

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: P821241

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

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P821241
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1908-473-16)
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-MQ
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
3500K, 70 CRI LEDS AND MEDIUM DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

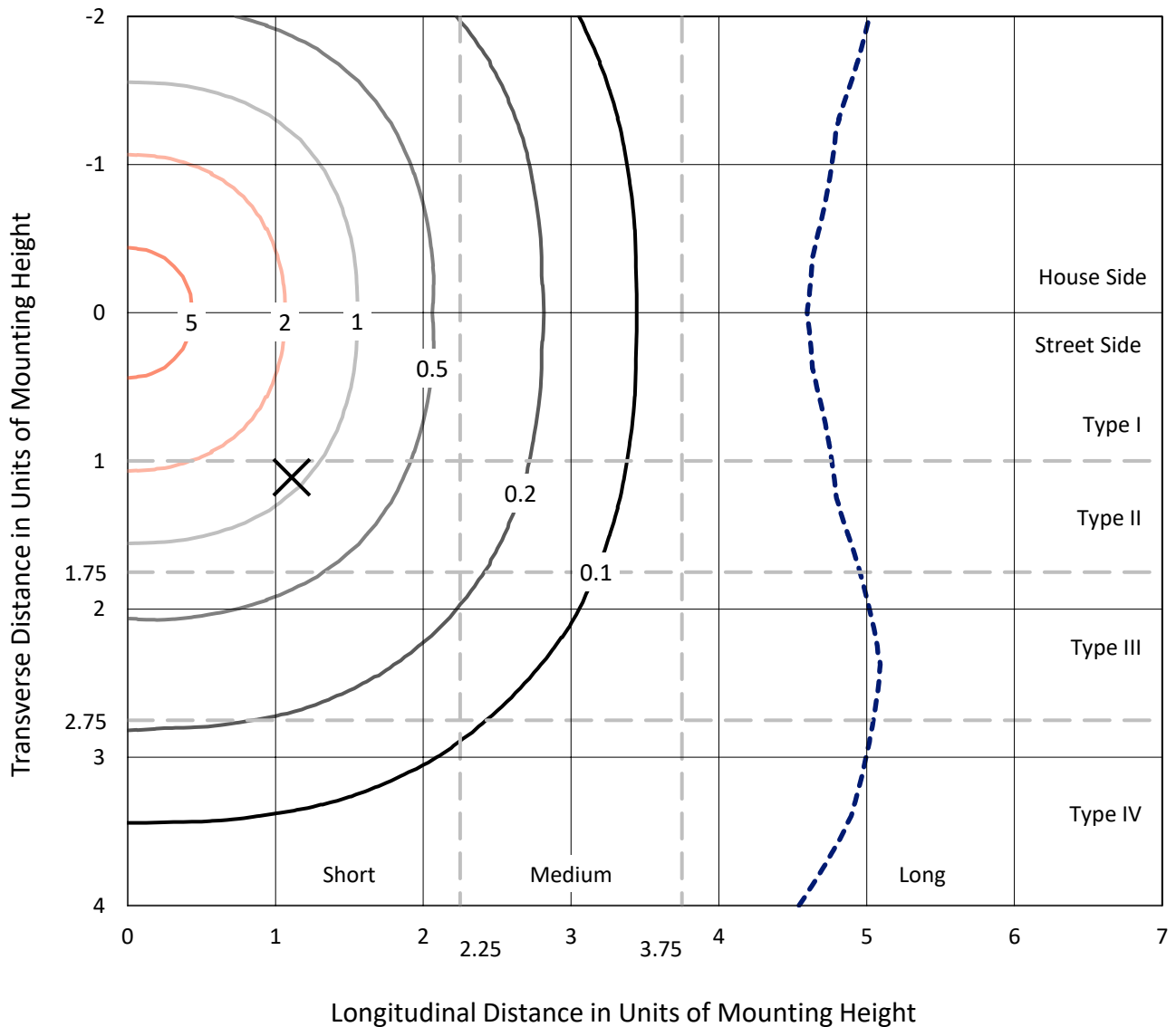
Lumens per Lamp: N/A
Luminaire Lumens: 7564 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 57
Input Voltage (V): NR
Input Current (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

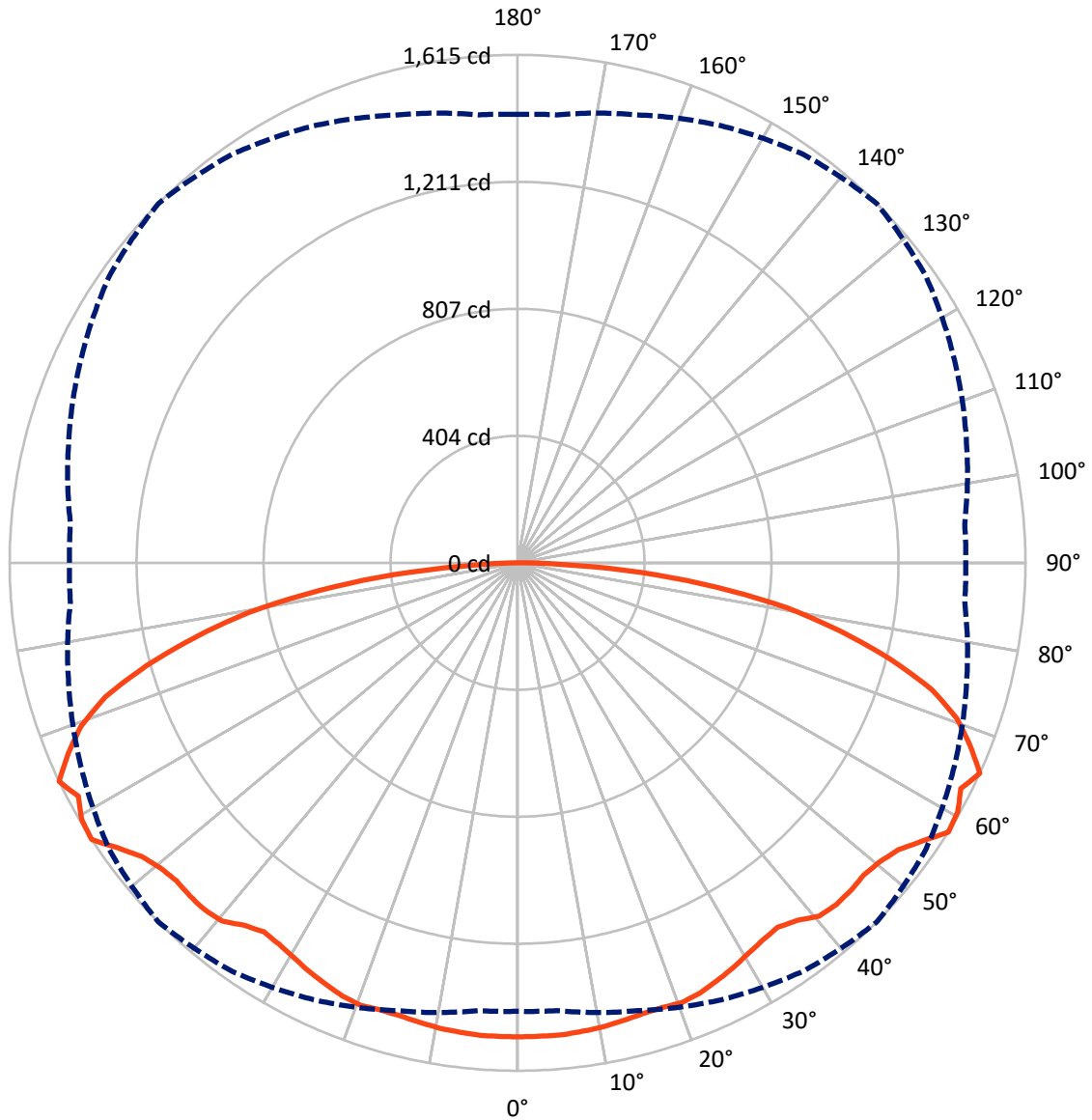
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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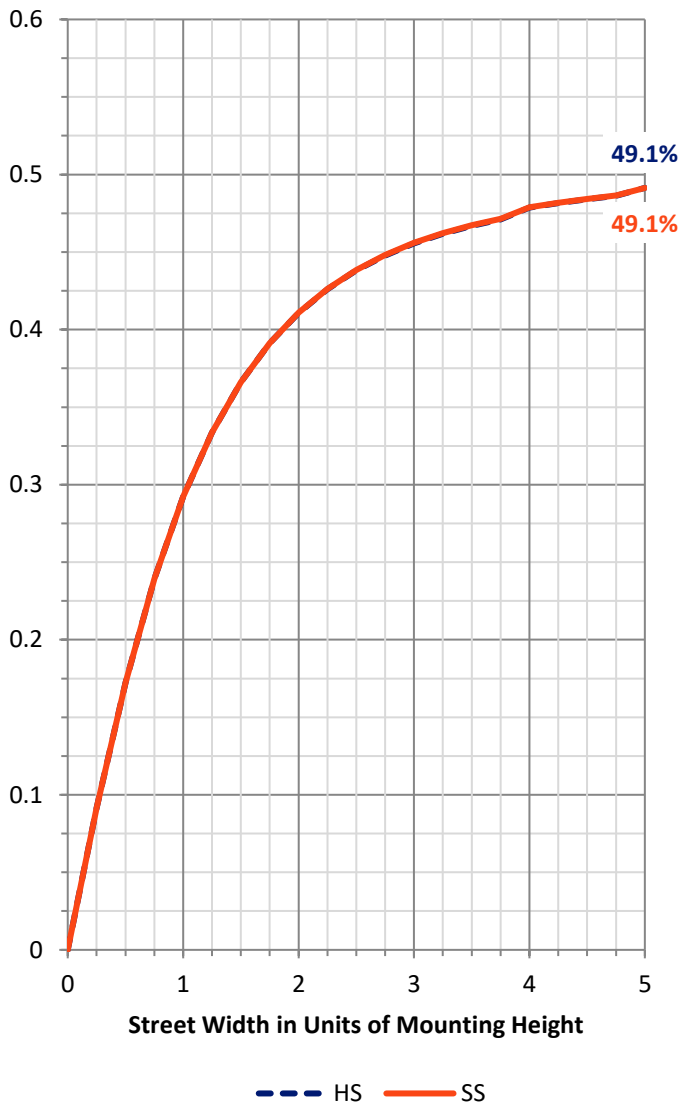
