

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: P198398

Luminaire Tested: **TT-C3-LED-E1-RW-LWR-LW-8030-UPL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198398
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-C3-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: 4707.9 lumens
Efficiency: N/A
Efficacy: 75.4 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): 62.4
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



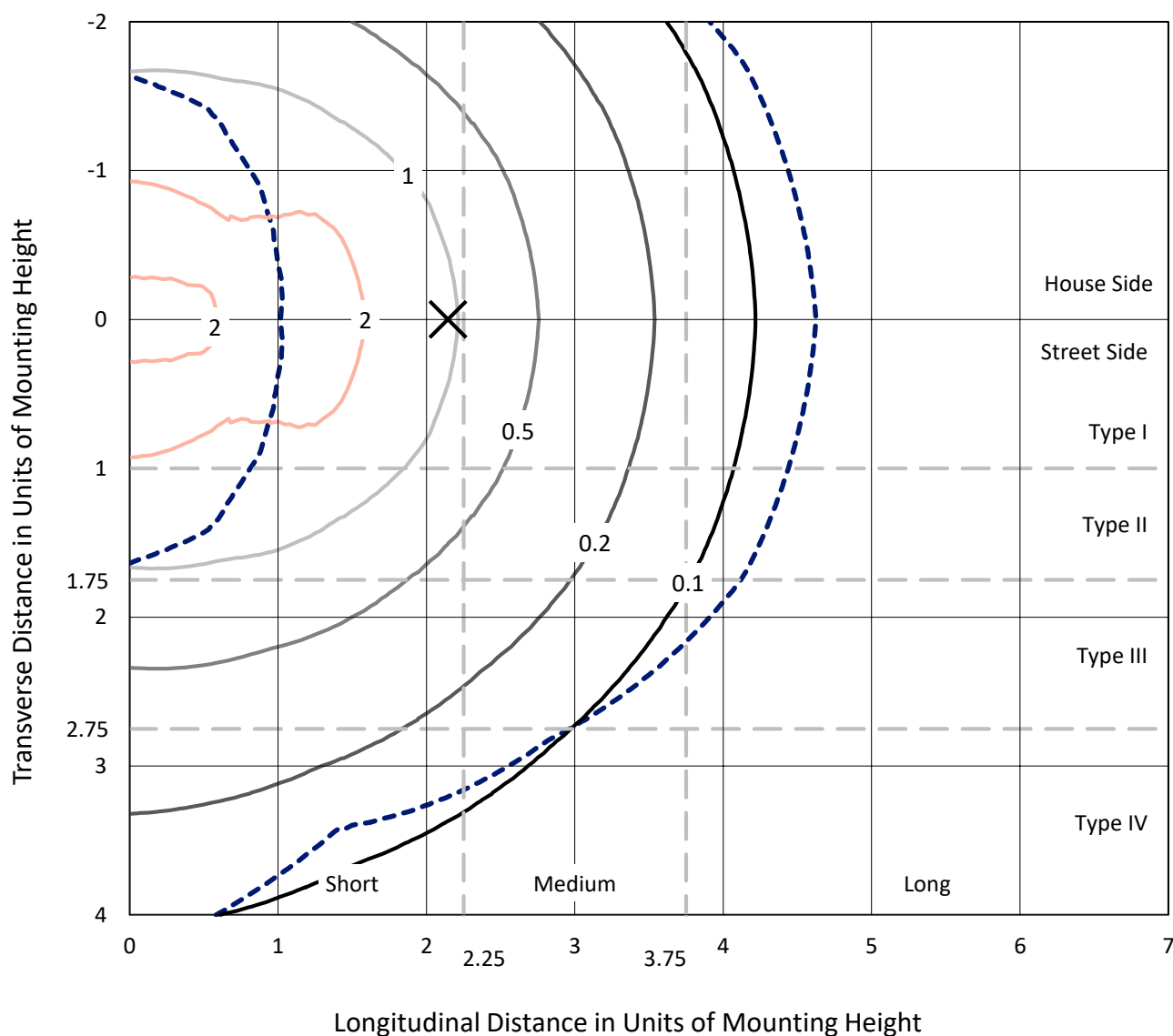
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

