

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: P400609

Luminaire Tested: **TT-D2-827-U-WQ**

Issue Date: 6/3/2020

Test Information

Test Method: LM-79-08
Report Number: P400609
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1908-473-14)
Test Lab: INNOVATION CENTER
Issue Date: 6/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-D2-827-U-WQ
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
2700K, 80 CRI LEDS AND WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4406 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 39.2
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: 28.75 FT

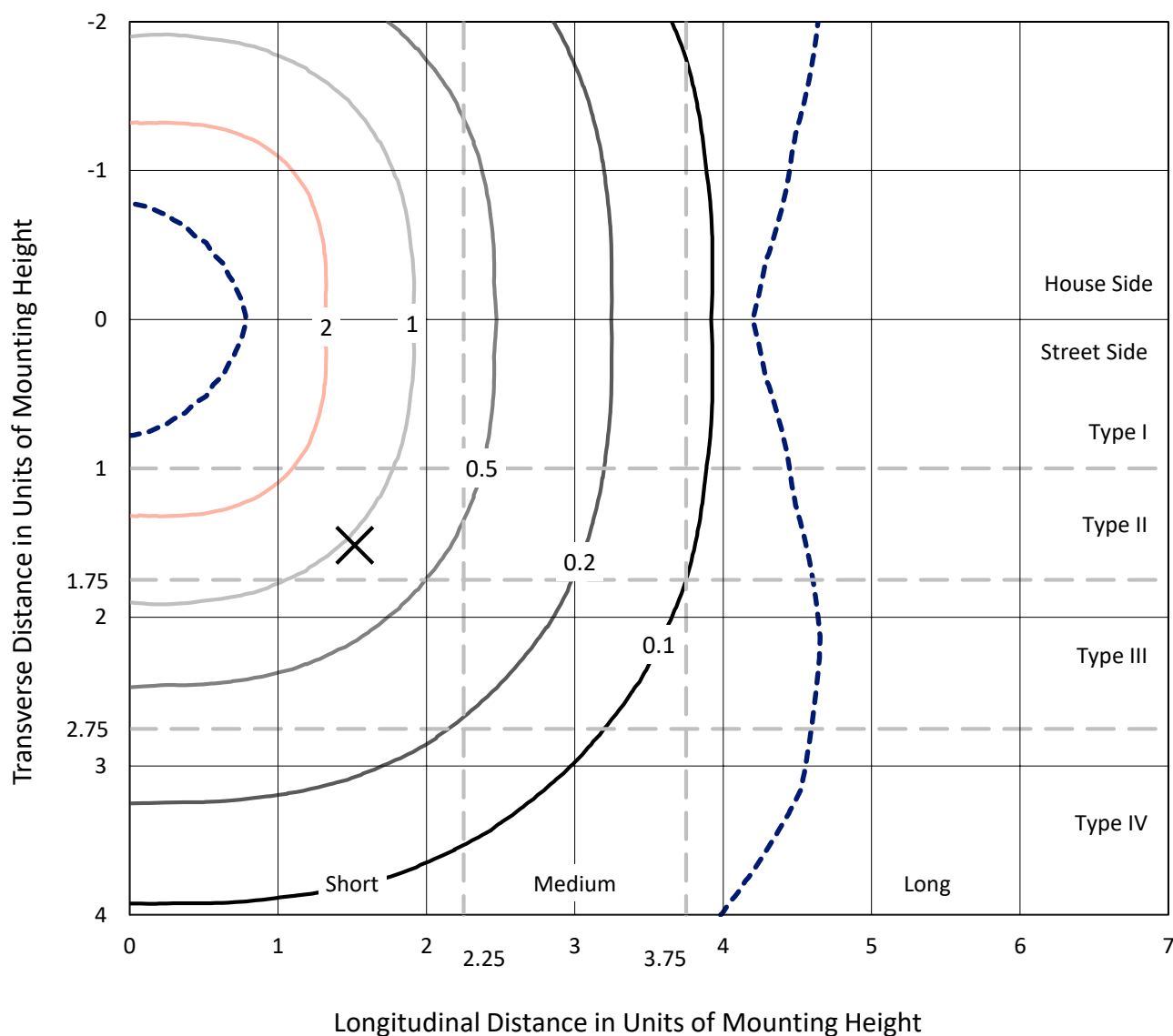


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

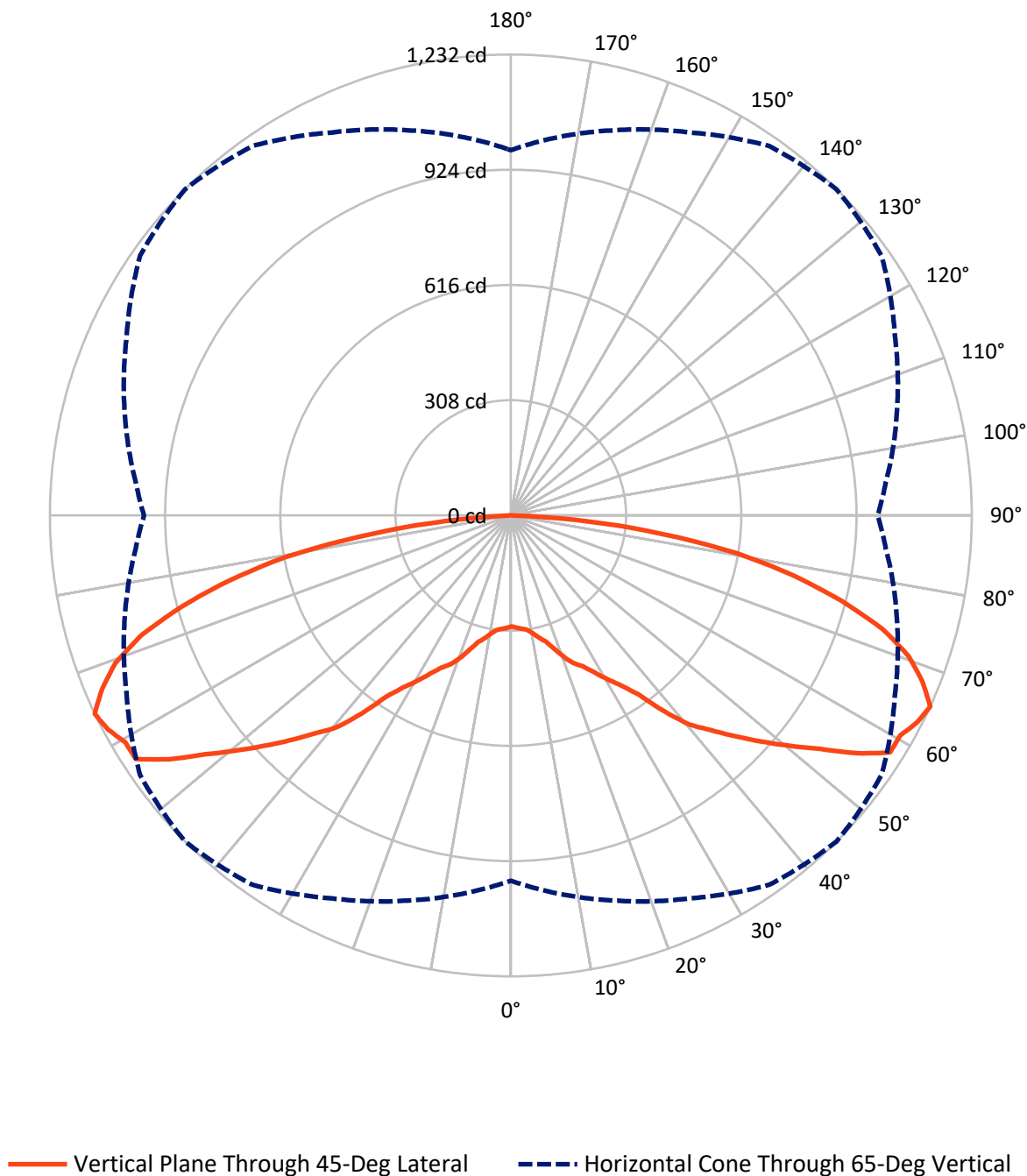


Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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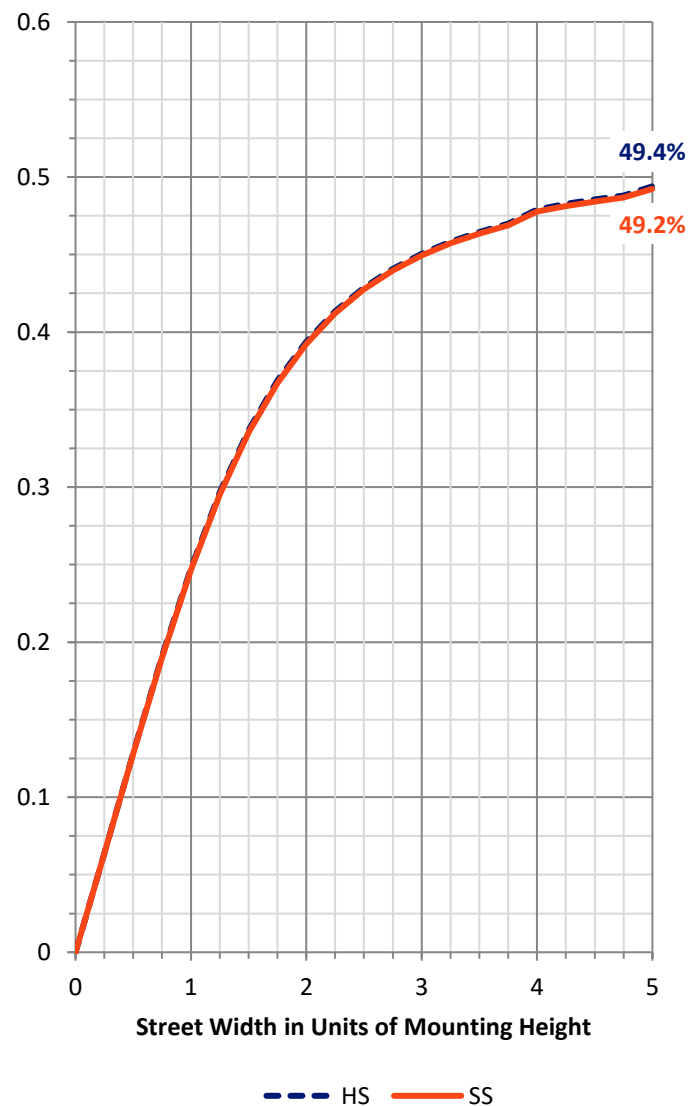
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2203.0	0.0	2203.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2203.0	0.0	2203.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4406.0	0.0	4406.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.6	0.7
10°-20°	101.7	2.3
20°-30°	208.8	4.7
30°-40°	371.0	8.4
40°-50°	625.4	14.2
50°-60°	922.6	20.9
60°-70°	1082.8	24.6
70°-80°	843.6	19.1
80°-90°	220.5	5.0
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°	4406.0	100.0
0°-180°	4406.0	100.0

