

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: P651436

Luminaire Tested: **GALN-SA6D-840-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651436
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-840-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26502.4 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

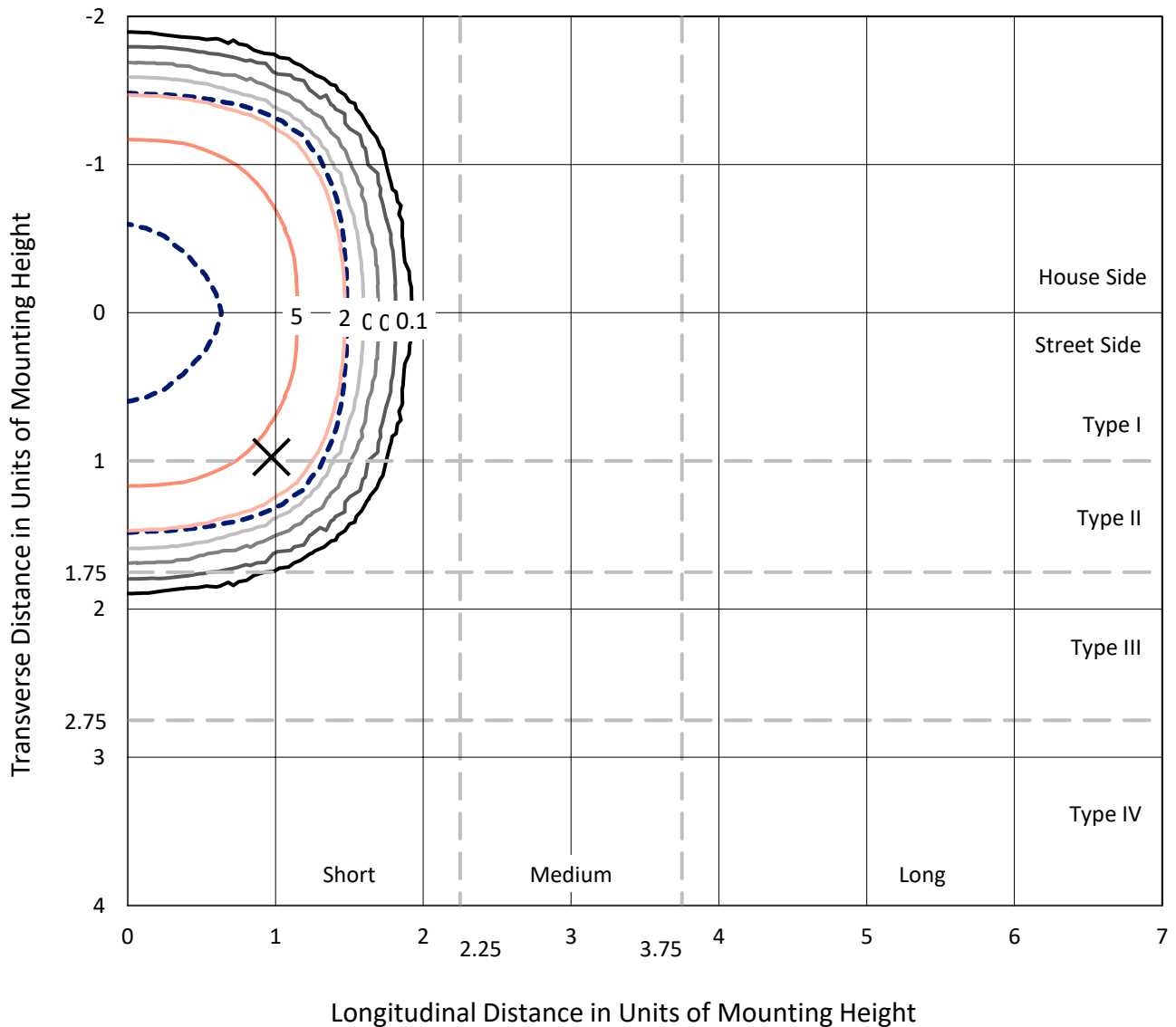
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651436
 CATALOG NUMBER: GALN-SA6D-840-U-5NQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