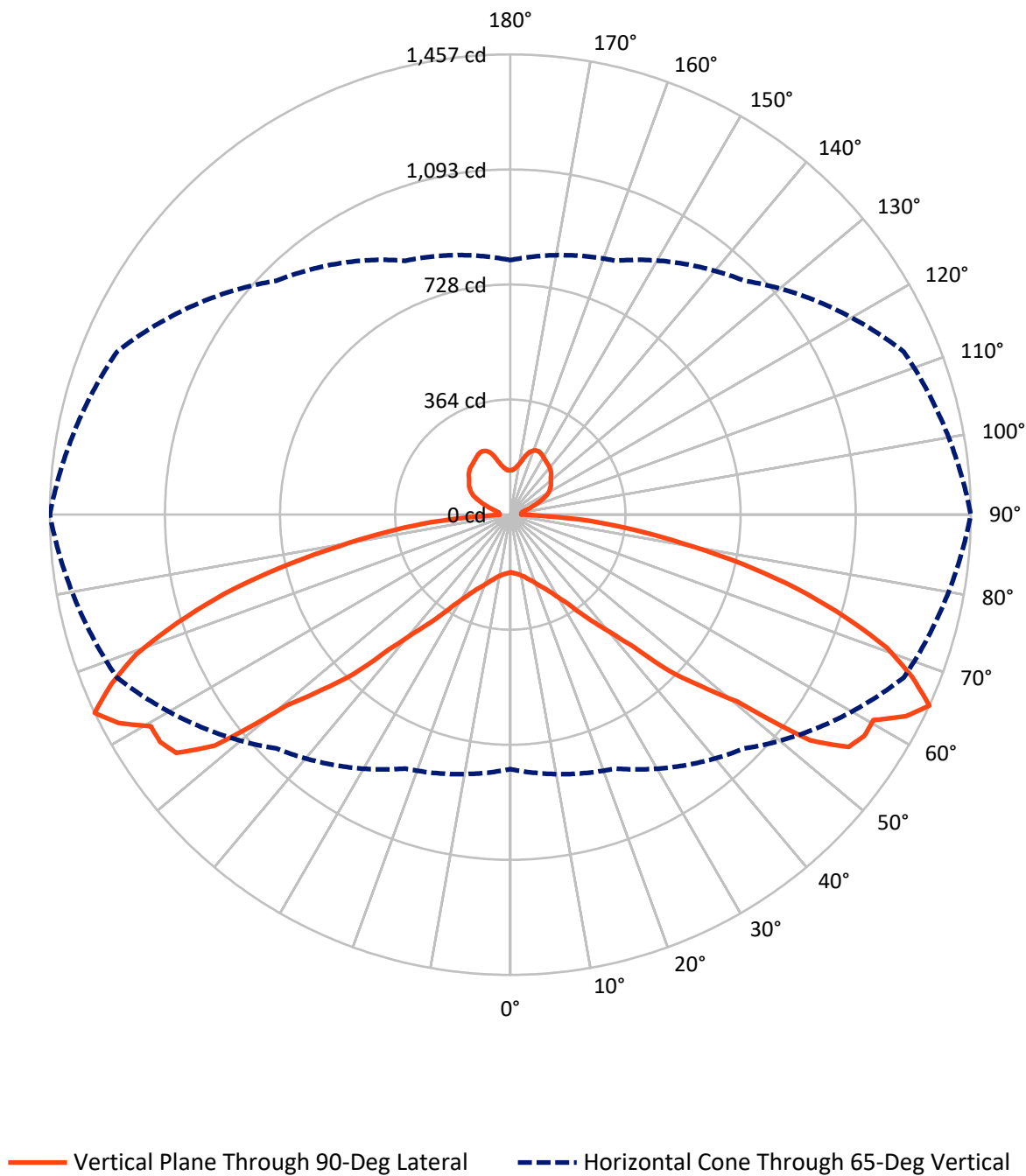


Based on 10 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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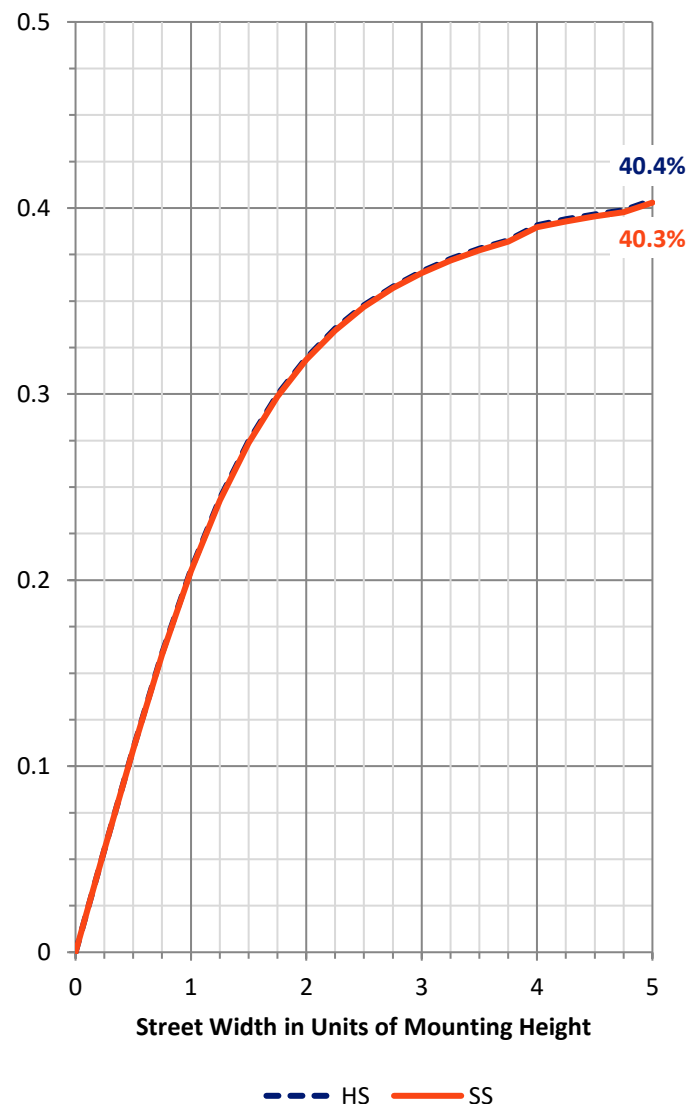
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1942.4	411.6	2353.9
	% Fixture	41.3	8.7	50.0
Street Side	Lumens	1942.4	411.6	2353.9
	% Fixture	41.3	8.7	50.0
Total	Lumens	3884.7	823.2	4707.9
	% Fixture	82.5	17.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.2	0.4
10°-20°	62.0	1.3
20°-30°	130.1	2.8
30°-40°	247.3	5.3
40°-50°	459.7	9.8
50°-60°	814.6	17.3
60°-70°	1058.0	22.5
70°-80°	842.7	17.9
80°-90°	252.3	5.4
90°-100°	38.2	0.8
100°-110°	59.5	1.3
110°-120°	118.9	2.5
120°-130°	148.3	3.1
130°-140°	152.8	3.2
140°-150°	136.2	2.9
150°-160°	103.9	2.2
160°-170°	51.8	1.1
170°-180°	13.6	0.3
0°-90°	3884.7	82.5
0°-180°	4707.9	100.0

