

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: P821151

Luminaire Tested: **TT-D4-830-24VDC-RW-PM**

Issue Date: 10/15/2020

Test Information

Test Method: LM-79-08
Report Number: P821151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-981-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-D4-830-24VDC-RW-PM
Description: TOPTIER LED SITE LUMINAIRE
3000K, 80 CRI LEDS AND RECTANGULAR DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

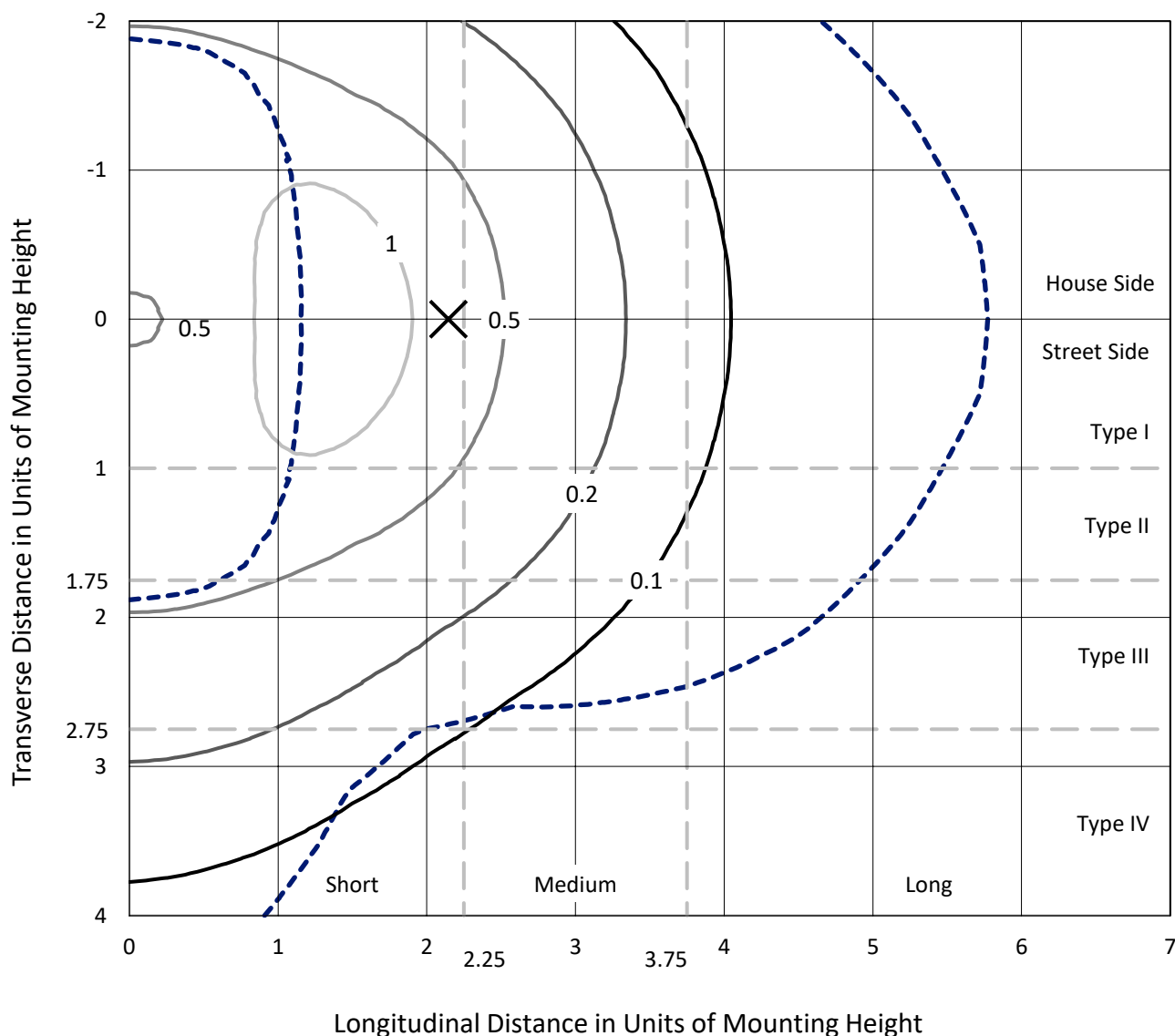
Lumens per Lamp: N/A
Luminaire Lumens: 5387 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

