

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: P197562

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197562
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
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
CONCENTRATED DISTRIBUTION
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4831.4 lumens
Efficiency: N/A
Efficacy: 142.1 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): 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

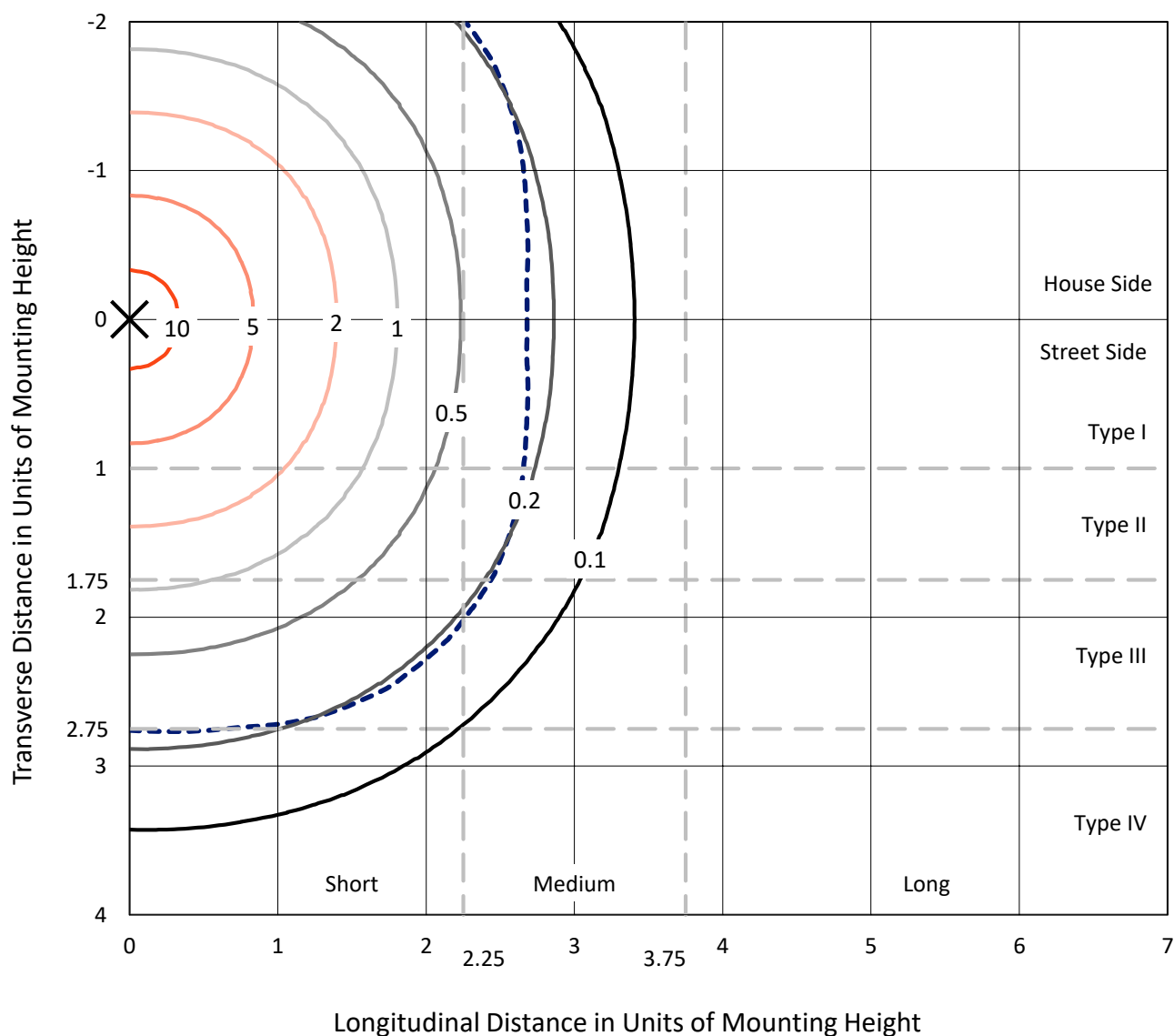


REPORT NUMBER: P197562

CATALOG NUMBER: TT-C2-LED-E1-CQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

