

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: P198332

Luminaire Tested: **TT-C2-LED-E1-RW-LWR-LW-8030-UPL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198332
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (P27139) AND DOWNLIGHT
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: TT-C2-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: 3778.7 lumens
Efficiency: N/A
Efficacy: 73.5 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): 51.4
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

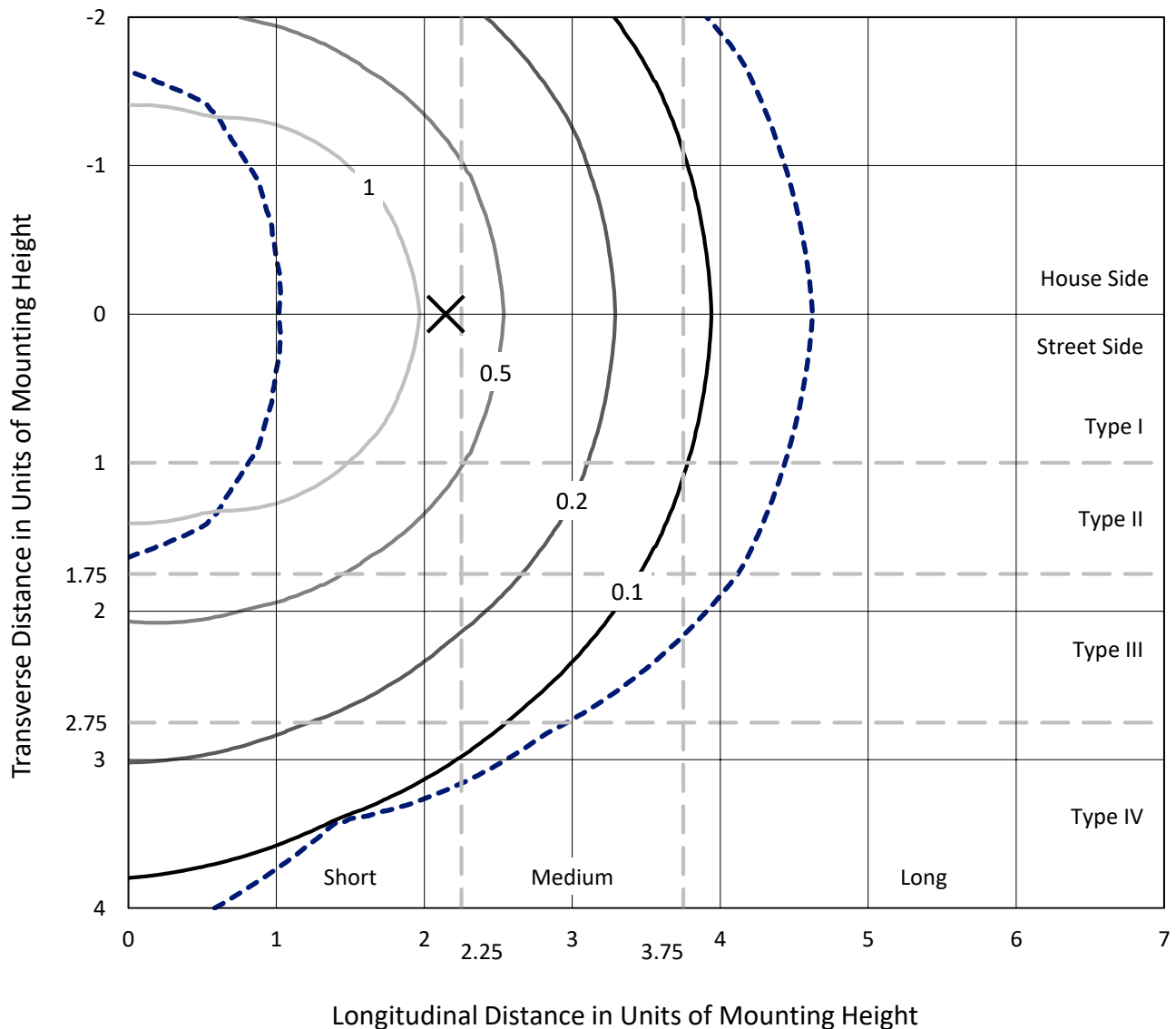


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

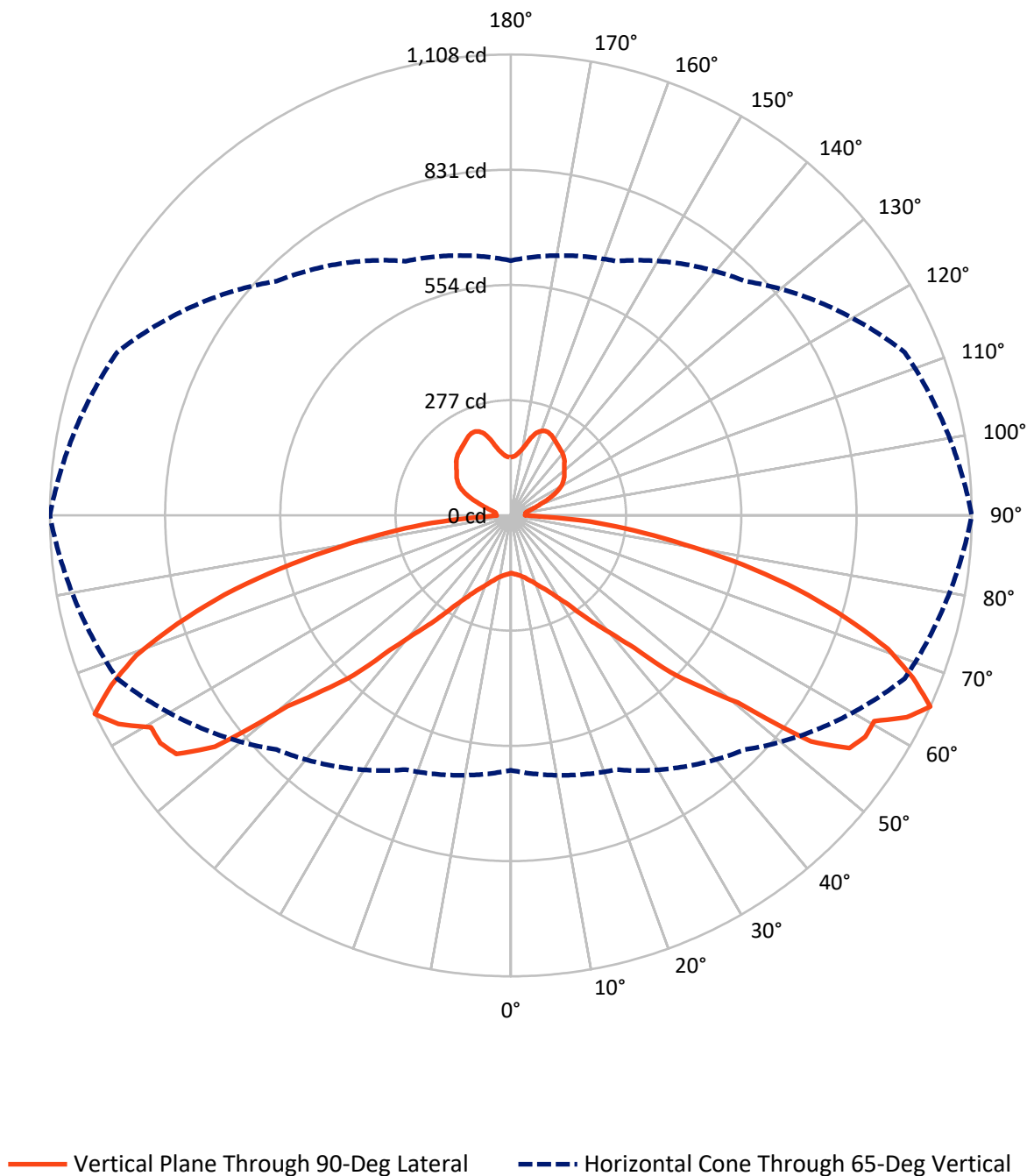


Based on 10 foot mounting height. Maximum calculated value = 2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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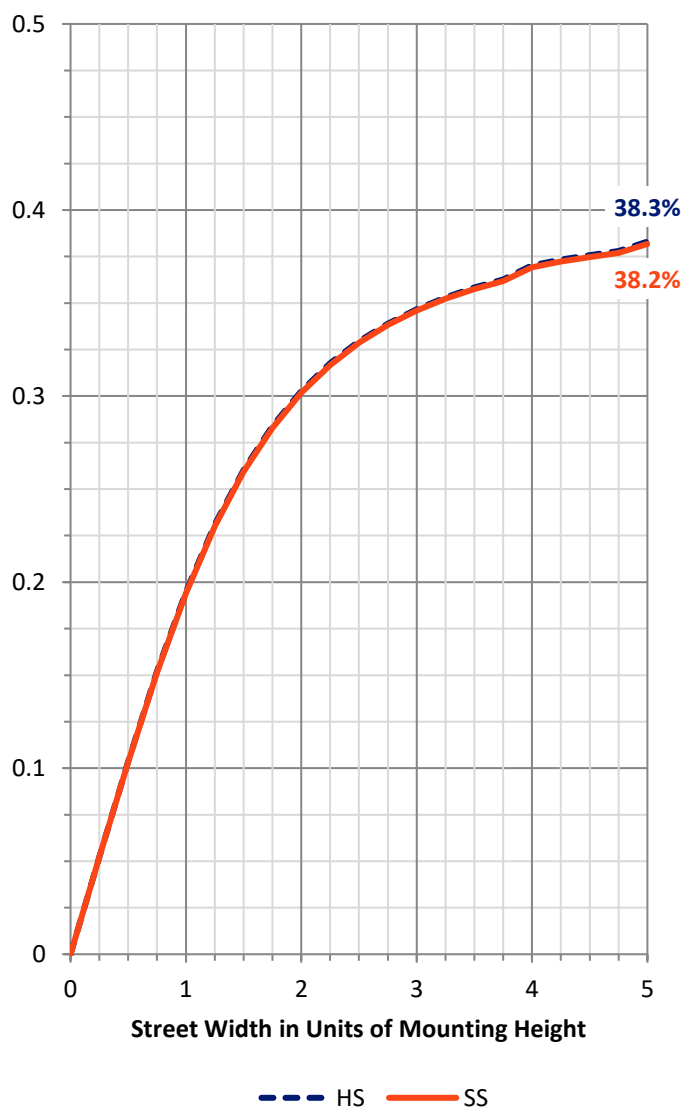
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1477.7	411.6	1889.3
	% Fixture	39.1	10.9	50.0
Street Side	Lumens	1477.7	411.6	1889.3
	% Fixture	39.1	10.9	50.0
Total	Lumens	2955.5	823.2	3778.7
	% Fixture	78.2	21.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.9	0.4
10°-20°	47.1	1.2
20°-30°	98.9	2.6
30°-40°	188.1	5.0
40°-50°	349.6	9.3
50°-60°	619.5	16.4
60°-70°	804.6	21.3
70°-80°	640.9	17.0
80°-90°	192.9	5.1
90°-100°	38.2	1.0
100°-110°	59.5	1.6
110°-120°	118.9	3.1
120°-130°	148.3	3.9
130°-140°	152.8	4.0
140°-150°	136.2	3.6
150°-160°	103.9	2.7
160°-170°	51.8	1.4
170°-180°	13.6	0.4
0°-90°	2955.5	78.2
0°-180°	3778.7	100.0

