

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: P197953

Luminaire Tested: **TT-C4-LED-E1-RW-LWR-LW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197953
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34693)
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-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
RECTANGULAR DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4049.7 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

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

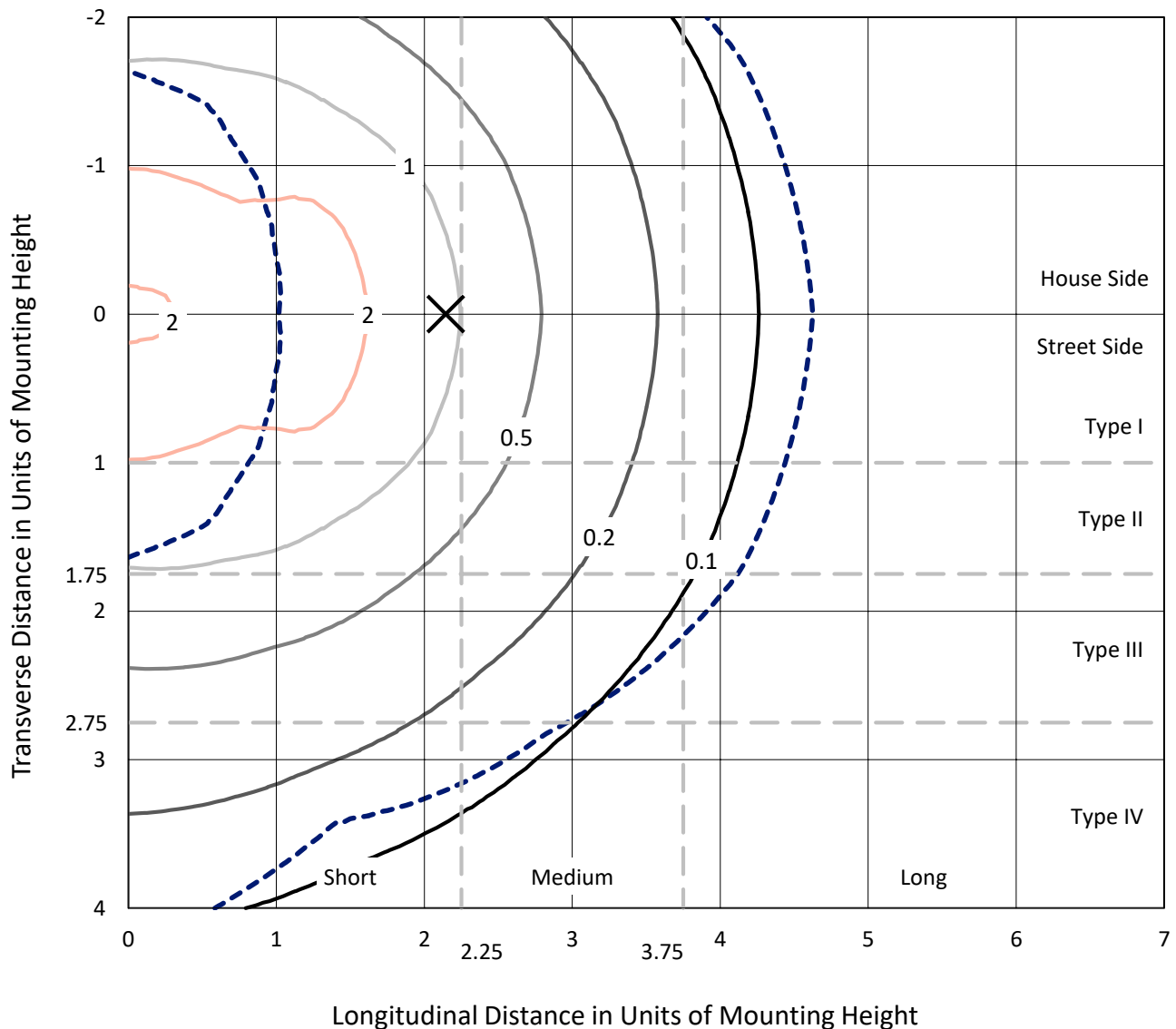


REPORT NUMBER: P197953

CATALOG NUMBER: TT-C4-LED-E1-RW-LWR-LW-8030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

