

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: P821173

Luminaire Tested: **TT-D4-830-24VDC-WQ**

Issue Date: 2/18/2020

Test Information

Test Method: LM-79-08
Report Number: P821173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1908-473-14)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/18/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-D4-830-24VDC-WQ
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
3000K, 80 CRI LEDS AND WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

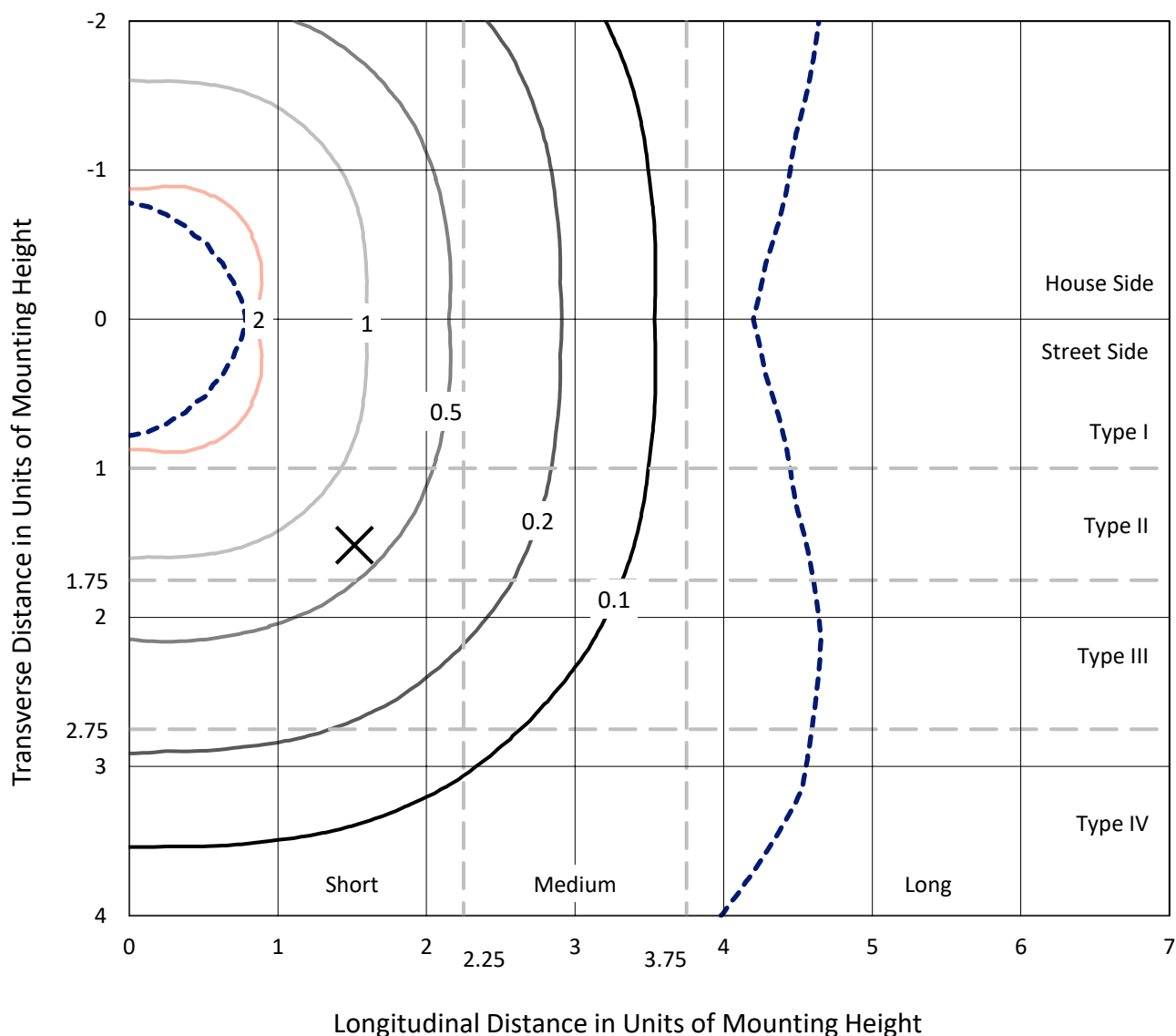
Lumens per Lamp: N/A
Luminaire Lumens: 6740 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 57
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

