

CITY OF MIAMI BEACH  
LANDSCAPE LEGEND

INFORMATION REQUIRED TO BE PERMANENTLY AFFIXED TO PLANS  
Zoning District GU Lot Area 19,750

NOTE: CALCULATIONS ARE BASED ON  
224 23rd Street Miami Beach, FL 33139  
AREA OF WORK NOT ON CONSOLIDATED PLAN LII

OPEN SPACE	REQUIRED/ ALLOWED	PROVIDED
A. Square feet of required Open Space as indicated on site plan: Lot Area = <u>19,750</u> s.f. x <u>20</u> % = <u>3,950</u> s.f.	<u>3,950</u>	<u>1,040</u>
B. Square feet of parking lot open space required as indicated on site plan: Number of parking spaces _____ x 10 s.f. parking space =	<u>0</u>	<u>0</u>
C. Total square feet of landscaped open space required: A+B=	<u>3,950</u>	<u>1,950</u>

LAWN AREA CALCULATION

A. Square feet of landscaped open space required	<u>3,950</u>	
B. Maximum lawn area (sod) permitted= <u>20</u> % x <u>3,950</u> s.f.	<u>790</u>	<u>0</u>

TREES

A. Number of trees required per lot or net lot acre, less existing number of trees meeting minimum requirements= <u>22</u> trees x <u>.56</u> net lot acres - number of existing trees=	<u>13</u>	<u>5</u>
B. % Natives required: Number of trees provided x 30% =	<u>4</u>	<u>5</u>
C. % Low maintenance / drought and salt tolerant required: Number of trees provided x 50%=	<u>7</u>	<u>5</u>
D. Street Trees (maximum average spacing of 20' o.c.) <u>150</u> linear feet along street divided by 20'=	<u>8</u>	<u>4</u>
E. Street tree species allowed directly beneath power lines: (maximum average spacing of 20' o.c.): _____ linear feet along street divided by 20'=		

SHRUBS

A. Number of shrubs required: Sum of lot and street trees required x 12=	<u>252</u>	<u>301</u>
B. % Native shrubs required: Number of shrubs provided x 50%=	<u>126</u>	<u>166</u>

LARGE SHRUBS OR SMALL TREES

A. Number of large shrubs or small trees required: Number of required shrubs x 10%=	<u>26</u>	<u>26</u>
B. % Native large shrubs or small trees required: Number of large shrubs or small trees provided x 50%=	<u>13</u>	<u>14</u>

MITIGATION CALCULATIONS:

TOTAL DBH REMOVED = 61"

TOTAL PALMS REMOVED = 3

MITIGATION REQUIRED:

(21) 2" DBH X 6' SPREAD X 12' HEIGHT OR

(10) 4" DBH X 8' SPREAD X 16' HEIGHT

PLUS (3) 2" DBH X 6' SPREAD X 12'

HEIGHT FOR PALM REMOVALS

OFF SITE PLANTING OPTION:

COORDINATE WITH CITY FOR

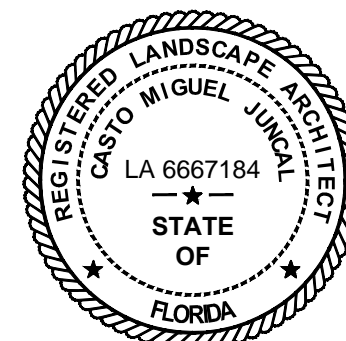
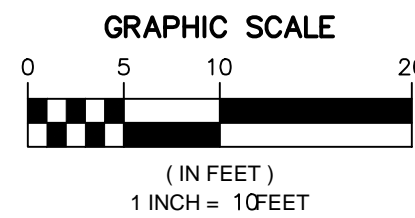
LOCATIONS.

TREE TRUST FUND OPTION:

\$21,000

PROVIDED:

(3) 4" DBH TREES, 16' HEIGHT



LANDSCAPE PLAN

**MAIMI BEACH ARTIST WORKFORCE HOUSING**  
224 23RD ST + 227 22ND ST MIAMI BEACH, FL 33139  
FOR: CITY OF MIAMI BEACH

**MILLER LEGG**  
South Florida Office 5747 N. Andrews Way  
Ft. Lauderdale, Florida 33309-2364  
954-438-7000 • Fax: 954-438-8664  
www.millerlegg.com

CERTIFICATE OF AUTHORIZATION: EB73181B6680LC0337		
A.P.	A.P.	C.M.J.
DES.	DWN.	CHK.
PROJECT / FILE NO: 21-00141		
DRAWING NO. L-2		
DATE DRAWN: 3/19/21		

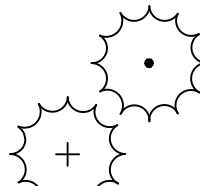
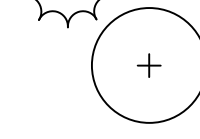



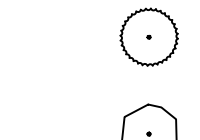
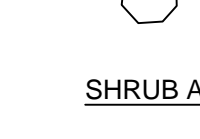
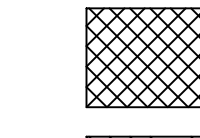

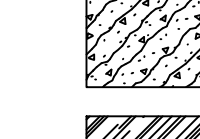



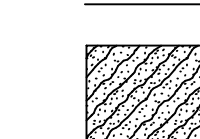
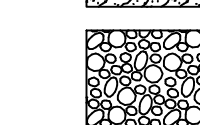
APPROVED: \_\_\_\_\_  
PLA REGISTRATION NO. 6667184 DATE: 4/2/2021

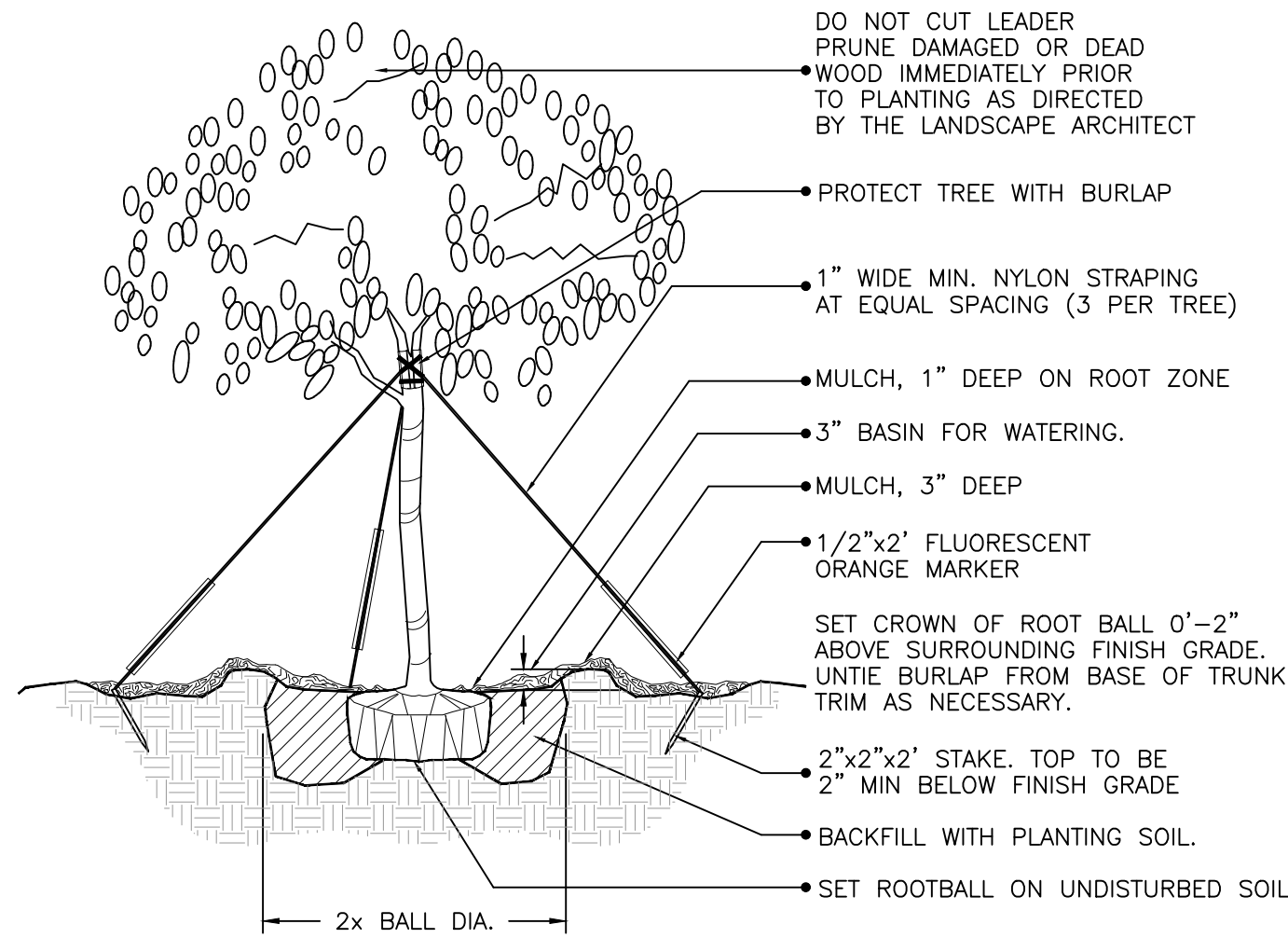


GENERAL NOTES:

1. PLANT MATERIAL: All plant material shall be Florida #1 or better as established by "Grades and Standards for Nursery Plants" of the state of Florida, Department of Agriculture.
2. All trees, shrubs and groundcovers shall be of the sizes as specified in the Plant List.
3. Quantities listed on the the Plant List are for estimating purposes. Contractor shall verify all quantities. Mulch, topsoil, fertilizer, etc. shall be included in the unit cost of the plants.
4. Where there is a discrepancy either in quantities, plant names, sizes or specifications between the plan or plant list, the plan takes precedence.
5. All planting beds and water basins for trees shall be covered with a 3" minimum depth of shredded eucalyptus or flormulch grade 'B' or better.
6. The Planting Plan shall be installed in compliance with all existing codes and applicable deed restrictions.
7. SOD: All areas not used for buildings, vehicular use areas, walks or planting beds shall be grassed. Grassing shall extend to any abutting street pavement edge and to the mean waterline of any abutting canal, lake or waterway.
8. PLANTING SOIL: All trees and shrubs shall be planted with a minimum of 12" topsoil around and beneath the rootball. Minimum topsoil shall be 6" for groundcover areas and 2" for sodded grass areas.
9. Planting soil to be a weed-free mixture of 50% sand, 40% muck, and 10% Canadian peat. All plant material to receive planting soil as per details.
10. Contractor is responsible for determining all utility locations and installing facilities so as to not conflict. All damage to existing utilities or improvements caused by Contractor shall be repaired at no additional cost to the Owner.
11. Contractor to notify "Sunshine State One Call of Florida, Inc." at 1-800-432-4770 Two Full Business Days prior to digging for underground utility locations.
12. Contractor shall be responsible for providing final grading of all associated planting areas.
13. After final grade, area to be raked to 6" depth and all rock and foreign inorganic materials removed and disposed of properly off-site.
14. All planting holes to be hand dug except where machine dug holes will not adversely affect or damage utilities or improvements (see note 8).
15. No plunging of any tree or palm will be accepted. All plants to be planted at the nursery grade or slightly higher.
16. Contractor shall stake 4 guy all trees and palms at time of planting as per the appropriate detail. Contractor is responsible for the maintenance and/or repair of all staking and guying during warranty period and removal 4 disposal of staking after establishment period.
17. Fertilizer for grass areas shall be NPK 16-4-8 @ 12.5 lbs/1000 s.f. or 545 lbs/acre. Nitrogen 50% slow release form 4 fertilizer to include secondary micronutrients.
18. SUBSTITUTIONS AND CHANGES: All substitutions and changes shall be approved in writing prior to installation. Any discrepancies between plans, site and specifications shall be brought to the immediate attention of the Landscape Architect, the owner and governing municipality.
19. WATERING: All plant material shall be watered in at time of planting in accordance with standard nursery practices. In addition, Contractor will continue watering of plant material until substantial completion and as needed thereafter for a period of 2 months.
20. All new plant material shall be guaranteed for 1 year from time of final acceptance of project. Any plant material not in a healthy growing condition will be replaced by the Contractor at no additional cost to the Owner within 10 days of notification. For all replacement plant material, the warranty period shall be extended an additional 45 days beyond the original warranty period. All trees that lean or are blown over, caused by winds less than 15 mph, will be re-set and braced by the Contractor at no additional cost to the Owner.
21. The successful bidder shall furnish to the Owner a unit price breakdown for all materials. The Owner may, at its discretion, add or delete from the materials utilizing the unit price breakdown submitted.
22. No plant material will be accepted showing evidence of cable, chain marks, equipment scars, or otherwise damaged.
23. Plant material will not be accepted when the ball of earth surrounding its roots has been cracked, broken or otherwise damaged.
24. Root-prune all trees a minimum of (8) weeks prior to planting.
25. All landscaped areas will be irrigated by an underground, automatic, rust-free irrigation system providing 100% coverage and 100% spray overlap. The system shall be maintained in good working order and designed to minimize water on impervious services and not overspray walkways. A rain sensor device shall be installed to override the irrigation cycle of the system when adequate rainfall has occurred.
26. All plant material planted within the sight distance triangle areas (see plan) shall provide unobstructed cross-visibility at a horizontal level between 30 inches and 8 feet above adjacent street grade.
27. No canopy trees shall be planted within 12 feet of a light pole. No palm species shall be planted within 6 feet of a light pole.
28. Ground cover plantings shall provide not less than 50 percent coverage immediately upon planting and 100 percent coverage within 6 months after planting.
29. Tree protection barricades shall be provided by Landscape Contractor around existing trees that may be impacted by the proposed construction. Prior to any construction a tree protection barricade inspection shall be conducted by the landscape architect, owner or governing municipality. Refer to landscape detail for tree preservation barricade fencing.
30. In all pedestrian areas, all trees and palms shall be maintained to allow for clear passage at an 8 foot clear trunk.
31. All landscape material shall be setback a minimum of 10' from any Fire Hydrant.

