

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: P651383

Luminaire Tested: **GALN-SA5D-840-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651383  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5D-840-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34002.5 lumens  
Efficiency: N/A  
Efficacy: 110.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

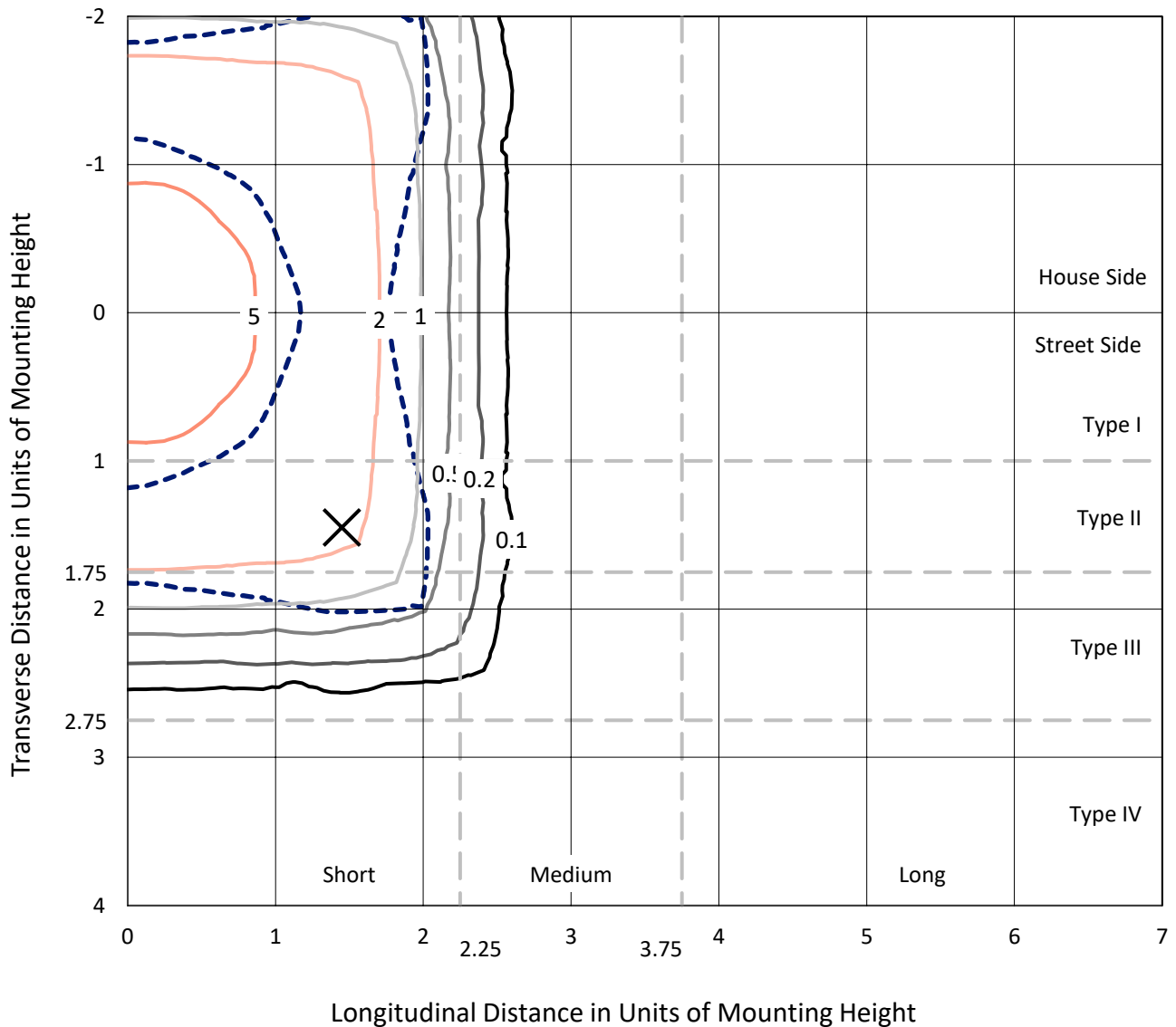
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P651383  
 CATALOG NUMBER: GALN-SA5D-840-U-5NQ