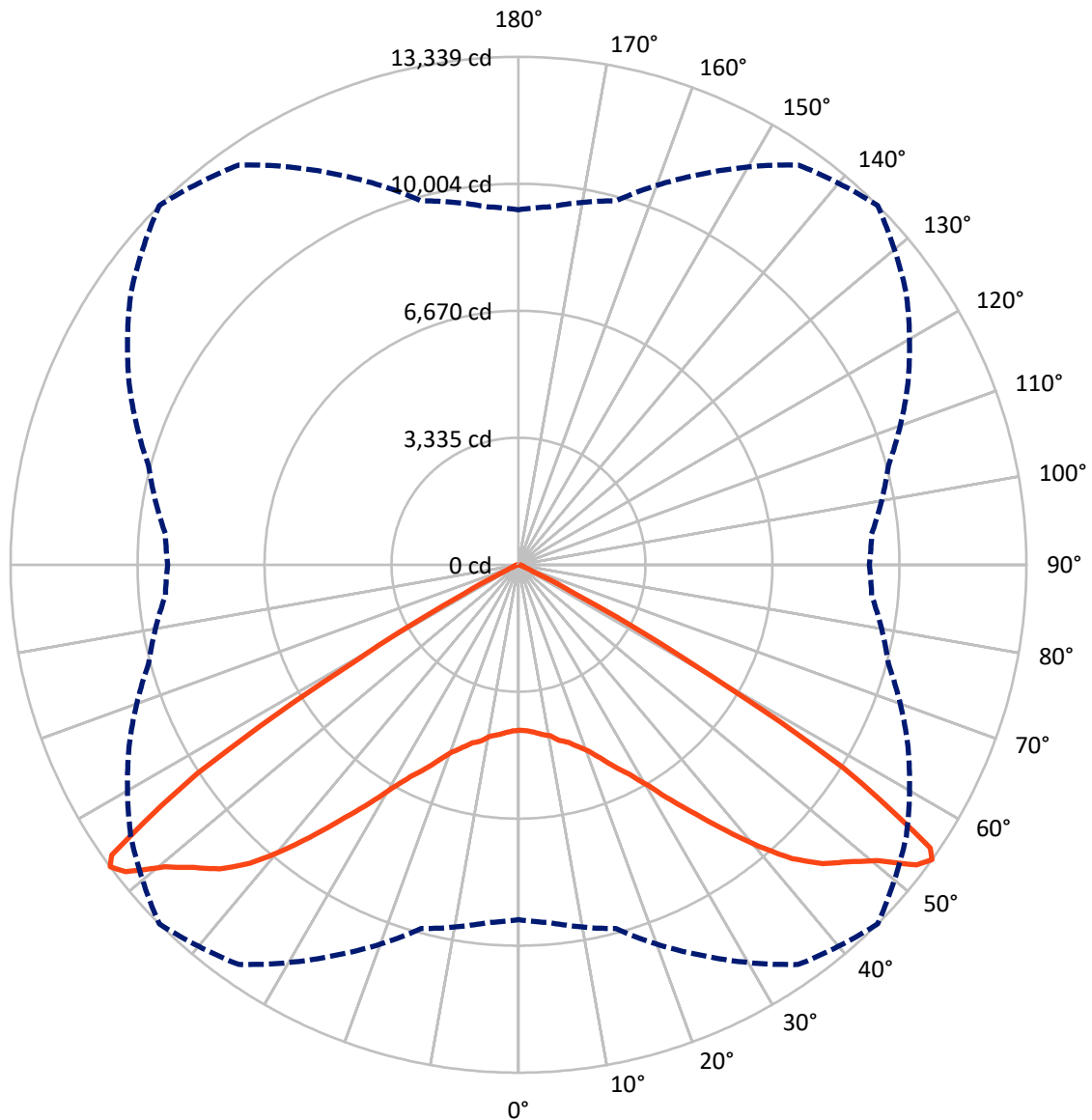
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type V - Short - N/A