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3782.0	0.0	3782.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3782.0	0.0	3782.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7564.0	0.0	7564.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.6	1.9
10°-20°	422.2	5.6
20°-30°	678.5	9.0
30°-40°	895.7	11.8
40°-50°	1120.6	14.8
50°-60°	1332.9	17.6
60°-70°	1445.7	19.1
70°-80°	1150.7	15.2
80°-90°	374.0	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°	7564.0	100.0
0°-180°	7564.0	100.0

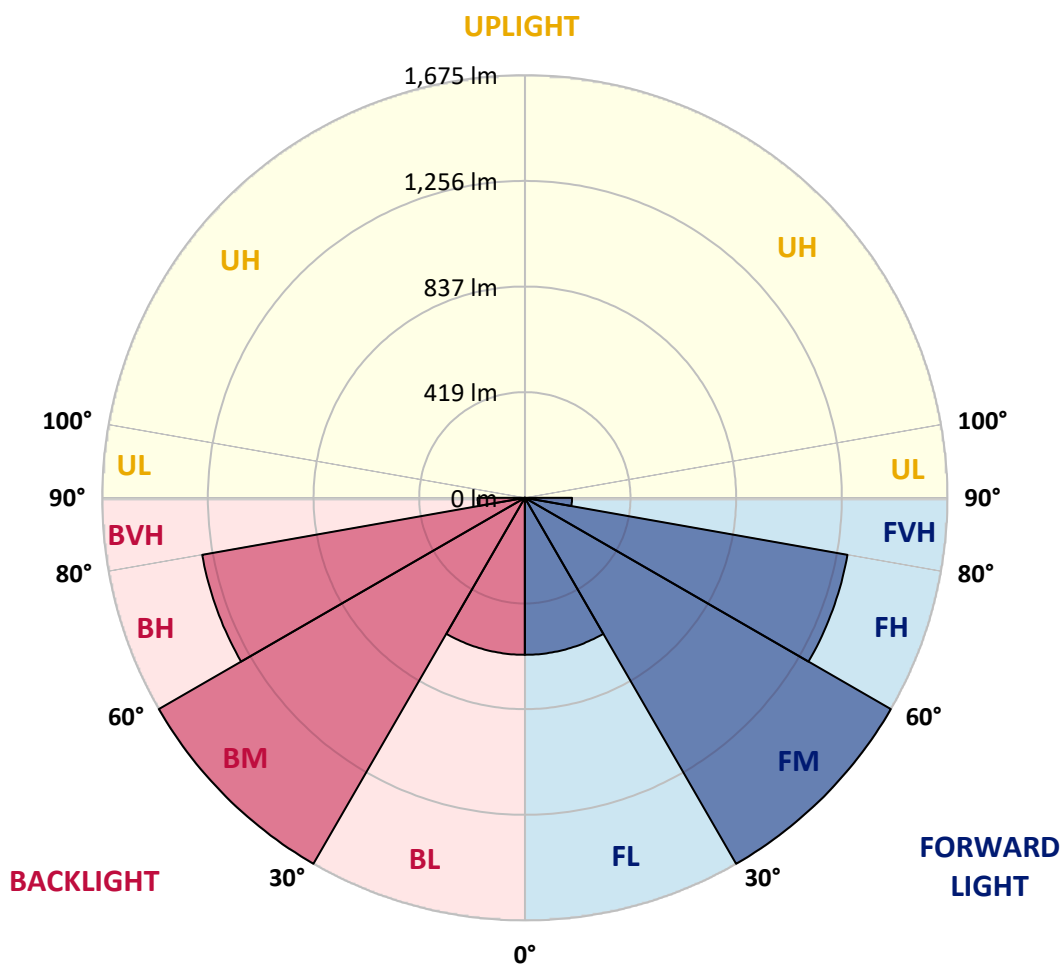


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	622.1	8.2			
FM (30°-60°)	1674.6	22.1			
FH (60°-80°)	1298.2	17.2			G1/1800
FVH (80°-90°)	187.0	2.5			G2/225
BL (0°-30°)	622.1	8.2	B2/1000		
BM (30°-60°)	1674.6	22.1	B2/2500		
BH (60°-80°)	1298.2	17.2	B3/2500		G1/1800
BVH (80°-90°)	187.0	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°	1506.5	1506.5	1506.5	1506.5	1506.5	1506.5	1506.5	1506.5	1506.5	1506.5	1506.5
2.5°	1508.8	1507.6	1508.8	1507.6	1507.6	1506.5	1507.6	1507.6	1507.6	1507.6	1507.6
