

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: P198029

Luminaire Tested: **TT-C5-LED-E1-RW-CG-LWR-LW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198029
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-C5-LED-E1-RW-CG-LWR-LW-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
RECTANGULAR DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS
SENSOR
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4943.9 lumens
Efficiency: N/A
Efficacy: 64.2 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): 77
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

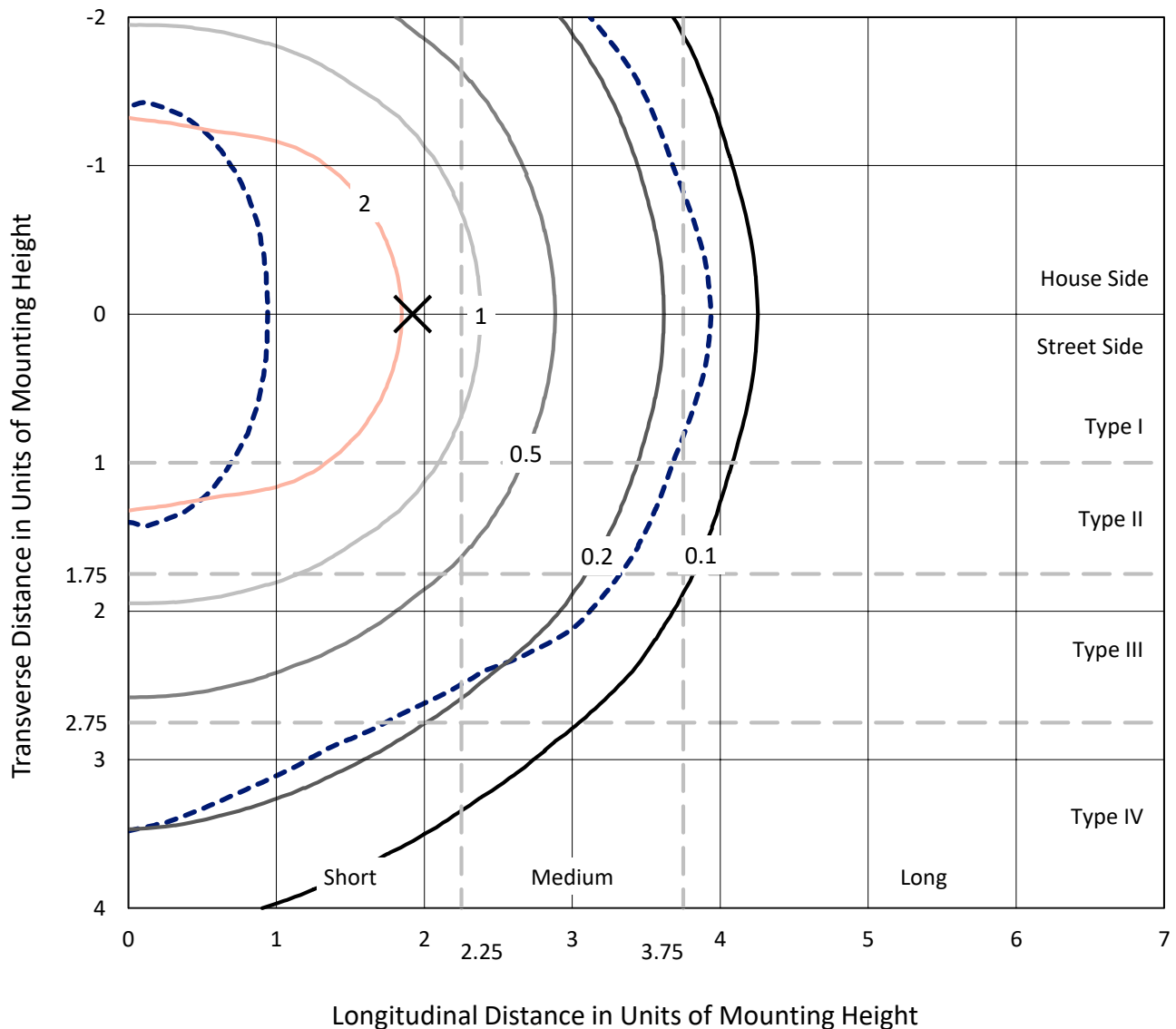


REPORT NUMBER: P198029

CATALOG NUMBER: TT-C5-LED-E1-RW-CG-LWR-LW-8030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

