

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: P651382

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651382
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-SA5D-840-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1200mA 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: 29346.7 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

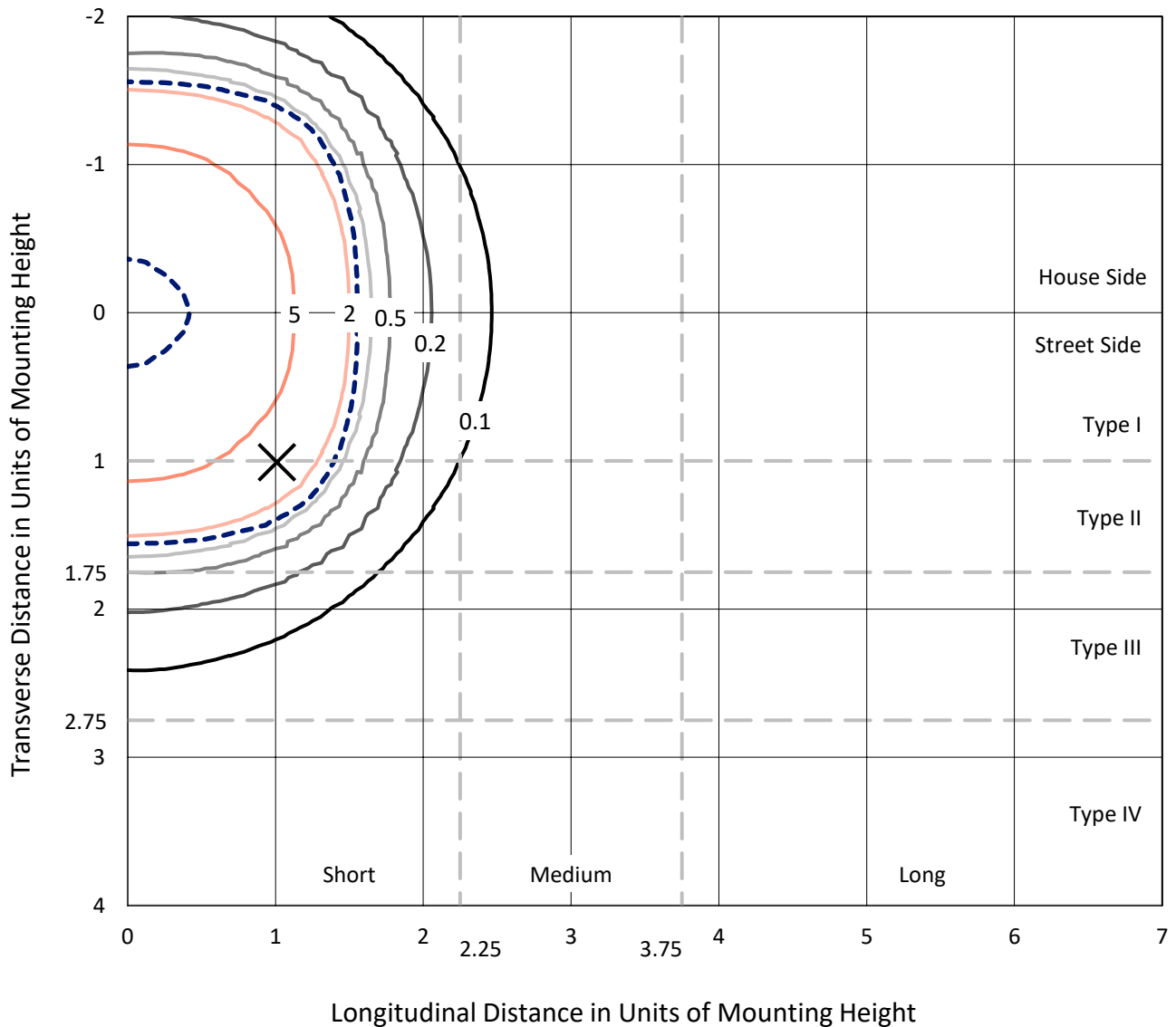
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

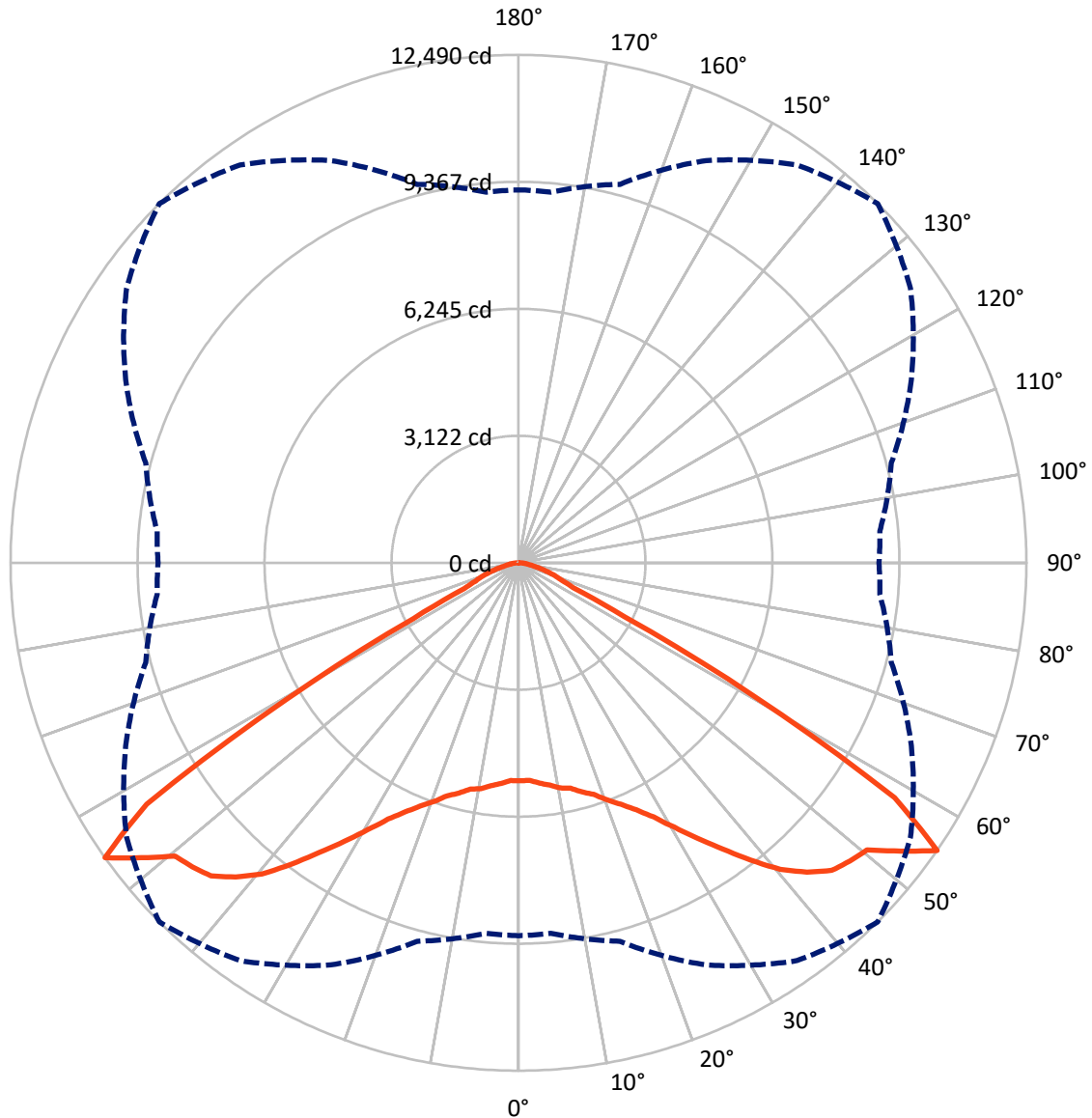
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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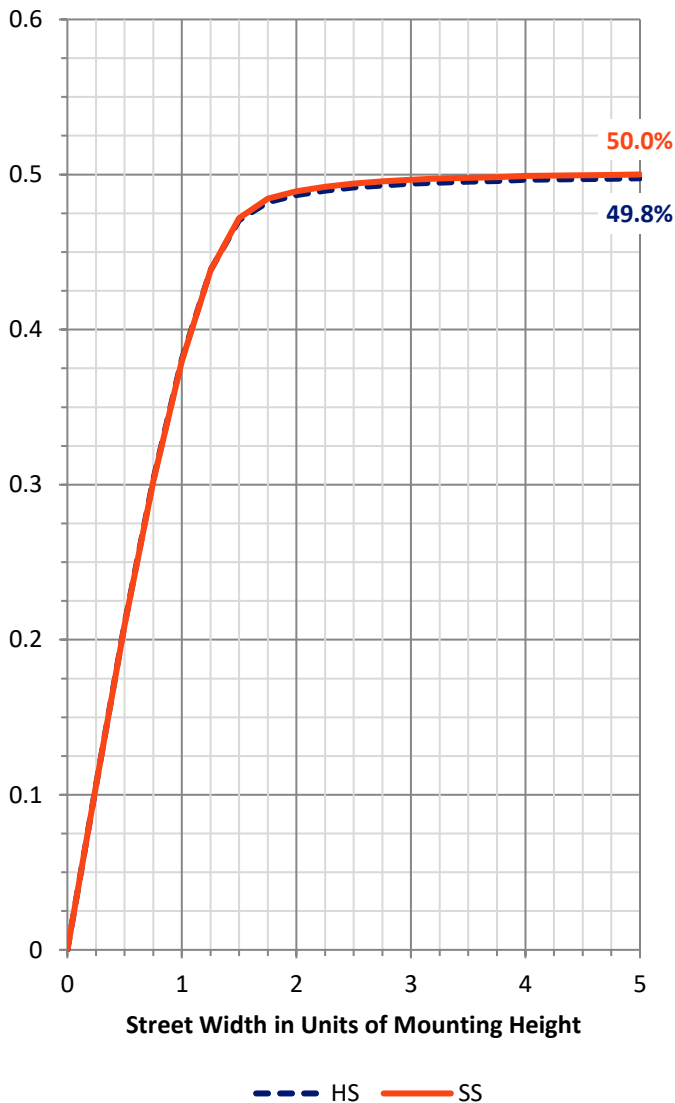
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14673.3	0.0	14673.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14673.3	0.0	14673.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	29346.7	0.0	29346.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.4	1.8
