

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: P400605

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

Issue Date: 6/3/2020

Test Information

Test Method: LM-79-08
Report Number: P400605
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1908-473-17)
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-CQ
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
2700K, 80 CRI LEDS AND CONCENTRATED DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4354 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

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

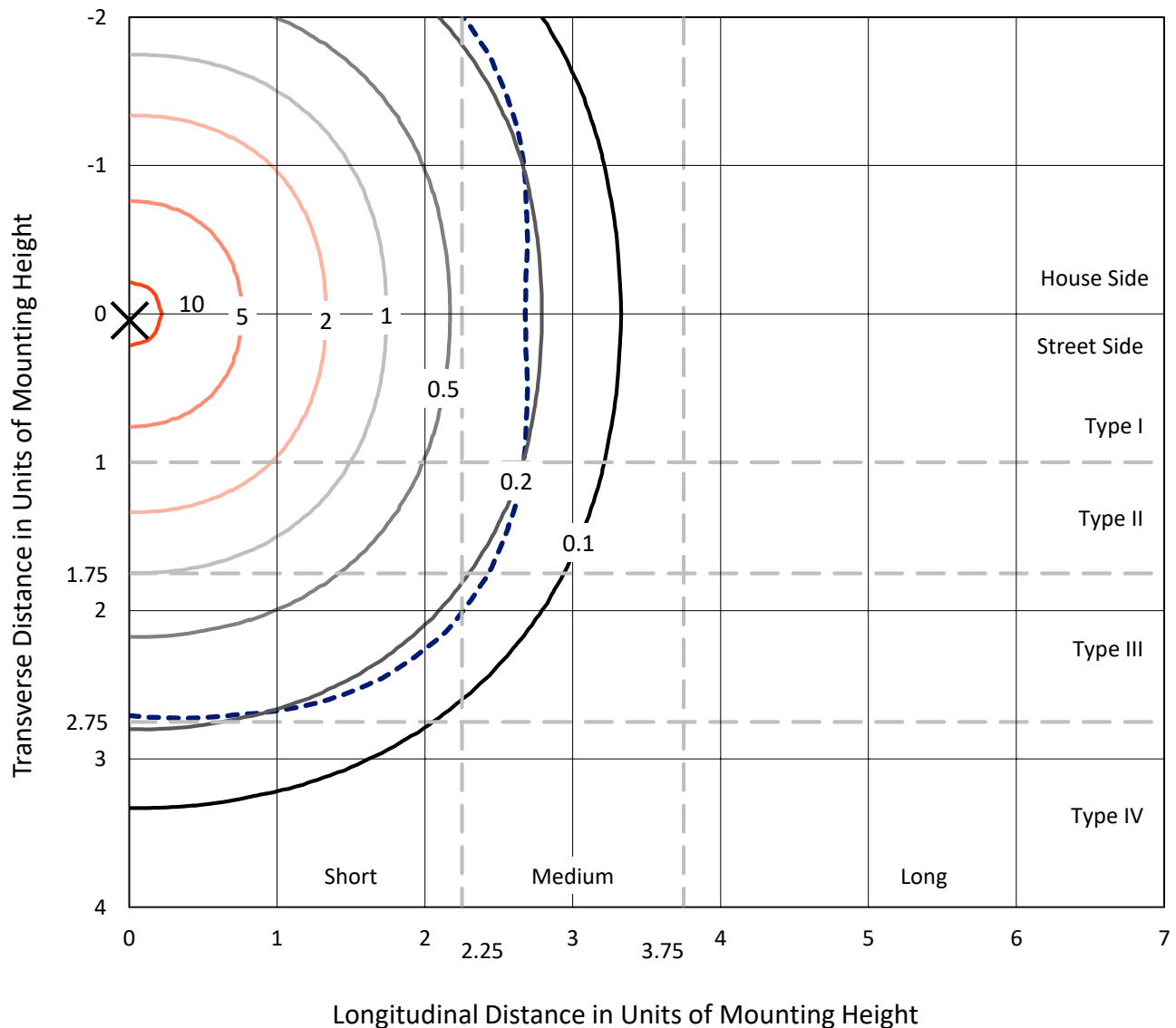


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

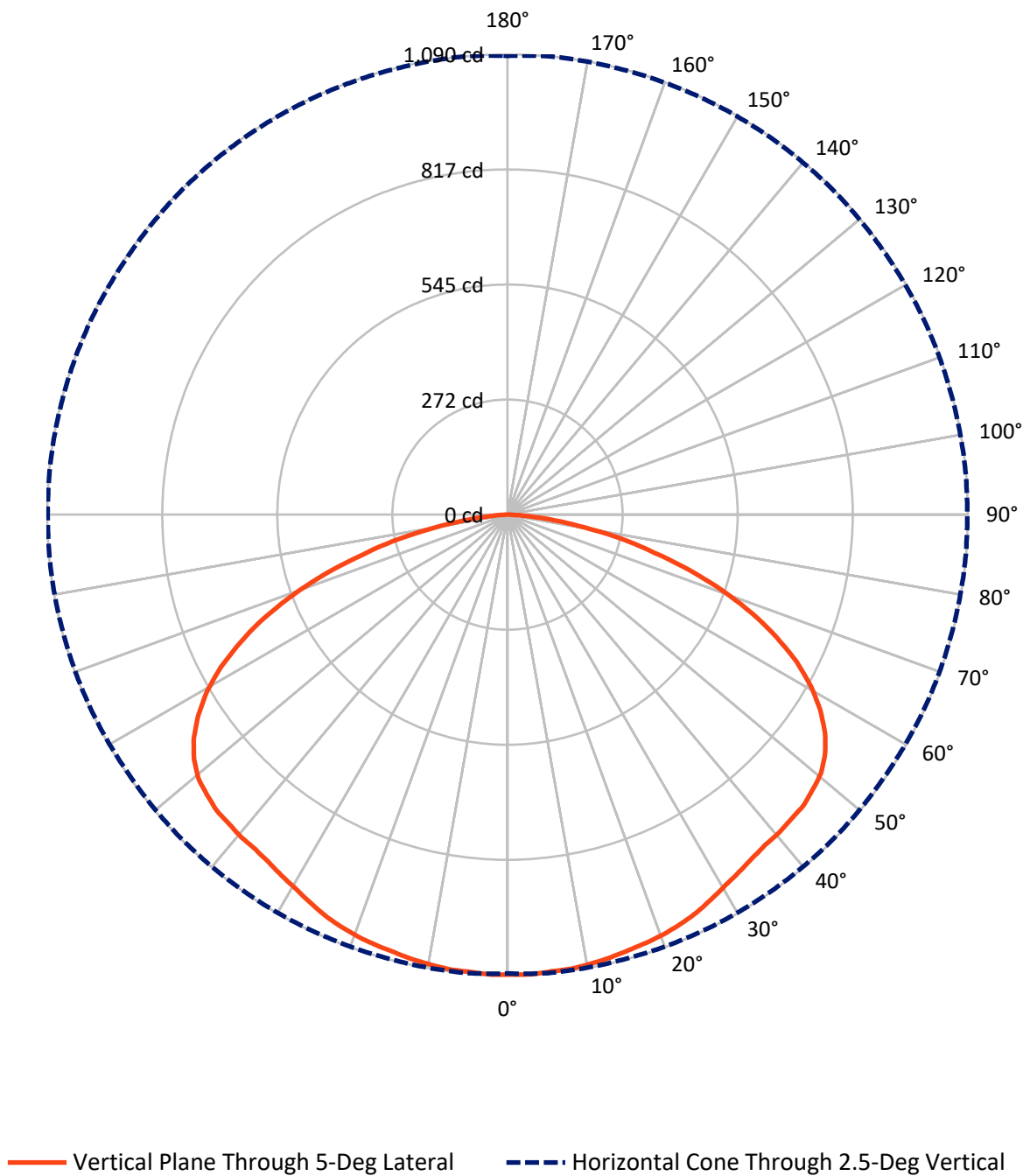


Based on 10 foot mounting height. Maximum calculated value = 10.9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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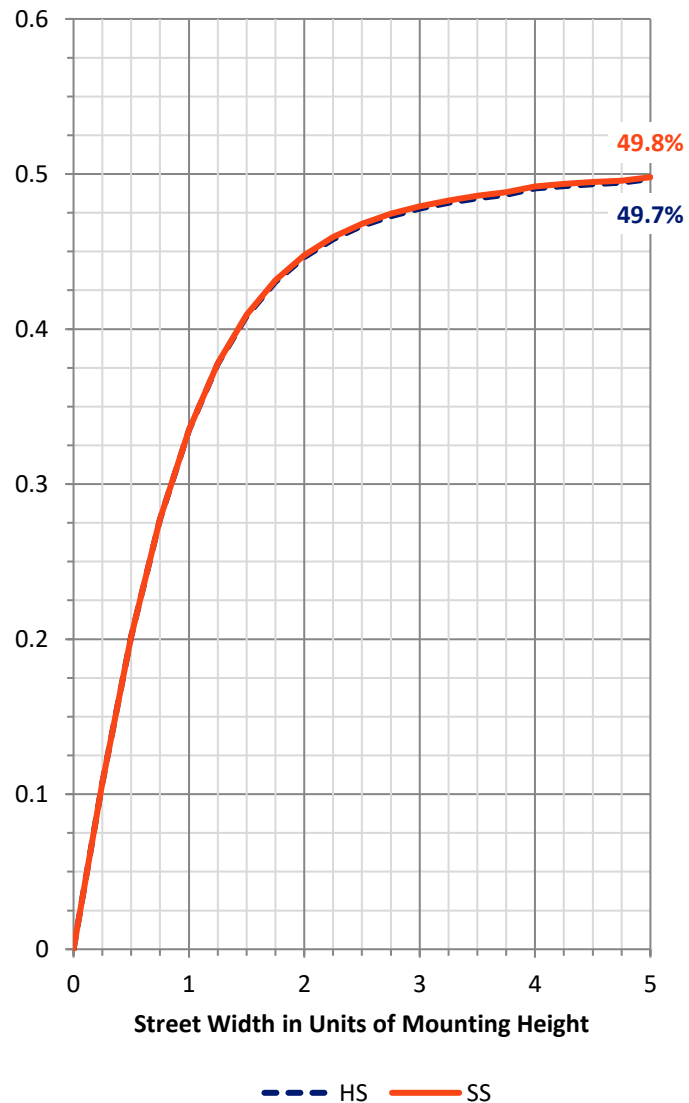
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2177.0	0.0	2177.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2177.0	0.0	2177.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4354.0	0.0	4354.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	2.4
10°-20°	303.4	7.0
20°-30°	482.5	11.1
30°-40°	634.7	14.6
40°-50°	776.8	17.8
50°-60°	841.4	19.3
60°-70°	723.9	16.6
70°-80°	407.0	9.3
80°-90°	80.7	1.9
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°	4354.0	100.0
0°-180°	4354.0	100.0

