

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: P652042

Luminaire Tested: **GALN-SA8A-840-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652042  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8A-840-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27973.3 lumens  
Efficiency: N/A  
Efficacy: 114.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

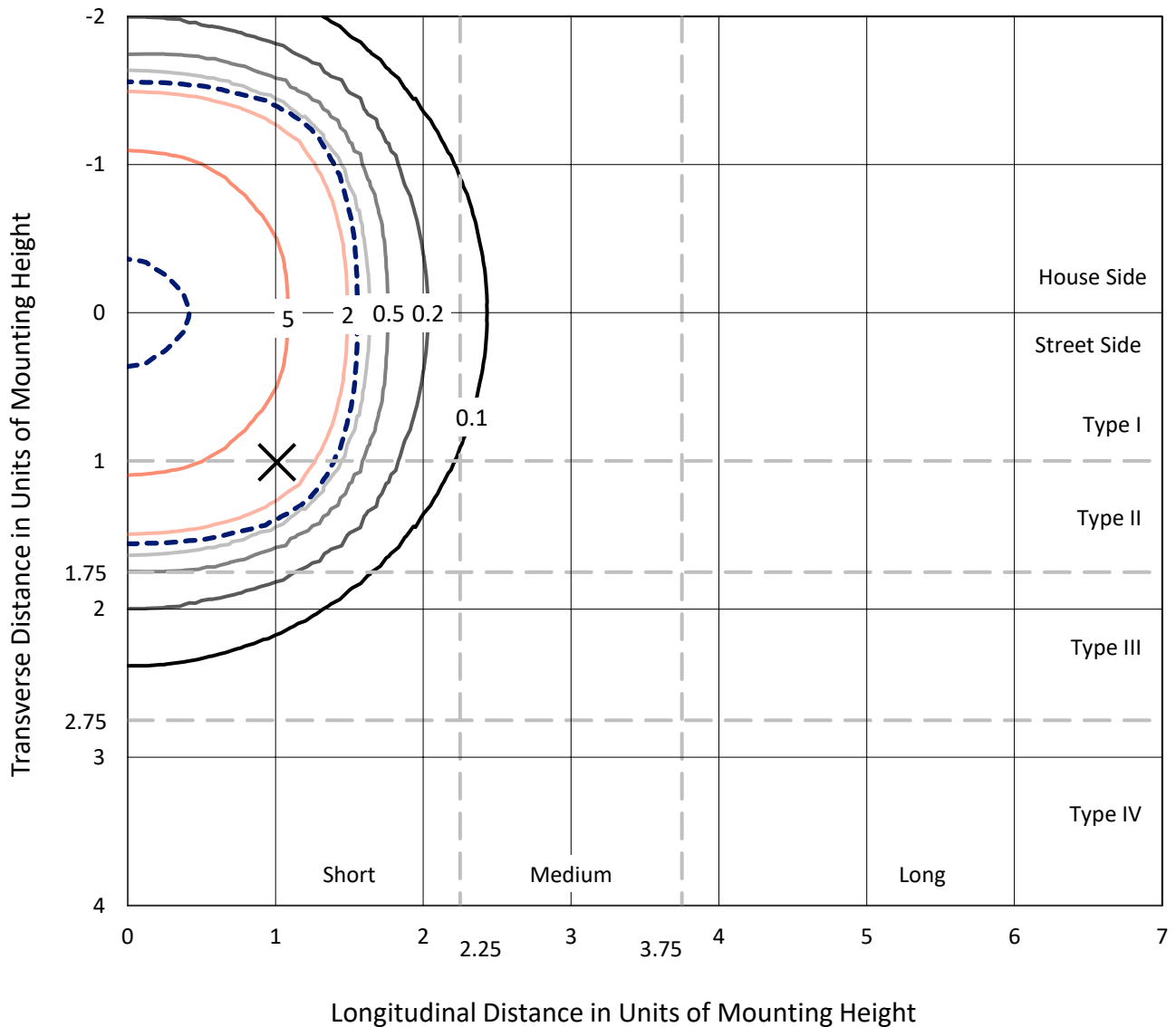
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P652042  
 CATALOG NUMBER: GALN-SA8A-840-U-5NQ-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

