

8-OC1-LED-2000L-DIM10-MVOLT-40K-85

TEST NO.: EL111853

INPUT WATTS: 152.9

LUMENS: 18986

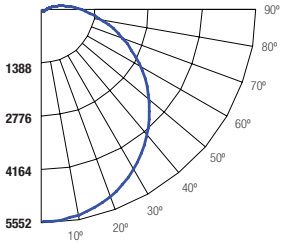
CRI: 85

EFFICACY: 124

CCT: 4000K

SPACING CRITERIA: 1.38

Candle Power Distribution (Candelas)



Cone of Light		
4.0	19.2 fc	69.7 ft
8.0	4.8 fc	139.4 ft
12.0	2.13 fc	209.1 ft
16.0	1.2 fc	278.8 ft
20.0	0.77 fc	348.5 ft
24.0	0.53 fc	418.2 ft
Distance to Plane	Initial Footcandle at Nadir	Beam diameter
BEAM DIA. MEASURED AT 50% OF NADIR F.C.		

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	2022.55	N.A.	10.70
0-30	4287.19	N.A.	22.60
0-40	7014.39	N.A.	36.90
0-60	12508.44	N.A.	65.90
0-80	16326.11	N.A.	86.00
0-90	17384.99	N.A.	91.60

Luminance (Average candela/M²)

Angle in Degrees	Average		
	0°	45°	90°
45	16882	18569	20133
55	15509	18422	20942
65	13809	18942	22858
75	11326	21936	28425
85	6490	43077	60874

Lumens Per Zone

Zone	Lumens
0-10	524.17
10-20	1498.38
20-30	2264.64
30-40	2727.2
40-50	2848.3
50-60	2645.74
60-70	2197.97
70-80	1619.7
80-90	1058.88

Candela Tabulation

0	5546.039
5	5526.768
15	5285.660
25	4819.362
35	4159.458
45	3374.495
55	2514.738
65	1649.713
75	828.684
85	159.890
90	16.819

Coefficients of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance 0.20

RC	80%				70%				50%				30%				10%				0%			
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%		
ROOM CAVITY RATIO	0	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	94	94	94	92		
1	105	99	94	90	101	96	92	88	90	87	83	85	82	79	80	78	75	73	75	73	73			
2	95	86	78	72	91	83	76	71	78	72	68	74	69	65	69	65	62	59	62	59	59			
3	86	75	66	59	83	73	65	58	68	62	56	64	59	54	61	56	52	49	56	52	49			
4	79	66	57	50	76	64	56	49	61	53	47	57	51	46	54	49	44	42	49	44	42			
5	72	59	50	43	69	57	49	42	54	47	41	51	45	40	49	43	38	36	43	38	36			
6	67	53	44	37	64	52	43	37	49	41	36	46	40	35	44	38	34	31	38	34	31			
7	62	48	39	33	59	47	38	32	44	37	31	42	36	31	40	34	30	28	34	30	28			
8	57	44	35	29	55	43	34	29	41	33	28	39	32	27	37	31	27	25	31	27	25			
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	22	28	24	22			
10	50	37	29	24	49	36	28	23	34	28	23	33	27	22	32	26	22	20	26	22	20			

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

INTEGRATED SENSOR AND CONTROL OPTIONS

With the Integration of controls, Elite Lighting now offers its products with controls-ready performance that increases energy efficiency, smarter space planning, and the enhancement of safety and productivity in the workplace. By utilizing these controls, Elite Lighting luminaires enable your customer's facility to run smarter, with the use of an easily controlled system through any platform.

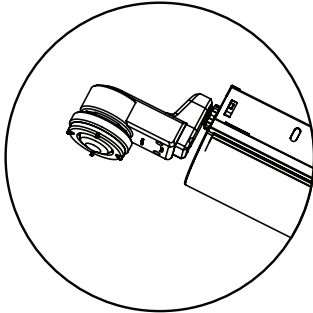
Luminaire will be shipped with Powerpacks pre-installed, ready to be Integrated to designated control systems

Luminaire will be shipped with Sensors installed on the luminaire, allowing for individual luminaire control. Luminaires will be ready to be Integrated with designated control systems

Luminaire will be shipped with Sensors to be remotely installed on the ceiling. Luminaires will be ready to be Integrated with designated control systems

BRAND	LEVITON	legrand
MICROWAVE INTEGRATED SENSOR	<input type="checkbox"/> OSM3D-DDW High Frequency Microwave Occupancy Sensor with 0-10V Dimming	<input type="checkbox"/> FS-205 Low Voltage Pir Fixture Integrated Occupancy Sensor
	<input type="checkbox"/> OSM3D-V1W Line Voltage Microwave Sensor	<input type="checkbox"/> FD-301 Low Voltage Daylight Dimming Photosensor
PIR INTEGRATED SENSOR	<input type="checkbox"/> OSFHU-LTW PIR Fixture Mount Occupancy Sensor	<input type="checkbox"/> FSP-311-B-D 0-10V continuous dimming PIR photo/motion sensor with bluetooth control option.
	<input type="checkbox"/> HB011-PDX PIR Fixture Mount Occupancy Sensor with Daylight Harvesting	

SIDE MOUNT



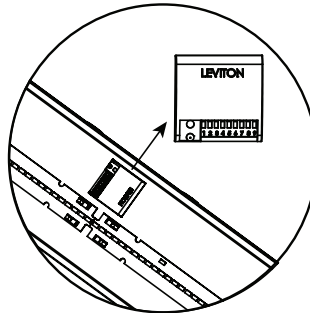
LEGRAND

- FSP-311-B-D
0-10V continuous dimming PIR photo/motion sensor with bluetooth control option.