Coefficient of Utilization



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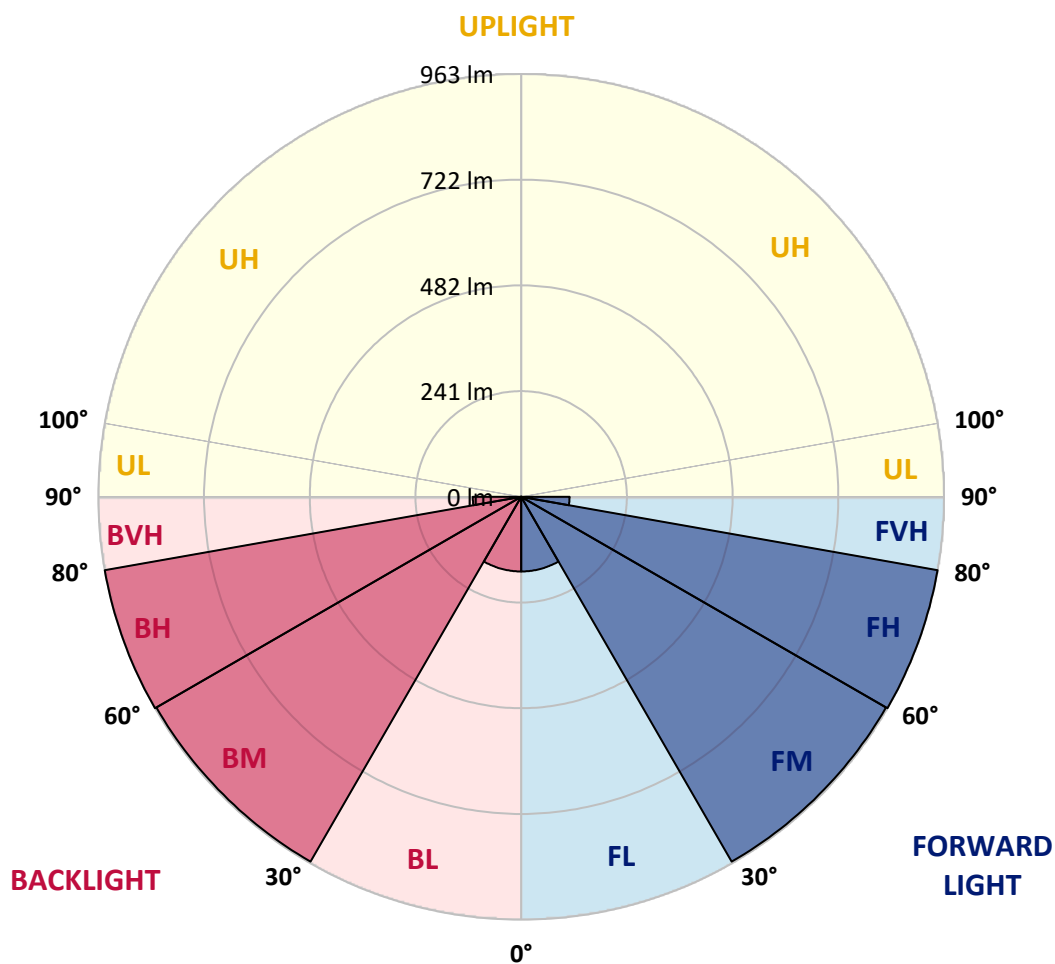
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	170.1	3.9			
FM	(30°-60°)	959.5	21.8			
FH	(60°-80°)	963.2	21.9			G1/1800
FVH	(80°-90°)	110.3	2.5			G2/225
BL	(0°-30°)	170.1	3.9	B1/500		
BM	(30°-60°)	959.5	21.8	B1/1000		
BH	(60°-80°)	963.2	21.9	B2/1000		G1/1800
BVH	(80°-90°)	110.3	2.5			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 V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5
2.5°	301.4	301.4	301.4	300.7	300.7	300.7	300.7	301.4	301.4	301.4	301.4
5°	308.3	308.3	306.9	305.5	304.2	304.2	304.9	305.5	306.2	307.6	307.6
7.5°	312.5	312.5	311.8	310.4	308.3	308.3	309.0	310.4	311.1	311.1	310.4
10°	318.0	318.7	320.8	321.5	320.1	320.1	320.8	321.5	320.1	318.0	318.0
12.5°	331.2	331.9	334.6	336.7	336.7	335.3	336.0	337.4	334.0	330.5	331.2
15°	349.9	349.9	350.6	352.7	351.3	349.9	351.3	352.0	349.9	349.2	350.6
17.5°	374.8	374.8	370.7	374.1	374.8	374.1	375.5	372.1	370.0	372.8	374.1
20°	401.8	399.1	397.0	399.8	405.3	403.2	406.0	398.4	396.3	397.7	398.4
22.5°	419.2	421.2	422.6	424.0	431.6	428.9	431.6	423.3	421.9	419.2	417.1
25°	440.0	442.0	450.3	446.2	451.0	446.9	450.3	445.5	448.3	440.0	440.0
27.5°	463.5	467.7	472.5	470.4	476.7	474.6	476.7	469.7	470.4	467.0	465.6
30°	495.4	495.4	494.0	498.2	509.2	507.9	508.5	499.5	493.3	494.0	496.8
32.5°	527.3	523.1	525.2	537.6	544.6	541.8	543.2	539.0	525.2	522.4	524.5
35°	557.0	563.3	568.1	578.5	588.2	586.8	586.1	579.2	570.2	559.1	555.7
