

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: P198027

Luminaire Tested: **TT-C4-LED-E1-RW-CG-LWR-LW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198027
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34697)
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-CG-LWR-LW-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
RECTANGULAR DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS
SENSOR
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5011.9 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 58
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

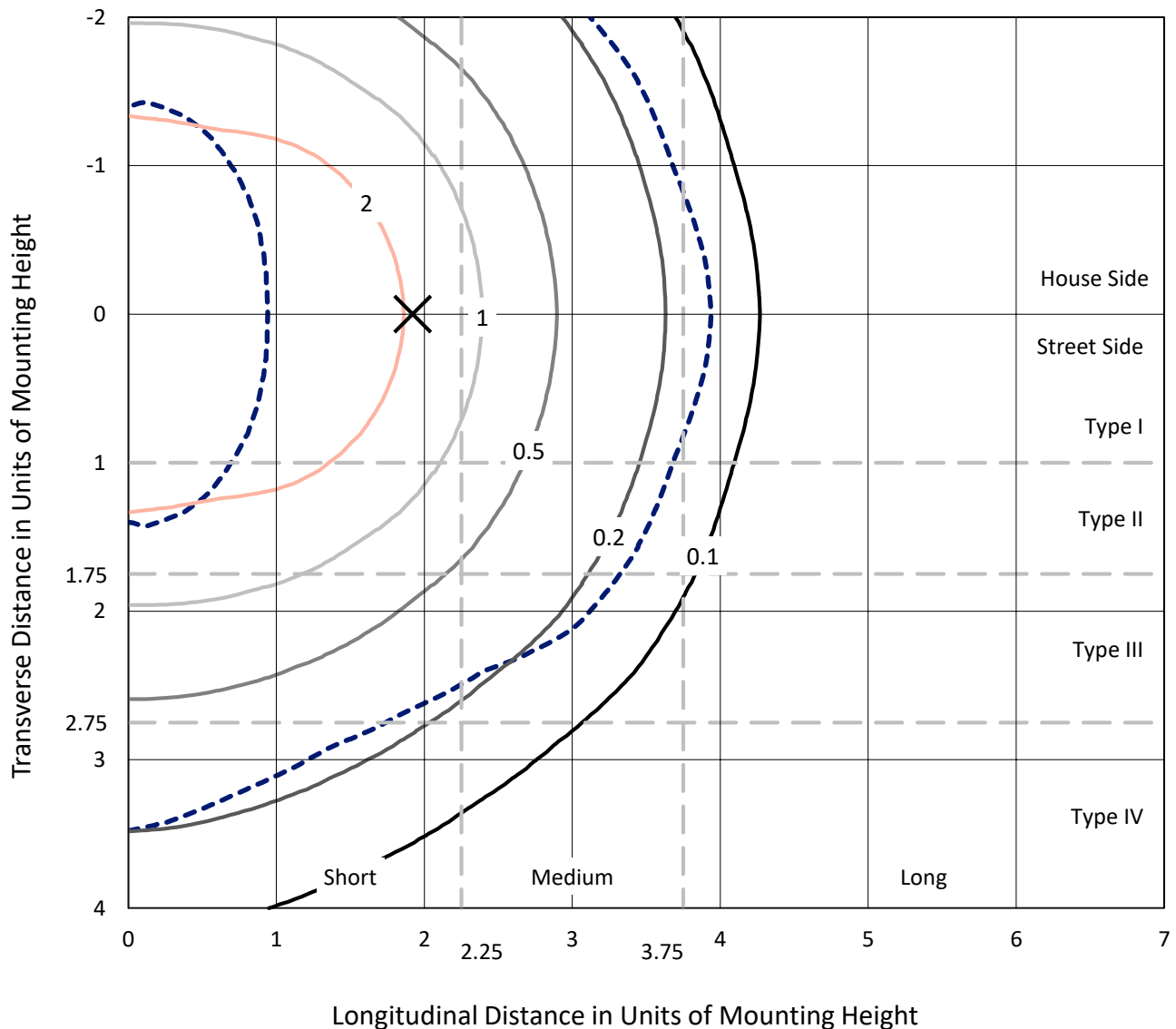


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

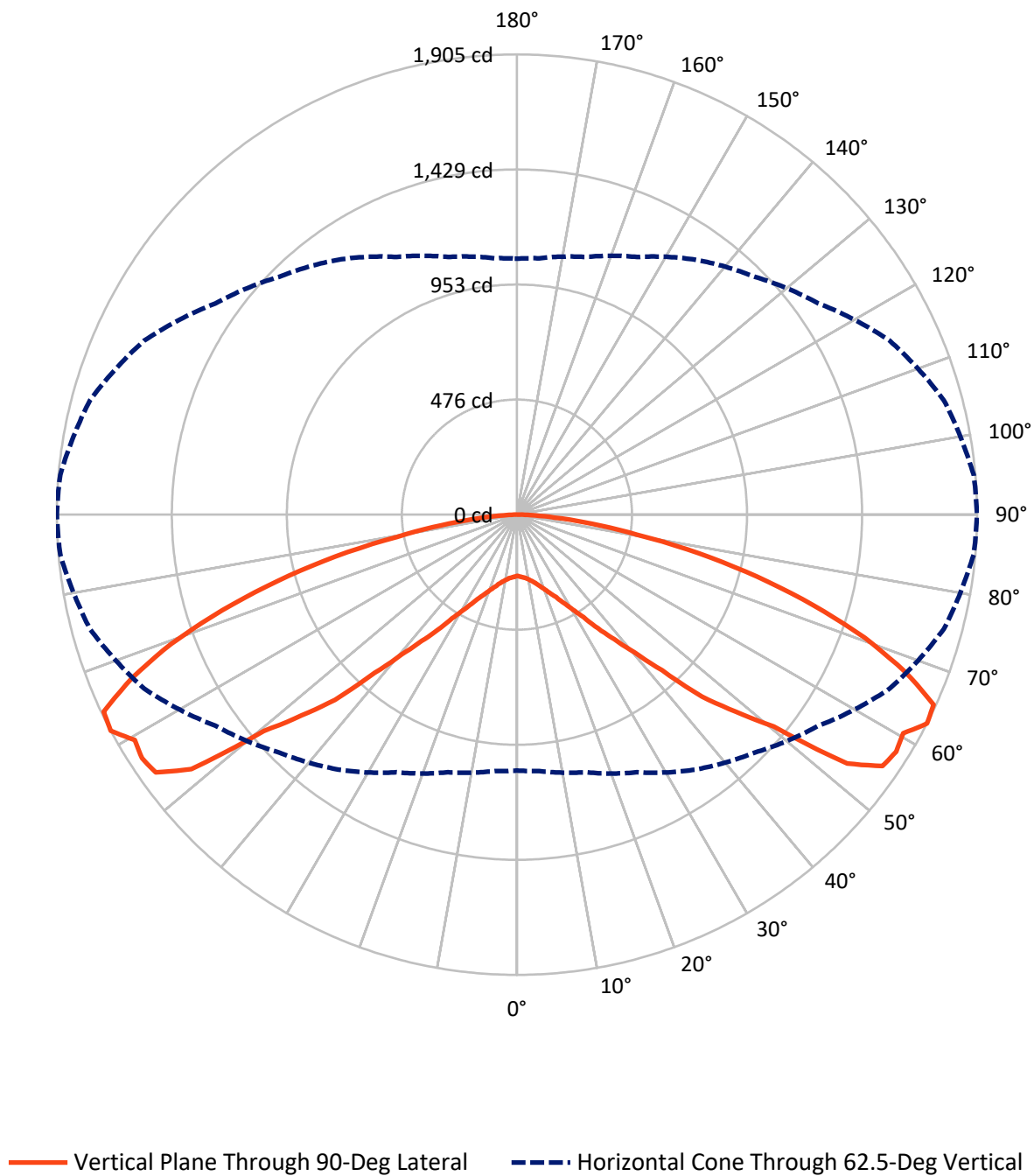


Based on 10 foot mounting height. Maximum calculated value = 3.8 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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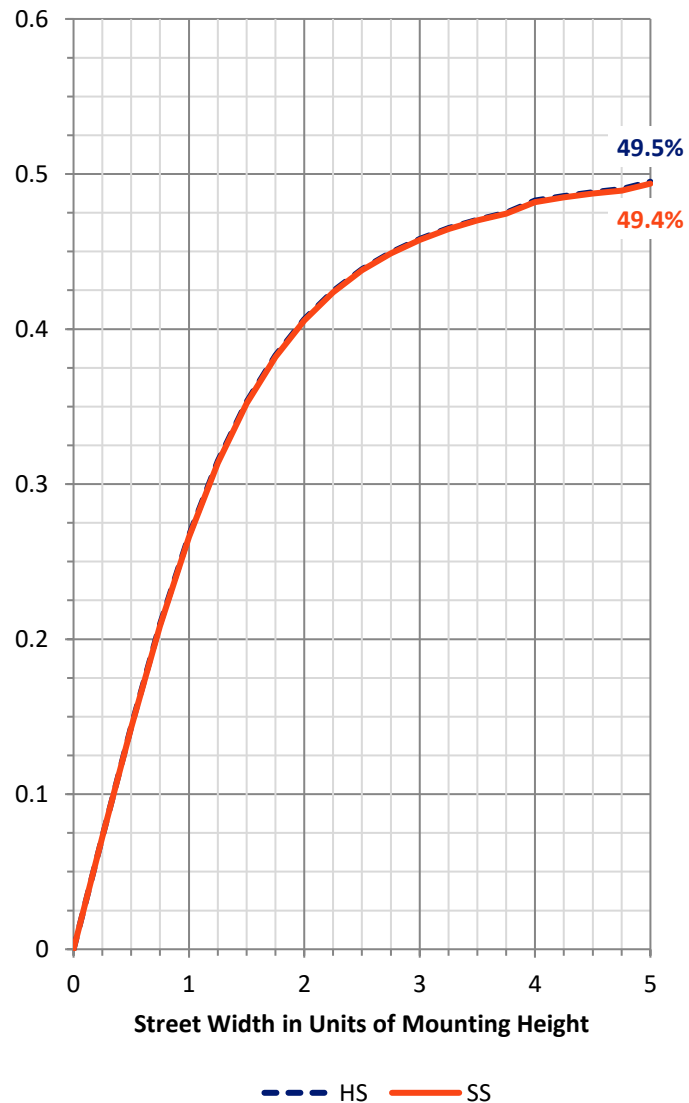
