

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: P651826

Luminaire Tested: **GALN-SA4A-840-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651826
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-840-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 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: 15923.5 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

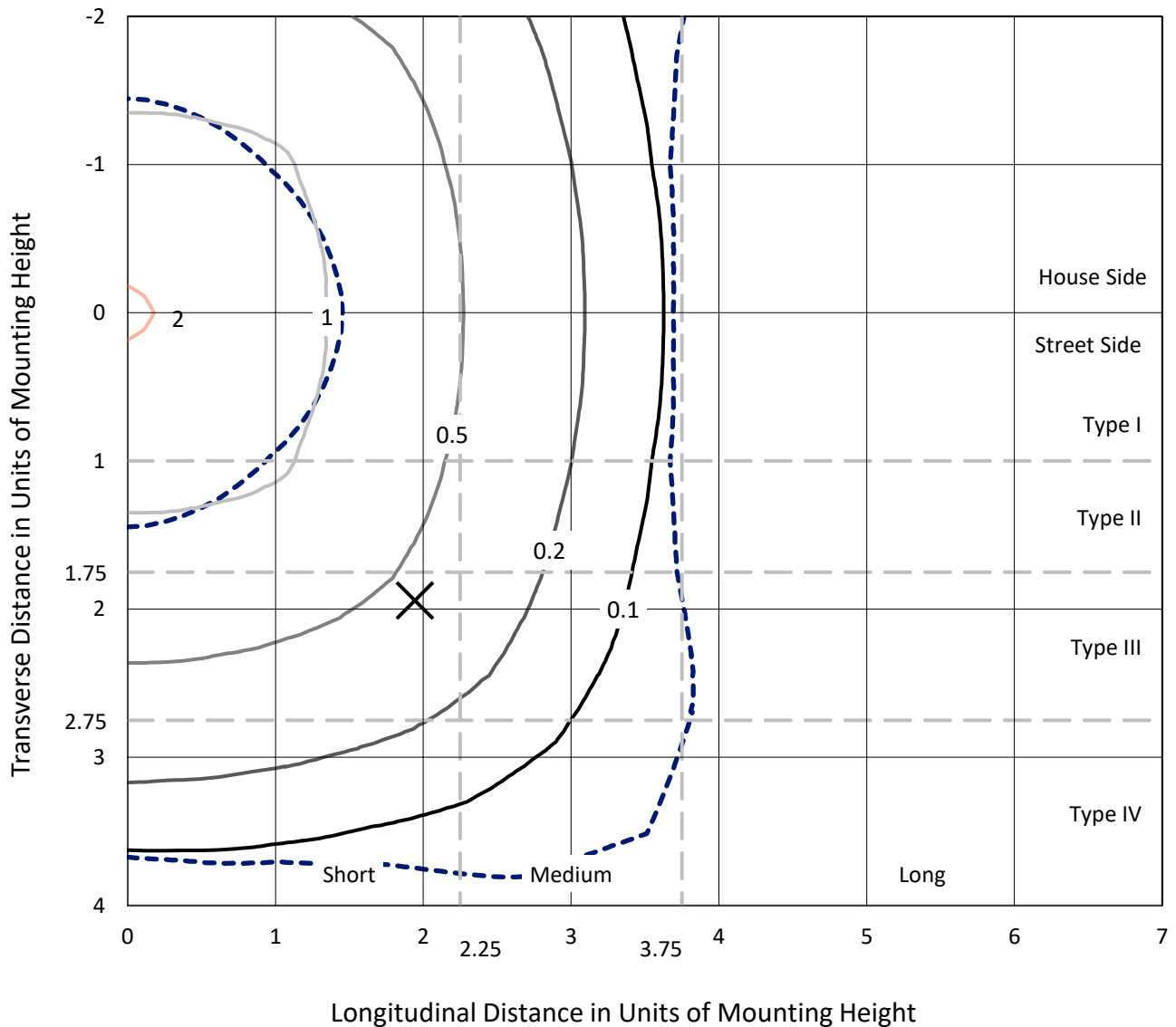
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

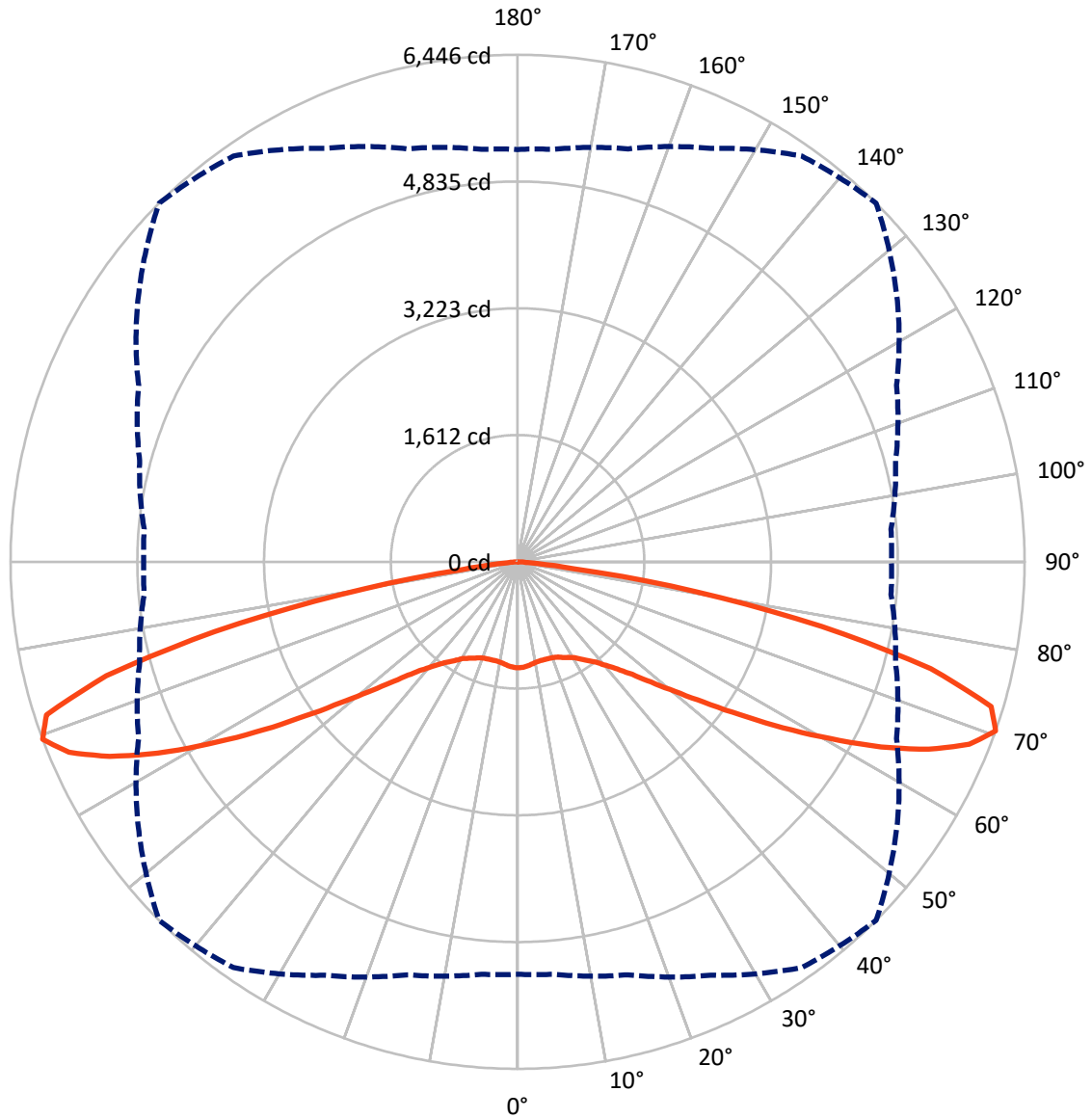
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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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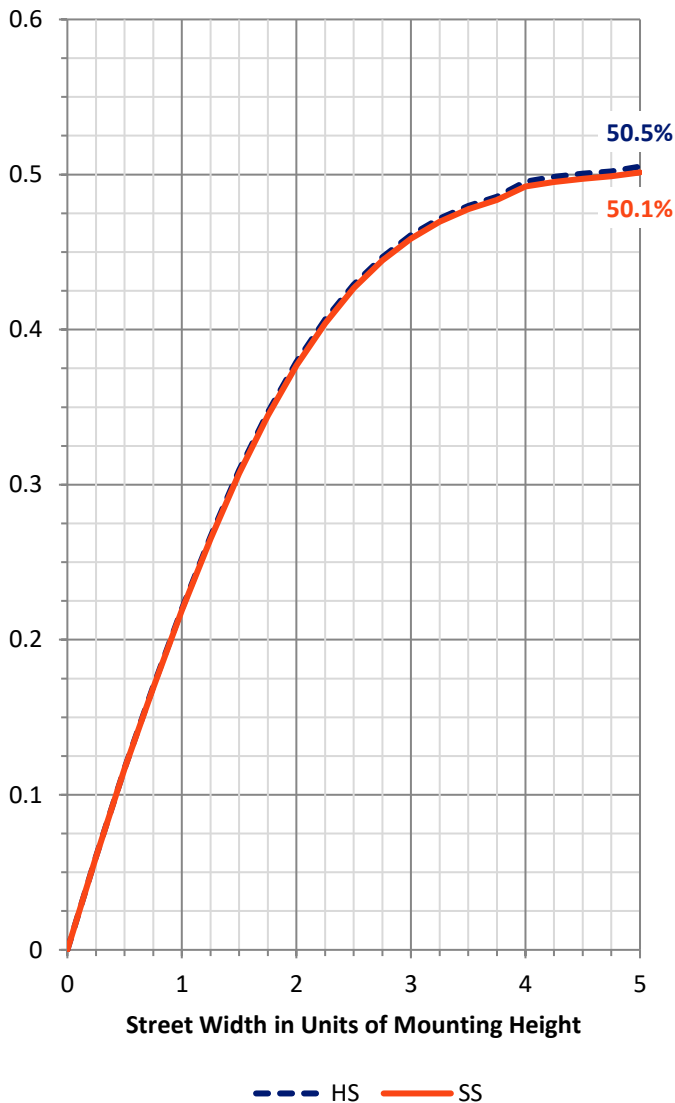
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7961.8	0.0	7961.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7961.8	0.0	7961.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	15923.5	0.0	15923.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.1	0.8
