

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: P652044

Luminaire Tested: **GALN-SA8A-840-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652044
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-840-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16199.3 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

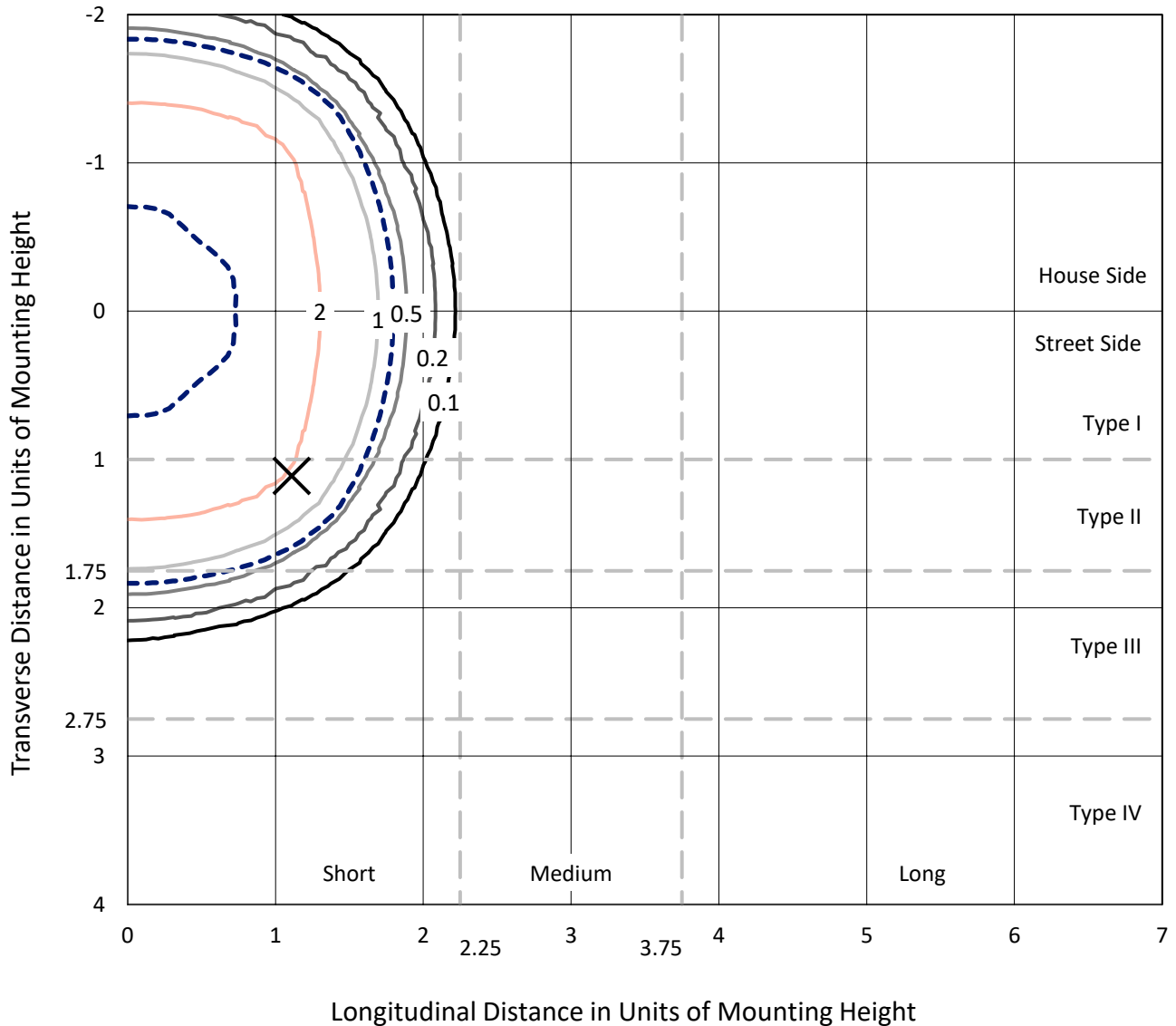
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652044
 CATALOG NUMBER: GALN-SA8A-840-U-5WQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