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2506.0	0.0	2506.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2506.0	0.0	2506.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5011.9	0.0	5011.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.3	0.5
10°-20°	86.2	1.7
20°-30°	184.3	3.7
30°-40°	358.4	7.2
40°-50°	675.9	13.5
50°-60°	1154.9	23.0
60°-70°	1390.8	27.7
70°-80°	935.9	18.7
80°-90°	200.2	4.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5011.9	100.0
0°-180°	5011.9	100.0

Coefficient of Utilization



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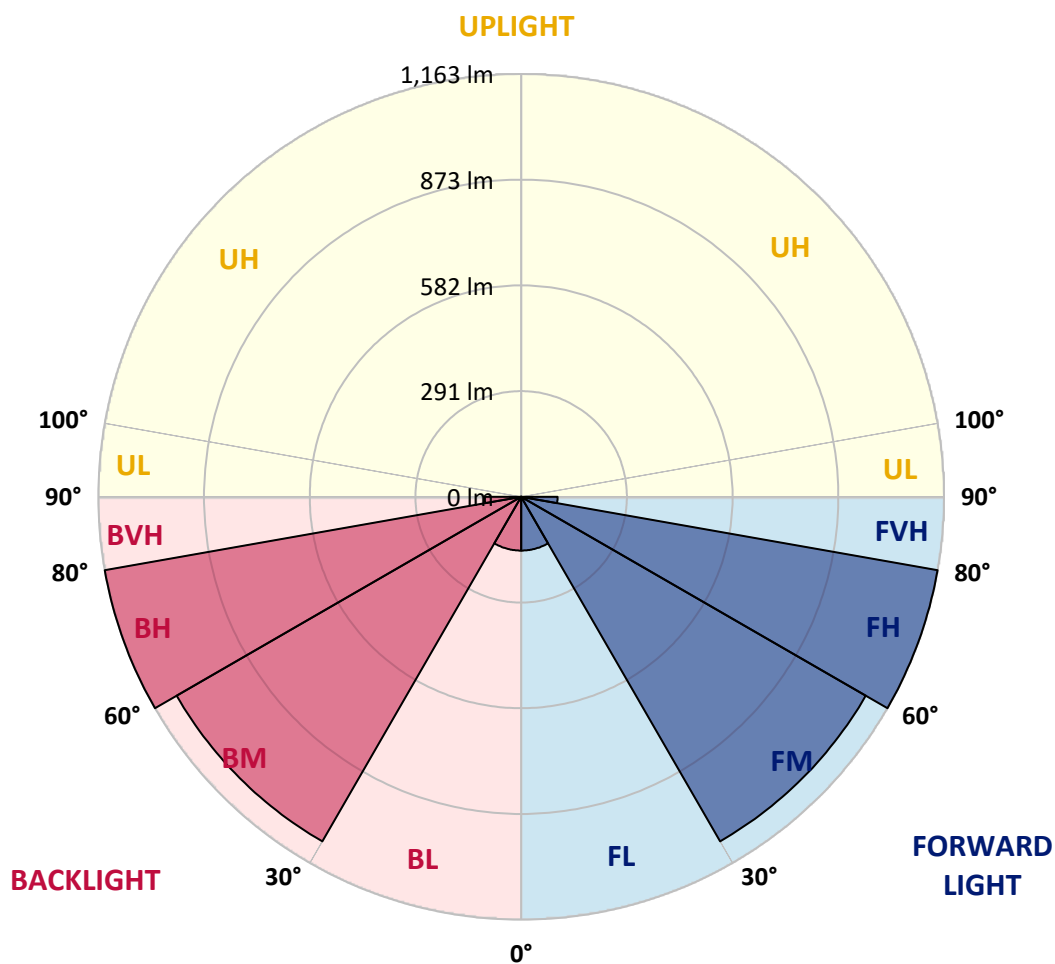
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	147.9	3.0			
FM	(30°-60°)	1094.6	21.8			
FH	(60°-80°)	1163.4	23.2			G1/1800
FVH	(80°-90°)	100.1	2.0			G2/225
BL	(0°-30°)	147.9	3.0	B1/500		
BM	(30°-60°)	1094.6	21.8	B2/2500		
BH	(60°-80°)	1163.4	23.2	B3/2500		G3/2500