10°-20°	369.1	2.3
20°-30°	628.8	3.9
30°-40°	974.7	6.1
40°-50°	1640.6	10.3
50°-60°	2984.9	18.7
60°-70°	5053.4	31.7
70°-80°	3911.5	24.6
80°-90°	234.4	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°	15923.5	100.0
0°-180°	15923.5	100.0

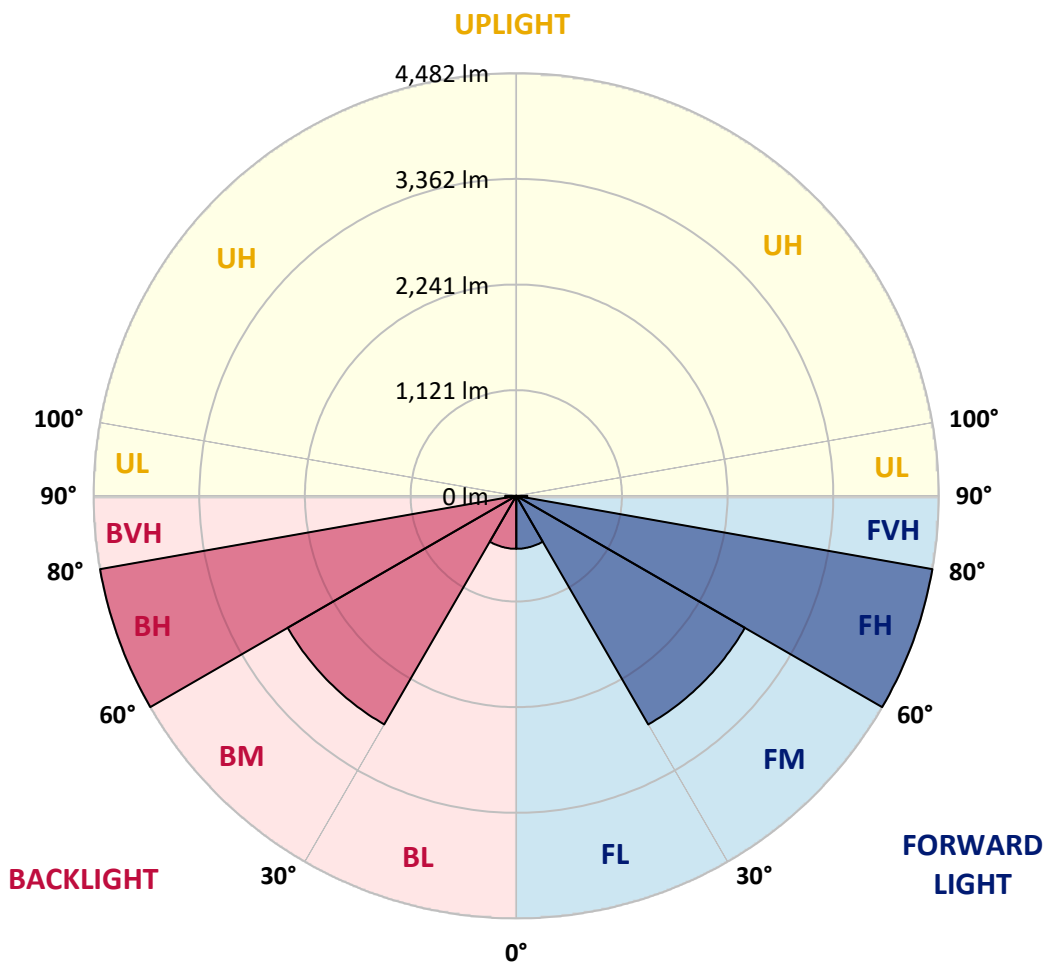


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	562.0	3.5			
FM (30°-60°)	2800.1	17.6			
FH (60°-80°)	4482.5	28.1			G2/5000
FVH (80°-90°)	117.2	0.7			G2/225
BL (0°-30°)	562.0	3.5	B2/1000		
BM (30°-60°)	2800.1	17.6	B3/5000		
BH (60°-80°)	4482.5	28.1	B4/5000		G2/5000
BVH (80°-90°)	117.2	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°	1348.1	1348.1	1348.1	1348.1	1348.1	1348.1	1348.1	1348.1	1348.1	1348.1	1348.1
2.5°	1344.8	1345.6	1345.6	1343.9	1343.1	1343.1	1342.2	1342.2	1344.8	1345.6	1346.4
