

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: P651105

Luminaire Tested: **GALN-SA9C-840-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651105  
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-SA9C-840-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 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: 56217.5 lumens  
Efficiency: N/A  
Efficacy: 116.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

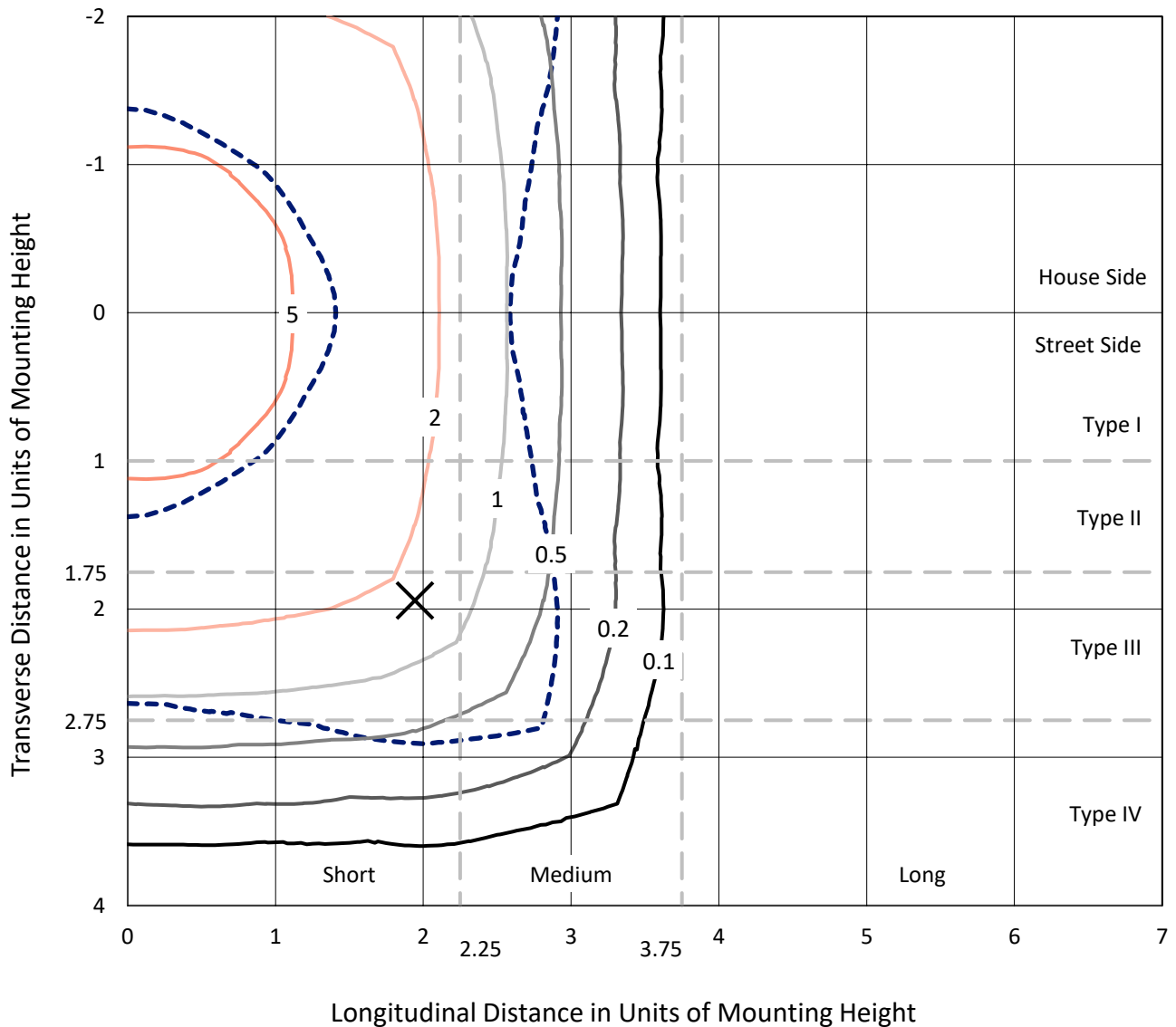
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P651105  
 CATALOG NUMBER: GALN-SA9C-840-U-5MQ