10°-20°	1658.6	5.7
20°-30°	3092.7	10.5
30°-40°	5178.2	17.6
40°-50°	8057.6	27.5
50°-60°	8366.4	28.5
60°-70°	1774.2	6.0
70°-80°	584.3	2.0
80°-90°	111.3	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°	29346.7	100.0
0°-180°	29346.7	100.0

Coefficient of Utilization

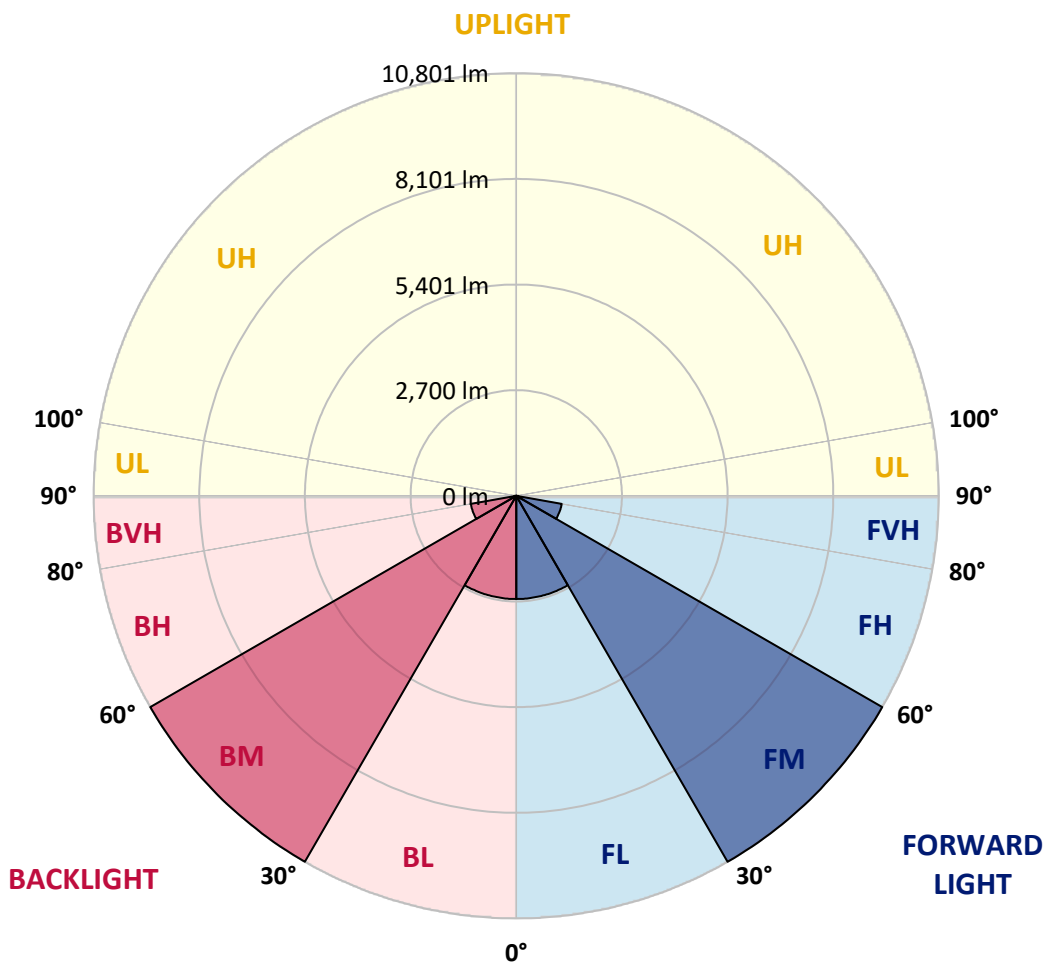


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2637.4	9.0			
FM (30°-60°)	10801.1	36.8			
FH (60°-80°)	1179.3	4.0			G1/1800
FVH (80°-90°)	55.6	0.2			G1/100
BL (0°-30°)	2637.4	9.0	B4/5000		
BM (30°-60°)	10801.1	36.8	B5		
BH (60°-80°)	1179.3	4.0	B3/2500		G1/1800
BVH (80°-90°)	55.6	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-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5358.3	5358.3	5358.3	5358.3	5358.3	5358.3	5358.3	5358.3	5358.3	5358.3	5358.3
2.5°	5422.1	5397.3	5354.7	5386.6	5411.5	5358.3	5379.5	5390.2	5383.1	5354.7	5365.3
5°	5500.1	5485.9	5450.4	5475.3	5443.4	5443.4	5422.1	5393.8	5436.3	5429.2	5446.9
