

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: P821463

Luminaire Tested: **TT-D5-830-12VDC-MQ**

Issue Date: 2/18/2020



Test Information

Test Method: LM-79-08
Report Number: P821463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1908-473-16)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/18/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-D5-830-12VDC-MQ
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
3000K, 80 CRI LEDS AND MEDIUM DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

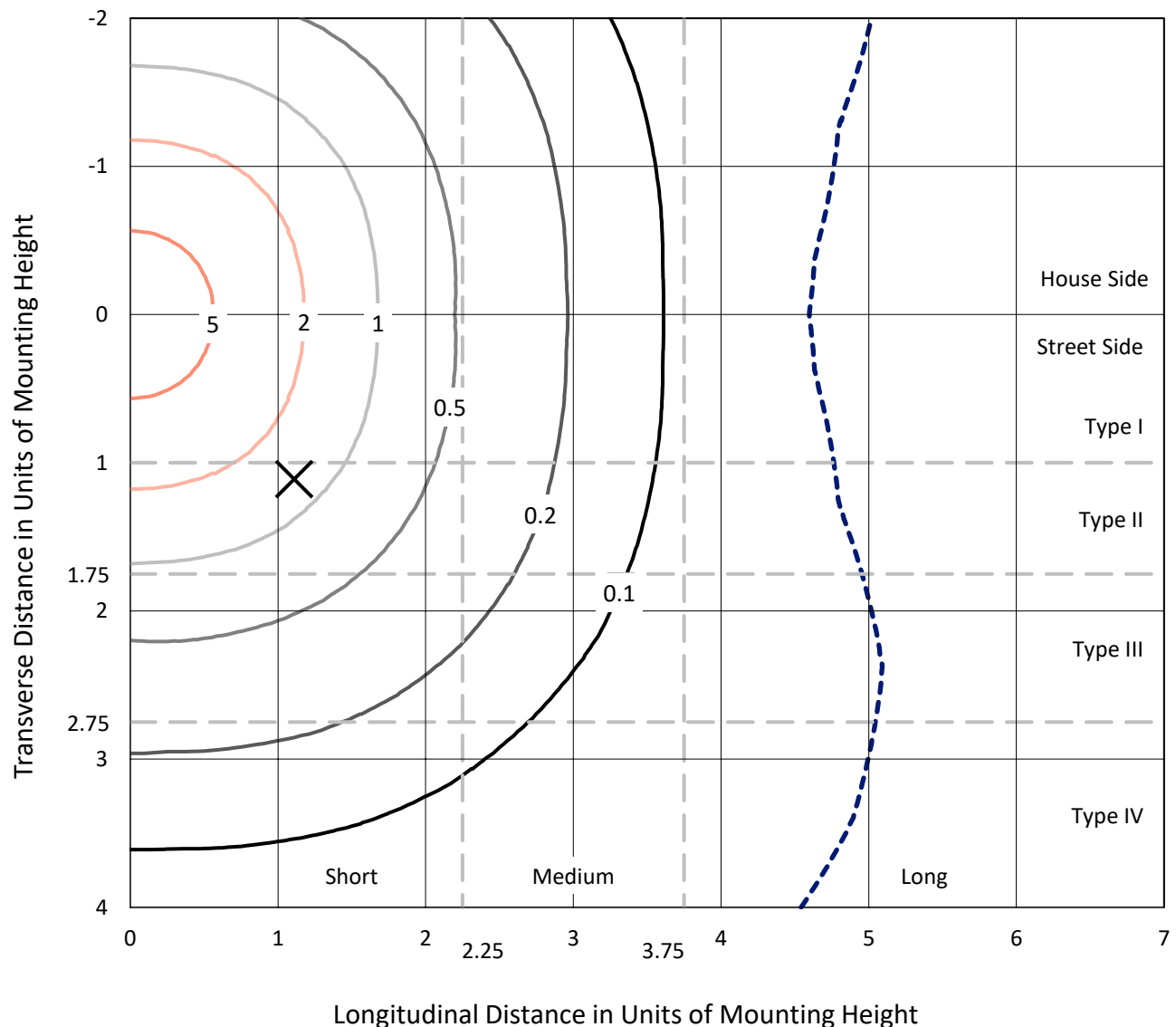
Lumens per Lamp: N/A
Luminaire Lumens: 8968 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 73
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

