

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P197941

Luminaire Tested: **TT-C1-LED-E1-RW-LWR-LW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197941
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34693)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C1-LED-E1-RW-LWR-LW-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
RECTANGULAR DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (168) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2431.7 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

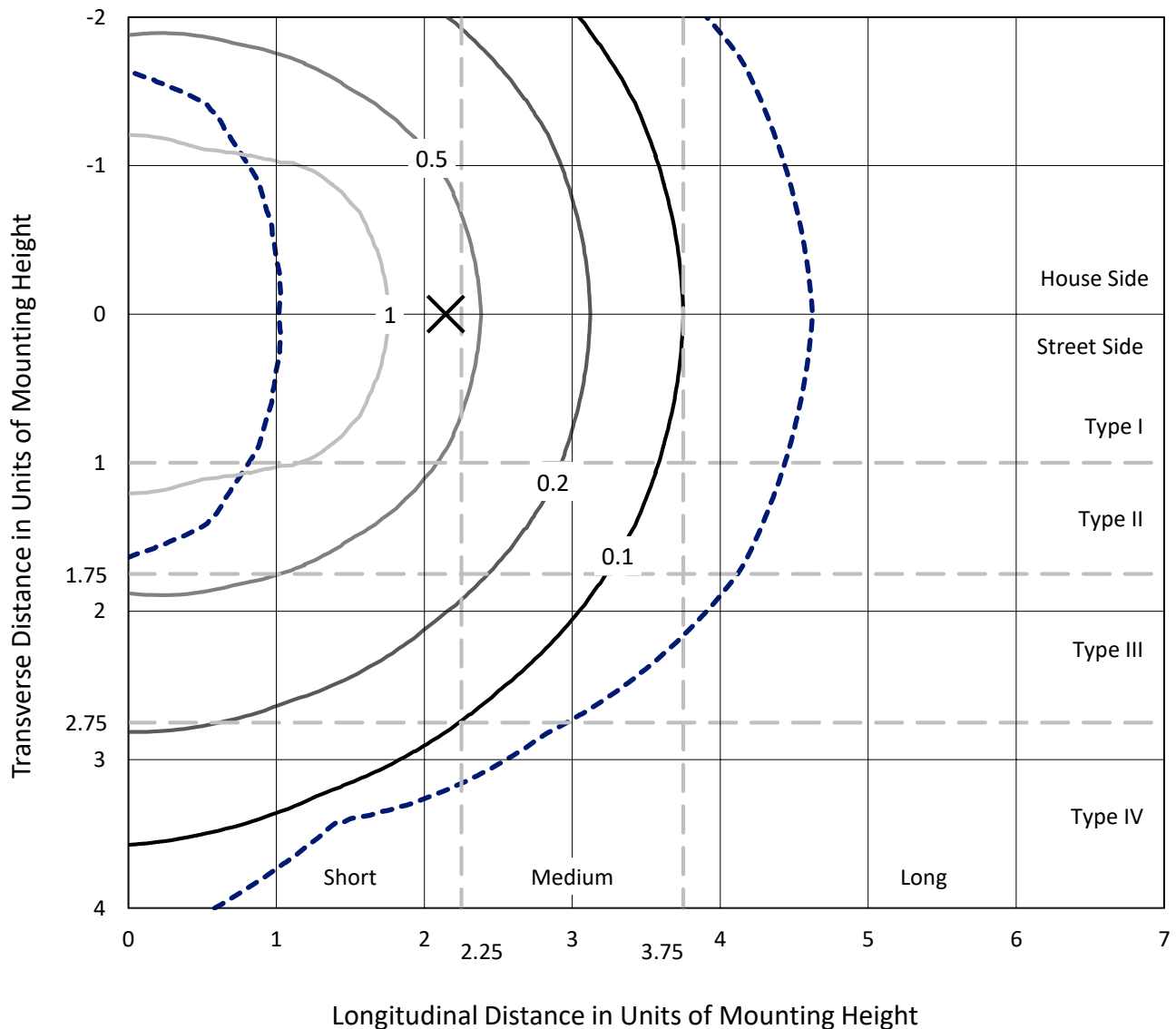


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

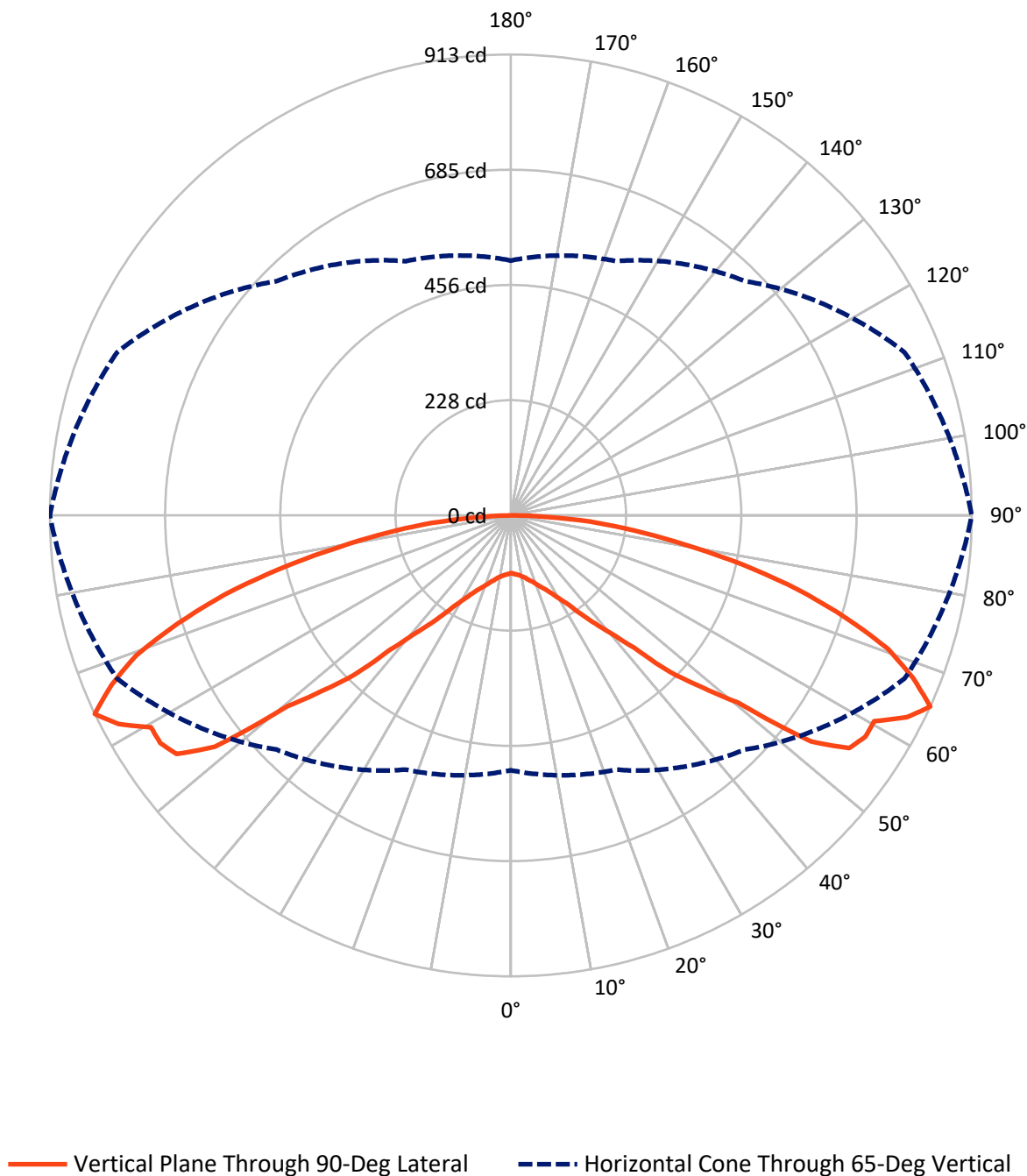


Based on 10 foot mounting height. Maximum calculated value = 1.6 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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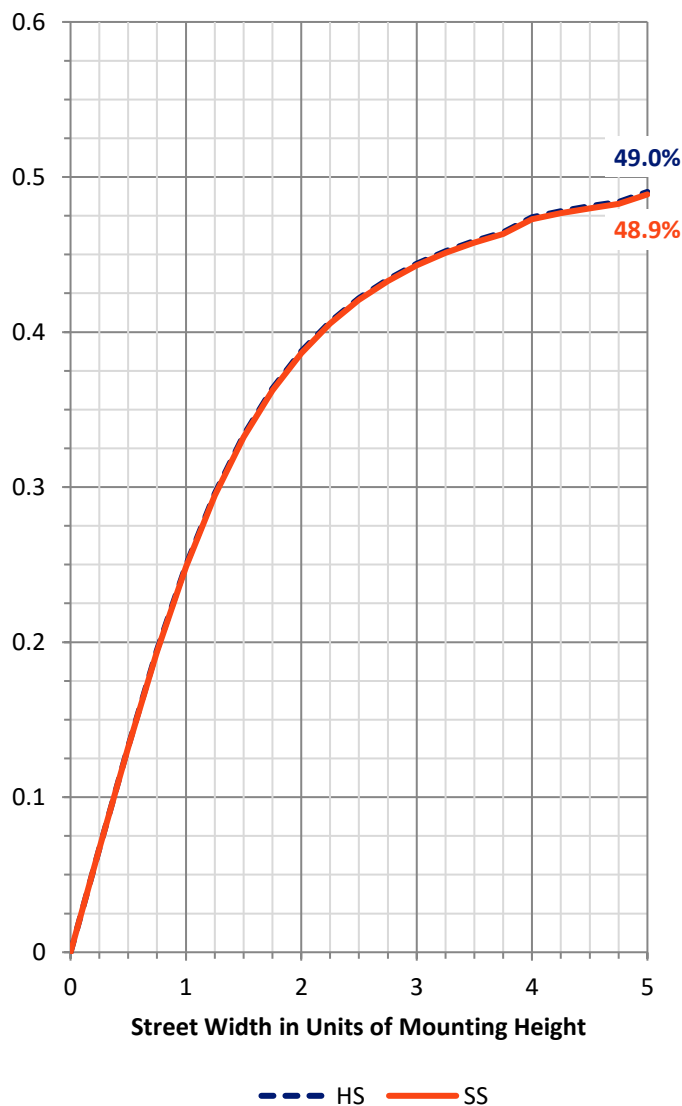
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1215.8	0.0	1215.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1215.8	0.0	1215.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	2431.7	0.0	2431.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.4	0.5
10°-20°	38.8	1.6
20°-30°	81.5	3.4
30°-40°	155.0	6.4
40°-50°	288.0	11.8
50°-60°	510.5	21.0
60°-70°	663.0	27.3
70°-80°	528.1	21.7
80°-90°	155.4	6.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2431.7	100.0
0°-180°	2431.7	100.0