7.5°	5500.1	5482.4	5553.3	5507.2	5521.4	5521.4	5485.9	5457.6	5478.9	5446.9	5429.2
10°	5610.1	5634.9	5603.0	5613.6	5606.5	5631.3	5578.1	5560.4	5542.7	5532.0	5510.7
12.5°	5741.3	5723.5	5734.2	5727.0	5751.9	5688.1	5656.1	5617.1	5649.1	5603.0	5634.9
15°	5847.6	5837.0	5847.6	5876.0	5851.2	5847.6	5790.9	5751.9	5702.2	5712.9	5663.2
17.5°	5993.1	5982.4	5985.9	6010.8	6007.2	5989.5	5947.0	5872.5	5854.7	5826.4	5794.5
20°	6209.4	6191.6	6184.5	6195.1	6212.9	6227.1	6142.0	6113.6	6053.3	6007.2	5954.0
22.5°	6393.8	6386.6	6415.1	6368.9	6407.9	6450.5	6368.9	6354.8	6205.8	6181.0	6124.2
25°	6649.1	6638.4	6620.7	6688.1	6734.2	6730.6	6652.6	6574.6	6461.2	6432.7	6432.7
27.5°	6918.6	6858.3	6950.5	6968.3	7049.8	7074.6	7007.2	6893.8	6787.4	6727.1	6741.3
30°	7255.5	7198.7	7220.0	7347.6	7454.0	7546.3	7376.1	7209.4	7060.4	6954.1	6936.3
32.5°	7592.4	7535.6	7599.4	7723.6	7936.3	8074.6	7908.0	7617.2	7443.4	7287.3	7319.3
