

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: P197563

Luminaire Tested: **TT-C2-LED-E1-CQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197563
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33411)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C2-LED-E1-CQ-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
CONCENTRATED DISTRIBUTION
Light Source: (168) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4577.1 lumens
Efficiency: N/A
Efficacy: 134.6 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): 34
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

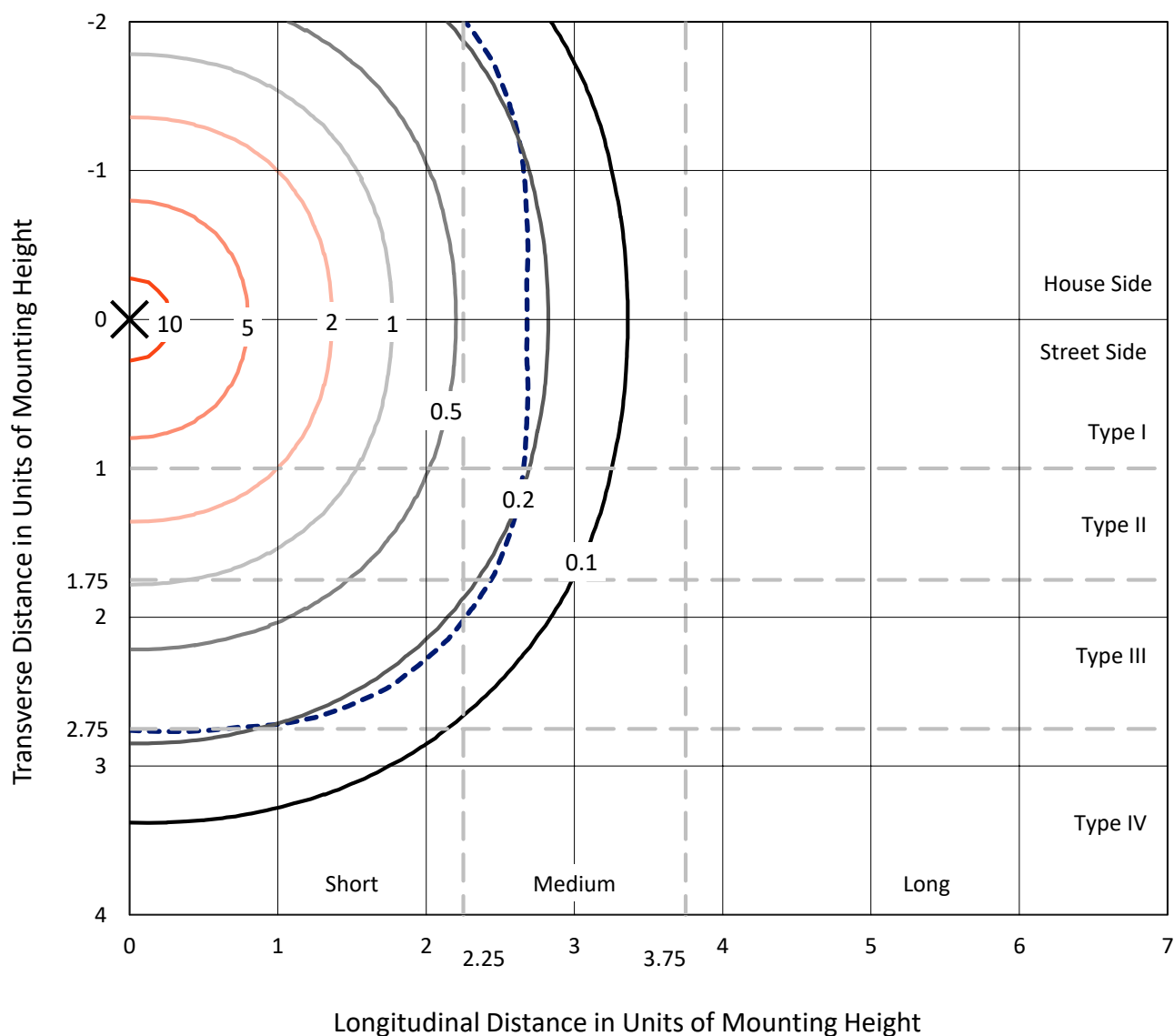


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

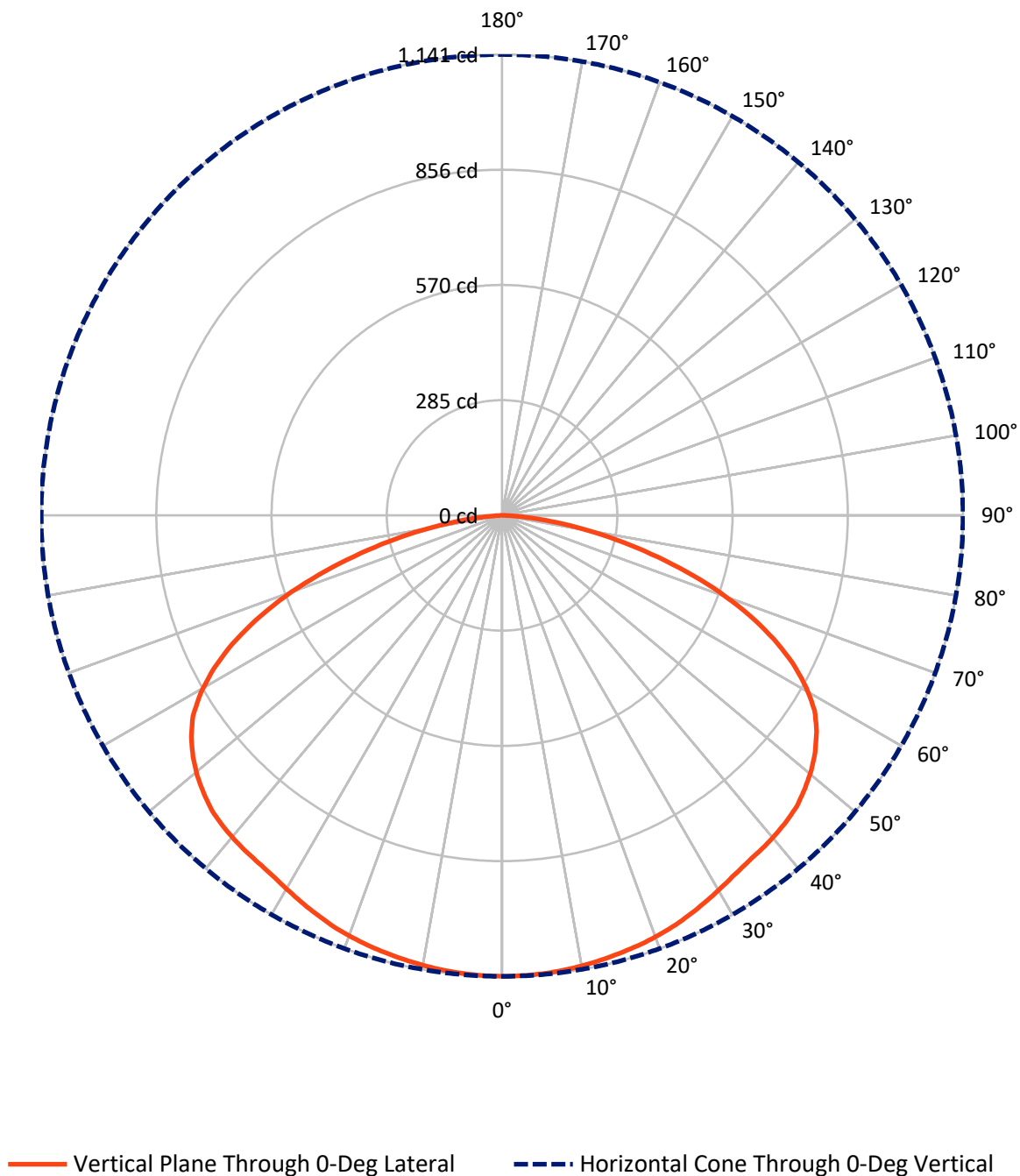


Based on 10 foot mounting height. Maximum calculated value = 11.4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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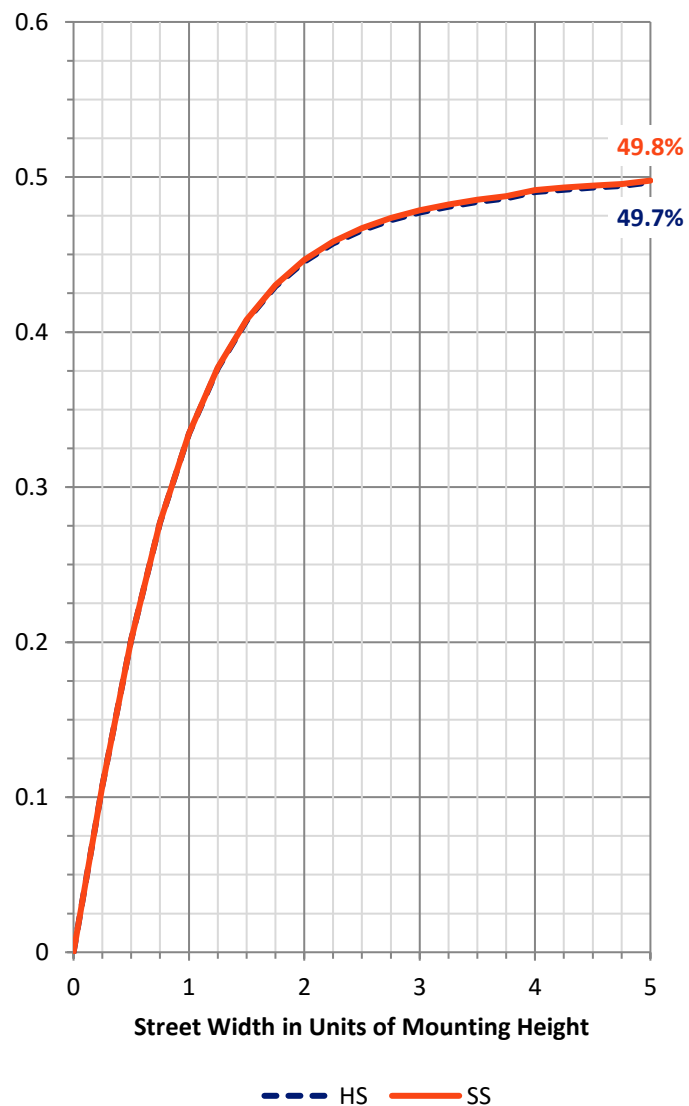
