

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: P821247

Luminaire Tested: **TT-D4-735-24VDC-WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P821247
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1908-473-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-D4-735-24VDC-WQ
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
3500K, 70 CRI LEDS AND WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

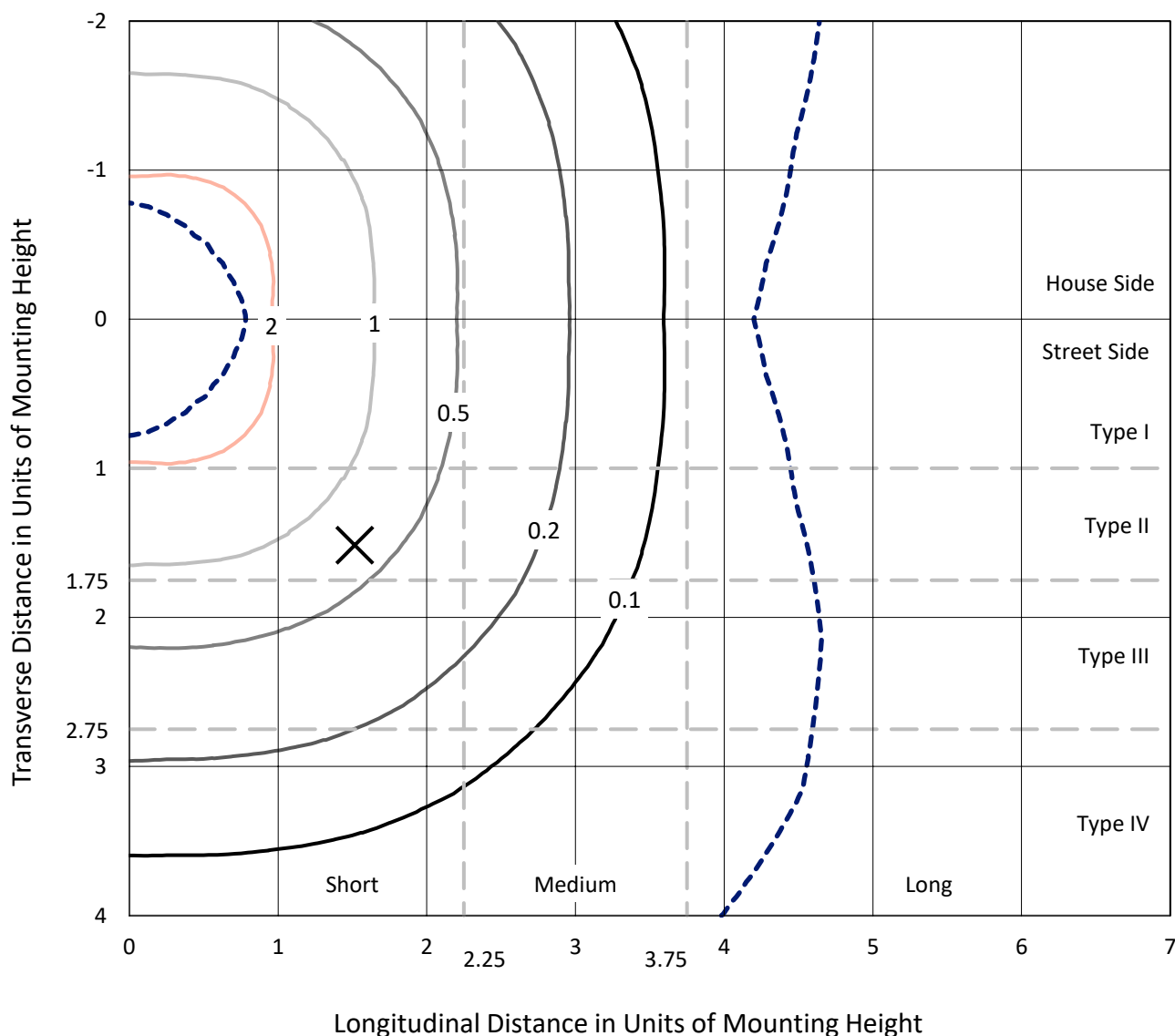
Lumens per Lamp: N/A
Luminaire Lumens: 7154 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

