

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: P652371

Luminaire Tested: **GALN-SA5B-840-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652371
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-SA5B-840-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 16463.4 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

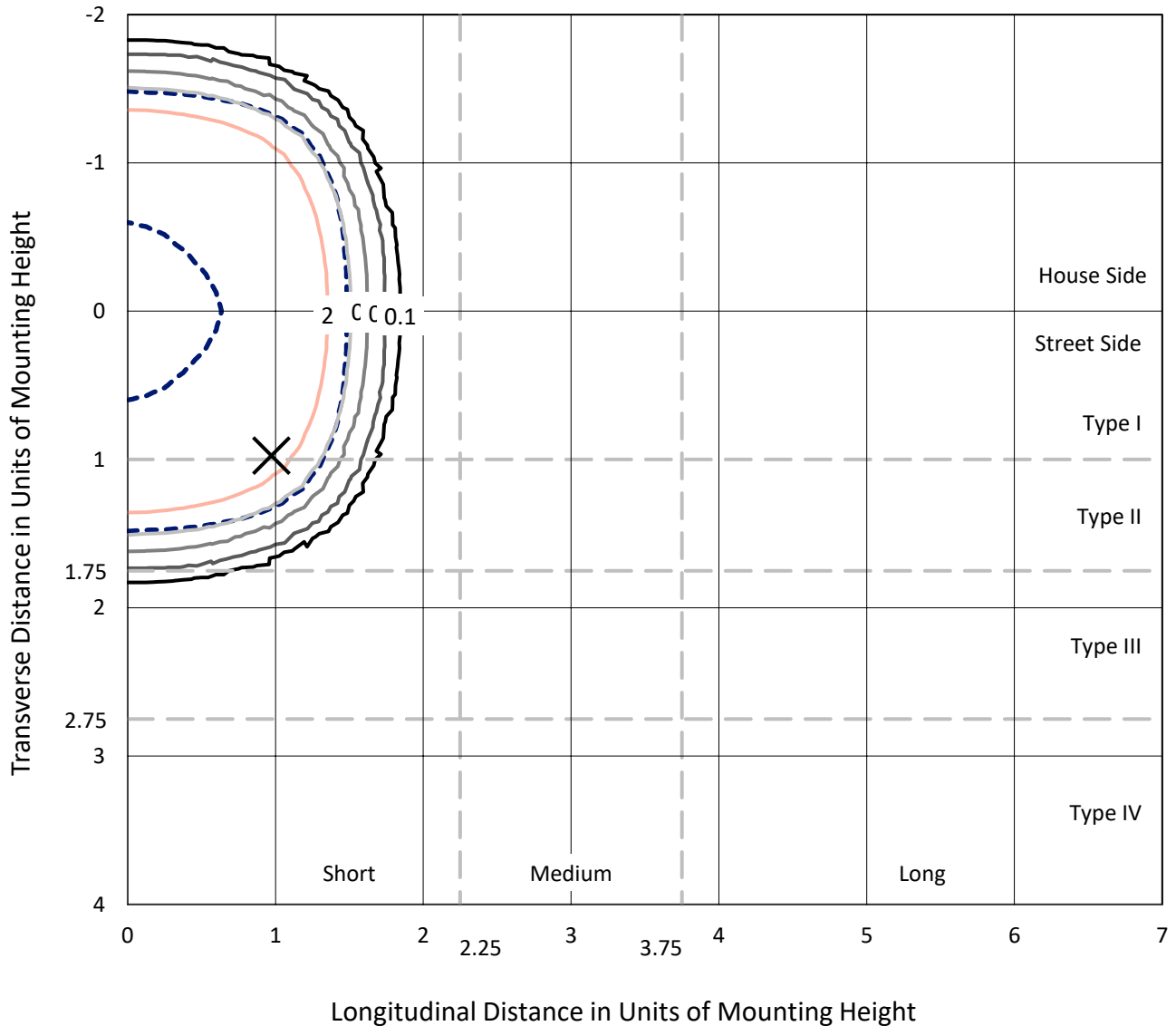
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652371
 CATALOG NUMBER: GALN-SA5B-840-U-5NQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

