

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: P647311

Luminaire Tested: **GALN-SA3D-835-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647311
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-SA3D-835-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 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: 12422.3 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

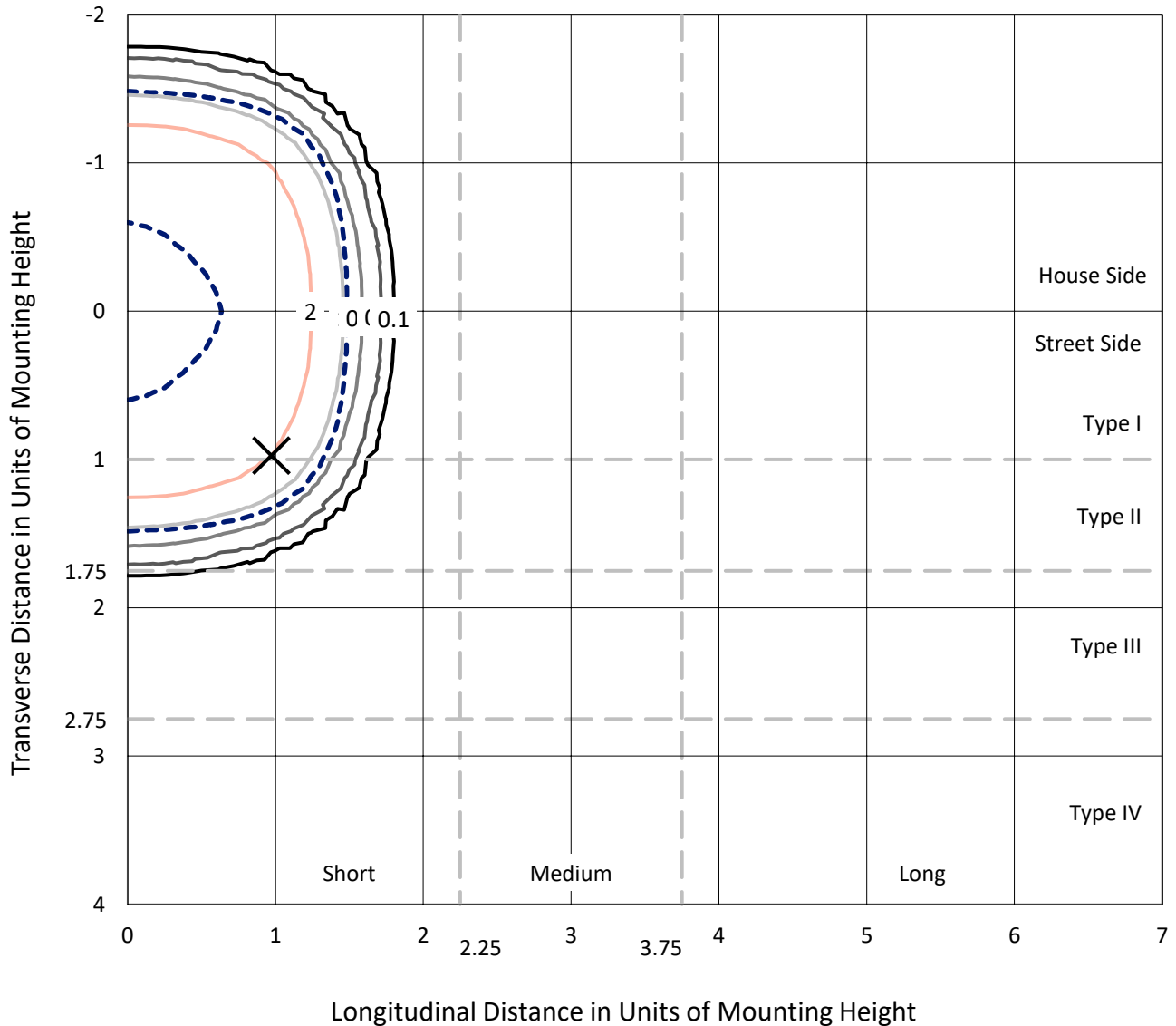
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647311
 CATALOG NUMBER: GALN-SA3D-835-U-5NQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