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

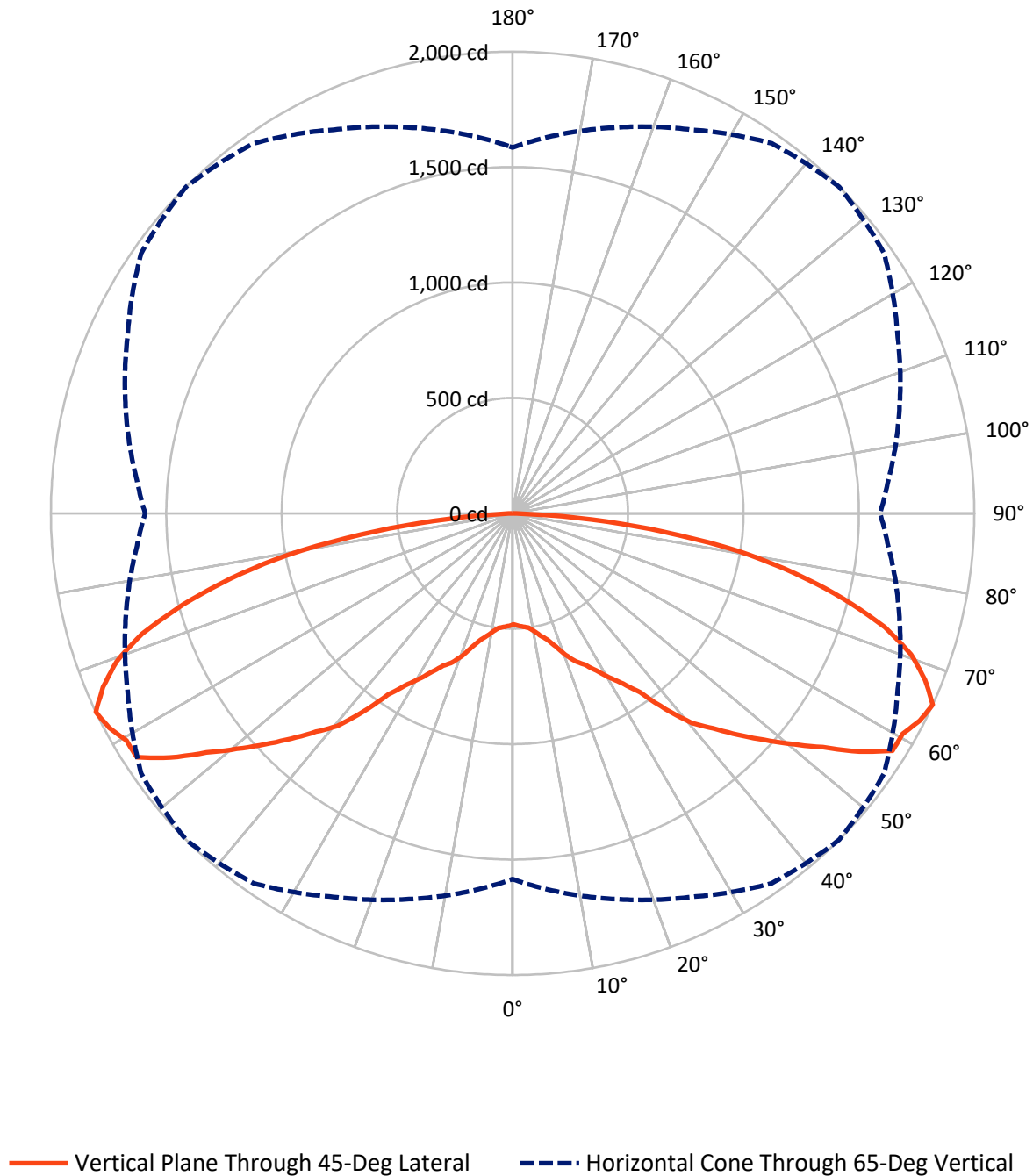
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.4 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	3577.0	0.0	3577.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3577.0	0.0	3577.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7154.0	0.0	7154.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.0	0.7
10°-20°	165.1	2.3
20°-30°	339.1	4.7
30°-40°	602.4	8.4
40°-50°	1015.5	14.2
50°-60°	1498.0	20.9
60°-70°	1758.1	24.6
70°-80°	1369.7	19.1
80°-90°	358.1	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°	7154.0	100.0
0°-180°	7154.0	100.0

