

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: P650996

Luminaire Tested: **GALN-SA7C-840-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650996
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-SA7C-840-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1050mA 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: 28290.4 lumens
Efficiency: N/A
Efficacy: 75.0 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

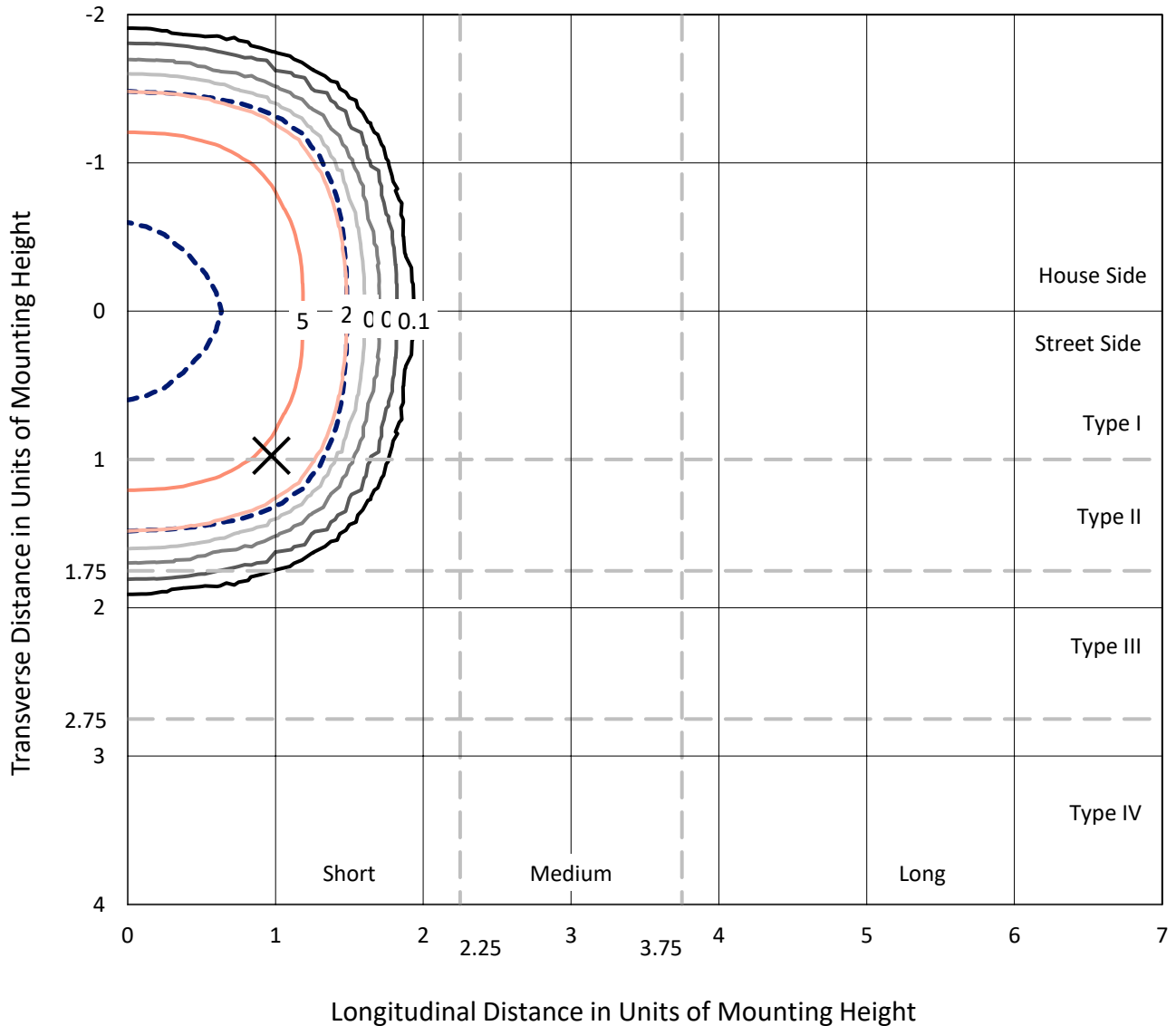
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650996
 CATALOG NUMBER: GALN-SA7C-840-U-5NQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