LEVITON

- HB011-PDX
PIR Fixture Mount Occupancy Sensor with Daylight Harvesting
- OSFHU-LTW
PIR Fixture Mount Occupancy Sensor

Integrated



LEGRAND

- FS-205
Low Voltage Pir Fixture Integrated Occupancy Sensor
- FD-301
Low Voltage Daylight Dimming Photosensor

LEVITON

- OSM3D-DDW
High Frequency Microwave Occupancy Sensor with 0-10V Dimming
- OSM3D-V1W
High Frequency Microwave Occupancy Sensor

ELECTRICAL DATA

LED Light Engine	System Wattage* @ 120V	CCT	Nominal Delivered Lumens**	Efficacy
L0	8W	3500K	675 lm	84 lm/W
L1	10W	3500K	900 lm	88 lm/W
L2	14W	3500K	1300 lm	94 lm/W
L3	19W	3500K	1800 lm	92 lm/W
L4	23W	3500K	2200 lm	95 lm/W
L5	28W	3500K	2600 lm	94 lm/W
L6	33W	3500K	3000 lm	93 lm/W
L7	38W	3500K	3500 lm	92 lm/W

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

LED MODULE/OPTICS

- 80/90 CRI at 2700K, 3000K, 3500K, 4000K with 2 SDCM
- 70% lumen maintenance at 50,000 hours
- 30° Narrow Flood, 50° Flood or 70° Wide Flood

ELECTRICAL SYSTEM

- Dedicated voltage options of 120V, 277V or 347V must be specified in catalog code.
- Phase dimming available in 120V only
- 347V available with Osram 0-10V 1% Dimming only

EMERGENCY BACKUP

Remote test switch included. External battery operates LED load of up to 7W at a minimum of 600 lumens for 90 minutes (EM7), or 20W at a minimum of 1700 lumens for 90 minutes (EM20).

REFLECTOR

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 50° cut off.

DIMMING

- 0-10V Dimming 1%
- Phase Dimming 120V only, Forward 1% / Reverse 5%
- EldoLED 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) DMX512 RDM 0.1%

intellect™

- Integrated control system provides occupancy and light level detection, and controls the load directly by the power control module Integrated intelligent fixture controls
- Visit Leviton [intellect™](#) for more info

FRAME CONSTRUCTION

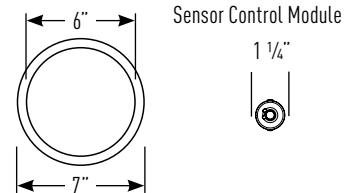
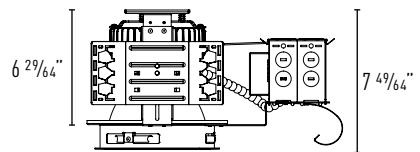
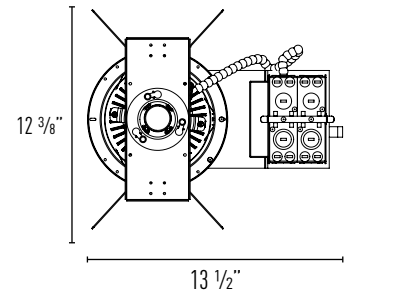
Heavy duty galvanized steel frame with a large access junction box. ETL listed for through wiring. LED light engine and driver are accessible from above or below ceiling.

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". Max. ambient temperature: 95°F (35°C).

LISTING/WARRANTY

- ETL listed to US and Canadian standards for wet locations.
- 5-Year Intense LED Limited Warranty
- ENERGY STAR® Qualified¹⁰



Ceiling Cut Out: 6 1/2"
Maximum Ceiling Thickness: 1 1/4"

Housing Part Number (Example: SD6DRL4359-D101-NFEM7)

Housing	LED Module	CCT / CRI	Dimming	Voltage	Optic	Options
SD6DR	<input type="checkbox"/> L0 ¹ (8W)	<input type="checkbox"/> 27 (2700K / 80 CRI)	<input type="checkbox"/> -D101 (Osram 0-10V 1%)	<input type="checkbox"/> blank (120V)	<input type="checkbox"/> -NF (30°)	<input type="checkbox"/> EM7 (7W Emergency Backup w/ Remote Test Switch [OTA part #ILB-CP07-A]) <input type="checkbox"/> EM20 ⁹ (20W Emergency Backup w/ Remote Test Switch [OTA ILB-CP20-HE-S])
	<input type="checkbox"/> L1 (10W)	<input type="checkbox"/> 279 (2700K / 90 CRI)	<input type="checkbox"/> -IE ³ (Intellect Wireless 1%)	<input type="checkbox"/> 27 (277V)	<input type="checkbox"/> -FL (50°)	
	<input type="checkbox"/> L2 (14W)	<input type="checkbox"/> 30 (3000K / 80 CRI)	<input type="checkbox"/> -DIM ^{4,5} (Phase Dimming)	<input type="checkbox"/> 34 ⁸ (347V)	<input type="checkbox"/> -WF (70°)	
	<input type="checkbox"/> L3 (19W)	<input type="checkbox"/> 309 (3000K / 90 CRI)	<input type="checkbox"/> -ED10V1 (eldoLED 0-10V 1%)			
	<input type="checkbox"/> L4 (23W)	<input type="checkbox"/> 35 (3500K / 80 CRI)	<input type="checkbox"/> -ED10V01 (eldoLED 0-10V 0.1%)			
	<input type="checkbox"/> L5 (28W)	<input type="checkbox"/> 359 (3500K / 90 CRI)	<input type="checkbox"/> -LUT ⁶ (Lutron® LDE1 EcoSystem 1%)			
	<input type="checkbox"/> L6 (33W)	<input type="checkbox"/> 40 (4000K / 80 CRI)	<input type="checkbox"/> -LUT2 ^{5,5} (Lutron® LTEA2W 2-Wire 1%)			
<input type="checkbox"/> L7 ² (38W)	<input type="checkbox"/> 409 (4000K / 90 CRI)	<input type="checkbox"/> -DMXR ⁷ (DMX512 RDM 0.1%)				

Reflector Part Number (Example: IC632HZ-SF-CR)

Reflector	Reflector Finish	Trim	Lens Type
IC632	<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)		

Accessories

- I100 (C-Channel Bar Hangers)
- I200 (Flat Bar Hangers)
- I400 (Wood Joist Bar Hangers)

Notes:

- L0 only available with -D101
- 347V Not available with L7 option
- Intellect not available with eldoLED, 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
- ENERGY STAR® Qualified (0-10V & ELV only. Excludes CCT/CRI options 279, 309 & 359)

Electrical Table

Lumen Package	Voltage	Wattage	VA	Input Current	Power Factor
L0	120	7.43	7.99	0.07	0.930
	277	8.41	11.87	0.04	0.709
L1	120	9.75	10.37	0.09	0.94
	277	10.82	14.18	0.05	0.76
L2	120	13.71	14.35	0.12	0.96
	277	14.85	18.06	0.07	0.82
L3	120	18.27	18.54	0.15	0.99
	277	19.77	22.92	0.08	0.86
L4	120	22.74	23.04	0.19	0.99
	277	24.09	27.31	0.10	0.88
L5	120	27.18	27.44	0.23	0.99
	277	28.93	32.00	0.12	0.90
L6	120	32.76	32.84	0.27	1.00
	277	34.09	36.72	0.13	0.93
L7	120	37.71	37.79	0.31	1.00
	277	38.86	41.77	0.15	0.93