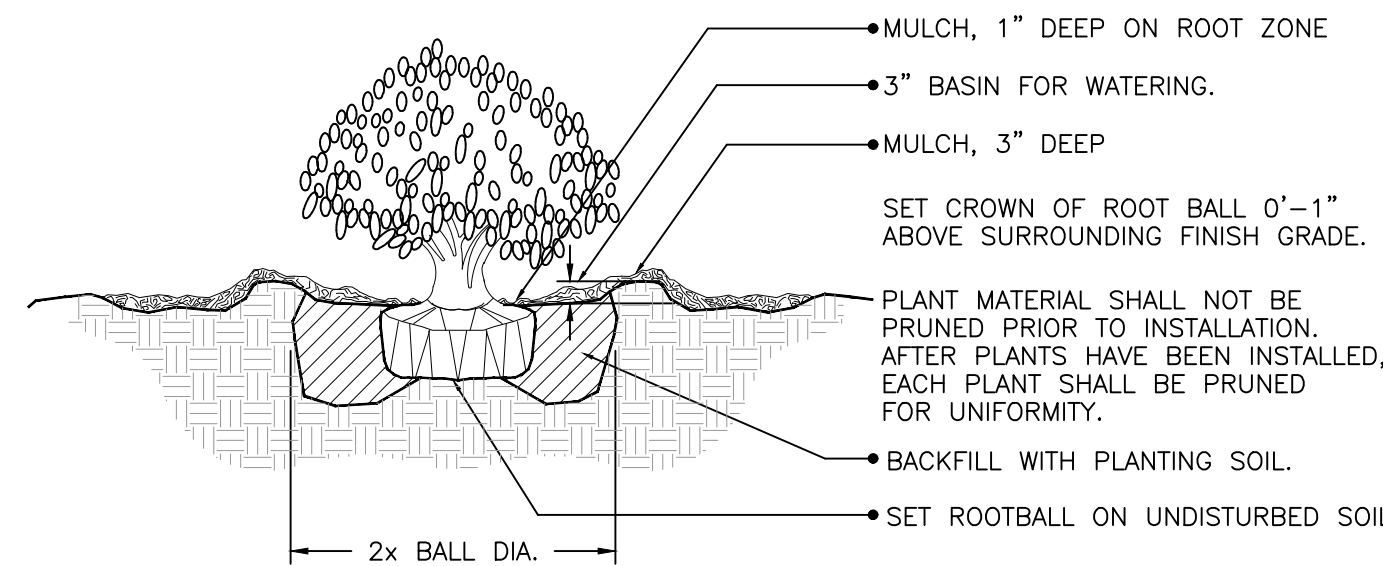
PLANT SCHEDULE

TREES	CODE	BOTANICAL / COMMON NAME	CONTAINER	CALIPER	SIZE	QTY	
	BA	Bambusa multiplex `Alphonse Karr` / Alphonse Karr Hedge Bamboo	Field Grown		14` OAH	4	
	EP	EXISTING PALM / REMAIN	TREE TO REMAIN			6	
	ET	EXISTING TREE / REMAIN	TREE TO REMAIN			5	
NATIVE TREES	CODE	BOTANICAL / COMMON NAME	CONTAINER	CALIPER	SIZE	QTY	
	LL	Lysiloma latisilqua / Wild Tamarind	Field Grown	4" DBH	16` OAH	3	
	TR	Thrinax radiata / Florida Thatch Palm	Field Grown		6` -8` OAH	5	
SHRUBS	CODE	BOTANICAL / COMMON NAME	CONT	HT		QTY	
	HAP	Hamelia patens / Firebush 6` ht. x 4` spr.	BUSH			14	
	POM	Podocarpus macrophyllus / Yew 6` ht x 4` spr	BUSH			12	
SHRUB AREAS	CODE	BOTANICAL / COMMON NAME	CONT	HEIGHT	SPACING	QTY	
	AGL	Aglaonema spp / Aglaonema Ultra Pink	3 GAL	18" HT.	24" o.c.	3	
	COD	Codiaeum variegatum / Croton	3 GAL	30" HT.	24" o.c.	19	
	FIC	Ficus microcarpa `Green Island` / Green Island Fig	3 GAL	18" HT.	18" o.c.	116	
	MUH	Muhlenbergia capillaris / Pink Muhly Grass	3 GAL	24" HT.	24" o.c.	18	
	NEP	Nephrolepis exaltata / Boston Fern	3 GAL	18" HT.	18" o.c.	121	
	TRI	Tripsacum floridanum / Florida Gamagrass	3 GAL	24" HT.	24" o.c.	27	
GROUND COVERS	CODE	BOTANICAL / COMMON NAME	CONT	HT	SPACING	SPACING	QTY
	OPH	Ophiopogon japonicus / Mondo Grass	6" POT	4" HT.		10" o.c.	345
	PRR	Polished River Rock	.			10" o.c.	46



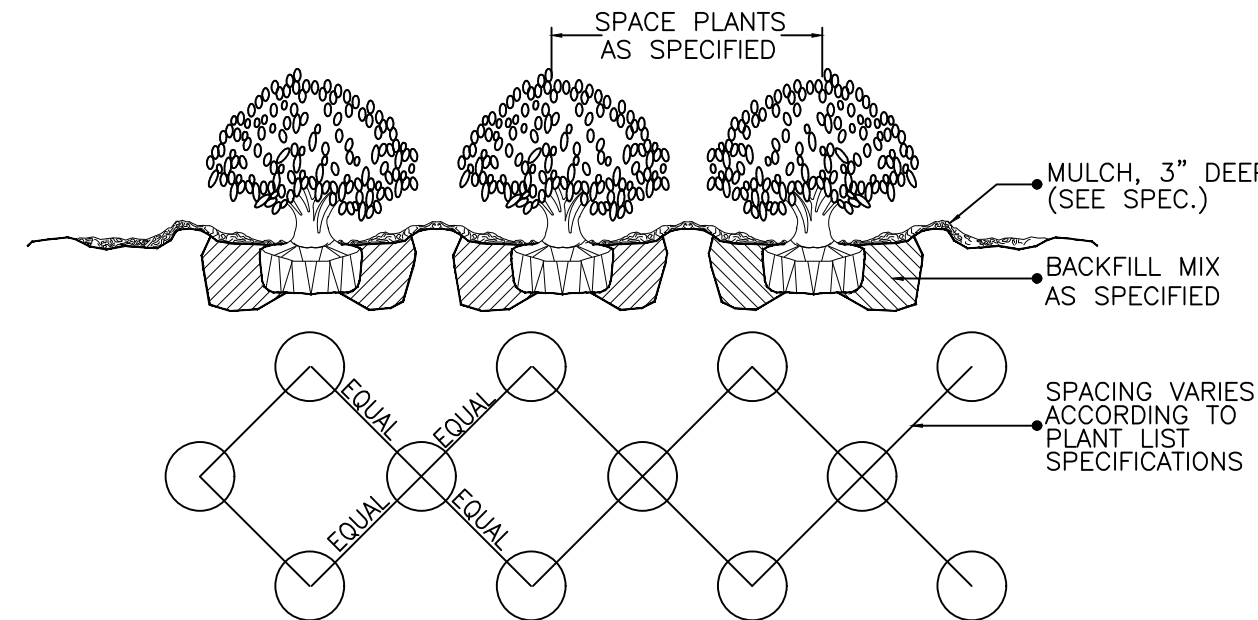
(2" cal. and over)  
LARGE TREE PLANTING DETAIL

NTS.



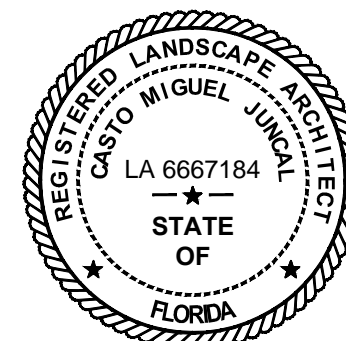
SHRUB PLANTING DETAIL

NTS.



SHRUB / GROUNDCOVER  
SPACING / PLANTING DETAIL

NTS.



APPROVED: \_\_\_\_\_ DATE: 4/2/2021  
FLA REGISTRATION NO. 6667184

**MIAMI BEACH ARTIST WORKFORCE HOUSING**  
224 23RD ST + 227 22ND ST MIAMI BEACH, FL 33139  
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DRAWING NO: L-3		
DATE DRAWN: 3/19/21		

LANDSCAPE DETAILS AND NOTES

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## **ARTIST WORKFORCE HOUSING ARBORIST REPORT**

### **REVIEW OF EXISTING TREES ON SITE**

On March 29, 2021, C. Miguel Juncal, ISA Certified Arborist FL-9341A arrived onsite to assess the tree found within the property located at 224 23rd STREET +227 22nd STREET MIAMI BEACH, FL 33139.

A review of the existing tree and an assessment of the tree specifications (species, condition, size, spread and height) was conducted. A tree disposition plan with locations of trees numbered overlaid on a proposed site plan is provided as reference. This Silverbuttonwood is in fair condition. There are no signs of major damage or overall health concerns. Canopy was observed from the ground and no root exploration was provided.

### **CONSTRUCTION SPECIFICATIONS**

- Trenching and digging in the soil near trees can cut roots, which in turn can damage the tree resulting in tree decline or the tree falling over.
- Root pruning of non-surface roots shall occur no closer to the trunk than a distance equal to 3 times the trunk diameter, preferably 5 times the trunk diameter (critical root zone).
- Impacts, if any, from pruning roots can depend on several factors. Damage typically increases with more cuts, bigger cuts, and cuts made closer to the trunk. Even cutting small (less than one-half inch) roots under or outside the edge of the canopy for long stretches can cut off water supply to the tree. This can cause the tree to decline or die during the next several years.

Note: Arborists cannot detect every condition that could possibly lead to the structural failure of a tree. No tree can be deemed safe and risk free. Deficiencies are often hidden within trees, below ground or not clearly visible from the ground. Trunk injuries or improper pruning cuts can result in decay inside the trunk. Arborists cannot guarantee that a tree will be healthy, safe or adequately protected under all circumstances or for a specified period. Likewise, remedial, protective and mitigating treatments and recommendations cannot be guaranteed.

The following assessment is based on the opinion of the Arborist:



Casto Miguel Juncal  
ISA Certified Arborist  
FL-9341A



**SUMMARY BELOW INCLUDES TREE REVIEWED ON 3/29/21**

**Tree Number - 20**

**Species** - Silver Buttonwood – *Conocarpus erectus* ‘Sericeus’

**DBH** - 13 (in) **Height** - 24 (ft) **Spread (Diameter)** – 36 (ft)

**Overall Condition** – Fair



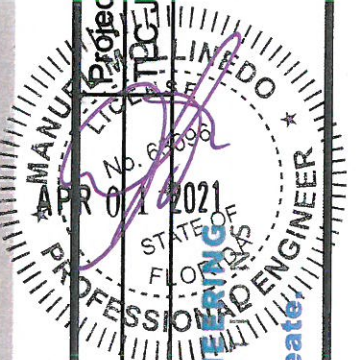
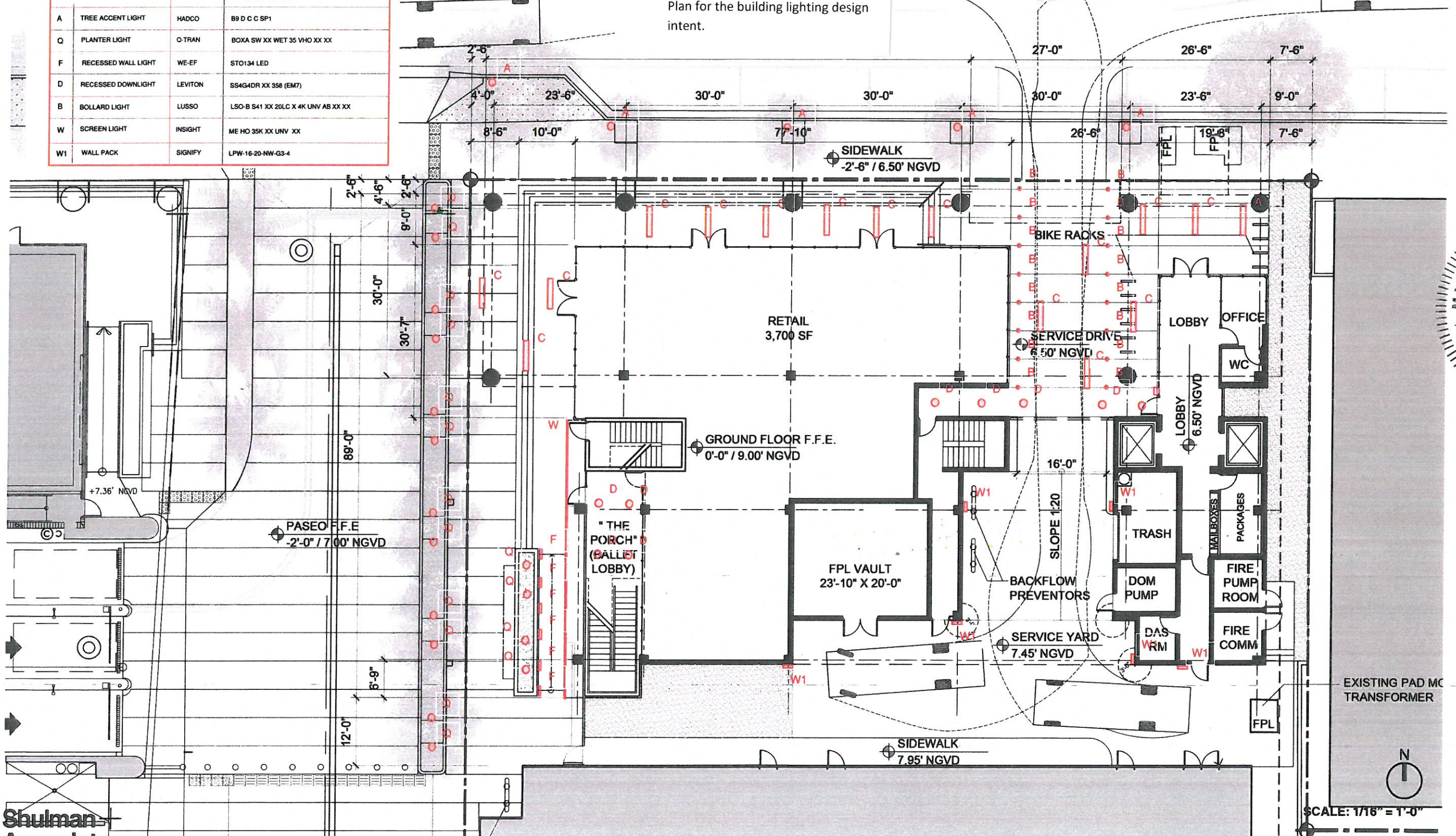


SITE LUMINAIRE SCHEDULE		
C	CEILING PATH LIGHT	FINELITE HP 4 WL D 4FT S 835 F
A	TREE ACCENT LIGHT	HADCO B9 D C C SP1
Q	PLANTER LIGHT	Q-TRAN BOXA SW XX WET 35 VHO XX XX
F	RECESSED WALL LIGHT	WE-EF STO134 LED
D	RECESSED DOWNLIGHT	LEVITON SS4G4DR XX 358 (EM7)
B	BOLLARD LIGHT	LUSO LSO-B S41 XX 20LC X 4K UNV AB XX XX
W	SCREEN LIGHT	INSIGHT ME HO 35K XX UNV XX
W1	WALL PACK	SIGNIFY LPW-16-20-NW-G3-4

This plan should be reviewed for Landscape lighting only.

See Architectural Reflected Ceiling Plan for the building lighting design intent.

