

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: P458658

Luminaire Tested: **GALN-SA2B-735-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458658
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-735-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11180 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

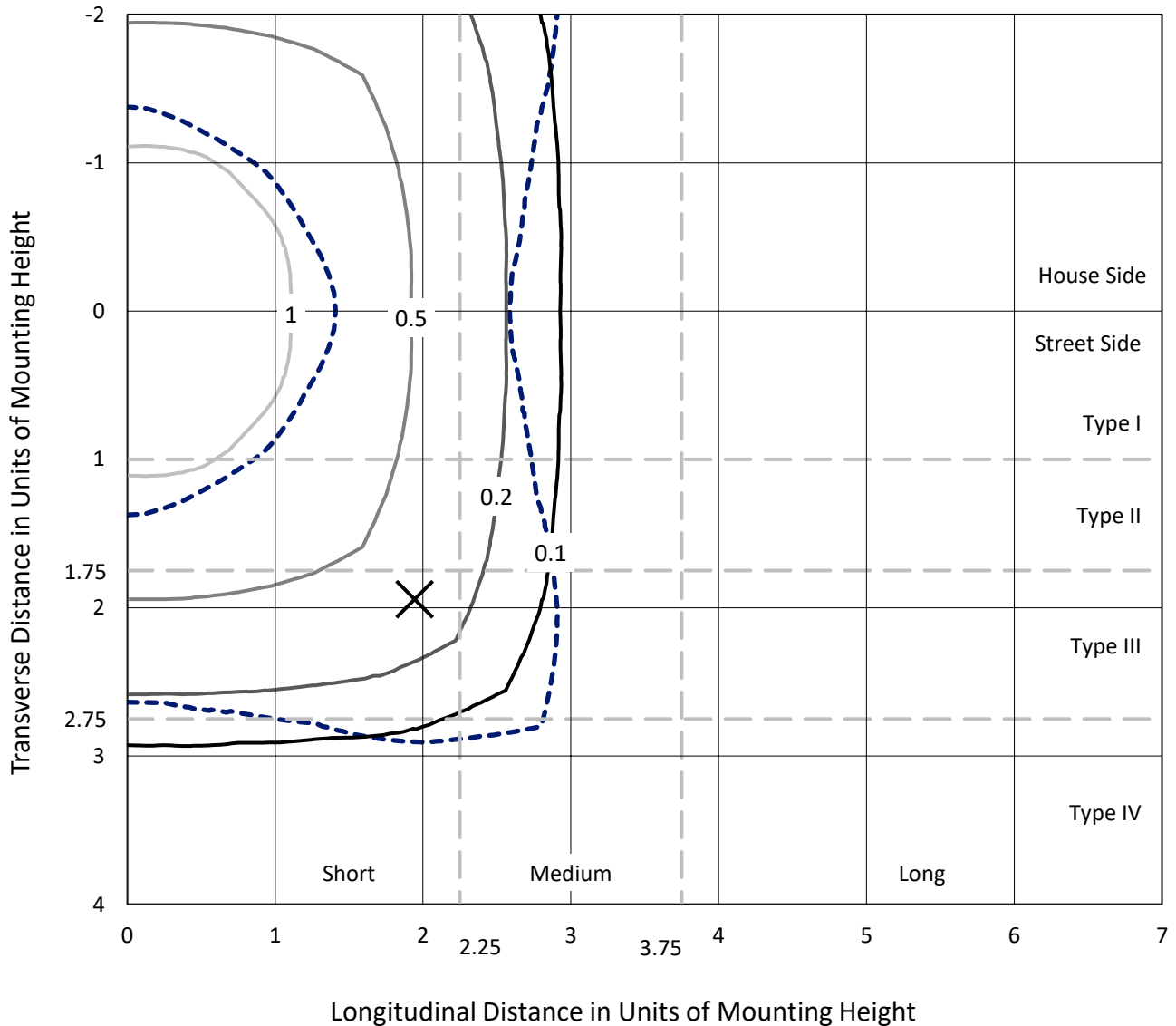
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

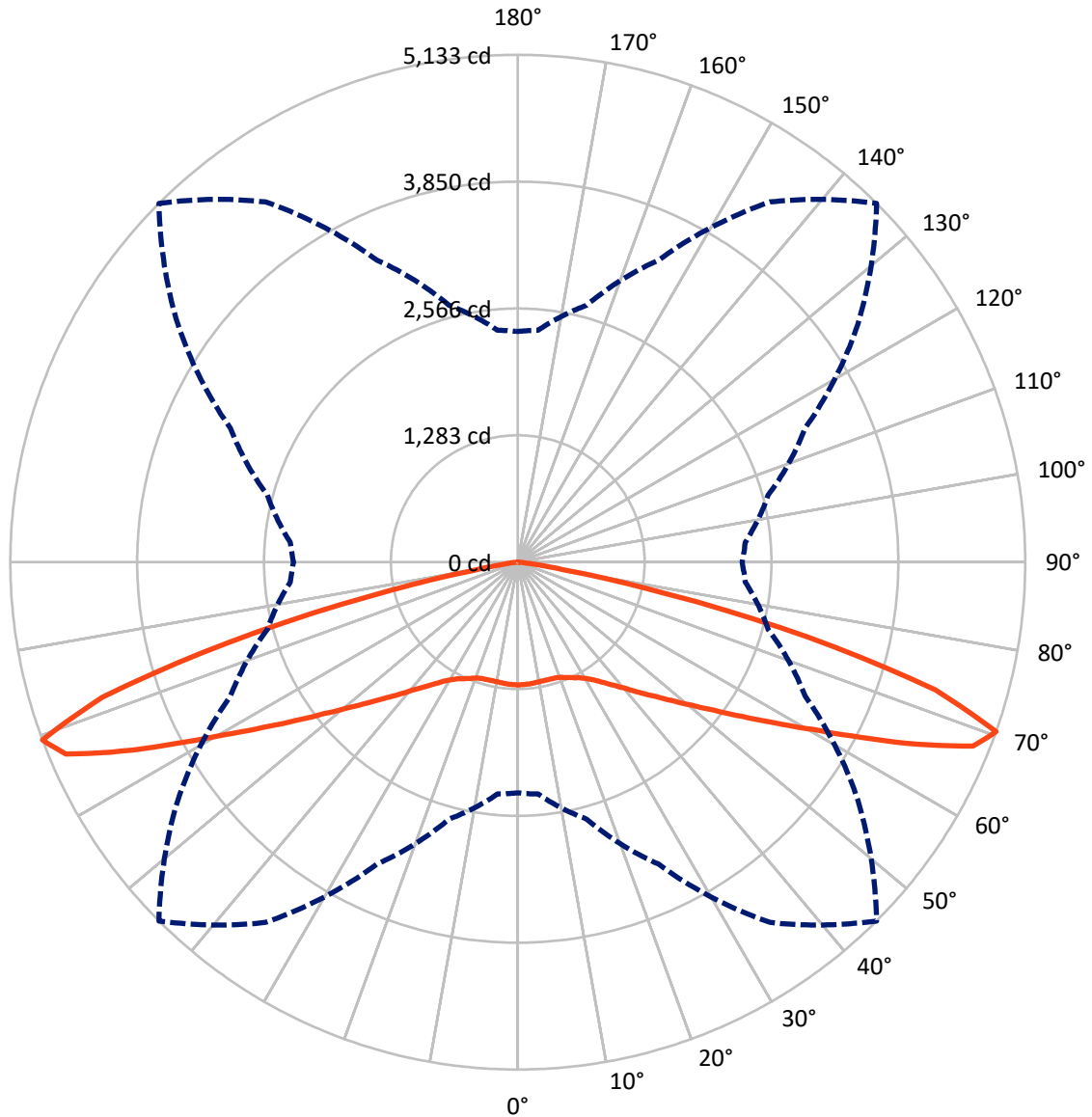
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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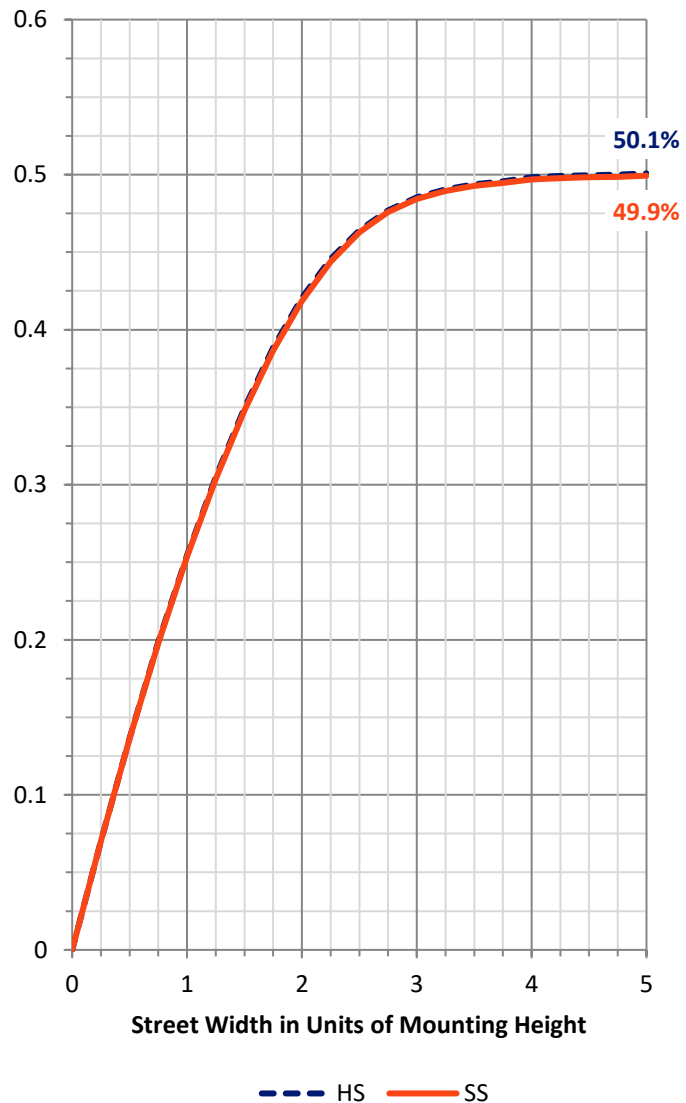
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5590.0	0.0	5590.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5590.0	0.0	5590.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	11180.0	0.0	11180.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.7	1.1
