

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: P198266

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198266
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (P27139) AND SCALED
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-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
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: 3259.2 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U4 - G2

Input Watts (W): 45.4
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

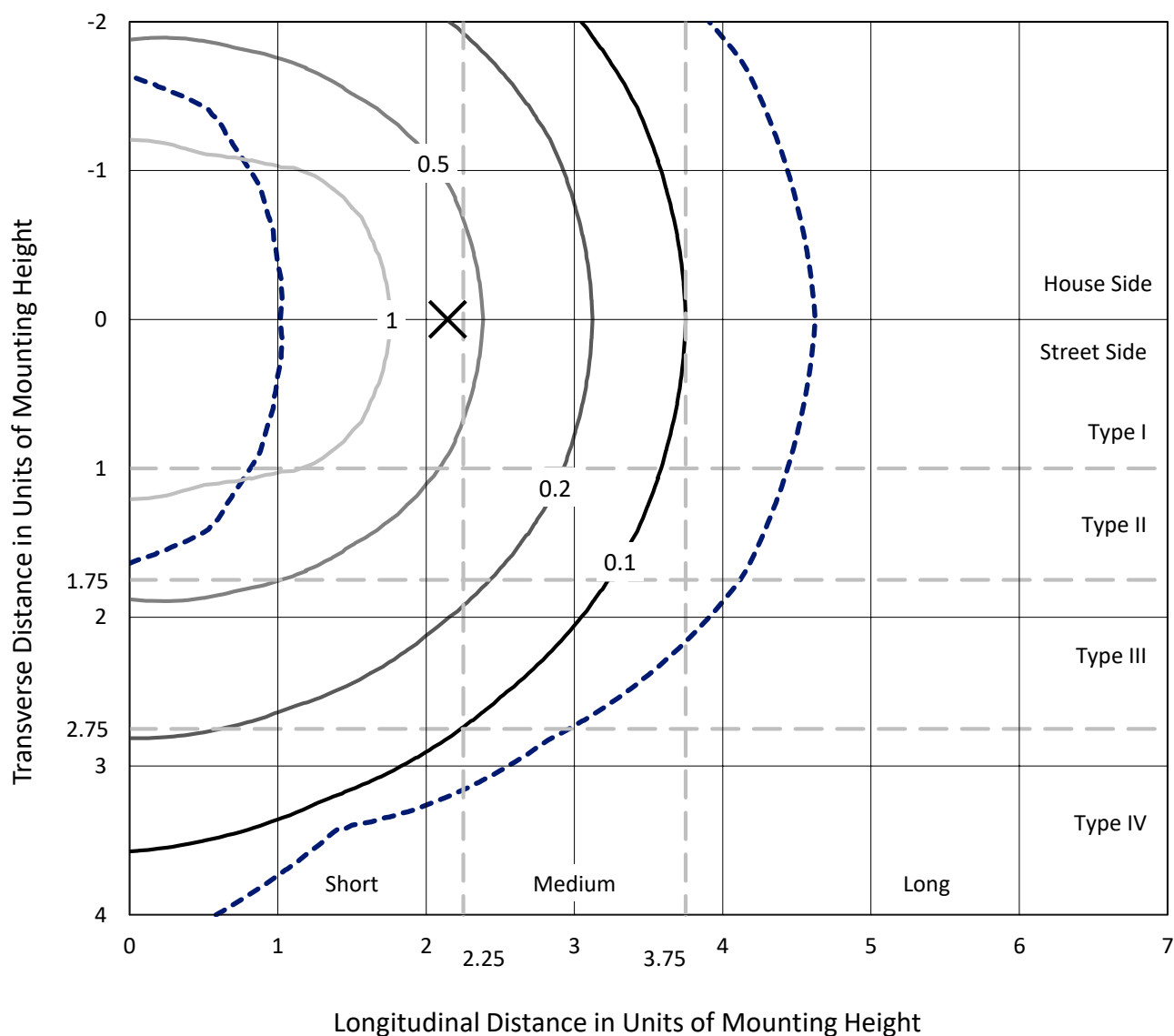


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

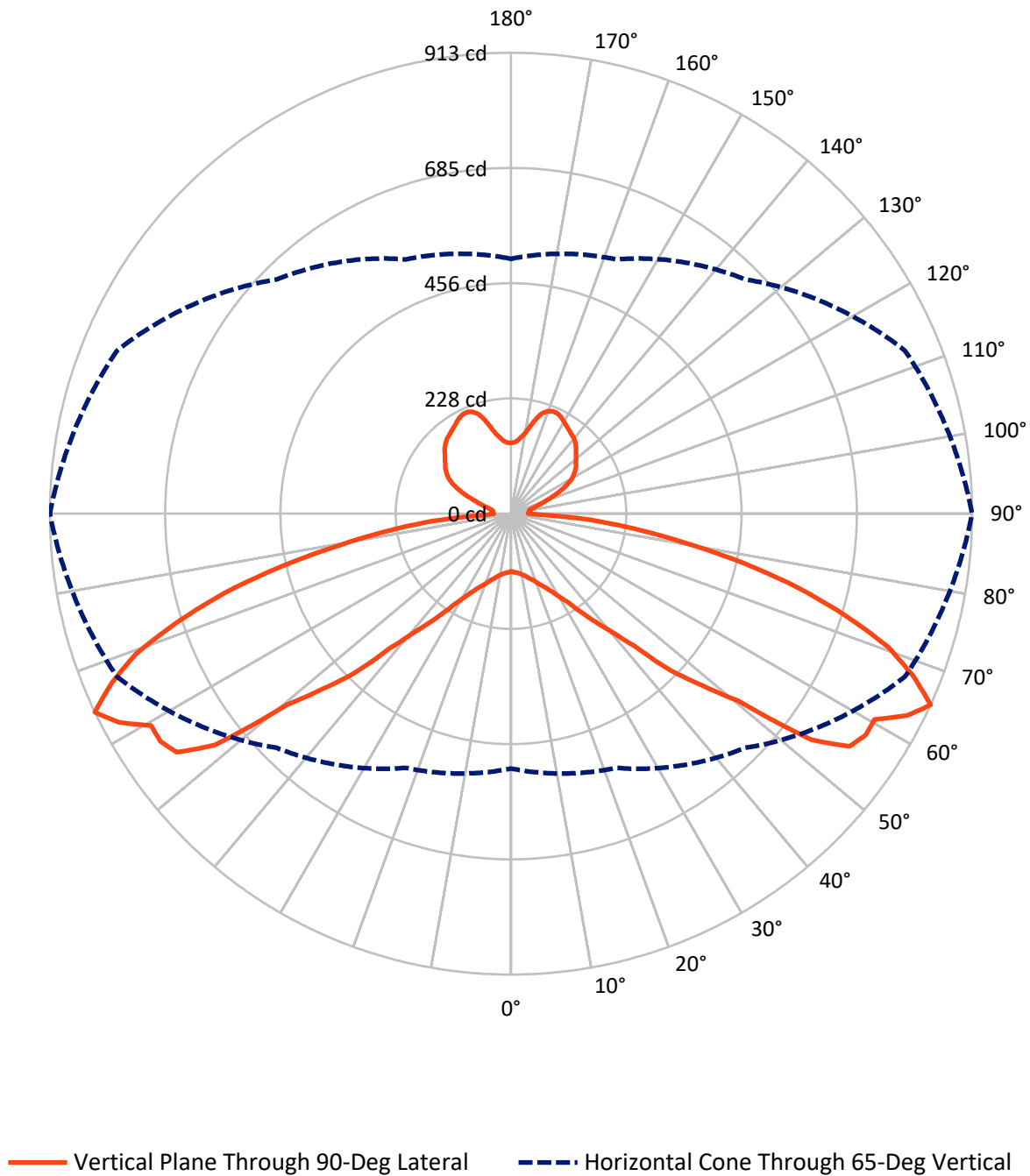


Based on 10 foot mounting height. Maximum calculated value = 1.6 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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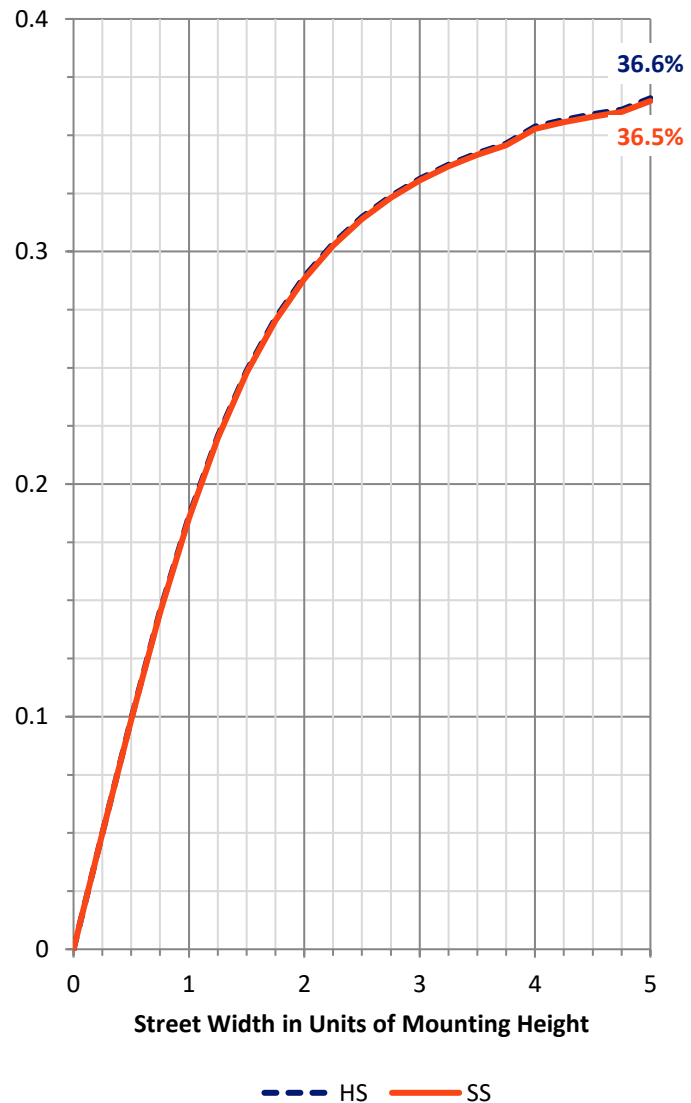
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1218.0	411.6	1629.6
	% Fixture	37.4	12.6	50.0
Street Side	Lumens	1218.0	411.6	1629.6
	% Fixture	37.4	12.6	50.0
Total	Lumens	2436.0	823.2	3259.2
	% Fixture	74.7	25.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.4	0.4
10°-20°	38.8	1.2
20°-30°	81.5	2.5
30°-40°	155.0	4.8
40°-50°	288.0	8.8
50°-60°	510.5	15.7
60°-70°	663.0	20.3
70°-80°	528.1	16.2
80°-90°	159.7	4.9
90°-100°	38.2	1.2
100°-110°	59.5	1.8
110°-120°	118.9	3.6
120°-130°	148.3	4.5
130°-140°	152.8	4.7
140°-150°	136.2	4.2
150°-160°	103.9	3.2
160°-170°	51.8	1.6
170°-180°	13.6	0.4
0°-90°	2436.0	74.7
0°-180°	3259.2	100.0

