

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: P821235

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

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P821235
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1908-473-17)
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-CQ
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
3500K, 70 CRI LEDS AND CONCENTRATED DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

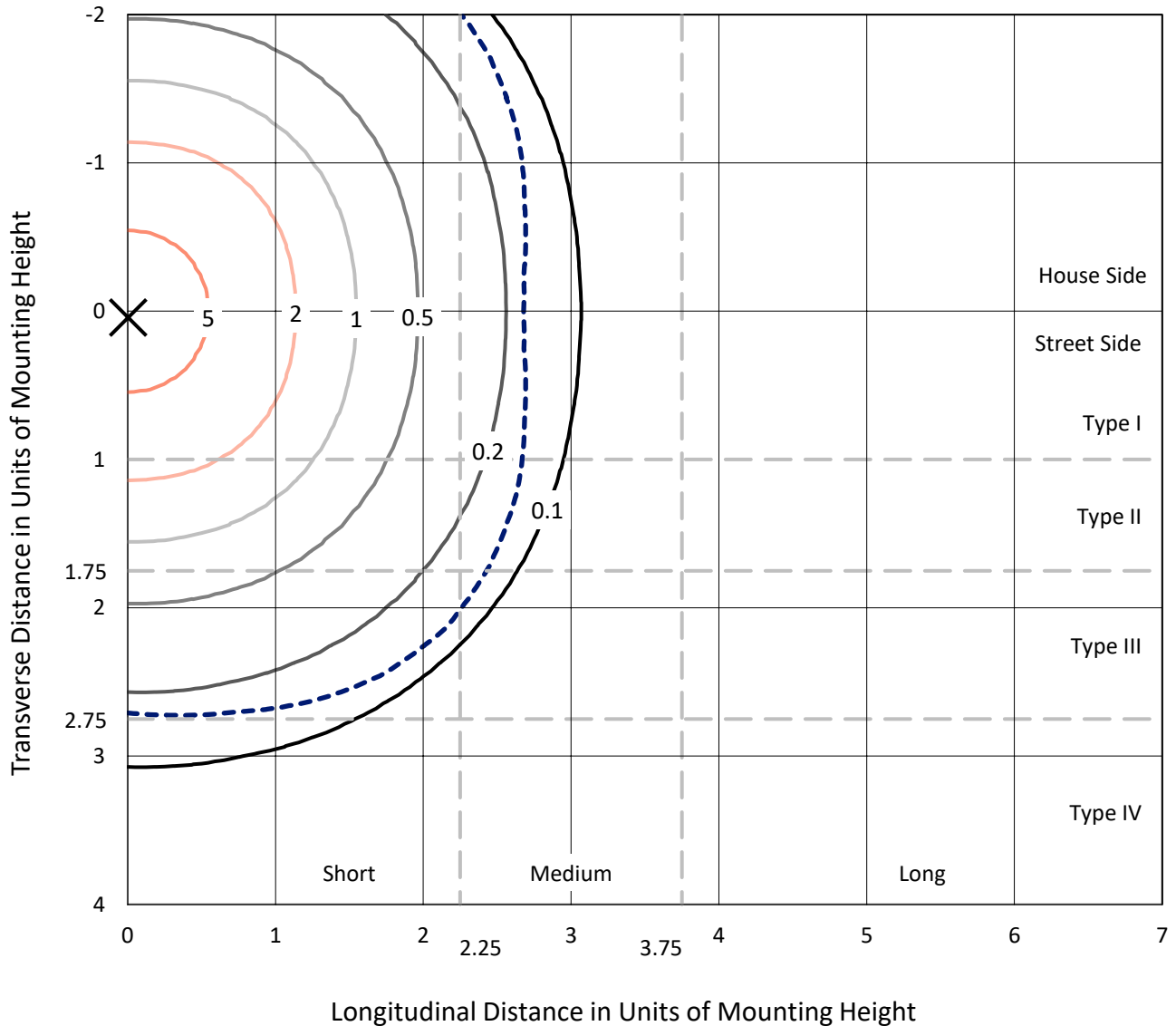
Lumens per Lamp: N/A
Luminaire Lumens: 7070 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): 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

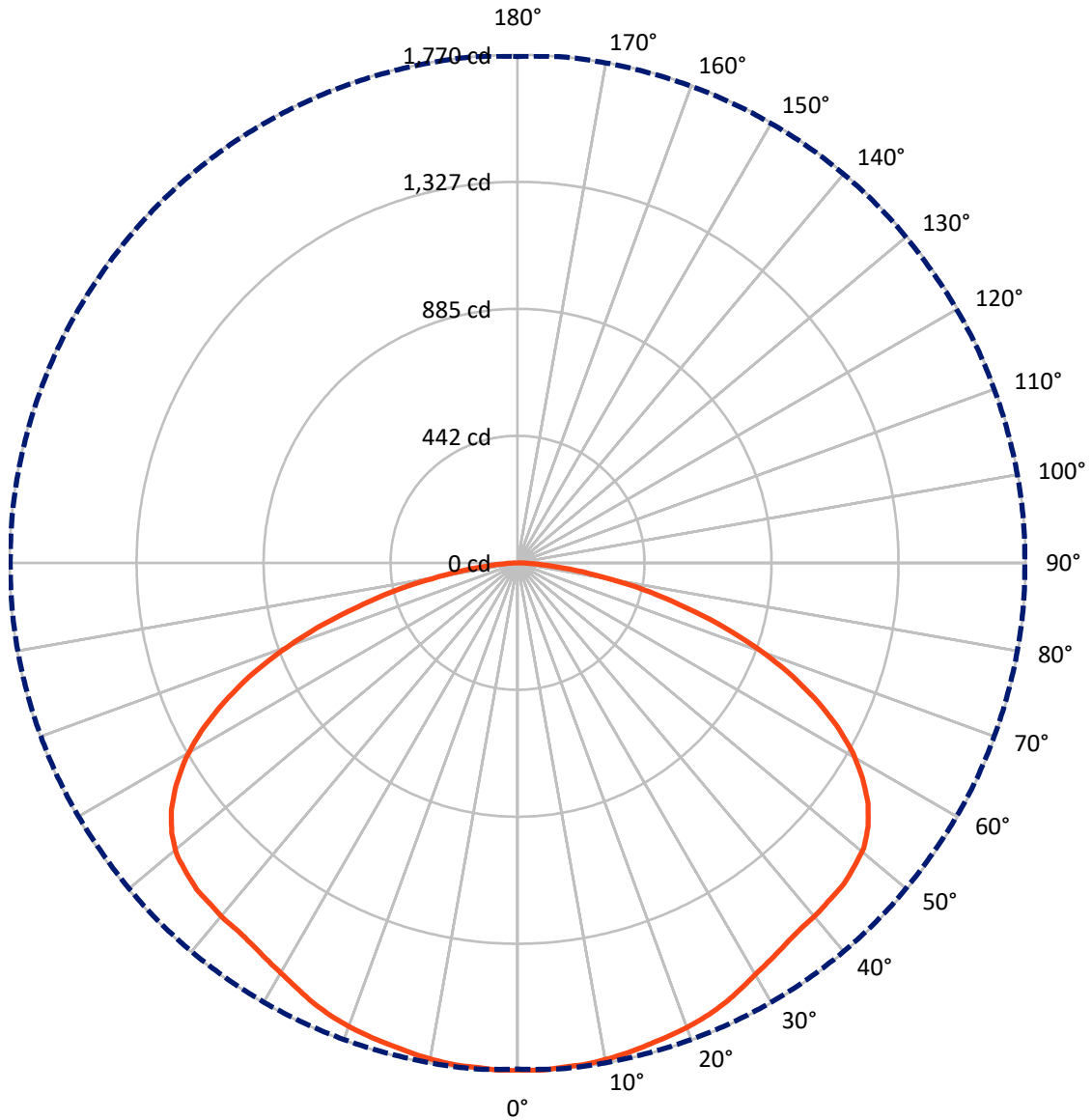
✕ Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 5-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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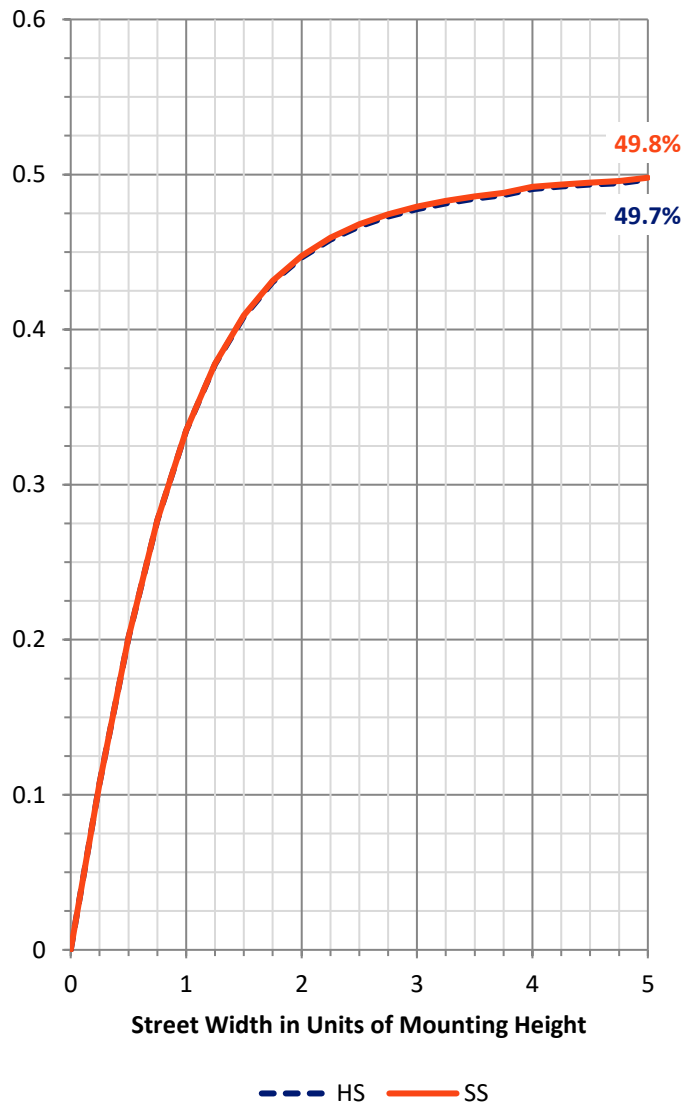