# A-1.00 GROUND FLOOR PLAN



**SITE LGT**

Sketch No.:  
5757 Blue Lagoon Drive  
Suite 400  
Miami, FL 33126  
P 305.266.6553  
tlc-engineers.com  
COA 15

Project: COMB WORKFORCE HOUSING  
Scale: NTS  
TLC Job No.: 620079

Revision: GROUND LEVEL - SITE LIGHTING  
Supplement to Drawing No.: SITE LIGHTING  
Date: 04 / 01 / 21  
Design: TLC  
Check: TLC







PROJECT:

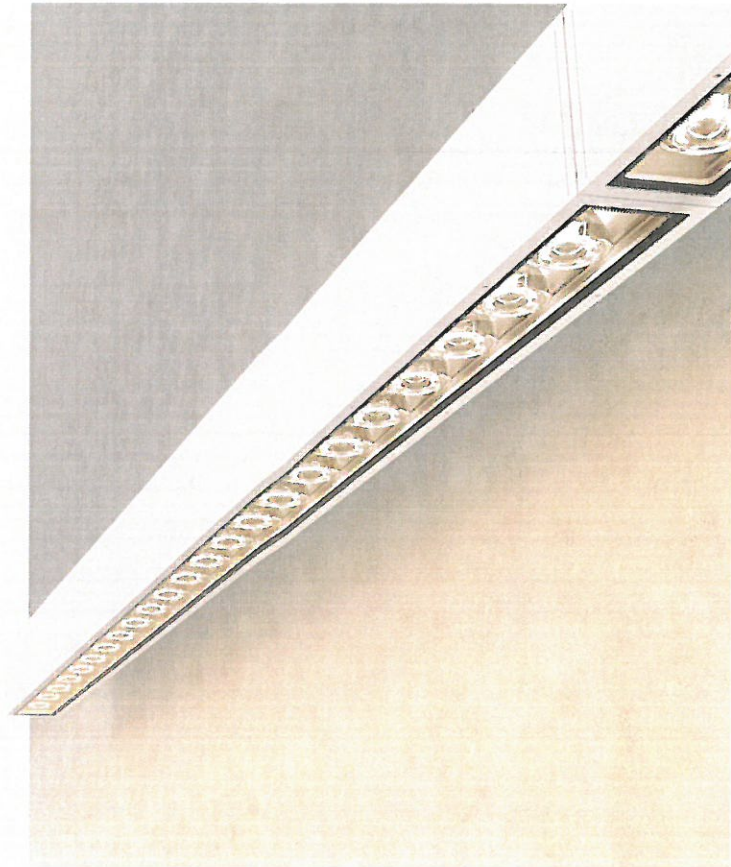
TYPE:

CATALOG #: ME-

- UNV -

### PROFILE

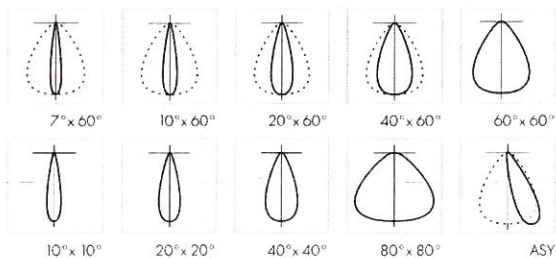
OUTPUT	LO (3.5W/FT), MO (9.0 W/FT), HO (17.0 W/FT)
OPTICS	7°X60°, 10°X10°, 10°X60°, 20°X20°, 20°X60°, 40°X40°, 40°X60°, 60°X60°, 80°X80°, ASY
CRI	82
CCT	27K, 30K, 35K, 40K, RED, GREEN, BLUE, AMBER
PERFORMANCE	UP TO 117530 PEAK CANDELA
VOLTAGE	UNIVERSAL 110-208V, 277V
POWER	INTEGRAL POWER SUPPLY
CONTROL	0-10V, DMX, LUTRON HI-LUME
DIMENSIONS	2.60" X 2.00"
WEIGHT	2.75 LB (1.25 KG) PER FOOT
HOUSING	PRECISION EXTRUDED ALUMINUM
LENS	HIGH DENSITY TEMPERED GLASS
FINISH	HIGH DURABILITY POWDER COATING
OPERATING TEMP	-20° C TO 50° C
WARRANTY	5-YEAR LIMITED
LUMEN MAINTENANCE	75,000 HOURS
CERTIFICATION	ETL AND cETL FOR IP67, IK07, 3G OPTIONS



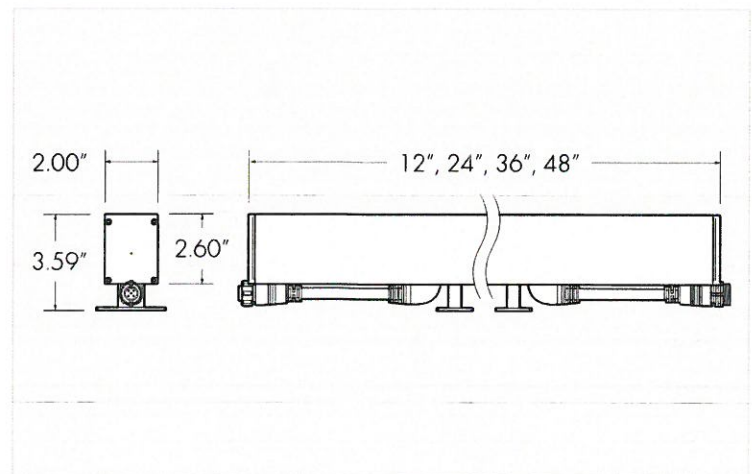
### STANDARD FINISHES



### OPTICS



### PROFILE

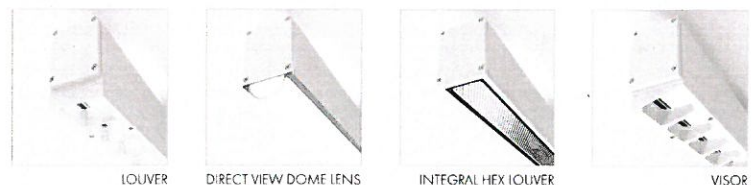


### PERFORMANCE SAMPLE

[go to performance data >](#)

40K, HO, 48"	10°X 10°	10°X 60°	20°X 20°	80°X 80°	100°
LUMENS	6316	5417	6475	6161	6459
CANDELA	117530	19943	52385	3960	2739
EFFICACY	91.2 LM/W	773 LM/W	93.3 LM/W	88.8 LM/W	94.4 LM/W

### OPTIONS



PROJECT:

TYPE:

CATALOG #: ME-

- UNV -

## SPECIFICATION

ME						UNV			
1	2	3	4	5	6	7	8	9	10
separate options with dashes									
<b>1</b> FIXTURE			<b>4</b> OPTIC			<b>5</b> MOUNTING		<b>9</b> FINISH	
MEDLEY EXTERIOR	ME		7° X 60°	760		SURFACE MOUNT	SM	TEXTURED WHITE	TW
			10° X 10°	1010		3G Ansi C136.3 rated		TEXTURED BLACK	TB
<b>2</b> WATTAGE			10° X 10° optic is intended for a 6" fixture setback from the surface			GROUND MOUNT	GM	TEXTURED BRONZE	TBR
LOW OUTPUT	LO		10° X 60°	1060		EXTENDED ARM	EA-X	TEXTURED LIGHT BRONZE	TLB
3.5 W/FT			20° X 20°	2020		X = extended arm length specify 6", 12" or 18"		TEXTURED GRAY	TG
MEDIUM OUTPUT	MO		20° X 60°	2060		6" arm is 3G Ansi C136.3 rated		TEXTURED SANDSTONE	TS
9.0 W/FT			40° X 40°	4040		EXTENDED ARM, BACK	EAB-X	ANODIZED ALUMINUM	AA
HIGH OUTPUT	HO		40° X 60°	4060		X = extended arm length specify 6", 12" or 18"		includes CRF finish	
170 W/FT			60° X 60°	6060		SURFACE BACK MOUNT	SMB	CUSTOM COLOR	CC
<b>3</b> CCT			80° X 80°	8080		FIXED MOUNT	FM	contact factory for custom color	
2700K	27K		100° X 100°	100		END MOUNT	EM		
3000K	30K		ASYMMETRIC DIRECT	AD		not intended for continuous run applications		<b>10</b> OPTIONS	
3500K	35K		Direct = down-light. Asymmetric distribution is intended for a wall height of 10FT to 12FT with the fixture setback 18" from the wall			STAKE MOUNT	STM	LOUVER	LV
4000K	40K		ASYMMETRIC INDIRECT	AI				field installable snooted louver	
RED	R		Indirect = up-light. Asymmetric distribution is intended for a wall height of 10FT to 12FT with the fixture setback 18" from the wall		<b>6</b> FIXTURE LENGTH			LLF of 10% - 15% depending on color	
GREEN	G					12.00"	12	VISOR	VS
BLUE	B					24.00"	24	field installable visored louver	
AMBER	A					36.00"	36	LLF of 10% - 15% depending on color	
						48.00"	48	INTEGRAL HEX LOUVER	IHL
						nominal lengths		DIRECT VIEW DOME LENS	DVD
								field installable	
								WHITE LENS	WL
								LLF OF 30%	
								only available with 100° X 100°	
						<b>7</b> VOLTAGE		CONCEALED WIRING	CW
						UNIVERSAL	UNV	WHITE CABLING	WC
						110-208V, 277V		white cabling is standard with textured white finish	
								CORROSION RES. FINISH	CRF
						<b>8</b> CONTROL OPTIONS		recommended for coastal or extreme exterior environments	
						0-10V DIMMING	DIM		
						LUTRON HI-LUME	L3DA		
						Hi-lume 1% EcoSystem. Available with 36" and 48" fixtures in LO and MO outputs only.			
						DMX DIMMING	DMX		
						DMX control system must be ordered separately			
						DMX programming kit required, see below.			
						See DMX Guide for Wireless DMX options.			

## CONTROL &amp; WIRING ORDER OPTIONS

DMX DISTRIBUTION & PROGRAMMING KIT - REQUIRED FOR DMX DIMMING  
DMX/RDM DISTRIBUTION KIT (4 OUTPUTS) - IP67 CDS-RDM  
DMX/RDM DISTRIBUTION KIT consists four outputs. Each output is limited to (1) run per output, up to 32 fixtures max. Four terminators are included for end of line termination.

[go to dmx guide >](#)

EXTERIOR LEADER CABLE  
5.0 FT LEADER CABLE LC-5  
Textured white fixtures are provided with white cabling standard. All other fixture finishes are provided with black cabling unless white cabling (WC) option is ordered

[go to cable guide >](#)

EXTERIOR JUMPER CABLES  
1.0 FT JUMPER CABLE JC-1  
2.0 FT JUMPER CABLE JC-2  
5.0 FT JUMPER CABLE JC-5  
10.0 FT JUMPER CABLE JC-10  
25.0 FT JUMPER CABLE JC-25  
Required if fixtures are not mounted in an end-to-end continuous manner and for line voltage only  
Black cables are standard unless White Cabling (WC) or Textured White (TW) option is selected



PROJECT:

TYPE:

CATALOG #: ME- - - - - UNV- - -

## PERFORMANCE

CCT AND LENGTH	OPTIC	LOW OUTPUT (3.5 W/FT)			MEDIUM OUTPUT (9.0 W/FT)			HIGH OUTPUT (17.0 W/FT)		
		DELIVERED LUMENS	LUMINARE EFFICACY	PEAK CANDELA	DELIVERED LUMENS	LUMINARE EFFICACY	PEAK CANDELA	DELIVERED LUMENS	LUMINARE EFFICACY	PEAK CANDELA
4000K 24"	7° X 60°	998 LM	107.0 LM/W	3662	1685 LM	110.0 LM/W	6189	3366 LM	98.0 LM/W	12363
	10° X 10°	932 LM	100.5 LM/W	17011	1566 LM	103.0 LM/W	28686	3158 LM	91.2 LM/W	58765
	10° X 60°	804 LM	86.6 LM/W	2905	1348 LM	88.4 LM/W	4871	2709 LM	77.3 LM/W	9972
	20° X 20°	948 LM	102.1 LM/W	7658	1601 LM	102.4 LM/W	12983	3238 LM	93.3 LM/W	26193
	20° X 60°	862 LM	92.8 LM/W	1893	1451 LM	96.2 LM/W	3207	2914 LM	84.6 LM/W	6379
	40° X 40°	1001 LM	108.0 LM/W	1395	1688 LM	111.0 LM/W	2338	3392 LM	98.8 LM/W	4733
	40° X 60°	896 LM	96.7 LM/W	724	1497 LM	98.6 LM/W	1211	3039 LM	88.1 LM/W	2470
	60° X 60°	993 LM	107.1 LM/W	882	1666 LM	109.3 LM/W	1485	3354 LM	97.7 LM/W	2999
	80° X 80°	912 LM	98.2 LM/W	585	1525 LM	100.1 LM/W	976	3081 LM	88.8 LM/W	1980
	100° X 100°	620 LM	86.8 LM/W	263	1964 LM	93.3 LM/W	829	3230 LM	94.4 LM/W	1370
	ASY	888 LM	96.3 LM/W	3134	1473 LM	97.8 LM/W	5199	2890 LM	88.2 LM/W	9369
4000K 36"	7° X 60°	1496 LM	107.0 LM/W	5492	2527 LM	110.0 LM/W	9283	5048 LM	98.0 LM/W	18544
	10° X 10°	1398 LM	100.5 LM/W	25516	2349 LM	103.0 LM/W	43029	4737 LM	91.2 LM/W	88148
	10° X 60°	1205 LM	86.6 LM/W	4357	2022 LM	88.4 LM/W	7306	4063 LM	77.3 LM/W	14957
	20° X 20°	1421 LM	102.1 LM/W	11486	2402 LM	102.4 LM/W	19474	4856 LM	93.3 LM/W	39289
	20° X 60°	1292 LM	92.8 LM/W	2840	2177 LM	96.2 LM/W	4810	4371 LM	84.6 LM/W	9569
	40° X 40°	1502 LM	108.0 LM/W	2093	2531 LM	111.0 LM/W	3506	5088 LM	98.8 LM/W	7100
	40° X 60°	1344 LM	96.7 LM/W	1086	2245 LM	98.6 LM/W	1817	4559 LM	88.1 LM/W	3704
	60° X 60°	1489 LM	107.1 LM/W	1322	2499 LM	109.3 LM/W	2228	5031 LM	97.7 LM/W	4499
	80° X 80°	1368 LM	98.2 LM/W	877	2287 LM	100.1 LM/W	1464	4621 LM	88.8 LM/W	2970
	100° X 100°	929 LM	86.8 LM/W	394	2946 LM	93.3 LM/W	1244	4844 LM	94.4 LM/W	2054
	ASY	1332 LM	96.3 LM/W	4700	2209 LM	97.8 LM/W	7798	4335 LM	88.2 LM/W	14053
4000K 48"	7° X 60°	1995 LM	107.0 LM/W	7323	3369 LM	110.0 LM/W	12377	6731 LM	98.0 LM/W	24725
	10° X 10°	1864 LM	100.5 LM/W	34021	3132 LM	103.0 LM/W	57372	6316 LM	91.2 LM/W	117530
	10° X 60°	1607 LM	86.6 LM/W	5809	2696 LM	88.4 LM/W	9741	5417 LM	77.3 LM/W	19943
	20° X 20°	1895 LM	102.1 LM/W	15315	3202 LM	102.4 LM/W	25965	6475 LM	93.3 LM/W	52385
	20° X 60°	1723 LM	92.8 LM/W	3786	2902 LM	96.2 LM/W	6413	5828 LM	84.6 LM/W	12758
	40° X 40°	2002 LM	108.0 LM/W	2790	3375 LM	110.7 LM/W	4675	6784 LM	98.8 LM/W	9466
	40° X 60°	1792 LM	96.7 LM/W	1448	2993 LM	98.6 LM/W	2422	6078 LM	88.1 LM/W	4939
	60° X 60°	1985 LM	107.1 LM/W	1763	3332 LM	109.3 LM/W	2970	6708 LM	97.7 LM/W	5998
	80° X 80°	1824 LM	98.2 LM/W	1169	3049 LM	100.1 LM/W	1952	6161 LM	88.8 LM/W	3960
	100° X 100°	1239 LM	86.8 LM/W	525	3928 LM	93.3 LM/W	1658	6459 LM	94.4 LM/W	2739
	ASY	1776 LM	96.3 LM/W	6267	2945 LM	97.8 LM/W	10397	5780 LM	88.2 LM/W	18787