Coefficient of Utilization



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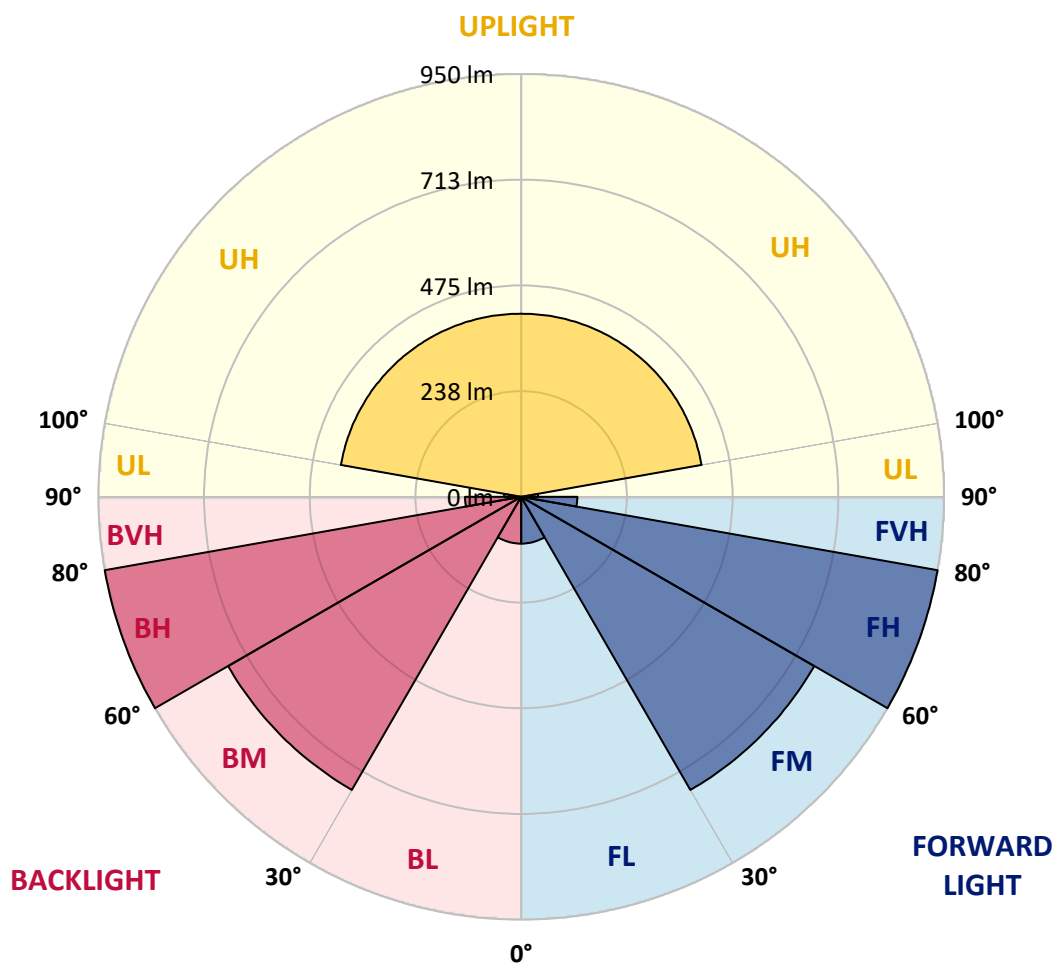
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	105.1	2.2			
FM	(30°-60°)	760.8	16.2			
FH	(60°-80°)	950.3	20.2			G1/1800
FVH	(80°-90°)	126.2	2.7			G2/225
BL	(0°-30°)	105.1	2.2	B0/110		
BM	(30°-60°)	760.8	16.2	B1/1000		
BH	(60°-80°)	950.3	20.2	B2/1000		G2/1000
BVH	(80°-90°)	126.2	2.7			G2/225
UL	(90°-100°)	38.2	0.8		U2/50	
UH	(100°-180°)	411.6	8.7		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°	182.3	182.3	182.3	182.3	182.3
2.5°	184.0	184.0	184.9	184.9	184.9
5°	187.4	187.4	188.3	188.3	187.4
7.5°	191.7	193.4	192.6	190.9	190.9
10°	198.6	199.4	197.7	196.9	196.0
12.5°	207.1	208.0	204.6	203.7	202.0
15°	219.1	218.3	214.8	211.4	211.4
17.5°	235.4	230.2	224.2	221.7	220.0
20°	254.2	247.4	239.6	233.7	232.8
22.5°	275.6	266.2	255.9	247.4	246.5
25°	296.1	288.4	275.6	264.5	261.0
27.5°	318.4	312.4	296.1	283.3	280.7
30°	344.1	338.9	320.1	308.1	307.3
32.5°	374.0	367.2	346.6	338.1	337.2
35°	410.0	397.1	379.2	373.2	383.4
37.5°	444.2	429.7	415.1	425.4	433.9
40°	474.2	464.7	457.9	479.3	491.3
42.5°	503.3	498.1	503.3	534.9	571.7
45°	534.1	535.8	554.6	641.1	707.0
47.5°	570.0	570.9	615.4	748.0	810.5
50°	609.4	608.5	687.3	828.5	928.6
52.5°	647.9	651.3	759.2	1001.4	1187.1
55°	682.1	701.0	856.7	1175.1	1298.4
57.5°	712.1	748.0	948.3	1226.5	1320.6
60°	744.6	804.5	1012.5	1236.8	1319.8
62.5°	776.3	849.0	1026.2	1282.1	1404.5
65°	805.4	869.6	1046.7	1347.2	1456.7
67.5°	829.4	879.9	1046.7	1290.7	1370.3
70°	849.0	867.0	986.0	1188.8	1264.1
72.5°	844.8	813.9	885.8	1063.9	1107.5
75°	804.5	720.7	780.6	895.3	938.9
77.5°	703.5	603.4	635.9	721.5	749.8
80°	557.2	470.7	489.6	544.3	552.9
82.5°	392.9	338.1	344.9	386.9	392.9
85°	231.1	208.0	201.1	238.8	250.8
87.5°	68.5	59.9	59.1	71.9	79.6
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)