

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: P198453

Luminaire Tested: **TT-C4-LED-E1-RW-LWR-LW-UPL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198453
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-C4-LED-E1-RW-LWR-LW-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
RECTANGULAR DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (160) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6197.3 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U4 - G3

Input Watts (W): 75.4
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

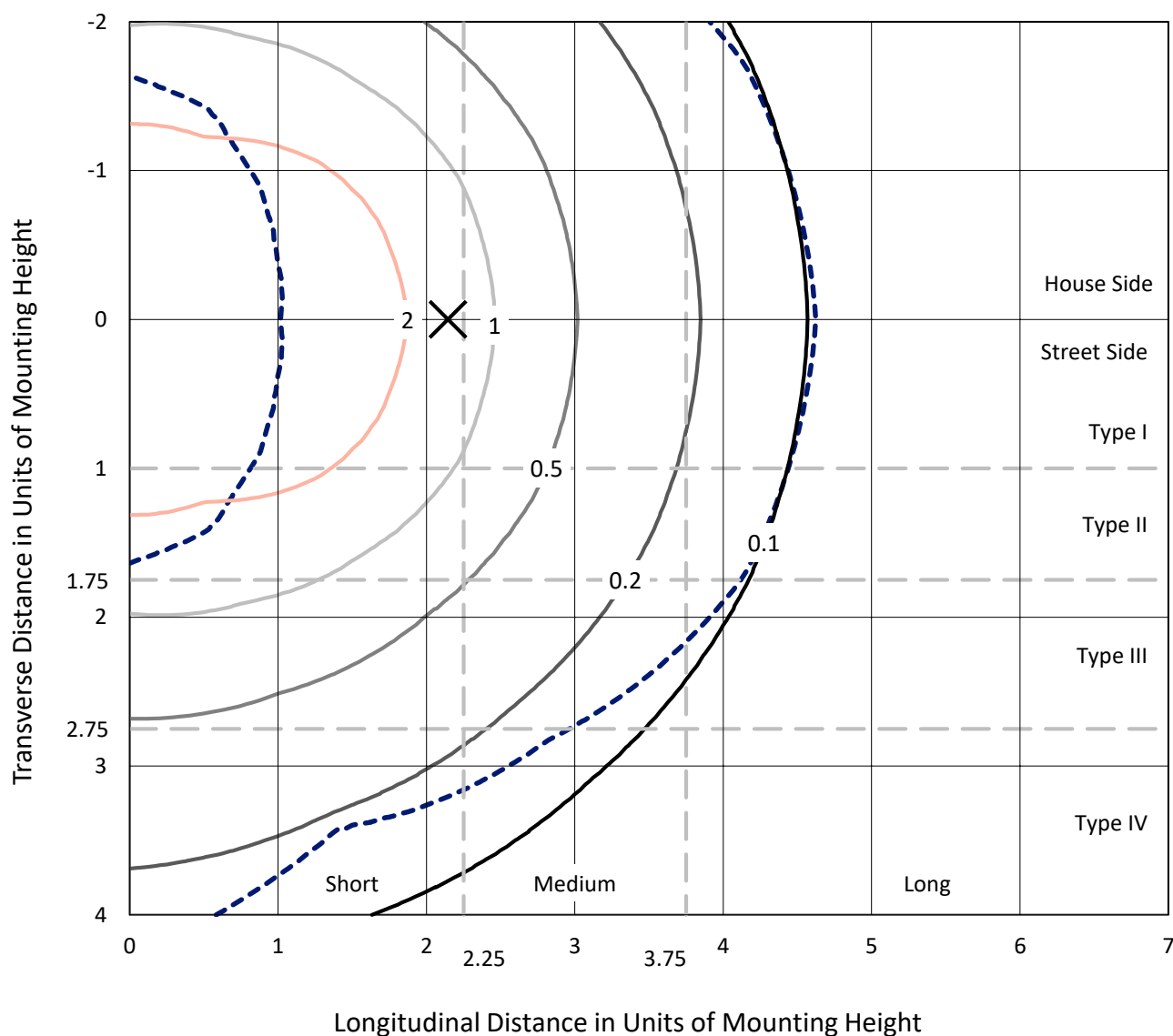


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

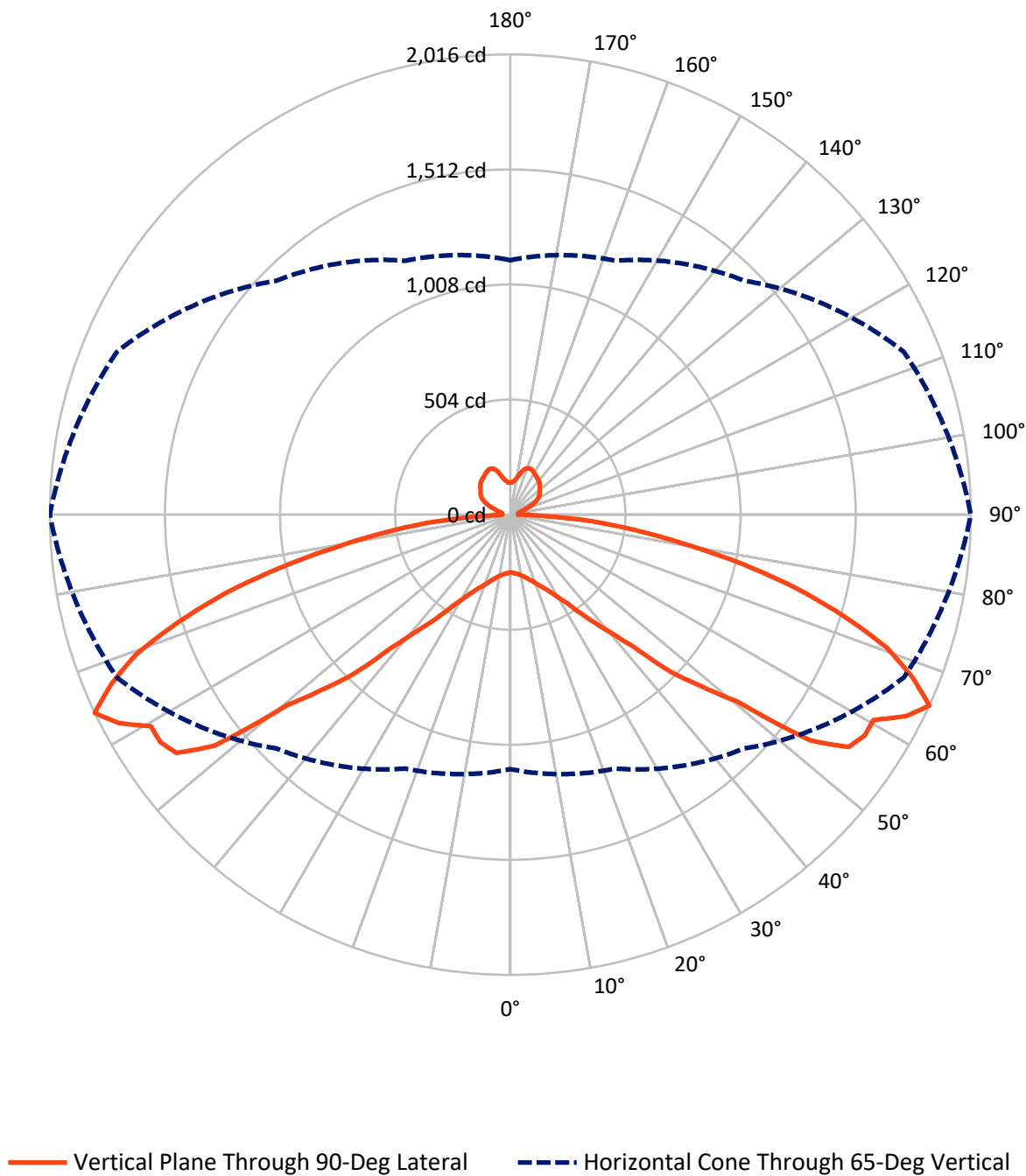


Based on 10 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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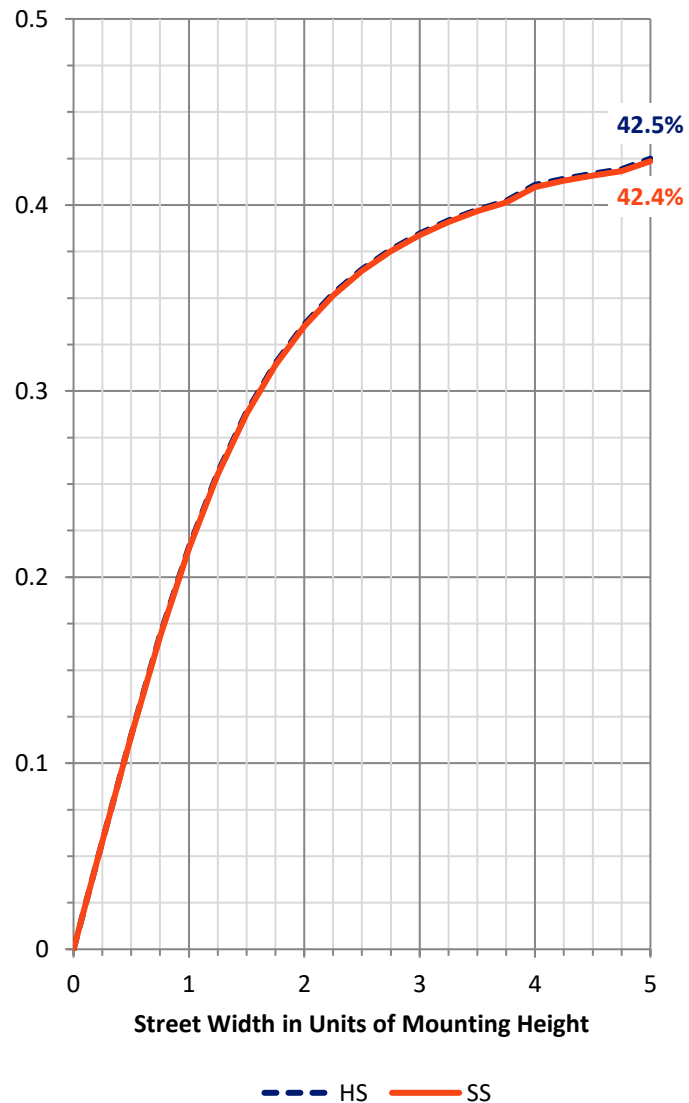
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2687.1	411.6	3098.7
	% Fixture	43.4	6.6	50.0
Street Side	Lumens	2687.1	411.6	3098.7
	% Fixture	43.4	6.6	50.0
Total	Lumens	5374.1	823.2	6197.3
	% Fixture	86.7	13.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.2	0.4
10°-20°	85.7	1.4
20°-30°	180.0	2.9
30°-40°	342.2	5.5
40°-50°	636.1	10.3
50°-60°	1127.3	18.2
60°-70°	1464.1	23.6
70°-80°	1166.1	18.8
80°-90°	347.5	5.6
90°-100°	38.2	0.6
100°-110°	59.5	1.0
110°-120°	118.9	1.9
120°-130°	148.3	2.4
130°-140°	152.8	2.5
140°-150°	136.2	2.2
150°-160°	103.9	1.7
160°-170°	51.8	0.8
170°-180°	13.6	0.2
0°-90°	5374.1	86.7
0°-180°	6197.3	100.0

