

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: P821155

Luminaire Tested: **TT-D3-830-24VDC-RW**

Issue Date: 10/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P821155  
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-D3-830-24VDC-RW  
Description: TOPTIER LED PARKING GARAGE LUMINAIRE  
3000K, 80 CRI LEDS AND RECTANGULAR DISTRIBUTION  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

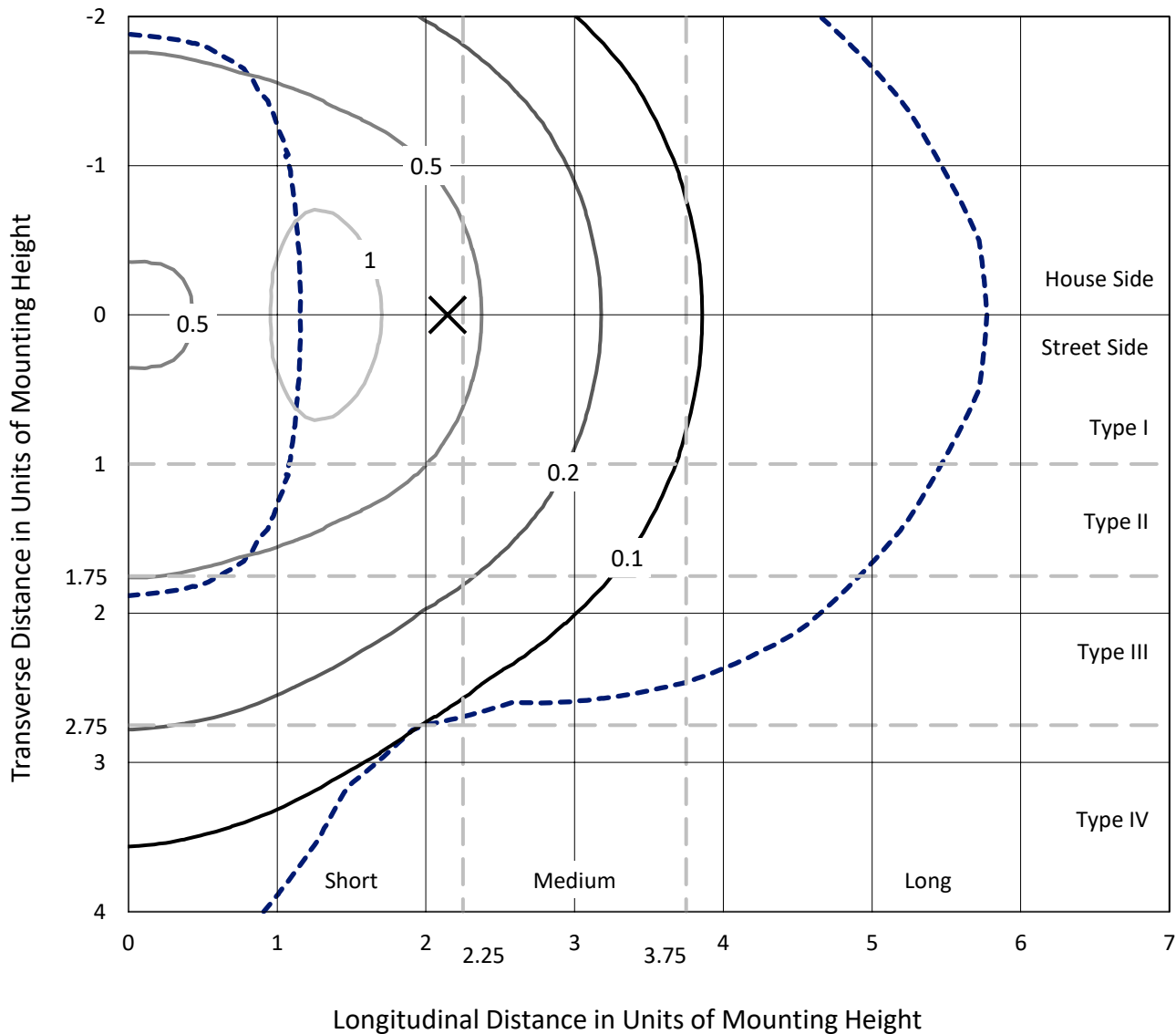
Lumens per Lamp: N/A  
Luminaire Lumens: 4526 lumens  
Efficiency: N/A  
Efficacy: 98.4 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 46  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

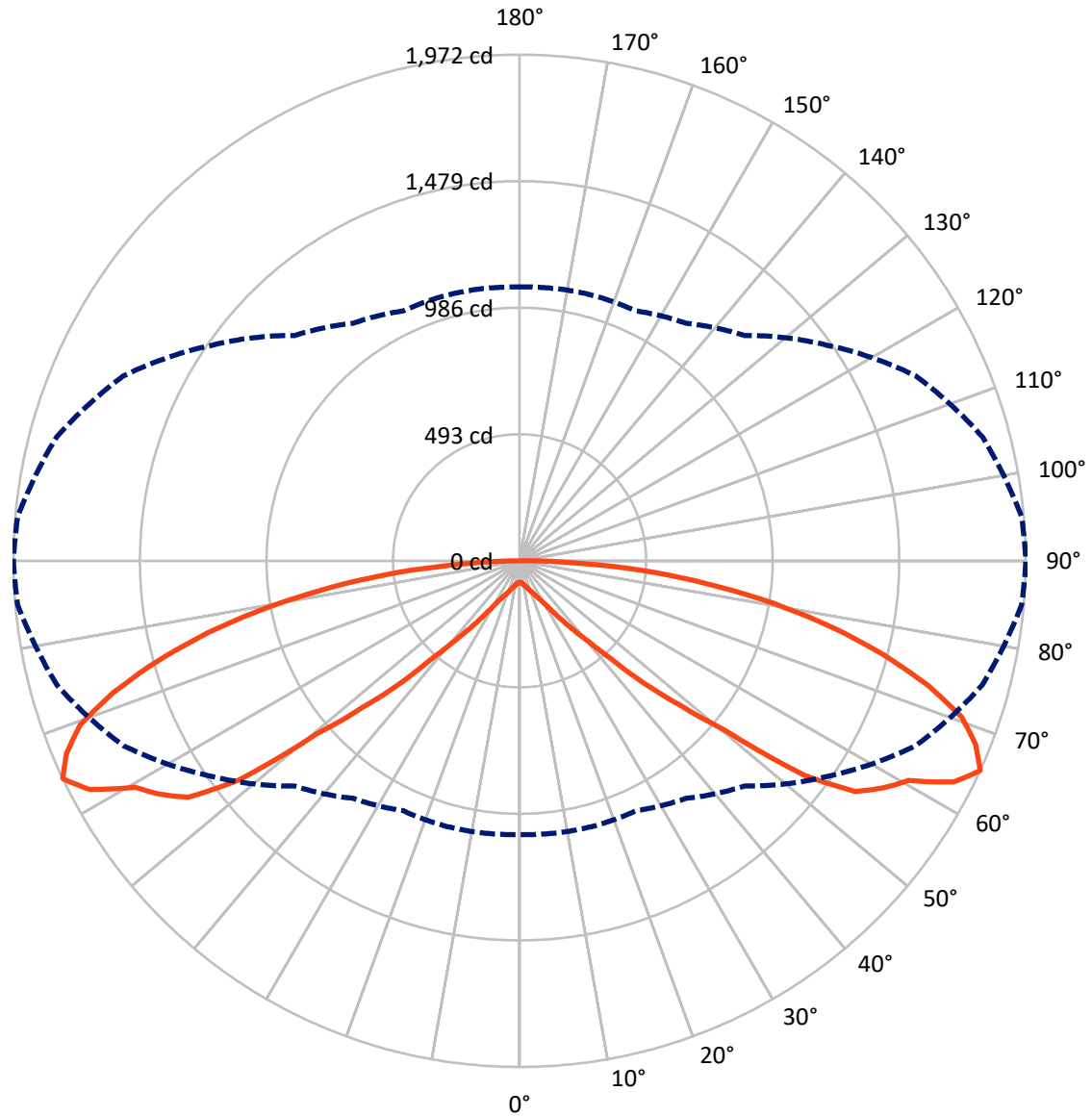
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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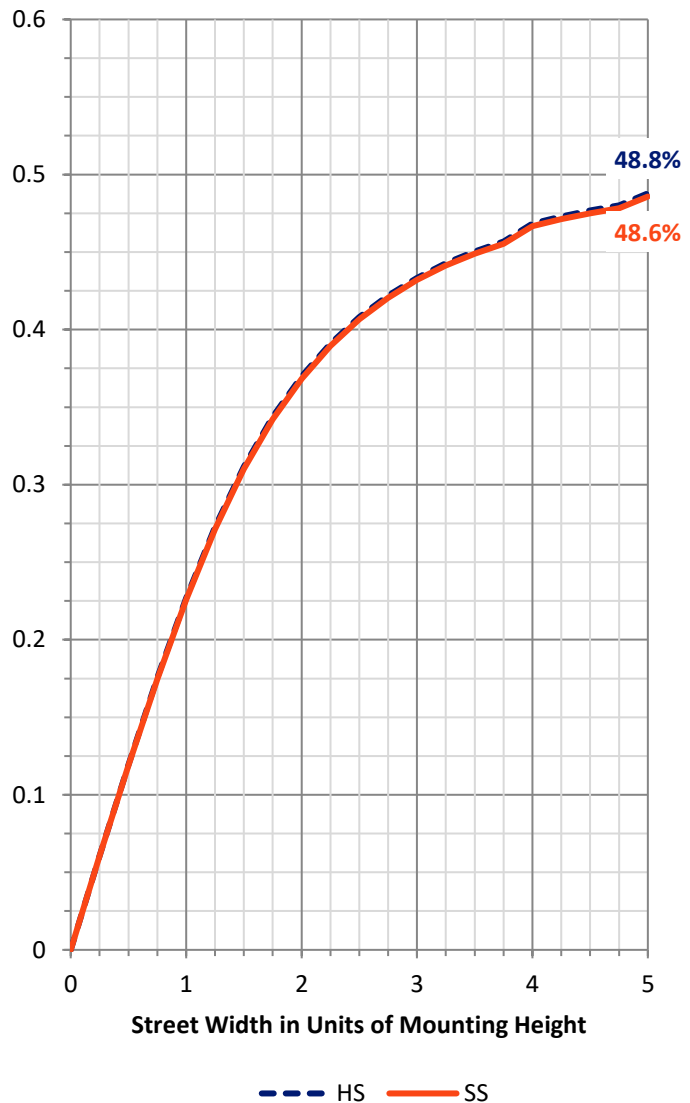