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2288.6	0.0	2288.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2288.6	0.0	2288.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	4577.1	0.0	4577.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.4	2.4
10°-20°	317.4	6.9
20°-30°	505.0	11.0
30°-40°	667.9	14.6
40°-50°	815.0	17.8
50°-60°	880.2	19.2
60°-70°	762.2	16.7
70°-80°	432.2	9.4
80°-90°	88.9	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°	4577.1	100.0
0°-180°	4577.1	100.0

Coefficient of Utilization



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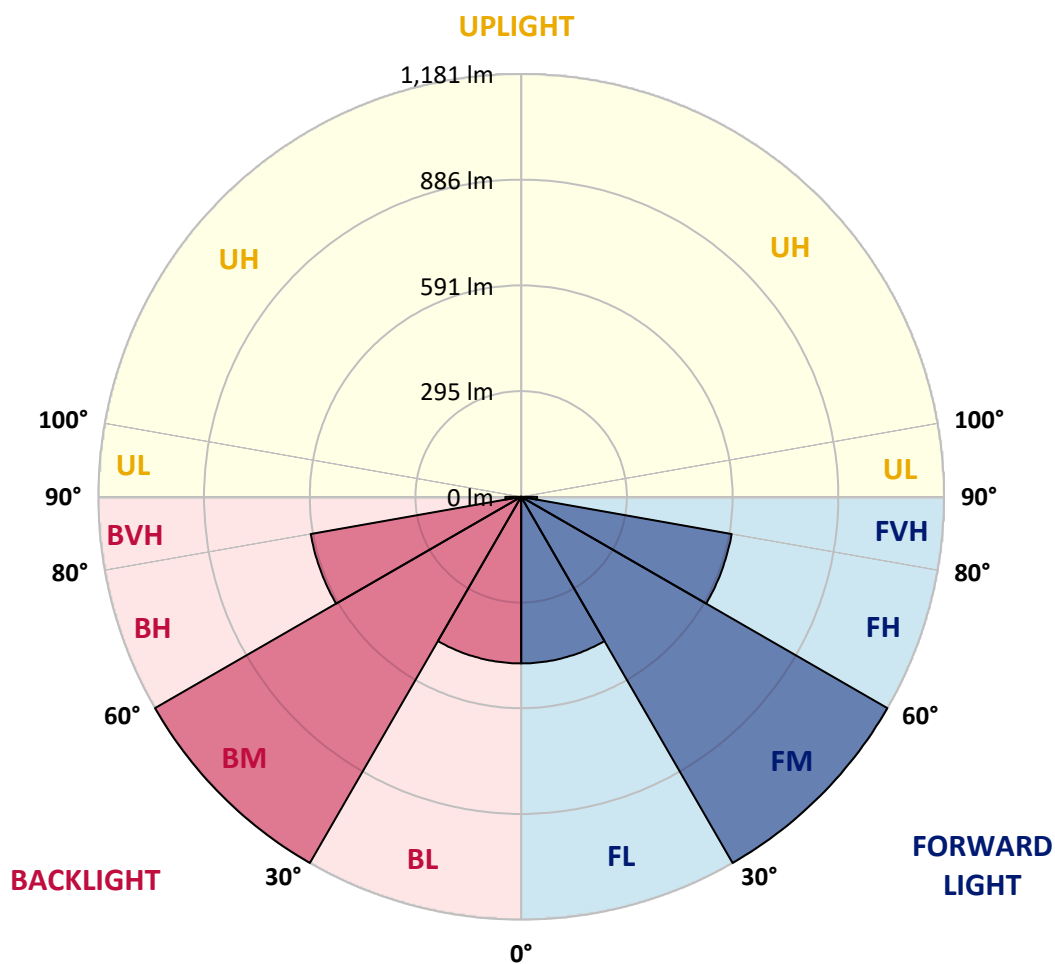
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	465.4	10.2			
FM	(30°-60°)	1181.5	25.8			
FH	(60°-80°)	597.2	13.0			G0/660
FVH	(80°-90°)	44.4	1.0			G1/100
BL	(0°-30°)	465.4	10.2	B1/500		
BM	(30°-60°)	1181.5	25.8	B2/2500		
BH	(60°-80°)	597.2	13.0	B2/1000		G0/660