Coefficient of Utilization



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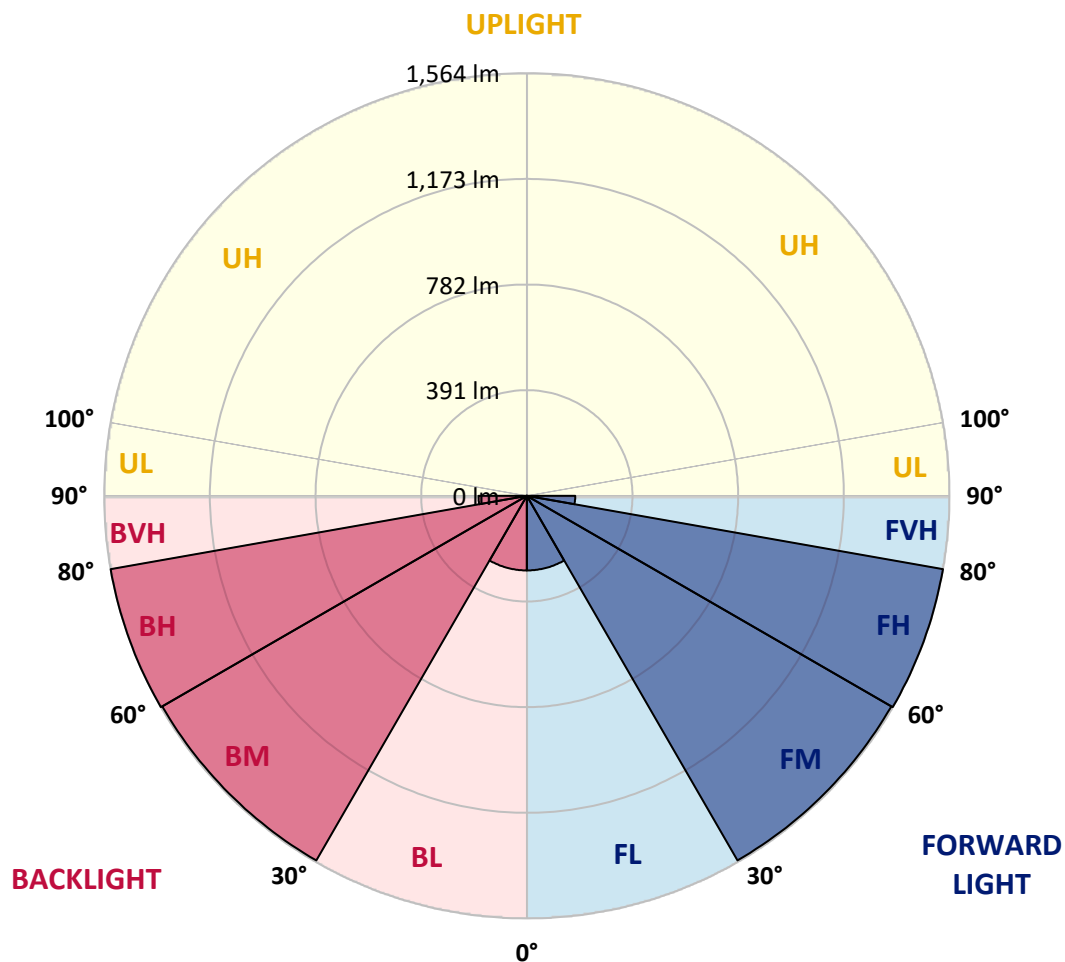
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	276.1	3.9			
FM	(30°-60°)	1558.0	21.8			
FH	(60°-80°)	1563.9	21.9			G1/1800
FVH	(80°-90°)	179.0	2.5			G2/225
BL	(0°-30°)	276.1	3.9	B1/500		
BM	(30°-60°)	1558.0	21.8	B2/2500		
BH	(60°-80°)	1563.9	21.9	B3/2500		G1/1800
BVH	(80°-90°)	179.0	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°	481.5	481.5	481.5	481.5	481.5	481.5	481.5	481.5	481.5	481.5	481.5
2.5°	489.4	489.4	489.4	488.2	488.2	488.2	488.2	489.4	489.4	489.4	489.4
5°	500.6	500.6	498.4	496.1	493.9	493.9	495.0	496.1	497.2	499.5	499.5
7.5°	507.4	507.4	506.2	504.0	500.6	500.6	501.7	504.0	505.1	505.1	504.0
10°	516.4	517.5	520.9	522.0	519.7	519.7	520.9	522.0	519.7	516.4	516.4
12.5°	537.7	538.9	543.4	546.7	546.7	544.5	545.6	547.9	542.2	536.6	537.7
15°	568.1	568.1	569.2	572.6	570.4	568.1	570.4	571.5	568.1	567.0	569.2
17.5°	608.6	608.6	601.9	607.5	608.6	607.5	609.7	604.1	600.7	605.2	607.5
20°	652.5	648.0	644.6	649.1	658.1	654.7	659.2	646.9	643.5	645.7	646.9
22.5°	680.6	684.0	686.2	688.5	700.9	696.4	700.9	687.4	685.1	680.6	677.2
25°	714.4	717.7	731.2	724.5	732.4	725.6	731.2	723.4	727.9	714.4	714.4
27.5°	752.6	759.4	767.2	763.9	774.0	770.6	774.0	762.7	763.9	758.2	756.0
30°	804.4	804.4	802.1	808.9	826.9	824.6	825.7	811.1	801.0	802.1	806.6
32.5°	856.1	849.4	852.7	873.0	884.2	879.7	882.0	875.2	852.7	848.2	851.6
35°	904.5	914.6	922.5	939.3	955.1	952.8	951.7	940.5	925.8	907.8	902.2
37.5°	979.8	991.1	1012.5	1042.8	1071.0	1076.6	1062.0	1047.3	1013.6	987.7	974.2