37.5°	603.5	610.4	623.6	642.3	659.6	663.1	654.0	645.0	624.3	608.3	600.0
40°	664.4	665.1	680.4	716.4	732.3	735.1	730.3	715.0	683.1	665.1	664.4
42.5°	717.8	712.9	737.9	768.4	782.9	784.3	780.8	768.4	737.9	712.2	717.1
45°	759.4	759.4	789.2	813.4	837.0	842.5	836.3	809.9	789.8	760.1	758.0
47.5°	797.5	807.9	832.8	862.6	895.8	903.5	895.8	864.7	830.7	808.5	796.8
50°	843.2	855.7	873.7	920.1	957.5	967.9	956.8	922.9	873.7	855.0	848.0
52.5°	896.5	906.9	935.3	993.5	1021.3	1036.5	1027.5	994.9	936.7	908.3	902.8
55°	960.3	950.6	994.9	1051.0	1102.3	1122.4	1104.4	1052.4	1001.9	950.6	960.3
57.5°	992.8	981.8	1044.1	1097.5	1168.8	1195.2	1173.0	1101.6	1044.1	985.2	992.2
60°	995.6	1000.5	1047.6	1134.9	1184.1	1195.2	1188.2	1141.1	1049.7	1004.6	991.5
62.5°	987.3	1017.1	1057.3	1147.4	1191.7	1218.7	1195.2	1148.7	1061.4	1021.9	988.0
65°	976.2	1006.0	1065.6	1129.3	1204.9	1231.9	1209.7	1132.8	1068.4	1006.0	980.4
67.5°	956.8	946.4	1019.9	1105.1	1170.9	1186.8	1173.0	1106.5	1019.2	945.0	958.9
70°	895.2	886.1	949.2	1042.7	1105.8	1128.0	1111.3	1044.1	950.6	888.2	896.5
72.5°	803.7	806.5	867.4	956.8	1024.7	1038.6	1029.6	956.1	870.9	809.9	798.8
75°	697.0	703.9	762.1	843.2	904.9	913.2	904.2	846.7	761.4	708.1	693.5
77.5°	573.0	583.4	630.5	711.6	752.4	771.1	756.6	713.6	634.0	586.1	571.6
80°	444.1	447.6	480.8	546.0	600.0	612.5	598.6	548.0	485.0	449.0	438.6
82.5°	291.0	296.5	326.3	376.2	411.5	408.1	411.5	372.1	329.8	295.2	277.8
85°	129.6	140.6	160.7	184.3	207.2	213.4	207.2	187.1	160.7	137.9	135.1
87.5°	9.0	10.4	12.5	13.2	14.5	11.1	11.1	11.1	9.7	11.1	9.0
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)