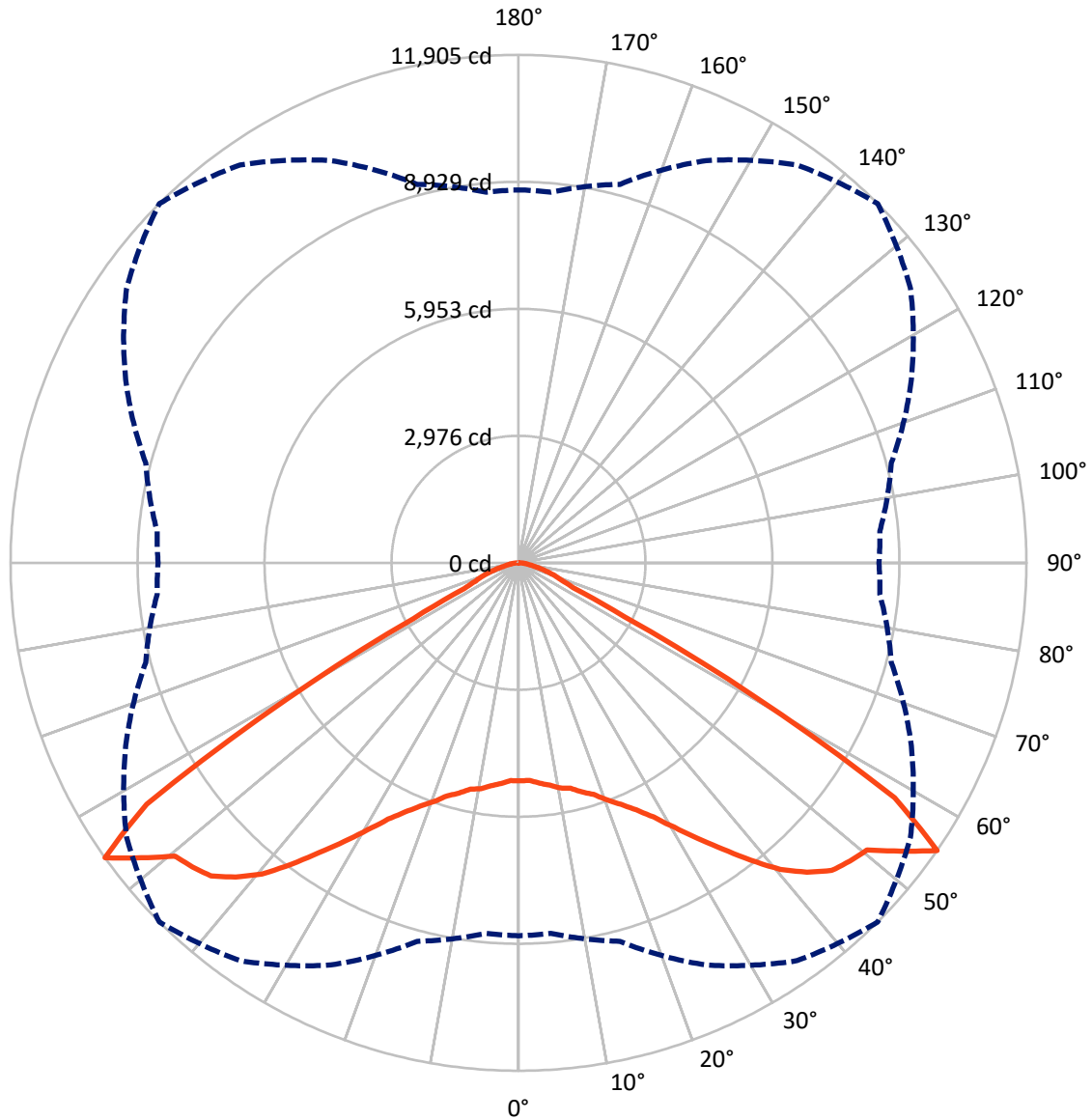
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc  
 Type V - Short - N/A