### Iso-Footcandle Lines of Horizontal Illumination

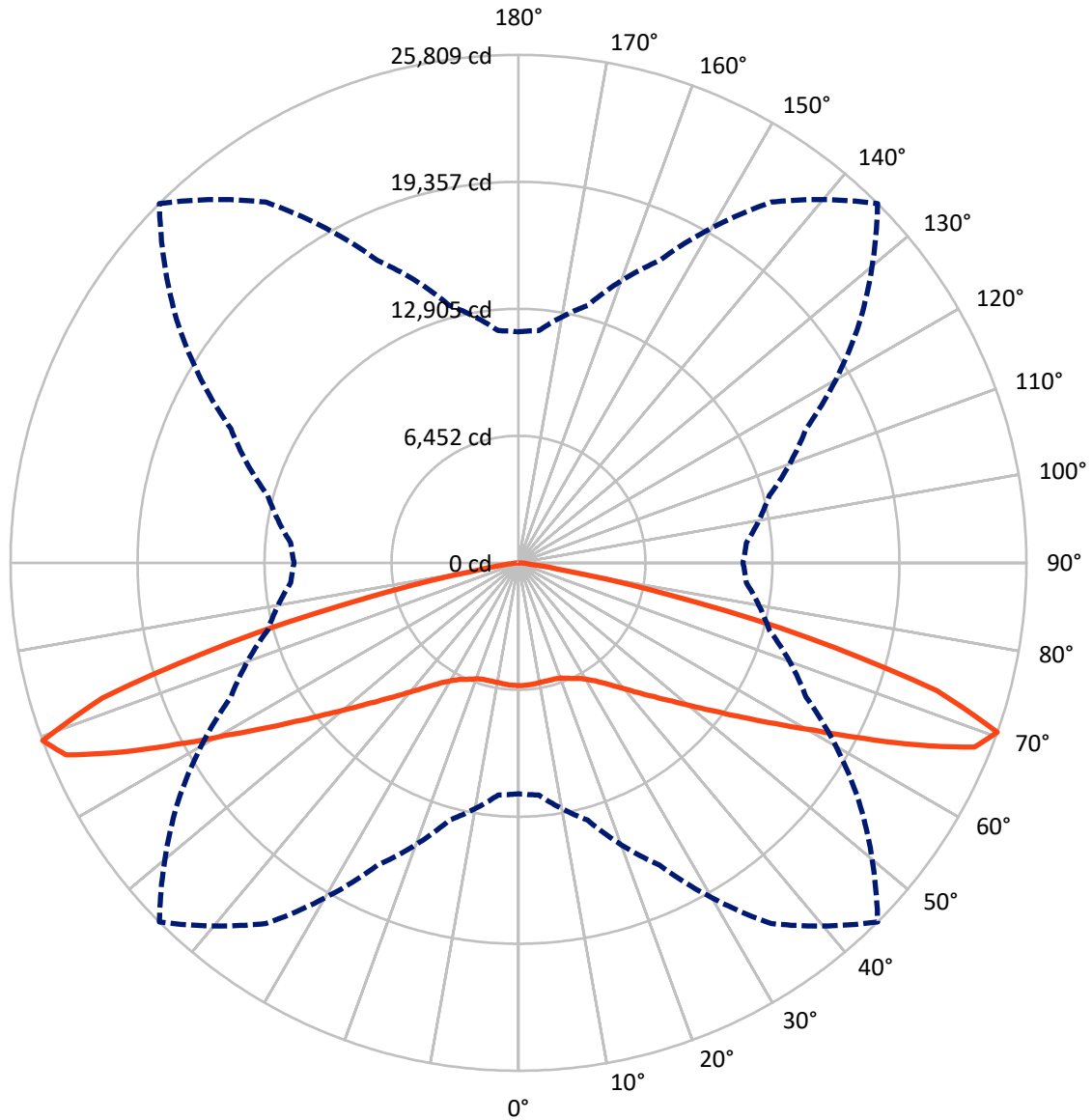
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc  
 Type V - Short - N/A

