

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: P650720

Luminaire Tested: **GALN-SA2C-840-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650720  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-840-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12470.4 lumens  
Efficiency: N/A  
Efficacy: 115.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

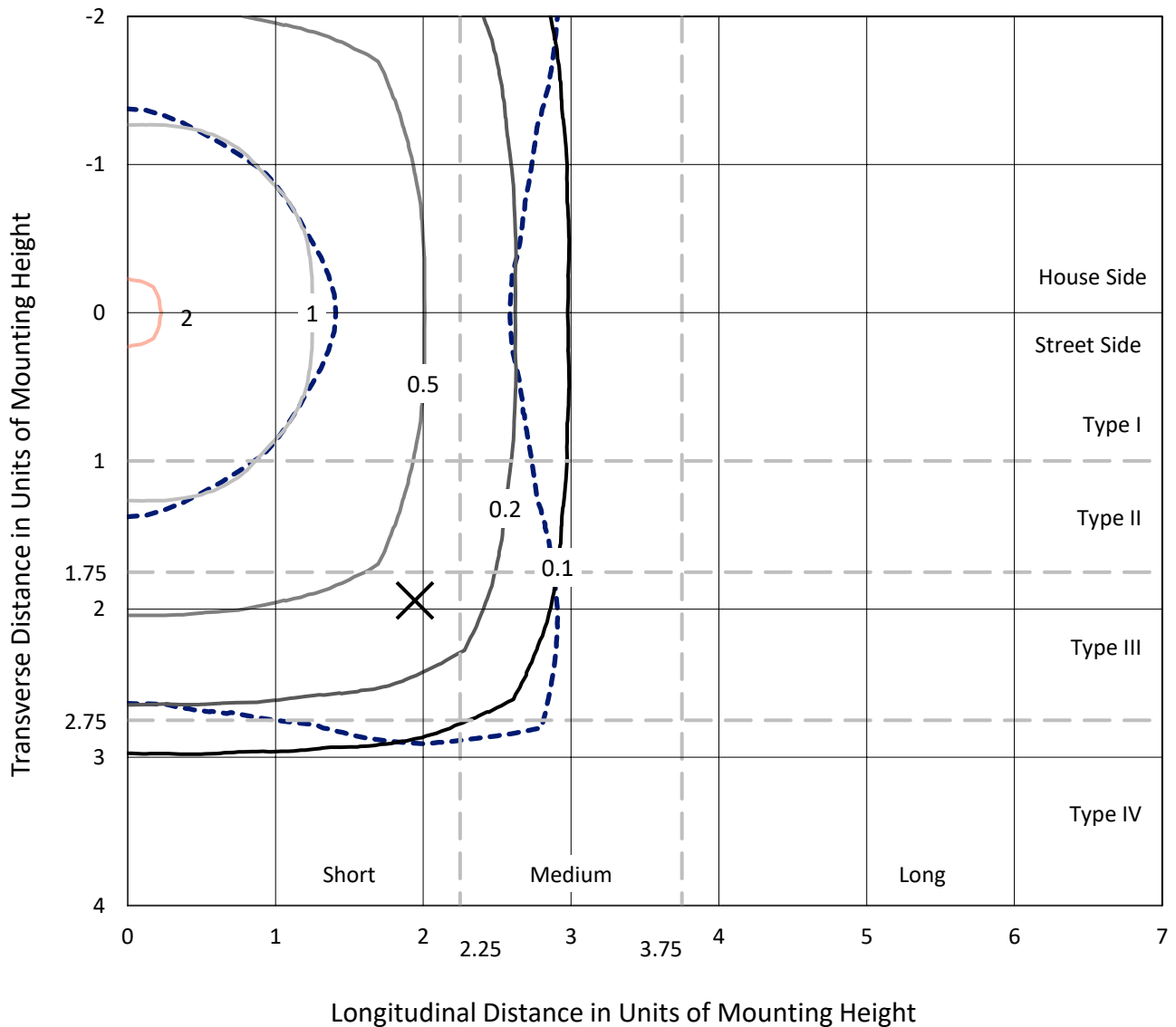
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

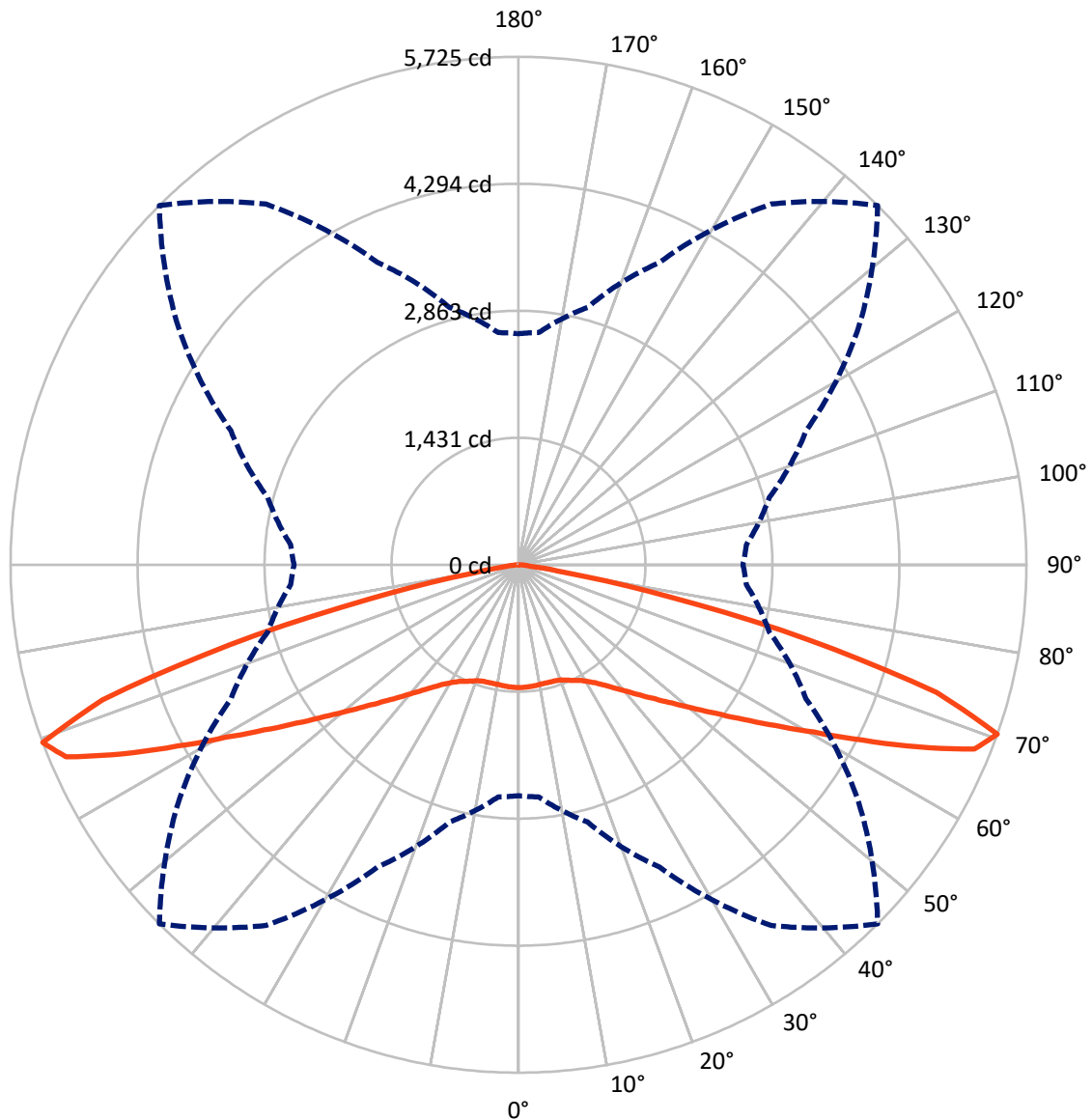
× Max cd  
 - - - 1/2 Max cd



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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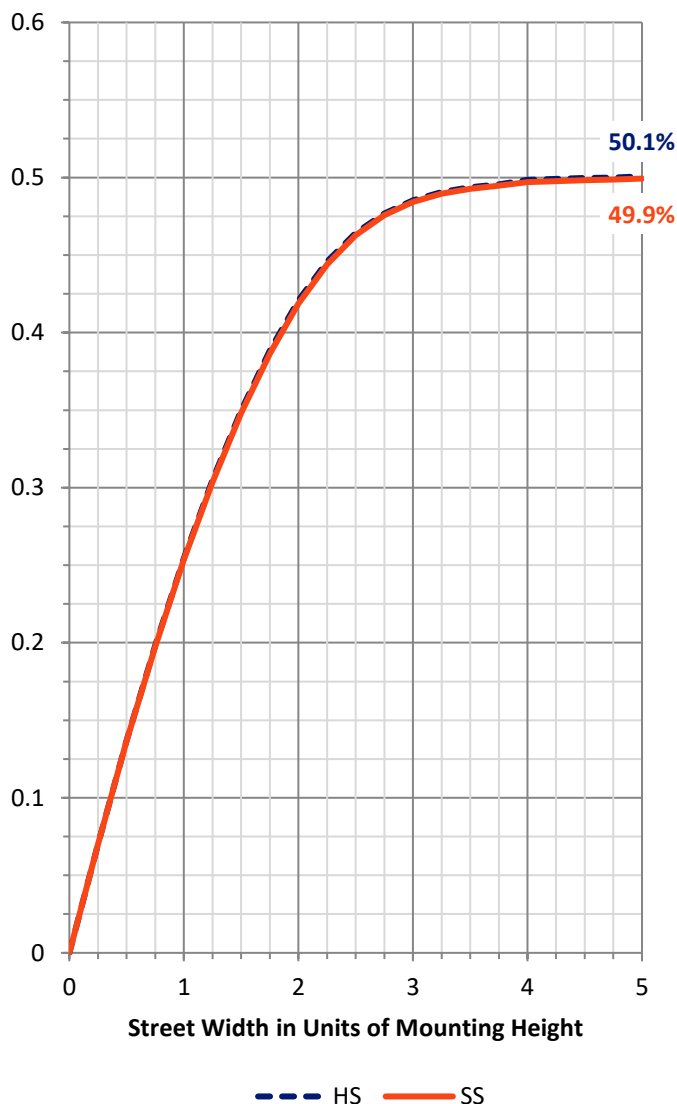
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6235.2	0.0	6235.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6235.2	0.0	6235.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12470.4	0.0	12470.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.3	1.1