REPORT NUMBER: P652042  
CATALOG NUMBER: GALN-SA8A-840-U-5NQ-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P652042  
 CATALOG NUMBER: GALN-SA8A-840-U-5NQ-GRSWH

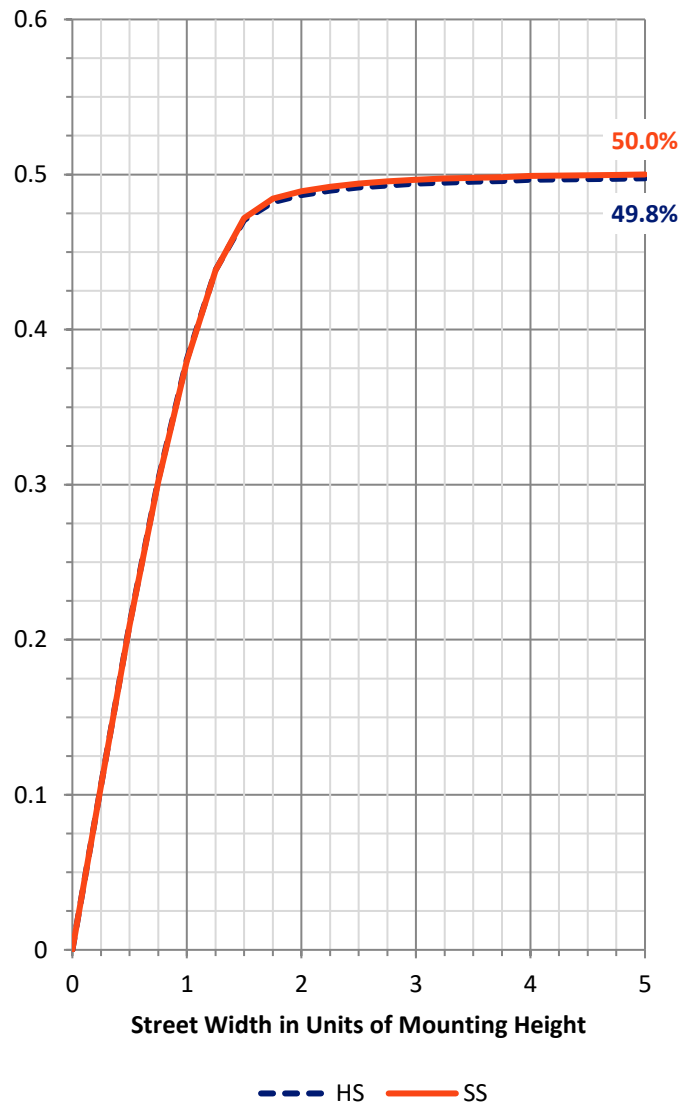
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13986.7	0.0	13986.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13986.7	0.0	13986.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	27973.3	0.0	27973.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	499.0	1.8
10°-20°	1580.9	5.7
20°-30°	2948.0	10.5
30°-40°	4935.8	17.6
40°-50°	7680.6	27.5
50°-60°	7974.8	28.5
60°-70°	1691.2	6.0
70°-80°	557.0	2.0
80°-90°	106.1	0.4
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°	27973.3	100.0
0°-180°	27973.3	100.0