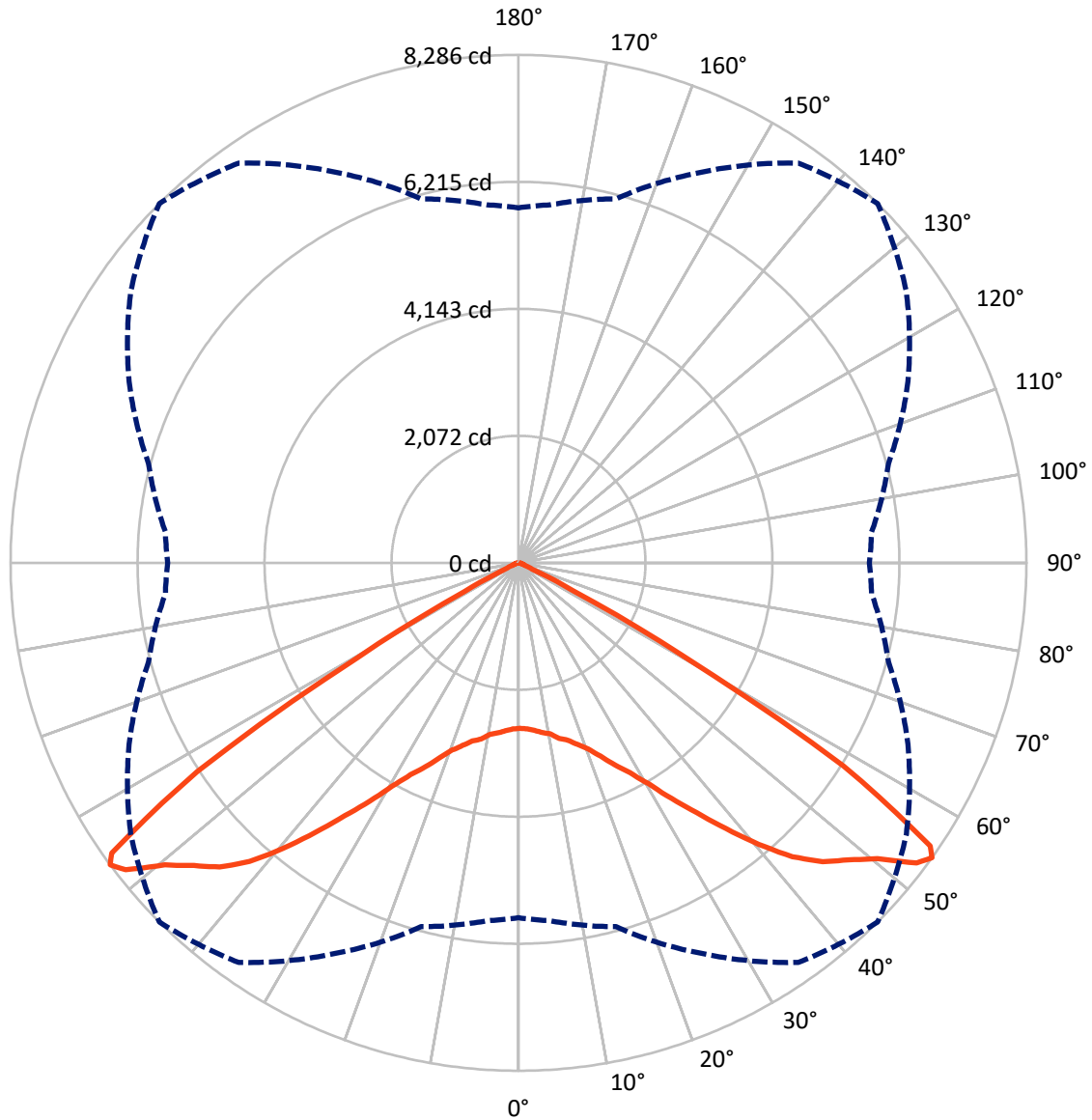
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - N/A