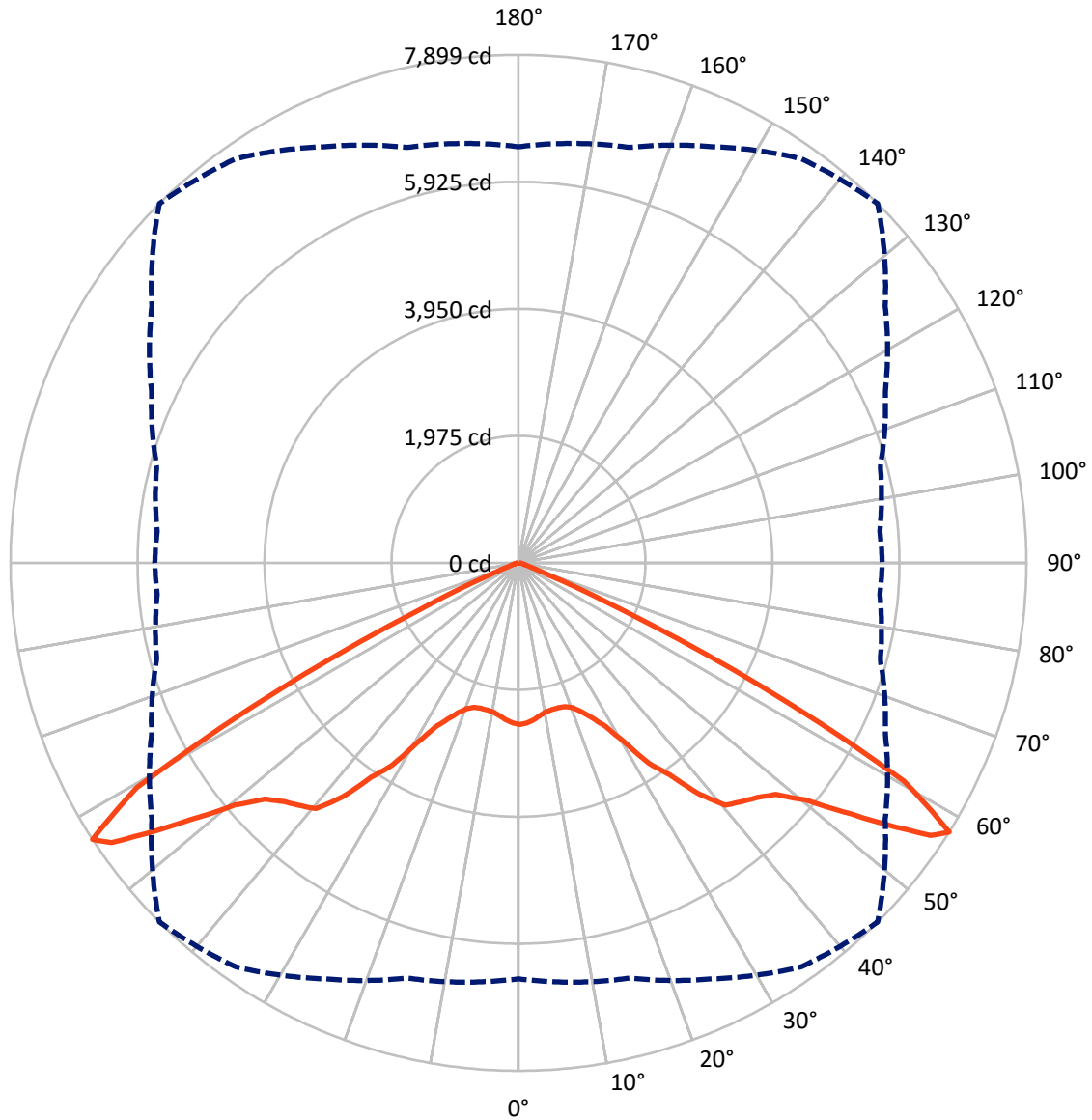
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - N/A

REPORT NUMBER: P652044
CATALOG NUMBER: GALN-SA8A-840-U-5WQ-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P652044
 CATALOG NUMBER: GALN-SA8A-840-U-5WQ-GRSBK