**Coefficient of Utilization**



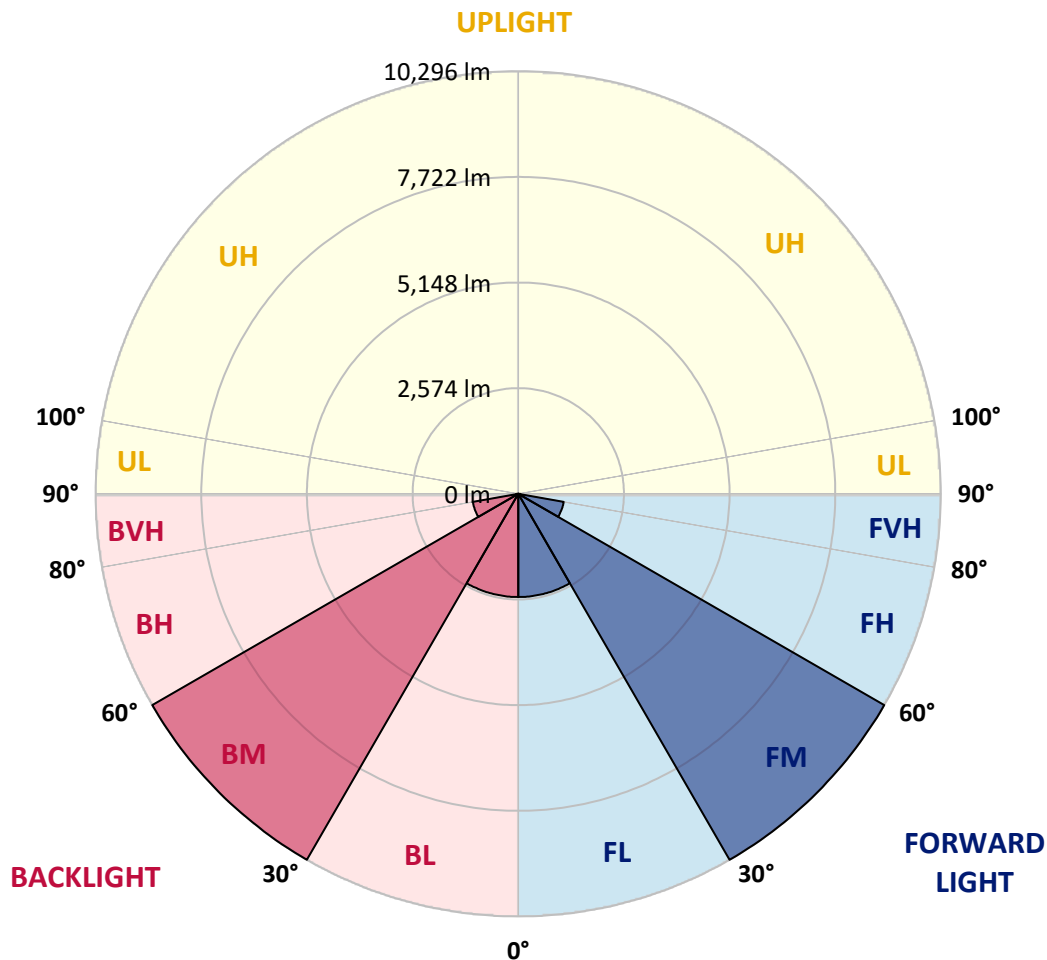
REPORT NUMBER: P652042  
 CATALOG NUMBER: GALN-SA8A-840-U-5NQ-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2513.9	9.0			
FM (30°-60°)	10295.6	36.8			
FH (60°-80°)	1124.1	4.0			G1/1800
FVH (80°-90°)	53.0	0.2			G1/100
BL (0°-30°)	2513.9	9.0	B4/5000		
BM (30°-60°)	10295.6	36.8	B5		
BH (60°-80°)	1124.1	4.0	B3/2500		G1/1800
BVH (80°-90°)	53.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**