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2263.0	0.0	2263.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2263.0	0.0	2263.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4526.0	0.0	4526.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8.6	0.2
10°-20°	32.3	0.7
20°-30°	74.6	1.6
30°-40°	168.6	3.7
40°-50°	410.8	9.1
50°-60°	923.7	20.4
60°-70°	1350.0	29.8
70°-80°	1176.3	26.0
80°-90°	381.0	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°	4526.0	100.0
0°-180°	4526.0	100.0



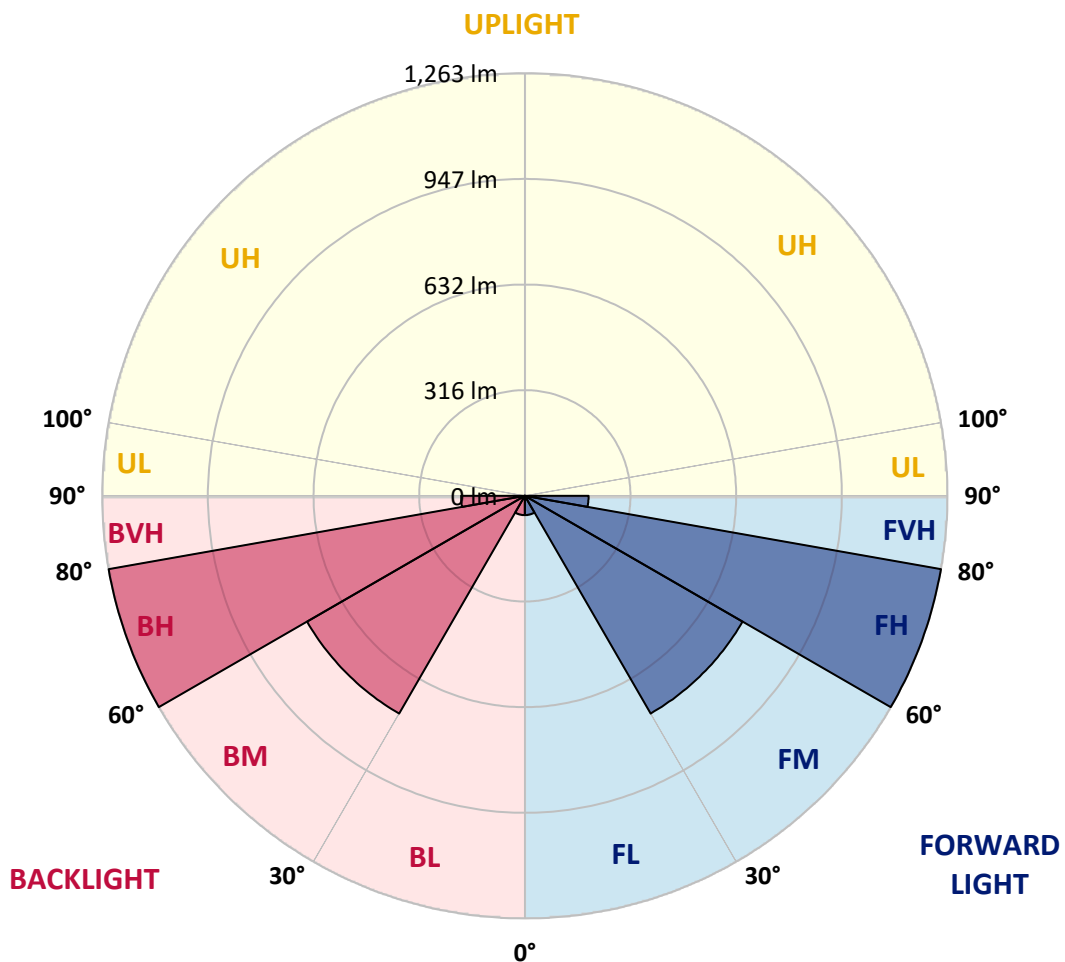
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	57.8	1.3			
FM (30°-60°)	751.6	16.6			
FH (60°-80°)	1263.2	27.9			G1/1800
FVH (80°-90°)	190.5	4.2			G2/225
BL (0°-30°)	57.8	1.3	B0/110		
BM (30°-60°)	751.6	16.6	B1/1000		
BH (60°-80°)	1263.2	27.9	B3/2500		G3/2500
BVH (80°-90°)	190.5	4.2			G2/225
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°	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