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3535.0	0.0	3535.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3535.0	0.0	3535.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7070.0	0.0	7070.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.2	2.4
10°-20°	492.7	7.0
20°-30°	783.5	11.1
30°-40°	1030.6	14.6
40°-50°	1261.4	17.8
50°-60°	1366.3	19.3
60°-70°	1175.4	16.6
70°-80°	660.8	9.3
80°-90°	131.0	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°	7070.0	100.0
0°-180°	7070.0	100.0

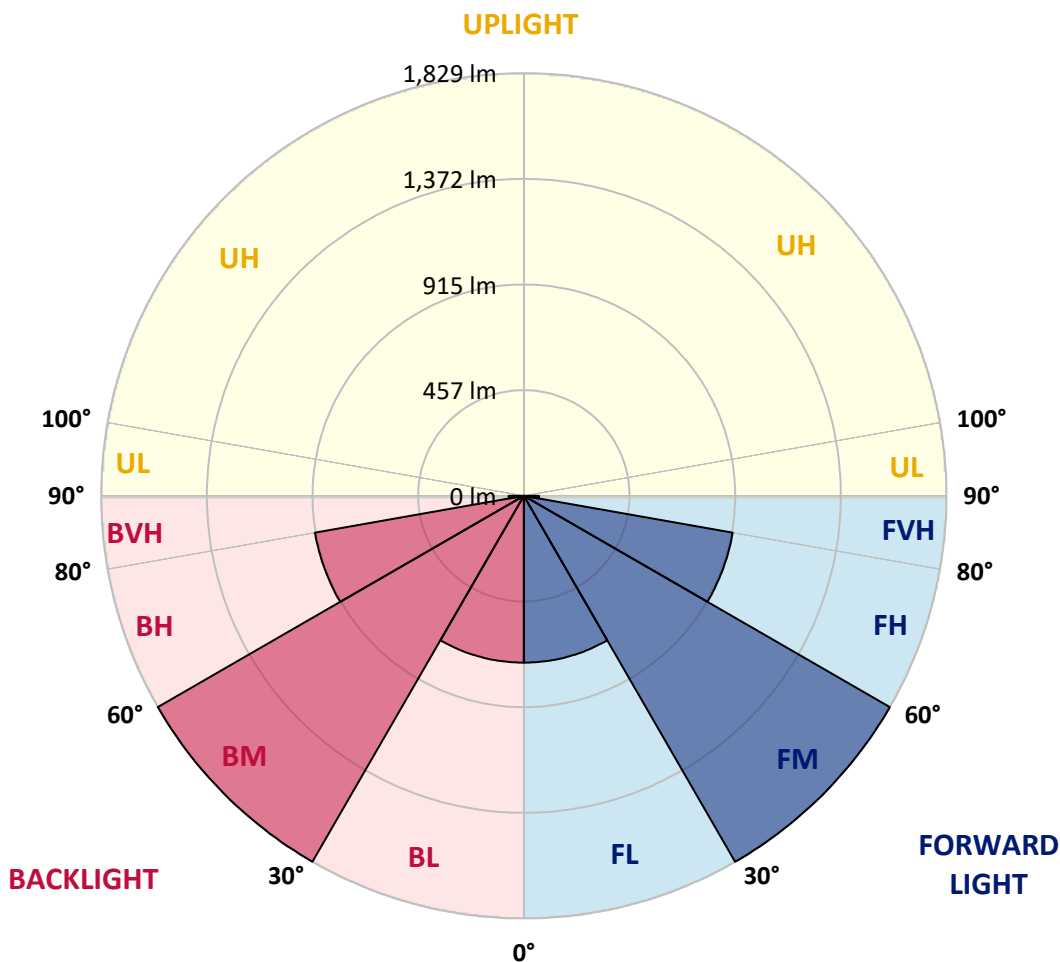


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	722.2	10.2			
FM (30°-60°)	1829.2	25.9			
FH (60°-80°)	918.1	13.0			G1/1800
FVH (80°-90°)	65.5	0.9			G1/100
BL (0°-30°)	722.2	10.2	B2/1000		
BM (30°-60°)	1829.2	25.9	B2/2500		
BH (60°-80°)	918.1	13.0	B2/1000		G1/1800
BVH (80°-90°)	65.5	0.9			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°	1768.7	1768.7	1768.7	1768.7	1768.7	1768.7	1768.7	1768.7	1768.7	1768.7	1768.7