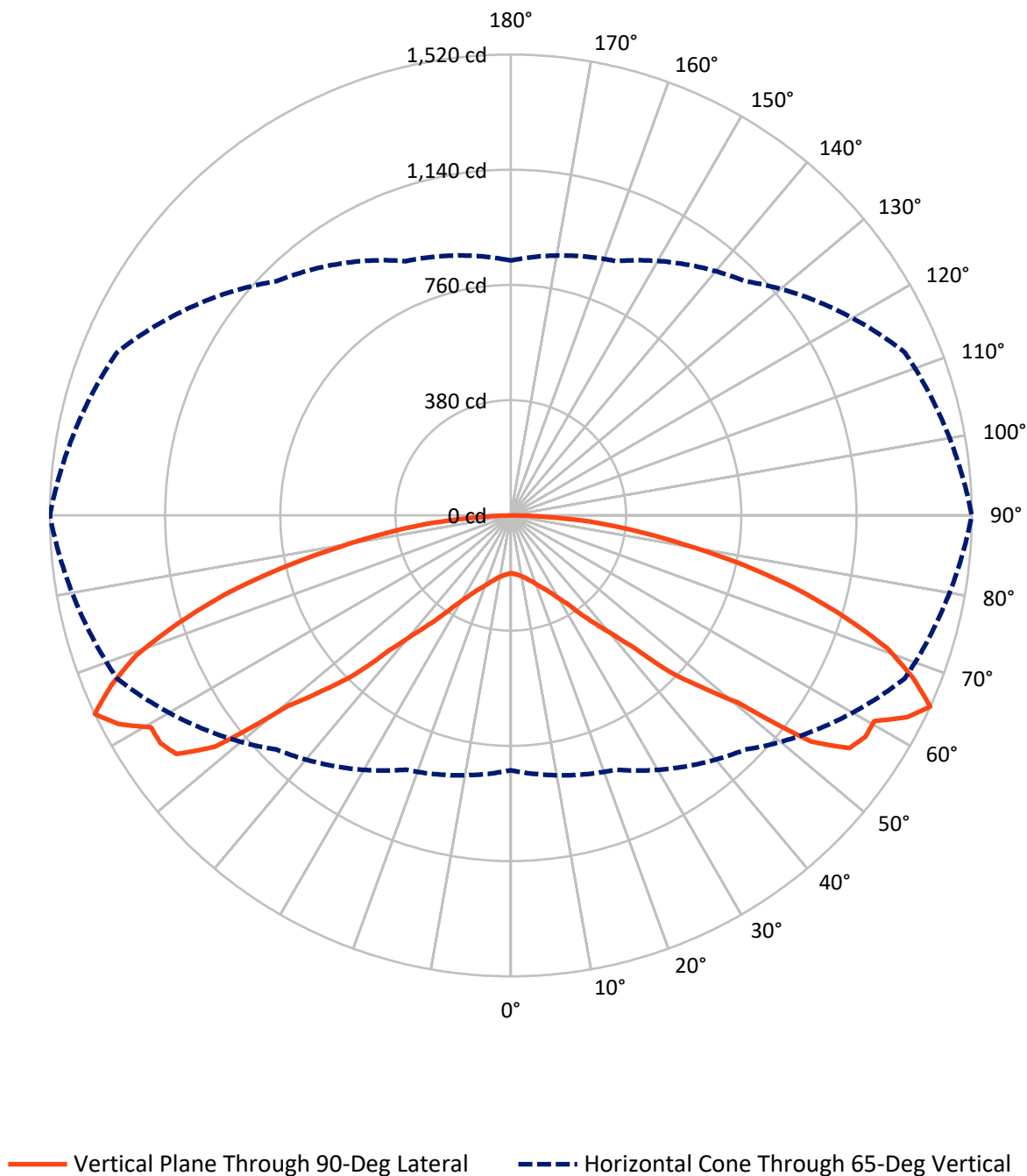


Based on 10 foot mounting height. Maximum calculated value = 2.7 fc
Type IV - Short - Semi-Cutoff