BVH	(80°-90°)	44.4	1.0			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°	1140.7	1140.7	1140.7	1140.7	1140.7	1140.7	1140.7	1140.7	1140.7	1140.7	1140.7
2.5°	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9
5°	1138.3	1138.3	1138.3	1138.3	1138.3	1138.3	1138.3	1138.3	1138.3	1138.3	1138.3
7.5°	1135.2	1135.2	1135.2	1135.2	1135.2	1135.9	1135.2	1135.2	1135.2	1135.2	1135.9
10°	1131.2	1131.2	1132.0	1132.0	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2
12.5°	1126.5	1126.5	1126.5	1126.5	1126.5	1126.5	1126.5	1126.5	1125.7	1125.7	1125.7
15°	1121.0	1121.0	1121.0	1121.8	1121.8	1121.8	1121.8	1121.0	1120.2	1119.4	1120.2
17.5°	1115.5	1115.5	1116.3	1117.0	1117.0	1117.0	1117.0	1115.5	1114.7	1113.9	1113.9
20°	1108.4	1109.2	1109.2	1110.0	1110.7	1110.7	1110.7	1110.0	1108.4	1106.8	1106.8
22.5°	1100.5	1101.3	1102.1	1102.9	1103.6	1102.9	1102.9	1102.1	1100.5	1099.7	1098.9
25°	1090.3	1090.3	1091.8	1093.4	1094.2	1094.2	1094.2	1092.6	1091.0	1090.3	1089.5