### Iso-Footcandle Lines of Horizontal Illumination

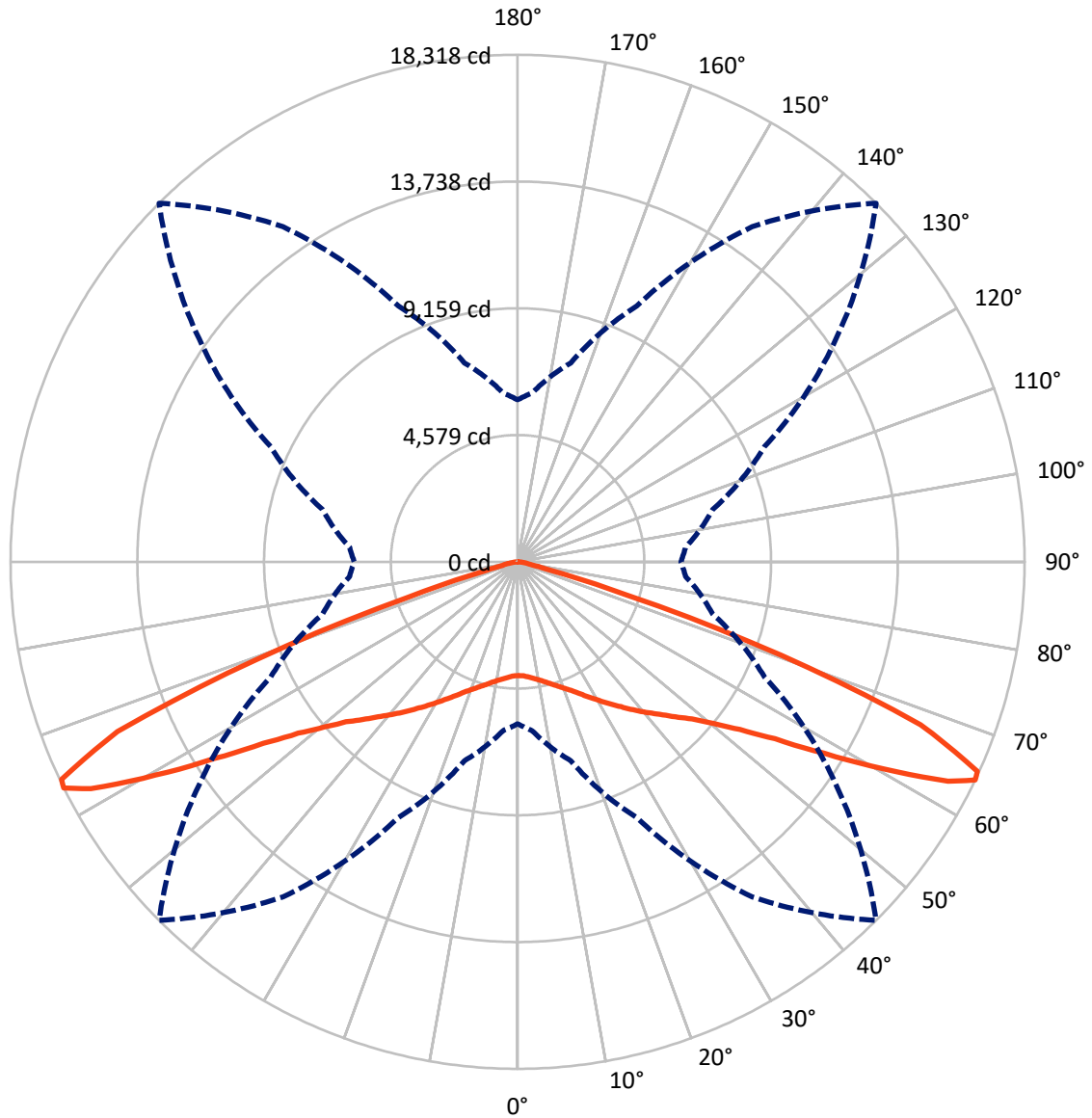
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type V - Short - N/A

REPORT NUMBER: P651383  
CATALOG NUMBER: GALN-SA5D-840-U-5NQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P651383  
 CATALOG NUMBER: GALN-SA5D-840-U-5NQ