Coefficient of Utilization



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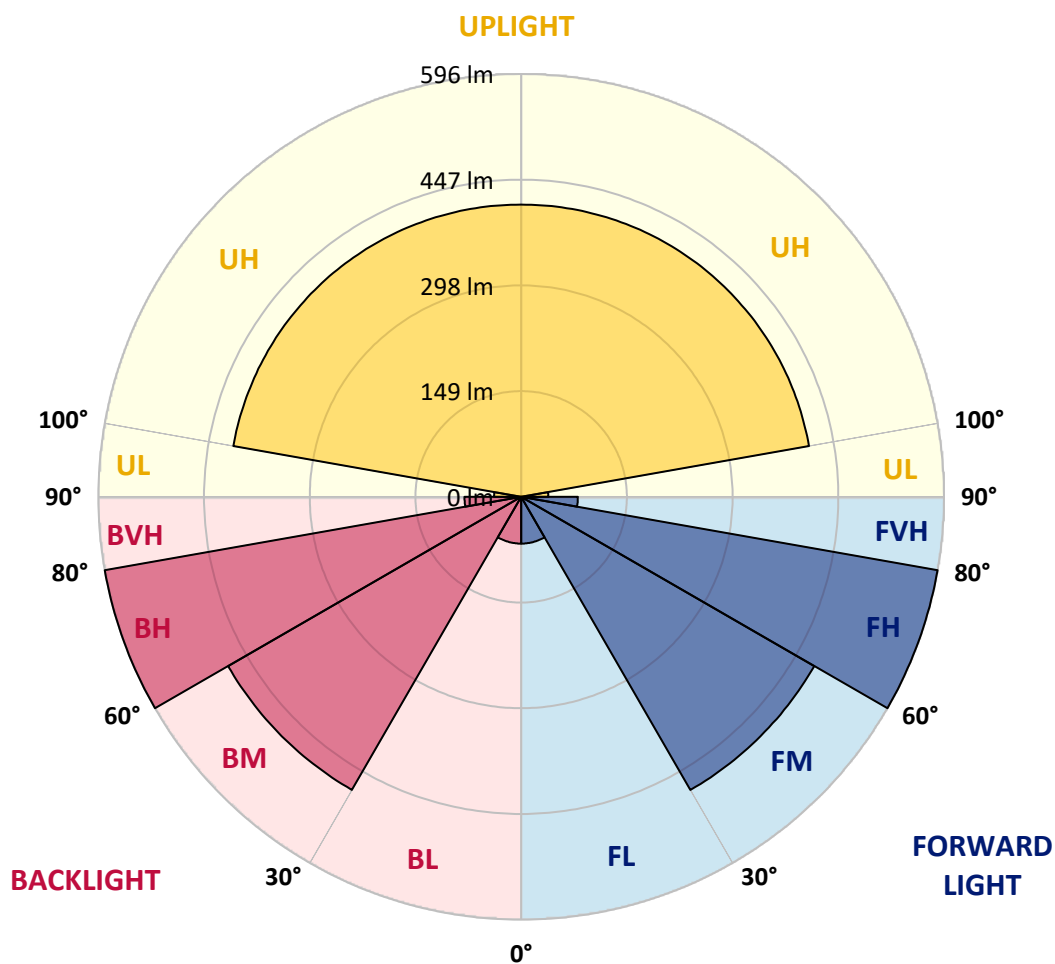
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	65.9	2.0			
FM	(30°-60°)	476.7	14.6			
FH	(60°-80°)	595.5	18.3			G0/660
FVH	(80°-90°)	79.9	2.5			G1/100
BL	(0°-30°)	65.9	2.0	B0/110		
BM	(30°-60°)	476.7	14.6	B1/1000		
BH	(60°-80°)	595.5	18.3	B2/1000		G2/1000
BVH	(80°-90°)	79.9	2.5			G1/100
UL	(90°-100°)	38.2	1.2		U2/50	
UH	(100°-180°)	411.6	12.6		U3/500	

BUG Rating: B2-U4-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°	36.0	34.5	26.0	32.5	34.0
92.5°	40.0	35.0	27.0	32.5	36.0
95°	44.0	37.0	30.0	34.5	38.0
97.5°	42.0	37.5	33.0	34.5	36.0
100°	45.0	41.0	36.0	38.0	37.0
102.5°	51.0	46.5	42.0	43.0	41.0
105°	60.0	54.5	52.0	52.0	49.0
107.5°	72.0	67.5	68.0	64.5	60.0
110°	86.0	85.5	87.0	82.5	75.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	101.0	106.5	107.0	104.0	94.0
115°	121.0	127.0	124.0	124.5	113.0
117.5°	140.0	141.0	136.0	140.0	129.0
120°	152.0	150.0	147.0	150.5	142.0
122.5°	161.0	156.5	158.0	159.0	150.0
125°	169.0	165.5	168.0	166.0	158.0
127.5°	177.0	174.0	178.0	174.0	163.0
130°	187.0	182.0	186.0	182.0	169.0
132.5°	198.0	189.5	195.0	190.5	176.0
135°	210.0	195.5	201.0	200.0	184.0
137.5°	221.0	200.0	208.0	208.5	190.0
140°	229.0	202.5	213.0	215.5	195.0
142.5°	235.0	203.5	218.0	220.0	198.0
145°	235.0	204.5	223.0	222.0	202.0
147.5°	230.0	208.5	229.0	223.5	206.0
150°	224.0	214.5	235.0	226.0	211.0
152.5°	216.0	220.0	241.0	229.0	216.0
155°	208.0	223.0	243.0	230.5	219.0
157.5°	203.0	222.0	235.0	227.5	219.0
160°	199.0	212.5	219.0	219.0	215.0
162.5°	185.0	193.5	198.0	200.5	207.0
165°	169.0	173.0	177.0	181.0	192.0
167.5°	154.0	155.5	159.0	164.5	174.0
170°	142.0	144.0	147.0	152.0	160.0
172.5°	137.0	138.5	141.0	144.5	151.0
175°	136.0	137.0	139.0	140.5	144.0
177.5°	137.0	138.0	139.0	139.0	141.0
180°	140.0	140.0	140.0	140.0	140.0

(END OF REPORT)