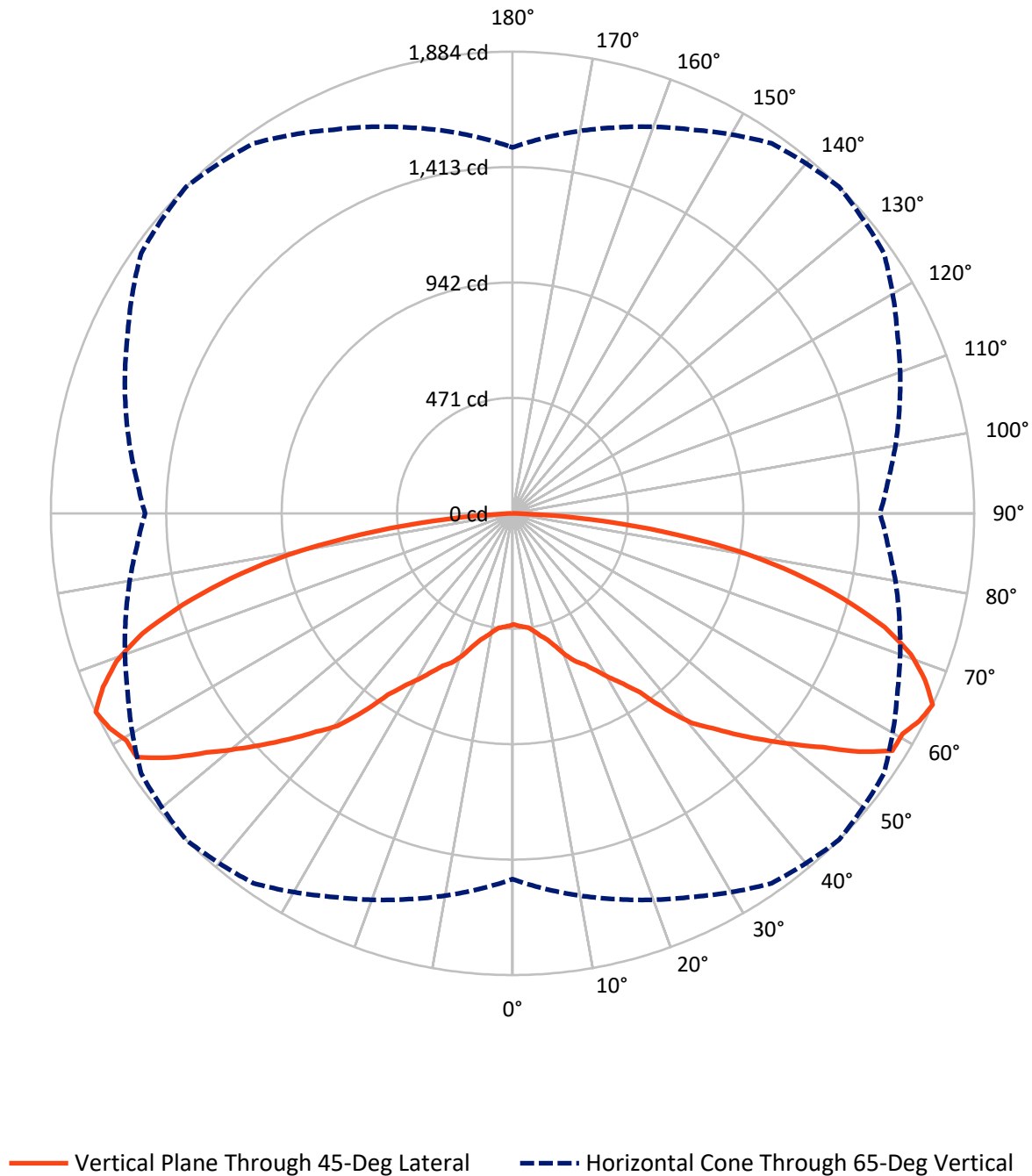
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3370.0	0.0	3370.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3370.0	0.0	3370.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6740.0	0.0	6740.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.2	0.7
10°-20°	155.6	2.3
20°-30°	319.5	4.7
30°-40°	567.6	8.4
40°-50°	956.7	14.2
50°-60°	1411.3	20.9
60°-70°	1656.3	24.6
70°-80°	1290.4	19.1
80°-90°	337.4	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°	6740.0	100.0
0°-180°	6740.0	100.0