SD6DRL1358 IC632C

CCT MULTIPLIERS:

	80 CRI	90 CRI
2700K	(x 0.92)	(x 0.79)
3000K	(x 0.98)	(x 0.79)
3500K	(x 1.00)	(x 0.82)
4000K	(x 1.01)	(x 0.84)

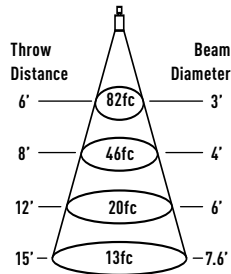
FINISH MULTIPLIERS

	30°	50°	70°
Clear	(x 1.00)	(x 1.00)	(x 1.00)
Haze	(x 0.96)	(x 0.96)	(x 0.88)
White	(x 0.96)	(x 0.97)	(x 0.90)

LENS MULTIPLIERS

	30°	50°	70°
CR	(x 1.00)	(x 1.00)	(x 1.00)
SB	(x 0.92)	(x 0.92)	(x 0.93)

-NF (30° Narrow Flood)

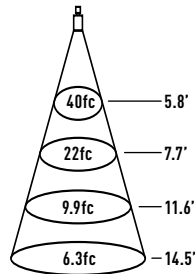


Footcandles at Nadir

Watts: 10 LPW: 88.3
Lumens: 883 CCT: 3500K

Luminance	
Degree	CBCP
0°	2936
5°	2708
15°	1342
25°	392
35°	96
45°	14

-FL (50° Flood)

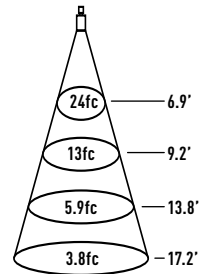


Footcandles at Nadir

Watts: 10 LPW: 96
Lumens: 960 CCT: 3500K

Luminance	
Degree	CBCP
0°	1422
5°	1407
15°	1320
25°	773
35°	123
45°	16

-WF (70° Wide Flood)



Footcandles at Nadir

Watts: 10 LPW: 78.7
Lumens: 787 CCT: 3500K

Luminance	
Degree	CBCP
0°	847
5°	831
15°	719
25°	528
35°	276
45°	61

SD6DRL2358 IC632C

CCT MULTIPLIERS:

	80 CRI	90 CRI
2700K	(x 0.92)	(x 0.79)
3000K	(x 0.98)	(x 0.79)
3500K	(x 1.00)	(x 0.82)
4000K	(x 1.01)	(x 0.84)

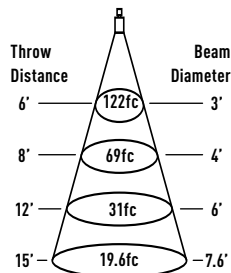
FINISH MULTIPLIERS

	30°	50°	70°
Clear	(x 1.00)	(x 1.00)	(x 1.00)
Haze	(x 0.96)	(x 0.96)	(x 0.88)
White	(x 0.96)	(x 0.97)	(x 0.90)

LENS MULTIPLIERS

	30°	50°	70°
CR	(x 1.00)	(x 1.00)	(x 1.00)
SB	(x 0.92)	(x 0.92)	(x 0.93)

-NF (30° Narrow Flood)

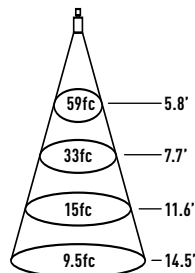


Footcandles at Nadir

Watts: 14 LPW: 94.6
Lumens: 1324 CCT: 3500K

Luminance	
Degree	CBCP
0°	4405
5°	4062
15°	2013
25°	588
35°	145
45°	21

-FL (50° Flood)

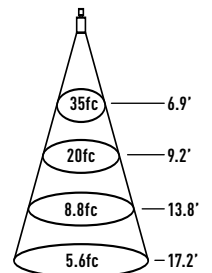


Footcandles at Nadir

Watts: 14 LPW: 102.9
Lumens: 1440 CCT: 3500K

Luminance	
Degree	CBCP
0°	2133
5°	2111
15°	1980
25°	1160
35°	184
45°	23

-WF (70° Wide Flood)



Footcandles at Nadir

Watts: 14 LPW: 84.4
Lumens: 1181 CCT: 3500K

Luminance	
Degree	CBCP
0°	1271
5°	1246
15°	1078
25°	792
35°	414
45°	91

SD6DRL3358 IC632C

CCT MULTIPLIERS:

	80 CRI	90 CRI
2700K	(x 0.92)	(x 0.79)
3000K	(x 0.98)	(x 0.79)
3500K	(x 1.00)	(x 0.82)
4000K	(x 1.01)	(x 0.84)

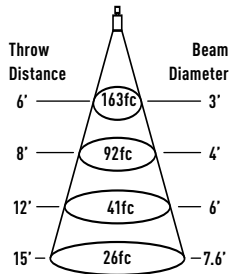
FINISH MULTIPLIERS

	30°	50°	70°
Clear	(x 1.00)	(x 1.00)	(x 1.00)
Haze	(x 0.96)	(x 0.96)	(x 0.88)
White	(x 0.96)	(x 0.97)	(x 0.90)

LENS MULTIPLIERS

	30°	50°	70°
CR	(x 1.00)	(x 1.00)	(x 1.00)
SB	(x 0.92)	(x 0.92)	(x 0.93)

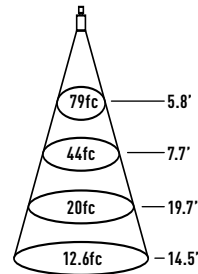
-NF (30° Narrow Flood)



Footcandles at Nadir
Watts: 19 **LPW: 92.7**
Lumens: 1762 **CCT: 3500K**

Luminance	
Degree	CBCP
0°	5862
5°	5406
15°	2679
25°	783
35°	192
45°	29

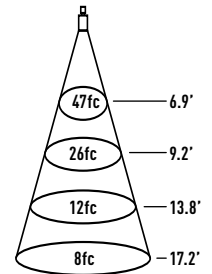
-FL (50° Flood)