2.5°	83.8	83.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
5°	87.0	87.0	87.0	87.0	88.1	88.1	87.0	87.0	87.0	87.0	87.0
7.5°	92.4	91.3	92.4	92.4	92.4	91.3	91.3	91.3	90.2	90.2	90.2
10°	97.7	97.7	98.8	97.7	97.7	96.7	96.7	96.7	95.6	95.6	95.6
12.5°	105.2	105.2	105.2	105.2	104.2	104.2	103.1	102.0	100.9	100.9	100.9
15°	114.9	113.8	113.8	112.8	111.7	110.6	109.5	109.5	108.5	108.5	108.5
17.5°	124.6	124.6	123.5	122.4	120.3	119.2	119.2	118.1	117.1	117.1	117.1
20°	136.4	136.4	135.3	133.2	131.0	129.9	128.9	128.9	127.8	127.8	127.8
22.5°	150.3	149.3	147.1	145.0	142.8	141.8	140.7	139.6	139.6	139.6	139.6
25°	165.4	164.3	163.2	160.0	156.8	155.7	153.6	153.6	152.5	153.6	153.6
27.5°	183.6	182.6	180.4	177.2	172.9	170.8	169.7	169.7	170.8	170.8	171.8
30°	206.2	204.0	201.9	197.6	193.3	190.1	190.1	191.2	194.4	196.5	196.5
