

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: P198267

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198267
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-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
RECTANGULAR DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3668.7 lumens
Efficiency: N/A
Efficacy: 80.8 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



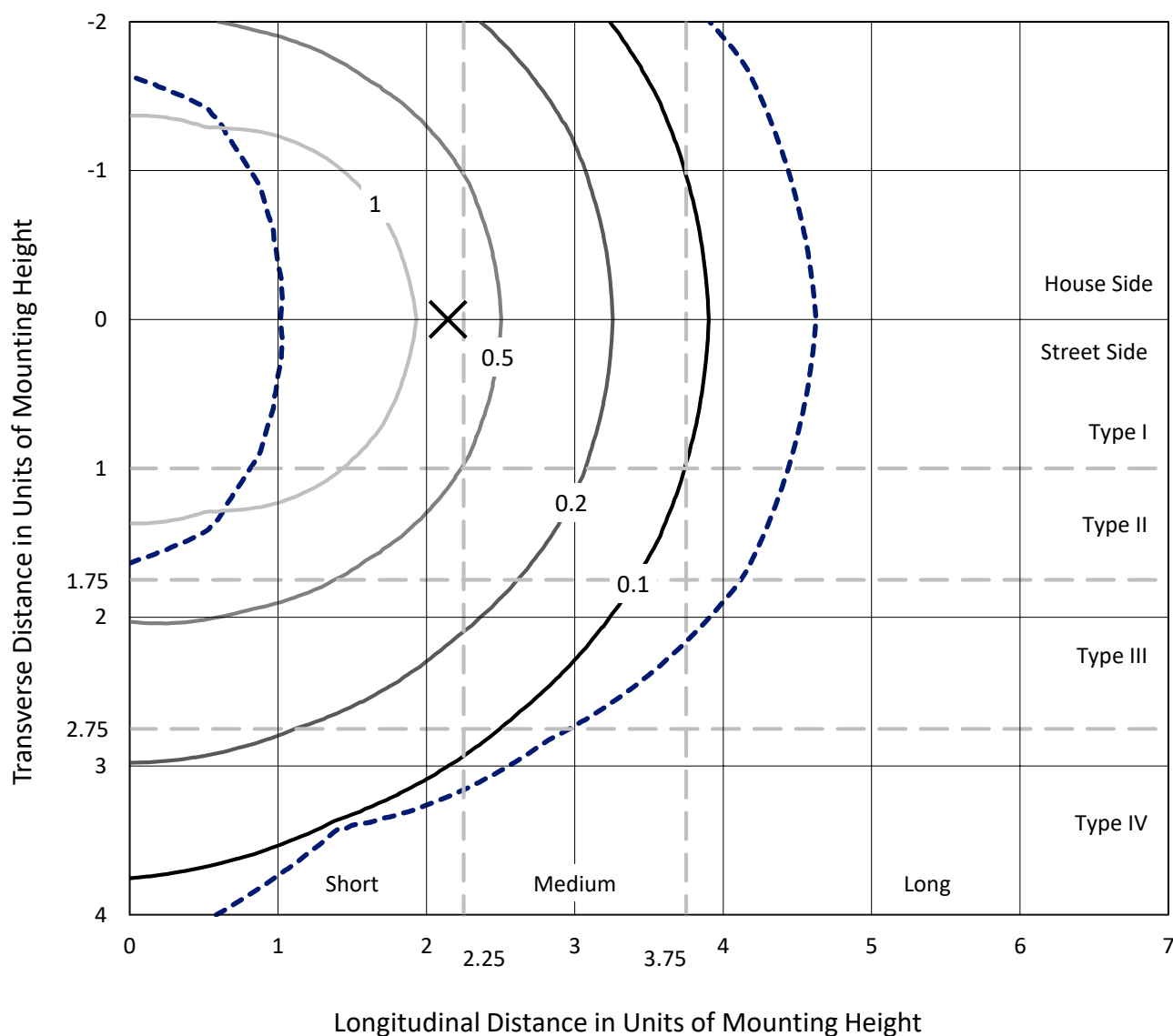
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