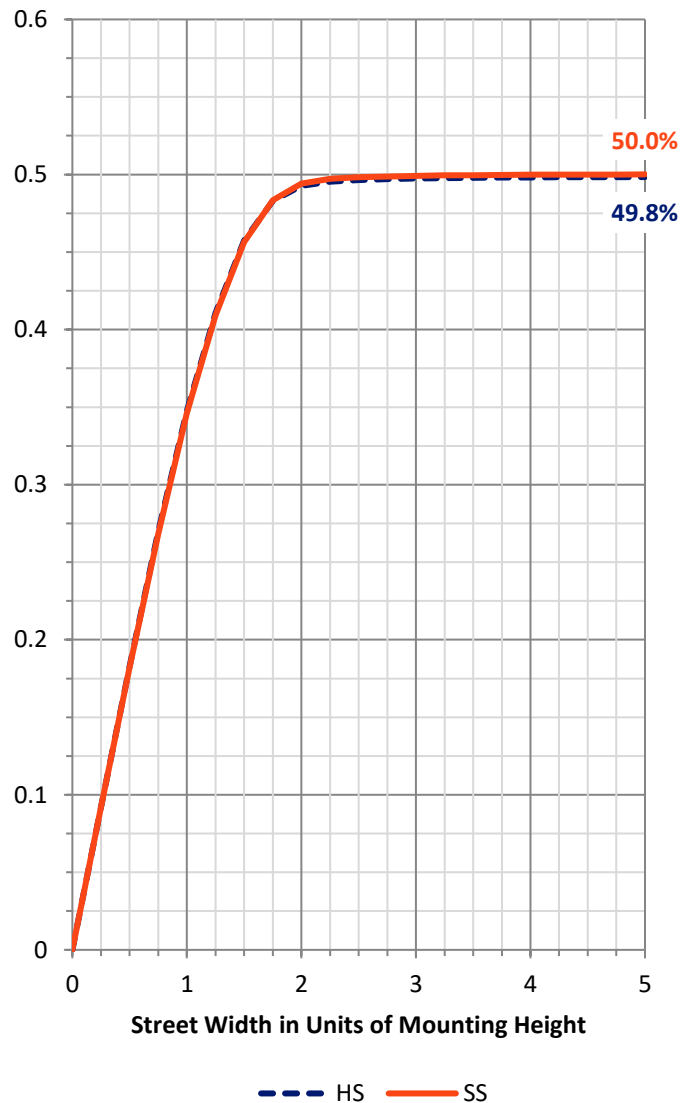
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8099.7	0.0	8099.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8099.7	0.0	8099.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	16199.3	0.0	16199.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.9	1.4
10°-20°	667.4	4.1
20°-30°	1232.0	7.6
30°-40°	2422.8	15.0
40°-50°	3946.1	24.4
50°-60°	5627.6	34.7
60°-70°	1948.4	12.0
70°-80°	104.5	0.6
80°-90°	19.6	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°	16199.3	100.0
0°-180°	16199.3	100.0