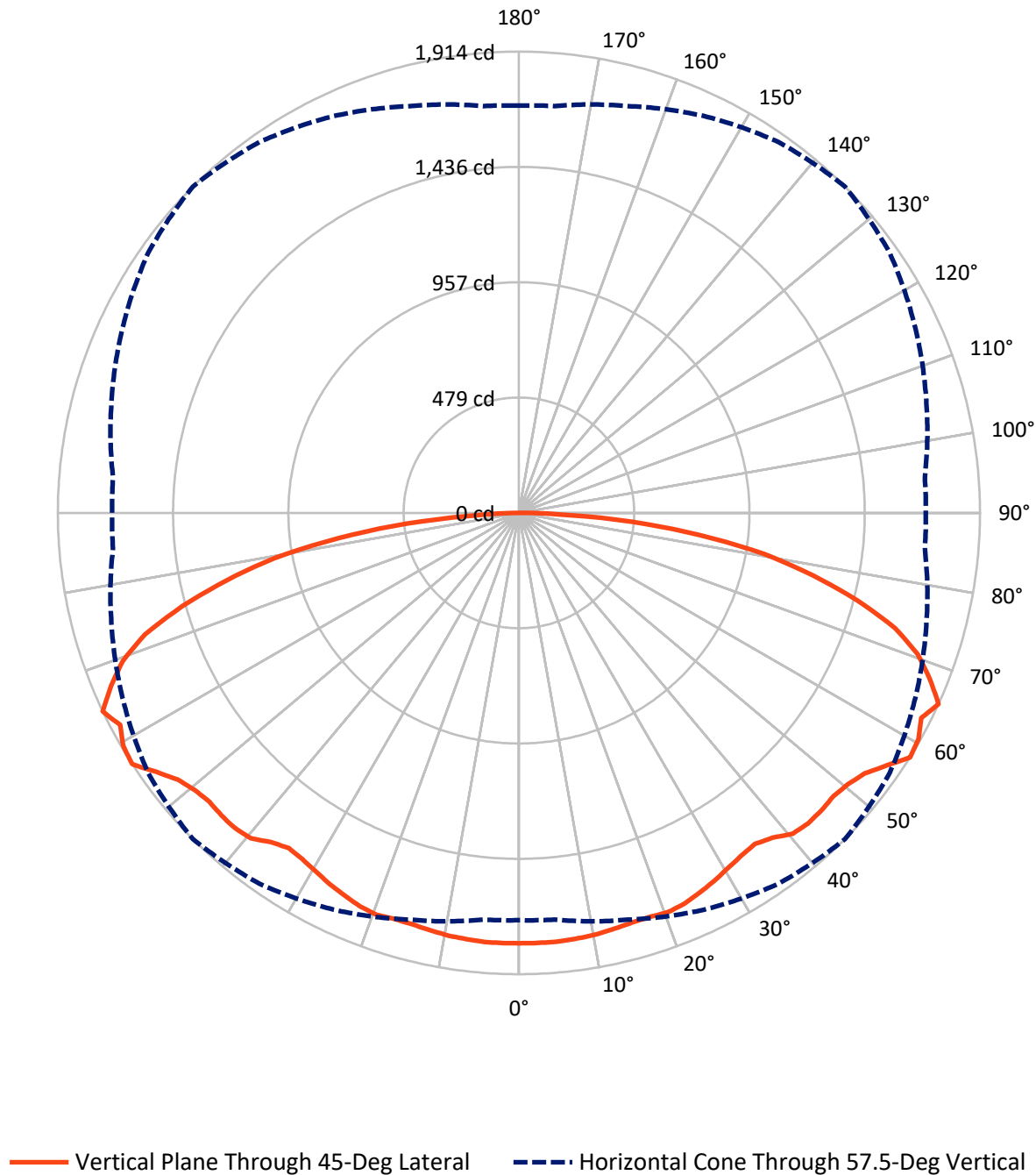
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.9 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	4484.0	0.0	4484.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4484.0	0.0	4484.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8968.0	0.0	8968.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.2	1.9
10°-20°	500.6	5.6
20°-30°	804.4	9.0
30°-40°	1062.0	11.8
40°-50°	1328.7	14.8
50°-60°	1580.3	17.6
60°-70°	1714.0	19.1
70°-80°	1364.3	15.2
80°-90°	443.5	4.9
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°	8968.0	100.0
0°-180°	8968.0	100.0