REPORT NUMBER: P651105  
CATALOG NUMBER: GALN-SA9C-840-U-5MQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P651105  
 CATALOG NUMBER: GALN-SA9C-840-U-5MQ

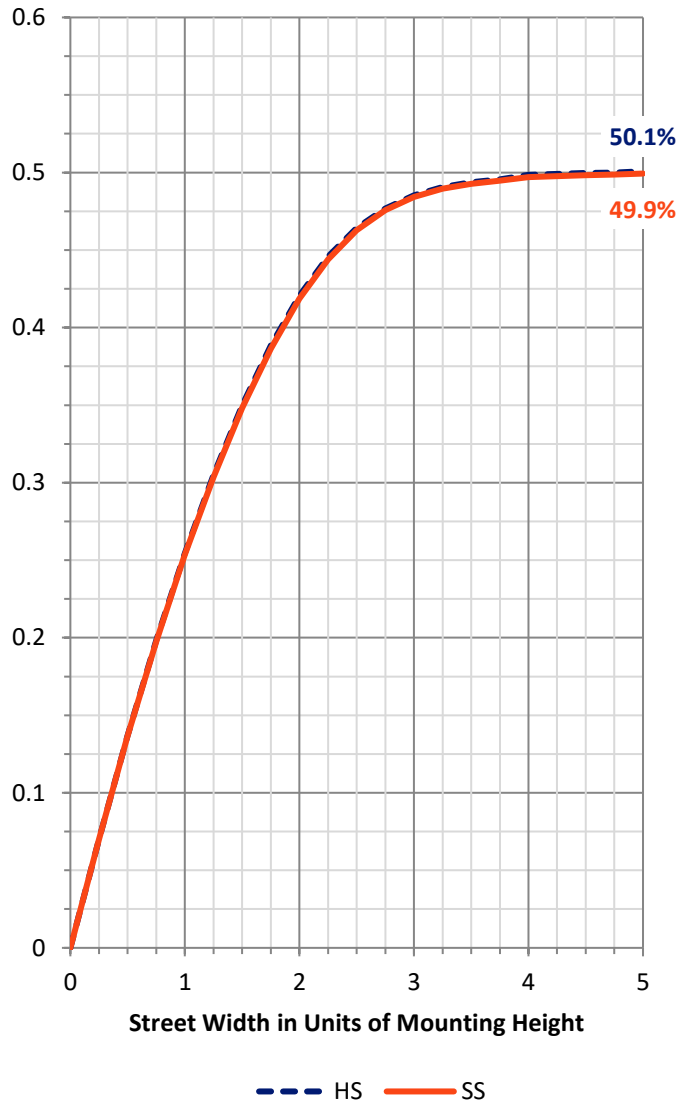
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	28108.7	0.0	28108.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	28108.7	0.0	28108.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	56217.5	0.0	56217.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	592.0	1.1
10°-20°	1737.1	3.1
20°-30°	2971.0	5.3
30°-40°	4715.7	8.4
40°-50°	7607.6	13.5
50°-60°	12377.8	22.0
60°-70°	17943.3	31.9
70°-80°	7959.0	14.2
80°-90°	313.9	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°	56217.5	100.0
0°-180°	56217.5	100.0

