

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: P650779

Luminaire Tested: **GALN-SA3C-840-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650779  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-840-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9207.3 lumens  
Efficiency: N/A  
Efficacy: 57.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0

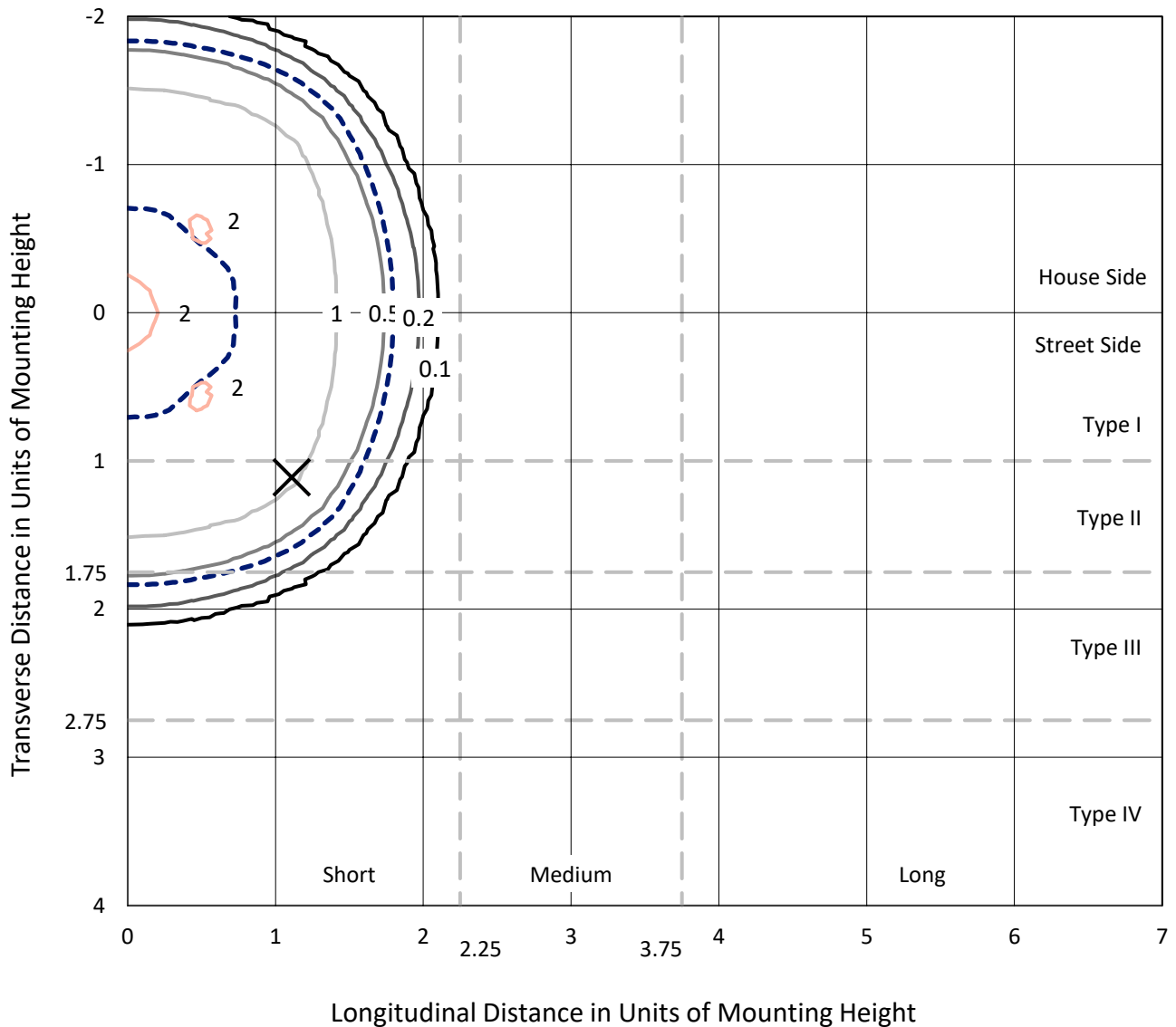
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

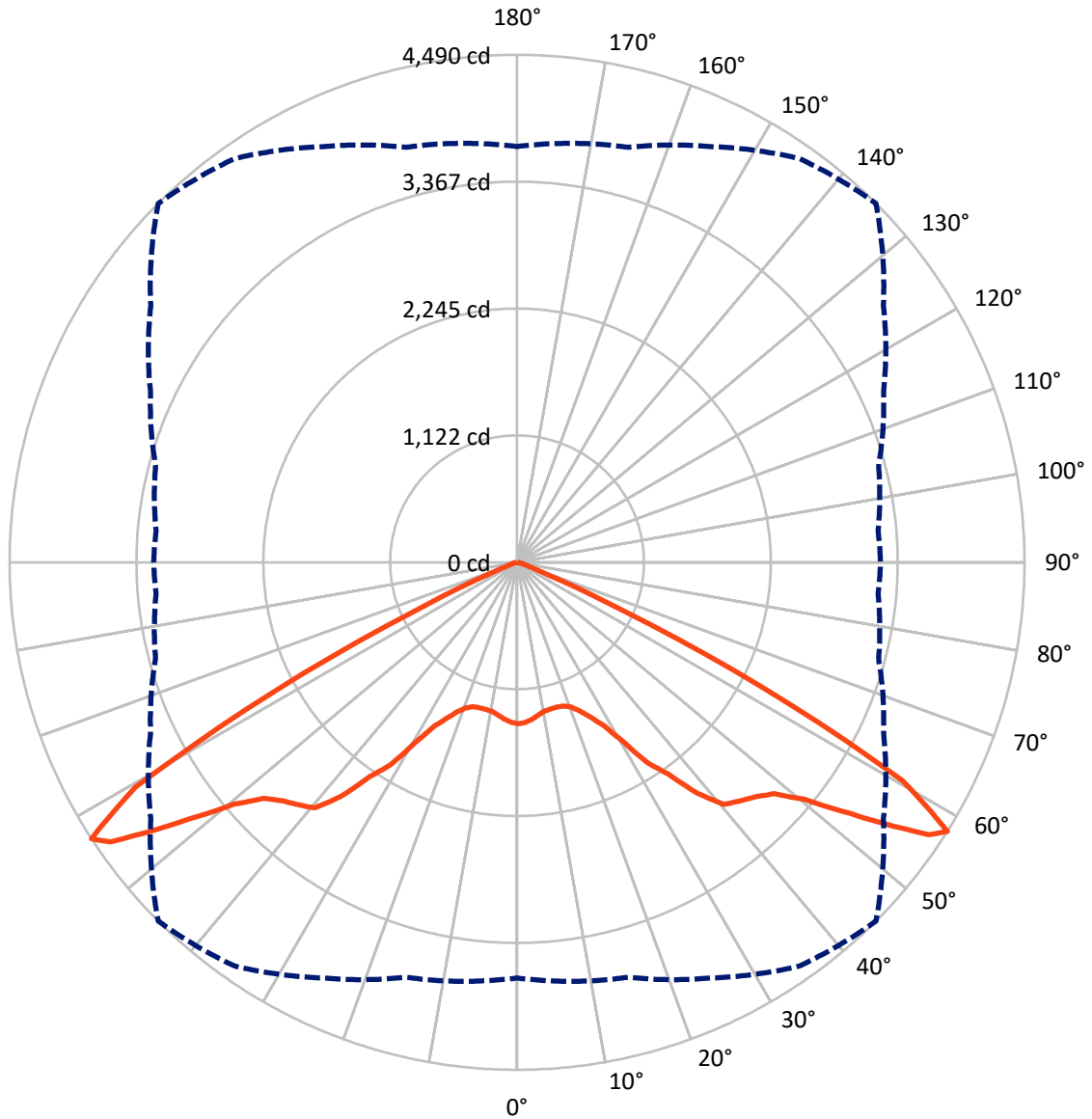
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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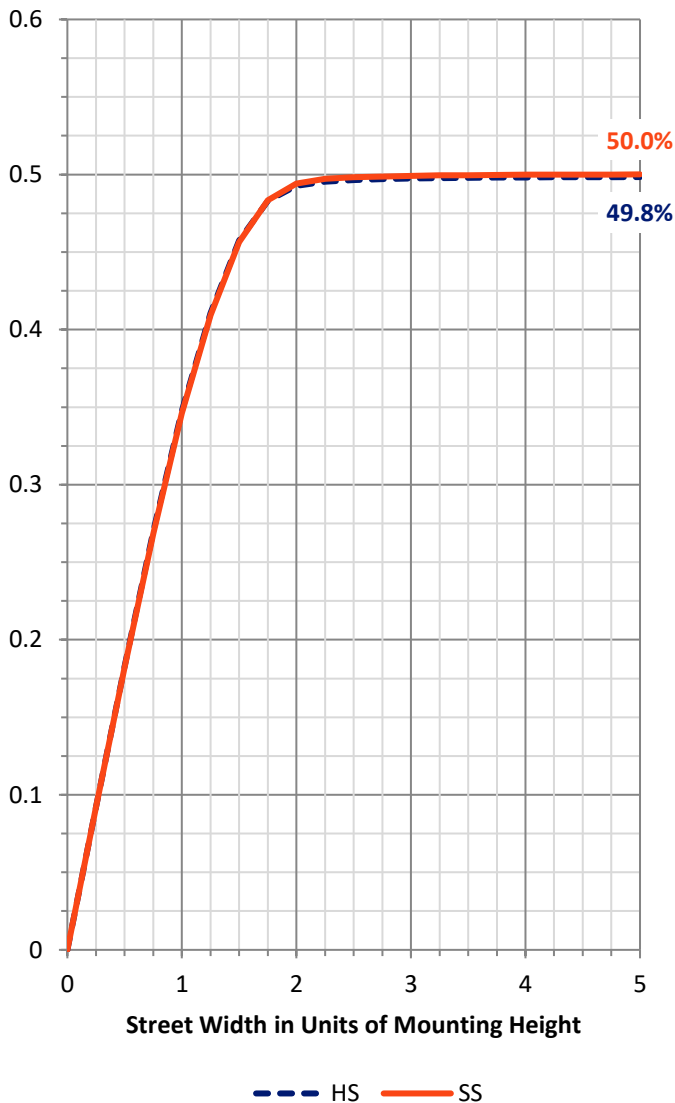
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4603.6	0.0	4603.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4603.6	0.0	4603.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9207.3	0.0	9207.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.2	1.4