10°-20°	385.3	3.1
20°-30°	659.0	5.3
30°-40°	1046.0	8.4
40°-50°	1687.6	13.5
50°-60°	2745.7	22.0
60°-70°	3980.3	31.9
70°-80°	1765.5	14.2
80°-90°	69.6	0.6
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°	12470.4	100.0
0°-180°	12470.4	100.0

**Coefficient of Utilization**



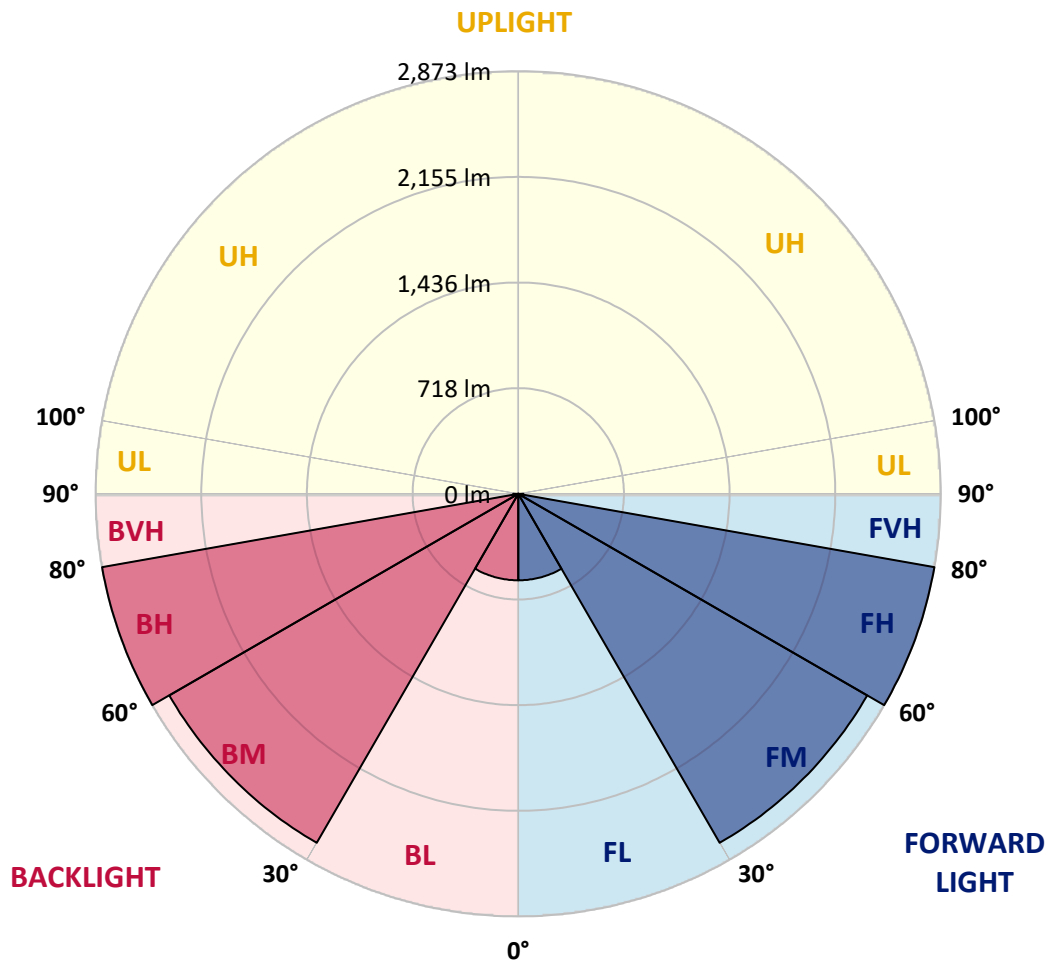
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	587.9	4.7			
FM (30°-60°)	2739.6	22.0			
FH (60°-80°)	2872.9	23.0			G2/5000
FVH (80°-90°)	34.8	0.3			G1/100
BL (0°-30°)	587.9	4.7	B2/1000		
BM (30°-60°)	2739.6	22.0	B3/5000		
BH (60°-80°)	2872.9	23.0	B4/5000		G2/5000
BVH (80°-90°)	34.8	0.3			G1/100
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°	1384.8	1384.8	1384.8	1384.8	1384.8	1384.8	1384.8	1384.8	1384.8	1384.8	1384.8
2.5°	1384.8	1386.1	1384.1	1382.8	1382.2	1382.2	1381.5	1382.2	1386.1	1386.7	1384.8