REPORT NUMBER: P652371
CATALOG NUMBER: GALN-SA5B-840-U-5NQ-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P652371
 CATALOG NUMBER: GALN-SA5B-840-U-5NQ-GRSBK

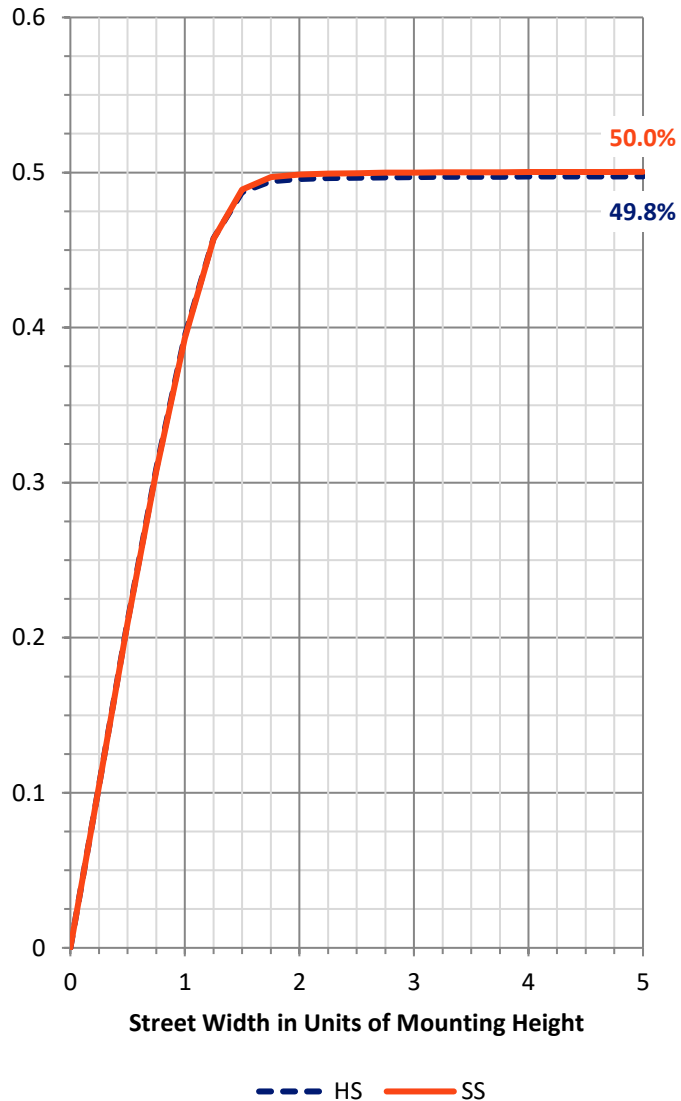
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8231.7	0.0	8231.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8231.7	0.0	8231.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	16463.4	0.0	16463.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.2	1.6
10°-20°	855.6	5.2
20°-30°	1677.0	10.2
30°-40°	3015.6	18.3
40°-50°	5162.1	31.4
50°-60°	4994.8	30.3
60°-70°	427.6	2.6
70°-80°	50.7	0.3
80°-90°	15.9	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°	16463.4	100.0
0°-180°	16463.4	100.0

