

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: P651713

Luminaire Tested: **GALN-SA2A-840-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-840-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8071.9 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

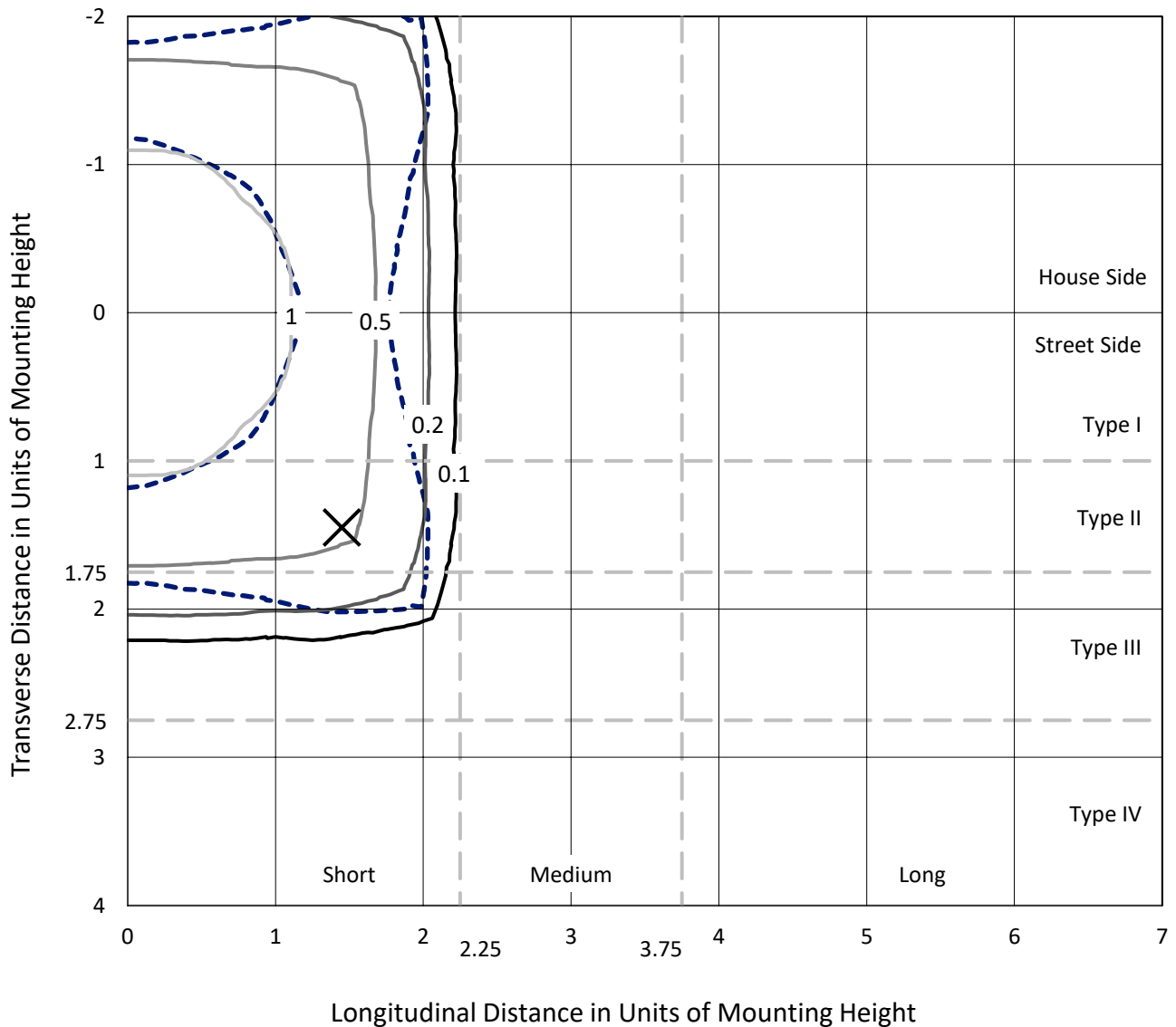
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

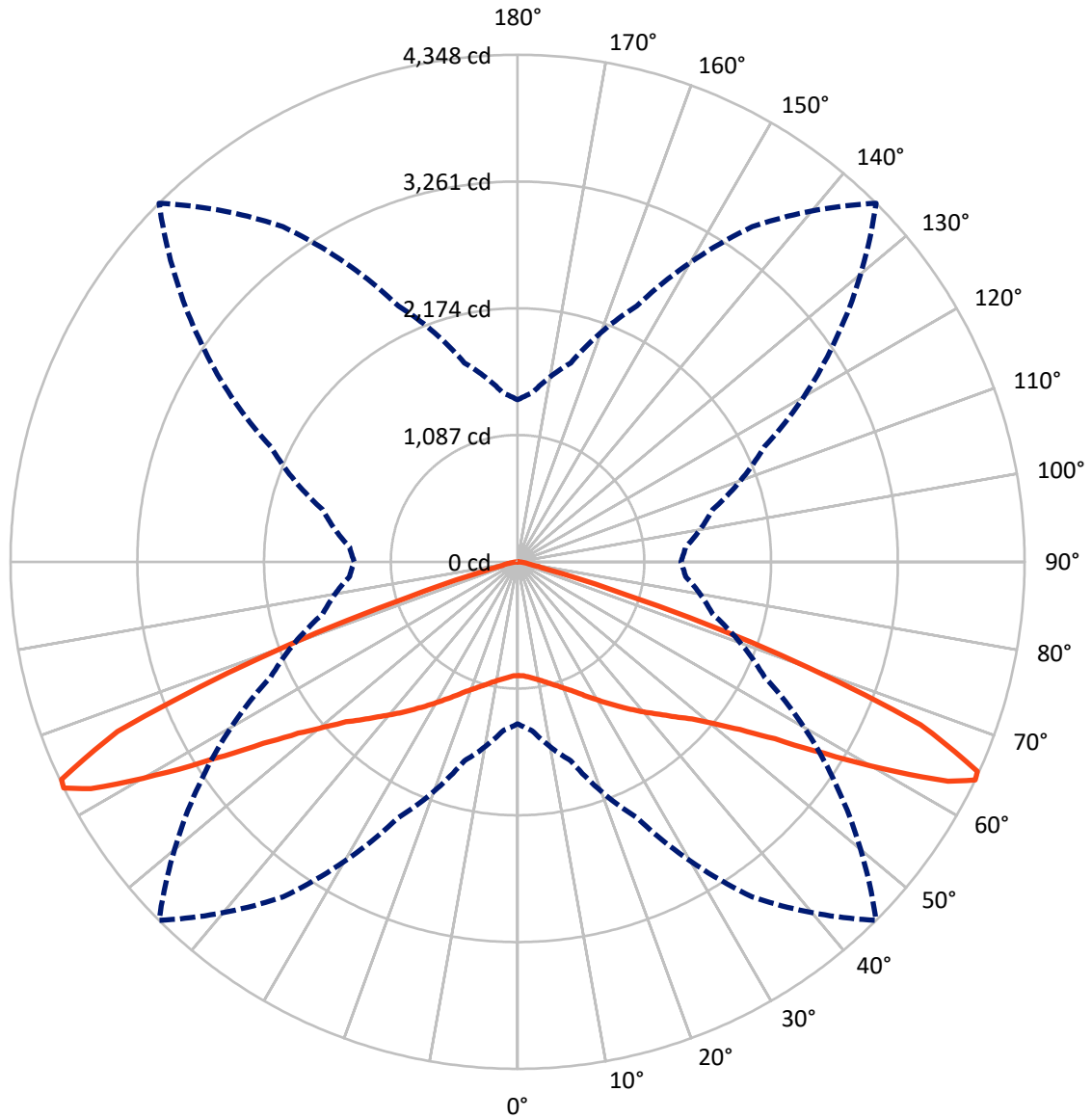
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4036.0	0.0	4036.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4036.0	0.0	4036.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8071.9	0.0	8071.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.8	1.2
10°-20°	309.2	3.8
20°-30°	584.2	7.2
30°-40°	967.6	12.0
40°-50°	1510.6	18.7
50°-60°	2335.3	28.9
60°-70°	2013.7	24.9
70°-80°	228.2	2.8
80°-90°	27.3	0.3
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°	8071.9	100.0
0°-180°	8071.9	100.0

Coefficient of Utilization



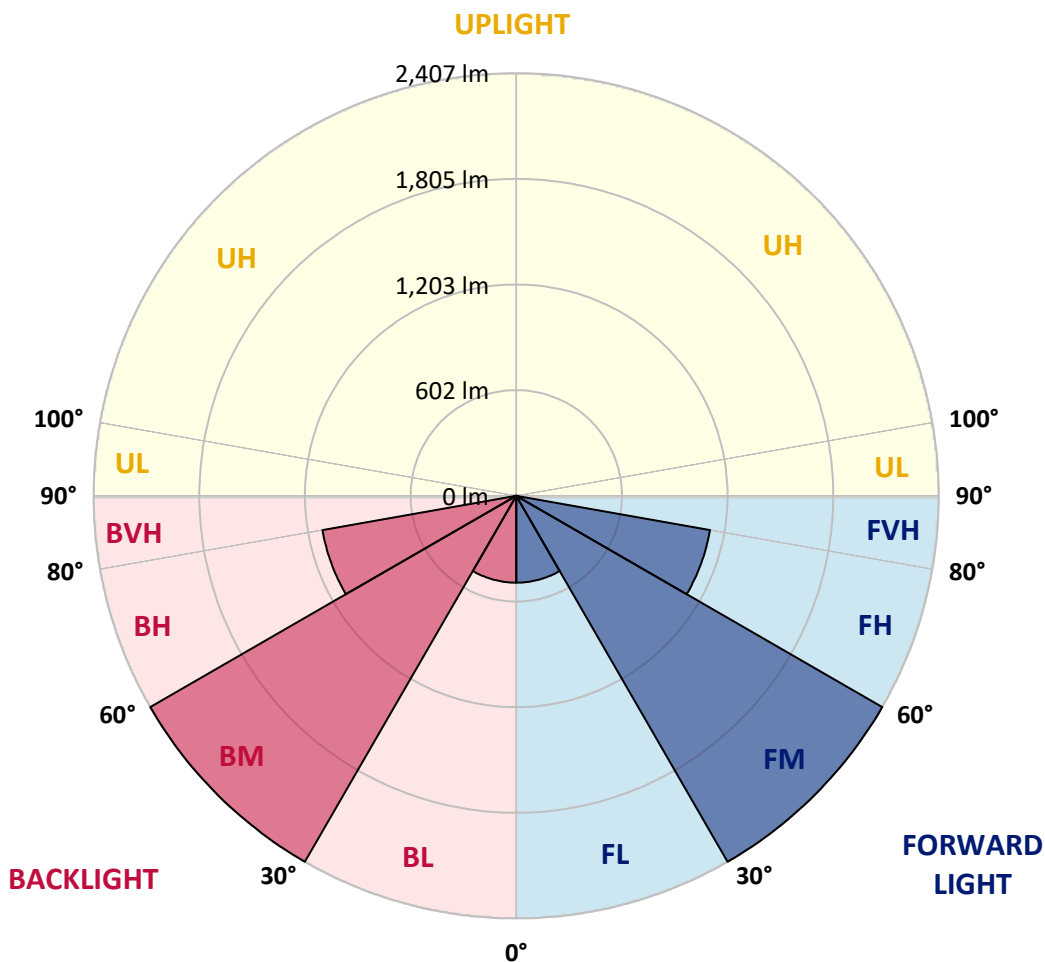
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	494.6	6.1			