35°	7865.5	7908.0	8010.8	8198.7	8418.6	8642.0	8376.0	8152.7	7904.4	7730.6	7755.4
37.5°	8305.1	8436.3	8517.9	8734.2	9046.3	9276.8	9000.2	8709.4	8443.5	8216.5	8138.4
40°	8879.6	8968.3	9060.5	9315.8	9684.6	9915.1	9652.7	9273.3	9010.8	8776.8	8766.2
42.5°	9510.9	9596.0	9691.7	10003.8	10223.6	10397.4	10156.3	9954.1	9663.3	9478.9	9468.3
45°	10244.9	10184.6	10291.0	10496.7	10681.0	10794.6	10638.5	10539.2	10330.0	10159.8	10142.0
47.5°	10734.3	10681.0	10872.5	11057.0	11085.3	10961.3	10993.1	11085.3	10865.5	10585.3	10674.0
50°	11017.9	11017.9	11145.6	11315.8	11262.7	11103.1	11354.8	11361.9	11142.1	10893.8	10893.8
52.5°	10525.0	10634.9	10996.7	11553.4	11730.8	11776.9	11720.1	11479.0	10904.5	10397.4	10372.6
55°	9170.4	9145.6	9634.9	10911.6	11943.5	12489.6	11766.2	10656.2	9489.6	8918.6	8861.9
57.5°	5964.6	5993.1	6723.5	8025.0	9886.7	10904.5	9684.6	8124.3	6723.5	5936.3	6010.8