Type V Short





REPORT NUMBER: P652042

CATALOG NUMBER: GALN-SA8A-840-U-5NQ-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5107.5	5107.5	5107.5	5107.5	5107.5	5107.5	5107.5	5107.5	5107.5	5107.5	5107.5
2.5°	5168.4	5144.7	5104.1	5134.6	5158.2	5107.5	5127.8	5137.9	5131.2	5104.1	5114.3
5°	5242.7	5229.2	5195.4	5219.1	5188.6	5188.6	5168.4	5141.3	5181.9	5175.1	5192.0
7.5°	5242.7	5225.8	5293.4	5249.5	5263.0	5263.0	5229.2	5202.2	5222.4	5192.0	5175.1
10°	5347.5	5371.1	5340.8	5350.9	5344.1	5367.8	5317.1	5300.2	5283.2	5273.2	5252.9
12.5°	5472.6	5455.7	5465.8	5459.1	5482.7	5421.8	5391.5	5354.3	5384.7	5340.8	5371.1
15°	5574.0	5563.8	5574.0	5601.1	5577.3	5574.0	5519.9	5482.7	5435.4	5445.6	5398.2
17.5°	5712.6	5702.4	5705.8	5729.5	5726.1	5709.2	5668.6	5597.6	5580.7	5553.7	5523.3
20°	5918.8	5901.9	5895.1	5905.2	5922.2	5935.7	5854.5	5827.5	5770.0	5726.1	5675.4
22.5°	6094.6	6087.7	6114.8	6070.8	6108.1	6148.6	6070.8	6057.4	5915.4	5891.7	5837.6
25°	6337.9	6327.8	6310.9	6375.1	6419.0	6415.7	6341.3	6267.0	6158.7	6131.7	6131.7
27.5°	6594.8	6537.3	6625.2	6642.1	6719.8	6743.6	6679.3	6571.2	6469.7	6412.3	6425.8
30°	6916.0	6861.9	6882.2	7003.8	7105.2	7193.1	7030.8	6872.0	6730.0	6628.6	6611.7
32.5°	7237.1	7183.0	7243.8	7362.1	7565.0	7696.7	7537.9	7260.7	7095.1	6946.3	6976.8
35°	7497.3	7537.9	7635.9	7815.1	8024.7	8237.6	7984.1	7771.1	7534.5	7368.8	7392.6
37.5°	7916.5	8041.6	8119.3	8325.5	8622.9	8842.7	8579.0	8301.8	8048.3	7832.0	7757.6
40°	8464.1	8548.6	8636.5	8879.9	9231.4	9451.1	9201.0	8839.2	8589.1	8366.0	8355.9
42.5°	9065.7	9146.9	9238.1	9535.6	9745.2	9910.8	9680.9	9488.2	9211.1	9035.4	9025.2
45°	9765.4	9708.0	9809.4	10005.5	10181.2	10289.4	10140.7	10046.0	9846.6	9684.4	9667.5
47.5°	10231.9	10181.2	10363.7	10539.5	10566.6	10448.2	10478.7	10566.6	10357.0	10090.0	10174.5
50°	10502.3	10502.3	10624.0	10786.2	10735.6	10583.5	10823.5	10830.2	10620.7	10384.1	10384.1
52.5°	10032.5	10137.2	10482.1	11012.7	11181.8	11225.8	11171.6	10941.7	10394.2	9910.8	9887.1
55°	8741.3	8717.6	9184.1	10401.0	11384.6	11905.1	11215.6	10157.6	9045.5	8501.2	8447.2
57.5°	5685.5	5712.6	6408.9	7649.5	9424.1	10394.2	9231.4	7744.1	6408.9	5658.5	5729.5
60°	2558.8	2650.1	3072.6	3998.8	5523.3	6314.2	5536.8	4201.6	3224.7	2798.8	2836.0
62.5°	1470.4	1487.3	1504.2	1784.8	2352.6	2781.9	2443.9	1886.2	1663.1	1588.7	1588.7
65°	1240.6	1230.4	1233.7	1257.5	1318.3	1406.2	1369.0	1318.3	1325.1	1318.3	1308.2
67.5°	1054.6	1068.2	1058.0	1074.9	1078.3	1091.8	1115.5	1135.8	1139.1	1145.9	1139.1
70°	865.3	868.8	875.5	889.0	892.4	902.6	936.3	953.2	963.4	963.4	976.9
72.5°	662.5	659.2	665.9	679.4	696.3	699.7	730.2	753.8	767.3	750.4	753.8
75°	436.1	439.4	449.6	459.7	483.4	507.0	517.2	540.8	544.2	550.9	534.0
77.5°	260.3	267.0	277.2	297.5	317.7	338.0	361.7	378.6	385.3	378.6	358.3
80°	169.0	169.0	182.5	199.4	223.1	240.0	253.5	267.0	277.2	267.0	260.3
82.5°	104.8	104.8	121.7	142.0	158.9	169.0	189.3	206.2	216.3	209.6	199.4
85°	54.1	57.4	71.0	87.9	101.4	108.2	104.8	94.6	84.5	81.2	74.3
87.5°	16.9	16.9	20.3	20.3	16.9	16.9	20.3	16.9	20.3	20.3	20.3
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)