Coefficient of Utilization



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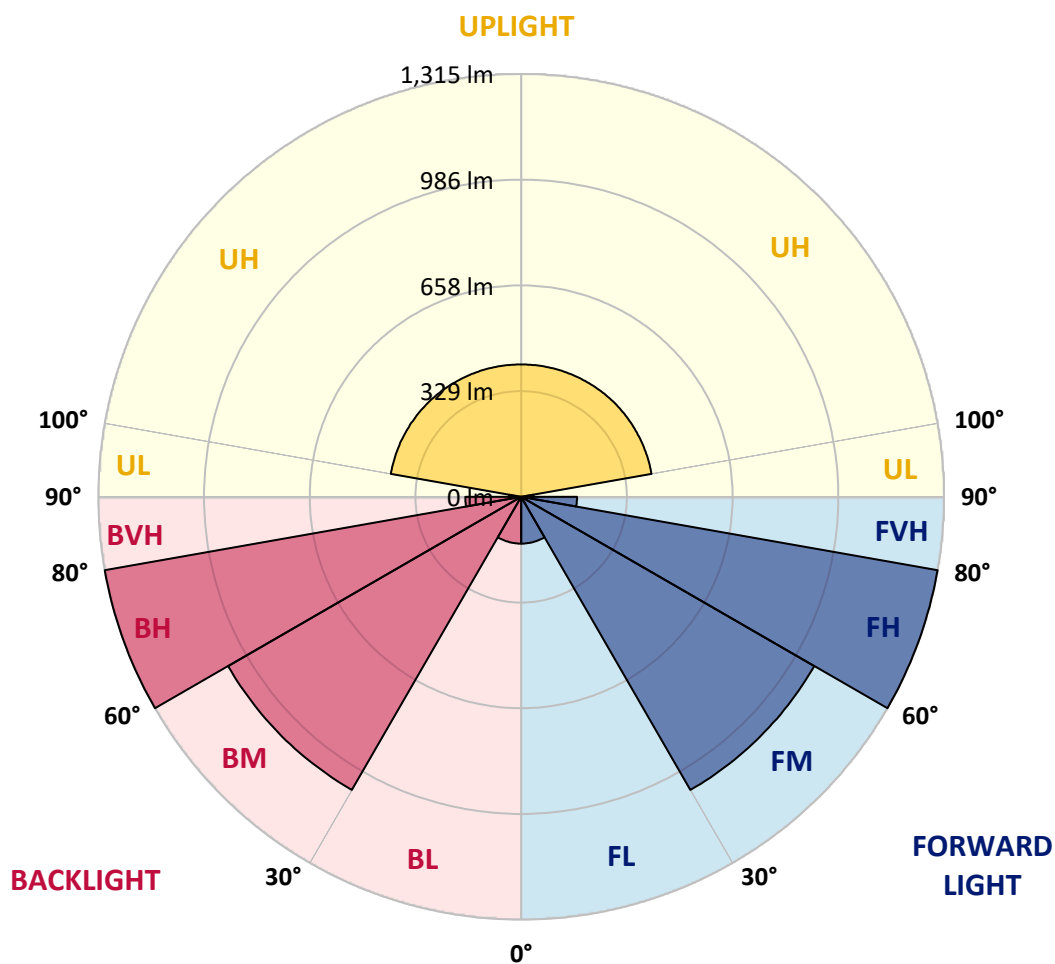
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	145.5	2.3			
FM	(30°-60°)	1052.8	17.0			
FH	(60°-80°)	1315.1	21.2			G1/1800
FVH	(80°-90°)	173.7	2.8			G2/225
BL	(0°-30°)	145.5	2.3	B1/500		
BM	(30°-60°)	1052.8	17.0	B2/2500		
BH	(60°-80°)	1315.1	21.2	B3/2500		G3/2500
BVH	(80°-90°)	173.7	2.8			G2/225
UL	(90°-100°)	38.2	0.6		U2/50	
UH	(100°-180°)	411.6	6.6		U3/500	

BUG Rating: B3-U4-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	252.3	252.3	252.3	252.3	252.3
2.5°	254.6	254.6	255.8	255.8	255.8
5°	259.4	259.4	260.6	260.6	259.4
7.5°	265.3	267.7	266.5	264.1	264.1
10°	274.8	276.0	273.6	272.4	271.2
12.5°	286.6	287.8	283.1	281.9	279.5
15°	303.2	302.0	297.3	292.5	292.5
17.5°	325.7	318.6	310.3	306.8	304.4
20°	351.8	342.3	331.6	323.3	322.2
22.5°	381.4	368.4	354.1	342.3	341.1
25°	409.8	399.1	381.4	366.0	361.2
27.5°	440.6	432.3	409.8	392.0	388.5
30°	476.1	469.0	443.0	426.4	425.2
32.5°	517.6	508.1	479.7	467.8	466.7
35°	567.3	549.6	524.7	516.4	530.6
37.5°	614.7	594.6	574.4	588.7	600.5
40°	656.2	643.1	633.7	663.3	679.9
42.5°	696.4	689.3	696.4	740.3	791.2
45°	739.1	741.4	767.5	887.1	978.3
47.5°	788.8	790.0	851.6	1035.2	1121.6
50°	843.3	842.1	951.1	1146.5	1285.1
52.5°	896.6	901.3	1050.6	1385.8	1642.8
55°	944.0	970.0	1185.6	1626.2	1796.8
57.5°	985.4	1035.2	1312.3	1697.3	1827.5
60°	1030.4	1113.3	1401.2	1711.5	1826.4
62.5°	1074.3	1174.9	1420.1	1774.2	1943.6
65°	1114.5	1203.4	1448.5	1864.3	2015.9
67.5°	1147.7	1217.6	1448.5	1786.1	1896.2
70°	1174.9	1199.8	1364.4	1645.1	1749.4
72.5°	1169.0	1126.4	1225.9	1472.2	1532.6
75°	1113.3	997.3	1080.2	1238.9	1299.3
77.5°	973.6	835.0	880.0	998.5	1037.5
80°	771.1	651.4	677.5	753.3	765.1
82.5°	543.6	467.8	477.3	535.4	543.6
85°	319.8	287.8	278.3	330.5	347.0
87.5°	94.8	82.9	81.7	99.5	110.2
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)