5°	1380.8	1382.2	1381.5	1380.2	1379.5	1379.5	1378.8	1378.2	1381.5	1382.8	1382.2
7.5°	1375.5	1376.2	1375.5	1375.0	1375.5	1375.5	1372.9	1371.6	1374.3	1374.3	1373.6
10°	1366.4	1367.7	1367.0	1367.7	1369.0	1369.0	1366.4	1363.8	1364.4	1363.1	1363.1
12.5°	1355.2	1357.2	1357.8	1360.5	1363.8	1367.7	1361.7	1355.9	1354.5	1353.8	1353.3
15°	1348.0	1350.0	1352.6	1355.2	1361.1	1369.7	1361.1	1351.9	1349.3	1346.7	1345.3
17.5°	1346.0	1348.6	1352.6	1356.5	1364.4	1372.9	1365.7	1356.5	1350.0	1346.0	1344.7
20°	1351.2	1353.3	1359.1	1366.4	1377.6	1386.1	1378.8	1369.0	1359.1	1353.3	1351.2
22.5°	1361.7	1365.0	1372.3	1385.5	1401.2	1413.7	1403.8	1387.4	1371.6	1363.8	1361.1
25°	1384.8	1387.4	1396.0	1413.7	1432.1	1443.9	1433.4	1414.3	1392.7	1382.2	1378.8
27.5°	1419.6	1423.6	1432.7	1453.8	1468.9	1475.5	1468.2	1455.1	1439.3	1428.2	1425.5
30°	1468.9	1473.5	1487.3	1509.7	1519.5	1523.5	1520.2	1511.6	1500.4	1488.7	1486.0