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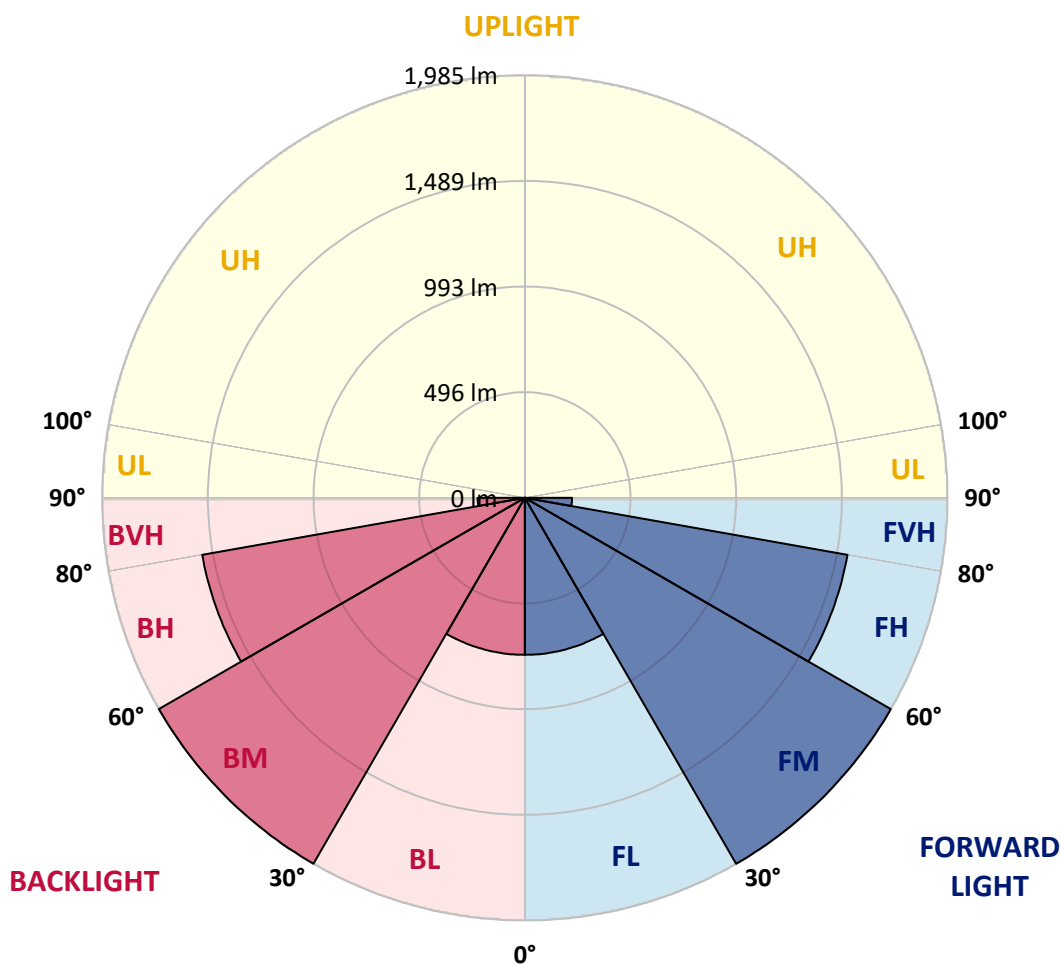
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	737.6	8.2			
FM	(30°-60°)	1985.5	22.1			
FH	(60°-80°)	1539.2	17.2			G1/1800
FVH	(80°-90°)	221.7	2.5			G2/225
BL	(0°-30°)	737.6	8.2	B2/1000		
BM	(30°-60°)	1985.5	22.1	B2/2500		
BH	(60°-80°)	1539.2	17.2	B3/2500		G1/1800
BVH	(80°-90°)	221.7	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°	1786.1	1786.1	1786.1	1786.1	1786.1	1786.1	1786.1	1786.1	1786.1	1786.1	1786.1
2.5°	1788.8	1787.5	1788.8	1787.5	1787.5	1786.1	1787.5	1787.5	1787.5	1787.5	1787.5
5°	1787.5	1786.1	1786.1	1787.5	1786.1	1786.1	1786.1	1786.1	1786.1	1786.1	1786.1
7.5°	1782.1	1782.1	1783.5	1782.1	1782.1	1782.1	1782.1	1782.1	1782.1	1783.5	1783.5
10°	1778.1	1776.8	1778.1	1778.1	1776.8	1778.1	1776.8	1778.1	1778.1	1778.1	1778.1
12.5°	1772.8	1771.5	1772.8	1772.8	1771.5	1770.1	1771.5	1771.5	1772.8	1772.8	1772.8
15°	1763.5	1763.5	1766.1	1764.8	1764.8	1763.5	1766.1	1764.8	1763.5	1764.8	1764.8
17.5°	1756.8	1756.8	1759.5	1762.1	1762.1	1762.1	1762.1	1760.8	1758.1	1759.5	1756.8
20°	1758.1	1759.5	1760.8	1764.8	1767.5	1768.8	1768.8	1764.8	1760.8	1762.1	1760.8
22.5°	1754.1	1752.8	1754.1	1756.8	1760.8	1760.8	1760.8	1755.5	1754.1	1752.8	1752.8
25°	1738.1	1738.1	1740.8	1743.5	1746.1	1744.8	1746.1	1743.5	1740.8	1738.1	1738.1
27.5°	1719.5	1719.5	1723.5	1726.1	1728.8	1728.8	1727.5	1724.8	1723.5	1720.8	1719.5
30°	1700.8	1700.8	1704.8	1707.4	1711.4	1710.1	1710.1	1706.1	1702.1	1699.4	1699.4
32.5°	1680.8	1679.4	1683.4	1690.1	1695.4	1695.4	1695.4	1687.4	1682.1	1679.4	1678.1
35°	1663.4	1663.4	1668.8	1680.8	1687.4	1687.4	1684.8	1679.4	1667.4	1663.4	1663.4
