

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: P651766

Luminaire Tested: **GALN-SA3A-840-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651766  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3A-840-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7886.9 lumens  
Efficiency: N/A  
Efficacy: 84.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0

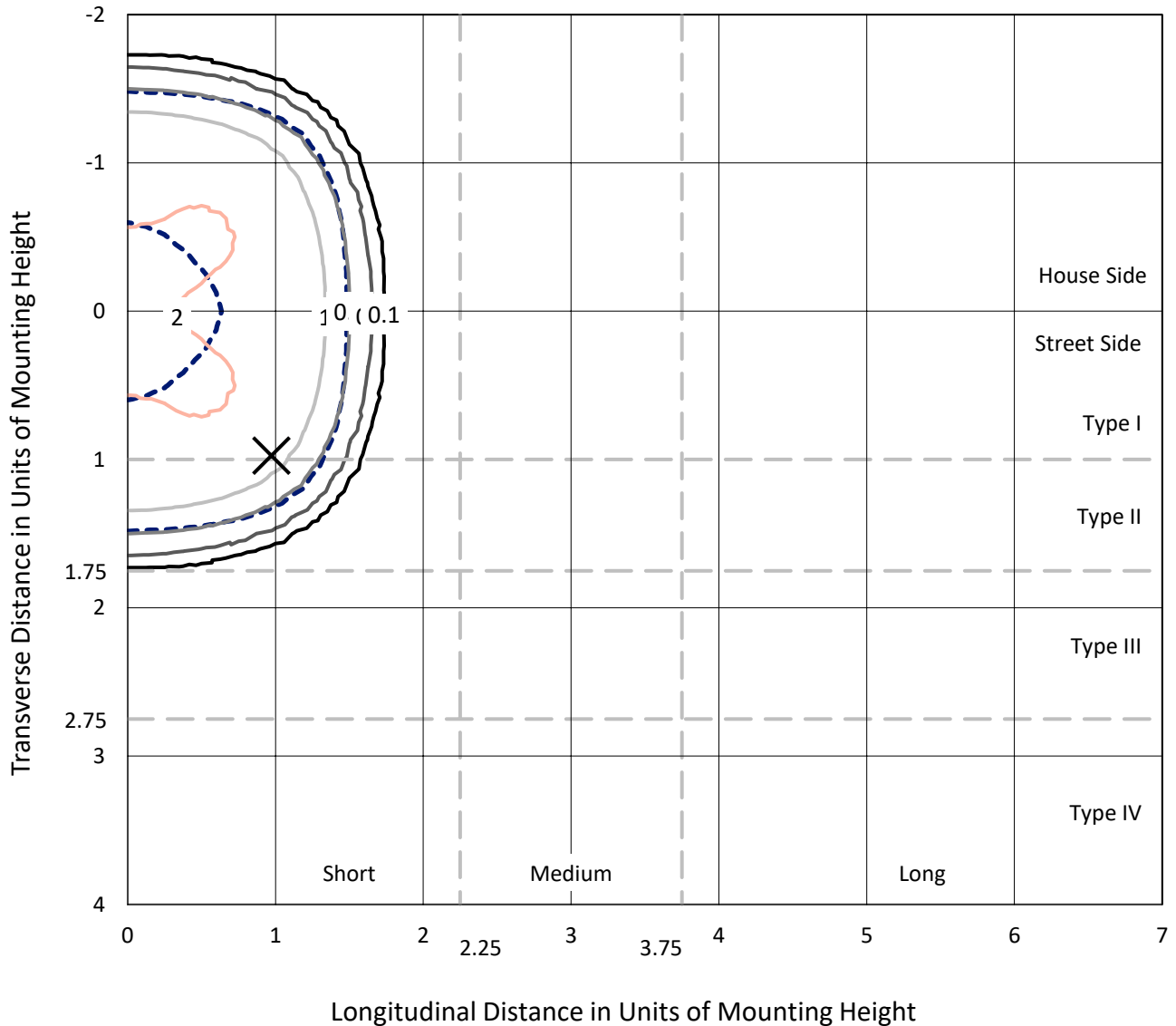
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

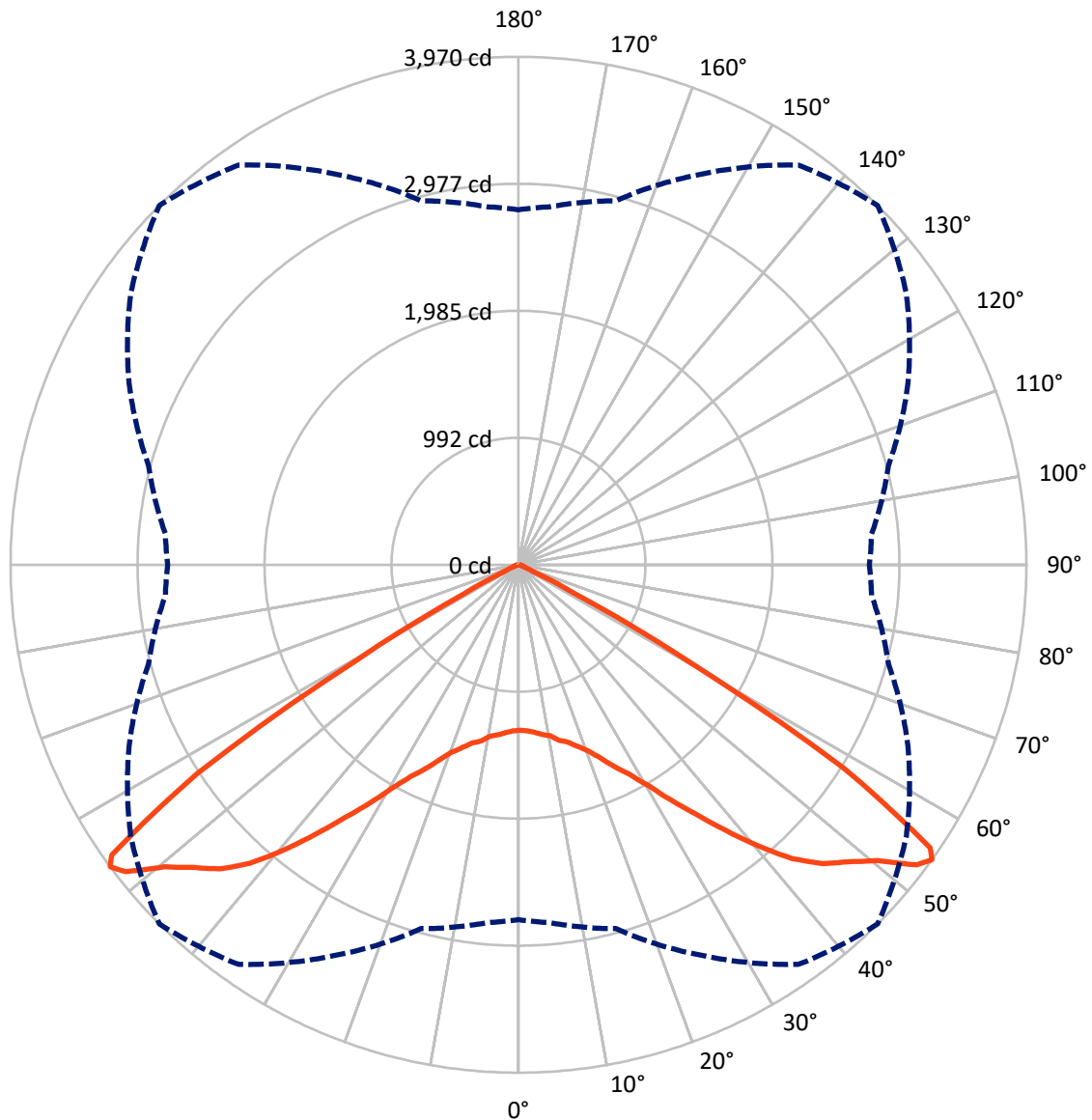
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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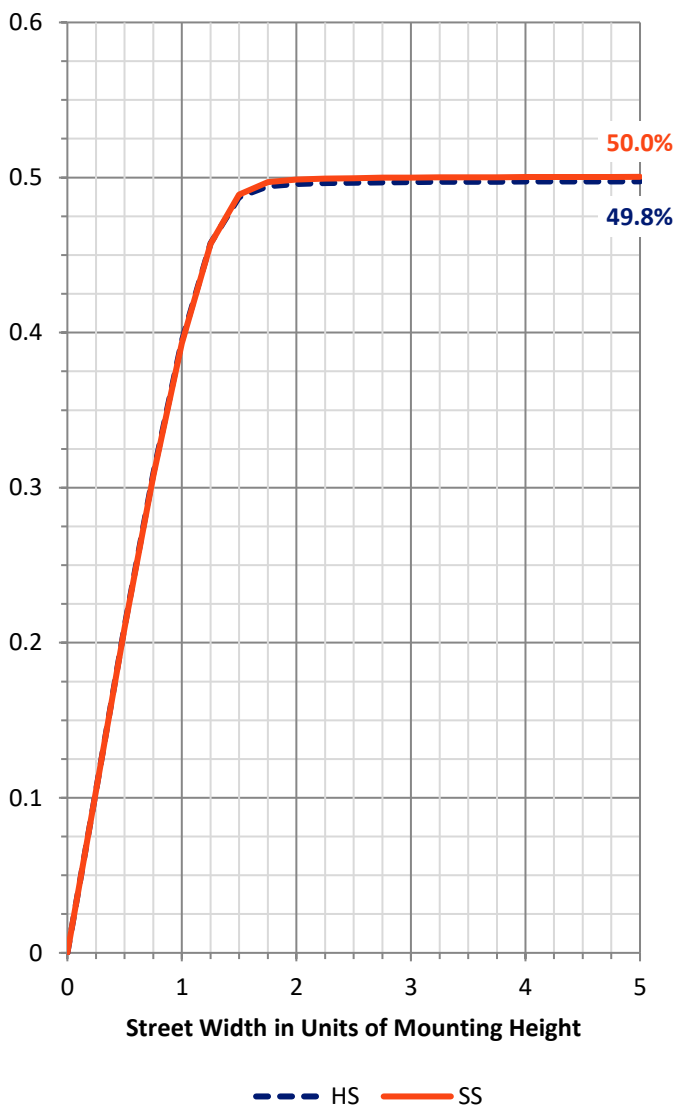
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3943.5	0.0	3943.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3943.5	0.0	3943.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7886.9	0.0	7886.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.6	1.6