27.5°	1080.0	1080.0	1081.6	1084.0	1084.7	1085.5	1084.0	1083.2	1080.8	1079.2	1079.2
30°	1069.0	1069.0	1071.4	1074.5	1076.9	1077.7	1076.9	1073.7	1070.6	1069.0	1069.0
32.5°	1058.7	1059.5	1061.9	1066.6	1070.6	1072.1	1071.4	1067.4	1063.5	1060.3	1059.5
35°	1050.9	1051.7	1056.4	1061.9	1068.2	1070.6	1068.2	1064.3	1058.0	1053.2	1053.2
37.5°	1046.1	1046.1	1052.4	1061.9	1069.0	1072.1	1069.0	1063.5	1054.8	1048.5	1048.5
40°	1040.6	1042.2	1050.1	1061.9	1072.1	1076.9	1072.9	1065.0	1054.0	1046.1	1045.4
42.5°	1033.5	1035.9	1044.6	1060.3	1072.9	1080.0	1076.1	1066.6	1053.2	1044.6	1043.8
45°	1024.1	1024.9	1035.9	1054.8	1071.4	1080.8	1077.7	1065.8	1050.9	1040.6	1039.1
47.5°	1009.1	1010.7	1024.1	1046.1	1066.6	1076.9	1074.5	1061.1	1042.2	1030.4	1028.0
50°	991.8	993.4	1009.1	1034.3	1057.2	1069.0	1065.0	1048.5	1028.0	1012.3	1010.7
52.5°	970.5	973.7	991.0	1019.4	1043.8	1054.8	1048.5	1027.2	1003.6	986.3	984.7
55°	944.5	947.7	967.4	997.3	1021.7	1030.4	1021.7	996.5	971.3	951.6	947.7