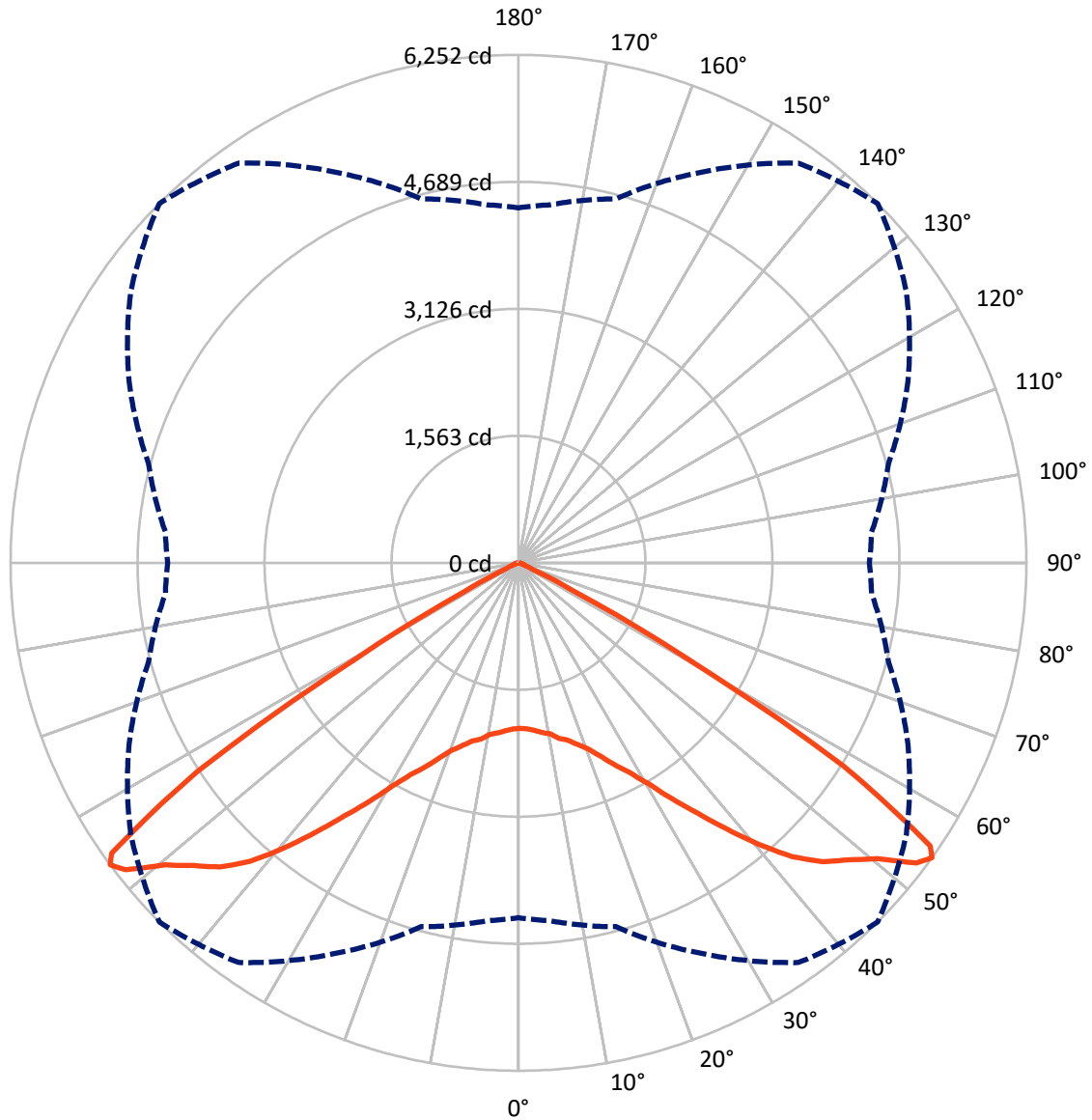
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - N/A

REPORT NUMBER: P647311
CATALOG NUMBER: GALN-SA3D-835-U-5NQ-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P647311
 CATALOG NUMBER: GALN-SA3D-835-U-5NQ-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6211.1	0.0	6211.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6211.1	0.0	6211.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	12422.3	0.0	12422.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.4	1.6
10°-20°	645.6	5.2
20°-30°	1265.4	10.2
30°-40°	2275.4	18.3
40°-50°	3895.0	31.4
50°-60°	3768.8	30.3
60°-70°	322.6	2.6
70°-80°	38.2	0.3
80°-90°	12.0	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°	12422.3	100.0
0°-180°	12422.3	100.0