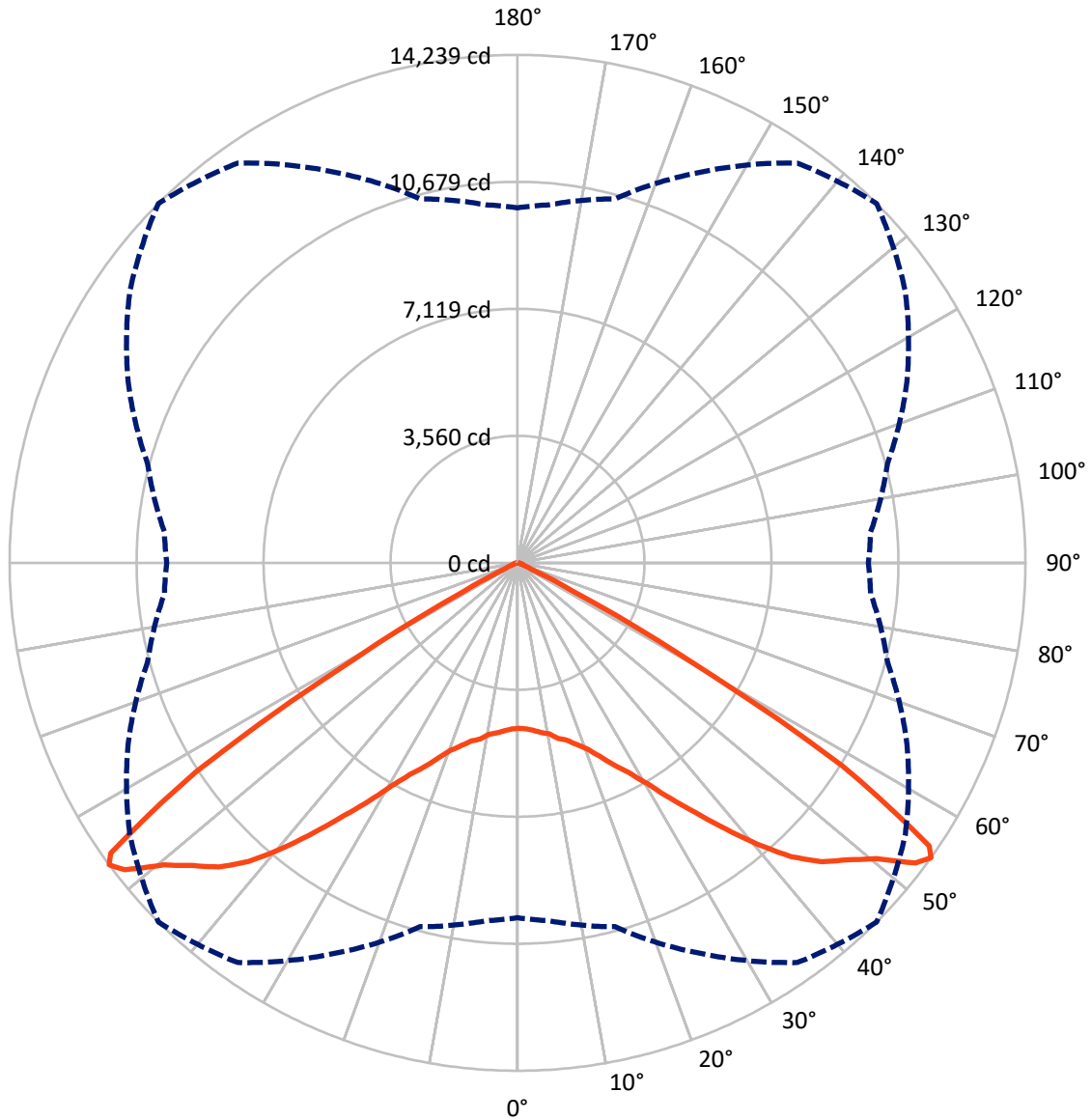
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type V - Short - N/A