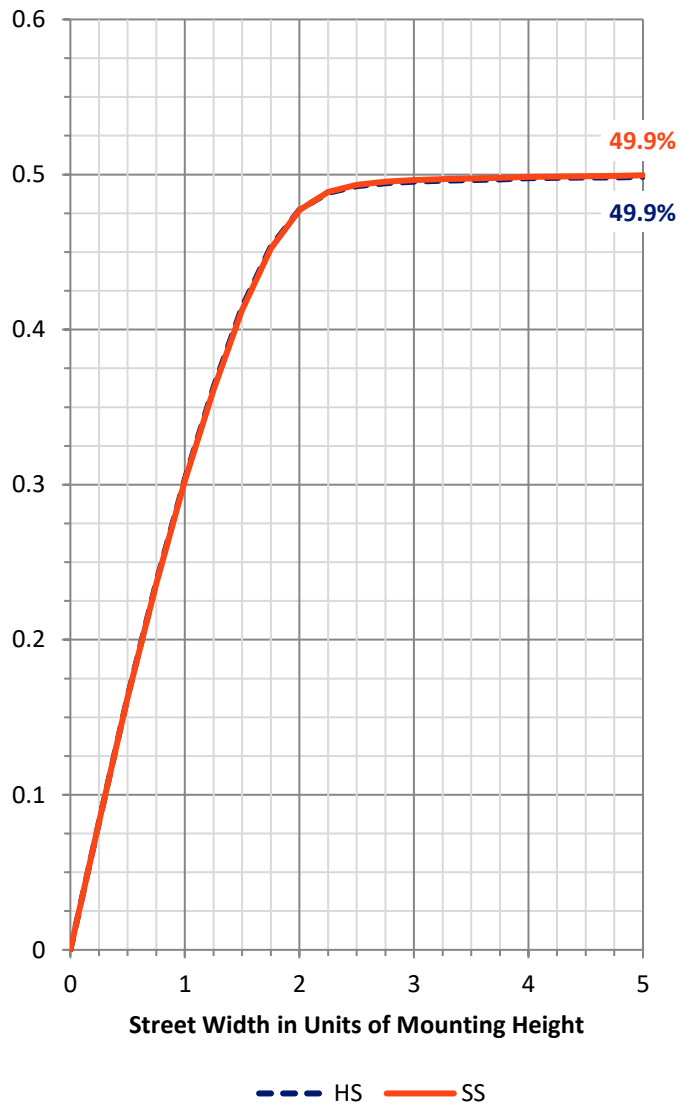
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17001.2	0.0	17001.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17001.2	0.0	17001.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	34002.5	0.0	34002.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	403.8	1.2
10°-20°	1302.4	3.8
20°-30°	2461.1	7.2
30°-40°	4075.9	12.0
40°-50°	6363.1	18.7
50°-60°	9837.2	28.9
60°-70°	8482.5	24.9
70°-80°	961.3	2.8
80°-90°	115.2	0.3
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°	34002.5	100.0
0°-180°	34002.5	100.0