REPORT NUMBER: P651436
CATALOG NUMBER: GALN-SA6D-840-U-5NQ-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

REPORT NUMBER: P651436
 CATALOG NUMBER: GALN-SA6D-840-U-5NQ-GRSBK

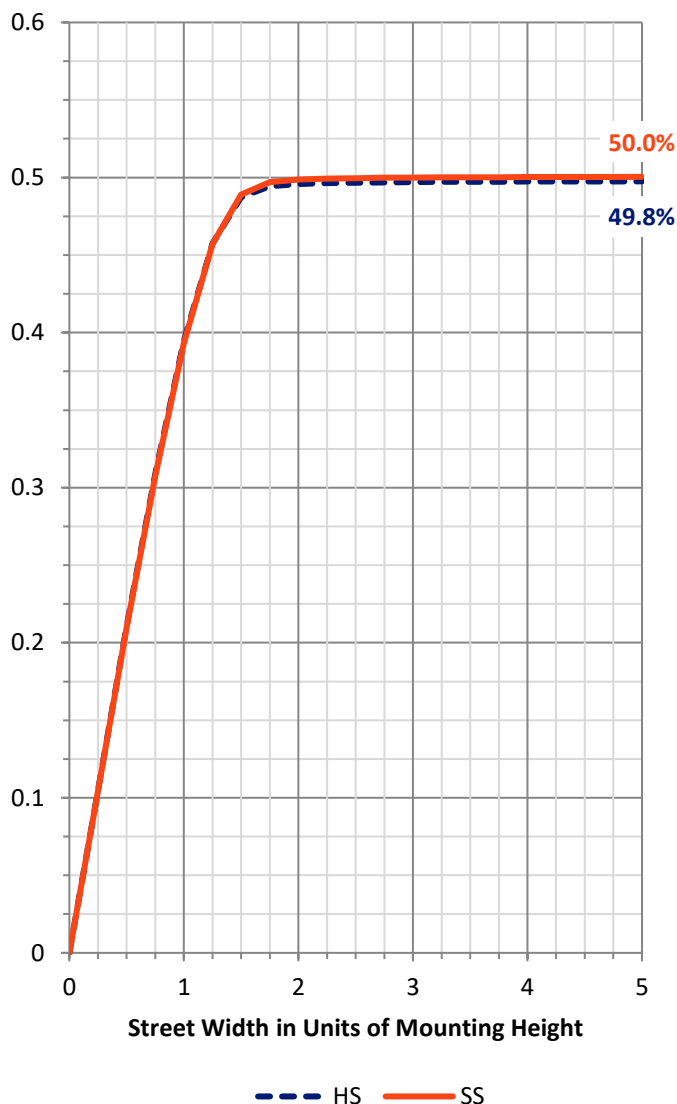
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13251.2	0.0	13251.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13251.2	0.0	13251.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	26502.4	0.0	26502.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.3	1.6
10°-20°	1377.4	5.2
20°-30°	2699.6	10.2
30°-40°	4854.4	18.3
40°-50°	8309.8	31.4
50°-60°	8040.5	30.3
60°-70°	688.3	2.6
70°-80°	81.6	0.3
80°-90°	25.6	0.1
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°	26502.4	100.0
0°-180°	26502.4	100.0