REPORT NUMBER: P650996
CATALOG NUMBER: GALN-SA7C-840-U-5NQ-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P650996
 CATALOG NUMBER: GALN-SA7C-840-U-5NQ-GRSBK

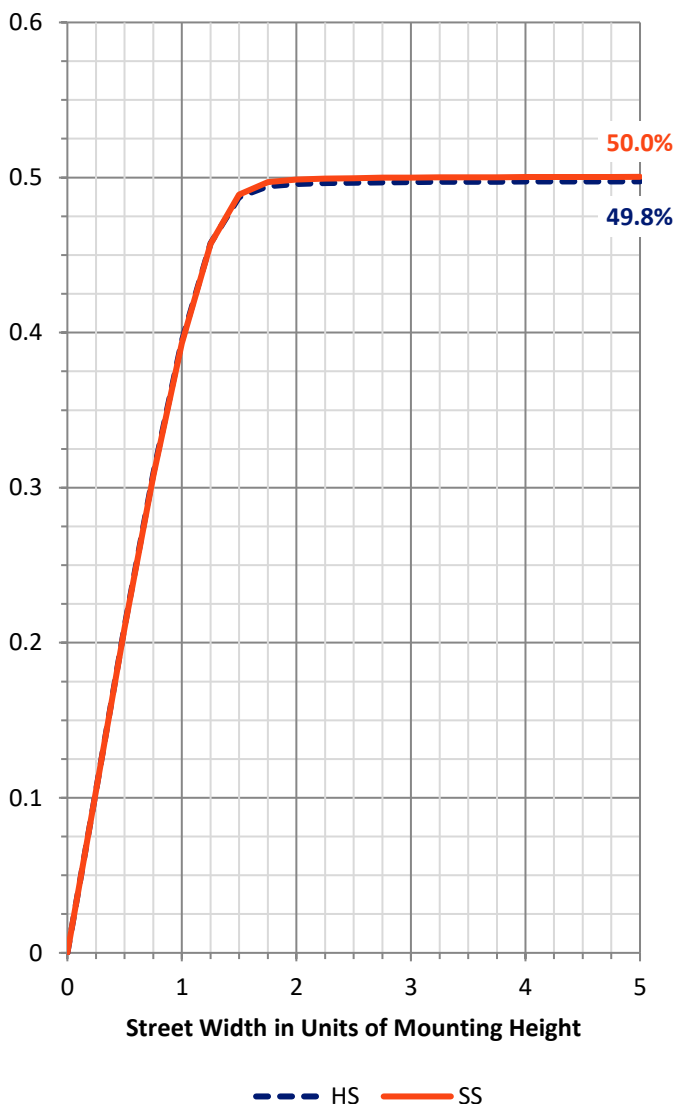
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14145.2	0.0	14145.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14145.2	0.0	14145.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	28290.4	0.0	28290.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.0	1.6
10°-20°	1470.3	5.2
20°-30°	2881.7	10.2
30°-40°	5181.9	18.3
40°-50°	8870.4	31.4
50°-60°	8583.0	30.3
60°-70°	734.7	2.6
70°-80°	87.1	0.3
80°-90°	27.3	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°	28290.4	100.0
0°-180°	28290.4	100.0