Footcandles at Nadir
Watts: 19 **LPW: 100.8**
Lumens: 1916 **CCT: 3500K**

Luminance	
Degree	CBCP
0°	2839
5°	2810
15°	2636
25°	1544
35°	245
45°	31

-WF (70° Wide Flood)



Footcandles at Nadir
Watts: 19 **LPW: 82.7**
Lumens: 1571 **CCT: 3500K**

Luminance	
Degree	CBCP
0°	1692
5°	1658
15°	1435
25°	1055
35°	552
45°	121

SD6DRL4358 IC632C

CCT MULTIPLIERS:

	80 CRI	90 CRI
2700K	(x 0.92)	(x 0.79)
3000K	(x 0.98)	(x 0.79)
3500K	(x 1.00)	(x 0.82)
4000K	(x 1.01)	(x 0.84)

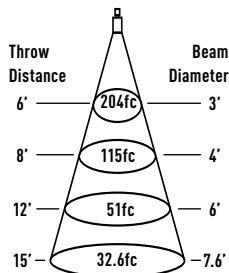
FINISH MULTIPLIERS

	30°	50°	70°
Clear	(x 1.00)	(x 1.00)	(x 1.00)
Haze	(x 0.96)	(x 0.96)	(x 0.88)
White	(x 0.96)	(x 0.97)	(x 0.90)

LENS MULTIPLIERS

	30°	50°	70°
CR	(x 1.00)	(x 1.00)	(x 1.00)
SB	(x 0.92)	(x 0.92)	(x 0.93)

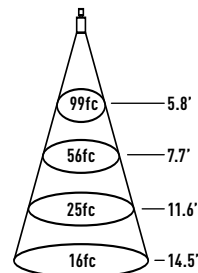
-NF (30° Narrow Flood)



Footcandles at Nadir
Watts: 23 **LPW: 96**
Lumens: 2203 **CCT: 3500K**

Luminance	
Degree	CBCP
0°	7331
5°	6760
15°	3350
25°	979
35°	241
45°	36

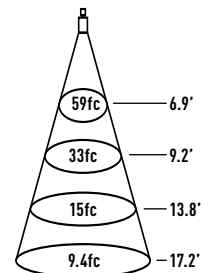
-FL (50° Flood)



Footcandles at Nadir
Watts: 23 **LPW: 96**
Lumens: 2396 **CCT: 3500K**

Luminance	
Degree	CBCP
0°	3550
5°	3514
15°	3296
25°	1931
35°	307
45°	39

-WF (70° Wide Flood)



Footcandles at Nadir
Watts: 23 **LPW: 96**
Lumens: 1965 **CCT: 3500K**

Luminance	
Degree	CBCP
0°	2116
5°	2073
15°	1794
25°	1319
35°	690
45°	151

FEATURES

- Low profile LED wall luminaire with a variety of IES distributions for lighting applications such as retail, commercial and industrial building mount
- Featuring Micro Strike Optics which maximizes target zone illumination with minimal losses at the house-side, reducing light trespass issues
- Visual comfort standard
- Control options including photo control, occupancy sensing, NX Distributed Intelligence™, Wiscap and 7-Pin with networked controls
- Battery Backup options available for emergency code compliance
- Quick-mount adapter allows easy installation/maintenance
- 347V and 480V versions for industrial applications and Canada
- Stock versions available in 3500lm and 5500lm configurations at 4000K



RELATED PRODUCTS

- [Ratio Family](#)
 [Ratio Area](#)
 [Ratio Flood](#)



CONTROL TECHNOLOGY



SPECIFICATIONS

CONSTRUCTION

- Die-cast housing with hidden vertical heat fins that are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with powder coat paint finish
- Powder paint finish provides durability in outdoor environments. Tested to meet 1000 hour salt spray rating.

OPTICS

- Entire optical aperture illuminates to create a larger luminous surface area resulting in a low glare appearance without sacrificing optical performance
- 48 or 160 midpower LEDs
- 3000K, 4000K or 5000K (70 CRI/80 CRI) CCT
- Zero uplight distributions
- LED optics provide IES type II, III and IV distributions. Type II only available in RWL2 configurations.

INSTALLATION

- Quick-mount adapter provides easy installation to wall or to recessed junction boxes (4" square junction box)
- Designed for direct j-box mount.
- Integral back box contains 1/2" conduit hubs
- Integral back box standard with Dual Driver, Dual Power Feed, NX, Wiscap and battery versions (battery versions for RWL1 only)

ELECTRICAL

- 120V-277V universal voltage 50/60Hz 0-10V dimming drivers
- 347V and 480V dimmable driver option for all wattages above 35W.

ELECTRICAL (CONTINUED)

- Ambient operating temperature -40°C to 40°C
- Drivers have greater than .90 power factor and less than 20% Total Harmonic Distortion
- Driver RoHS and IP66
- Field replaceable surge protection device provides 20kA protection meeting ANSI/IEEE C62.41.2 Category C High and Surge Location Category C3; Automatically takes fixture off-line for protection when device is compromised
- Dimming drivers are standard and dimming leads are extended out of the luminaire unless control options require connection to the dimming leads. Must specify if wiring leads are to be greater than 6" standard.

CONTROLS

- Photo control, occupancy sensor and wireless available for complete on/off and dimming control
- Button photocontrol is suitable for 120-277V operation
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)
- NX Distributed Intelligence™ available with in fixture wireless control module, features dimming and occupancy sensor
- WISCAPE® available with in fixture wireless control module, features dimming and occupancy sensor
- Integral Battery Backup provides emergency lighting for the required 90 minute path of egress
- Battery Backup suitable for operating temperatures -25°C to 40°C. RWL1 battery is 12.5W RWL2 battery is 18W

CONTROLS (CONTINUED)

- Dual Driver and Dual Power Feed options creates product configuration with 2 internal drivers for code compliance
- Please consult brand or sales representative when combining control and electrical options as some combinations may not operate as anticipated depending on your application.