2.5°	1764.2	1769.8	1767.6	1767.6	1767.6	1767.6	1765.3	1767.6	1767.6	1768.7	1767.6
5°	1765.3	1764.2	1764.2	1765.3	1765.3	1766.5	1764.2	1765.3	1766.5	1766.5	1767.6
7.5°	1762.0	1763.1	1760.8	1763.1	1760.8	1762.0	1762.0	1763.1	1762.0	1763.1	1765.3
10°	1755.2	1756.3	1755.2	1755.2	1755.2	1757.5	1753.0	1756.3	1755.2	1756.3	1755.2
12.5°	1742.8	1748.5	1746.2	1748.5	1748.5	1748.5	1745.1	1747.3	1748.5	1748.5	1748.5
15°	1737.2	1738.3	1735.0	1739.5	1740.6	1741.7	1737.2	1739.5	1739.5	1740.6	1741.7
17.5°	1724.8	1730.5	1729.3	1732.7	1731.6	1735.0	1733.8	1732.7	1731.6	1733.8	1731.6
20°	1715.8	1721.5	1720.3	1723.7	1724.8	1728.2	1724.8	1724.8	1721.5	1722.6	1726.0
22.5°	1706.8	1709.1	1709.1	1712.5	1712.5	1715.8	1712.5	1711.3	1711.3	1710.2	1713.6
25°	1692.2	1693.3	1692.2	1695.6	1697.8	1700.1	1698.9	1696.7	1695.6	1695.6	1694.4
27.5°	1668.6	1673.1	1675.3	1679.8	1680.9	1684.3	1679.8	1679.8	1677.6	1675.3	1676.4