Coefficient of Utilization



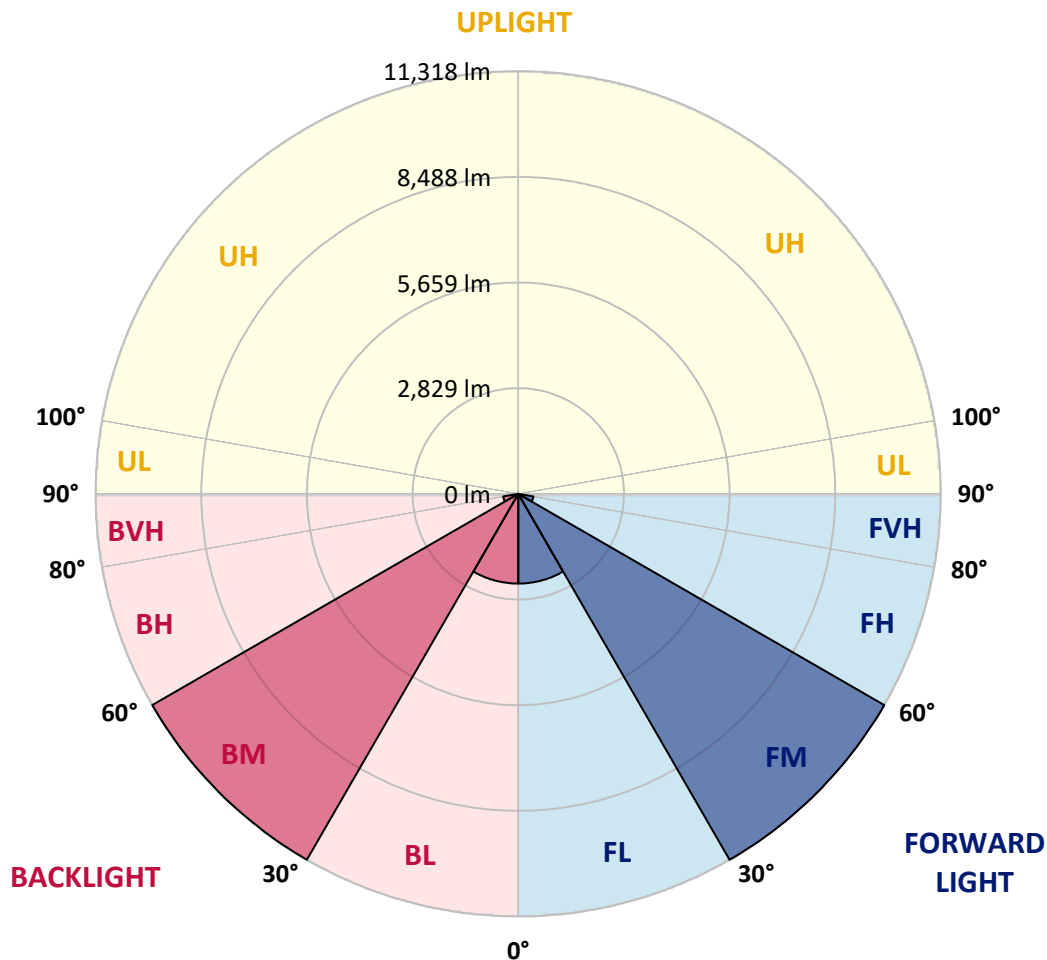
REPORT NUMBER: P650996
 CATALOG NUMBER: GALN-SA7C-840-U-5NQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2403.0	8.5			
FM (30°-60°)	11317.6	40.0			
FH (60°-80°)	410.9	1.5			G0/660
FVH (80°-90°)	13.7	0.0			G1/100
BL (0°-30°)	2403.0	8.5	B3/2500		
BM (30°-60°)	11317.6	40.0	B5		
BH (60°-80°)	410.9	1.5	B1/500		G0/660
BVH (80°-90°)	13.7	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: P650996