Coefficient of Utilization



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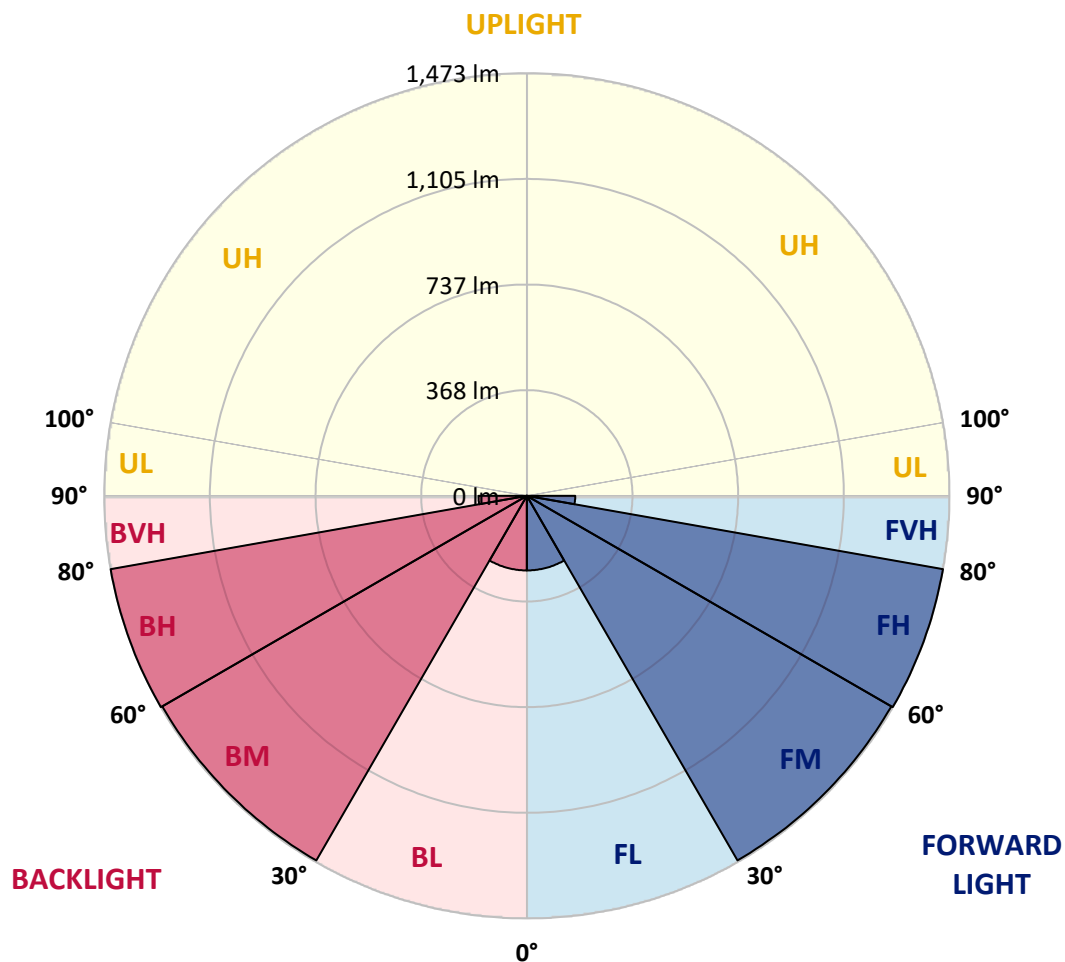
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	260.1	3.9			
FM	(30°-60°)	1467.8	21.8			
FH	(60°-80°)	1473.4	21.9			G1/1800
FVH	(80°-90°)	168.7	2.5			G2/225
BL	(0°-30°)	260.1	3.9	B1/500		
BM	(30°-60°)	1467.8	21.8	B2/2500		
BH	(60°-80°)	1473.4	21.9	B3/2500		G1/1800
BVH	(80°-90°)	168.7	2.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	453.6	453.6	453.6	453.6	453.6	453.6	453.6	453.6	453.6	453.6	453.6
2.5°	461.0	461.0	461.0	460.0	460.0	460.0	460.0	461.0	461.0	461.0	461.0
5°	471.6	471.6	469.5	467.4	465.3	465.3	466.3	467.4	468.5	470.6	470.6
7.5°	478.0	478.0	476.9	474.8	471.6	471.6	472.7	474.8	475.9	475.9	474.8
10°	486.5	487.5	490.7	491.8	489.7	489.7	490.7	491.8	489.7	486.5	486.5
12.5°	506.6	507.7	511.9	515.1	515.1	513.0	514.0	516.2	510.9	505.6	506.6
15°	535.2	535.2	536.3	539.5	537.4	535.2	537.4	538.4	535.2	534.2	536.3
17.5°	573.4	573.4	567.0	572.3	573.4	572.3	574.4	569.1	566.0	570.2	572.3
20°	614.7	610.5	607.3	611.5	620.0	616.8	621.1	609.4	606.2	608.4	609.4
22.5°	641.2	644.4	646.5	648.6	660.3	656.1	660.3	647.6	645.5	641.2	638.0
25°	673.0	676.2	688.9	682.6	690.0	683.6	688.9	681.5	685.7	673.0	673.0
27.5°	709.1	715.4	722.8	719.6	729.2	726.0	729.2	718.6	719.6	714.4	712.2
30°	757.8	757.8	755.7	762.0	779.0	776.9	777.9	764.2	754.6	755.7	759.9
32.5°	806.6	800.2	803.4	822.5	833.1	828.8	830.9	824.6	803.4	799.1	802.3
35°	852.1	861.7	869.1	885.0	899.8	897.7	896.6	886.0	872.3	855.3	850.0
37.5°	923.1	933.7	953.9	982.5	1009.0	1014.3	1000.5	986.7	954.9	930.6	917.8