**Coefficient of Utilization**



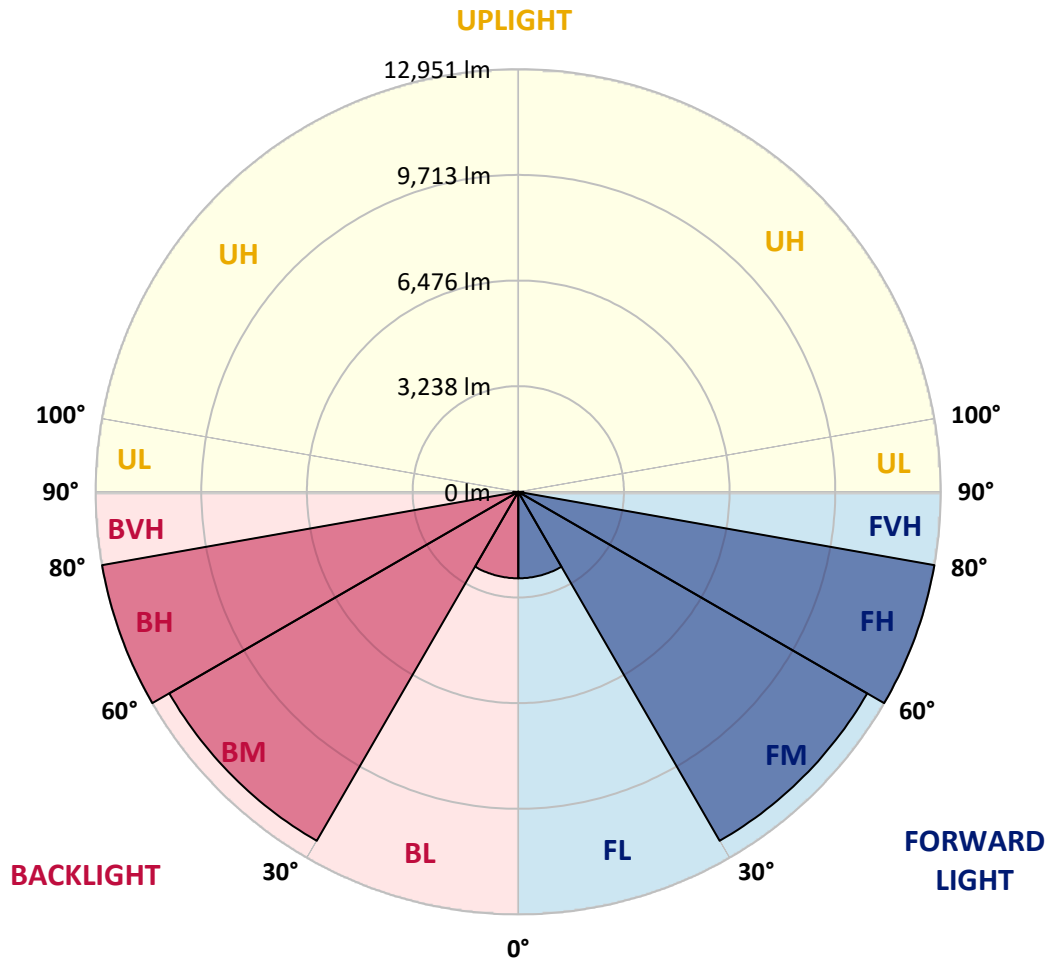
REPORT NUMBER: P651105  
 CATALOG NUMBER: GALN-SA9C-840-U-5MQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2650.1	4.7			
FM (30°-60°)	12350.5	22.0			
FH (60°-80°)	12951.2	23.0			G5
FVH (80°-90°)	157.0	0.3			G2/225
BL (0°-30°)	2650.1	4.7	B4/5000		
BM (30°-60°)	12350.5	22.0	B5		
BH (60°-80°)	12951.2	23.0	B5		G5
BVH (80°-90°)	157.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type V Short