Coefficient of Utilization

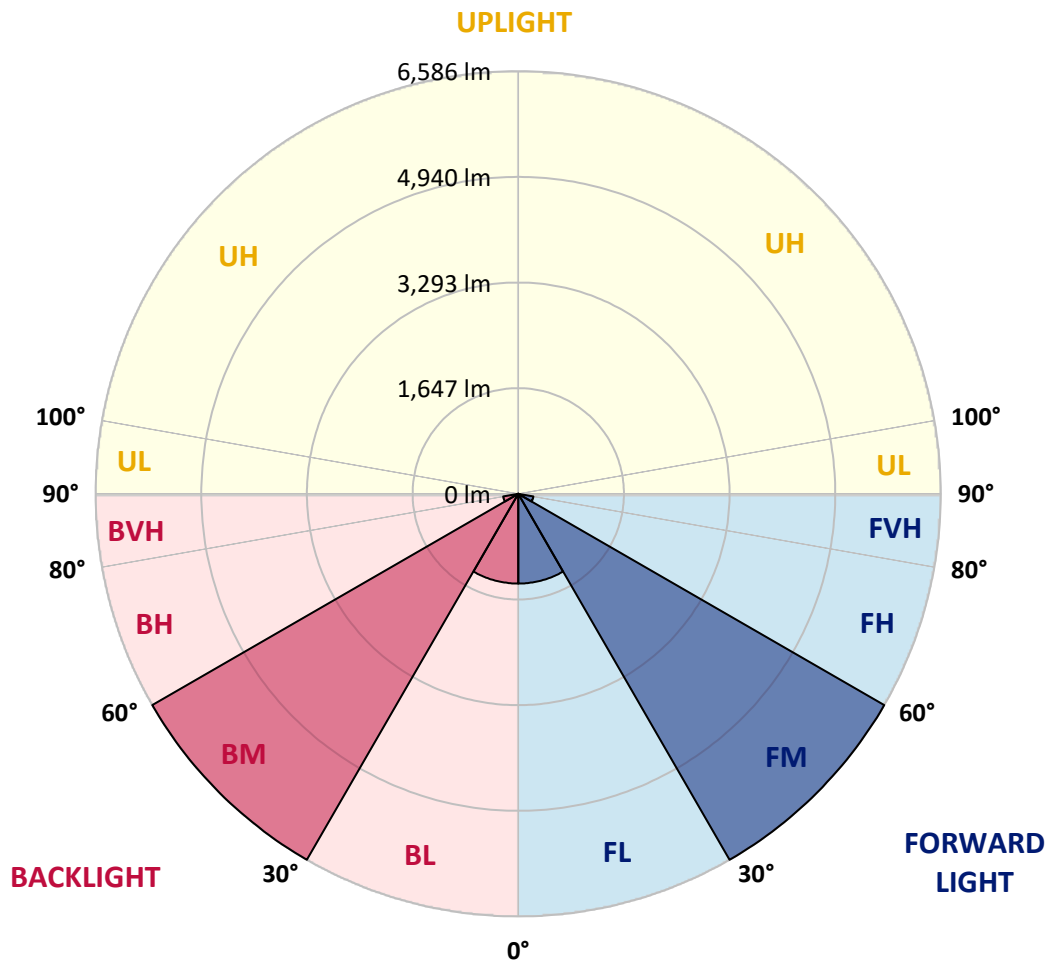


REPORT NUMBER: P652371
 CATALOG NUMBER: GALN-SA5B-840-U-5NQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1398.4	8.5			
FM (30°-60°)	6586.2	40.0			
FH (60°-80°)	239.1	1.5			G0/660
FVH (80°-90°)	7.9	0.0			G0/10
BL (0°-30°)	1398.4	8.5	B3/2500		
BM (30°-60°)	6586.2	40.0	B4/8500		
BH (60°-80°)	239.1	1.5	B1/500		G0/660
BVH (80°-90°)	7.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0
 Type V Short