10°-20°	345.5	3.1
20°-30°	590.9	5.3
30°-40°	937.8	8.4
40°-50°	1512.9	13.5
50°-60°	2461.6	22.0
60°-70°	3568.4	31.9
70°-80°	1582.8	14.2
80°-90°	62.4	0.6
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°	11180.0	100.0
0°-180°	11180.0	100.0



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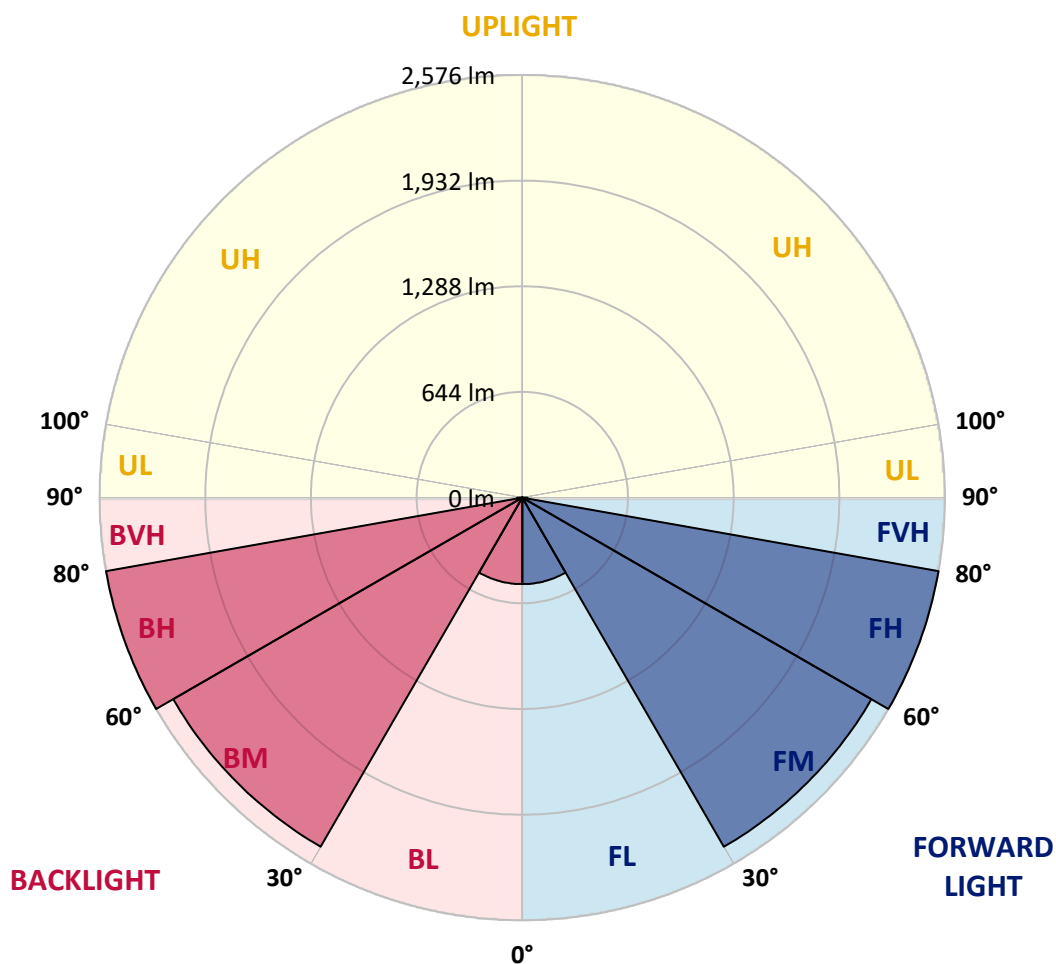
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	527.0	4.7			
FM	(30°-60°)	2456.2	22.0			
FH	(60°-80°)	2575.6	23.0			G2/5000
FVH	(80°-90°)	31.2	0.3			G1/100
BL	(0°-30°)	527.0	4.7	B2/1000		
BM	(30°-60°)	2456.2	22.0	B2/2500		
BH	(60°-80°)	2575.6	23.0	B4/5000		G2/5000
BVH	(80°-90°)	31.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1241.5	1241.5	1241.5	1241.5	1241.5	1241.5	1241.5	1241.5	1241.5	1241.5	1241.5
2.5°	1241.5	1242.7	1240.9	1239.7	1239.1	1239.1	1238.5	1239.1	1242.7	1243.3	1241.5
5°	1238.0	1239.1	1238.5	1237.4	1236.8	1236.8	1236.2	1235.6	1238.5	1239.7	1239.1