REPORT NUMBER: P651105  
 CATALOG NUMBER: GALN-SA9C-840-U-5MQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6242.7	6242.7	6242.7	6242.7	6242.7	6242.7	6242.7	6242.7	6242.7	6242.7	6242.7
2.5°	6242.7	6248.6	6239.7	6233.8	6230.8	6230.8	6227.9	6230.8	6248.6	6251.6	6242.7
5°	6224.9	6230.8	6227.9	6222.0	6218.9	6218.9	6216.0	6213.1	6227.9	6233.8	6230.8
7.5°	6201.2	6204.1	6201.2	6198.3	6201.2	6198.3	6189.3	6183.5	6195.3	6195.3	6192.3
10°	6159.7	6165.6	6162.7	6165.6	6171.6	6171.6	6159.7	6147.9	6150.8	6144.9	6144.9
12.5°	6109.4	6118.3	6121.2	6133.1	6147.9	6165.6	6139.0	6112.3	6106.4	6103.5	6100.4
15°	6076.7	6085.6	6097.5	6109.4	6136.0	6174.5	6136.0	6094.6	6082.7	6070.8	6065.0
17.5°	6067.9	6079.8	6097.5	6115.2	6150.8	6189.3	6156.8	6115.2	6085.6	6067.9	6061.9
20°	6091.6	6100.4	6127.1	6159.7	6210.1	6248.6	6216.0	6171.6	6127.1	6100.4	6091.6
22.5°	6139.0	6153.8	6186.4	6245.7	6316.8	6373.0	6328.6	6254.5	6183.5	6147.9	6136.0
25°	6242.7	6254.5	6293.0	6373.0	6456.0	6509.3	6461.9	6376.0	6278.2	6230.8	6216.0
27.5°	6399.8	6417.5	6459.0	6553.7	6621.9	6651.6	6619.0	6559.7	6488.6	6438.3	6426.4
30°	6621.9	6642.6	6704.9	6805.6	6850.0	6867.9	6853.1	6814.5	6764.2	6710.8	6699.0
32.5°	6921.2	6933.0	7004.1	7099.0	7140.4	7146.3	7128.6	7110.8	7027.8	6938.9	6933.0
35°	7256.0	7276.8	7362.6	7475.2	7513.7	7516.7	7481.1	7454.5	7356.7	7285.6	7285.6
37.5°	7700.4	7709.3	7792.3	7919.6	7961.2	7949.3	7931.5	7907.8	7804.1	7712.2	7715.2
40°	8221.9	8239.6	8310.8	8458.9	8458.9	8444.1	8455.9	8438.2	8334.5	8245.6	8248.5
42.5°	8841.1	8850.0	8935.9	9092.9	9081.1	9051.4	9063.3	9039.6	8974.4	8873.6	8838.2
45°	9501.8	9537.4	9685.5	9836.6	9812.9	9718.1	9765.5	9759.6	9700.3	9549.2	9558.1
47.5°	10298.8	10358.1	10500.3	10681.0	10654.4	10506.2	10559.5	10595.1	10512.2	10346.2	10316.5
50°	11196.6	11235.1	11445.4	11614.3	11590.6	11433.6	11555.0	11561.0	11353.6	11119.5	11119.5
52.5°	12153.5	12192.1	12476.5	12740.1	12755.0	12526.9	12624.6	12618.7	12281.0	11972.8	11913.5
55°	13226.1	13243.9	13611.2	13999.4	14082.4	13860.1	13872.0	13753.5	13315.0	12956.4	12923.9
57.5°	14334.2	14399.3	14805.3	15309.0	15554.9	15418.6	15356.3	15039.4	14615.7	14203.8	14183.0
60°	15560.8	15563.7	16091.1	16686.7	17184.4	17276.2	17021.5	16597.8	16049.6	15504.5	15480.8
62.5°	16411.1	16538.5	17205.2	18212.5	19104.3	19619.9	18947.3	18058.5	16980.0	16100.0	16011.1
65°	16585.9	16671.8	17688.1	19394.7	21216.8	22327.9	20772.4	18882.1	17042.2	15868.9	15809.7
67.5°	15172.6	15264.5	16633.3	19252.5	22698.3	24976.7	21957.6	18485.1	15987.4	14535.7	14420.1
70°	11735.8	11839.5	13531.3	16947.4	22369.4	25809.2	21113.1	16123.7	13184.6	11617.2	11406.9
72.5°	6239.7	6621.9	8067.8	11632.0	18156.3	22221.2	17311.8	11765.4	8503.4	6950.8	6672.3
75°	2278.4	2325.8	3131.7	5158.3	10562.5	15237.8	10968.4	5611.6	3226.5	2491.7	2364.3
77.5°	942.2	939.2	1031.1	1558.5	3836.9	7804.1	4281.3	1647.4	1028.1	951.1	939.2
80°	557.0	557.0	613.3	648.8	1010.3	2355.5	1128.9	734.8	616.3	563.0	571.8
82.5°	248.9	263.7	388.1	408.9	488.9	645.9	545.1	468.1	402.9	278.5	251.9
85°	136.3	118.5	204.4	213.4	234.1	240.0	257.8	254.8	234.1	136.3	139.3
87.5°	26.7	32.6	59.3	44.4	50.4	44.4	59.3	82.9	86.0	47.4	38.5
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)