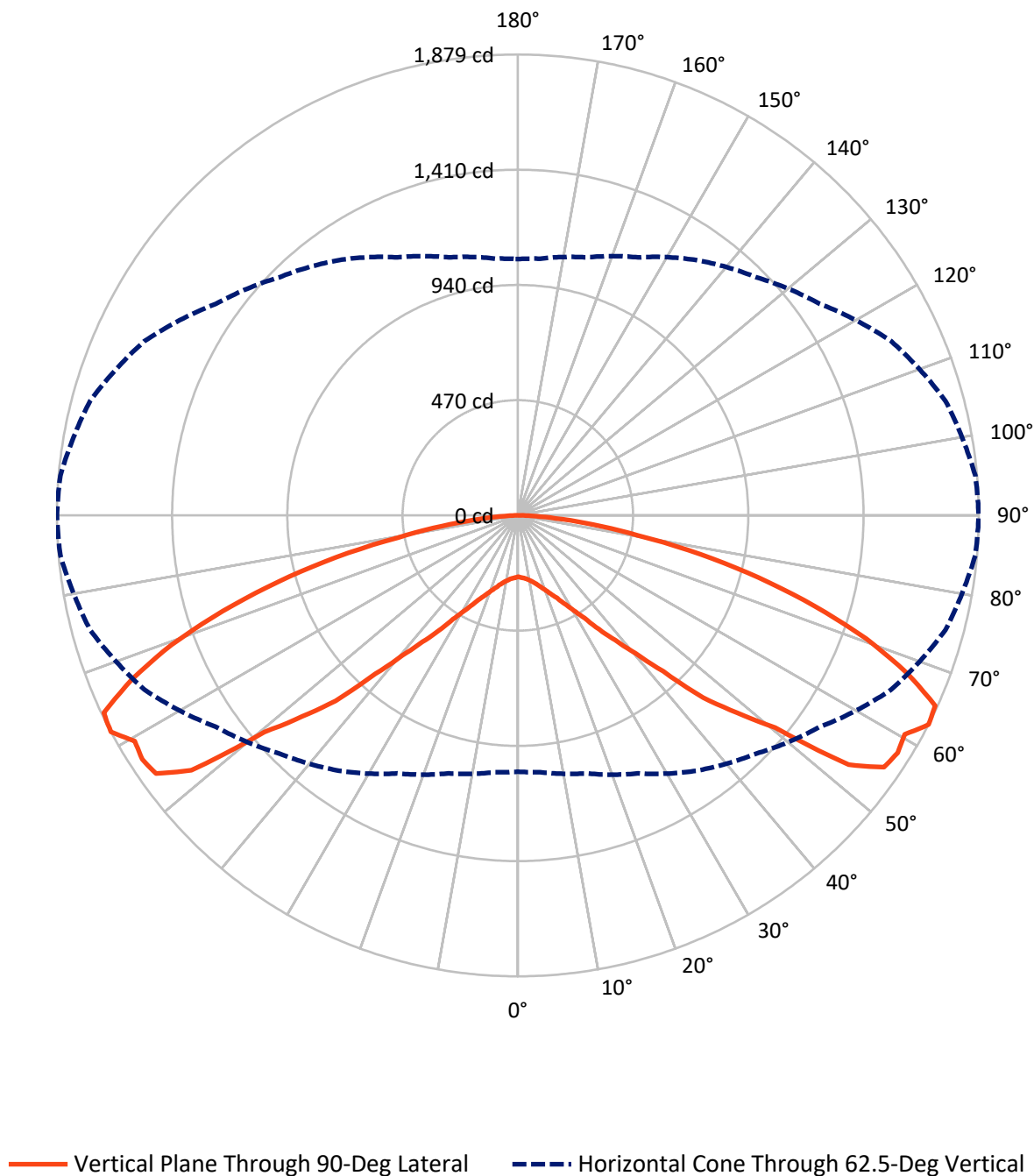


Based on 10 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P198029

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Luminous Intensity Polar Plot