**Coefficient of Utilization**

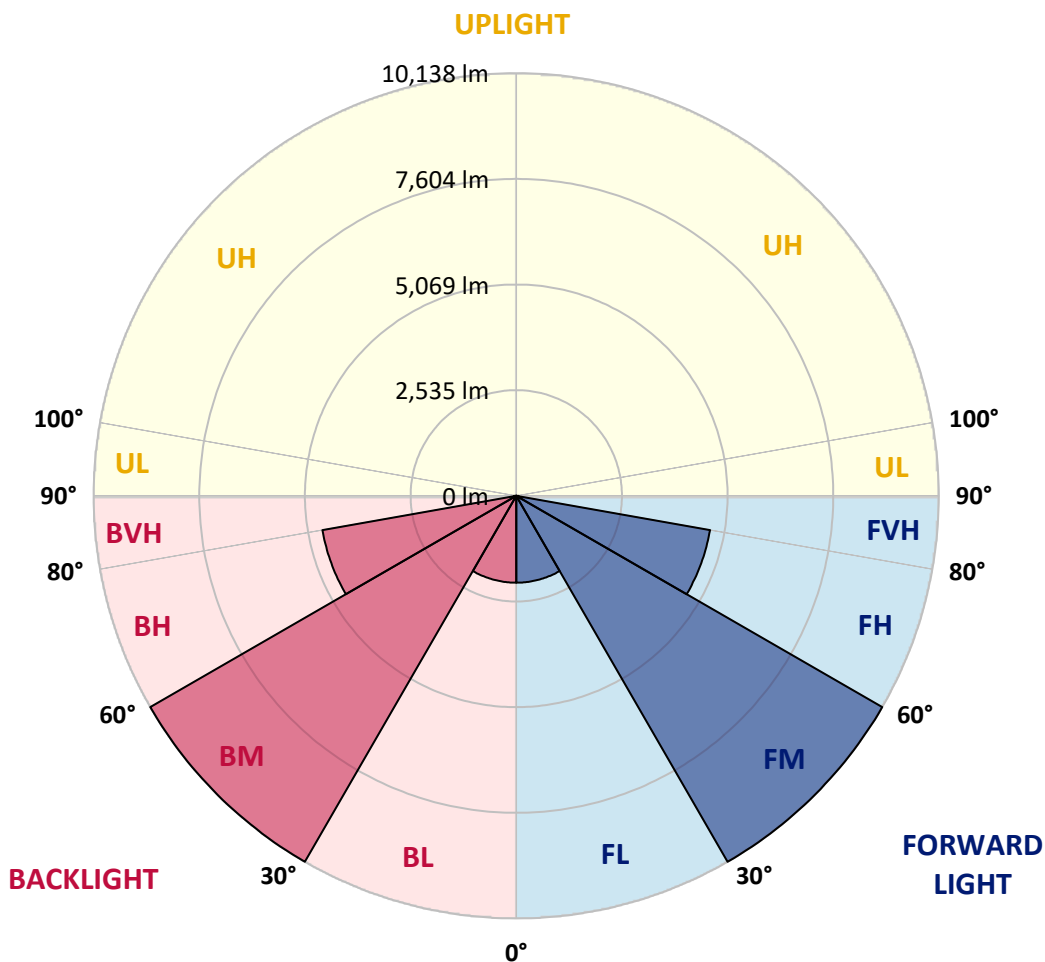


REPORT NUMBER: P651383  
 CATALOG NUMBER: GALN-SA5D-840-U-5NQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2083.6	6.1			
FM (30°-60°)	10138.1	29.8			
FH (60°-80°)	4721.9	13.9			G2/5000
FVH (80°-90°)	57.6	0.2			G1/100
BL (0°-30°)	2083.6	6.1	B3/2500		
BM (30°-60°)	10138.1	29.8	B5		
BH (60°-80°)	4721.9	13.9	B4/5000		G2/5000
BVH (80°-90°)	57.6	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-G2**  
 Type V Short