60°	2684.5	2780.2	3223.5	4195.2	5794.5	6624.2	5808.6	4407.9	3383.1	2936.3	2975.2
62.5°	1542.6	1560.3	1578.1	1872.4	2468.2	2918.5	2563.9	1978.8	1744.7	1666.7	1666.7
65°	1301.4	1290.8	1294.4	1319.2	1383.0	1475.2	1436.2	1383.0	1390.1	1383.0	1372.3
67.5°	1106.4	1120.6	1110.0	1127.7	1131.2	1145.4	1170.3	1191.5	1195.1	1202.1	1195.1
70°	907.9	911.4	918.5	932.7	936.2	946.8	982.3	1000.0	1010.6	1010.6	1024.8
72.5°	695.1	691.5	698.6	712.7	730.5	734.0	766.0	790.8	805.0	787.3	790.8
75°	457.4	461.0	471.6	482.3	507.1	531.9	542.5	567.4	571.0	578.0	560.3
77.5°	273.1	280.1	290.8	312.1	333.4	354.6	379.5	397.2	404.3	397.2	375.9
80°	177.3	177.3	191.5	209.2	234.1	251.8	265.9	280.1	290.8	280.1	273.1
82.5°	109.9	109.9	127.7	148.9	166.7	177.3	198.6	216.3	227.0	219.8	209.2
85°	56.8	60.3	74.4	92.2	106.4	113.5	109.9	99.3	88.6	85.1	78.0
87.5°	17.7	17.7	21.3	21.3	17.7	17.7	21.3	17.7	21.3	21.3	21.3
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)