10°-20°	379.3	4.1
20°-30°	700.2	7.6
30°-40°	1377.1	15.0
40°-50°	2242.8	24.4
50°-60°	3198.6	34.7
60°-70°	1107.4	12.0
70°-80°	59.4	0.6
80°-90°	11.2	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°	9207.3	100.0
0°-180°	9207.3	100.0

**Coefficient of Utilization**

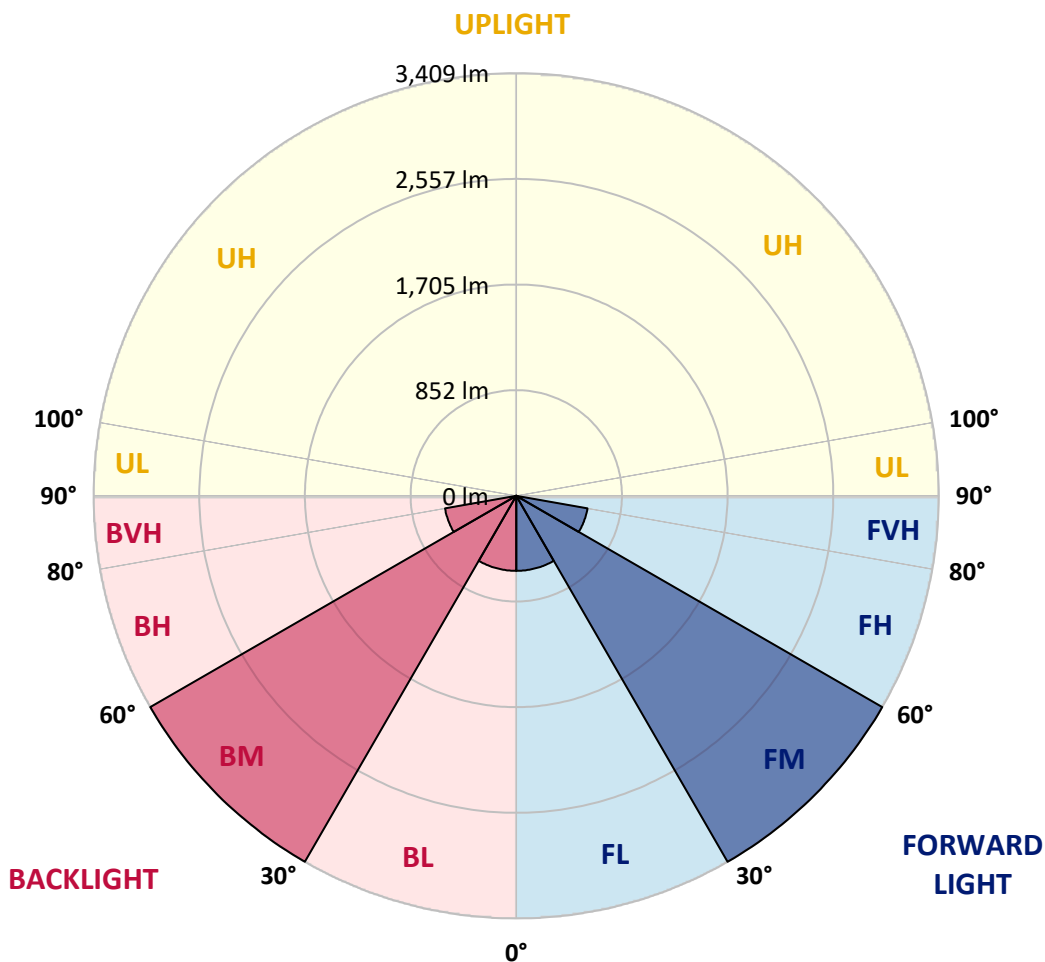


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	605.4	6.6			
FM (30°-60°)	3409.2	37.0			
FH (60°-80°)	583.4	6.3			G0/660
FVH (80°-90°)	5.6	0.1			G0/10
BL (0°-30°)	605.4	6.6	B2/1000		
BM (30°-60°)	3409.2	37.0	B3/5000		
BH (60°-80°)	583.4	6.3	B2/1000		G0/660
BVH (80°-90°)	5.6	0.1			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°	1428.1	1428.1	1428.1	1428.1	1428.1	1428.1	1428.1	1428.1	1428.1	1428.1	1428.1
2.5°	1424.3	1432.0	1422.4	1418.5	1416.7	1416.7	1410.9	1410.9	1408.9	1410.9	1403.2