10°-20°	409.9	5.2
20°-30°	803.4	10.2
30°-40°	1444.6	18.3
40°-50°	2472.9	31.4
50°-60°	2392.8	30.3
60°-70°	204.8	2.6
70°-80°	24.3	0.3
80°-90°	7.6	0.1
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°	7886.9	100.0
0°-180°	7886.9	100.0

**Coefficient of Utilization**

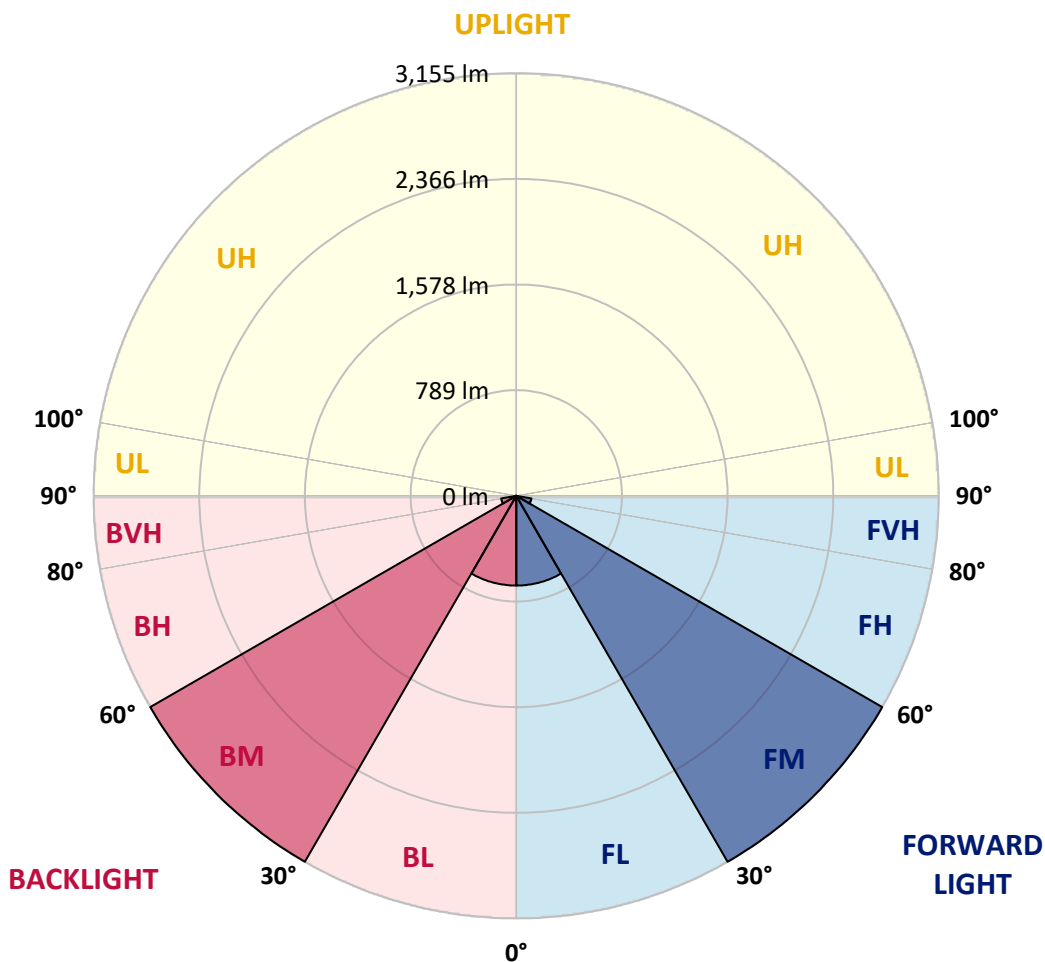


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	669.9	8.5			
FM (30°-60°)	3155.2	40.0			
FH (60°-80°)	114.6	1.5			G0/660
FVH (80°-90°)	3.8	0.0			G0/10
BL (0°-30°)	669.9	8.5	B2/1000		
BM (30°-60°)	3155.2	40.0	B3/5000		
BH (60°-80°)	114.6	1.5	B1/500		G0/660
BVH (80°-90°)	3.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G0**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1293.2	1293.2	1293.2	1293.2	1293.2	1293.2	1293.2	1293.2	1293.2	1293.2	1293.2
2.5°	1299.4	1306.9	1302.0	1305.7	1305.7	1299.4	1303.2	1288.2	1298.2	1290.7	1291.9