BVH	(80°-90°)	100.1	2.0			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	253.4	253.4	253.4	253.4	253.4	253.4	253.4	253.4	253.4	253.4	253.4
2.5°	255.8	255.8	255.8	255.8	255.8	255.8	256.9	256.9	256.9	256.9	256.9
5°	259.3	259.3	260.5	260.5	261.6	261.6	261.6	261.6	260.5	260.5	260.5
7.5°	265.1	265.1	266.3	267.5	267.5	266.3	266.3	265.1	265.1	265.1	265.1
10°	274.5	274.5	275.7	275.7	274.5	274.5	274.5	273.4	273.4	273.4	273.4
12.5°	285.1	286.3	287.4	286.3	285.1	283.9	283.9	282.7	282.7	282.7	282.7
15°	300.3	302.7	301.5	301.5	300.3	298.0	296.8	295.6	295.6	295.6	295.6
17.5°	323.8	323.8	320.3	317.9	315.6	314.4	313.2	312.1	312.1	312.1	312.1
20°	348.4	347.3	343.7	340.2	336.7	335.5	332.0	330.8	332.0	330.8	330.8
22.5°	377.8	376.6	371.9	368.4	363.7	359.0	357.8	354.3	353.1	352.0	353.1
25°	407.1	408.3	404.8	401.2	394.2	389.5	384.8	382.5	380.1	378.9	378.9
27.5°	441.1	443.5	441.1	434.1	427.0	423.5	416.5	414.1	413.0	414.1	414.1