PROJECT:

TYPE:

CATALOG #:

ME-

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-

- UNV -

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MAXIMUM FIXTURES PER RUN

FIXTURE	LOW OUTPUT (3.5 W/FT)		MEDIUM OUTPUT (9.0 W/FT)		HIGH OUTPUT (17.0 W/FT)	
	120V	277V	120V	277V	120V	277V
12.00"	356	824	138	320	74	170
24.00"	178	412	69	160	37	85
36.00"	119	274	46	107	24	56
48.00"	89	206	35	80	18	42



PROJECT:

TYPE:

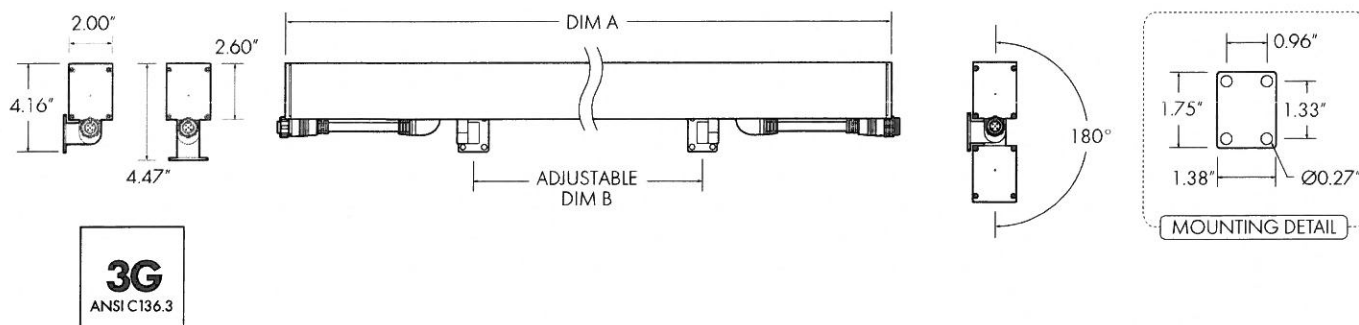
CATALOG #: ME-

- UNV -

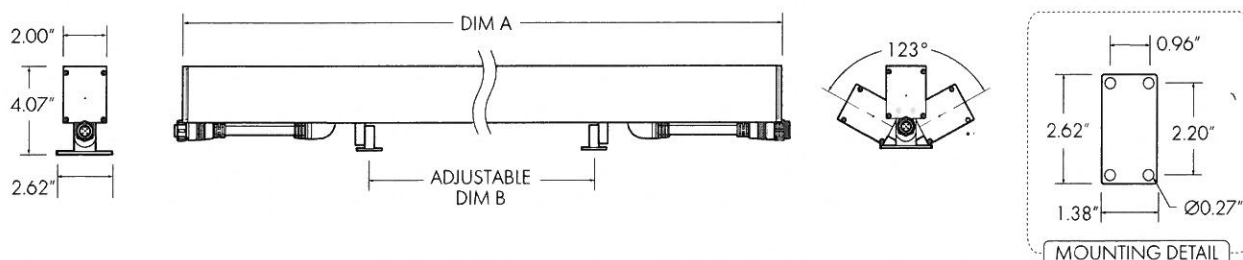
## DIMENSIONS

	12.00"	24.00"	36.00"	48.00"
DIM A	12.30"	24.05"	35.80"	47.55"
DIM B	9.28"	4.00" MIN   6.00" MAX	12.00" MIN   18.00" MAX	18.00" MIN   30.00" MAX

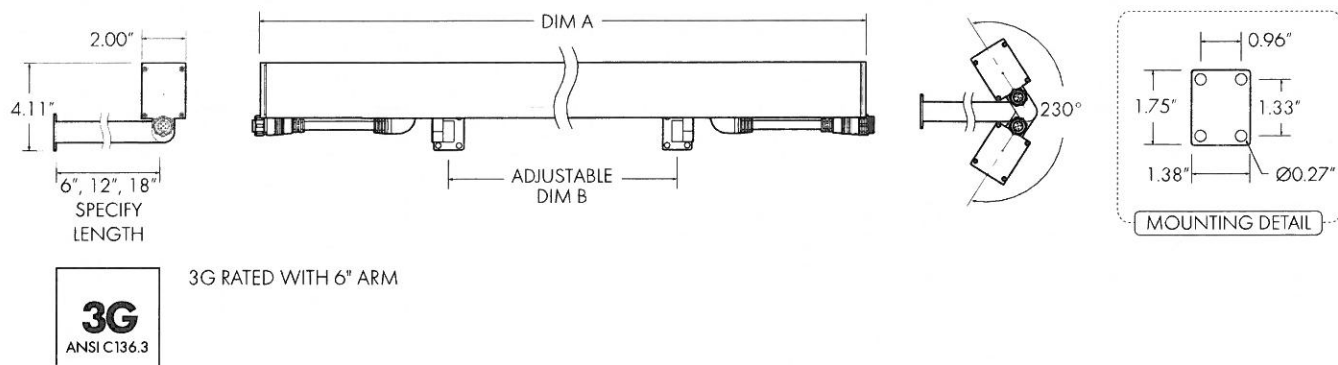
## SURFACE MOUNT (SM)



## GROUND MOUNT (GM)



## EXTENDED ARM (EA-X)



PROJECT:

TYPE:

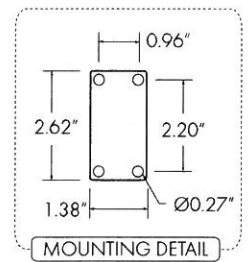
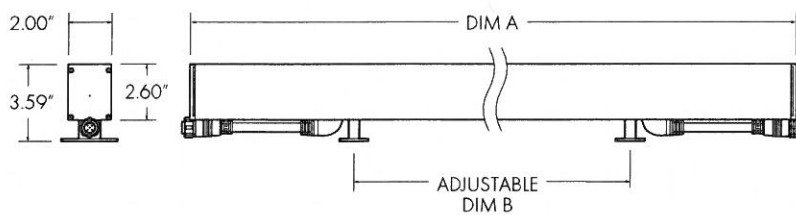
CATALOG #: ME-

- UNV -

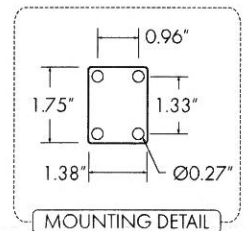
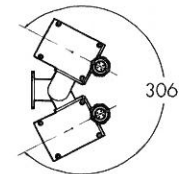
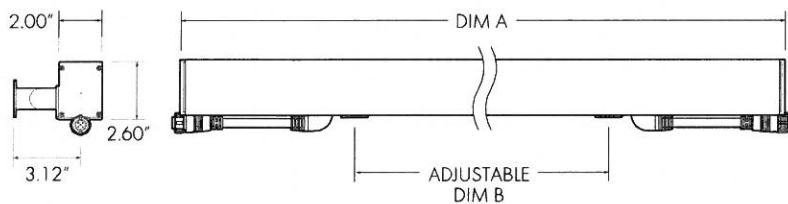
## DIMENSIONS

	12.00"	24.00"	36.00"	48.00"
DIM A	12.30"	24.05"	35.80"	47.55"
DIM B	9.28"	4.00" MIN   6.00" MAX	12.00" MIN   18.00" MAX	18.00" MIN   30.00" MAX
	6.00" MIN   8.00" MAX	4.00" MIN   6.00" MAX	12.00" MIN   18.00" MAX	18.00" MIN   30.00" MAX

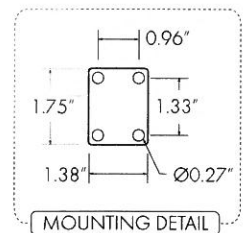
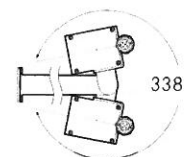
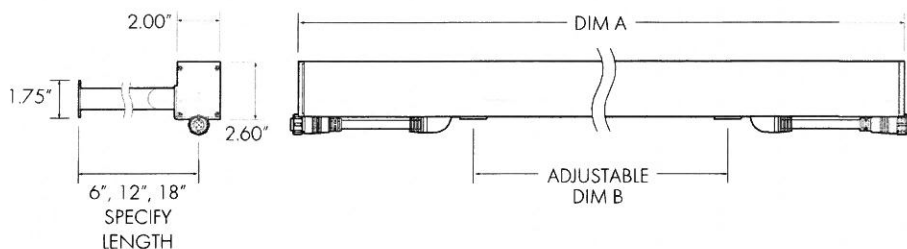
## FIXED MOUNT (FM)



## SURFACE, BACK MOUNT (SMB)



## EXTENDED ARM, BACK MOUNT (EAB-X)



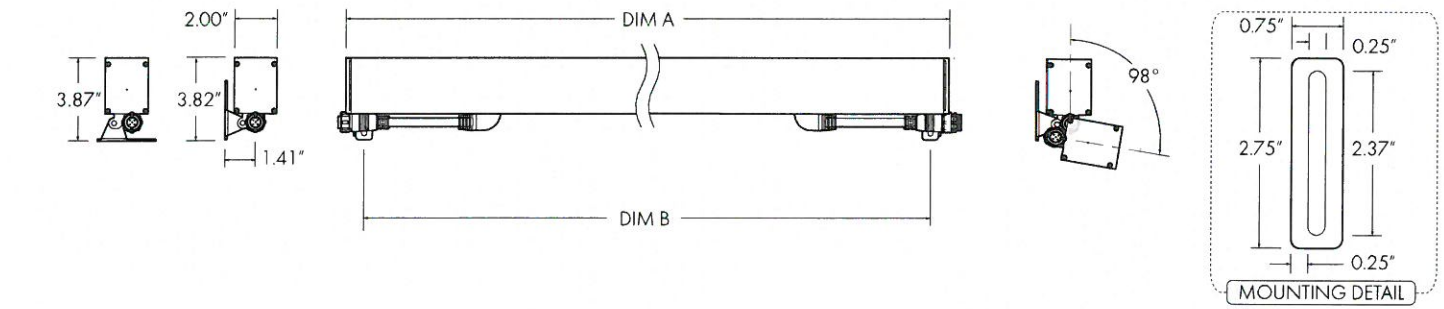


PROJECT:	TYPE:	CATALOG #:	ME-	-	-	-	-	UNV-	-	-
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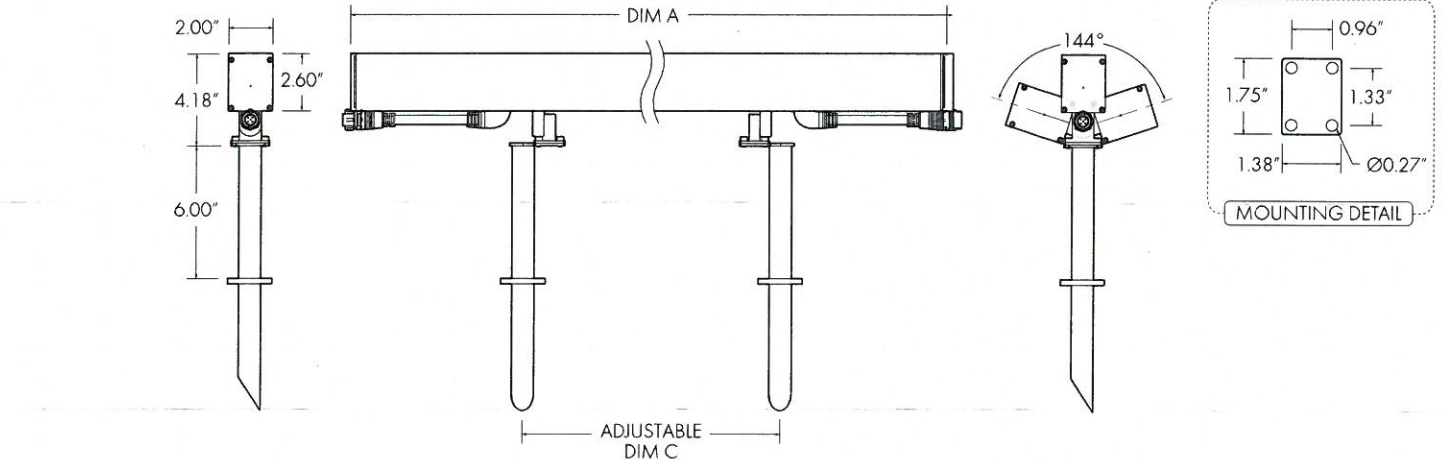
DIMENSIONS

	12.00"	24.00"	36.00"	48.00"
DIM A	12.30"	24.05"	35.80"	47.55"
DIM B	10.56"	4.00" MIN   6.00" MAX	12.00" MIN   18.00" MAX	18.00" MIN   30.00" MAX
	11.65	22.31"	34.06"	45.81"

END MOUNT (EM)



STAKE MOUNT



PROJECT:

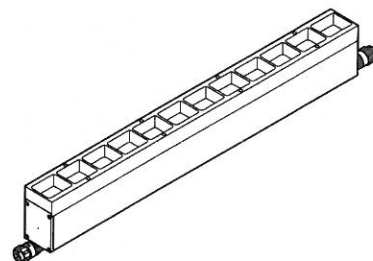
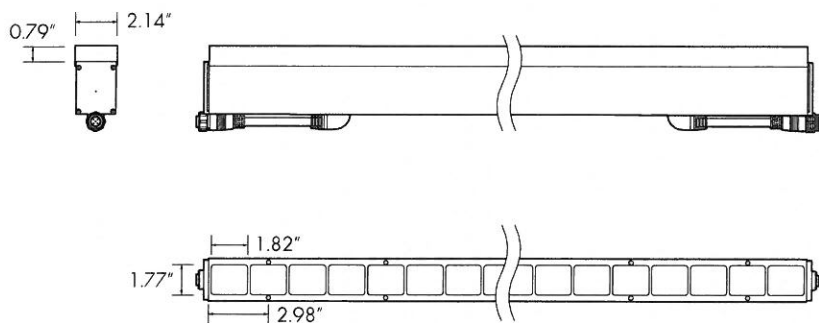
TYPE:

CATALOG #: ME-

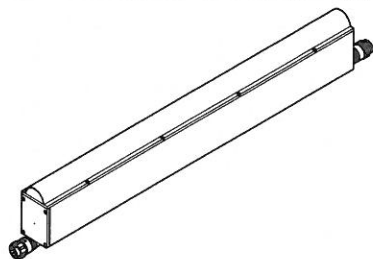
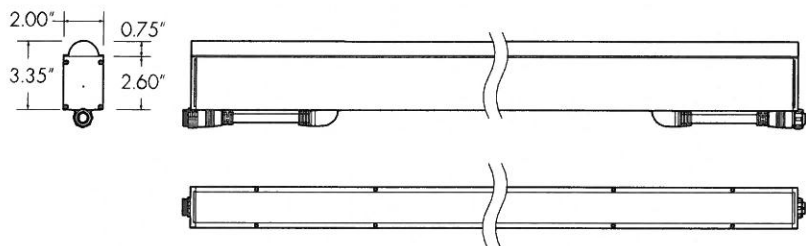
- UNV -

