

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: P453150

Luminaire Tested: **GALN-SA4A-830-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453150
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-830-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15046 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 121
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: 24 FT

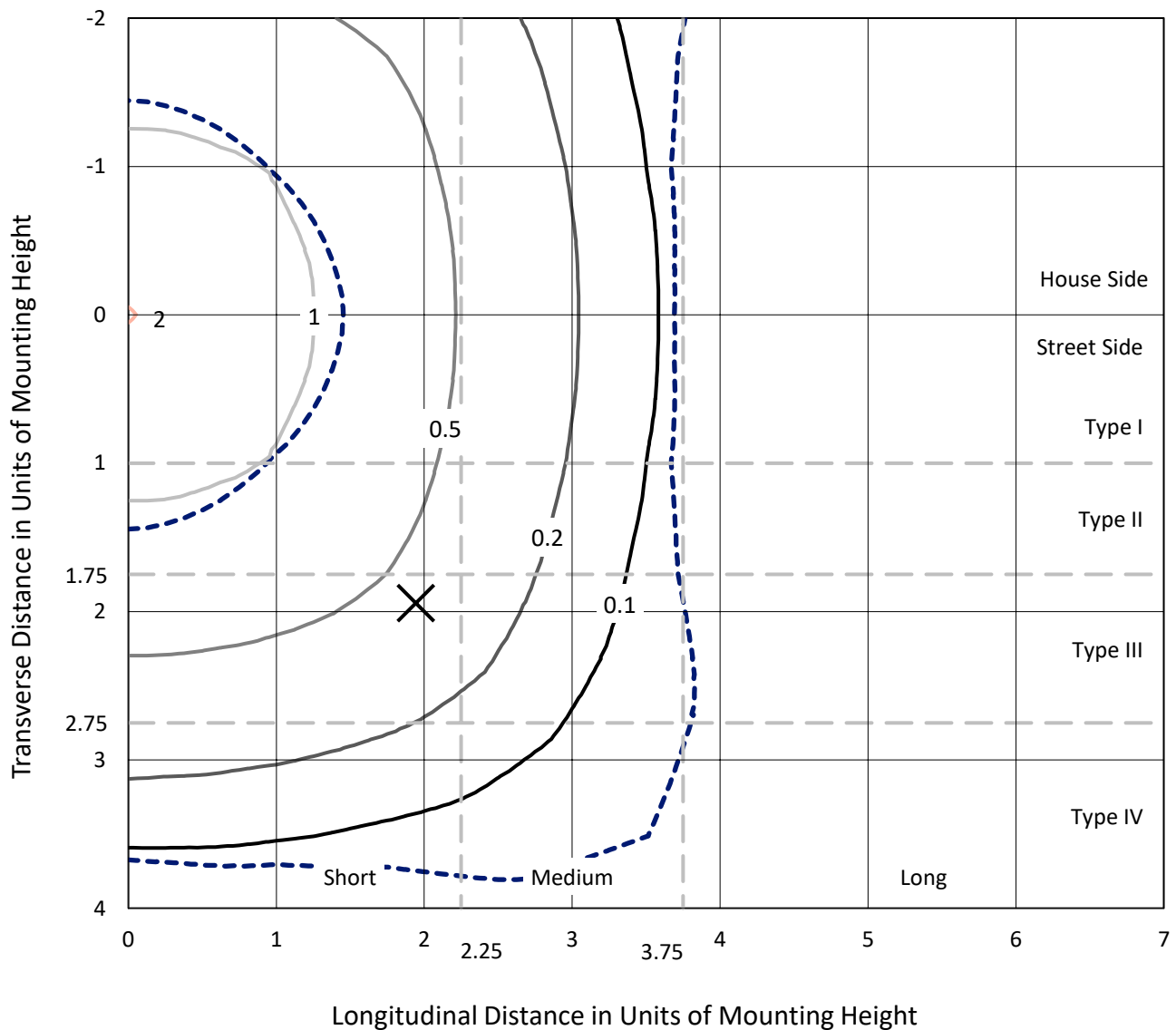


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



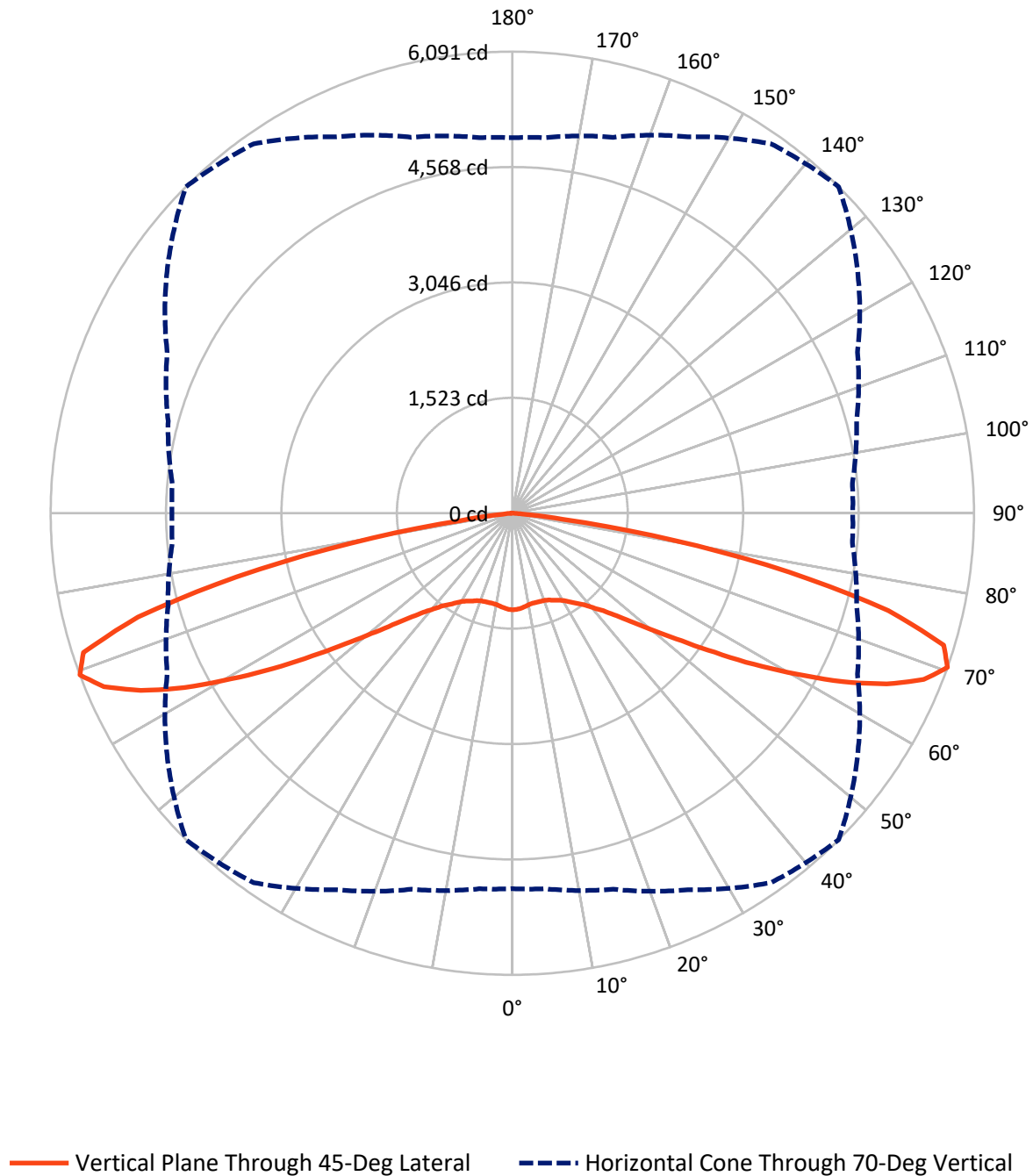
Based on 25 foot mounting height. Maximum calculated value = 2 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7523.0	0.0	7523.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7523.0	0.0	7523.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15046.0	0.0	15046.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.1	0.8
10°-20°	348.8	2.3
20°-30°	594.2	3.9
30°-40°	921.0	6.1
40°-50°	1550.2	10.3
50°-60°	2820.4	18.7
60°-70°	4774.9	31.7
70°-80°	3696.0	24.6
80°-90°	221.5	1.5
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°	15046.0	100.0
0°-180°	15046.0	100.0