5°	1333.0	1333.0	1333.0	1332.1	1330.5	1330.5	1328.8	1328.8	1329.6	1332.1	1330.5
7.5°	1317.0	1318.7	1318.7	1315.3	1312.8	1312.8	1312.0	1312.8	1313.6	1316.2	1315.3
10°	1312.0	1312.8	1308.6	1302.7	1298.5	1296.0	1296.8	1298.5	1302.7	1304.4	1305.2
12.5°	1315.3	1315.3	1307.8	1299.3	1291.8	1288.4	1287.6	1293.5	1301.0	1306.1	1307.8
15°	1319.5	1317.8	1308.6	1297.7	1290.1	1289.3	1288.4	1292.6	1303.6	1313.6	1314.5
17.5°	1322.1	1321.2	1309.4	1296.0	1291.8	1291.8	1290.9	1294.3	1306.1	1318.7	1319.5
20°	1330.5	1327.9	1314.5	1300.2	1296.8	1298.5	1296.0	1300.2	1312.8	1327.9	1331.3
22.5°	1347.3	1344.8	1331.3	1317.0	1315.3	1315.3	1314.5	1318.7	1332.1	1348.1	1350.6
25°	1367.5	1364.9	1352.3	1342.2	1343.9	1347.3	1345.6	1346.4	1357.4	1370.8	1375.0
27.5°	1394.4	1390.2	1379.2	1370.8	1375.9	1375.9	1375.9	1375.0	1381.8	1394.4	1398.6
30°	1427.2	1425.5	1413.7	1412.9	1417.1	1412.9	1412.9	1413.7	1414.6	1426.3	1430.5
32.5°	1470.1	1466.7	1460.8	1459.1	1470.9	1474.3	1462.5	1451.6	1457.5	1469.2	1471.8
