

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: P652481

Luminaire Tested: **GALN-SA7B-840-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652481  
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-SA7B-840-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 800mA 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: 22897.9 lumens  
Efficiency: N/A  
Efficacy: 80.1 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): 286  
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

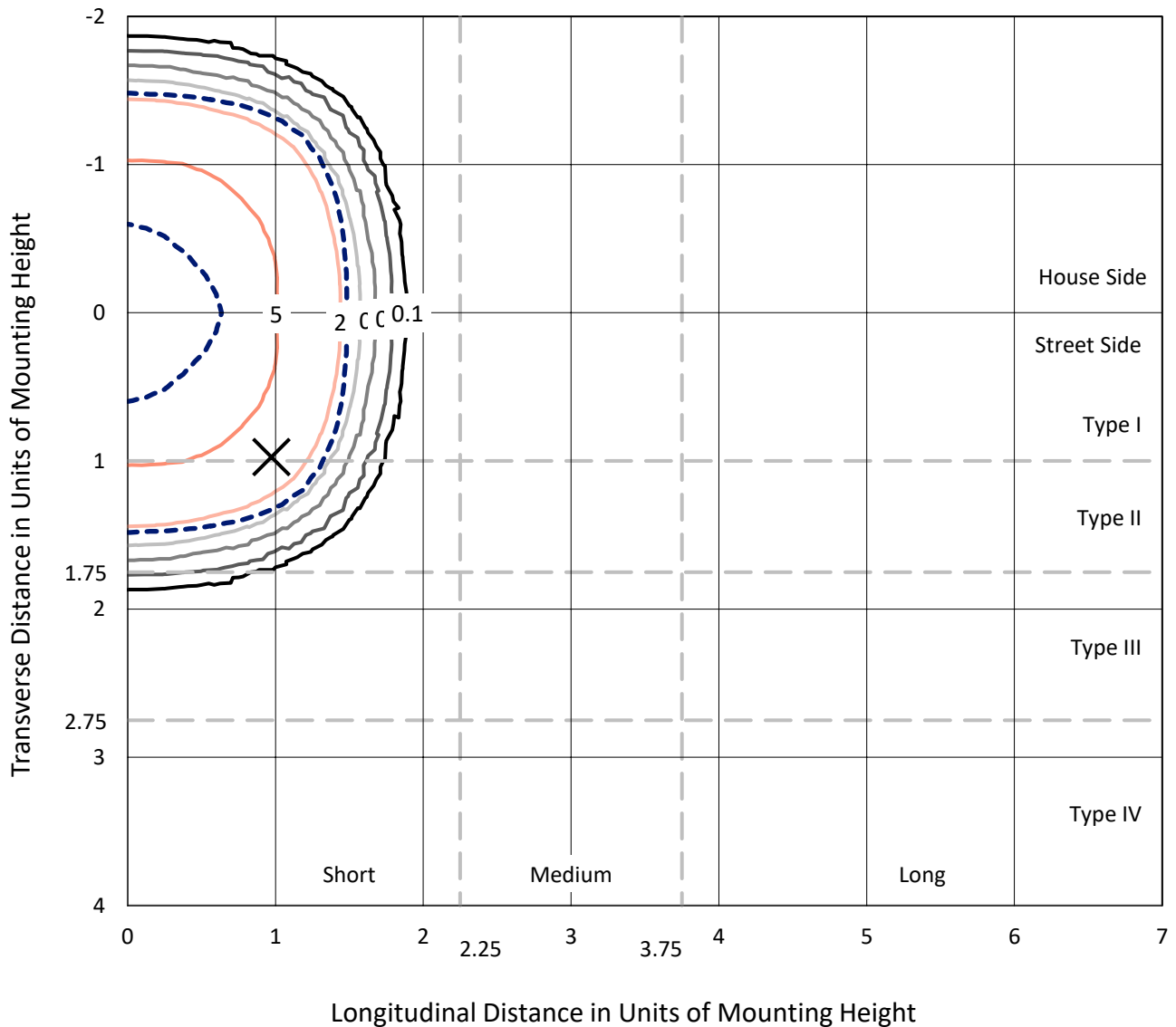




REPORT NUMBER: P652481  
 CATALOG NUMBER: GALN-SA7B-840-U-5NQ-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

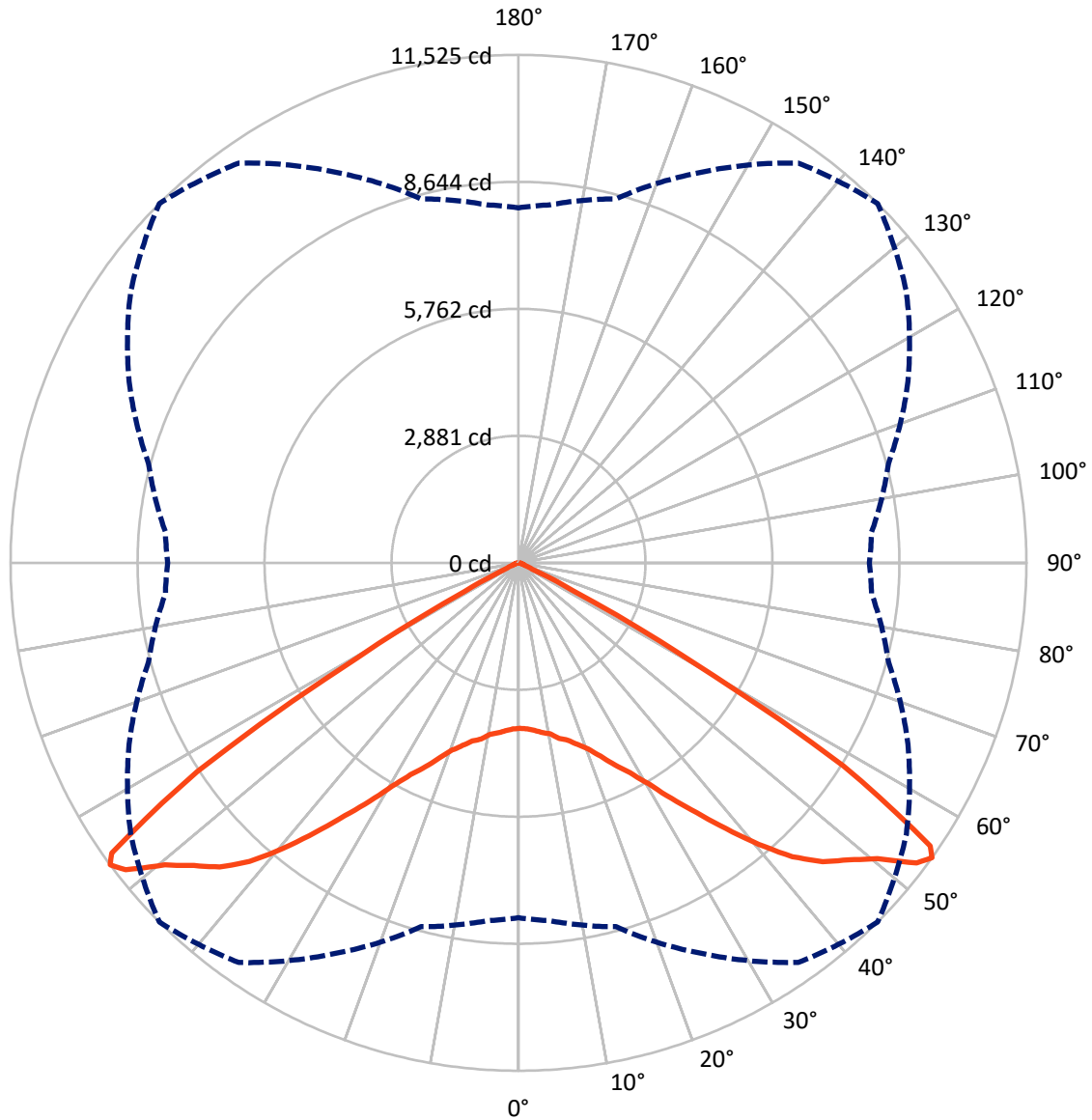
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type V - Short - N/A