Coefficient of Utilization



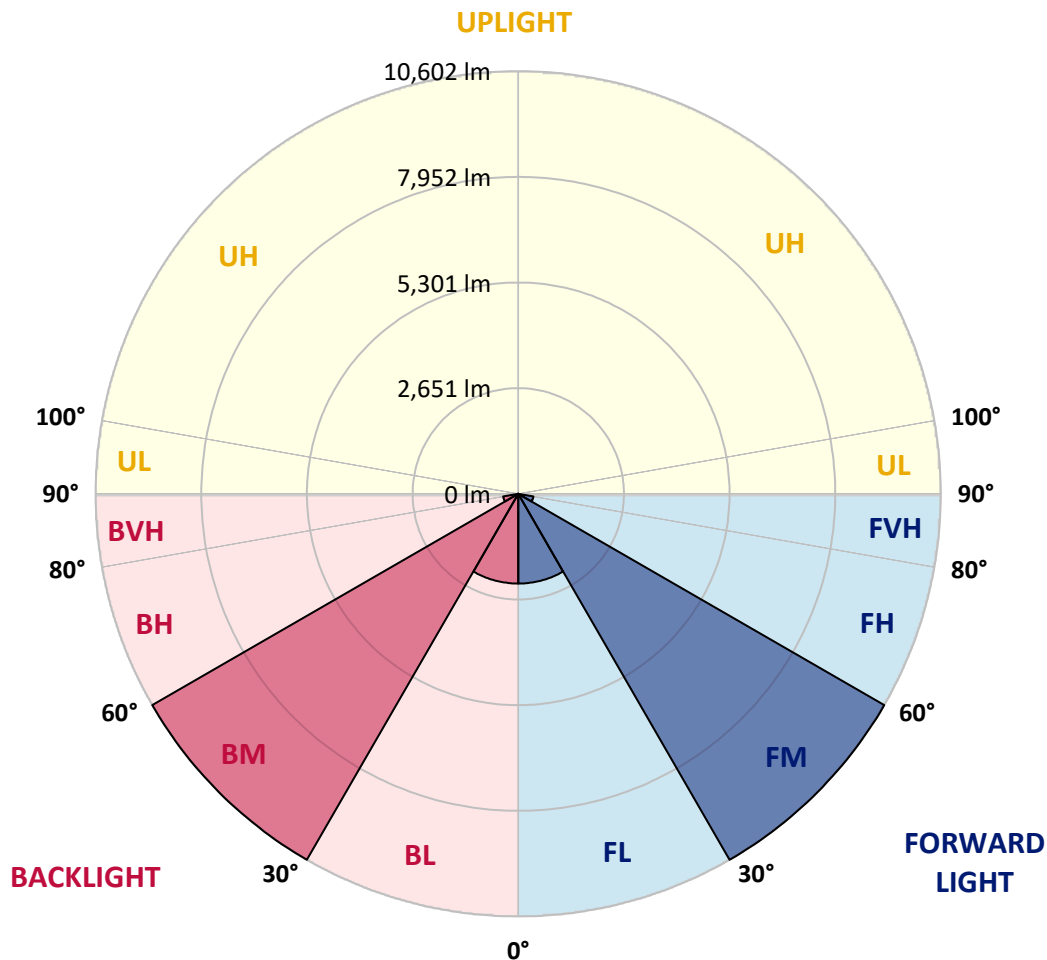
REPORT NUMBER: P651436
 CATALOG NUMBER: GALN-SA6D-840-U-5NQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2251.1	8.5			
FM	(30°-60°)	10602.3	40.0			
FH	(60°-80°)	384.9	1.5			G0/660
FVH	(80°-90°)	12.8	0.0			G1/100
BL	(0°-30°)	2251.1	8.5	B3/2500		
BM	(30°-60°)	10602.3	40.0	B5		
BH	(60°-80°)	384.9	1.5	B1/500		G0/660
BVH	(80°-90°)	12.8	0.0			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: P651436