FM (30°-60°)	2406.7	29.8			
FH (60°-80°)	1120.9	13.9			G1/1800
FVH (80°-90°)	13.7	0.2			G1/100
BL (0°-30°)	494.6	6.1	B1/500		
BM (30°-60°)	2406.7	29.8	B2/2500		
BH (60°-80°)	1120.9	13.9	B3/2500		G1/1800
BVH (80°-90°)	13.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	975.6	975.6	975.6	975.6	975.6	975.6	975.6	975.6	975.6	975.6	975.6
2.5°	979.5	981.6	979.9	979.5	979.0	979.0	979.0	979.5	981.2	982.5	981.6
5°	991.9	993.6	992.7	992.3	991.9	992.3	991.5	991.0	992.3	992.3	991.9
7.5°	1007.3	1009.4	1008.5	1009.4	1009.8	1010.3	1008.1	1006.4	1006.0	1007.3	1006.4
10°	1028.2	1029.9	1030.3	1030.8	1031.7	1031.2	1028.6	1025.7	1025.2	1024.8	1024.3
12.5°	1051.8	1053.0	1053.4	1055.1	1056.5	1056.9	1053.9	1051.3	1047.0	1047.9	1046.2
15°	1078.2	1080.8	1080.3	1083.0	1086.3	1087.2	1084.2	1079.9	1076.1	1074.0	1072.7
17.5°	1110.7	1112.5	1111.5	1114.2	1118.4	1120.5	1118.0	1112.5	1108.6	1103.9	1101.3
20°	1149.2	1152.2	1153.0	1153.0	1156.9	1159.1	1155.2	1153.5	1147.5	1144.1	1141.9
22.5°	1192.8	1194.1	1196.7	1199.3	1203.1	1202.2	1200.9	1198.3	1192.8	1189.8	1186.4