CERTIFICATIONS

- Listed to UL1598 and CSAC22.2#250.0-24 for wet locations
- IP65 rated housing
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 04/23/2020. See Buy American Solutions
- DLC® (DesignLights Consortium Qualified), with some Premium Qualified configurations. Please refer to the DLC website for specific product qualifications at www.designlights.org

WARRANTY

- 5 year limited warranty
- See [HLI Standard Warranty](#) for additional information

KEY DATA	
Lumen Range	1,300–18,800
Wattage Range	10–155
Efficacy Range (LPW)	119–148
Fixture Projected Life (Hours)	L70>60K
Weights lbs. (kg)	6.5/16.5 (2.9/7.5)

ORDERING INFORMATION

Series	# LEDs - Wattage	CCT/CRI	Distribution	Voltage	Color					
RWL1 Ratio Wall 1	48L-10	1,000 Lumens ⁴	3K7	3000K, 70 CRI	2	IES TYPE II ¹	UNV	120-277V	BLT	Black Matte Textured
	48L-15	2,000 Lumens ⁴	4K7	4000K, 70 CRI	3	IES TYPE III	120	120V	BLS	Black Gloss Smooth
	48L-20	2,500 Lumens ⁴	5K7	5000K, 70 CRI	4W	IES TYPE IV	208	208V	DBT	Dark Bronze Matte Textured
	48L-25	3,500 Lumens					240	240V	DBS	Dark Bronze Gloss Smooth
	48L-35	4,500 Lumens					277	277V	GTT	Graphite Matte Textured
	48L-45	5,500 Lumens ⁴					347	347V	LGS	Light Grey Gloss Smooth
RWL2 Ratio Wall 2	160L-45	6,500 Lumens					480	480V	LGT	Light Grey Matte Textured
	160L-50	7,500 Lumens							PSS	Platinum Silver Smooth
	160L-65	9,500 Lumens							WHT	White Matte Textured
	160L-80	11,000 Lumens							WHS	White Gloss Smooth
	160L-95	13,000 Lumens							VGT	Verde Green Textured
	160L-115	15,000 Lumens							Color Option	
	160L-135	17,500 Lumens							CC	Custom Color
	160L-155	19,500 Lumens								

Control Options Network	
NXWE	NX Wireless Enabled (module + radio) ^{5,7}
NXSPW_F	NX Wireless, PIR Occ. Sensor, Daylight Harvesting ^{4,5,7}
NXSP_F	NX, PIR Occ. Sensor, Daylight Harvesting ^{4,5,7}
WIR	Wireless Controls, wiSCAPE™ ^{2,6}
Stand Alone Sensors	
SCP-8F	Remote control programmable line voltage sensor ^{3,4}
SCP-20F	Remote control programmable line voltage sensor ^{3,4}
BTS-14F	Bluetooth® Programmable, PIR Occupancy/Daylight Sensor ¹⁰
BTS-40F	Bluetooth® Programmable, PIR Occupancy/Daylight Sensor ¹⁰
BTSO-12F	Bluetooth® Programmable, PIR Occupancy/Daylight Sensor, up to 12' mounting height ¹⁰
Control Options	
7PR_	7-Pin Receptacle ⁶

Options*	
F	Fusing ³
E	Emergency Battery Backup ^{7,8,9}
EH	Emergency Battery w/ Heater Option ^{7,8}
2DR	Dual Driver ^{4,6,11}
2PF	Dual Power Feed ^{4,6,11}
PC	Button Photocontrol ⁸

Notes:

- 1 Only available with RWL2
 - 2 wiSCAPE Gateway required for system programming
 - 3 Specific voltage selection is required
 - 4 Not available with 347/480V
 - 5 Replace "_" with "14" for up to 14' mounting height, "40" for up to 40' mounting height
 - 6 This item is located in the integral backbox which will be automatically added onto the fixture if chosen.
 - 7 This item is located in the integral backbox for RWL1 configurations only.
 - 8 Option only available at 120 or 277V
 - 9 2DR and 2PF can't be combined with E and EH due to space limitations
 - 10 Not available in RWL1 or 2 PF
 - 11 Available only in UNV in 25, 35 and 45 Watt in RWL1; Not available in RWL1 10, 15 and 25 Watt.
- * Based on space limitations, some options may not be able to be combined

STOCK ORDERING INFORMATION

Catalog Number	Lumens	Wattage	LED Count	CCT/CRI	Voltage	Distribution	Finish
RWL1-48L-25-4K-3	3500lm	25	48L	4000K/70CRI	120-277V	Type III	Dark Bronze Textured
RWL1-48L-25-4K-4W	3500lm	25	48L	4000K/70CRI	120-277V	Type IV Wide	Dark Bronze Textured
RWL1-48L-45-4K-3	5500lm	45	48L	4000K/70CRI	120-277V	Type III	Dark Bronze Textured
RWL1-48L-45-4K-4W	5500lm	45	48L	4000K/70CRI	120-277V	Type IV Wide	Dark Bronze Textured

CONTROLS

Control Options	
Standalone	
SCPREMOTE	Order at least one per project location to program and control

ACCESSORIES AND REPLACEMENT PARTS - MADE TO ORDER

Catalog Number	Description
<input type="checkbox"/> WP-BB-XXX	Accessory for conduit entry ¹

Notes:

- 1 replace "xxx" with color option

PERFORMANCE DATA

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 70 CRI)					
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	
RWL1	10	10.1	3	1362	135	0	0	1	1355	134	0	0	1	1303	129	0	0	1	
			4W	1343	133	0	0	1	1336	132	0	0	1	1285	127	0	0	1	
	15	14.5	3	1972	136	1	0	1	1962	135	1	0	1	1887	130	1	0	1	
			4W	1945	134	0	0	1	1935	133	0	0	1	1861	128	0	0	1	
	20	19.9	3	2722	137	1	0	1	2709	136	1	0	1	2605	131	1	0	1	
			4W	2685	135	1	0	1	2672	134	1	0	1	2569	129	1	0	1	
	25	28.0	3	3749	134	1	0	1	3732	133	1	0	1	3588	128	1	0	1	
			4W	3698	132	1	0	1	3680	131	1	0	1	3538	126	1	0	1	
	35	36.9	3	4751	129	1	0	2	4728	128	1	0	2	4546	123	1	0	1	
			4W	4685	127	1	0	2	4663	126	1	0	2	4483	121	1	0	2	
	45	46.5	3	5812	125	1	0	2	5784	124	1	0	2	5562	120	1	0	2	
			4W	5731	123	1	0	2	5704	123	1	0	2	5485	118	1	0	2	
	RWL2	45	46.1	2	6701	145	1	0	2	6668	145	1	0	2	6412	139	1	0	2
				3	6812	148	1	0	2	6780	147	1	0	2	6519	141	1	0	2
4W				6678	145	1	0	2	6646	144	1	0	2	6390	139	1	0	2	
50		54.0	2	7747	143	1	0	2	7710	143	1	0	2	7413	137	1	0	2	
			3	7876	146	1	0	2	7838	145	1	0	2	7537	140	1	0	2	
			4W	7720	143	1	0	2	7683	142	1	0	2	7388	137	1	0	2	
65		67.2	2	9539	142	1	0	2	9494	141	1	0	2	9129	136	1	0	2	
			3	9699	144	2	0	2	9652	144	2	0	2	9281	138	2	0	2	
			4W	9507	141	2	0	2	9461	141	2	0	2	9097	135	2	0	2	
80		80.8	2	11228	139	2	0	2	11174	138	2	0	2	10745	133	2	0	2	
			3	11416	141	2	0	2	11361	141	2	0	2	10924	135	2	0	2	
			4W	11190	138	2	0	2	11136	138	2	0	2	10708	133	2	0	2	
95		93.2	2	13148	141	2	0	2	13085	140	2	0	2	12582	135	2	0	2	
			3	13368	143	2	0	2	13304	143	2	0	2	12792	137	2	0	2	
			4W	13103	141	2	0	2	13040	140	2	0	2	12539	135	2	0	2	
115		109.8	2	15102	138	2	0	3	15030	137	2	0	3	14452	132	2	0	3	
			3	15354	140	2	0	3	15281	139	2	0	3	14693	134	2	0	3	
			4W	15050	137	2	0	3	14978	136	2	0	3	14402	131	2	0	3	
135		137.1	2	17533	128	2	0	3	17449	127	2	0	3	16778	122	2	0	3	
			3	17826	130	2	0	3	17740	129	2	0	3	17058	124	2	0	3	
			4W	17473	127	2	0	3	17389	127	2	0	3	16720	122	2	0	3	
155		156.8	2	19495	124	2	0	3	19402	124	2	0	3	18656	119	2	0	3	
			3	19821	126	2	0	3	19726	126	2	0	3	18967	121	2	0	3	
			4W	19542	125	2	0	3	19448	124	2	0	3	18700	119	2	0	3	

**LUMINAIRE AMBIENT
TEMPERATURE FACTOR (LATF)**

Ambient Temperature		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98
50°C	122°F	0.97

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

PROJECTED LUMEN MAINTENANCE

Ambient Temperature	OPERATING HOURS					
	0	25,000	TM-21-11 L90 36,000	50,000	100,000	L70 (Hours)
25°C / 77°F	1.00	0.97	0.96	0.95	0.91	408,000
40°C / 104°F	0.99	0.96	0.95	0.94	0.89	356,000

ELECTRICAL DATA

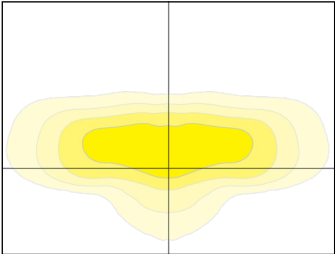
# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
RWL1	10	120	0.08	10.1
		208	0.05	
		240	0.04	
		277	0.04	
		347	0.03	
		480	0.02	
	15	120	0.12	14.5
		208	0.07	
		240	0.06	
		277	0.05	
		347	0.04	
		480	0.03	
	20	120	0.17	19.9
		208	0.10	
		240	0.08	
		277	0.07	
		347	0.06	
		480	0.04	
	25	120	0.23	28.0
		208	0.13	
		240	0.12	
		277	0.10	
		347	0.08	
		480	0.06	
35	120	0.31	36.9	
	208	0.18		
	240	0.15		
	277	0.13		
	347	0.11		
	480	0.08		
45	120	0.39	46.5	
	208	0.22		
	240	0.19		
	277	0.17		
	347	0.13		
	480	0.10		

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
RWL2	45	120	0.38	46.1
		208	0.22	
		240	0.19	
		277	0.17	
		347	0.13	
		480	0.10	
	50	120	0.45	54.0
		208	0.26	
		240	0.23	
		277	0.19	
		347	0.16	
		480	0.11	
	65	120	0.56	67.2
		208	0.32	
		240	0.28	
		277	0.24	
		347	0.19	
		480	0.14	
	80	120	0.67	80.8
		208	0.39	
		240	0.34	
		277	0.29	
		347	0.23	
		480	0.17	
	95	120	0.78	93.2
		208	0.45	
		240	0.39	
		277	0.34	
		347	0.27	
		480	0.19	
	115	120	0.92	109.8
		208	0.53	
		240	0.46	
		277	0.40	
		347	0.32	
		480	0.23	
	135	120	1.14	137.1
		208	0.66	
		240	0.57	
		277	0.49	
		347	0.40	
		480	0.29	
155	120	1.31	156.8	
	208	0.75		
	240	0.65		
	277	0.57		
	347	0.45		
	480	0.33		

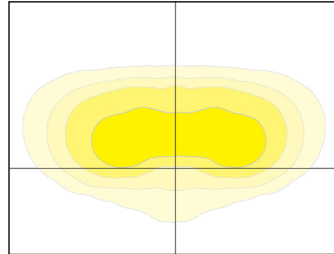
PHOTOMETRY

Mounting Height: 30ft

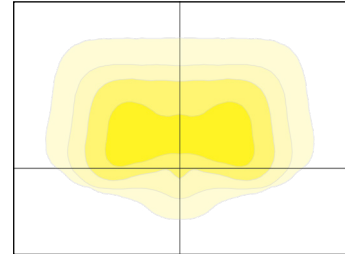
Type II



Type III

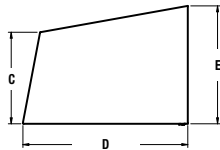
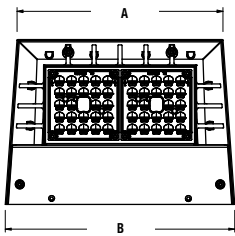


Type VI



DIMENSIONS

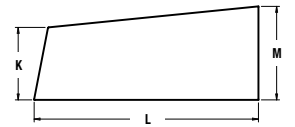
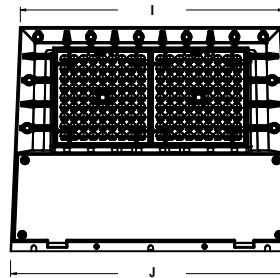
RWL1