5°	1401.3	1408.9	1408.9	1407.0	1395.5	1393.6	1387.8	1384.0	1385.9	1378.2	1384.0
7.5°	1378.2	1384.0	1376.3	1374.4	1370.6	1362.8	1361.0	1343.7	1345.6	1345.6	1349.5
10°	1374.4	1372.5	1361.0	1351.4	1339.9	1337.9	1332.1	1328.4	1328.4	1326.4	1332.1
12.5°	1374.4	1364.8	1362.8	1341.7	1322.6	1330.2	1314.9	1305.3	1318.7	1322.6	1330.2
15°	1372.5	1382.1	1349.5	1339.9	1326.4	1328.4	1314.9	1305.3	1313.0	1316.8	1322.6
17.5°	1384.0	1378.2	1368.6	1349.5	1343.7	1336.0	1318.7	1311.0	1311.0	1320.6	1322.6
20°	1414.7	1399.3	1380.2	1370.6	1376.3	1366.7	1345.6	1316.8	1324.5	1332.1	1337.9
22.5°	1443.5	1432.0	1418.5	1412.8	1445.4	1430.0	1393.6	1361.0	1349.5	1362.8	1372.5
25°	1499.2	1499.2	1474.2	1481.9	1518.3	1520.3	1478.1	1420.4	1412.8	1418.5	1422.4
27.5°	1612.4	1618.2	1597.1	1604.7	1620.1	1633.6	1597.1	1549.0	1531.8	1529.9	1535.7
30°	1735.2	1746.8	1744.9	1777.5	1821.7	1829.3	1775.6	1696.9	1645.1	1635.5	1643.1