37.5°	1658.1	1662.1	1676.8	1694.1	1707.4	1710.1	1706.1	1691.4	1675.4	1663.4	1659.4
40°	1675.4	1679.4	1698.1	1726.1	1746.1	1750.1	1746.1	1724.8	1696.8	1678.1	1676.8
42.5°	1678.1	1680.8	1703.4	1735.5	1754.1	1760.8	1754.1	1732.8	1702.1	1679.4	1678.1
45°	1668.8	1670.1	1696.8	1730.1	1752.8	1760.8	1752.8	1727.5	1695.4	1670.1	1668.8
47.5°	1656.8	1659.4	1688.8	1723.5	1751.5	1756.8	1750.1	1722.1	1686.1	1660.8	1656.8
50°	1647.4	1655.4	1682.1	1720.8	1754.1	1770.1	1754.1	1716.8	1680.8	1652.8	1647.4
52.5°	1652.8	1655.4	1690.1	1744.8	1790.2	1796.8	1788.8	1744.8	1687.4	1655.4	1651.4
55°	1668.8	1680.8	1718.1	1796.8	1838.2	1850.2	1832.8	1794.2	1719.5	1680.8	1668.8
57.5°	1690.1	1694.1	1747.5	1816.8	1878.2	1914.2	1879.5	1815.5	1751.5	1691.4	1688.8
60°	1672.8	1660.8	1727.5	1808.8	1891.5	1906.2	1886.2	1810.2	1724.8	1659.4	1671.4
62.5°	1626.1	1634.1	1688.8	1800.8	1858.2	1874.2	1852.8	1800.8	1686.1	1640.7	1622.1
65°	1588.7	1636.7	1696.8	1776.8	1868.9	1914.2	1870.2	1774.1	1699.4	1628.7	1584.7
67.5°	1536.7	1546.0	1635.4	1734.1	1816.8	1839.5	1815.5	1735.5	1627.4	1539.4	1546.0
70°	1448.7	1435.3	1526.0	1640.7	1719.5	1755.5	1722.1	1635.4	1522.0	1432.7	1444.7
72.5°	1303.3	1311.3	1395.3	1516.7	1598.1	1632.7	1599.4	1507.4	1392.6	1319.3	1311.3
75°	1151.2	1160.5	1241.9	1352.6	1435.3	1450.0	1440.7	1345.9	1244.6	1159.2	1151.2
77.5°	977.8	987.1	1053.8	1175.2	1224.6	1247.2	1227.2	1181.9	1051.1	985.8	975.1
80°	785.7	783.0	841.7	945.8	1007.1	1032.5	1007.1	948.4	839.0	788.4	771.0
82.5°	561.6	564.3	618.9	691.0	749.7	757.7	745.7	697.7	613.6	570.9	546.9
85°	312.1	324.1	364.2	417.5	456.2	469.5	449.5	404.2	362.8	329.5	318.8
87.5°	74.7	81.4	94.7	120.1	134.7	148.1	134.7	125.4	89.4	81.4	74.7
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)