REPORT NUMBER: P652481  
CATALOG NUMBER: GALN-SA7B-840-U-5NQ-GRSBK

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P652481  
 CATALOG NUMBER: GALN-SA7B-840-U-5NQ-GRSBK

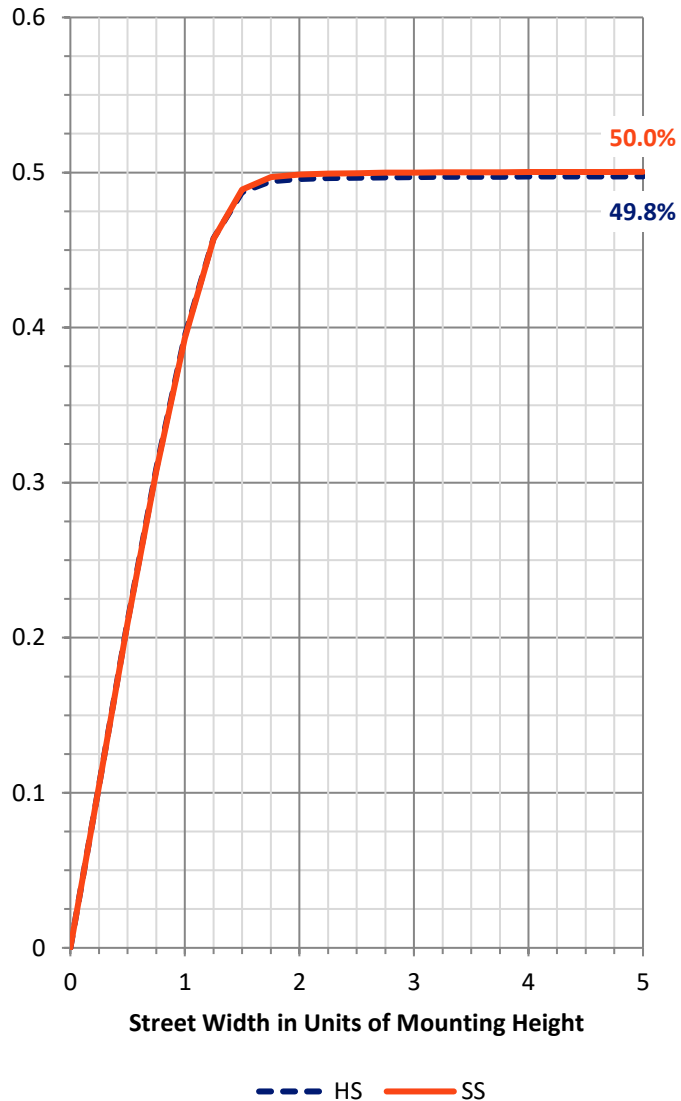
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11448.9	0.0	11448.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11448.9	0.0	11448.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	22897.9	0.0	22897.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	367.5	1.6
10°-20°	1190.0	5.2
20°-30°	2332.4	10.2
30°-40°	4194.2	18.3
40°-50°	7179.6	31.4
50°-60°	6946.9	30.3
60°-70°	594.7	2.6
70°-80°	70.5	0.3
80°-90°	22.1	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°	22897.9	100.0
0°-180°	22897.9	100.0