32.5°	1896.5	1902.3	1898.5	1936.8	2055.8	2111.5	1971.4	1860.0	1790.9	1808.2	1790.9
35°	2199.8	2194.1	2151.8	2159.5	2257.4	2297.7	2163.3	2092.3	2059.7	2094.3	2086.5
37.5°	2460.9	2439.7	2405.2	2455.1	2556.8	2593.3	2453.2	2328.4	2268.9	2326.5	2351.4
40°	2681.6	2627.9	2579.9	2629.8	2766.0	2816.0	2610.5	2508.9	2485.8	2528.0	2581.8
42.5°	2867.8	2833.2	2769.9	2773.8	2863.9	2887.0	2721.9	2662.4	2639.4	2706.6	2733.4
45°	3000.3	2967.6	2908.1	2904.3	2973.4	2958.0	2810.2	2769.9	2783.4	2827.5	2840.9
47.5°	3067.5	3084.7	3050.1	3059.7	3096.2	3059.7	2942.7	2942.7	2912.0	2938.8	2925.4
50°	3261.3	3207.6	3251.7	3251.7	3290.1	3293.9	3176.9	3134.7	3052.1	3006.0	3006.0
52.5°	3487.8	3491.7	3508.9	3572.3	3637.6	3693.3	3526.2	3345.8	3207.6	3148.0	3140.4
55°	3674.0	3712.4	3781.5	3900.6	4088.6	4165.4	3877.5	3555.0	3386.1	3293.9	3274.8
56°	3775.8	3739.3	3858.3	4021.5	4267.1	4367.0	3935.0	3597.2	3411.0	3307.4	3305.5