Coefficient of Utilization



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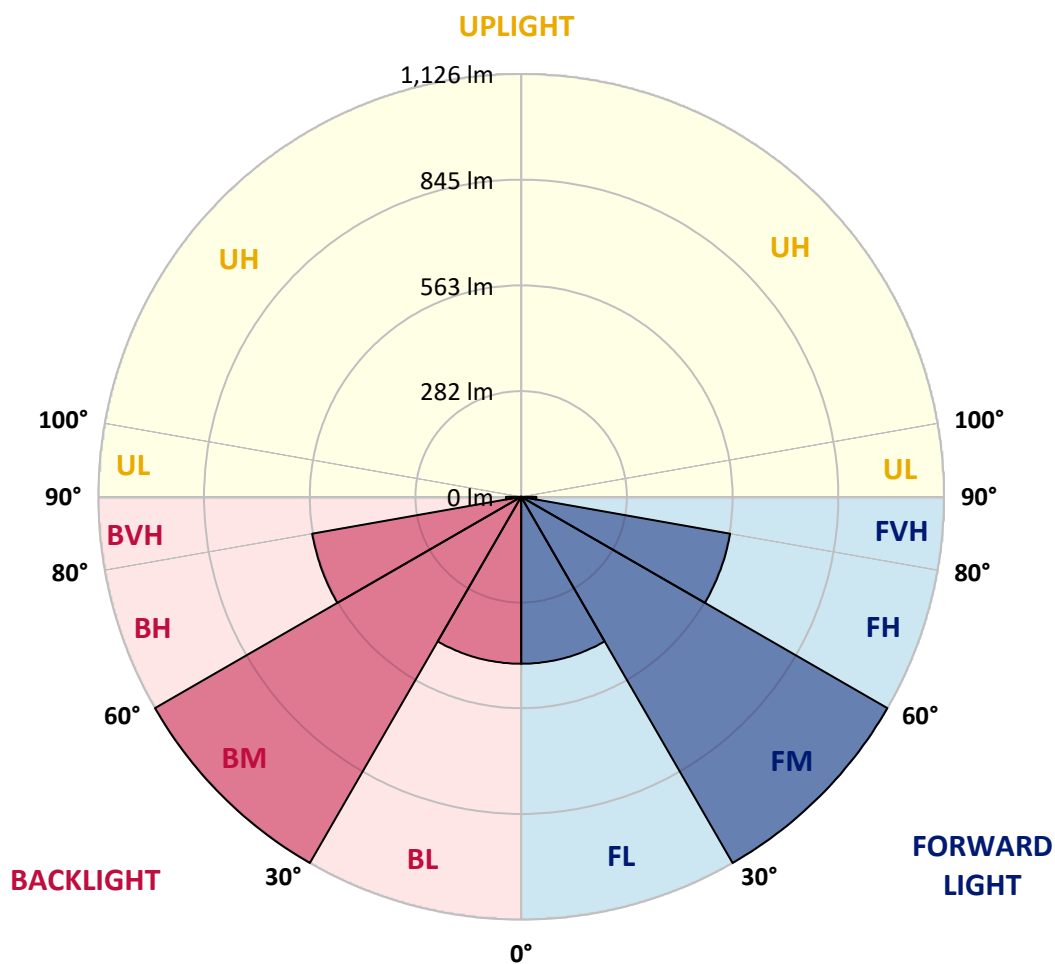
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	444.7	10.2			
FM	(30°-60°)	1126.5	25.9			
FH	(60°-80°)	565.4	13.0			G0/660
FVH	(80°-90°)	40.3	0.9			G1/100
BL	(0°-30°)	444.7	10.2	B1/500		
BM	(30°-60°)	1126.5	25.9	B2/2500		
BH	(60°-80°)	565.4	13.0	B2/1000		G0/660
BVH	(80°-90°)	40.3	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1089.2	1089.2	1089.2	1089.2	1089.2	1089.2	1089.2	1089.2	1089.2	1089.2	1089.2
2.5°	1086.5	1089.9	1088.6	1088.6	1088.6	1088.6	1087.2	1088.6	1088.6	1089.2	1088.6
5°	1087.2	1086.5	1086.5	1087.2	1087.2	1087.9	1086.5	1087.2	1087.9	1087.9	1088.6
7.5°	1085.1	1085.8	1084.4	1085.8	1084.4	1085.1	1085.1	1085.8	1085.1	1085.8	1087.2
10°	1080.9	1081.6	1080.9	1080.9	1080.9	1082.3	1079.5	1081.6	1080.9	1081.6	1080.9
12.5°	1073.3	1076.8	1075.4	1076.8	1076.8	1076.8	1074.7	1076.1	1076.8	1076.8	1076.8
15°	1069.8	1070.5	1068.5	1071.2	1071.9	1072.6	1069.8	1071.2	1071.2	1071.9	1072.6
17.5°	1062.2	1065.7	1065.0	1067.1	1066.4	1068.5	1067.8	1067.1	1066.4	1067.8	1066.4
20°	1056.7	1060.1	1059.4	1061.5	1062.2	1064.3	1062.2	1062.2	1060.1	1060.8	1062.9
22.5°	1051.1	1052.5	1052.5	1054.6	1054.6	1056.7	1054.6	1053.9	1053.9	1053.2	1055.3
25°	1042.1	1042.8	1042.1	1044.2	1045.6	1047.0	1046.3	1044.9	1044.2	1044.2	1043.5
27.5°	1027.6	1030.3	1031.7	1034.5	1035.2	1037.3	1034.5	1034.5	1033.1	1031.7	1032.4
30°	1016.5	1017.9	1017.9	1024.1	1024.1	1027.6	1024.1	1023.4	1022.7	1022.0	1020.6
32.5°	1006.1	1008.2	1010.3	1015.1	1018.6	1020.0	1017.9	1016.5	1013.0	1010.9	1010.3