Coefficient of Utilization



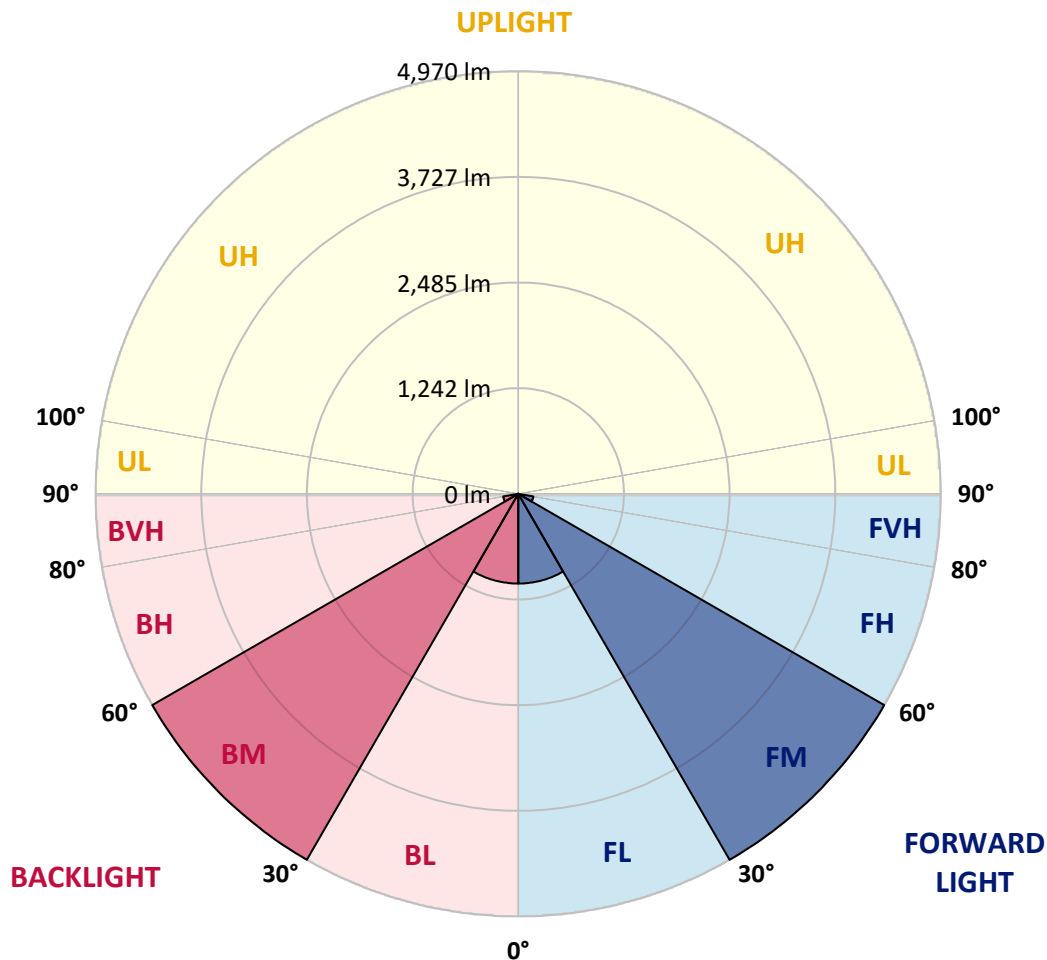
REPORT NUMBER: P647311
 CATALOG NUMBER: GALN-SA3D-835-U-5NQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1055.2	8.5			
FM (30°-60°)	4969.6	40.0			
FH (60°-80°)	180.4	1.5			G0/660
FVH (80°-90°)	6.0	0.0			G0/10
BL (0°-30°)	1055.2	8.5	B3/2500		
BM (30°-60°)	4969.6	40.0	B3/5000		
BH (60°-80°)	180.4	1.5	B1/500		G0/660
BVH (80°-90°)	6.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0