30°	477.5	478.7	475.1	471.6	464.6	456.4	451.7	452.9	452.9	456.4	455.2
32.5°	522.1	520.9	516.2	513.9	506.8	499.8	497.4	498.6	503.3	505.7	505.7
35°	571.4	567.8	563.1	558.4	552.6	547.9	549.1	558.4	572.5	576.0	578.4
37.5°	620.6	614.8	614.8	607.7	603.0	606.5	613.6	631.2	641.7	658.2	654.6
40°	666.4	667.6	665.2	659.3	658.2	669.9	685.2	707.4	734.4	750.9	749.7
42.5°	708.6	719.2	712.1	713.3	719.2	737.9	762.6	806.0	860.0	881.1	881.1
45°	755.5	768.4	762.6	766.1	782.5	811.9	864.7	950.3	1024.2	1074.7	1074.7
47.5°	803.6	815.4	813.0	820.1	849.4	901.0	982.0	1088.7	1162.6	1211.9	1219.0
50°	864.7	860.0	861.1	878.7	929.2	1004.3	1107.5	1213.1	1335.1	1364.4	1378.5
52.5°	917.4	903.4	911.6	940.9	1013.6	1101.6	1229.5	1416.1	1585.0	1702.3	1711.7
55°	960.9	950.3	966.7	1007.8	1101.6	1217.8	1384.4	1613.2	1752.8	1824.3	1837.2
57.5°	998.4	993.7	1020.7	1073.5	1193.1	1335.1	1504.0	1689.4	1786.8	1841.9	1851.3