Coefficient of Utilization



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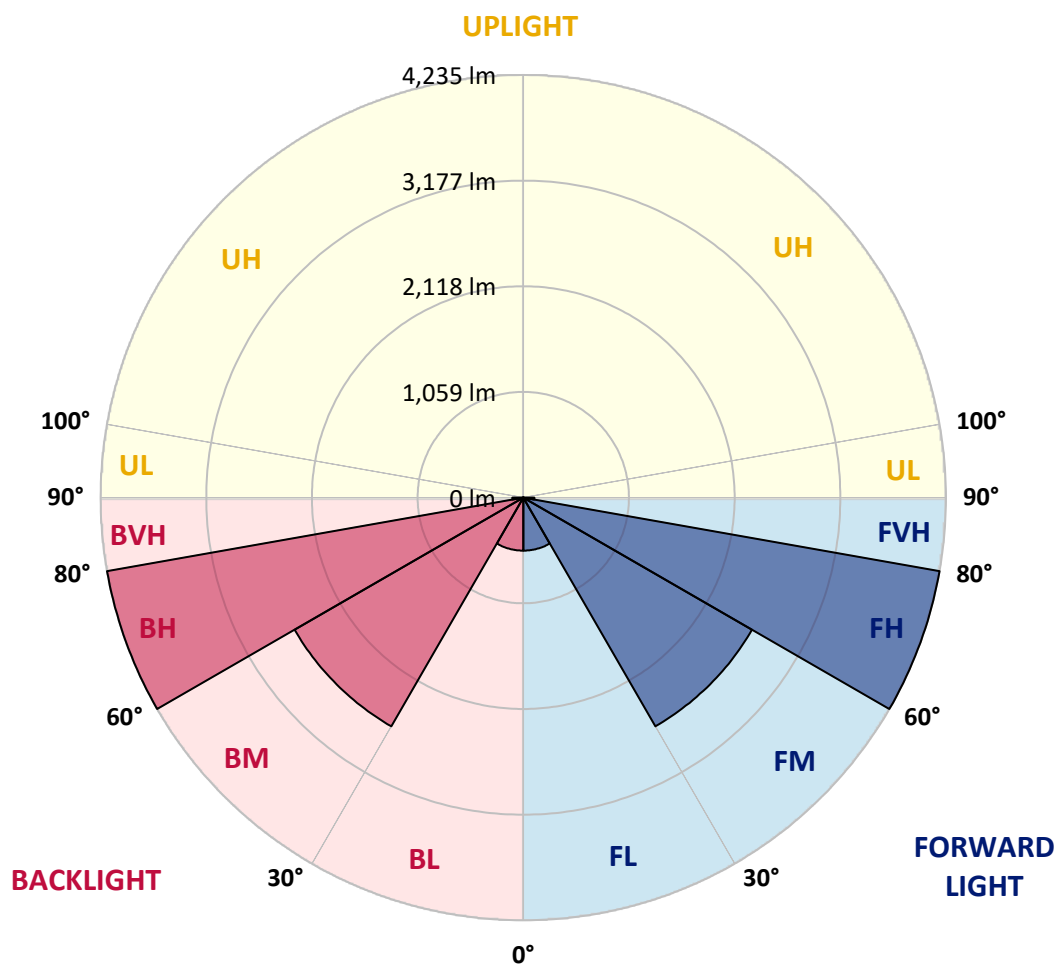
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	531.0	3.5			
FM	(30°-60°)	2645.8	17.6			
FH	(60°-80°)	4235.4	28.1			G2/5000
FVH	(80°-90°)	110.7	0.7			G2/225
BL	(0°-30°)	531.0	3.5	B2/1000		
BM	(30°-60°)	2645.8	17.6	B3/5000		
BH	(60°-80°)	4235.4	28.1	B4/5000		G2/5000
BVH	(80°-90°)	110.7	0.7			G2/225
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°	1273.8	1273.8	1273.8	1273.8	1273.8	1273.8	1273.8	1273.8	1273.8	1273.8	1273.8
2.5°	1270.6	1271.4	1271.4	1269.9	1269.1	1269.1	1268.3	1268.3	1270.6	1271.4	1272.2
5°	1259.5	1259.5	1259.5	1258.7	1257.1	1257.1	1255.6	1255.6	1256.3	1258.7	1257.1
7.5°	1244.4	1246.0	1246.0	1242.8	1240.5	1240.5	1239.7	1240.5	1241.2	1243.6	1242.8
10°	1239.7	1240.5	1236.5	1230.9	1226.9	1224.6	1225.4	1226.9	1230.9	1232.5	1233.3
12.5°	1242.8	1242.8	1235.7	1227.7	1220.6	1217.4	1216.6	1222.2	1229.3	1234.1	1235.7
15°	1246.8	1245.2	1236.5	1226.1	1219.0	1218.2	1217.4	1221.4	1231.7	1241.2	1242.0
17.5°	1249.2	1248.4	1237.3	1224.6	1220.6	1220.6	1219.8	1223.0	1234.1	1246.0	1246.8
20°	1257.1	1254.8	1242.0	1228.5	1225.4	1226.9	1224.6	1228.5	1240.5	1254.8	1257.9
22.5°	1273.0	1270.6	1257.9	1244.4	1242.8	1242.8	1242.0	1246.0	1258.7	1273.8	1276.2
25°	1292.1	1289.7	1277.8	1268.3	1269.9	1273.0	1271.4	1272.2	1282.6	1295.3	1299.3
27.5°	1317.5	1313.6	1303.2	1295.3	1300.1	1300.1	1300.1	1299.3	1305.6	1317.5	1321.5
30°	1348.5	1346.9	1335.8	1335.0	1339.0	1335.0	1335.0	1335.8	1336.6	1347.7	1351.7
32.5°	1389.1	1385.9	1380.3	1378.7	1389.8	1393.0	1381.9	1371.6	1377.1	1388.3	1390.6
35°	1455.8	1451.0	1443.1	1434.3	1443.1	1458.2	1434.3	1426.4	1440.7	1455.8	1457.4