32.5°	1535.2	1537.9	1553.7	1574.7	1583.9	1585.2	1581.2	1577.4	1559.0	1539.2	1537.9
35°	1609.5	1614.1	1633.2	1658.2	1666.7	1667.4	1659.5	1653.6	1631.9	1616.1	1616.1
37.5°	1708.2	1710.1	1728.5	1756.8	1765.9	1763.3	1759.4	1754.2	1731.1	1710.8	1711.4
40°	1823.8	1827.7	1843.6	1876.4	1876.4	1873.1	1875.7	1871.8	1848.8	1829.1	1829.7
42.5°	1961.1	1963.1	1982.2	2017.1	2014.4	2007.8	2010.4	2005.2	1990.7	1968.4	1960.5
45°	2107.7	2115.6	2148.5	2182.0	2176.8	2155.7	2166.2	2164.9	2151.8	2118.2	2120.2
47.5°	2284.5	2297.7	2329.2	2369.3	2363.4	2330.5	2342.4	2350.3	2331.8	2295.0	2288.4
50°	2483.6	2492.2	2538.9	2576.3	2571.1	2536.2	2563.2	2564.5	2518.5	2466.6	2466.6
52.5°	2695.9	2704.5	2767.6	2826.1	2829.4	2778.7	2800.4	2799.1	2724.2	2655.9	2642.7
55°	2933.8	2937.8	3019.3	3105.4	3123.8	3074.5	3077.1	3050.8	2953.6	2874.0	2866.8
57.5°	3179.7	3194.1	3284.2	3395.9	3450.5	3420.2	3406.4	3336.1	3242.1	3150.7	3146.1