REPORT NUMBER: P651383  
 CATALOG NUMBER: GALN-SA5D-840-U-5NQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4109.8	4109.8	4109.8	4109.8	4109.8	4109.8	4109.8	4109.8	4109.8	4109.8	4109.8
2.5°	4125.9	4134.9	4127.8	4125.9	4124.2	4124.2	4124.2	4125.9	4133.2	4138.6	4134.9
5°	4178.2	4185.4	4181.8	4180.0	4178.2	4180.0	4176.4	4174.6	4180.0	4180.0	4178.2
7.5°	4243.0	4252.0	4248.5	4252.0	4253.9	4255.6	4246.6	4239.4	4237.6	4243.0	4239.4
10°	4331.3	4338.5	4340.3	4342.1	4345.7	4343.9	4333.1	4320.5	4318.7	4316.9	4315.1
12.5°	4430.3	4435.8	4437.5	4444.8	4450.2	4451.9	4439.3	4428.5	4410.5	4414.2	4406.9
15°	4542.0	4552.8	4551.0	4561.8	4576.2	4579.8	4567.2	4549.2	4533.0	4524.0	4518.6
17.5°	4678.9	4686.1	4682.4	4693.3	4711.3	4720.3	4709.5	4686.1	4669.9	4650.1	4639.2
20°	4841.0	4853.6	4857.2	4857.2	4873.3	4882.3	4866.2	4859.0	4833.7	4819.4	4810.4
22.5°	5024.6	5030.0	5040.9	5051.6	5067.9	5064.2	5058.9	5048.1	5024.6	5012.0	4997.6
25°	5231.8	5237.2	5264.2	5287.6	5293.0	5289.4	5282.2	5276.8	5255.2	5226.4	5215.5
27.5°	5473.1	5483.9	5519.9	5541.5	5541.5	5543.4	5528.9	5546.9	5500.1	5465.9	5462.3
30°	5775.7	5782.9	5813.5	5835.1	5824.3	5815.3	5811.6	5829.6	5779.3	5718.0	5703.6
32.5°	6074.6	6099.9	6126.9	6173.7	6135.9	6119.6	6116.0	6128.6	6071.0	6002.6	5982.8
35°	6395.2	6413.2	6463.6	6503.2	6469.1	6431.2	6447.4	6487.1	6418.6	6326.8	6323.1
37.5°	6750.0	6766.2	6831.0	6872.4	6847.3	6782.4	6809.4	6856.3	6787.8	6674.3	6650.9
40°	7119.1	7153.4	7234.5	7277.7	7236.2	7149.8	7200.2	7250.6	7189.4	7057.9	7005.7
42.5°	7533.3	7587.4	7704.5	7726.1	7646.9	7529.8	7618.0	7699.1	7655.9	7504.6	7484.7
45°	8017.8	8050.2	8194.4	8241.1	8131.3	7985.4	8095.3	8243.0	8210.5	8035.8	7998.0
47.5°	8560.0	8590.6	8740.0	8810.2	8671.6	8475.3	8673.4	8866.1	8846.3	8658.9	8640.9
50°	9201.0	9208.3	9415.3	9494.6	9356.0	9186.7	9363.1	9602.7	9523.4	9283.9	9280.3
52.5°	9903.4	9912.4	10173.6	10326.6	10249.2	10058.3	10267.2	10413.1	10211.4	9898.1	9874.6
55°	10512.2	10557.2	10913.7	11320.8	11427.0	11288.3	11351.4	11282.9	10785.9	10346.5	10278.0
57.5°	10760.7	10848.9	11391.0	12151.0	12842.6	13047.9	12561.6	11909.7	11014.6	10393.3	10326.6
60°	10153.7	10249.2	11090.3	12532.8	14297.8	15189.2	13822.3	12016.0	10494.2	9620.7	9516.3
62.5°	8131.3	8158.3	9395.6	11634.1	15146.0	17454.8	14353.6	11110.0	8979.5	7792.7	7751.3
64°	5851.3	6128.6	7439.7	10200.6	14775.0	18317.5	14047.4	9840.4	7293.8	6092.6	5898.1
65°	4376.3	4451.9	5997.2	8711.2	14121.2	18252.6	13453.1	8626.6	6040.4	4662.7	4446.5
67.5°	1653.2	1662.2	2213.3	4342.1	10052.9	15704.3	10267.2	4693.3	2544.8	1840.6	1773.9
70°	686.2	698.8	812.2	1460.6	4320.5	10083.5	4950.8	1692.9	931.1	754.6	743.8
72.5°	502.5	509.6	543.9	648.3	1329.1	4140.4	1628.1	718.6	545.7	488.0	482.6
75°	394.4	398.0	423.2	477.3	619.6	1147.2	677.2	493.5	416.0	374.6	371.0
77.5°	300.7	309.7	327.7	363.8	416.0	543.9	448.4	369.2	320.6	286.4	281.0
80°	207.1	217.9	252.1	266.5	279.1	353.0	306.1	279.1	250.4	208.9	196.3
82.5°	127.8	135.1	169.3	181.9	176.5	198.1	196.3	199.9	178.3	129.7	120.7
85°	66.6	70.2	91.8	95.5	88.2	81.1	100.8	117.1	109.8	73.8	72.1
87.5°	14.4	16.2	19.8	18.0	19.8	19.8	25.2	37.8	39.6	25.2	23.4
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)