**Coefficient of Utilization**



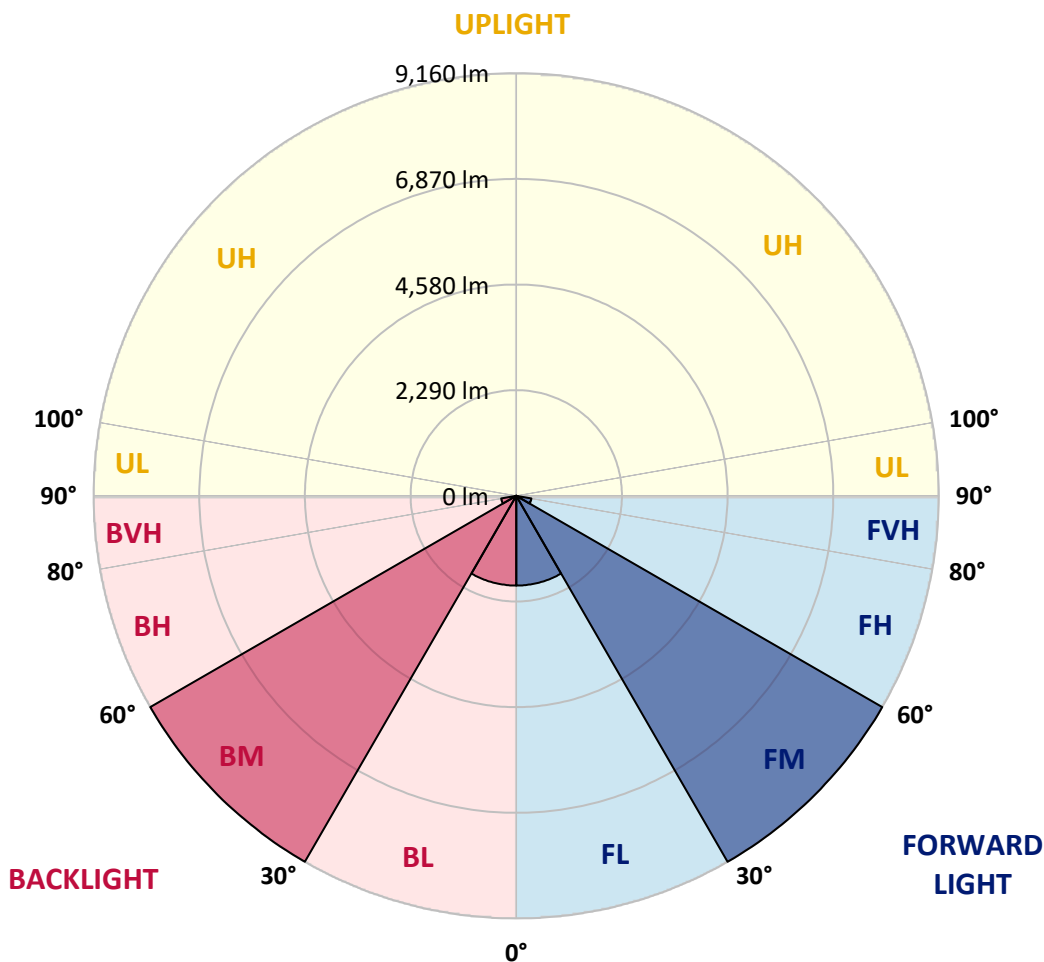
REPORT NUMBER: P652481  
 CATALOG NUMBER: GALN-SA7B-840-U-5NQ-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1945.0	8.5			
FM (30°-60°)	9160.4	40.0			
FH (60°-80°)	332.6	1.5			G0/660
FVH (80°-90°)	11.0	0.0			G1/100
BL (0°-30°)	1945.0	8.5	B3/2500		
BM (30°-60°)	9160.4	40.0	B5		
BH (60°-80°)	332.6	1.5	B1/500		G0/660
BVH (80°-90°)	11.0	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: P652481