30°	1650.6	1652.8	1652.8	1662.9	1662.9	1668.6	1662.9	1661.8	1660.7	1659.6	1657.3
32.5°	1633.7	1637.1	1640.4	1648.3	1653.9	1656.2	1652.8	1650.6	1644.9	1641.6	1640.4
35°	1620.2	1621.3	1628.1	1639.3	1646.1	1651.7	1647.2	1641.6	1633.7	1628.1	1632.6
37.5°	1610.1	1611.2	1621.3	1635.9	1648.3	1652.8	1646.1	1637.1	1624.7	1617.9	1615.7
40°	1601.1	1607.8	1619.1	1639.3	1652.8	1659.6	1653.9	1641.6	1623.6	1610.1	1608.9
42.5°	1596.6	1599.9	1616.8	1640.4	1659.6	1668.6	1660.7	1643.8	1621.3	1605.6	1604.4
45°	1585.3	1595.4	1611.2	1641.6	1662.9	1674.2	1662.9	1641.6	1614.6	1596.6	1593.2
47.5°	1576.3	1579.7	1604.4	1639.3	1665.2	1674.2	1662.9	1635.9	1602.2	1578.6	1576.3
50°	1554.9	1562.8	1587.6	1624.7	1655.1	1664.1	1650.6	1614.6	1576.3	1550.4	1545.9
52.5°	1522.3	1529.1	1558.3	1604.4	1633.7	1643.8	1623.6	1585.3	1540.3	1508.8	1508.8
55°	1471.7	1481.8	1512.2	1559.4	1596.6	1605.6	1581.9	1541.4	1490.8	1459.3	1458.2
57.5°	1410.9	1417.7	1450.3	1502.1	1538.1	1551.6	1527.9	1482.9	1432.3	1395.2	1391.8