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

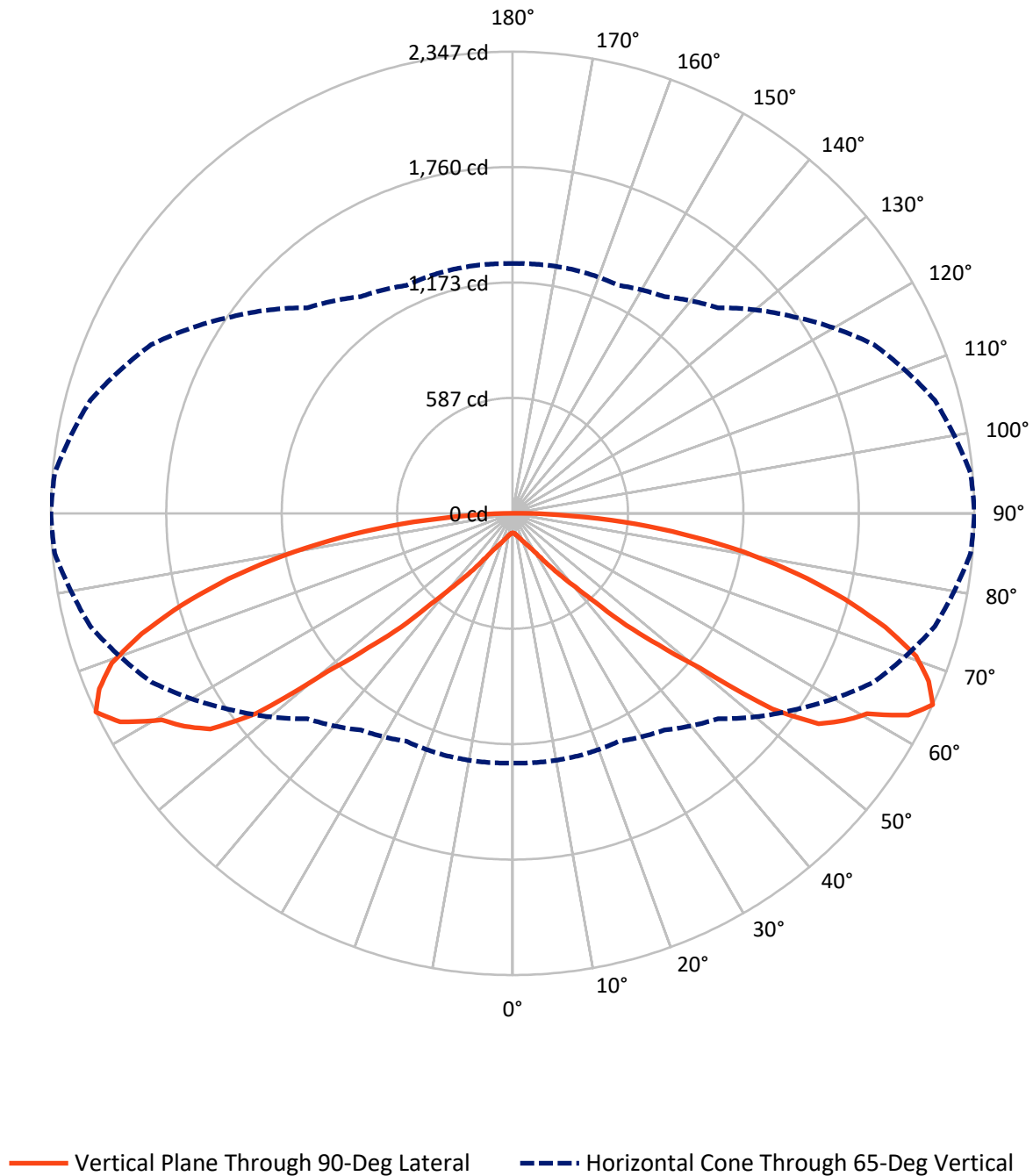
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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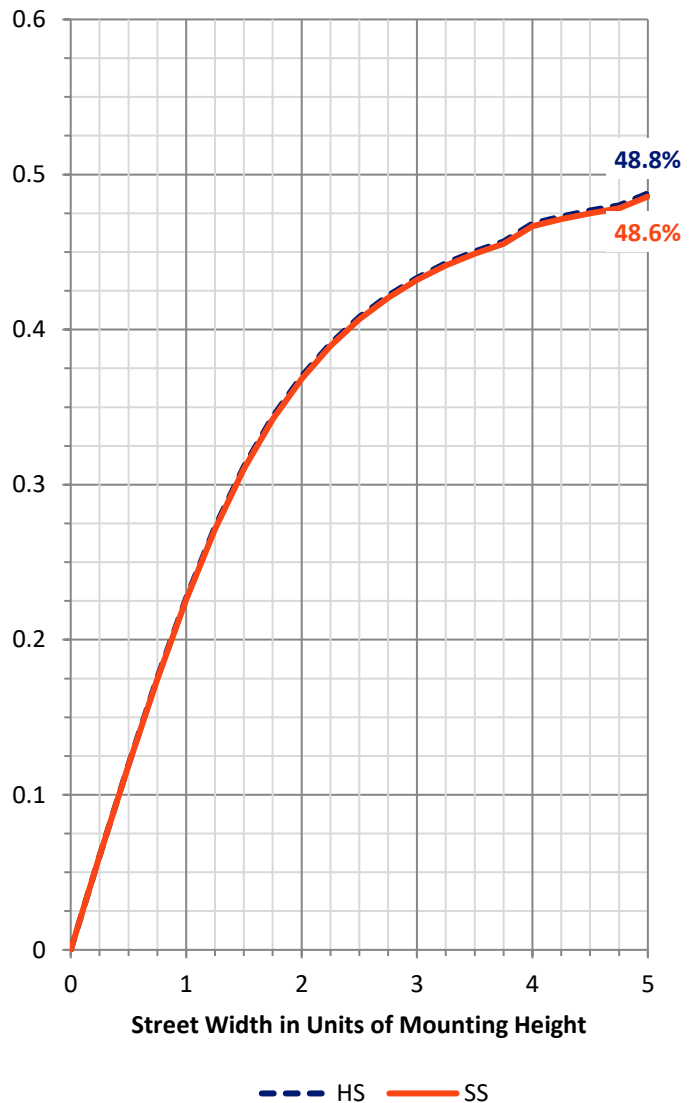
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2693.5	0.0	2693.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2693.5	0.0	2693.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5387.0	0.0	5387.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.3	0.2
10°-20°	38.4	0.7
20°-30°	88.8	1.6
30°-40°	200.7	3.7
40°-50°	488.9	9.1
50°-60°	1099.4	20.4
60°-70°	1606.8	29.8
70°-80°	1400.1	26.0
80°-90°	453.5	8.4
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°	5387.0	100.0
0°-180°	5387.0	100.0