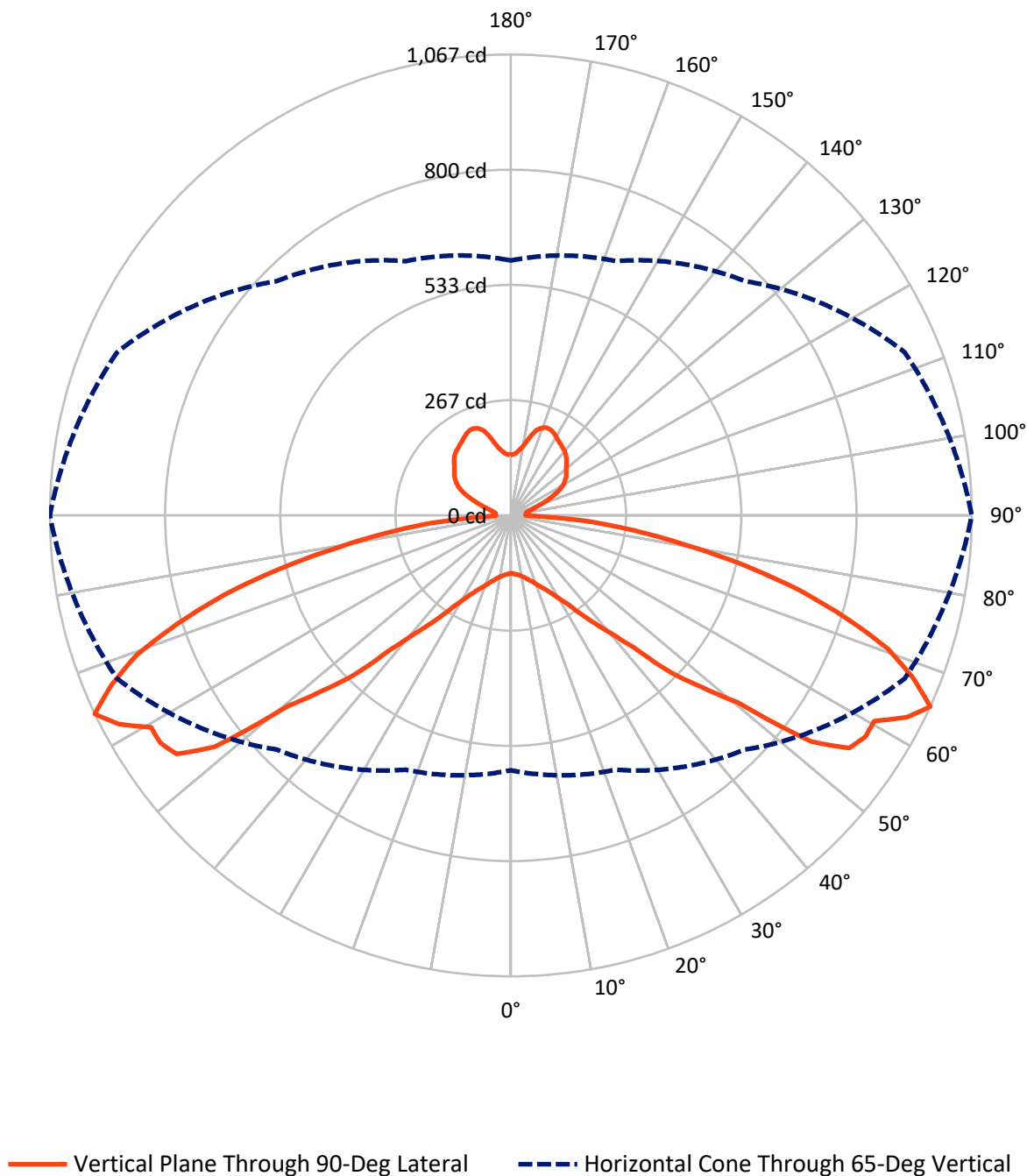


Based on 10 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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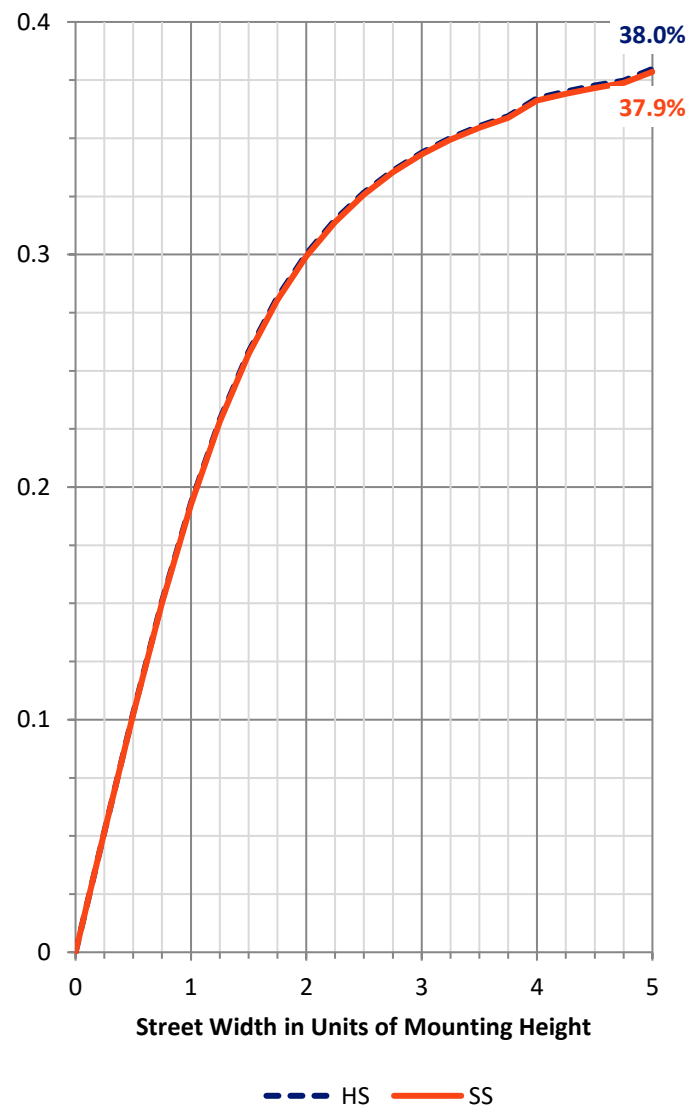
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1422.7	411.6	1834.3
	% Fixture	38.8	11.2	50.0
Street Side	Lumens	1422.7	411.6	1834.3
	% Fixture	38.8	11.2	50.0
Total	Lumens	2845.5	823.2	3668.7
	% Fixture	77.6	22.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.3	0.4
10°-20°	45.4	1.2
20°-30°	95.2	2.6
30°-40°	181.1	4.9
40°-50°	336.6	9.2
50°-60°	596.4	16.3
60°-70°	774.6	21.1
70°-80°	617.0	16.8
80°-90°	185.9	5.1
90°-100°	38.2	1.0
100°-110°	59.5	1.6
110°-120°	118.9	3.2
120°-130°	148.3	4.0
130°-140°	152.8	4.2
140°-150°	136.2	3.7
150°-160°	103.9	2.8
160°-170°	51.8	1.4
170°-180°	13.6	0.4
0°-90°	2845.5	77.6
0°-180°	3668.7	100.0