60°	1332.2	1341.2	1376.0	1425.5	1462.7	1473.9	1453.7	1408.7	1356.9	1317.5	1317.5
62.5°	1237.6	1247.8	1282.7	1333.3	1371.5	1388.4	1360.3	1317.5	1263.5	1225.3	1221.9
65°	1127.4	1136.4	1167.9	1220.8	1260.1	1272.5	1251.1	1206.1	1154.4	1118.4	1115.0
67.5°	1003.6	1016.0	1047.5	1092.5	1126.3	1142.0	1128.5	1088.0	1034.0	996.9	993.5
70°	869.7	878.7	903.5	945.1	983.4	994.6	974.4	947.4	896.7	863.0	858.5
72.5°	726.8	734.7	755.0	794.3	821.3	836.0	824.7	789.8	749.3	721.2	725.7
75°	582.8	581.7	604.2	632.3	657.1	667.2	659.3	636.8	599.7	576.1	574.9
77.5°	438.8	450.1	457.9	481.6	501.8	509.7	498.4	480.4	452.3	433.2	436.6
80°	308.3	301.5	316.2	330.8	344.3	352.2	345.4	335.3	316.2	301.5	299.3
82.5°	189.0	183.4	190.1	203.6	212.6	214.9	216.0	203.6	195.8	184.5	186.8
85°	83.3	84.4	90.0	99.0	100.1	101.3	101.3	99.0	90.0	88.9	86.6
87.5°	20.3	20.3	21.4	24.8	24.8	25.9	25.9	22.5	21.4	19.1	20.3
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)