35°	1540.7	1535.7	1527.3	1518.0	1527.3	1543.2	1518.0	1509.6	1524.7	1540.7	1542.4
37.5°	1636.6	1634.1	1620.6	1603.8	1602.9	1619.8	1593.7	1592.9	1621.4	1640.8	1643.3
40°	1756.8	1759.4	1742.6	1726.6	1718.2	1731.6	1711.4	1719.0	1746.8	1768.6	1766.9
42.5°	1925.9	1916.6	1890.6	1875.4	1866.2	1861.1	1856.1	1867.9	1899.0	1922.5	1941.0
45°	2123.5	2120.2	2087.4	2068.9	2048.7	2041.1	2039.4	2060.4	2098.3	2126.9	2129.4
47.5°	2347.2	2339.7	2318.6	2299.3	2291.7	2282.5	2274.1	2290.0	2327.9	2348.1	2354.0
50°	2577.7	2579.3	2579.3	2576.0	2583.6	2585.2	2562.5	2568.4	2589.4	2587.8	2586.1
52.5°	2840.9	2850.1	2893.9	2898.1	2934.2	2958.6	2917.4	2893.0	2885.5	2840.1	2843.4
55°	3150.4	3158.8	3224.4	3290.0	3387.5	3428.8	3342.1	3266.4	3212.6	3143.7	3147.0
57.5°	3536.4	3540.6	3602.8	3729.0	3883.7	3980.5	3828.2	3678.5	3569.2	3503.6	3477.5
60°	3951.9	3956.1	4046.9	4200.8	4441.3	4559.1	4370.7	4125.9	3988.0	3887.9	3894.7