25°	1242.0	1243.3	1249.6	1255.2	1256.5	1255.7	1253.9	1252.7	1247.5	1240.7	1238.1
27.5°	1299.3	1301.9	1310.4	1315.5	1315.5	1315.9	1312.5	1316.8	1305.7	1297.6	1296.7
30°	1371.1	1372.8	1380.1	1385.2	1382.6	1380.5	1379.7	1383.9	1371.9	1357.4	1354.0
32.5°	1442.1	1448.0	1454.4	1465.6	1456.6	1452.7	1451.9	1454.9	1441.2	1425.0	1420.3
35°	1518.2	1522.5	1534.4	1543.8	1535.7	1526.8	1530.5	1540.0	1523.7	1501.9	1501.1
37.5°	1602.4	1606.2	1621.6	1631.5	1625.5	1610.1	1616.5	1627.6	1611.4	1584.4	1578.9
40°	1690.1	1698.1	1717.4	1727.7	1717.8	1697.3	1709.2	1721.3	1706.7	1675.5	1663.1
42.5°	1788.4	1801.2	1829.0	1834.1	1815.3	1787.5	1808.5	1827.7	1817.4	1781.5	1776.8
45°	1903.4	1911.1	1945.2	1956.4	1930.3	1895.7	1921.8	1956.8	1949.1	1907.6	1898.6
47.5°	2032.0	2039.3	2074.8	2091.5	2058.6	2011.9	2059.0	2104.8	2100.1	2055.6	2051.3
50°	2184.2	2185.9	2235.1	2254.0	2221.0	2180.8	2222.8	2279.6	2260.8	2203.9	2203.1
52.5°	2351.0	2353.1	2415.1	2451.4	2433.1	2387.8	2437.4	2472.0	2424.1	2349.8	2344.1
55°	2495.5	2506.2	2590.9	2687.5	2712.7	2679.8	2694.7	2678.5	2560.5	2456.1	2439.9