REPORT NUMBER: P197953

CATALOG NUMBER: TT-C4-LED-E1-RW-LWR-LW-8030

Luminous Intensity Polar Plot



REPORT NUMBER: P197953

CATALOG NUMBER: TT-C4-LED-E1-RW-LWR-LW-8030

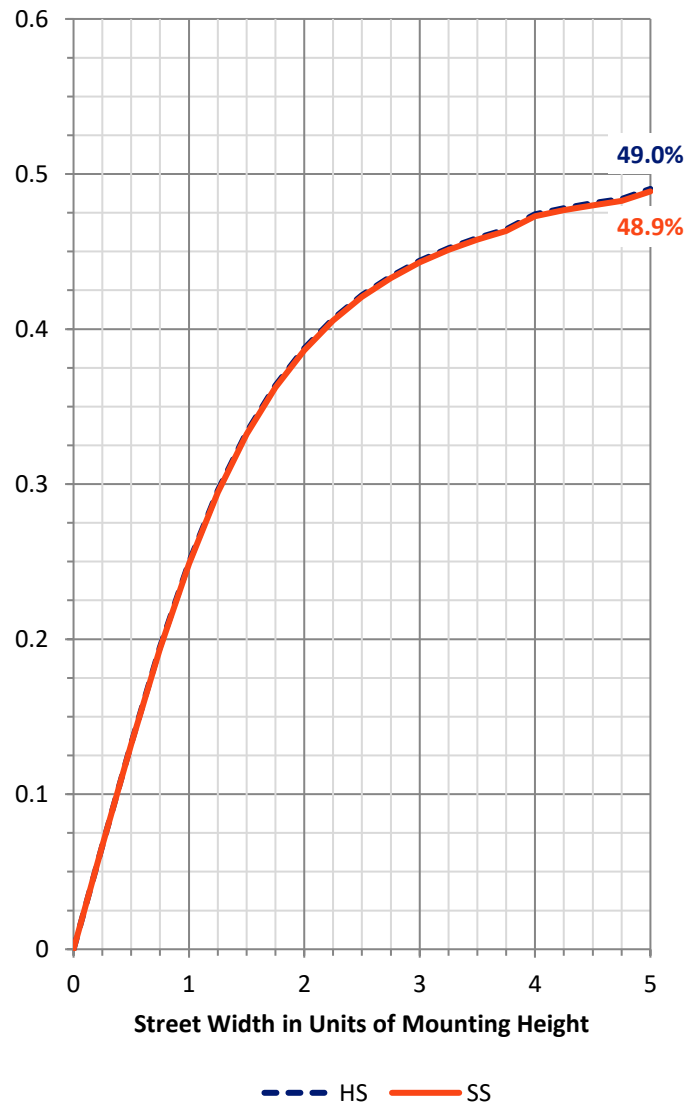
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2024.9	0.0	2024.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2024.9	0.0	2024.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	4049.7	0.0	4049.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.0	0.5
10°-20°	64.7	1.6
20°-30°	135.7	3.4
30°-40°	258.1	6.4
40°-50°	479.7	11.8
50°-60°	850.2	21.0
60°-70°	1104.2	27.3
70°-80°	879.4	21.7
80°-90°	258.7	6.4
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°	4049.7	100.0
0°-180°	4049.7	100.0