## ACCESSORIES

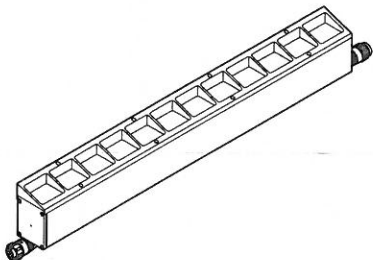
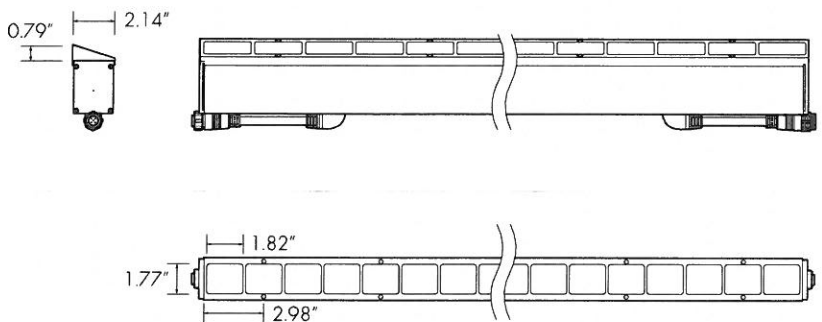
### LOUVER (LV)



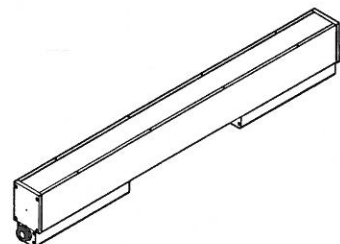
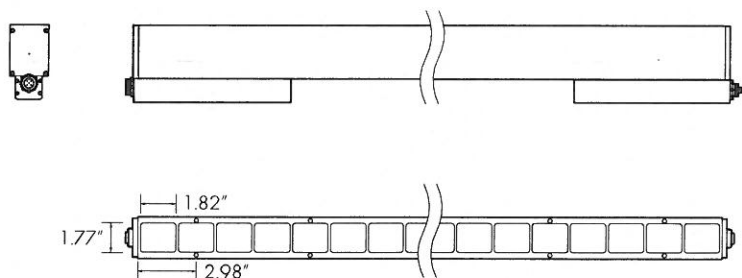
### DIRECT VIEW LENS (DV)



### VISOR (VS)



### CONCEALED WIRING (CW)





PROJECT: \_\_\_\_\_

TYPE: \_\_\_\_\_

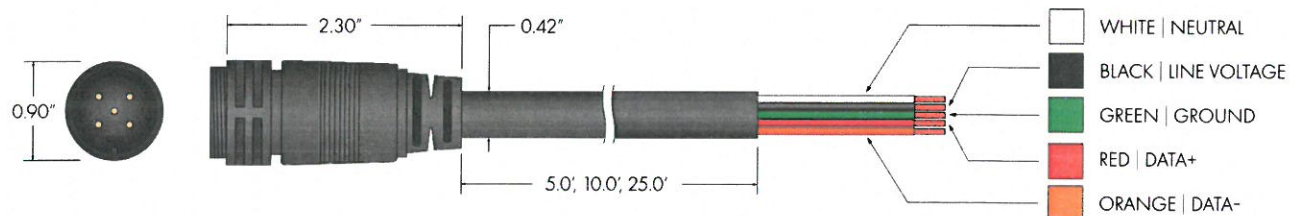
CATALOG #: ME- \_\_\_\_\_

- UNV - \_\_\_\_\_

### CABLES

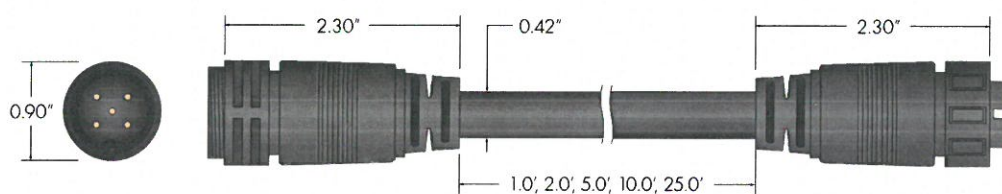
#### AC LEADER (LC-X)

WHITE/BLACK | 5x16AWG | 105°C | 300V | IP67



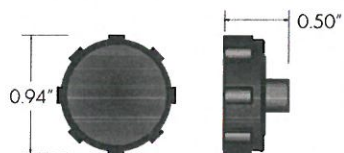
#### AC JUMPER (JC-X)

WHITE/BLACK | 5x16AWG | 105°C | 300V | IP67



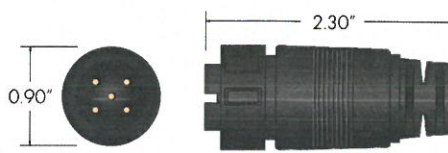
#### AC CAP (EL11447)

WHITE/BLACK | 105°C | 300V | IP67



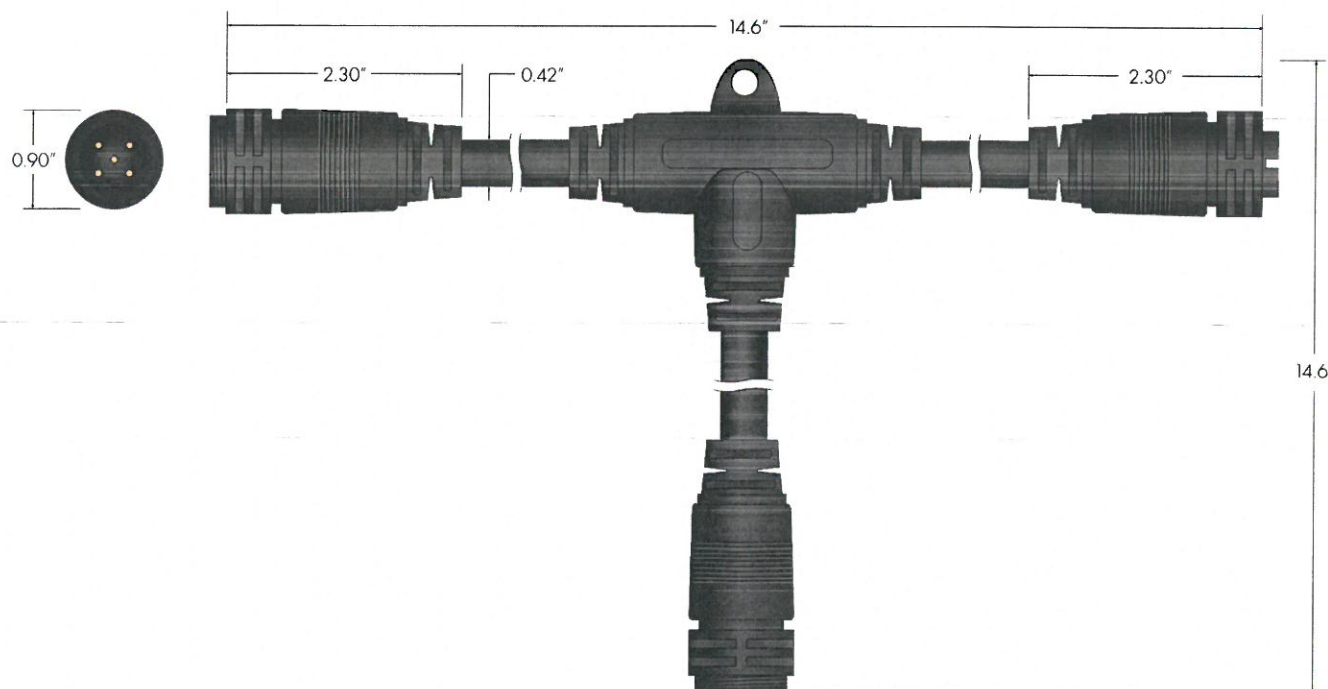
#### AC TERMINATOR (EL11586)

WH/BL | 105°C | 300V



#### AC T-CONNECTOR (ACT)

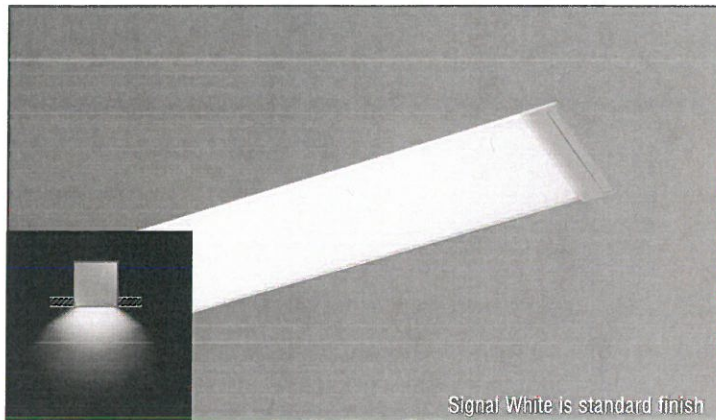
WHITE/BLACK | 5x16AWG | 105°C | 300V | IP67





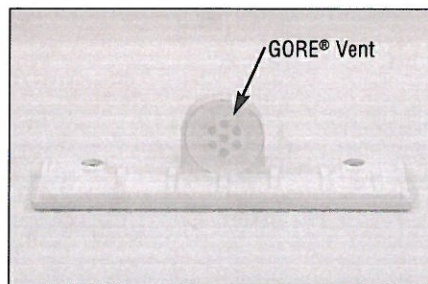
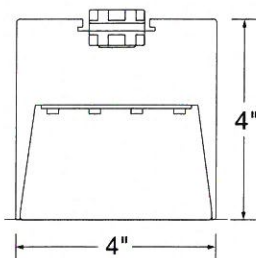
# FINELITE

## High Performance 4" Wet Location (HP-4 WL) Recessed

Date Project Type Comments 

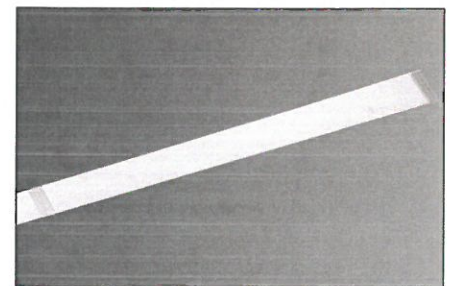
### DESCRIPTION

High Performance 4" Aperture Wet Location Recessed (HP-4 WL R) is a linear LED luminaire listed for wet location and IP65 and IK10 rated. HP-4 WL R delivers uniform illumination with a clean linear aesthetic free of visible attachment hardware.



### INTEGRATED GORE® PROTECTIVE VENT

Protective vents are integrated at endcaps and joints to equalize pressure, reduce condensation and protect internal fixture components against water, salts, corrosive liquids and particulates.



### INDEPENDENT OR CONTINUOUS ROWS

2', 3', 4', 5', 6', 7', and 8' section lengths. Independent and continuous rows available. More information on page 2.

### ORDERING GUIDE

Sample Number: HP-4 WL R - 32' - S - 835 - F - 120V - SC - VF



Finelite HP-4 WL R

Length (Minimum 2', increments of 1', standard)

Light Output (S - Standard, B - Boosted Standard, H - High, V - Very High)

LED CRI/CCT (830 - 80 CRI min, 3000K 930 - 90 CRI min, 3000K;

835 - 80 CRI min, 3500K 935 - 90 CRI min, 3500K;

840 - 80 CRI min, 4000K 940 - 90 CRI min, 4000K)

Downlight Option (F - Flush (standard))

Voltage (120V, 277V, 347V)

Circuiting (SC - Single Circuit)<sup>1</sup>

Ceiling Type<sup>2</sup> (SF - Spackle Flange<sup>3</sup>, VF - Visible Flange)

<sup>1</sup> Contact factory for switching options.

<sup>2</sup> Not Suitable for Vertical Mounting.

<sup>3</sup> See page 2 for spackle flange depth options on ordering.

A brand of Legrand

Finelite, Inc. • 30500 Whipple Road • Union City, CA 94587-1530 • (510) 441-1100 • Fax: (510) 441-1510 • [www.finelite.com](http://www.finelite.com)

Due to continuing product improvements, Finelite reserves the right to change specifications without notice. Please visit [www.finelite.com](http://www.finelite.com) for most current data.

# FINELITE

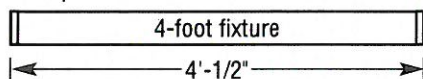
## High Performance 4" Wet Location (HP-4 WL) Recessed

### INDEPENDENT OR CONTINUOUS ROWS

2', 3', 4', 5', 6', 7', and 8' section lengths. Independent and continuous rows available.

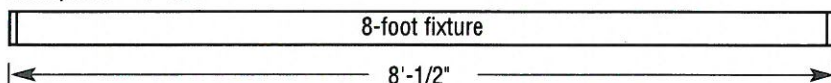
For **independent luminaires** add 1/4" for each endcap for overall length.

Example: 4' = 4'-1/2"



Endcap and Joints = 1/4"

Example: 8' = 8'-1/2"



For **continuous rows** add 1/4" for each endcap and 1/4" for each joint for overall length.

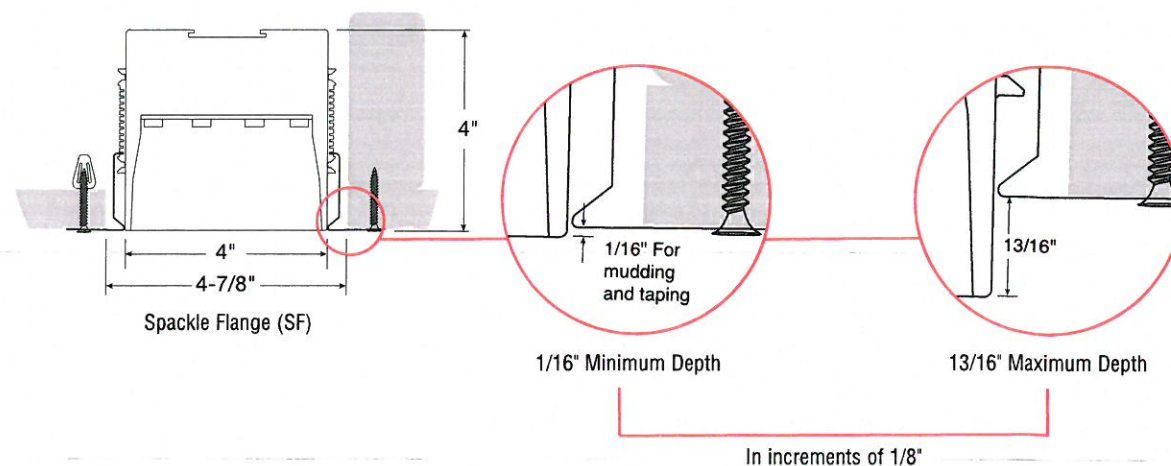
Example: 24' = 24'-1"



Above drawing is not to scale.

### SPACKLE FLANGE DEPTH OPTIONS

Spackle Flange can be specified to various depths to accommodate different building materials and thicknesses. The minimum depth is 1/16" and can be specified in 1/8" increments up to a maximum depth of 13/16".