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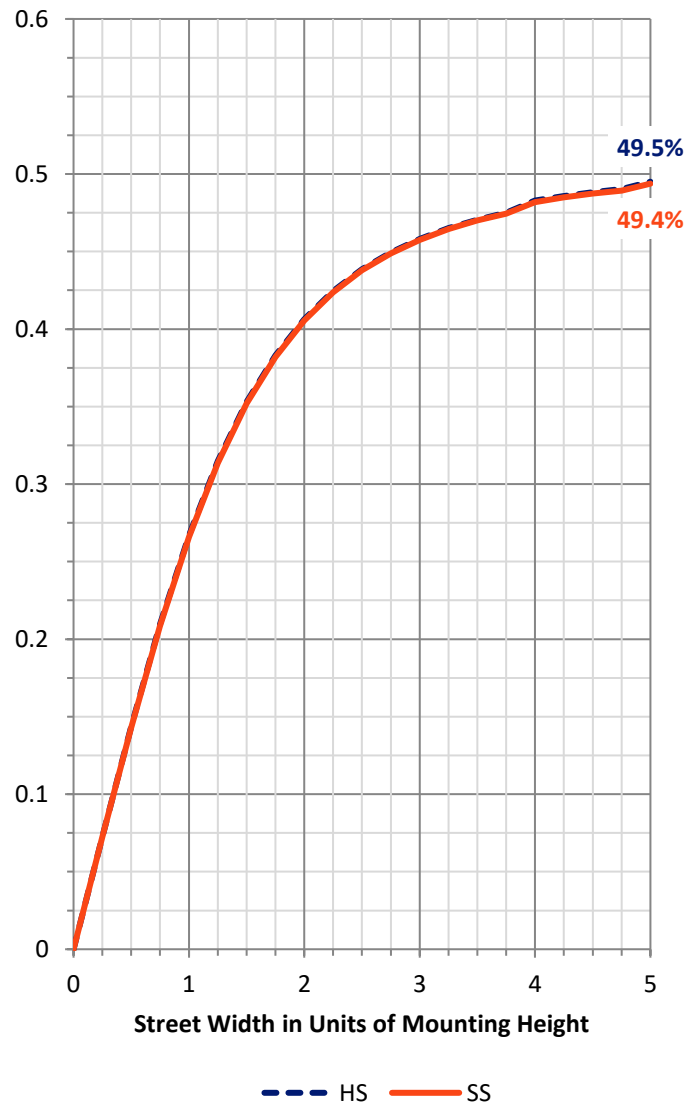
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2472.0	0.0	2472.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2472.0	0.0	2472.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4943.9	0.0	4943.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.9	0.5
10°-20°	85.1	1.7
20°-30°	181.8	3.7
30°-40°	353.6	7.2
40°-50°	666.7	13.5
50°-60°	1139.2	23.0
60°-70°	1371.9	27.7
70°-80°	923.2	18.7
80°-90°	197.5	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°	4943.9	100.0
0°-180°	4943.9	100.0