62.5°	4450.6	4467.4	4549.0	4760.9	5052.7	5184.8	4935.0	4607.8	4421.1	4296.7	4301.7
65°	4984.6	5013.2	5102.3	5335.3	5604.4	5746.6	5440.4	5062.8	4830.7	4678.5	4694.5
67.5°	5331.1	5356.3	5485.0	5742.3	6077.9	6195.6	5800.4	5360.5	5070.4	4888.7	4855.1
70°	5242.8	5263.8	5435.4	5800.4	6297.4	6446.3	5886.2	5316.8	4975.4	4765.9	4752.5
72.5°	4628.0	4584.3	4834.9	5358.9	6046.8	6296.6	5616.2	4855.9	4426.2	4210.9	4185.7
75°	3067.1	3162.2	3532.2	4149.5	5115.8	5425.3	4793.7	3898.9	3358.1	3179.0	3151.2
77.5°	1025.2	1098.3	1427.2	2352.3	3487.6	3952.7	3492.7	2549.9	1803.9	1453.2	1460.0
80°	271.6	268.3	347.3	646.7	1507.1	2289.2	1754.3	863.7	472.6	342.3	324.6
82.5°	97.6	109.3	140.4	179.1	399.5	711.5	502.1	242.2	177.5	131.2	127.0
85°	42.9	42.0	60.6	71.5	100.1	132.9	117.7	102.6	90.0	59.7	55.5
87.5°	9.3	9.3	14.3	10.9	17.7	17.7	21.9	26.1	26.9	17.7	14.3
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)