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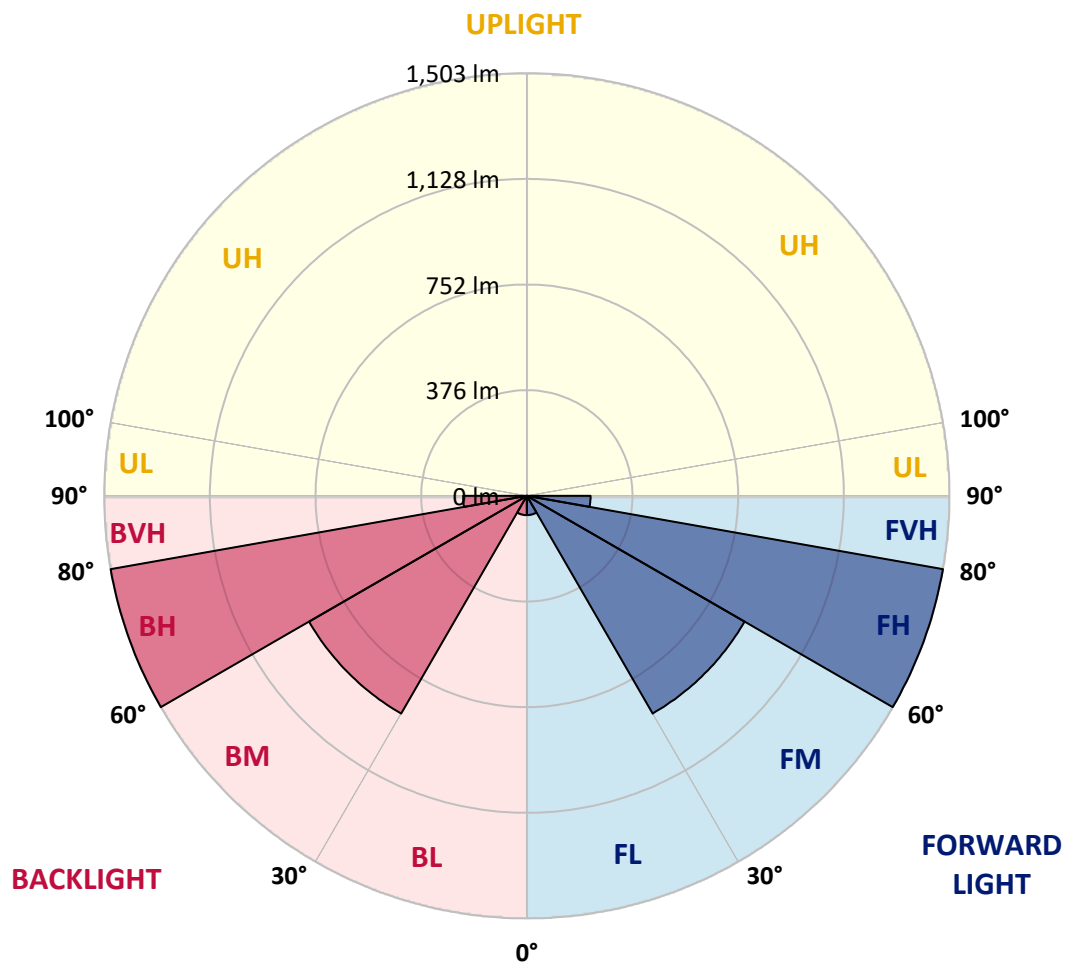
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	68.7	1.3			
FM	(30°-60°)	894.5	16.6			
FH	(60°-80°)	1503.5	27.9			G1/1800
FVH	(80°-90°)	226.8	4.2			G3/500
BL	(0°-30°)	68.7	1.3	B0/110		
BM	(30°-60°)	894.5	16.6	B1/1000		
BH	(60°-80°)	1503.5	27.9	B3/2500		G3/2500
BVH	(80°-90°)	226.8	4.2			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
2.5°	99.7	99.7	101.0	101.0	101.0	101.0	101.0	101.0	101.0	101.0	101.0
5°	103.5	103.5	103.5	103.5	104.8	104.8	103.5	103.5	103.5	103.5	103.5
7.5°	109.9	108.6	109.9	109.9	109.9	108.6	108.6	108.6	107.4	107.4	107.4
10°	116.3	116.3	117.6	116.3	116.3	115.0	115.0	115.0	113.8	113.8	113.8
12.5°	125.3	125.3	125.3	125.3	124.0	124.0	122.7	121.4	120.2	120.2	120.2
15°	136.8	135.5	135.5	134.2	132.9	131.7	130.4	130.4	129.1	129.1	129.1
17.5°	148.3	148.3	147.0	145.7	143.2	141.9	141.9	140.6	139.3	139.3	139.3
20°	162.3	162.3	161.1	158.5	155.9	154.7	153.4	153.4	152.1	152.1	152.1
22.5°	178.9	177.7	175.1	172.6	170.0	168.7	167.4	166.2	166.2	166.2	166.2
25°	196.8	195.6	194.3	190.5	186.6	185.3	182.8	182.8	181.5	182.8	182.8
27.5°	218.6	217.3	214.7	210.9	205.8	203.2	202.0	202.0	203.2	203.2	204.5
30°	245.4	242.9	240.3	235.2	230.1	226.2	226.2	227.5	231.4	233.9	233.9
32.5°	277.4	276.1	272.3	267.1	258.2	255.6	258.2	265.9	271.0	274.8	277.4
35°	314.4	313.2	308.0	299.1	292.7	291.4	299.1	311.9	328.5	333.6	336.2
37.5°	355.3	356.6	350.2	340.0	333.6	336.2	351.5	375.8	392.4	403.9	406.5
40°	406.5	409.0	401.4	389.9	383.5	393.7	418.0	446.1	475.5	489.5	493.4