5°	1319.4	1318.2	1318.2	1319.4	1314.5	1316.9	1312.0	1306.9	1303.2	1298.2	1313.2
7.5°	1344.4	1344.4	1335.7	1338.2	1335.7	1339.5	1329.5	1319.4	1315.7	1312.0	1309.4
10°	1368.1	1365.7	1361.9	1373.2	1364.4	1359.4	1354.4	1348.2	1334.4	1329.5	1324.4
12.5°	1403.1	1401.9	1396.9	1408.2	1403.1	1408.2	1389.4	1373.2	1370.7	1354.4	1363.2
15°	1444.4	1455.6	1446.9	1446.9	1444.4	1438.1	1430.6	1423.1	1400.7	1394.4	1395.6
17.5°	1498.2	1494.4	1495.6	1495.6	1508.1	1491.8	1476.9	1458.1	1446.9	1443.2	1430.6
20°	1549.4	1554.3	1553.1	1561.8	1569.3	1551.8	1535.6	1533.1	1501.9	1506.9	1489.4
22.5°	1639.3	1635.6	1641.8	1648.0	1643.1	1640.5	1625.6	1606.8	1579.3	1566.9	1564.3
25°	1734.3	1728.0	1716.8	1731.8	1739.3	1750.5	1721.8	1711.8	1669.3	1650.5	1651.8
27.5°	1815.5	1824.2	1836.7	1843.0	1861.7	1857.9	1838.0	1805.5	1773.0	1751.8	1738.0