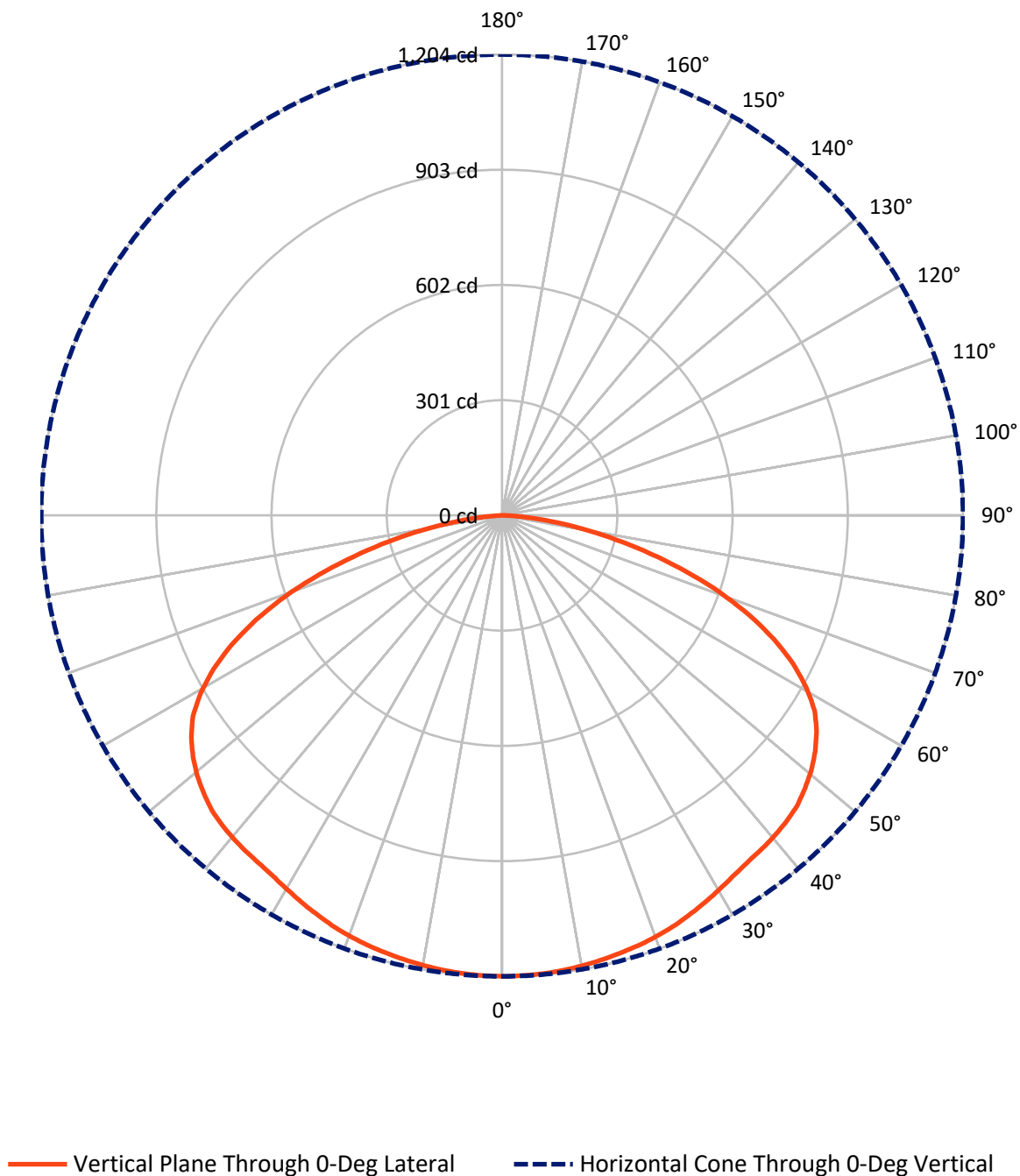


Based on 10 foot mounting height. Maximum calculated value = 12 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P197562