42.5°	466.5	470.4	460.2	448.6	444.8	461.4	495.9	542.0	594.4	611.0	617.4
45°	540.7	543.2	530.5	520.2	517.7	547.1	605.9	682.6	765.6	804.0	810.4
47.5°	628.9	627.6	616.1	603.3	605.9	648.0	736.2	839.8	928.0	986.8	999.6
50°	729.9	723.5	714.5	699.2	715.8	777.1	888.3	1013.6	1161.9	1214.3	1237.3
52.5°	830.8	819.3	811.7	801.4	830.8	910.1	1066.0	1284.6	1508.3	1628.4	1652.7
55°	921.6	912.6	908.8	910.1	956.1	1069.9	1274.4	1554.3	1770.3	1870.0	1887.9
57.5°	1011.1	1005.9	1002.1	1009.8	1082.6	1230.9	1461.0	1723.0	1900.7	1974.8	1987.6
60°	1095.4	1100.5	1098.0	1121.0	1209.2	1358.7	1558.1	1816.3	1987.6	2055.3	2069.4
62.5°	1188.7	1192.6	1192.6	1218.1	1289.7	1421.4	1624.6	1926.2	2143.5	2243.2	2258.6
65°	1269.3	1271.8	1276.9	1278.2	1344.7	1476.3	1742.2	2027.2	2221.5	2336.5	2346.8
67.5°	1329.3	1331.9	1325.5	1319.1	1370.2	1489.1	1733.2	2014.4	2187.0	2273.9	2281.6
70°	1377.9	1366.4	1348.5	1316.5	1333.2	1422.6	1659.1	1912.2	2086.0	2164.0	2175.5
72.5°	1384.3	1374.1	1317.8	1246.2	1225.8	1303.8	1528.7	1756.2	1905.8	1979.9	1981.2
75°	1345.9	1319.1	1225.8	1118.4	1080.1	1154.2	1347.2	1554.3	1674.4	1737.1	1743.5
77.5°	1216.8	1191.3	1073.7	951.0	907.5	971.4	1135.0	1302.5	1417.5	1478.9	1482.7
80°	988.0	979.1	871.7	759.2	706.8	743.9	887.1	1018.7	1112.0	1184.9	1191.3
82.5°	728.6	720.9	639.1	540.7	498.5	529.2	631.4	728.6	815.5	874.3	878.1
85°	455.0	439.7	388.6	319.5	291.4	311.9	379.6	444.8	522.8	568.8	571.4
87.5°	152.1	145.7	125.3	103.5	86.9	90.8	111.2	135.5	198.1	218.6	231.4
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)