30°	1926.6	1931.7	1952.9	1961.6	1994.2	2002.9	1971.6	1934.2	1876.7	1849.2	1833.0
32.5°	2029.2	2064.2	2062.9	2106.6	2159.1	2195.3	2139.1	2081.6	2024.1	1991.7	1962.9
35°	2195.3	2189.0	2225.3	2271.5	2356.5	2397.8	2336.6	2270.3	2182.8	2130.3	2107.9
37.5°	2350.3	2352.8	2401.5	2475.2	2572.7	2636.4	2582.6	2474.0	2384.0	2316.5	2285.2
40°	2575.1	2580.2	2630.1	2713.8	2823.8	2892.5	2830.0	2720.1	2600.1	2547.6	2547.6
42.5°	2838.8	2860.1	2892.5	2965.0	3063.7	3140.0	3083.7	2997.5	2876.3	2808.9	2818.8
45°	3109.9	3119.9	3141.2	3248.6	3294.9	3332.4	3279.9	3239.9	3158.7	3076.2	3062.5
47.5°	3363.6	3367.4	3429.8	3463.6	3499.7	3468.5	3502.3	3449.8	3358.6	3278.6	3262.4
50°	3476.0	3469.8	3558.5	3661.0	3688.5	3633.5	3604.7	3569.7	3431.0	3334.8	3292.3
52.5°	3148.7	3185.0	3349.9	3634.7	3849.6	3895.8	3728.4	3567.3	3308.6	3121.2	3092.4
54°	2773.9	2807.6	2943.8	3366.1	3813.4	3969.6	3699.7	3357.4	2992.5	2770.1	2741.3