Coefficient of Utilization



REPORT NUMBER: P198029

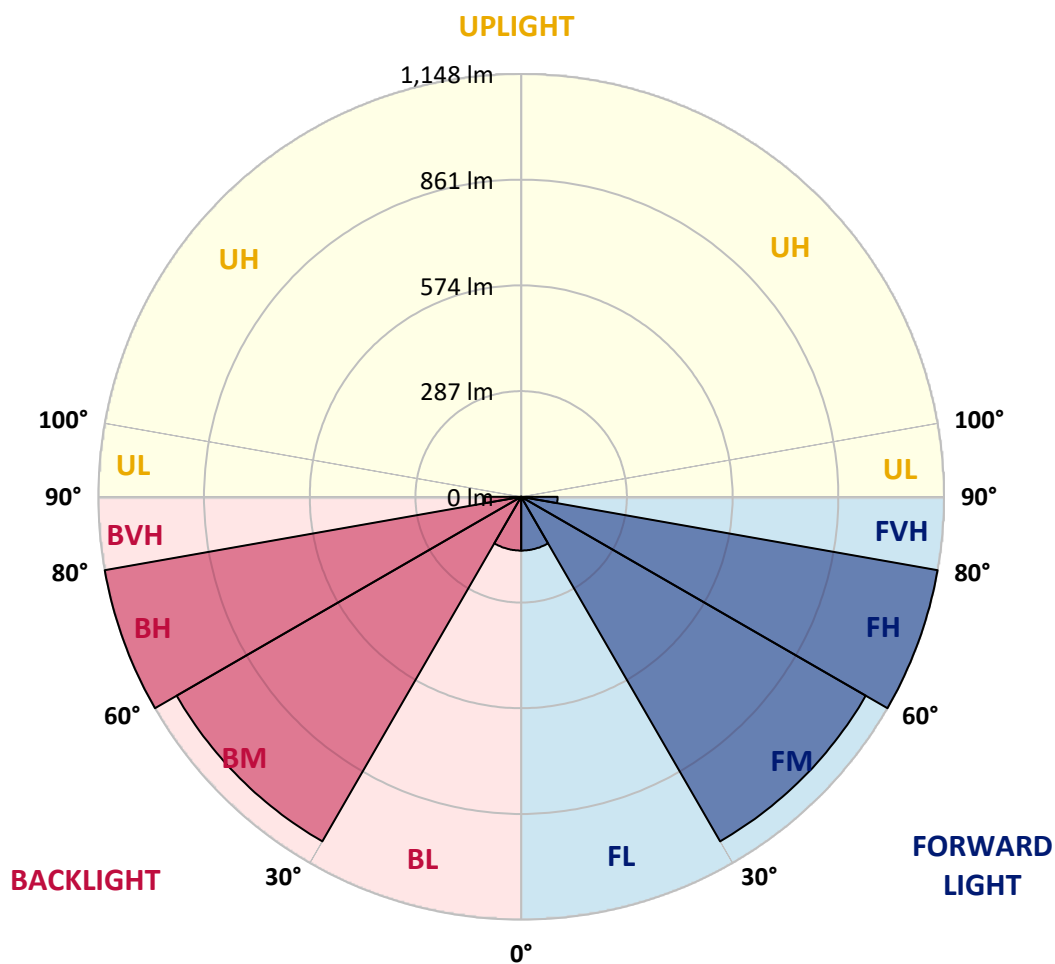
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	145.9	3.0			
FM	(30°-60°)	1079.7	21.8			
FH	(60°-80°)	1147.6	23.2			G1/1800
FVH	(80°-90°)	98.7	2.0			G1/100
BL	(0°-30°)	145.9	3.0	B1/500		
BM	(30°-60°)	1079.7	21.8	B2/2500		
BH	(60°-80°)	1147.6	23.2	B3/2500		G3/2500
BVH	(80°-90°)	98.7	2.0			G1/100
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°	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0
2.5°	252.3	252.3	252.3	252.3	252.3	252.3	253.4	253.4	253.4	253.4	253.4
5°	255.8	255.8	256.9	256.9	258.1	258.1	258.1	258.1	256.9	256.9	256.9
7.5°	261.5	261.5	262.7	263.9	263.9	262.7	262.7	261.5	261.5	261.5	261.5
10°	270.8	270.8	272.0	272.0	270.8	270.8	270.8	269.6	269.6	269.6	269.6
12.5°	281.2	282.4	283.5	282.4	281.2	280.1	280.1	278.9	278.9	278.9	278.9
15°	296.3	298.6	297.4	297.4	296.3	294.0	292.8	291.6	291.6	291.6	291.6
17.5°	319.4	319.4	315.9	313.6	311.3	310.2	309.0	307.8	307.8	307.8	307.8
20°	343.7	342.6	339.1	335.6	332.1	331.0	327.5	326.4	327.5	326.4	326.4
22.5°	372.6	371.5	366.9	363.4	358.8	354.1	353.0	349.5	348.3	347.2	348.3
25°	401.6	402.7	399.3	395.8	388.8	384.2	379.6	377.3	375.0	373.8	373.8
27.5°	435.1	437.5	435.1	428.2	421.3	417.8	410.8	408.5	407.4	408.5	408.5
30°	471.0	472.2	468.7	465.2	458.3	450.2	445.6	446.7	446.7	450.2	449.0
32.5°	515.0	513.8	509.2	506.9	499.9	493.0	490.7	491.8	496.5	498.8	498.8
35°	563.6	560.1	555.5	550.9	545.1	540.5	541.6	550.9	564.8	568.2	570.5
37.5°	612.2	606.4	606.4	599.5	594.8	598.3	605.3	622.6	633.0	649.2	645.8