60°	1032.4	1035.9	1065.3	1135.7	1264.7	1394.9	1531.0	1687.1	1784.4	1827.9	1837.2
62.5°	1059.4	1065.3	1104.0	1176.7	1288.2	1392.6	1524.0	1703.5	1830.2	1898.2	1905.3
65°	1077.0	1082.9	1126.3	1176.7	1281.1	1382.0	1567.4	1719.9	1813.8	1883.0	1895.9
67.5°	1079.3	1087.6	1113.4	1155.6	1243.6	1332.8	1492.3	1602.6	1677.7	1719.9	1731.7
70°	1065.3	1062.9	1072.3	1089.9	1142.7	1203.7	1338.6	1420.8	1474.7	1518.1	1528.7
72.5°	1011.3	1007.8	985.5	965.5	985.5	1033.6	1149.7	1204.9	1241.3	1276.4	1283.5
75°	908.1	891.6	836.5	808.3	802.5	844.7	933.9	969.1	983.1	1023.0	1027.7
77.5°	726.2	719.2	672.2	623.0	618.3	644.1	712.1	727.4	715.7	759.1	772.0
80°	530.3	520.9	476.3	440.0	430.6	448.2	488.1	491.6	483.4	504.5	504.5
82.5°	339.1	329.7	310.9	283.9	264.0	274.5	305.0	305.0	305.0	310.9	314.4
85°	174.8	171.3	157.2	144.3	137.3	139.6	150.2	151.3	157.2	160.7	156.0
87.5°	49.3	51.6	49.3	43.4	42.2	41.1	45.8	46.9	50.4	52.8	55.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)