55°	2402.7	2365.2	2612.7	3043.7	3643.5	3904.6	3586.0	3086.2	2668.9	2465.2	2425.2
57.5°	1300.7	1306.9	1515.7	1922.9	2560.2	2993.7	2643.9	2087.9	1576.9	1348.2	1328.2
60°	412.3	422.4	513.5	777.2	1223.2	1460.6	1252.0	838.4	579.8	464.8	446.1
62.5°	128.7	133.7	146.2	217.4	334.9	478.5	374.8	224.9	167.4	153.7	156.2
65°	78.7	78.7	80.0	84.9	100.0	116.2	112.4	98.7	94.9	92.4	91.2
67.5°	51.2	50.0	52.5	56.3	58.7	60.0	63.7	67.4	66.2	63.7	63.7
70°	31.2	30.0	32.5	37.5	38.8	41.2	45.0	50.0	48.7	46.3	47.5
72.5°	17.5	17.5	18.8	22.5	26.2	28.8	32.5	36.2	37.5	36.2	36.2
75°	6.2	7.5	10.0	13.7	16.2	20.0	23.7	27.5	31.2	28.8	27.5
77.5°	2.5	2.5	5.0	8.7	12.5	16.2	22.5	26.2	28.8	26.2	23.7
80°	1.3	1.3	3.8	7.5	11.3	15.0	18.8	22.5	23.7	21.3	18.8
82.5°	1.3	1.3	3.8	7.5	11.3	13.7	20.0	22.5	25.0	22.5	18.8
85°	0.0	1.3	3.8	7.5	10.0	11.3	11.3	7.5	6.2	3.8	3.8
87.5°	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)