35°	997.8	998.5	1002.6	1009.6	1013.7	1017.2	1014.4	1010.9	1006.1	1002.6	1005.4
37.5°	991.5	992.2	998.5	1007.5	1015.1	1017.9	1013.7	1008.2	1000.6	996.4	995.0
40°	986.0	990.2	997.1	1009.6	1017.9	1022.0	1018.6	1010.9	999.9	991.5	990.9
42.5°	983.2	985.3	995.7	1010.3	1022.0	1027.6	1022.7	1012.3	998.5	988.8	988.1
45°	976.3	982.5	992.2	1010.9	1024.1	1031.0	1024.1	1010.9	994.3	983.2	981.2
47.5°	970.8	972.8	988.1	1009.6	1025.5	1031.0	1024.1	1007.5	986.7	972.1	970.8
50°	957.6	962.4	977.7	1000.6	1019.3	1024.8	1016.5	994.3	970.8	954.8	952.0
52.5°	937.5	941.7	959.7	988.1	1006.1	1012.3	999.9	976.3	948.6	929.2	929.2
55°	906.3	912.6	931.3	960.4	983.2	988.8	974.2	949.3	918.1	898.7	898.0
57.5°	868.9	873.1	893.2	925.0	947.2	955.5	941.0	913.2	882.1	859.2	857.1
60°	820.4	825.9	847.4	877.9	900.8	907.7	895.2	867.5	835.6	811.4	811.4
62.5°	762.2	768.4	789.9	821.1	844.6	855.0	837.7	811.4	778.1	754.6	752.5
65°	694.3	699.8	719.2	751.8	776.1	783.7	770.5	742.8	710.9	688.7	686.7
67.5°	618.1	625.7	645.1	672.8	693.6	703.3	695.0	670.0	636.8	613.9	611.8
70°	535.6	541.2	556.4	582.0	605.6	612.5	600.1	583.4	552.2	531.5	528.7
72.5°	447.6	452.5	464.9	489.2	505.8	514.8	507.9	486.4	461.5	444.2	446.9
75°	358.9	358.2	372.1	389.4	404.7	410.9	406.0	392.2	369.3	354.8	354.1
77.5°	270.2	277.2	282.0	296.6	309.0	313.9	307.0	295.9	278.5	266.8	268.8
80°	189.9	185.7	194.7	203.7	212.0	216.9	212.7	206.5	194.7	185.7	184.3
82.5°	116.4	112.9	117.1	125.4	131.0	132.3	133.0	125.4	120.6	113.6	115.0
85°	51.3	52.0	55.4	61.0	61.7	62.4	62.4	61.0	55.4	54.7	53.4
87.5°	12.5	12.5	13.2	15.2	15.2	15.9	15.9	13.9	13.2	11.8	12.5
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)