CATALOG NUMBER: TT-C2-LED-E1-CQ

Luminous Intensity Polar Plot



REPORT NUMBER: P197562

CATALOG NUMBER: TT-C2-LED-E1-CQ

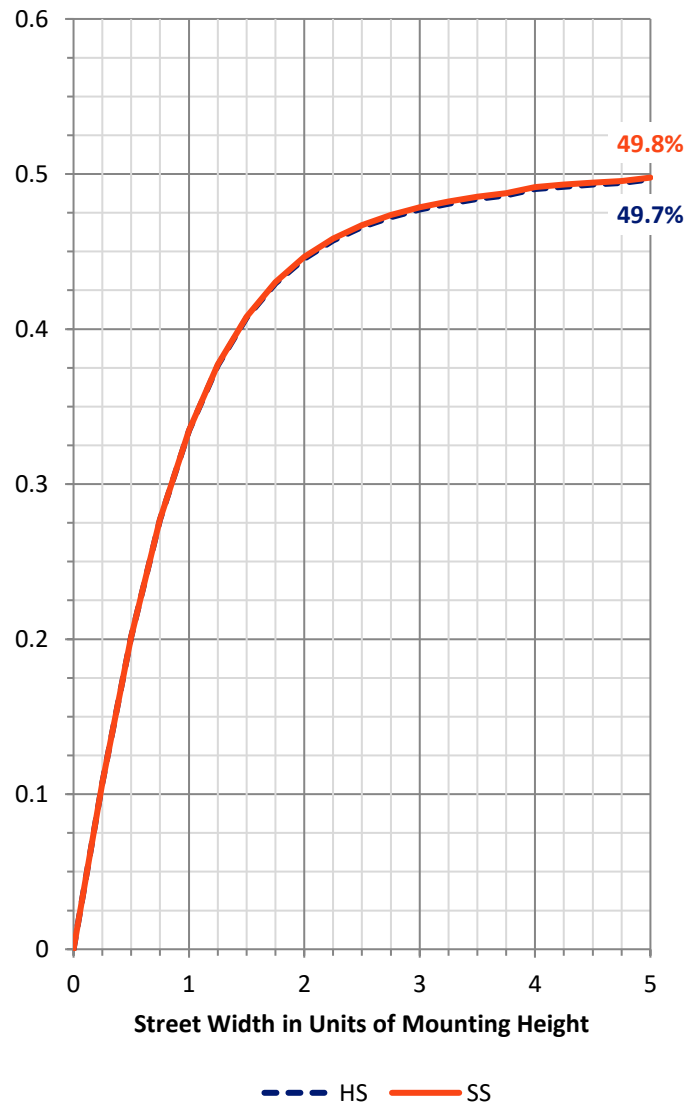
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2415.7	0.0	2415.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2415.7	0.0	2415.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	4831.4	0.0	4831.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.5	2.4
10°-20°	335.1	6.9
20°-30°	533.0	11.0
30°-40°	705.0	14.6
40°-50°	860.3	17.8
50°-60°	929.1	19.2
60°-70°	804.5	16.7
70°-80°	456.2	9.4
80°-90°	93.8	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°	4831.4	100.0
0°-180°	4831.4	100.0