# FINELITE

## High Performance 4" Wet Location (HP-4 WL) Recessed

### PHOTOMETRY - Recessed

Very High Output - 4' Luminaire

Efficacy (Lumen per watt): 94

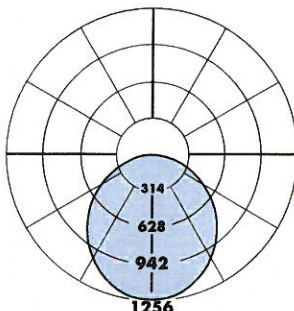
Total luminaire output: 3456 Lumens (864 lumens/foot)

36.9 Watts (9.2 watts/foot)

Peak Candela Value: 1256 @ 0°

CCT: 3500K

ITL LM79 Report 90390



CANDLEPOWER SUMMARY						
	0.0	22.5	45	67.5	90	Flux
0	1256	1256	1256	1256	1256	
5	1250	1250	1250	1249	1249	119
15	1203	1195	1199	1199	1195	338
25	1107	1095	1103	1098	1094	507
35	976	964	968	960	957	603
45	814	804	804	797	792	618
55	629	622	620	612	607	553
65	430	426	422	417	414	417
75	226	225	223	222	224	237
85	52	54	55	56	57	64
90	0	0	0	0	0	

Total Light Output, 3500K, 80 CRI (Lumens) - 4' Luminaire			
S*	B*	H*	V**
1415	1779	2688	3456

Light Output, 3500K, 80 CRI (Lumens Per Foot)			
S*	B*	H*	V**
354	445	672	864

Power (Watts Per Foot)			
S*	B*	H*	V**
3.6	4.6	7.1	9.2

Efficacy, 3500K, 80 CRI (Lumens Per Watt)			
S*	B*	H*	V**
98	97	95	94

S - Standard Output, B - Boosted Standard Output, H - High Output, V - Very High Output

\* Family Correlation based on 4' luminaire 3500K Very High Output (V) test - 120V.

\*\* Based on ITL report: 90390

Lumen Adjustment Factors - 80 CRI	
3000K	0.985
3500K	1.000
4000K	1.032

Lumen Adjustment Factors - 90 CRI	
3000K	0.746
3500K	0.760
4000K	0.789

Apply a lumen adjustment factor to calculate lumens for the desired CCT and CRI.

### SAMPLE LUMEN ADJUSTMENT CALCULATION

High Output (H), 4000K, 90 CRI

Lumen Adjustment Factor = 0.789

Total Light Output =  
2688 lm x 0.789 = 2121 lm

Total Light Output per Foot =  
672 lm/ft x 0.789 = 530 lm/ft

watts/foot = 7.1 W/ft

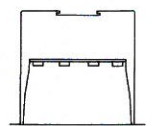
$$\text{Efficacy} = \frac{530 \frac{\text{lm}}{\text{ft}}}{7.1 \frac{\text{W}}{\text{ft}}} = 75 \text{ lm/W}$$

# FINELITE

## High Performance 4" Wet Location (HP-4 WL) Recessed

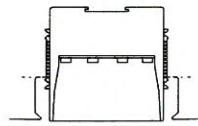
### HOUSINGS

Version 1



Visible Flange (VF)

Version 2

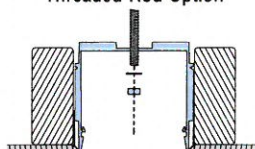


Spackle Flange (SF)

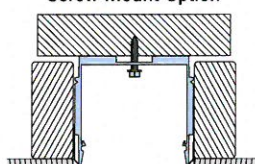
### HARD CEILING MOUNTING OPTIONS

Two mounting options: threaded rod and screw mounting options. Mounting locations are located on each end of the luminaire. Mounting location is 6" away from each end of luminaire.

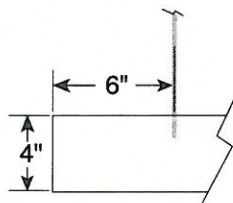
Threaded Rod Option



Screw Mount Option

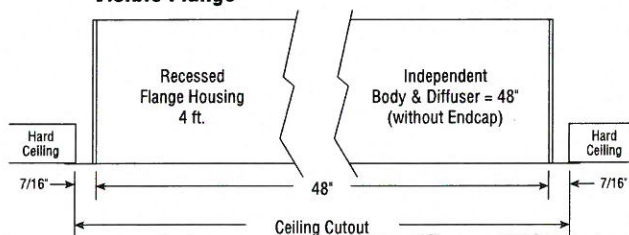


Mounting location for securing  
to structure excluding endcap

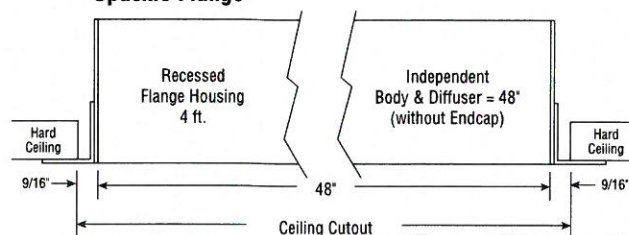


### HARD CEILING LENGTH DETAIL - 4' example

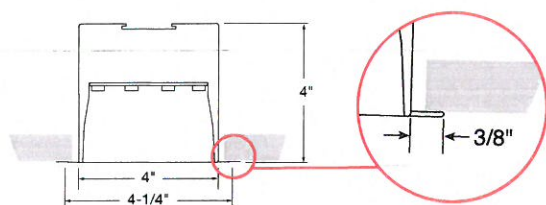
Visible Flange



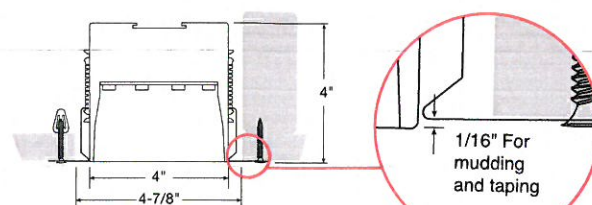
Spackle Flange



### ROUGH-IN DIMENSIONS



Visible Flange (VF)



Spackle Flange (SF)

Spackle Flange can be specified to various depths to accommodate different building materials and thicknesses. The minimum depth is 1/16" and can be specified in 1/8" increments up to a maximum depth of 13/16".

A brand of **legrand**





# FINELITE

## High Performance 4" Wet Location (HP-4 WL) Recessed

### SPECIFICATIONS

**WET LOCATION:** UL wet location listed and IP65 rated.

**IMPACT PROTECTION:** IK10

**SPECIAL FEATURES:** Integrated GORE® protective vent allows moisture to escape the fixture without letting water in and protects internal components from salts, corrosive liquids, and particulates.

**TEMPERATURE RATING:** Rated for -20°C to 40°C

**CONSTRUCTION:** Precision-cut 6061-T6 extruded aluminum body. Internal joiner system, plug-together wiring, standard.

**ENDCAPS:** Flat diecast aluminum endcaps add 1/4" to each end of luminaire. Each joints add 1/4" to overall length.

**REFLECTORS:** Die-formed 20-gauge cold-rolled steel reflectors finished in 96LG High Reflectance white powder coat paint.

**DOWNLIGHT OPTION:** Internal gaskets prevent moisture and debris. 8" maximum lens length. Flush frost white snap-in impact resistant acrylic lens standard, 63% transmissive, 99% diffusion.

**LIGHT OUTPUT:** Four lumen packages available, Standard Output (S), Boosted Standard Output (B), High Output (H), and Very High Output (V). Light engines are replaceable.

**DRIVER:** Replaceable 120V/277V and 347V Constant Current Reduction dimming driver standard. Can be wired dimming or non-dimming. 0-10V dimming controls with a range of 10%- 100%. Dimming to 1% available; consult factory. Driver is fully accessible from below the ceiling. Power Factor: ≥0.9. Total Harmonic Distortion (THD) <20%.

**ELECTRICAL:** Optional emergency to generator, internal generator transfer switch, and nightlight wiring.

**MOUNTING:** Visible flange mounting offers a 3/8" visible flange integral to the extruded luminaire body. Spackle flange option also available. Not suitable for vertical mounting.

**FINISHES:** Finelite Signal White (SW) powder coat standard. Finelite Black (RAL 9005) with semi gloss fine texture (FB)<sup>1</sup> and Satin Aluminum (SA)<sup>1</sup> are available. Optional Adders: 185 RAL colors<sup>1</sup>.

**LENGTHS:** 2', 3', 4', 5', 6', 7', and 8' section lengths. Independent and continuous rows available.

**LABELS:** Fixture and electrical components are ETL-listed conforming to UL 1598 in the U.S.A. and CAN/CSA C22.2 No. 250.0 in Canada. In accordance with NEC Code 410.73 (G), this luminaire contains an internal driver disconnect. UL wet location listed and IP65 and IK10 rated. Finelite products use electronic components that are RoHS compliant, and the mechanical components of the luminaire have been verified to not knowingly contain any restricted substances listed per RoHS Directive 2011/65/EU. Not suitable for vertical mounting.

**WEIGHT:** 3.60 lb/ft.

**WARRANTY:** 5-year performance-based warranty on all standard components.

<sup>1</sup> 20 business days lead time for color

# SS4G4DR / IC432

4" SS LED Lensed Downlight Gen 4 - Wet Location

## ELECTRICAL DATA

LED Light Engine	System Wattage *		CCT	Nominal Delivered Lumens **
	120-277V	347V		
L1	9W	9.7W	3500K	650lm
L2	13W	14.5W	3500K	1000lm
L3	17W	19.5W	3500K	1350lm
L4	21W	24W	3500K	1700lm
L5	26W	29W	3500K	2000lm
L6	37W	37W	3500K	2650lm
L7	47W	N/A	3500K	3300lm

\* System Wattage includes driver and LED Module consumption. | \*\* Delivered lumen output will vary depending on CCT selection.

## LED MODULE

- Powered by OSRAM high performance LED engine
- 50,000 hours at 70% lumen maintenance
- 80 CRI at 2700K, 3000K, 3500K, 4000K

## ELECTRICAL SYSTEM

- Universal voltage 120-277V when specified with Osram 0-10V 1% or Intellect options only
- elddoLED, Lutron and DMX Dimming must specify voltage
- Phase dimming available in 120V only
- 347V available with Osram 0-10V 1% Dimming only
- Power factor >.9, 50/60Hz

## EMERGENCY BACKUP

Remote test switch included. External battery operates LED load of up to 7W at a minimum of 550 lumens for 90 minutes (EM7), or 20W at a minimum of 1600 lumens for 90 minutes (EM20).

## OPTICAL SYSTEM

Specification grade reflector with 1.2mm thickness. Reflector available in clear specular, haze or white. Architectural, discrete polished self flange standard. Optional painted white flange is available. Meets RP-1 requirements with controlled light distribution at a 55° cut off.

## DIMMING

- 0-10V Dimming 1%
- Forward/reverse phase dimming 1% (120V only)
- elddoLED 0-10V 0.1% or 1%
- Lutron® LDE1 Hi-Lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology
- Lutron® LTEA2W Hi-Lume 1% 2-Wire LED driver (120V forward phase only)
- Lutron® LDE5 5-Series EcoSystem LED driver
- DMX512 RDM 0.1%

## Intellect™

- Listed on the DesignLights Consortium (DLC) Qualified Product List (QPL) for Networked Lighting Control systems
- Integrated control system provides occupancy and light level detection, and controls the load directly by the power control module Integrated intelligent fixture controls
- Only hot and neutral power required at all devices, no need for control wires
- 12' ceiling height maximum
- 24" cable provided for connection between sensor and power control module
- Keypad Room controller must be specified separately
- Visit Leviton Intellect™ for more info

## FRAME CONSTRUCTION

Heavy duty galvanized steel frame with a large access junction box. ETL listed for through wiring. LED light engine and driver are accessible from above or below ceiling.

## INSTALLATION

The luminaire is type Non-IC. Insulation must be kept at a minimum of 3" away from fixture. Universal mounting brackets included. Compatible with C-channel, flat bar, wood joist bar hanger and EMT. Bar hangers must be ordered separately. C-channel is recommended for T-bar ceilings. Maximum ceiling thickness is 1 1/4"

## END-OF-LIFE INDICATOR

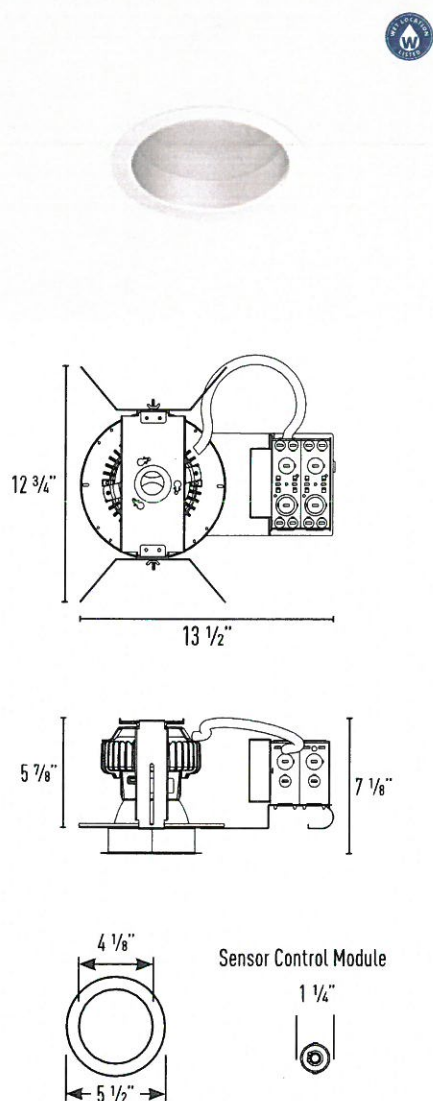
Optional end-of-life indicator helps the end user to receive a signal from the fixture indicating that it has reached its programmed life-time. After the LED driver reaches the programmed life-time, whenever it is turned ON, it stays at 'Dim' level (10%) for 10 minutes and then reaches its appropriate level.

## LISTING/WARRANTY

- ETL listed to US and Canadian standards for wet locations.
- 5-Year Intense LED Limited Warranty



JOB NAME	CATALOG NUMBER
NOTES	TYPE



Ceiling Cut Out: 4 3/4"

Maximum Ceiling Thickness: 1 1/4"

## Housing Part Number (Example: SS4G4DRL4358)

Housing	LED Module	CCT / CRI	Dimming	Voltage	Options
SS4G4DR	<input type="checkbox"/> L1 (9 Watts)	<input type="checkbox"/> 278 (2700K / 80 CRI)	<input type="checkbox"/> blank (Osram 0-10V 1%)	<input type="checkbox"/> blank (Universal 120/277V)	<input type="checkbox"/> EM7 (7W Emergency Backup w/ Remote Test Switch <a href="#">IOTA part #ILB-CP07-A</a> )
	<input type="checkbox"/> L2 (13 Watts)	<input type="checkbox"/> 308 (3000K / 80 CRI)	<input type="checkbox"/> -IE² (Intellect Wireless 1%)	<input type="checkbox"/> 347 (347V)	<input type="checkbox"/> EM20⁸ (20W Emergency Backup w/ Remote Test Switch <a href="#">IOTA ILB-CP20-HE-S</a> )
	<input type="checkbox"/> L3 (17 Watts)	<input type="checkbox"/> 358 (3500K / 80 CRI)	▼ Not available with universal voltage, must specify blank (120V) or 27 (277V) ▼		
	<input type="checkbox"/> L4 (21 Watts)	<input type="checkbox"/> 408 (4000K / 80 CRI)	<input type="checkbox"/> -DIM³,⁴ (Phase Dimming)	<input type="checkbox"/> blank (120V)	<input type="checkbox"/> EOL (End-of-Life Indicator at 50,000 hours)
	<input type="checkbox"/> L5 (26 Watts)		<input type="checkbox"/> -ED10V1 (elddoLED 0-10V 1%)	<input type="checkbox"/> 27 (277V)	<input type="checkbox"/> I100 (C-Channel Bar Hangers)
	<input type="checkbox"/> L6 (37 Watts)		<input type="checkbox"/> -ED10V01 (elddoLED 0-10V 0.1%)		<input type="checkbox"/> I200 (Flat Bar Hangers)
	<input type="checkbox"/> L7¹ (47 Watts)		<input type="checkbox"/> -LUT⁵ (Lutron® LDE1 EcoSystem 1%)		<input type="checkbox"/> I400 (Wood Joist Bar Hangers)
			<input type="checkbox"/> -LUT⁵,⁵ (Lutron® LDE5 EcoSystem 5%)		
			<input type="checkbox"/> -LUT2⁴,⁵ (Lutron® LTEA2W 2-Wire 1%)		
			<input type="checkbox"/> -DMXR⁴ (DMX512 RDM 0.1%)		

## Reflector Part Number (Example: IC432HZ-SF-CR)

Reflector	Reflector Finish	Trim	Lens Type
IC432	<input type="checkbox"/> C (Clear)	<input type="checkbox"/> -SF (Self Flanged)	<input type="checkbox"/> -CR (Clear Tempered)
	<input type="checkbox"/> HZ (Haze)	<input type="checkbox"/> -SFW (Self Flanged White)	<input type="checkbox"/> -SB (Sand Blasted)
	<input type="checkbox"/> W (White)		

## Notes:

- 347V Not available with L7 option
- Intellect not available with elddoLED, Lutron, Dali or DMX Dimming (Integrated intellect control system includes sensor and power pack. Keypad Room Controller must be specified separately)
- Not available in L1, L2 or L7
- Not available in 277V
- Lutron not available in L1 & L7
- DMX512 RDM not available in L1 & L2
- 347V only available with Osram 0-10V 1% Dimming
- 20W emergency not available in L1, L2 & L3

SS-DOWNLIGHTING LTM-1094-2014

INTENSE LIGHTING | 3340 E La Palma Ave, Anaheim, CA 92806 | tel 714 630-9877 | fax 714 630-9883

For Intense Lighting's limited product warranty, go to [www.intenselighting.com](http://www.intenselighting.com). For a printed copy of the warranty, you may call 800 961-5321.