5°	1507.6	1506.5	1506.5	1507.6	1506.5	1506.5	1506.5	1506.5	1506.5	1506.5	1506.5
7.5°	1503.1	1503.1	1504.3	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1504.3	1504.3
10°	1499.8	1498.6	1499.8	1499.8	1498.6	1498.6	1498.6	1499.8	1499.8	1499.8	1499.8
12.5°	1495.3	1494.1	1495.3	1495.3	1494.1	1493.0	1494.1	1494.1	1495.3	1495.3	1495.3
15°	1487.4	1487.4	1489.6	1488.5	1488.5	1487.4	1489.6	1488.5	1487.4	1488.5	1488.5
17.5°	1481.8	1481.8	1484.0	1486.3	1486.3	1486.3	1486.3	1485.1	1482.9	1484.0	1481.8
20°	1482.9	1484.0	1485.1	1488.5	1490.8	1491.9	1491.9	1488.5	1485.1	1486.3	1485.1
22.5°	1479.5	1478.4	1479.5	1481.8	1485.1	1485.1	1485.1	1480.6	1479.5	1478.4	1478.4
25°	1466.0	1466.0	1468.3	1470.5	1472.8	1471.6	1472.8	1470.5	1468.3	1466.0	1466.0
27.5°	1450.3	1450.3	1453.6	1455.9	1458.1	1458.1	1457.0	1454.8	1453.6	1451.4	1450.3
30°	1434.5	1434.5	1437.9	1440.1	1443.5	1442.4	1442.4	1439.0	1435.6	1433.4	1433.4