57.5°	912.2	914.6	933.5	965.0	988.6	995.7	984.7	958.7	928.8	907.5	905.1
60°	865.0	868.1	890.2	919.3	942.9	951.6	940.6	909.1	876.8	855.5	854.7
62.5°	808.2	813.8	832.7	864.2	885.4	897.3	882.3	850.0	817.7	793.3	793.3
65°	739.7	743.6	764.1	794.8	815.3	825.6	810.6	780.7	745.2	723.9	721.6
67.5°	660.9	664.1	682.2	713.7	735.8	744.4	727.9	699.5	666.4	643.6	641.2
70°	573.5	578.2	591.6	620.8	640.4	645.2	632.6	605.8	575.9	555.4	553.8
72.5°	478.2	482.1	499.4	522.3	538.0	539.6	531.7	512.0	481.3	464.8	462.4
75°	380.5	386.8	401.8	421.5	433.3	433.3	428.5	414.4	387.6	375.0	375.0
77.5°	288.3	291.5	307.2	320.6	330.1	334.8	329.3	316.7	295.4	286.7	282.0
80°	200.9	204.0	211.1	221.4	230.8	234.0	227.7	217.4	205.6	199.3	196.2
82.5°	122.9	126.0	130.0	135.5	141.8	144.9	141.0	134.7	124.5	123.7	122.9
85°	59.1	60.7	63.8	65.4	68.5	69.3	70.1	67.0	63.8	59.9	61.4
87.5°	18.1	18.1	18.9	19.7	21.3	21.3	21.3	20.5	18.9	18.1	18.1
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)