40°	657.3	658.5	656.2	650.4	649.2	660.8	675.9	697.8	724.5	740.7	739.5
42.5°	699.0	709.4	702.5	703.6	709.4	727.9	752.2	795.1	848.3	869.1	869.1
45°	745.3	758.0	752.2	755.7	771.9	800.8	852.9	937.4	1010.3	1060.1	1060.1
47.5°	792.7	804.3	802.0	808.9	837.9	888.8	968.6	1074.0	1146.9	1195.5	1202.4
50°	852.9	848.3	849.4	866.8	916.6	990.6	1092.5	1196.6	1317.0	1345.9	1359.8
52.5°	905.0	891.1	899.2	928.1	999.9	1086.7	1212.8	1396.8	1563.5	1679.2	1688.5
55°	947.8	937.4	953.6	994.1	1086.7	1201.3	1365.6	1591.3	1729.0	1799.6	1812.3
57.5°	984.8	980.2	1006.8	1058.9	1177.0	1317.0	1483.6	1666.5	1762.5	1816.9	1826.2
60°	1018.4	1021.9	1050.8	1120.3	1247.6	1376.0	1510.3	1664.2	1760.2	1803.0	1812.3
62.5°	1045.0	1050.8	1089.0	1160.8	1270.7	1373.7	1503.3	1680.4	1805.4	1872.5	1879.4
65°	1062.4	1068.2	1111.0	1160.8	1263.8	1363.3	1546.1	1696.6	1789.2	1857.4	1870.2
67.5°	1064.7	1072.8	1098.3	1139.9	1226.7	1314.7	1472.1	1580.8	1654.9	1696.6	1708.2
70°	1050.8	1048.5	1057.8	1075.1	1127.2	1187.4	1320.5	1401.5	1454.7	1497.5	1507.9
72.5°	997.6	994.1	972.1	952.4	972.1	1019.6	1134.1	1188.5	1224.4	1259.1	1266.1
75°	895.7	879.5	825.1	797.4	791.6	833.2	921.2	955.9	969.8	1009.2	1013.8
77.5°	716.4	709.4	663.1	614.5	609.9	635.3	702.5	717.5	705.9	748.8	761.5
80°	523.1	513.8	469.9	434.0	424.7	442.1	481.4	484.9	476.8	497.6	497.6
82.5°	334.5	325.2	306.7	280.1	260.4	270.8	300.9	300.9	300.9	306.7	310.2
85°	172.4	169.0	155.1	142.3	135.4	137.7	148.1	149.3	155.1	158.5	153.9
87.5°	48.6	50.9	48.6	42.8	41.7	40.5	45.1	46.3	49.8	52.1	54.4
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)