32.5°	233.0	232.0	228.7	224.4	216.9	214.8	216.9	223.4	227.7	230.9	233.0
35°	264.2	263.1	258.8	251.3	245.9	244.9	251.3	262.0	276.0	280.3	282.4
37.5°	298.5	299.6	294.2	285.7	280.3	282.4	295.3	315.7	329.7	339.4	341.5
40°	341.5	343.6	337.2	327.5	322.2	330.8	351.2	374.8	399.5	411.3	414.5
42.5°	392.0	395.2	386.6	376.9	373.7	387.7	416.7	455.3	499.4	513.3	518.7
45°	454.3	456.4	445.7	437.1	434.9	459.6	509.0	573.5	643.3	675.5	680.9
47.5°	528.4	527.3	517.6	506.9	509.0	544.5	618.6	705.6	779.7	829.1	839.8
50°	613.2	607.8	600.3	587.4	601.4	652.9	746.4	851.6	976.2	1020.2	1039.5
52.5°	698.0	688.4	681.9	673.3	698.0	764.6	895.6	1079.3	1267.2	1368.2	1388.6
55°	774.3	766.8	763.5	764.6	803.3	898.9	1070.7	1305.9	1487.4	1571.1	1586.2
57.5°	849.5	845.2	841.9	848.4	909.6	1034.2	1227.5	1447.6	1596.9	1659.2	1669.9
60°	920.3	924.6	922.5	941.8	1015.9	1141.6	1309.1	1526.0	1669.9	1726.8	1738.7