Coefficient of Utilization



REPORT NUMBER: P197562

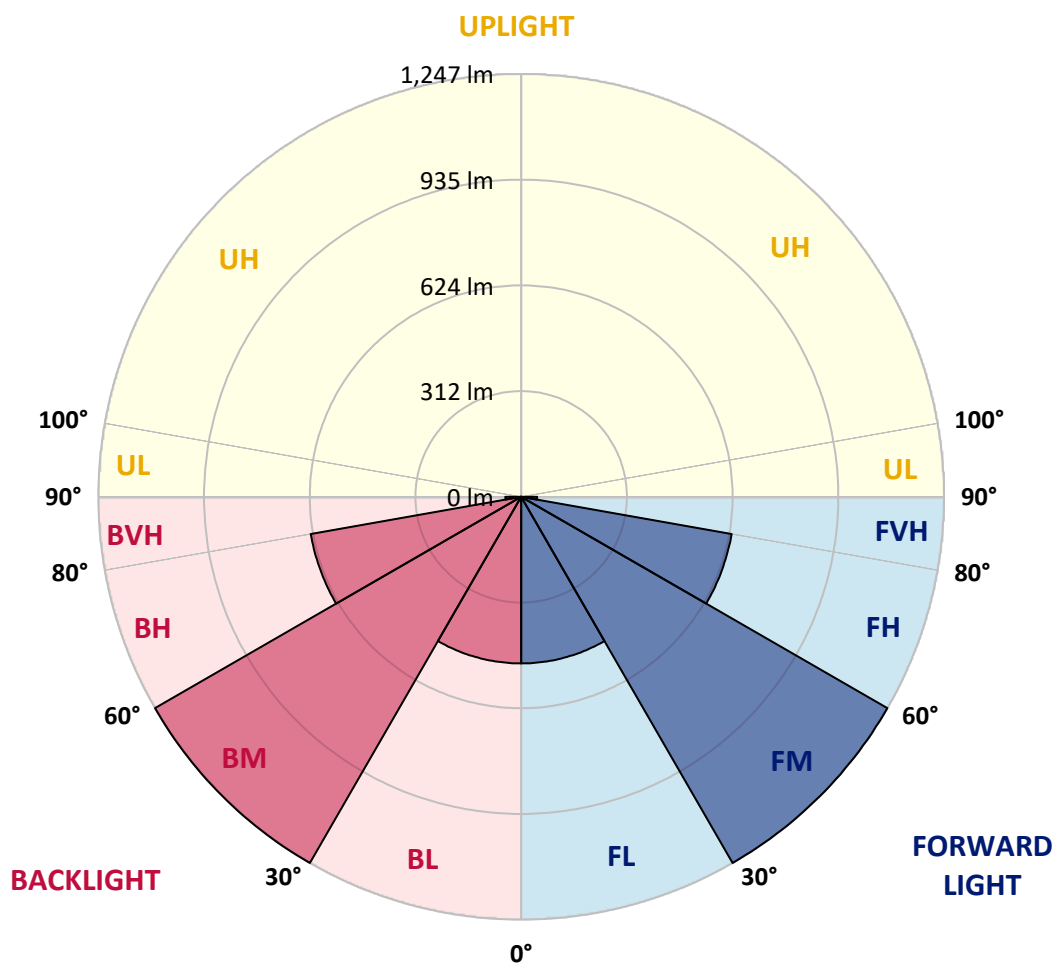
CATALOG NUMBER: TT-C2-LED-E1-CQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	491.3	10.2			
FM	(30°-60°)	1247.1	25.8			
FH	(60°-80°)	630.4	13.0			G0/660
FVH	(80°-90°)	46.9	1.0			G1/100
BL	(0°-30°)	491.3	10.2	B1/500		
BM	(30°-60°)	1247.1	25.8	B2/2500		
BH	(60°-80°)	630.4	13.0	B2/1000		G0/660
BVH	(80°-90°)	46.9	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