Coefficient of Utilization



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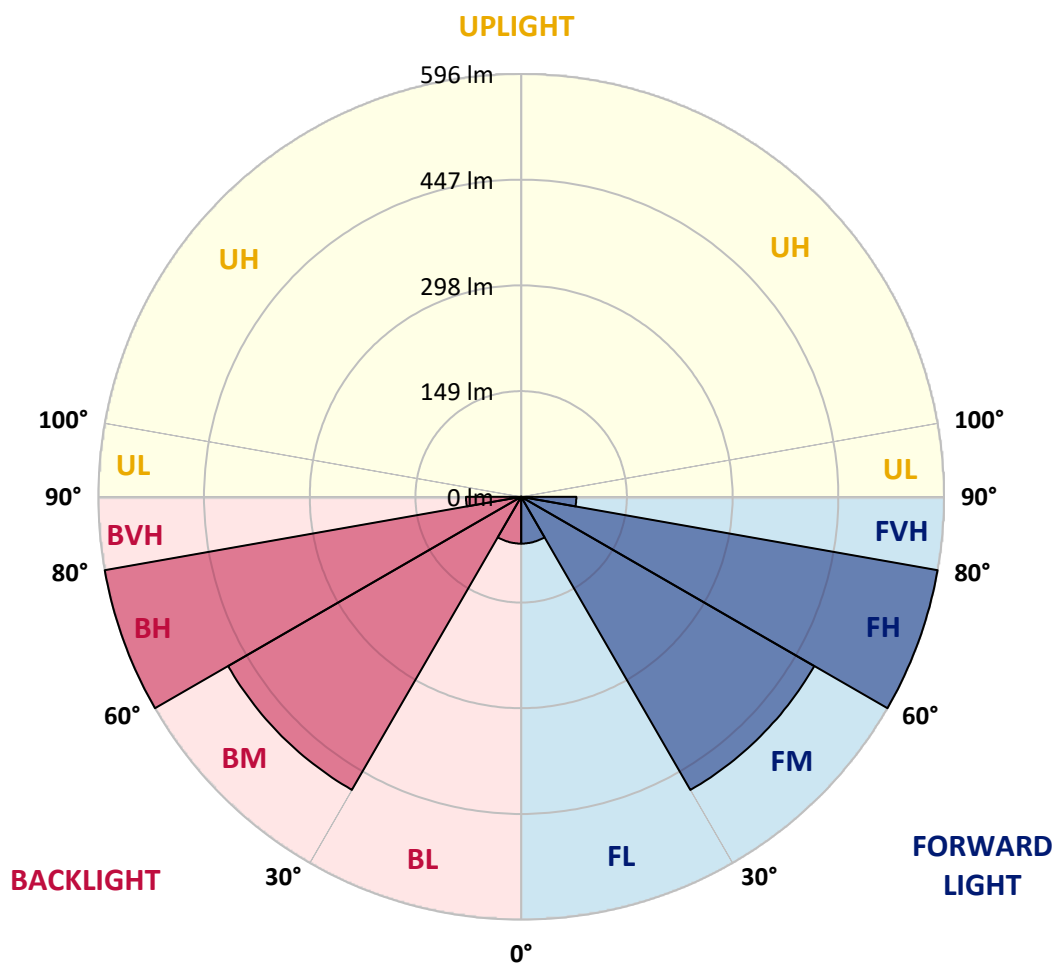
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	65.9	2.7			
FM	(30°-60°)	476.7	19.6			
FH	(60°-80°)	595.5	24.5			G0/660
FVH	(80°-90°)	77.7	3.2			G1/100
BL	(0°-30°)	65.9	2.7	B0/110		
BM	(30°-60°)	476.7	19.6	B1/1000		
BH	(60°-80°)	595.5	24.5	B2/1000		G2/1000
BVH	(80°-90°)	77.7	3.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	114.2	114.2	114.2	114.2	114.2
2.5°	115.3	115.3	115.9	115.9	115.9
5°	117.5	117.5	118.0	118.0	117.5
7.5°	120.1	121.2	120.7	119.6	119.6
10°	124.4	125.0	123.9	123.4	122.8
12.5°	129.8	130.3	128.2	127.7	126.6
15°	137.3	136.8	134.6	132.5	132.5
17.5°	147.5	144.3	140.5	138.9	137.8
20°	159.3	155.0	150.2	146.4	145.9
22.5°	172.7	166.8	160.4	155.0	154.5
25°	185.6	180.8	172.7	165.7	163.6
27.5°	199.5	195.8	185.6	177.5	175.9
30°	215.6	212.4	200.6	193.1	192.6
32.5°	234.4	230.1	217.2	211.9	211.3
35°	256.9	248.9	237.6	233.8	240.3
37.5°	278.4	269.2	260.1	266.6	271.9
40°	297.1	291.2	286.9	300.4	307.9
42.5°	315.4	312.2	315.4	335.2	358.3
45°	334.7	335.8	347.6	401.7	443.0
47.5°	357.2	357.7	385.6	468.8	507.9
50°	381.9	381.3	430.7	519.2	581.9
52.5°	406.0	408.2	475.7	627.5	743.9
55°	427.5	439.3	536.9	736.4	813.6
57.5°	446.2	468.8	594.3	768.6	827.6
60°	466.6	504.2	634.5	775.0	827.1
62.5°	486.5	532.1	643.1	803.5	880.2
65°	504.7	544.9	656.0	844.2	912.9
67.5°	519.7	551.4	656.0	808.8	858.7
70°	532.1	543.3	617.9	745.0	792.2
72.5°	529.4	510.1	555.1	666.7	694.0
75°	504.2	451.6	489.2	561.0	588.4
77.5°	440.9	378.1	398.5	452.1	469.8
80°	349.2	295.0	306.8	341.1	346.5
82.5°	246.2	211.9	216.1	242.4	246.2
85°	144.8	130.3	126.0	149.6	157.2
87.5°	42.9	37.5	37.0	45.1	49.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)