7.5°	1233.2	1233.8	1233.2	1232.6	1233.2	1232.6	1230.9	1229.7	1232.1	1232.1	1231.5
10°	1225.0	1226.2	1225.6	1226.2	1227.3	1227.3	1225.0	1222.6	1223.2	1222.0	1222.0
12.5°	1215.0	1216.7	1217.3	1219.7	1222.6	1226.2	1220.9	1215.6	1214.4	1213.8	1213.2
15°	1208.5	1210.3	1212.6	1215.0	1220.3	1227.9	1220.3	1212.0	1209.7	1207.3	1206.1
17.5°	1206.7	1209.1	1212.6	1216.1	1223.2	1230.9	1224.4	1216.1	1210.3	1206.7	1205.5
20°	1211.4	1213.2	1218.5	1225.0	1235.0	1242.7	1236.2	1227.3	1218.5	1213.2	1211.4
22.5°	1220.9	1223.8	1230.3	1242.1	1256.2	1267.4	1258.6	1243.8	1229.7	1222.6	1220.3
25°	1241.5	1243.8	1251.5	1267.4	1283.9	1294.5	1285.1	1268.0	1248.6	1239.1	1236.2
27.5°	1272.7	1276.3	1284.5	1303.4	1316.9	1322.8	1316.3	1304.5	1290.4	1280.4	1278.0
30°	1316.9	1321.0	1333.4	1353.4	1362.3	1365.8	1362.9	1355.2	1345.2	1334.6	1332.2
32.5°	1376.4	1378.8	1392.9	1411.8	1420.0	1421.2	1417.7	1414.1	1397.6	1380.0	1378.8