Coefficient of Utilization



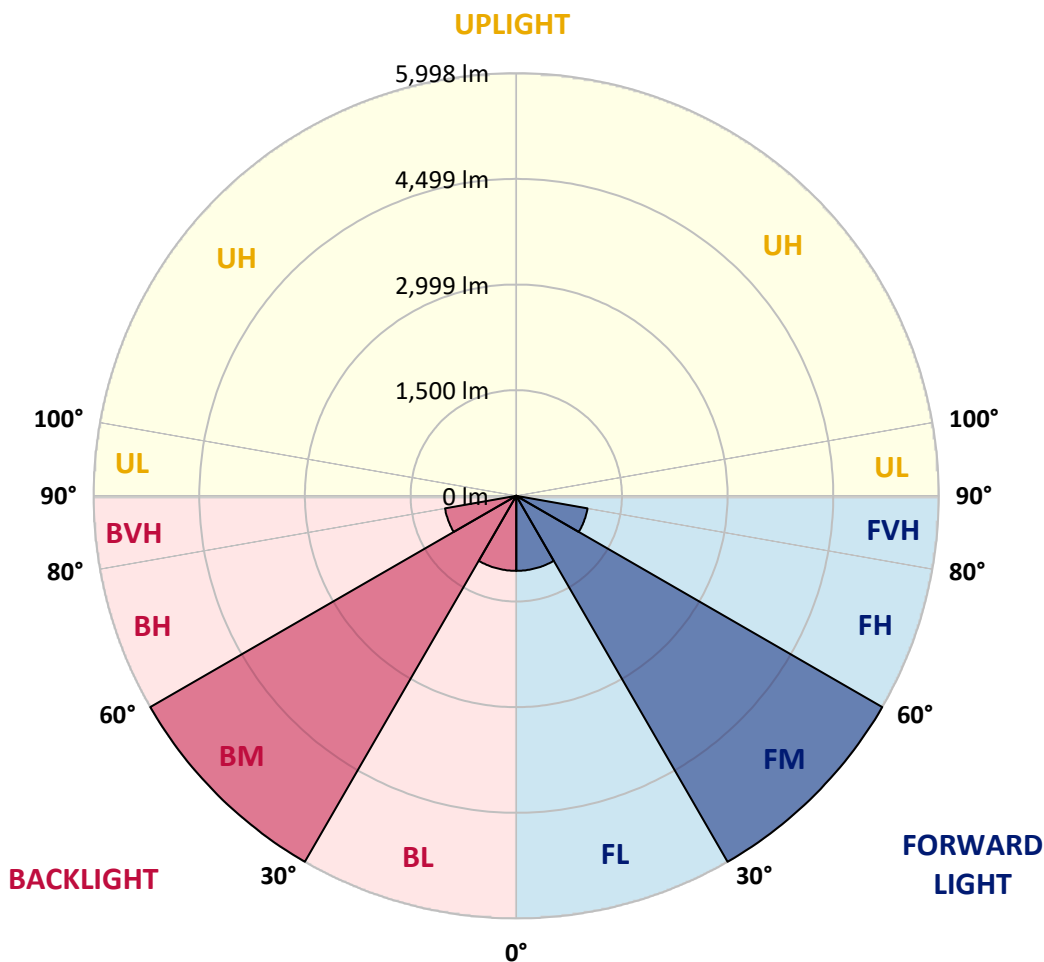
REPORT NUMBER: P652044
 CATALOG NUMBER: GALN-SA8A-840-U-5WQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1065.1	6.6			
FM	(30°-60°)	5998.2	37.0			
FH	(60°-80°)	1026.5	6.3			G1/1800
FVH	(80°-90°)	9.8	0.1			G0/10
BL	(0°-30°)	1065.1	6.6	B3/2500		
BM	(30°-60°)	5998.2	37.0	B4/8500		
BH	(60°-80°)	1026.5	6.3	B3/2500		G1/1800
BVH	(80°-90°)	9.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