37.5°	1546.4	1544.0	1531.3	1515.4	1514.6	1530.5	1505.9	1505.1	1532.1	1550.4	1552.8
40°	1660.0	1662.4	1646.5	1631.4	1623.5	1636.2	1617.1	1624.3	1650.5	1671.2	1669.6
42.5°	1819.8	1811.0	1786.4	1772.1	1763.3	1758.6	1753.8	1764.9	1794.3	1816.6	1834.1
45°	2006.5	2003.3	1972.3	1954.8	1935.8	1928.6	1927.0	1946.9	1982.7	2009.7	2012.1
47.5°	2217.9	2210.7	2190.9	2172.6	2165.4	2156.7	2148.7	2163.8	2199.6	2218.7	2224.2
50°	2435.6	2437.2	2437.2	2434.0	2441.2	2442.8	2421.3	2426.9	2446.7	2445.1	2443.6
52.5°	2684.3	2693.1	2734.4	2738.4	2772.5	2795.6	2756.6	2733.6	2726.5	2683.5	2686.7
55°	2976.8	2984.7	3046.7	3108.7	3200.9	3239.8	3157.9	3086.4	3035.6	2970.4	2973.6
57.5°	3341.5	3345.5	3404.3	3523.5	3669.7	3761.1	3617.3	3475.8	3372.5	3310.5	3285.9
60°	3734.1	3738.0	3823.9	3969.3	4196.6	4307.8	4129.8	3898.6	3768.2	3673.7	3680.0
62.5°	4205.3	4221.2	4298.3	4498.5	4774.3	4899.0	4663.0	4353.9	4177.5	4059.9	4064.6
65°	4709.9	4736.9	4821.2	5041.3	5295.6	5429.9	5140.6	4783.8	4564.5	4420.7	4435.8
67.5°	5037.3	5061.1	5182.7	5425.9	5743.0	5854.2	5480.7	5065.1	4791.0	4619.3	4587.5
70°	4953.9	4973.7	5135.8	5480.7	5950.4	6091.0	5561.8	5023.8	4701.2	4503.3	4490.6
72.5°	4373.0	4331.7	4568.5	5063.5	5713.6	5949.6	5306.7	4588.3	4182.3	3978.8	3955.0
75°	2898.1	2987.9	3337.5	3920.8	4833.9	5126.3	4529.5	3684.0	3173.0	3003.8	2977.6
77.5°	968.7	1037.8	1348.5	2222.6	3295.4	3734.9	3300.2	2409.4	1704.5	1373.2	1379.5
80°	256.7	253.5	328.2	611.1	1424.0	2163.0	1657.6	816.1	446.6	323.4	306.7
82.5°	92.2	103.3	132.7	169.3	377.5	672.3	474.4	228.9	167.7	124.0	120.0
85°	40.5	39.7	57.2	67.5	94.6	125.6	111.3	96.9	85.0	56.4	52.4
87.5°	8.7	8.7	13.5	10.3	16.7	16.7	20.7	24.6	25.4	16.7	13.5
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)