CATALOG NUMBER: GALN-SA7C-840-U-5NQ-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4638.7	4638.7	4638.7	4638.7	4638.7	4638.7	4638.7	4638.7	4638.7	4638.7	4638.7
2.5°	4661.2	4688.1	4670.2	4683.5	4683.5	4661.2	4674.6	4620.8	4656.7	4629.8	4634.2
5°	4732.9	4728.4	4728.4	4732.9	4714.9	4723.9	4706.0	4688.1	4674.6	4656.7	4710.4
7.5°	4822.5	4822.5	4791.1	4800.1	4791.1	4804.5	4768.7	4732.9	4719.4	4706.0	4697.0
10°	4907.7	4898.7	4885.3	4925.6	4894.2	4876.3	4858.4	4835.9	4786.6	4768.7	4750.8
12.5°	5033.1	5028.7	5010.8	5051.0	5033.1	5051.0	4983.9	4925.6	4916.7	4858.4	4889.7
15°	5181.1	5221.3	5190.0	5190.0	5181.1	5158.6	5131.8	5104.9	5024.2	5001.8	5006.2
17.5°	5373.7	5360.4	5364.8	5364.8	5409.6	5351.4	5297.5	5230.3	5190.0	5176.6	5131.8
20°	5557.5	5575.5	5571.0	5602.3	5629.2	5566.5	5508.2	5499.3	5387.2	5405.1	5342.4
22.5°	5880.2	5866.8	5889.2	5911.6	5893.6	5884.7	5830.9	5763.7	5665.1	5620.2	5611.3
25°	6220.9	6198.4	6158.1	6211.9	6238.8	6279.1	6176.1	6140.1	5987.8	5920.6	5925.0
27.5°	6512.2	6543.6	6588.4	6610.8	6678.0	6664.6	6592.9	6476.3	6359.8	6283.6	6234.3
30°	6911.1	6929.0	7005.2	7036.6	7153.0	7184.4	7072.4	6937.9	6731.8	6633.2	6574.9
32.5°	7278.6	7404.1	7399.6	7556.5	7744.7	7874.6	7672.9	7466.8	7260.6	7144.1	7041.0
35°	7874.6	7852.2	7982.2	8148.0	8452.8	8600.7	8381.2	8143.6	7829.9	7641.6	7560.9
37.5°	8430.4	8439.4	8614.2	8878.6	9228.2	9456.8	9264.0	8874.1	8551.5	8309.4	8197.4
40°	9237.1	9255.0	9434.3	9734.7	10129.0	10375.6	10151.5	9757.0	9326.8	9138.6	9138.6
42.5°	10182.8	10259.0	10375.6	10635.5	10989.6	11262.9	11061.3	10752.0	10317.3	10075.3	10111.1
45°	11155.4	11191.3	11267.5	11652.9	11818.7	11953.1	11764.9	11621.5	11330.2	11034.4	10985.1
47.5°	12065.2	12078.7	12302.7	12423.8	12553.8	12441.7	12562.7	12374.5	12047.3	11760.5	11702.2
50°	12468.6	12446.2	12764.4	13131.9	13230.5	13033.3	12930.2	12804.7	12307.3	11962.1	11809.7
52.5°	11294.3	11424.3	12016.0	13037.8	13808.6	13974.5	13373.9	12795.7	11868.0	11195.7	11092.6
54°	9949.8	10070.8	10559.3	12074.2	13678.7	14238.9	13270.8	12042.8	10734.1	9936.3	9833.2
55°	8618.7	8484.2	9371.6	10917.9	13069.1	14005.8	12863.0	11070.3	9573.3	8842.8	8699.3
57.5°	4665.6	4688.1	5436.6	6897.6	9183.4	10738.6	9483.6	7489.2	5656.1	4835.9	4764.3
60°	1479.0	1514.9	1842.0	2787.7	4387.7	5239.3	4490.9	3007.3	2079.6	1667.3	1600.0
62.5°	461.6	479.5	524.4	779.9	1201.1	1716.6	1344.6	806.8	600.6	551.3	560.3
65°	282.3	282.3	286.9	304.8	358.5	416.8	403.3	354.1	340.6	331.7	327.1
67.5°	183.8	179.3	188.2	201.7	210.7	215.1	228.6	242.0	237.5	228.6	228.6
70°	112.0	107.6	116.6	134.5	138.9	147.9	161.4	179.3	174.8	165.8	170.3
72.5°	62.7	62.7	67.2	80.7	94.1	103.1	116.6	129.9	134.5	129.9	129.9
75°	22.4	26.9	35.8	49.3	58.3	71.7	85.2	98.6	112.0	103.1	98.6
77.5°	9.0	9.0	17.9	31.4	44.8	58.3	80.7	94.1	103.1	94.1	85.2
80°	4.5	4.5	13.5	26.9	40.4	53.8	67.2	80.7	85.2	76.2	67.2
82.5°	4.5	4.5	13.5	26.9	40.4	49.3	71.7	80.7	89.7	80.7	67.2
85°	0.0	4.5	13.5	26.9	35.8	40.4	40.4	26.9	22.4	13.5	13.5
87.5°	0.0	0.0	4.5	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)