57.5°	2554.5	2575.5	2704.2	2884.5	3048.7	3097.5	2982.0	2827.3	2614.8	2467.3	2451.4
60°	2410.4	2433.1	2632.8	2975.2	3394.2	3605.8	3281.3	2852.5	2491.2	2283.9	2259.1
62.5°	1930.3	1936.7	2230.4	2761.8	3595.5	4143.6	3407.4	2637.5	2131.7	1849.9	1840.1
64°	1389.1	1454.9	1766.1	2421.6	3507.5	4348.4	3334.7	2336.0	1731.5	1446.4	1400.2
65°	1038.9	1056.9	1423.6	2067.9	3352.3	4333.0	3193.7	2047.8	1433.9	1106.8	1055.5
67.5°	392.5	394.6	525.5	1030.8	2386.5	3728.1	2437.4	1114.2	604.1	436.9	421.1
70°	162.9	165.8	192.8	346.7	1025.7	2393.7	1175.3	401.9	221.0	179.1	176.6
72.5°	119.3	121.0	129.1	153.9	315.5	982.9	386.5	170.6	129.5	115.9	114.5
75°	93.6	94.4	100.5	113.3	147.1	272.3	160.7	117.2	98.7	88.9	88.1
77.5°	71.4	73.5	77.8	86.4	98.7	129.1	106.5	87.6	76.1	68.0	66.7
80°	49.2	51.7	59.9	63.2	66.3	83.8	72.7	66.3	59.5	49.6	46.6
82.5°	30.4	32.0	40.2	43.1	41.9	47.0	46.6	47.4	42.3	30.8	28.7
85°	15.8	16.7	21.8	22.6	20.9	19.3	24.0	27.8	26.1	17.5	17.1
87.5°	3.4	3.9	4.7	4.3	4.7	4.7	6.0	9.0	9.4	6.0	5.6
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)