Coefficient of Utilization



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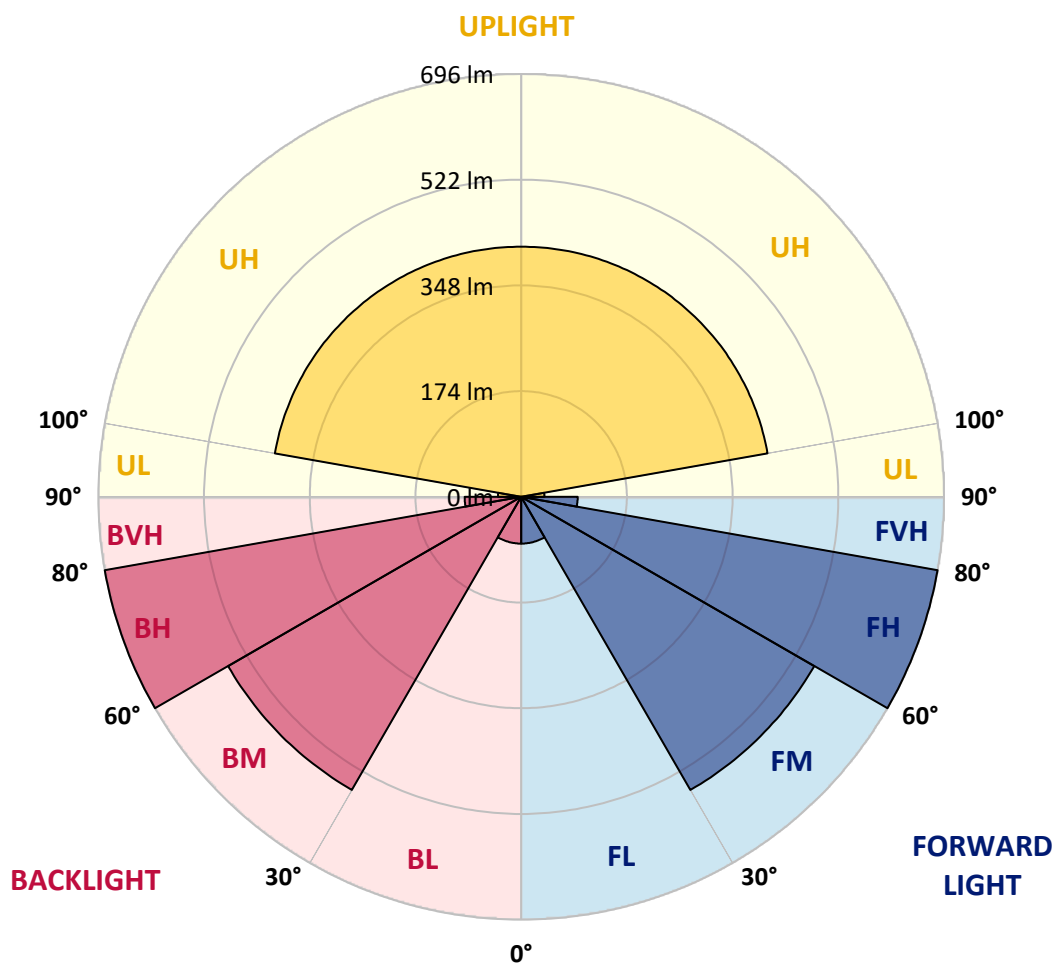
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	77.0	2.1			
FM	(30°-60°)	557.0	15.2			
FH	(60°-80°)	695.8	19.0			G1/1800
FVH	(80°-90°)	93.0	2.5			G1/100
BL	(0°-30°)	77.0	2.1	B0/110		
BM	(30°-60°)	557.0	15.2	B1/1000		
BH	(60°-80°)	695.8	19.0	B2/1000		G2/1000
BVH	(80°-90°)	93.0	2.5			G1/100
UL	(90°-100°)	38.2	1.0		U2/50	
UH	(100°-180°)	411.6	11.2		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°	133.5	133.5	133.5	133.5	133.5
2.5°	134.7	134.7	135.4	135.4	135.4
5°	137.2	137.2	137.9	137.9	137.2
7.5°	140.4	141.6	141.0	139.7	139.7
10°	145.4	146.0	144.8	144.1	143.5
12.5°	151.7	152.3	149.8	149.1	147.9
15°	160.4	159.8	157.3	154.8	154.8
17.5°	172.3	168.6	164.2	162.3	161.1
20°	186.1	181.1	175.5	171.1	170.5
22.5°	201.8	194.9	187.4	181.1	180.5
25°	216.8	211.2	201.8	193.6	191.1
27.5°	233.1	228.7	216.8	207.4	205.5
30°	251.9	248.2	234.4	225.6	225.0
32.5°	273.9	268.8	253.8	247.5	246.9
35°	300.2	290.8	277.6	273.2	280.7
37.5°	325.2	314.6	303.9	311.5	317.7
40°	347.2	340.3	335.3	350.9	359.7
42.5°	368.5	364.7	368.5	391.7	418.6
45°	391.0	392.3	406.1	469.4	517.6
47.5°	417.4	418.0	450.6	547.7	593.5
50°	446.2	445.6	503.2	606.6	679.9
52.5°	474.4	476.9	555.9	733.2	869.2
55°	499.5	513.2	627.3	860.4	950.6
57.5°	521.4	547.7	694.3	898.0	966.9
60°	545.2	589.1	741.3	905.5	966.3
62.5°	568.4	621.7	751.4	938.7	1028.4
65°	589.7	636.7	766.4	986.4	1066.6
67.5°	607.2	644.2	766.4	945.0	1003.3
70°	621.7	634.8	721.9	870.4	925.6
72.5°	618.5	596.0	648.6	778.9	810.9
75°	589.1	527.7	571.5	655.5	687.4
77.5°	515.1	441.8	465.6	528.3	549.0
80°	408.0	344.7	358.5	398.6	404.8
82.5°	287.6	247.5	252.5	283.3	287.6
85°	169.2	152.3	147.3	174.8	183.6
87.5°	50.1	43.9	43.2	52.6	58.3
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)