40°	1016.4	1017.5	1040.8	1095.9	1120.3	1124.5	1117.1	1093.8	1045.0	1017.5	1016.4
42.5°	1098.0	1090.6	1128.8	1175.4	1197.6	1199.8	1194.5	1175.4	1128.8	1089.5	1097.0
45°	1161.6	1161.6	1207.2	1244.3	1280.3	1288.8	1279.3	1239.0	1208.2	1162.7	1159.5
47.5°	1219.9	1235.8	1274.0	1319.5	1370.4	1382.1	1370.4	1322.7	1270.8	1236.9	1218.8
50°	1289.9	1308.9	1336.5	1407.5	1464.7	1480.6	1463.7	1411.7	1336.5	1307.9	1297.3
52.5°	1371.5	1387.4	1430.8	1519.8	1562.2	1585.6	1571.8	1522.0	1432.9	1389.5	1381.0
55°	1469.0	1454.1	1522.0	1607.8	1686.2	1717.0	1689.4	1609.9	1532.6	1454.1	1469.0
57.5°	1518.8	1501.8	1597.2	1678.8	1788.0	1828.3	1794.4	1685.2	1597.2	1507.1	1517.7
60°	1523.0	1530.4	1602.5	1736.1	1811.3	1828.3	1817.7	1745.6	1605.7	1536.8	1516.7
62.5°	1510.3	1555.9	1617.4	1755.1	1823.0	1864.3	1828.3	1757.3	1623.7	1563.3	1511.4
65°	1493.4	1538.9	1630.1	1727.6	1843.1	1884.4	1850.5	1732.9	1634.3	1538.9	1499.7
67.5°	1463.7	1447.8	1560.1	1690.5	1791.2	1815.6	1794.4	1692.6	1559.1	1445.7	1466.9
70°	1369.3	1355.6	1452.0	1595.1	1691.5	1725.5	1700.0	1597.2	1454.1	1358.7	1371.5
72.5°	1229.4	1233.7	1327.0	1463.7	1567.5	1588.7	1575.0	1462.6	1332.3	1239.0	1222.0
75°	1066.2	1076.8	1165.9	1289.9	1384.2	1396.9	1383.1	1295.2	1164.8	1083.2	1060.9
77.5°	876.5	892.4	964.5	1088.5	1151.0	1179.6	1157.4	1091.7	969.8	896.6	874.4
80°	679.4	684.7	735.5	835.2	917.8	936.9	915.7	838.4	741.9	686.8	670.9
82.5°	445.1	453.6	499.2	575.5	629.6	624.3	629.6	569.1	504.5	451.5	425.0
85°	198.2	215.2	245.9	281.9	316.9	326.4	316.9	286.2	245.9	210.9	206.7
87.5°	13.8	15.9	19.1	20.1	22.3	17.0	17.0	17.0	14.8	17.0	13.8
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)