REPORT NUMBER: P652371
 CATALOG NUMBER: GALN-SA5B-840-U-5NQ-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2699.5	2699.5	2699.5	2699.5	2699.5	2699.5	2699.5	2699.5	2699.5	2699.5	2699.5
2.5°	2712.6	2728.2	2717.8	2725.6	2725.6	2712.6	2720.4	2689.0	2710.0	2694.3	2696.9
5°	2754.3	2751.7	2751.7	2754.3	2743.8	2749.1	2738.6	2728.2	2720.4	2710.0	2741.2
7.5°	2806.4	2806.4	2788.2	2793.4	2788.2	2796.0	2775.1	2754.3	2746.5	2738.6	2733.4
10°	2856.0	2850.7	2842.9	2866.4	2848.1	2837.7	2827.3	2814.2	2785.6	2775.1	2764.7
12.5°	2929.0	2926.4	2916.0	2939.5	2929.0	2939.5	2900.4	2866.4	2861.2	2827.3	2845.5
15°	3015.1	3038.5	3020.3	3020.3	3015.1	3002.0	2986.4	2970.7	2923.8	2910.8	2913.4
17.5°	3127.3	3119.4	3122.0	3122.0	3148.1	3114.2	3082.9	3043.7	3020.3	3012.5	2986.4
20°	3234.1	3244.6	3242.0	3260.2	3275.9	3239.4	3205.5	3200.3	3135.1	3145.5	3109.0
22.5°	3421.9	3414.1	3427.2	3440.2	3429.8	3424.6	3393.3	3354.2	3296.8	3270.6	3265.4
25°	3620.2	3607.1	3583.7	3615.0	3630.6	3654.1	3594.1	3573.2	3484.5	3445.4	3448.0
27.5°	3789.7	3808.0	3834.0	3847.1	3886.2	3878.4	3836.6	3768.9	3701.1	3656.7	3628.0
30°	4021.8	4032.3	4076.6	4094.9	4162.7	4180.9	4115.8	4037.5	3917.5	3860.1	3826.2
32.5°	4235.7	4308.8	4306.2	4397.4	4507.0	4582.6	4465.2	4345.3	4225.3	4157.5	4097.5
35°	4582.6	4569.6	4645.2	4741.7	4919.1	5005.1	4877.3	4739.1	4556.5	4447.0	4400.0
37.5°	4906.1	4911.3	5012.9	5166.9	5370.3	5503.3	5391.1	5164.2	4976.4	4835.6	4770.4
40°	5375.5	5385.9	5490.3	5665.0	5894.6	6038.0	5907.6	5678.0	5427.6	5318.1	5318.1
42.5°	5925.9	5970.2	6038.0	6189.3	6395.3	6554.4	6437.0	6257.0	6004.1	5863.2	5884.1
45°	6491.8	6512.7	6557.0	6781.3	6877.9	6956.1	6846.5	6763.1	6593.5	6421.4	6392.7
47.5°	7021.3	7029.1	7159.5	7229.9	7305.6	7240.3	7310.8	7201.2	7010.8	6843.9	6810.0
50°	7256.0	7242.9	7428.1	7642.0	7699.4	7584.6	7524.7	7451.6	7162.1	6961.3	6872.6
52.5°	6572.7	6648.3	6992.6	7587.2	8035.8	8132.4	7782.9	7446.4	6906.5	6515.3	6455.3
54°	5790.2	5860.6	6144.9	7026.5	7960.2	8286.3	7722.9	7008.2	6246.6	5782.4	5722.4
55°	5015.6	4937.3	5453.7	6353.6	7605.5	8150.6	7485.6	6442.2	5571.1	5146.0	5062.5
57.5°	2715.2	2728.2	3163.8	4014.0	5344.2	6249.2	5519.0	4358.3	3291.6	2814.2	2772.5
60°	860.7	881.5	1071.9	1622.3	2553.4	3049.0	2613.4	1750.1	1210.2	970.3	931.2
62.5°	268.6	279.0	305.2	453.8	699.0	998.9	782.5	469.4	349.5	320.8	326.1
65°	164.3	164.3	166.9	177.4	208.7	242.5	234.7	206.0	198.2	193.0	190.4
67.5°	107.0	104.4	109.6	117.4	122.6	125.2	133.0	140.9	138.3	133.0	133.0
70°	65.2	62.6	67.8	78.2	80.8	86.0	93.9	104.4	101.8	96.5	99.1
72.5°	36.5	36.5	39.1	46.9	54.7	60.0	67.8	75.6	78.2	75.6	75.6
75°	13.0	15.6	20.9	28.7	33.9	41.7	49.5	57.4	65.2	60.0	57.4
77.5°	5.2	5.2	10.4	18.2	26.1	33.9	46.9	54.7	60.0	54.7	49.5
80°	2.6	2.6	7.8	15.6	23.5	31.3	39.1	46.9	49.5	44.3	39.1
82.5°	2.6	2.6	7.8	15.6	23.5	28.7	41.7	46.9	52.1	46.9	39.1
85°	0.0	2.6	7.8	15.6	20.9	23.5	23.5	15.6	13.0	7.8	7.8
87.5°	0.0	0.0	2.6	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)