CATALOG NUMBER: GALN-SA7B-840-U-5NQ-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3754.6	3754.6	3754.6	3754.6	3754.6	3754.6	3754.6	3754.6	3754.6	3754.6	3754.6
2.5°	3772.6	3794.4	3780.0	3790.8	3790.8	3772.6	3783.6	3740.0	3769.0	3747.3	3750.9
5°	3830.8	3827.1	3827.1	3830.8	3816.2	3823.4	3809.0	3794.4	3783.6	3769.0	3812.6
7.5°	3903.2	3903.2	3877.9	3885.2	3877.9	3888.8	3859.8	3830.8	3819.8	3809.0	3801.7
10°	3972.2	3965.0	3954.0	3986.7	3961.3	3946.8	3932.3	3914.2	3874.2	3859.8	3845.2
12.5°	4073.8	4070.1	4055.6	4088.3	4073.8	4088.3	4033.9	3986.7	3979.4	3932.3	3957.7
15°	4193.5	4226.1	4200.7	4200.7	4193.5	4175.3	4153.6	4131.8	4066.5	4048.4	4052.0
17.5°	4349.5	4338.6	4342.3	4342.3	4378.5	4331.3	4287.8	4233.3	4200.7	4189.9	4153.6
20°	4498.2	4512.7	4509.1	4534.5	4556.2	4505.5	4458.3	4451.1	4360.3	4374.9	4324.1
22.5°	4759.4	4748.5	4766.6	4784.8	4770.2	4763.0	4719.4	4665.0	4585.3	4549.0	4541.7
25°	5035.1	5016.9	4984.3	5027.8	5049.6	5082.2	4998.8	4969.8	4846.4	4792.0	4795.6
27.5°	5270.9	5296.3	5332.5	5350.7	5405.1	5394.2	5336.1	5241.9	5147.5	5085.9	5046.0
30°	5593.7	5608.2	5669.9	5695.3	5789.6	5815.0	5724.4	5615.5	5448.6	5368.8	5321.7
32.5°	5891.2	5992.8	5989.1	6116.1	6268.5	6373.7	6210.4	6043.5	5876.7	5782.4	5699.0
35°	6373.7	6355.5	6460.7	6595.0	6841.6	6961.3	6783.6	6591.3	6337.4	6185.1	6119.7
37.5°	6823.5	6830.8	6972.2	7186.3	7469.2	7654.2	7498.2	7182.6	6921.4	6725.6	6634.8
40°	7476.4	7491.0	7636.0	7879.1	8198.3	8397.8	8216.5	7897.2	7549.0	7396.6	7396.6
42.5°	8241.9	8303.5	8397.8	8608.2	8894.8	9116.1	8952.9	8702.6	8350.7	8154.8	8183.9
45°	9029.1	9058.1	9119.7	9431.7	9566.0	9674.8	9522.4	9406.3	9170.5	8931.1	8891.2
47.5°	9765.4	9776.3	9957.7	10055.7	10160.9	10070.1	10168.1	10015.7	9750.9	9518.8	9471.6
50°	10091.9	10073.8	10331.3	10628.8	10708.6	10549.0	10465.6	10364.0	9961.3	9682.0	9558.6
52.5°	9141.5	9246.7	9725.6	10552.6	11176.6	11310.8	10824.7	10356.7	9605.8	9061.7	8978.3
54°	8053.2	8151.1	8546.6	9772.7	11071.3	11524.8	10741.3	9747.3	8688.0	8042.3	7958.9
55°	6975.8	6867.0	7585.2	8836.8	10578.0	11336.2	10411.2	8960.1	7748.5	7157.2	7041.1
57.5°	3776.3	3794.4	4400.3	5582.8	7432.9	8691.7	7676.0	6061.7	4578.0	3914.2	3856.2
60°	1197.1	1226.1	1490.9	2256.3	3551.4	4240.7	3634.8	2434.1	1683.2	1349.5	1295.1
62.5°	373.7	388.1	424.5	631.2	972.2	1389.3	1088.3	653.0	486.1	446.2	453.5
65°	228.5	228.5	232.2	246.7	290.2	337.3	326.5	286.6	275.7	268.4	264.8
67.5°	148.7	145.1	152.4	163.2	170.5	174.1	185.0	195.9	192.3	185.0	185.0
70°	90.7	87.0	94.3	108.8	112.4	119.7	130.6	145.1	141.5	134.2	137.8
72.5°	50.8	50.8	54.4	65.3	76.2	83.4	94.3	105.2	108.8	105.2	105.2
75°	18.2	21.8	29.0	39.9	47.2	58.0	69.0	79.8	90.7	83.4	79.8
77.5°	7.2	7.2	14.5	25.4	36.2	47.2	65.3	76.2	83.4	76.2	69.0
80°	3.6	3.6	10.8	21.8	32.6	43.6	54.4	65.3	69.0	61.6	54.4
82.5°	3.6	3.6	10.8	21.8	32.6	39.9	58.0	65.3	72.6	65.3	54.4
85°	0.0	3.6	10.8	21.8	29.0	32.6	32.6	21.8	18.2	10.8	10.8
87.5°	0.0	0.0	3.6	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)