57.5°	3677.9	3718.1	3800.7	4057.9	4359.3	4489.8	3956.1	3578.0	3311.2	3205.6	3215.2
60°	2904.3	2942.7	3054.0	3342.0	3814.1	3915.9	3347.7	2950.3	2712.3	2560.7	2562.6
62.5°	1643.1	1671.9	1758.3	2025.1	2318.8	2416.7	2086.5	1821.7	1656.6	1572.1	1545.3
65°	604.7	593.2	606.6	742.9	923.3	1005.8	867.7	733.3	646.9	616.2	604.7
67.5°	226.5	209.2	195.8	209.2	263.0	278.4	255.3	213.1	199.7	205.4	209.2
70°	140.1	132.5	105.5	99.8	97.9	96.0	101.8	107.5	122.9	144.0	147.8
72.5°	97.9	92.2	74.8	71.1	67.2	65.3	74.8	82.5	96.0	111.3	113.3
75°	38.3	40.3	38.3	42.2	44.2	46.1	53.7	59.5	65.3	65.3	63.3
77.5°	7.7	7.7	11.5	15.4	19.2	25.0	36.5	42.2	44.2	42.2	36.5
80°	0.0	0.0	3.9	7.7	15.4	21.1	32.6	36.5	40.3	36.5	28.8
82.5°	0.0	0.0	3.9	9.6	15.4	19.2	30.7	38.3	44.2	40.3	30.7
85°	0.0	0.0	3.9	7.7	11.5	13.5	13.5	9.6	9.6	5.7	3.9
87.5°	0.0	0.0	0.0	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)