Coefficient of Utilization



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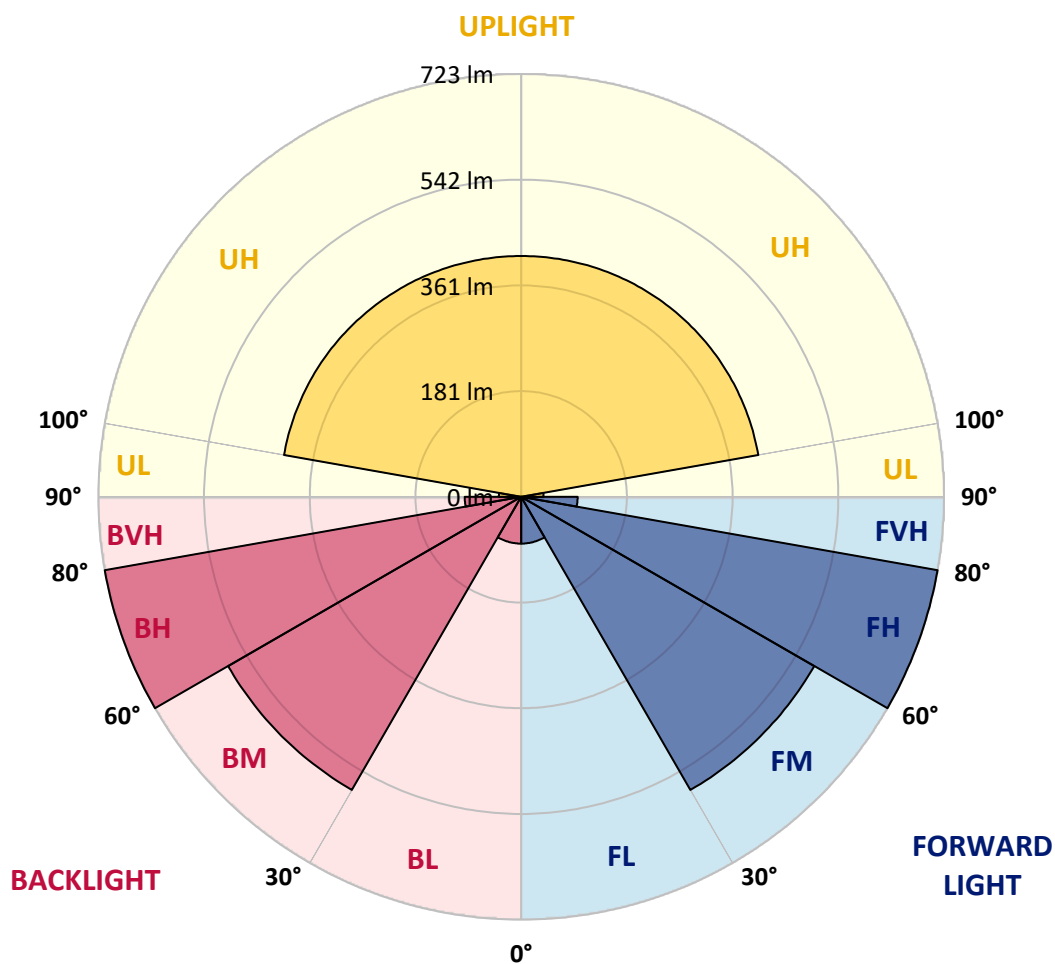
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	79.9	2.1			
FM	(30°-60°)	578.6	15.3			
FH	(60°-80°)	722.7	19.1			G1/1800
FVH	(80°-90°)	96.5	2.6			G1/100
BL	(0°-30°)	79.9	2.1	B0/110		
BM	(30°-60°)	578.6	15.3	B1/1000		
BH	(60°-80°)	722.7	19.1	B2/1000		G2/1000
BVH	(80°-90°)	96.5	2.6			G1/100
UL	(90°-100°)	38.2	1.0		U2/50	
UH	(100°-180°)	411.6	10.9		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°	138.6	138.6	138.6	138.6	138.6
2.5°	140.0	140.0	140.6	140.6	140.6
5°	142.6	142.6	143.2	143.2	142.6
7.5°	145.8	147.1	146.5	145.2	145.2
10°	151.0	151.7	150.4	149.7	149.1
12.5°	157.5	158.2	155.6	154.9	153.6
15°	166.6	166.0	163.4	160.8	160.8
17.5°	179.0	175.1	170.5	168.6	167.3
20°	193.3	188.1	182.3	177.7	177.1
22.5°	209.6	202.4	194.6	188.1	187.5
25°	225.2	219.4	209.6	201.1	198.5
27.5°	242.1	237.6	225.2	215.5	213.5
30°	261.7	257.8	243.4	234.3	233.7
32.5°	284.5	279.2	263.6	257.1	256.5
35°	311.8	302.0	288.4	283.8	291.6
37.5°	337.8	326.8	315.7	323.5	330.0
40°	360.6	353.5	348.2	364.5	373.6
42.5°	382.7	378.8	382.7	406.8	434.8
45°	406.2	407.5	421.8	487.5	537.7
47.5°	433.5	434.2	468.0	568.9	616.4
50°	463.5	462.8	522.7	630.1	706.3
52.5°	492.8	495.4	577.4	761.6	902.8
55°	518.8	533.1	651.6	893.7	987.5
57.5°	541.6	568.9	721.2	932.8	1004.4
60°	566.3	611.9	770.1	940.6	1003.7
62.5°	590.4	645.7	780.5	975.1	1068.2
65°	612.5	661.3	796.1	1024.6	1107.9
67.5°	630.8	669.2	796.1	981.6	1042.1
70°	645.7	659.4	749.9	904.1	961.4
72.5°	642.5	619.0	673.7	809.1	842.3
75°	611.9	548.1	593.6	680.9	714.1
77.5°	535.1	458.9	483.6	548.7	570.2
80°	423.8	358.0	372.3	414.0	420.5
82.5°	298.8	257.1	262.3	294.2	298.8
85°	175.8	158.2	153.0	181.6	190.7
87.5°	52.1	45.6	44.9	54.7	60.5
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)