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intense<sup>®</sup> a LEVITON<sup>®</sup> company



# SS4G4DR / IC432

4" SS LED Lensed Downlight Gen 4 - Wet Location

JOB NAME		CATALOG NUMBER	
NOTES		TYPE	

## SS4G4DRL1358 / IC432C-CR

Test Number: ILL-20170227-03.001

Lumens: 666.4lm

Watts: 8.6W

Efficacy: 77 lm/w

Distance to Floor (Feet)	Footcandles at Nadir	Beam Diameter (Feet)
6'	24.4fc	5' 1"
8'	13.7fc	6' 9"
10'	8.8fc	8' 6"
12'	6.1fc	10' 3"

### Candela Distribution

Angle	Candela
0°	879
5°	858
15°	677
25°	396
35°	203
45°	67

### Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	448	67
0-40	575	86
0-60	652	98
60-90	15	2
0-90	666	100

### L1 LED Module - CCT Multipliers:

2700K (x 1.00), 3000K (x 1.00), 3500K (x 1.00), 4000K (x 1.08)

## SS4G4DRL2358 / IC432C-CR

Test Number: ILL-20170227-03.002

Lumens: 1000.9lm

Watts: 12.8W

Efficacy: 78 lm/w

Distance to Floor (Feet)	Footcandles at Nadir	Beam Diameter (Feet)
6'	36.7fc	5' 1"
8'	20.6fc	6' 9"
10'	13.2fc	8' 6"
12'	9.17fc	10' 3"

### Candela Distribution

Angle	Candela
0°	1321
5°	1300
15°	1018
25°	594
35°	305
45°	101

### Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	673	67
0-40	864	86
0-60	979	98
60-90	22	2
0-90	1,000	100

### L2 LED Module - CCT Multipliers:

2700K (x 0.95), 3000K (x 0.97), 3500K (x 1.00), 4000K (x 1.03)

## SS4G4DRL3358 / IC432C-CR

Test Number: ILL-20170227-03.003

Lumens: 1332.8lm

Watts: 17.2W

Efficacy: 77 lm/w

Distance to Floor (Feet)	Footcandles at Nadir	Beam Diameter (Feet)
6'	48.9fc	5' 1"
8'	27.5fc	6' 9"
10'	17.6fc	8' 6"
12'	12.2fc	10' 3"

### Candela Distribution

Angle	Candela
0°	1759
5°	1715
15°	1355
25°	792
35°	407
45°	135

### Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	896	67
0-40	1,150	86
0-60	1,304	98
60-90	29	2
0-90	1,333	100

### L3 LED Module - CCT Multipliers:

2700K (x 0.97), 3000K (x 0.97), 3500K (x 1.00), 4000K (x 1.03)

## SS4G4DRL4358 / IC432C-CR

Test Number: ILL-20170227-03.004

Lumens: 1667.3lm

Watts: 21.4W

Efficacy: 78 lm/w

Distance to Floor (Feet)	Footcandles at Nadir	Beam Diameter (Feet)
6'	61.1fc	5' 1"
8'	34.4fc	6' 9"
10'	22fc	8' 6"
12'	15.31fc	10' 3"

### Candela Distribution

Angle	Candela
0°	2200
5°	2146
15°	1695
25°	990
35°	508
45°	169

### Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	1,121	67
0-40	1,438	86
0-60	1,631	98
60-90	36	2
0-90	1,667	100

### L4 LED Module - CCT Multipliers:

2700K (x 0.97), 3000K (x 0.97), 3500K (x 1.00), 4000K (x 1.03)

# SS4G4DR / IC432

4" SS LED Lensed Downlight Gen 4 - Wet Location

JOB NAME		CATALOG NUMBER	
NOTES		TYPE	

## SS4G4DRL5358 / IC432C-CR

Test Number: ILL-20170227-03.005

Lumens: 1999.1lm

Watts: 26.3W

Efficacy: 76 lm/w

Distance to Floor (Feet)	Footcandles at Nadir	Beam Diameter (Feet)
6'	73.3fc	5' 1"
8'	41.2fc	6' 9"
10'	26.4fc	8' 6"
12'	18.3fc	10' 3"

### Candela Distribution

Angle	Candela
0°	2638
5°	2573
15°	2032
25°	1187
35°	610
45°	201

### Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	1,344	67
0-40	1,725	86
0-60	1956	98
60-90	44	2
0-90	1,999	100

### L5 LED Module - CCT Multipliers:

2700K (x 0.91), 3000K (x 0.99), 3500K (x 1.00), 4000K (x 1.02)

## SS4G4DRL6358 / IC432C-CR

Test Number: ILL-20170227-03.006

Lumens: 2665.5lm

Watts: 36.6W

Efficacy: 73 lm/w

Distance to Floor (Feet)	Footcandles at Nadir	Beam Diameter (Feet)
6'	97.7fc	5' 1"
8'	55fc	6' 9"
10'	35.2fc	8' 6"
12'	24.4fc	10' 3"

### Candela Distribution

Angle	Candela
0°	3518
5°	3430
15°	2710
25°	1583
35°	813
45°	268

### Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	1,792	67
0-40	2,299	86
0-60	2,607	98
60-90	58	2
0-90	2,666	100

### L6 LED Module - CCT Multipliers:

2700K (x 0.91), 3000K (x 0.99), 3500K (x 1.00), 4000K (x 1.02)

## SS4G4DRL7358 / IC432C-CR

Test Number: ILL-20170227-03.007

Lumens: 3274.3lm

Watts: 46.5W

Efficacy: 70 lm/w

Distance to Floor (Feet)	Footcandles at Nadir	Beam Diameter (Feet)
6'	120fc	5' 1"
8'	67.5fc	6' 9"
10'	43.2fc	8' 6"
12'	30fc	10' 3"

### Candela Distribution

Angle	Candela
0°	4321
5°	4214
15°	3328
25°	1945
35°	999
45°	657

### Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	2,201	67
0-40	2,825	86
0-60	3,203	98
60-90	72	2
0-90	3,274	100

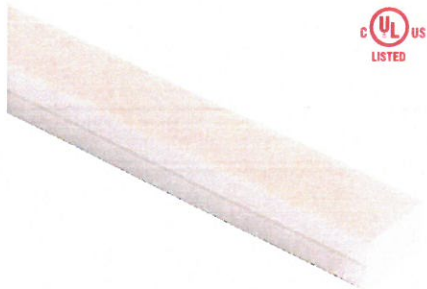
### L7 LED Module - CCT Multipliers:

2700K (x 0.91), 3000K (x 0.99), 3500K (x 1.00), 4000K (x 1.02)



# BOXA-SW

## Q-CAP Flexible Fixtures



BOXA-SW is a fully encapsulated flexible linear LED fixture suitable for use in a variety of applications. Because of its dry and wet rating, it is perfect for not only indoor use but also as outdoor accent lighting where the fixture is visible. BOXA-SW encapsulates our one step, one bin 24-volt static white LED strips in polyurethane. Offered in three different outputs: standard output (1.5W/ft), high output (3.0W/ft), and very high output (5.0W/ft). BOXA-SW has a unique up/down bend with a 6" bending radius and it is compatible with six different mounting hardware options to ensure our product fits any design need. Available in a seamless option, where wires are hidden so they do not obstruct the look of the design. Utilize clear endcaps for continuous runs with no light loss.

### Output [Calculated L70 = 40000 hours]

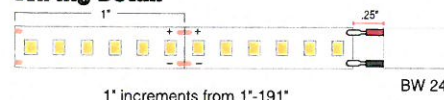
Tested for BOXA-SW-WSC-DRY

### Dimensions

CCT	SO Standard Output 1.5 W/ft				HO High Output 3.0 W/ft				VHO Very High Output 5.0 W/ft			
	ENC/CL		ENC/TL		ENC/CL		ENC/TL		ENC/CL		ENC/TL	
	LM	CRI	LM	CRI	LM	CRI	LM	CRI	LM	CRI	LM	CRI
2400K	131	95	103	94	231	93	184	93	320	94	265	94
2700K	125	97	102	97	238	99	188	98	324	98	280	98
3000K	133	99	108	98	242	98	198	98	337	98	294	98
3500K	142	96	114	96	242	96	204	97	350	97	285	97
4000K	148	95	120	96	263	96	207	97	364	97	305	97



### Wiring Detail



### Part Number Builder

Product	Mounting	Rated	CCT	Output	Lens	Type	Connector/ Wire in	Connector/ Wire out	End Caps (No feed)	Length (in)
BOXA-SW										
Voltage: 24 VDC Wattage: see table  *White snug clip included with side graze channel  ENCAPSULATED PRODUCTS ARE NOT FIELD CUTTABLE	WSC RLC MC SGC PPS-2 PPS-96 PPS-FT PPS-LP-2 PPS-LP-96 PPS-LP-FT	DRY (IP20)	24	- 2400K	ENC/CL ENC/TL	S1 S2 S3 S4 S5	BW BRL	N/A	CL WH	
			27	- 2700K						
			30	- 3000K						
		WET (IP67)	35	- 3500K	HO (3.0W)	P1 P2 P3 P4 P5	BW BRL	BW BRL	N/A	
			40	- 4000K						
		SBM (IP68)			VHO (5.0W)					

- **BW** comes in standard 24" - request custom length (Max 120") by writing it in inches next to "BW" in the order code box (ex. BW48)
- **Connector/Wire In or Out** not needed to specify product. Standard configuration is type S1, Connector/Wire In: BW & Connector/Wire Out: N/A with white endcaps (WH)
- **PPS** mounting clip recommended for seamless applications
- **SBM** not recommended to be used in chlorinated water

### Flexibility



- Field modifications are not covered under Q-Tran warranty
- Up/Down Bend
- IK10 impact rated
- Data subject to change, all data has +/- 5% tolerance
- **PPS-FT** is to be cut at Q-Tran to requested length

**Mounting** NOTE: 2 white snug clips provided per first 12", 1 for each additional 12". Other mounting styles incur additional charge, see price guide for details.

WSC	RLC	MC	SGC	PPS-2	PPS-96	PPS-FT	PPS-LP-2	PPS-LP-96	PPS-LP-FT
White snug clip	Rigid lock channel	Magnetic clip (Cove use only)	Side graze channel	PVC mounting clip		PVC channel Custom length	Low profile PVC mounting clip	Low profile PVC channel	Low profile PVC channel Custom length

### Type

SINGLE (Input only)

S1	S2	S3	S4	S5
				Seamless

PASS THROUGH (Input/Output)

P1	P2	P3	P4	P5
				Seamless

### End Caps (No Feed)

CL	WH
Clear endcaps .0" added at end .00" dim spot	White endcaps .0" added at end .10" dim spot

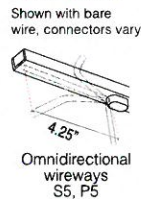
### End Caps (With Feed)

End Feed	Tri-Directional
S1, P1	S2, S3, S4, P2, P3, P4
White endcaps .0" added at end .10" dim spot	White endcaps .32" added at end .67" dim spot

### Bend Radius



### Seamless



### Connector/Wire - In/Out

BW	BRL
Bare Wire 24"	Barrel 6"

### Lens with LED visibility

ENC/CL	ENC/TL
Encapsulated in clear	Encapsulated in translucent

### Compatible Power Supplies

See website for additional power supply options

QTM-DC+CAP	IQ-PH-80 QD1	QZ	QTM-eLED



# ST0134 LED

## Recessed Wall Luminaires

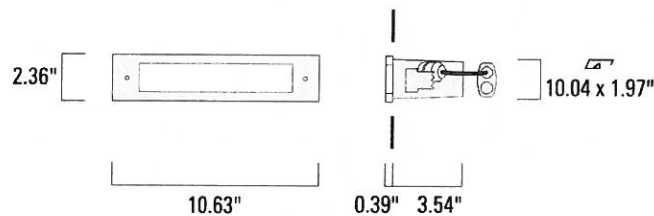
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### Description

IP66. Recessed LED steplight for orientation. Suitable for installation in cavity wall construction or concrete pour construction using optional installation blockout. Painted finish.