REPORT NUMBER: P197562

CATALOG NUMBER: TT-C2-LED-E1-CQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1204.1	1204.1	1204.1	1204.1	1204.1	1204.1	1204.1	1204.1	1204.1	1204.1	1204.1
2.5°	1203.2	1203.2	1203.2	1203.2	1203.2	1203.2	1203.2	1203.2	1203.2	1203.2	1203.2
5°	1201.6	1201.6	1201.6	1201.6	1201.6	1201.6	1201.6	1201.6	1201.6	1201.6	1201.6
7.5°	1198.2	1198.2	1198.2	1198.2	1198.2	1199.1	1198.2	1198.2	1198.2	1198.2	1199.1
10°	1194.1	1194.1	1194.9	1194.9	1194.1	1194.1	1194.1	1194.1	1194.1	1194.1	1194.1
12.5°	1189.1	1189.1	1189.1	1189.1	1189.1	1189.1	1189.1	1189.1	1188.3	1188.3	1188.3
15°	1183.3	1183.3	1183.3	1184.1	1184.1	1184.1	1184.1	1183.3	1182.4	1181.6	1182.4
17.5°	1177.4	1177.4	1178.3	1179.1	1179.1	1179.1	1179.1	1177.4	1176.6	1175.8	1175.8
20°	1170.0	1170.8	1170.8	1171.6	1172.5	1172.5	1172.5	1171.6	1170.0	1168.3	1168.3
22.5°	1161.6	1162.5	1163.3	1164.1	1165.0	1164.1	1164.1	1163.3	1161.6	1160.8	1160.0
25°	1150.8	1150.8	1152.5	1154.2	1155.0	1155.0	1155.0	1153.3	1151.7	1150.8	1150.0
27.5°	1140.0	1140.0	1141.7	1144.2	1145.0	1145.8	1144.2	1143.4	1140.9	1139.2	1139.2
30°	1128.4	1128.4	1130.9	1134.2	1136.7	1137.5	1136.7	1133.4	1130.0	1128.4	1128.4
32.5°	1117.6	1118.4	1120.9	1125.9	1130.0	1131.7	1130.9	1126.7	1122.6	1119.2	1118.4
35°	1109.3	1110.1	1115.1	1120.9	1127.6	1130.0	1127.6	1123.4	1116.7	1111.8	1111.8
37.5°	1104.3	1104.3	1110.9	1120.9	1128.4	1131.7	1128.4	1122.6	1113.4	1106.8	1106.8
40°	1098.4	1100.1	1108.4	1120.9	1131.7	1136.7	1132.5	1124.2	1112.6	1104.3	1103.4
42.5°	1091.0	1093.5	1102.6	1119.2	1132.5	1140.0	1135.9	1125.9	1111.8	1102.6	1101.8
45°	1081.0	1081.8	1093.5	1113.4	1130.9	1140.9	1137.5	1125.1	1109.3	1098.4	1096.8
47.5°	1065.2	1066.9	1081.0	1104.3	1125.9	1136.7	1134.2	1120.1	1100.1	1087.6	1085.1
50°	1046.9	1048.6	1065.2	1091.8	1115.9	1128.4	1124.2	1106.8	1085.1	1068.5	1066.9
52.5°	1024.4	1027.8	1046.1	1076.0	1101.8	1113.4	1106.8	1084.3	1059.4	1041.1	1039.4
55°	997.0	1000.3	1021.1	1052.7	1078.5	1087.6	1078.5	1051.9	1025.3	1004.5	1000.3
57.5°	962.9	965.4	985.4	1018.6	1043.6	1051.1	1039.4	1012.0	980.4	957.9	955.4
60°	913.0	916.3	939.6	970.4	995.3	1004.5	992.8	959.6	925.5	903.0	902.2
62.5°	853.1	859.0	878.9	912.2	934.6	947.1	931.3	897.2	863.1	837.3	837.3
65°	780.8	785.0	806.6	839.0	860.6	871.4	855.6	824.0	786.6	764.2	761.7
67.5°	697.7	701.0	720.1	753.4	776.6	785.8	768.3	738.4	703.5	679.4	676.9
70°	605.4	610.3	624.5	655.2	676.0	681.0	667.7	639.4	607.8	586.2	584.6
72.5°	504.7	508.9	527.2	551.3	567.9	569.6	561.3	540.5	508.1	490.6	488.1
75°	401.6	408.3	424.1	444.9	457.3	457.3	452.4	437.4	409.1	395.8	395.8
77.5°	304.3	307.7	324.3	338.4	348.4	353.4	347.6	334.3	311.8	302.7	297.7
80°	212.0	215.4	222.8	233.7	243.6	247.0	240.3	229.5	217.0	210.4	207.1
82.5°	129.7	133.0	137.2	143.0	149.7	153.0	148.8	142.2	131.4	130.6	129.7
85°	62.4	64.0	67.4	69.0	72.3	73.2	74.0	70.7	67.4	63.2	64.9
87.5°	19.1	19.1	20.0	20.8	22.5	22.5	22.5	21.6	20.0	19.1	19.1
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)