40°	1078.8	1080.0	1104.7	1163.2	1189.1	1193.6	1185.7	1161.0	1109.2	1080.0	1078.8
42.5°	1165.5	1157.6	1198.1	1247.6	1271.2	1273.5	1267.8	1247.6	1198.1	1156.5	1164.3
45°	1233.0	1233.0	1281.3	1320.7	1359.0	1368.0	1357.8	1315.1	1282.5	1234.1	1230.7
47.5°	1294.8	1311.7	1352.2	1400.6	1454.6	1467.0	1454.6	1404.0	1348.8	1312.8	1293.7
50°	1369.1	1389.3	1418.6	1494.0	1554.7	1571.6	1553.6	1498.5	1418.6	1388.2	1377.0
52.5°	1455.7	1472.6	1518.7	1613.2	1658.2	1683.0	1668.3	1615.5	1521.0	1474.8	1465.8
55°	1559.2	1543.5	1615.5	1706.6	1789.8	1822.4	1793.2	1708.8	1626.7	1543.5	1559.2
57.5°	1612.1	1594.1	1695.3	1781.9	1897.8	1940.6	1904.6	1788.7	1695.3	1599.7	1611.0
60°	1616.6	1624.5	1701.0	1842.7	1922.6	1940.6	1929.3	1852.8	1704.3	1631.2	1609.8
62.5°	1603.1	1651.5	1716.7	1862.9	1934.9	1978.8	1940.6	1865.2	1723.5	1659.3	1604.2
65°	1585.1	1633.5	1730.2	1833.7	1956.3	2000.2	1964.2	1839.3	1734.7	1633.5	1591.8
67.5°	1553.6	1536.7	1656.0	1794.3	1901.2	1927.1	1904.6	1796.6	1654.8	1534.5	1557.0
70°	1453.5	1438.8	1541.2	1693.1	1795.4	1831.4	1804.4	1695.3	1543.5	1442.2	1455.7
72.5°	1305.0	1309.5	1408.5	1553.6	1663.8	1686.3	1671.7	1552.5	1414.1	1315.1	1297.1
75°	1131.7	1143.0	1237.5	1369.1	1469.2	1482.7	1468.1	1374.7	1236.3	1149.7	1126.1
77.5°	930.3	947.2	1023.7	1155.3	1221.7	1252.1	1228.5	1158.7	1029.3	951.7	928.1
80°	721.1	726.7	780.7	886.5	974.2	994.5	972.0	889.8	787.5	729.0	712.1
82.5°	472.5	481.5	529.9	610.9	668.2	662.6	668.2	604.1	535.5	479.2	451.1
85°	210.4	228.4	261.0	299.2	336.4	346.5	336.4	303.7	261.0	223.9	219.4
87.5°	14.6	16.9	20.2	21.4	23.6	18.0	18.0	18.0	15.7	18.0	14.6
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)