32.5°	1417.6	1416.5	1419.9	1425.5	1430.0	1430.0	1430.0	1423.3	1418.8	1416.5	1415.4
35°	1403.0	1403.0	1407.5	1417.6	1423.3	1423.3	1421.0	1416.5	1406.4	1403.0	1403.0
37.5°	1398.5	1401.9	1414.3	1428.9	1440.1	1442.4	1439.0	1426.6	1413.1	1403.0	1399.6
40°	1413.1	1416.5	1432.3	1455.9	1472.8	1476.1	1472.8	1454.8	1431.1	1415.4	1414.3
42.5°	1415.4	1417.6	1436.8	1463.8	1479.5	1485.1	1479.5	1461.5	1435.6	1416.5	1415.4
45°	1407.5	1408.6	1431.1	1459.3	1478.4	1485.1	1478.4	1457.0	1430.0	1408.6	1407.5
47.5°	1397.4	1399.6	1424.4	1453.6	1477.3	1481.8	1476.1	1452.5	1422.1	1400.8	1397.4
50°	1389.5	1396.3	1418.8	1451.4	1479.5	1493.0	1479.5	1448.0	1417.6	1394.0	1389.5
52.5°	1394.0	1396.3	1425.5	1471.6	1509.9	1515.5	1508.8	1471.6	1423.3	1396.3	1392.9
55°	1407.5	1417.6	1449.1	1515.5	1550.4	1560.5	1545.9	1513.3	1450.3	1417.6	1407.5
57.5°	1425.5	1428.9	1473.9	1532.4	1584.1	1614.5	1585.3	1531.3	1477.3	1426.6	1424.4