35°	1443.0	1447.1	1464.2	1486.6	1494.3	1494.9	1487.8	1482.5	1463.0	1448.9	1448.9
37.5°	1531.4	1533.2	1549.6	1575.0	1583.2	1580.9	1577.3	1572.6	1552.0	1533.7	1534.3
40°	1635.1	1638.6	1652.8	1682.2	1682.2	1679.3	1681.6	1678.1	1657.5	1639.8	1640.4
42.5°	1758.2	1760.0	1777.1	1808.3	1806.0	1800.1	1802.4	1797.7	1784.7	1764.7	1757.6
45°	1889.6	1896.7	1926.2	1956.2	1951.5	1932.6	1942.1	1940.9	1929.1	1899.1	1900.8
47.5°	2048.1	2059.9	2088.2	2124.1	2118.8	2089.4	2100.0	2107.1	2090.6	2057.6	2051.7
50°	2226.7	2234.3	2276.2	2309.7	2305.0	2273.8	2298.0	2299.1	2257.9	2211.3	2211.3
52.5°	2417.0	2424.6	2481.2	2533.6	2536.6	2491.2	2510.7	2509.5	2442.3	2381.0	2369.3
55°	2630.3	2633.8	2706.9	2784.1	2800.6	2756.4	2758.7	2735.2	2648.0	2576.7	2570.2
57.5°	2850.6	2863.6	2944.3	3044.5	3093.4	3066.3	3053.9	2990.9	2906.6	2824.7	2820.6
60°	3094.6	3095.2	3200.1	3318.5	3417.5	3435.7	3385.1	3300.8	3191.8	3083.4	3078.7