CATALOG NUMBER: GALN-SA6D-840-U-5NQ-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4345.6	4345.6	4345.6	4345.6	4345.6	4345.6	4345.6	4345.6	4345.6	4345.6	4345.6
2.5°	4366.6	4391.8	4375.0	4387.6	4387.6	4366.6	4379.2	4328.8	4362.4	4337.2	4341.4
5°	4433.8	4429.5	4429.5	4433.8	4416.9	4425.3	4408.5	4391.8	4379.2	4362.4	4412.7
7.5°	4517.7	4517.7	4488.3	4496.7	4488.3	4500.9	4467.3	4433.8	4421.1	4408.5	4400.2
10°	4597.5	4589.1	4576.5	4614.3	4584.9	4568.1	4551.3	4530.3	4484.1	4467.3	4450.6
12.5°	4715.1	4710.9	4694.0	4731.9	4715.1	4731.9	4668.9	4614.3	4605.9	4551.3	4580.7
15°	4853.6	4891.4	4862.0	4862.0	4853.6	4832.6	4807.4	4782.3	4706.7	4685.6	4689.8
17.5°	5034.1	5021.5	5025.7	5025.7	5067.7	5013.1	4962.7	4899.8	4862.0	4849.4	4807.4
20°	5206.3	5223.1	5218.9	5248.3	5273.5	5214.7	5160.1	5151.7	5046.8	5063.6	5004.8
22.5°	5508.6	5496.0	5517.0	5538.0	5521.2	5512.8	5462.4	5399.4	5307.0	5265.1	5256.7
25°	5827.7	5806.7	5768.9	5819.3	5844.4	5882.3	5785.7	5752.1	5609.4	5546.4	5550.6
27.5°	6100.6	6130.0	6172.0	6193.0	6255.9	6243.3	6176.1	6067.0	5957.8	5886.5	5840.3
30°	6474.3	6491.1	6562.4	6591.8	6701.0	6730.4	6625.4	6499.5	6306.3	6214.0	6159.4
32.5°	6818.6	6936.1	6931.9	7078.9	7255.2	7377.0	7188.0	6994.9	6801.8	6692.6	6596.0
35°	7377.0	7356.0	7477.8	7633.1	7918.6	8057.1	7851.4	7628.9	7335.0	7158.7	7083.1
37.5°	7897.6	7906.0	8069.7	8317.5	8645.0	8859.1	8678.5	8313.3	8010.9	7784.2	7679.3
40°	8653.4	8670.1	8838.1	9119.4	9488.9	9719.8	9509.9	9140.4	8737.3	8561.0	8561.0
42.5°	9539.3	9610.6	9719.8	9963.3	10295.0	10551.1	10362.2	10072.5	9665.2	9438.5	9472.1
45°	10450.4	10484.0	10555.3	10916.4	11071.8	11197.7	11021.4	10887.0	10614.1	10337.0	10290.8
47.5°	11302.7	11315.3	11525.2	11638.6	11760.4	11655.3	11768.7	11592.4	11285.9	11017.2	10962.6
50°	11680.6	11659.5	11957.7	12302.0	12394.3	12209.6	12113.0	11995.4	11529.4	11206.2	11063.4
52.5°	10580.5	10702.3	11256.5	12213.8	12935.9	13091.3	12528.7	11987.0	11117.9	10488.2	10391.6
54°	9321.0	9434.3	9891.9	11311.1	12814.2	13339.0	12432.1	11281.7	10055.7	9308.4	9211.8
55°	8073.9	7948.0	8779.3	10227.8	12243.2	13120.7	12050.0	10370.6	8968.3	8283.8	8149.5
57.5°	4370.8	4391.8	5092.9	6461.7	8603.0	10059.9	8884.3	7015.9	5298.6	4530.3	4463.1
60°	1385.5	1419.1	1725.6	2611.6	4110.5	4908.2	4207.0	2817.3	1948.2	1561.9	1498.9
62.5°	432.4	449.3	491.2	730.6	1125.3	1608.1	1259.6	755.7	562.6	516.5	524.9
65°	264.5	264.5	268.7	285.5	335.9	390.5	377.9	331.7	319.1	310.7	306.5
67.5°	172.2	167.9	176.4	189.0	197.3	201.5	214.1	226.7	222.5	214.1	214.1
70°	105.0	100.8	109.2	126.0	130.2	138.5	151.1	167.9	163.7	155.3	159.5
72.5°	58.8	58.8	63.0	75.6	88.1	96.5	109.2	121.8	126.0	121.8	121.8
75°	21.0	25.2	33.6	46.2	54.6	67.2	79.8	92.3	105.0	96.5	92.3
77.5°	8.4	8.4	16.8	29.4	42.0	54.6	75.6	88.1	96.5	88.1	79.8
80°	4.2	4.2	12.6	25.2	37.8	50.4	63.0	75.6	79.8	71.4	63.0
82.5°	4.2	4.2	12.6	25.2	37.8	46.2	67.2	75.6	83.9	75.6	63.0
85°	0.0	4.2	12.6	25.2	33.6	37.8	37.8	25.2	21.0	12.6	12.6
87.5°	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)