Coefficient of Utilization



REPORT NUMBER: P197953

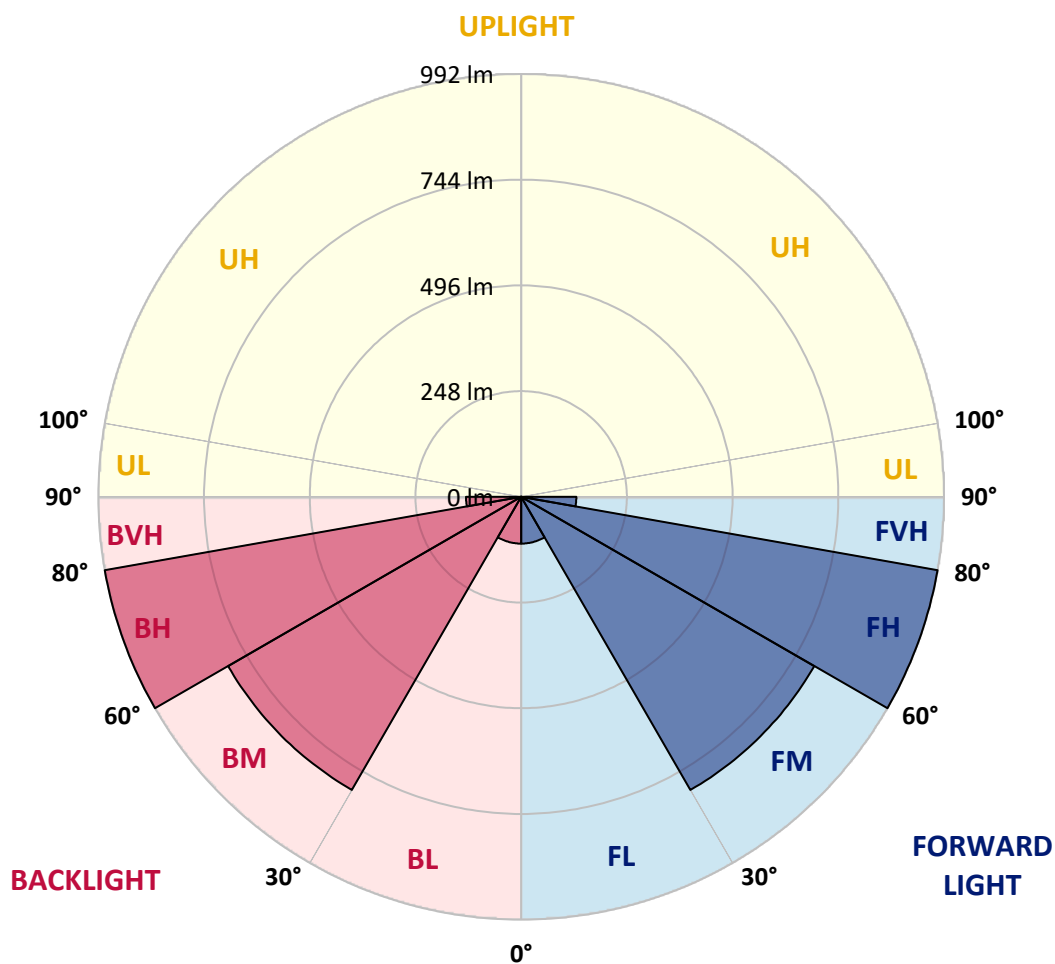
CATALOG NUMBER: TT-C4-LED-E1-RW-LWR-LW-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	109.7	2.7			
FM	(30°-60°)	794.0	19.6			
FH	(60°-80°)	991.8	24.5			G1/1800
FVH	(80°-90°)	129.4	3.2			G2/225
BL	(0°-30°)	109.7	2.7	B0/110		
BM	(30°-60°)	794.0	19.6	B1/1000		
BH	(60°-80°)	991.8	24.5	B2/1000		G2/1000
BVH	(80°-90°)	129.4	3.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short



REPORT NUMBER: P197953

CATALOG NUMBER: TT-C4-LED-E1-RW-LWR-LW-8030

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	190.3	190.3	190.3	190.3	190.3
2.5°	192.1	192.1	192.9	192.9	192.9
5°	195.6	195.6	196.5	196.5	195.6
7.5°	200.1	201.9	201.0	199.2	199.2
10°	207.2	208.1	206.3	205.4	204.6
12.5°	216.2	217.1	213.5	212.6	210.8
15°	228.7	227.8	224.2	220.6	220.6
17.5°	245.6	240.3	234.0	231.4	229.6
20°	265.3	258.2	250.1	243.9	243.0
22.5°	287.6	277.8	267.1	258.2	257.3
25°	309.1	301.0	287.6	276.0	272.4
27.5°	332.3	326.0	309.1	295.7	293.0
30°	359.1	353.7	334.1	321.6	320.7
32.5°	390.4	383.2	361.8	352.8	351.9
35°	427.9	414.5	395.7	389.5	400.2
37.5°	463.6	448.4	433.2	443.9	452.9
40°	494.9	485.0	477.9	500.2	512.7
42.5°	525.2	519.9	525.2	558.3	596.7
45°	557.4	559.2	578.8	669.0	737.8
47.5°	594.9	595.8	642.3	780.7	845.9
50°	636.0	635.1	717.3	864.7	969.2
52.5°	676.2	679.8	792.3	1045.1	1238.9
55°	711.9	731.6	894.2	1226.4	1355.1
57.5°	743.2	780.7	989.7	1280.0	1378.3
60°	777.1	839.7	1056.7	1290.8	1377.4
62.5°	810.2	886.1	1071.0	1338.1	1465.8
65°	840.6	907.5	1092.5	1406.0	1520.3
67.5°	865.6	918.3	1092.5	1347.0	1430.1
70°	886.1	904.9	1029.0	1240.7	1319.3
72.5°	881.6	849.5	924.5	1110.3	1155.9
75°	839.7	752.1	814.7	934.3	979.9
77.5°	734.3	629.7	663.7	753.0	782.5
80°	581.5	491.3	510.9	568.1	577.0
82.5°	410.0	352.8	360.0	403.8	410.0
85°	241.2	217.1	209.9	249.2	261.7
87.5°	71.5	62.5	61.6	75.0	83.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)