62.5°	3263.7	3289.0	3421.6	3621.9	3799.3	3901.8	3768.1	3591.3	3376.8	3201.8	3184.1
65°	3298.5	3315.5	3517.6	3857.0	4219.4	4440.4	4131.0	3755.1	3389.2	3155.9	3144.1
67.5°	3017.4	3035.7	3307.9	3828.8	4514.0	4967.1	4366.7	3676.1	3179.4	2890.7	2867.7
70°	2333.9	2354.5	2691.0	3370.3	4448.6	5132.7	4198.8	3206.5	2622.0	2310.3	2268.5
72.5°	1240.9	1316.9	1604.4	2313.3	3610.7	4419.1	3442.8	2339.8	1691.1	1382.3	1326.9
75°	453.1	462.5	622.8	1025.8	2100.6	3030.4	2181.3	1116.0	641.7	495.5	470.2
77.5°	187.4	186.8	205.0	309.9	763.0	1552.0	851.4	327.6	204.5	189.1	186.8
80°	110.8	110.8	122.0	129.0	200.9	468.4	224.5	146.1	122.6	112.0	113.7
82.5°	49.5	52.4	77.2	81.3	97.2	128.4	108.4	93.1	80.1	55.4	50.1
85°	27.1	23.6	40.7	42.4	46.5	47.7	51.3	50.7	46.5	27.1	27.7
87.5°	5.3	6.5	11.8	8.8	10.0	8.8	11.8	16.5	17.1	9.4	7.7
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)