62.5°	998.7	1002.0	1002.0	1023.4	1083.6	1194.2	1364.9	1618.4	1800.9	1884.7	1897.6
65°	1066.4	1068.5	1072.8	1073.9	1129.7	1240.4	1463.7	1703.2	1866.4	1963.1	1971.7
67.5°	1116.9	1119.0	1113.6	1108.3	1151.2	1251.1	1456.2	1692.5	1837.5	1910.5	1916.9
70°	1157.7	1148.0	1133.0	1106.1	1120.1	1195.3	1393.9	1606.6	1752.6	1818.1	1827.8
72.5°	1163.0	1154.4	1107.2	1047.1	1029.9	1095.4	1284.4	1475.5	1601.2	1663.5	1664.6
75°	1130.8	1108.3	1029.9	939.7	907.4	969.7	1131.9	1305.9	1406.8	1459.4	1464.8
77.5°	1022.4	1000.9	902.1	799.0	762.5	816.2	953.6	1094.3	1191.0	1242.5	1245.7
80°	830.1	822.6	732.4	637.9	593.9	625.0	745.3	855.9	934.3	995.5	1000.9
82.5°	612.1	605.7	537.0	454.3	418.8	444.6	530.5	612.1	685.2	734.6	737.8
85°	382.3	369.4	326.5	268.5	244.9	262.0	318.9	373.7	439.2	477.9	480.0
87.5°	127.8	122.4	105.2	87.0	73.0	76.2	93.4	113.8	166.5	183.6	194.4
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)