Type V Short





REPORT NUMBER: P647311
 CATALOG NUMBER: GALN-SA3D-835-U-5NQ-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2036.9	2036.9	2036.9	2036.9	2036.9	2036.9	2036.9	2036.9	2036.9	2036.9	2036.9
2.5°	2046.7	2058.5	2050.7	2056.5	2056.5	2046.7	2052.6	2029.0	2044.7	2032.9	2034.9
5°	2078.2	2076.2	2076.2	2078.2	2070.3	2074.2	2066.4	2058.5	2052.6	2044.7	2068.4
7.5°	2117.5	2117.5	2103.8	2107.7	2103.8	2109.7	2094.0	2078.2	2072.3	2066.4	2062.4
10°	2155.0	2151.0	2145.1	2162.8	2149.0	2141.2	2133.3	2123.5	2101.8	2094.0	2086.1
12.5°	2210.0	2208.1	2200.2	2217.9	2210.0	2217.9	2188.4	2162.8	2158.9	2133.3	2147.1
15°	2275.0	2292.7	2278.9	2278.9	2275.0	2265.1	2253.3	2241.6	2206.1	2196.3	2198.3
17.5°	2359.6	2353.7	2355.7	2355.7	2375.4	2349.8	2326.1	2296.6	2278.9	2273.0	2253.3
20°	2440.3	2448.2	2446.2	2460.0	2471.8	2444.2	2418.7	2414.7	2365.5	2373.4	2345.9
22.5°	2582.0	2576.1	2585.9	2595.8	2587.9	2584.0	2560.3	2530.8	2487.5	2467.9	2463.9
25°	2731.6	2721.7	2704.0	2727.7	2739.4	2757.2	2711.9	2696.2	2629.2	2599.7	2601.7
27.5°	2859.5	2873.3	2893.0	2902.8	2932.3	2926.4	2894.9	2843.8	2792.6	2759.1	2737.4
30°	3034.7	3042.5	3075.9	3089.7	3140.9	3154.7	3105.5	3046.4	2955.9	2912.6	2887.1
32.5°	3196.0	3251.1	3249.1	3318.0	3400.6	3457.7	3369.2	3278.7	3188.1	3137.0	3091.7
35°	3457.7	3447.9	3505.0	3577.8	3711.7	3776.6	3680.2	3575.8	3438.1	3355.4	3320.0
37.5°	3701.8	3705.7	3782.4	3898.6	4052.1	4152.5	4067.8	3896.6	3755.0	3648.6	3599.5
40°	4056.0	4063.9	4142.6	4274.5	4447.7	4555.9	4457.5	4284.3	4095.4	4012.7	4012.7
42.5°	4471.2	4504.8	4555.9	4670.0	4825.5	4945.6	4857.0	4721.2	4530.3	4424.0	4439.8
45°	4898.3	4914.1	4947.5	5116.7	5189.6	5248.6	5166.0	5103.0	4975.1	4845.2	4823.5
47.5°	5297.9	5303.7	5402.2	5455.2	5512.3	5463.1	5516.3	5433.6	5289.9	5164.0	5138.4
50°	5475.0	5465.1	5604.9	5766.2	5809.5	5722.9	5677.6	5622.6	5404.1	5252.6	5185.7
52.5°	4959.4	5016.4	5276.2	5724.9	6063.4	6136.2	5872.5	5618.6	5211.3	4916.1	4870.8
54°	4368.9	4422.1	4636.6	5301.8	6006.3	6252.3	5827.2	5288.0	4713.3	4363.0	4317.8
55°	3784.5	3725.4	4115.1	4794.0	5738.7	6150.0	5648.1	4860.9	4203.6	3882.8	3819.9
57.5°	2048.6	2058.5	2387.2	3028.7	4032.4	4715.3	4164.2	3288.5	2483.6	2123.5	2091.9
60°	649.4	665.2	808.8	1224.1	1926.6	2300.6	1971.9	1320.5	913.1	732.1	702.6
62.5°	202.7	210.5	230.3	342.4	527.4	753.7	590.4	354.2	263.7	242.0	246.0
65°	123.9	123.9	126.0	133.8	157.5	183.0	177.1	155.5	149.6	145.6	143.7
67.5°	80.6	78.7	82.7	88.6	92.5	94.4	100.4	106.3	104.3	100.4	100.4
70°	49.2	47.2	51.1	59.0	61.0	64.9	70.9	78.7	76.7	72.8	74.8
72.5°	27.6	27.6	29.5	35.4	41.3	45.3	51.1	57.1	59.0	57.1	57.1
75°	9.9	11.8	15.7	21.6	25.6	31.5	37.4	43.3	49.2	45.3	43.3
77.5°	3.9	3.9	7.9	13.8	19.7	25.6	35.4	41.3	45.3	41.3	37.4
80°	2.0	2.0	5.9	11.8	17.7	23.6	29.5	35.4	37.4	33.4	29.5
82.5°	2.0	2.0	5.9	11.8	17.7	21.6	31.5	35.4	39.4	35.4	29.5
85°	0.0	2.0	5.9	11.8	15.7	17.7	17.7	11.8	9.9	5.9	5.9
87.5°	0.0	0.0	2.0	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)