# ST0134 LED

## Recessed Wall Luminaires

3/5

**we-ef**

### Choices

#### Light Distributions



diffused distribution

#### Nominal Lumen

750

780

#### Nominal Watt

5

#### Colour Temperatures

3000 K

4000 K

#### Colours

RAL9004 Black

RAL9007 Grey Metallic

RAL9016 White

RAL8019 Dark Bronze






# ST0134 LED

## Recessed Wall Luminaires







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












### Configurations

Light Distributions	Part ID	Light Source	Delivered Lumens	Rated Input Power	CRI	Weight	Link
	615-7620	LED-5W / 250 mA - 3000 K	72.3	5.6	80	1.98	
	615-7621	LED-5W / 250 mA - 4000 K	75.4	5.6	80	1.98	

### Related Families

Family		Dimensions	Wattage	Nominal Lumen	Links	Download Data Sheet
ST0134 LED		10.63 x 2.56	5 W	750 -780		
ST0134 LED Stainless Steel		10.63 x 2.56	5 W	750 -780		

### Similar Products

Family		Dimensions	Wattage	Rated Lumens	Links	Download Data Sheet
ST0134 LED Stainless Steel		10.63 x 2.56	5 W	750 -780		
		270 x 65	0 W	0		
		270 x 65	0 W	0		
		270 x 65	0 W	0		
		270 x 65	0 W	0		

# ST0134 LED

## Recessed Wall Luminaires

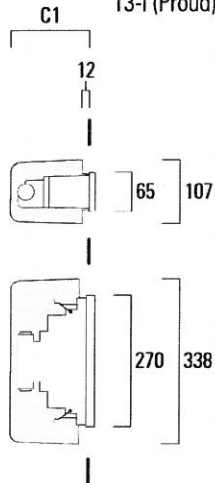
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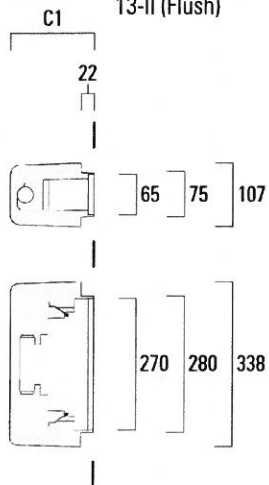
### Mounting Accessories

#### Installation blackout

##### 615-9334 Installation blackout 13-I (Proud)



##### 615-9335 Installation blackout 13-II (Flush)







**Calpipe Security Bollards**  
12160 Woodruff Ave

**Phone:** (562) 803-4388  
**Fax:** (562) 803-9885  
**Toll Free:** (877) 283-8518

## Product Information

EasySpec S/N 109726

**Product/Model Name:** Architectural Lighted Bollards

**Calpipe Security Bollards** manufactures a full line of lighted bollards engineered and built to withstand vehicle impacts while illuminating pathways and sidewalks to guide pedestrians.

The sleek 304 stainless steel finish, up to date lighting options and various aesthetic styles bring a sophisticated look to any landscape or building.  
Lighted Bollards are available in high security crash-rated models to provide superior protection against vehicle intrusion.

### Light Security Lighted Bollards

Our most economical bollard, designed to improve visibility and safety. These bollards are anchored to a baseplate foundation, which makes them easy to install into any location. Available in 6" or 8" diameters. Not intended to resist vehicle impacts.



## Project Information

**Project Name:** WORKERS FORCE HOUSING  
**Contact Name:** hisham suliman  
**Project Location:** MIAMI BEACH  
**Contact Email:** hisham@shulman-design.com

## Selected Features and Options (Product Schedule)

<b>Material</b>	Stainless Steel
<b>Mounting</b>	Base Plate
<b>Finish</b>	Polished to a #4 brushed finish
<b>Height</b>	42" (1067mm)
<b>Shape</b>	Circular
<b>Chain Eyes</b>	No
<b>Caps</b>	Flat



<b>Lighting Type</b>	LED
<b>Diameter</b>	6" (152mm)
<b>Optics</b>	Glass Refractor
<b>Watts</b>	13W
<b>Lens Material</b>	Opaque
<b>Model Number</b>	SSLA06000
<b>Voltage</b>	120V

[Print](#)

**Note:** This page is a summary of the features and options you selected for the above product and is made available for information purposes only. You must confirm this information and product availability with the manufacturer listed above prior to using for planning purposes. Additional options may also be available.

# HADCO

by  Signify

## Landscape

### B9 FlexScape LED

Accent line-voltage luminaire



**Hadco FlexScape B9** accent line-voltage landscape luminaire has interchangeable optics 20°, 36° and 65° by switching optic lenses. This adjustable luminaire also has the ability to switch between 5 preset light outputs.

Project:	
Location:	
Cat.No:	
Type:	
Lamps:	Qty:
Notes:	

### Ordering guide

example: B9DWA

Series	Lamping	CCT	Finish	Surge suppressor
<b>B9</b>	<b>D</b>	<input type="checkbox"/> -	<input type="checkbox"/>	<input type="checkbox"/>
B9 Accent line-voltage luminaire	D LED	W Warm (3000K) C Cool (4000K)	A Black H Bronze	blank None SP1 120-277V, 10K

### Features

1. Housing/Construction: A360 die-cast aluminum, able to remove shroud from housing with 2 screws. Adjustable knuckle stem provides range of rotation, prevents fixture from pointing past vertical. Vibration locking teeth secured by black oxide stainless steel screw. Driver mounts directly to housing for thermal management. All gaskets are 100% molded silicone.
2. Electrical: 34W (on high setting) Input voltage range (VAC): 120-277V. Pre-wired with 12+" pigtail for ease of connection. Includes 0-10V Analog Class 2 wiring for dimming, capped off to help prevent cross wiring with line-voltage wires.
3. LED Board: Single COB LED Array.
4. Controls: Class 2 driver with AOC and 0-10V dimming. Design allows easy-access to integral switch with 5 preset light outputs, see lumen matrix. Remove lens cap with [2] screws and simply adjust the slider switch by hand.

5. Optical Systems: Flat glass, soda lime tempered clear glass, c-channel gasket slips onto lens without tools or RTV. Fixture pre-installed with medium flood (36°) optical lens. Interchangeable optical lenses clip onto main reflector. Both narrow flood (20°) and wide flood (65°) optical lenses are shipped with each fixture. Components are made of injection molded polycarbonate (PC).
6. Mounting: 1/2"-14 NPSM male threads to screw onto mounting stake, or other mounting accessory, sold separately.

### Finish

Thermoset polyester powder coat is electrostatically applied after a five-stage conversion cleaning process and bonded by heat fusion thermosetting.

### Lamps

Integral LED module

### Options

Optional integral surge protection device provides single phase protection for line/neutral, line/ground, and neutral/ground in accordance with IEEE C62.41 2002C High.

### IP66 Rating

Dust tight and sealed against direct jets of water.

### Labels

ETL Listed to U.S. safety standards for wet locations. cETL listed to Canadian safety standards for wet locations. Manufactured to ISO 9001:2008 Standards. 5-year limited warranty.

### Lumen matrix

Wattage	Amps		3000K			4000K		
	120V	277V	Narrow	Medium	Wide	Narrow	Medium	Wide
10W	80mA	50mA	995	982	932	1102	1097	1023
13W	110mA	55mA	1427	1409	1337	1580	1573	1467
19W	155mA	75mA	2031	2006	1903	2249	2240	2089
27W	225mA	100mA	2797	2762	2621	3097	3087	2874
33W	275mA	120mA	3271	3230	3065	3622	3598	3372

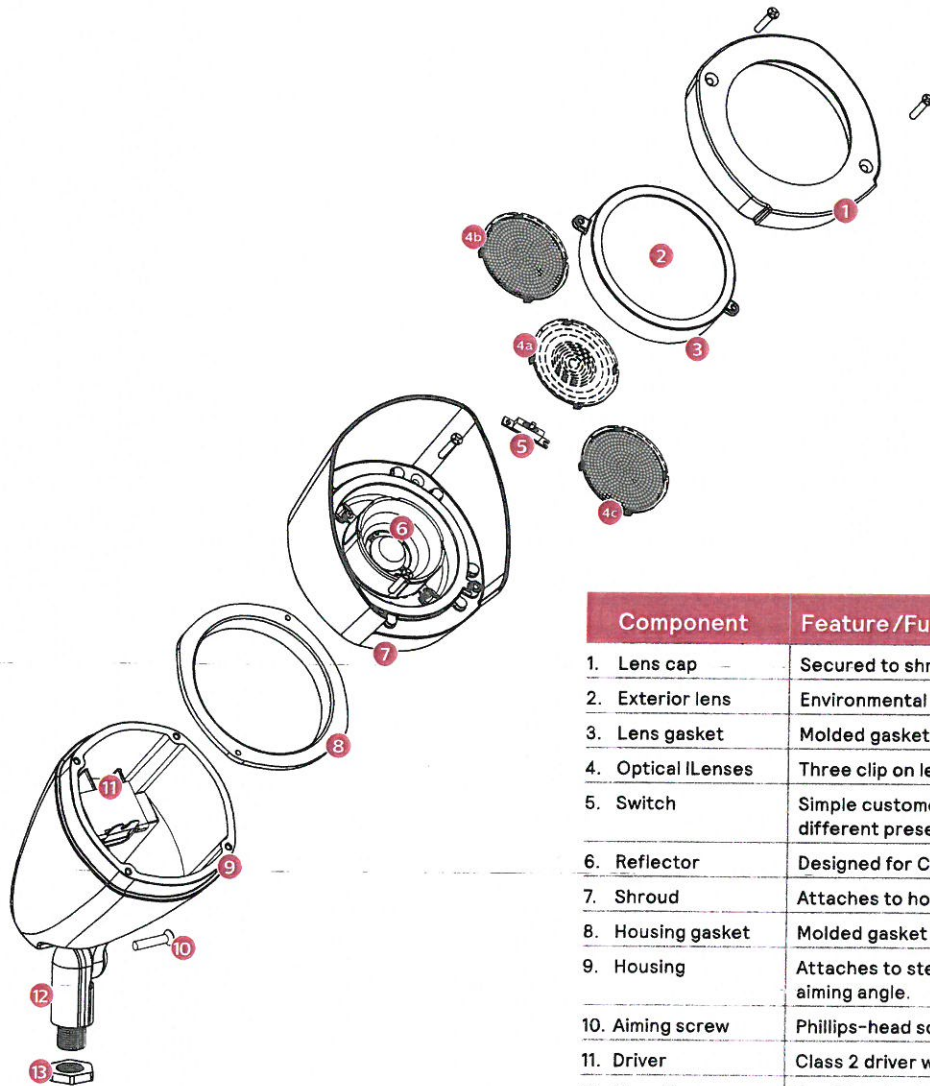
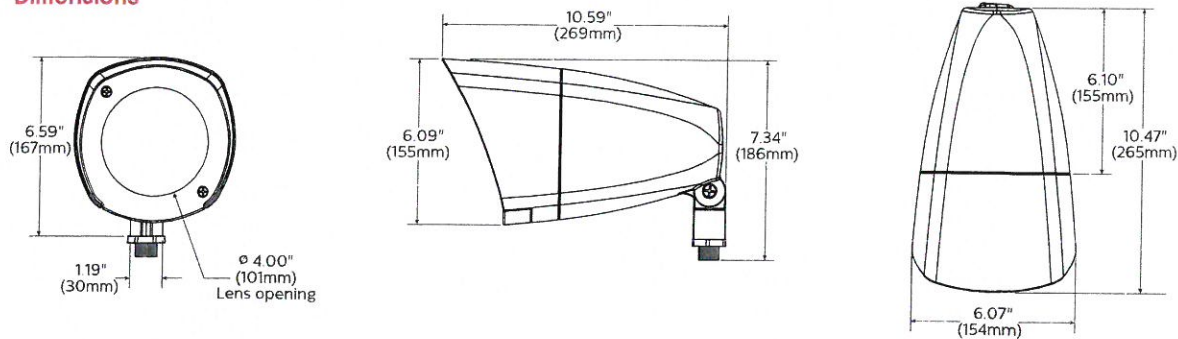




# B9 FlexScape LED

## Landscape line-voltage accent

### Dimensions



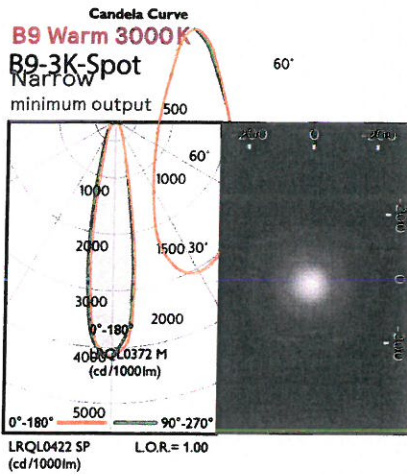
Component	Feature/Function
1. Lens cap	Secured to shroud with two phillips screws.
2. Exterior lens	Environmental barrier (sealing).
3. Lens gasket	Molded gasket slips onto lens without tools or RTV.
4. Optical lenses	Three clip on lenses 4a - NFLD, 4b - MFLD, 4c -WFLD
5. Switch	Simple customer access for dimming. Slides to 5 different preset light levels.
6. Reflector	Designed for COB LEDs, provides UV protection.
7. Shroud	Attaches to housing with two screws.
8. Housing gasket	Molded gasket provides seal for driver housing.
9. Housing	Attaches to stem with screw, teeth to lock aiming angle.
10. Aiming screw	Phillips-head screw, loosen slightly to adjust aiming.
11. Driver	Class 2 driver with 0-10v dimming. Field replaceable.
12. Mounting arm	Provides durable mounting for luminaire, teeth to lock aiming angle.
13. Locking nut	Metal nut allows orientation of accent to be locked.



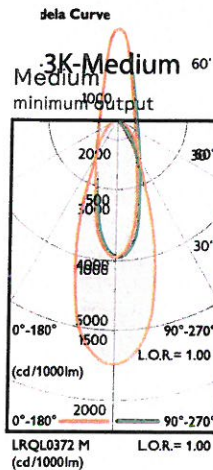
# B9 FlexScape LED

## Landscape line-voltage accent

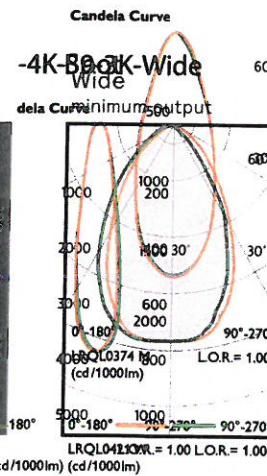
B9-3K-Medium



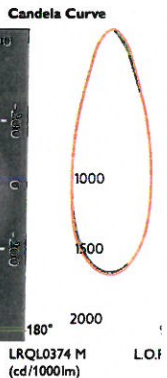
-4K-Spot



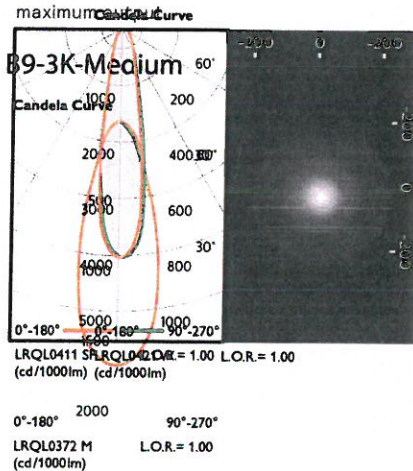
B9-4K-Medium



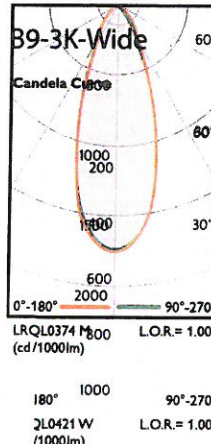
B9-4K-Medium



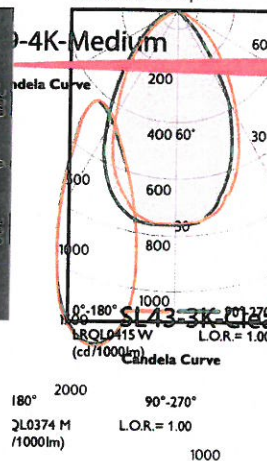
**B9 Cool 4000K**  
Narrow  
maximum output



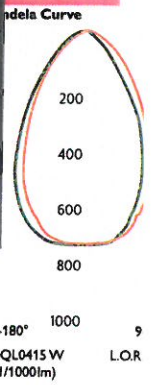
**B9-4K-Medium**  
Medium  
maximum output



**B9-4K-Wide**  
Wide  
maximum output



**B9-4K-Wide**  
Wide  
maximum output



**B9-4K-Medium**

Candela Curve

**B9-3K-Wide**

Candela Curve

**-4K-Wide**

Candela Curve

**-4K-Wide**

Candela Curve

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