A	B	C	D	E
8.7"	9.7"	3.9"	7.0"	5.0"
221mm	246mm	99mm	178mm	127mm

Weight
6.5 lbs (2.95 kgs)

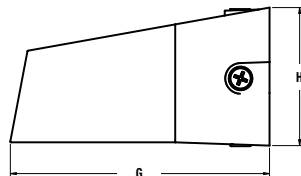
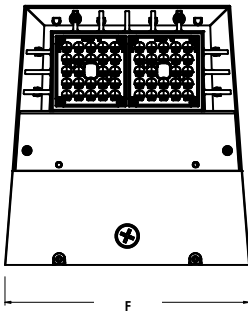
RWL2



I	J	K	L	M
14.0"	15.0"	3.9"	12.0"	5.0"
356mm	381mm	99mm	305mm	127mm

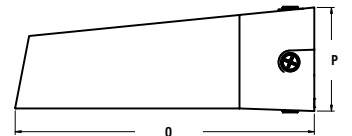
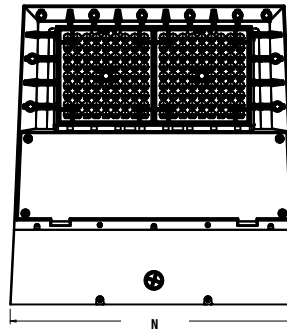
Weight
16.5 lbs (7.48 kgs)

RWL1 with
Integral Back Box



F	G	H
10.4"	11.0"	5.9"
264mm	279mm	150mm

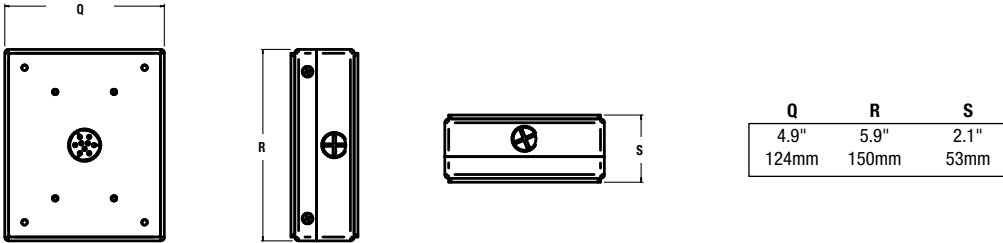
RWL2 with
Integral Back Box



N	O	P
15.4"	16.0"	5.5"
391mm	406mm	140mm

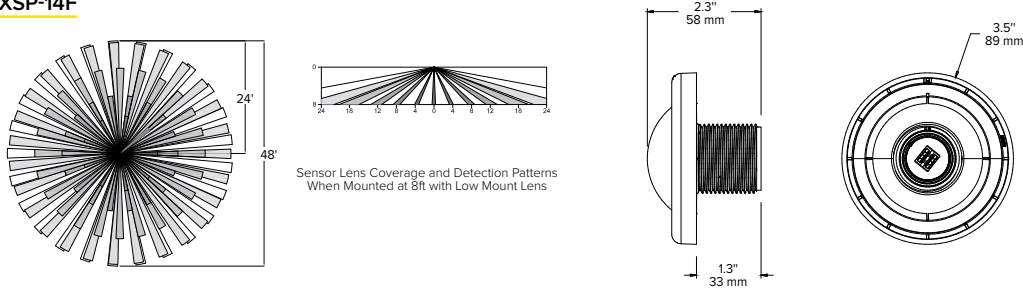
DIMENSIONS (CONTINUED)