60°	3451.7	3452.4	3569.4	3701.5	3811.9	3832.3	3775.8	3681.8	3560.2	3439.3	3434.0
62.5°	3640.4	3668.6	3816.5	4040.0	4237.8	4352.2	4203.0	4005.8	3766.6	3571.4	3551.6
65°	3679.1	3698.2	3923.6	4302.2	4706.4	4952.8	4607.8	4188.5	3780.4	3520.1	3507.0
67.5°	3365.7	3386.0	3689.6	4270.7	5035.0	5540.4	4870.7	4100.5	3546.4	3224.3	3198.7
70°	2603.2	2626.3	3001.5	3759.4	4962.1	5725.1	4683.4	3576.6	2924.7	2577.0	2530.3
72.5°	1384.1	1468.9	1789.6	2580.3	4027.5	4929.2	3840.2	2609.9	1886.2	1541.9	1480.1
75°	505.4	516.0	694.7	1144.3	2343.0	3380.1	2433.0	1244.8	715.7	552.7	524.4
77.5°	209.0	208.3	228.8	345.7	851.1	1731.1	949.7	365.4	228.1	211.0	208.3
80°	123.5	123.5	136.1	143.9	224.1	522.5	250.4	163.0	136.7	124.9	126.8
82.5°	55.2	58.5	86.1	90.7	108.4	143.3	120.9	103.9	89.4	61.8	55.8
85°	30.2	26.3	45.3	47.3	51.9	53.2	57.2	56.5	51.9	30.2	30.9
87.5°	5.9	7.2	13.1	9.8	11.2	9.8	13.1	18.4	19.1	10.5	8.6
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)