60°	1410.9	1400.8	1457.0	1525.6	1595.4	1607.8	1590.9	1526.8	1454.8	1399.6	1409.8
62.5°	1371.5	1378.3	1424.4	1518.9	1567.3	1580.8	1562.8	1518.9	1422.1	1383.9	1368.1
65°	1340.0	1380.5	1431.1	1498.6	1576.3	1614.5	1577.4	1496.4	1433.4	1373.8	1336.6
67.5°	1296.1	1304.0	1379.4	1462.6	1532.4	1551.5	1531.3	1463.8	1372.6	1298.4	1304.0
70°	1221.9	1210.6	1287.1	1383.9	1450.3	1480.6	1452.5	1379.4	1283.7	1208.4	1218.5
72.5°	1099.2	1106.0	1176.9	1279.2	1347.9	1377.1	1349.0	1271.4	1174.6	1112.7	1106.0
75°	971.0	978.8	1047.5	1140.9	1210.6	1223.0	1215.1	1135.2	1049.7	977.7	971.0
77.5°	824.7	832.6	888.8	991.2	1032.8	1052.0	1035.1	996.8	886.6	831.5	822.5
80°	662.7	660.4	709.9	797.7	849.5	870.8	849.5	799.9	707.7	664.9	650.3
82.5°	473.7	475.9	522.0	582.8	632.3	639.1	628.9	588.4	517.5	481.5	461.3
85°	263.3	273.4	307.2	352.2	384.8	396.0	379.2	340.9	306.0	277.9	268.9
87.5°	63.0	68.6	79.9	101.3	113.6	124.9	113.6	105.8	75.4	68.6	63.0
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)