Back Box Accessory

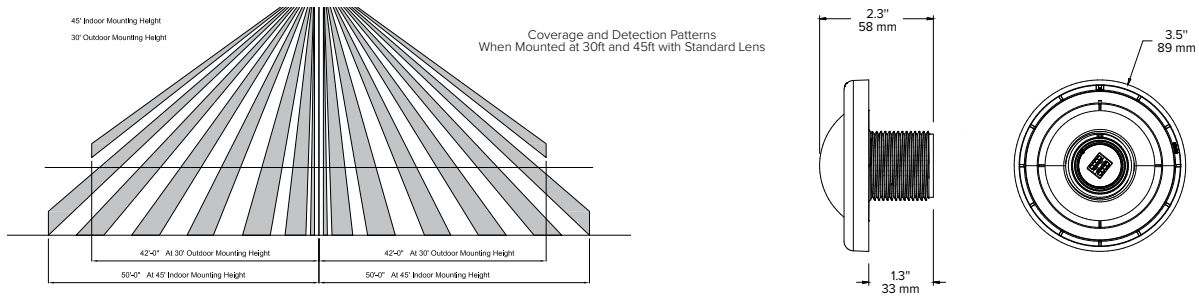


ADDITIONAL INFORMATION

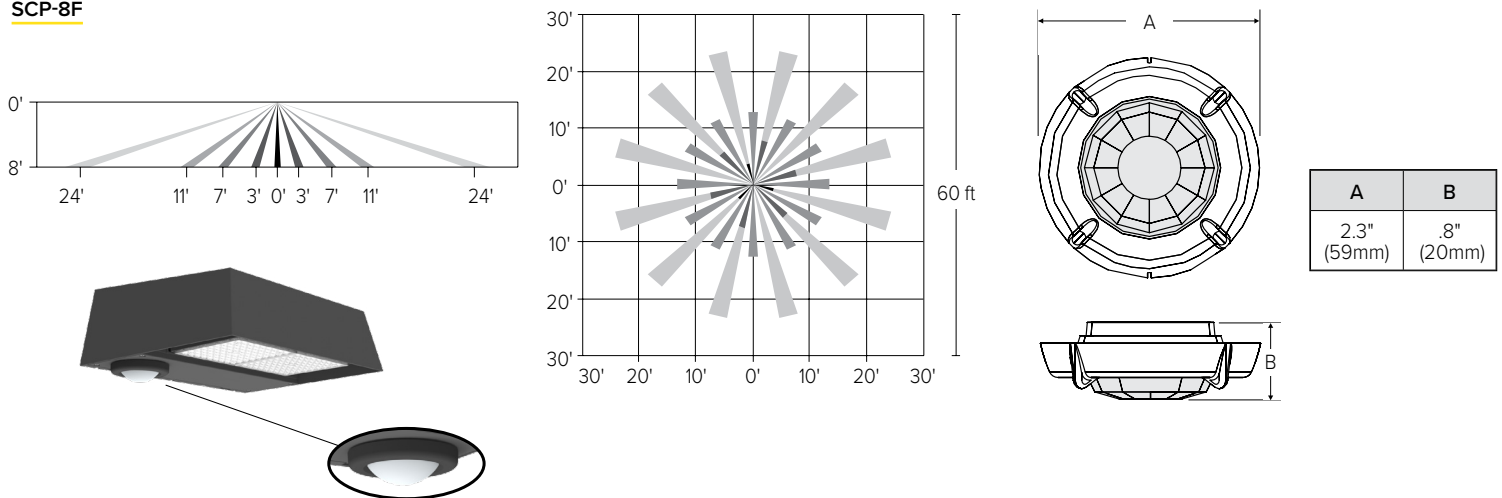
NXSP-14F



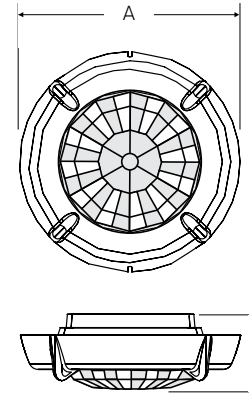
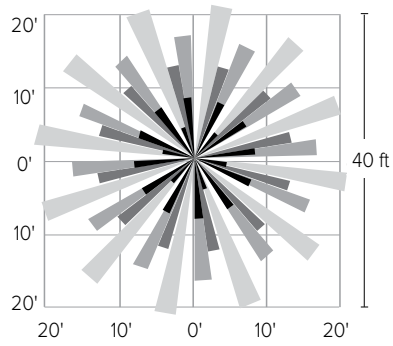
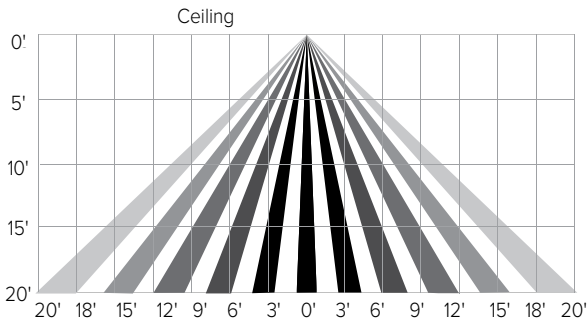
NXSP-40F



SCP-8F

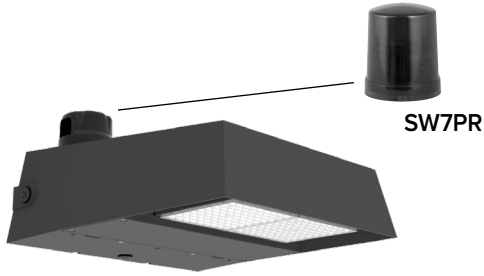


SCP-20F



A	B
2.3" (59mm)	.8" (20mm)

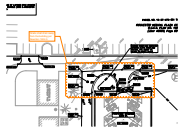
SITESYNC 7-PIN MODULE



- SiteSync features in a new form
- Available as an accessory for new construction or retrofit applications (with existing 7-Pin receptacle)

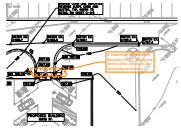
SITE PLAN - COMPLETE PACKAGE.pdf Markup Summary

Building Department (5)



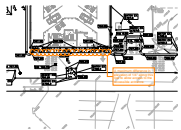
Subject: Building Department
Author: Mark Artinian
Date: 12/19/2022 4:10:29 PM
Status:

Grade shall drain away from the building per
Sewction 1804.3.



Subject: Building Department
Author: Mark Artinian
Date: 12/19/2022 4:11:56 PM
Status:

A maximum difference in elevation of 1/4" along
this line to allow access to the accessible entrance.



Subject: Building Department
Author: Mark Artinian
Date: 12/19/2022 4:13:13 PM
Status:

A maximum difference in elevation of 1/4" along
this line to allow access to the accessible entrance.

Mark Artinian 248-841-2446
ArtinianM@RochesterHills.org

Subject: Building Department
Author: Mark Artinian
Date: 12/19/2022 4:17:57 PM
Status:

Mark Artinian 248-841-2446
ArtinianM@RochesterHills.org

Yes

Subject: Building Department
Author: Mark Artinian
Date: 12/19/2022 4:17:46 PM
Status:

Yes

Engineering Department (2)

Jason Boughton 248-841-2400
BoughtonJB@RochesterHills.org

Subject: Engineering Department
Author: Jason Boughton
Date: 12/20/2022 7:26:41 AM
Status:



Subject: Engineering Department
Author: Jason Boughton
Date: 12/20/2022 7:27:30 AM
Status:

The applicant needs to submit a Land
Improvement Permit (LIP) application with
engineer's estimate, fee and construction plans to
proceed with the construction plan review process.

Fire Department (1)

LT Jon Mills 248-841-2708
MillsJ@RochesterHills.org

Subject: Fire Department
Author: Jon Mills
Date: 1/5/2023 9:57:35 AM
Status:

Group (1)



Subject: Group
Author: C.McLeod
Date: 12/20/2022 3:11:28 PM
Status:

Received
12/19/2022

City of Rochester Hills Planning & Economic
Development

Natural Resouces (1)

Matt Einheuser 248-641-2551
einheuser@rochesterfhs.org Yes

Subject: Natural Resouces
Author: Matt Einheuser
Date: 1/3/2023 3:34:59 PM
Status:

Planning Department (1)

Chris McLeod 248-641-2072
mcleod@rochesterfhs.org Yes

Subject: Planning Department
Author: C.McLeod
Date: 1/5/2023 9:31:11 AM
Status:

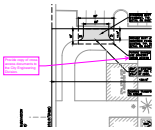
Site Plan Review (1)



JAJ

Subject: Site Plan Review
Author: macdonaldj
Date: 12/19/2022 3:18:12 PM
Status:

Traffic (3)



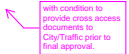
Subject: Traffic
Author: Keith
Date: 12/20/2022 8:20:08 AM
Status:

Provide copy of cross access documents to the City Engineering Division.

Chris McLeod 248-641-2072
mcleod@rochesterfhs.org Yes

Subject: Traffic
Author: Keith
Date: 12/20/2022 8:20:45 AM
Status:

JAA



Subject: Traffic
Author: Keith
Date: 12/20/2022 8:24:15 AM
Status:

with condition to provide cross access documents to City/Traffic prior to final approval.