REPORT NUMBER: P652044

CATALOG NUMBER: GALN-SA8A-840-U-5WQ-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2512.7	2512.7	2512.7	2512.7	2512.7	2512.7	2512.7	2512.7	2512.7	2512.7	2512.7
2.5°	2505.9	2519.5	2502.6	2495.8	2492.4	2492.4	2482.3	2482.3	2478.9	2482.3	2468.8
5°	2465.4	2478.9	2478.9	2475.6	2455.3	2451.9	2441.8	2435.0	2438.4	2424.9	2435.0
7.5°	2424.9	2435.0	2421.5	2418.1	2411.4	2397.9	2394.5	2364.1	2367.5	2367.5	2374.2
10°	2418.1	2414.8	2394.5	2377.6	2357.3	2354.0	2343.8	2337.1	2337.1	2333.7	2343.8
12.5°	2418.1	2401.2	2397.9	2360.7	2327.0	2340.4	2313.4	2296.5	2320.2	2327.0	2340.4
15°	2414.8	2431.7	2374.2	2357.3	2333.7	2337.1	2313.4	2296.5	2310.1	2316.8	2327.0
17.5°	2435.0	2424.9	2408.0	2374.2	2364.1	2350.6	2320.2	2306.7	2306.7	2323.6	2327.0
20°	2489.0	2462.0	2428.2	2411.4	2421.5	2404.6	2367.5	2316.8	2330.3	2343.8	2354.0
22.5°	2539.7	2519.5	2495.8	2485.7	2543.1	2516.1	2451.9	2394.5	2374.2	2397.9	2414.8
25°	2637.6	2637.6	2593.7	2607.3	2671.4	2674.8	2600.5	2499.2	2485.7	2495.8	2502.6
27.5°	2836.9	2847.0	2809.9	2823.4	2850.4	2874.0	2809.9	2725.4	2695.1	2691.7	2701.8
30°	3053.1	3073.4	3069.9	3127.3	3205.1	3218.5	3124.0	2985.5	2894.3	2877.4	2890.9
32.5°	3336.8	3346.8	3340.1	3407.6	3617.1	3715.0	3468.5	3272.6	3151.0	3181.4	3151.0
35°	3870.4	3860.2	3785.9	3799.4	3971.7	4042.6	3806.2	3681.2	3623.8	3684.6	3671.0
37.5°	4329.6	4292.5	4231.7	4319.5	4498.5	4562.7	4316.2	4096.6	3991.9	4093.2	4137.1
40°	4718.0	4623.5	4539.0	4626.8	4866.6	4954.4	4593.1	4414.1	4373.5	4447.9	4542.4
42.5°	5045.7	4984.9	4873.4	4880.2	5038.9	5079.4	4789.0	4684.3	4643.7	4761.9	4809.3
45°	5278.7	5221.3	5116.6	5109.8	5231.4	5204.4	4944.3	4873.4	4897.1	4974.7	4998.3
47.5°	5396.9	5427.3	5366.5	5383.3	5447.5	5383.3	5177.4	5177.4	5123.3	5170.6	5146.9
50°	5738.0	5643.4	5721.1	5721.1	5788.6	5795.4	5589.4	5515.1	5369.9	5288.8	5288.8
52.5°	6136.5	6143.3	6173.6	6285.1	6399.9	6497.9	6204.1	5886.6	5643.4	5538.7	5525.2
55°	6464.1	6531.6	6653.2	6862.6	7193.6	7328.6	6822.1	6254.7	5957.5	5795.4	5761.6
56°	6643.1	6578.9	6788.3	7075.4	7507.7	7683.3	6923.4	6329.0	6001.4	5819.0	5815.7
57.5°	6470.8	6541.8	6687.0	7139.6	7669.8	7899.4	6960.5	6295.2	5825.8	5640.0	5656.9
60°	5109.8	5177.4	5373.2	5879.9	6710.6	6889.6	5889.9	5190.8	4772.1	4505.2	4508.7
62.5°	2890.9	2941.6	3093.6	3563.0	4079.8	4252.0	3671.0	3205.1	2914.6	2766.0	2718.7
65°	1063.9	1043.6	1067.2	1307.0	1624.5	1769.7	1526.5	1290.1	1138.1	1084.1	1063.9
67.5°	398.5	368.1	344.5	368.1	462.7	489.7	449.2	374.9	351.2	361.4	368.1
70°	246.6	233.0	185.8	175.6	172.2	168.9	179.0	189.1	216.1	253.3	260.0
72.5°	172.2	162.1	131.7	125.0	118.2	114.8	131.7	145.2	168.9	195.9	199.2
75°	67.5	70.9	67.5	74.3	77.7	81.1	94.5	104.7	114.8	114.8	111.4
77.5°	13.5	13.5	20.3	27.0	33.8	43.9	64.2	74.3	77.7	74.3	64.2
80°	0.0	0.0	6.7	13.5	27.0	37.2	57.4	64.2	70.9	64.2	50.6
82.5°	0.0	0.0	6.7	16.9	27.0	33.8	54.1	67.5	77.7	70.9	54.1
85°	0.0	0.0	6.7	13.5	20.3	23.6	23.6	16.9	16.9	10.1	6.7
87.5°	0.0	0.0	0.0	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)