

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: P651217

Luminaire Tested: **GALN-SA2D-840-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651217
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-840-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11784.1 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

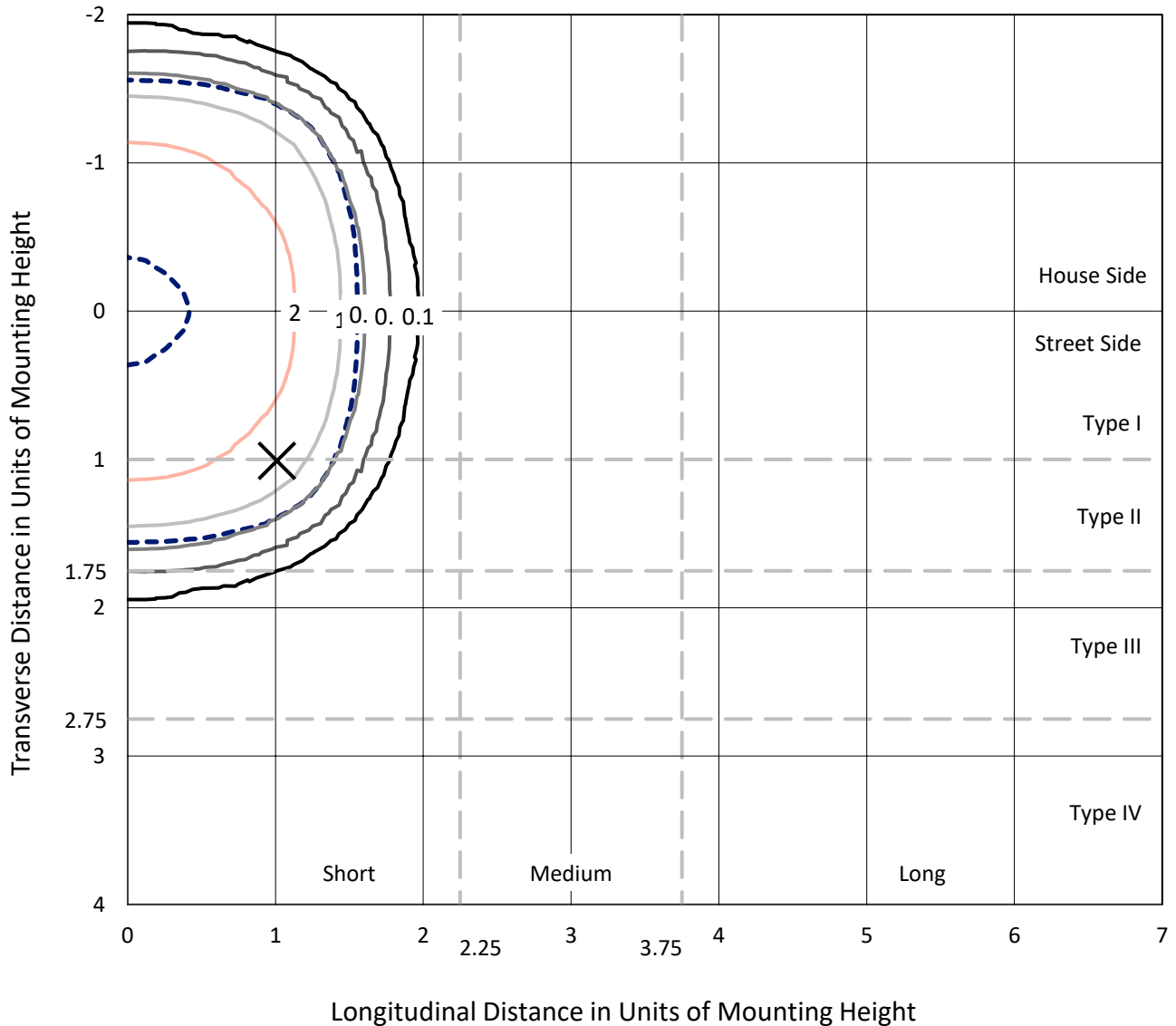
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651217
 CATALOG NUMBER: GALN-SA2D-840-U-5NQ-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

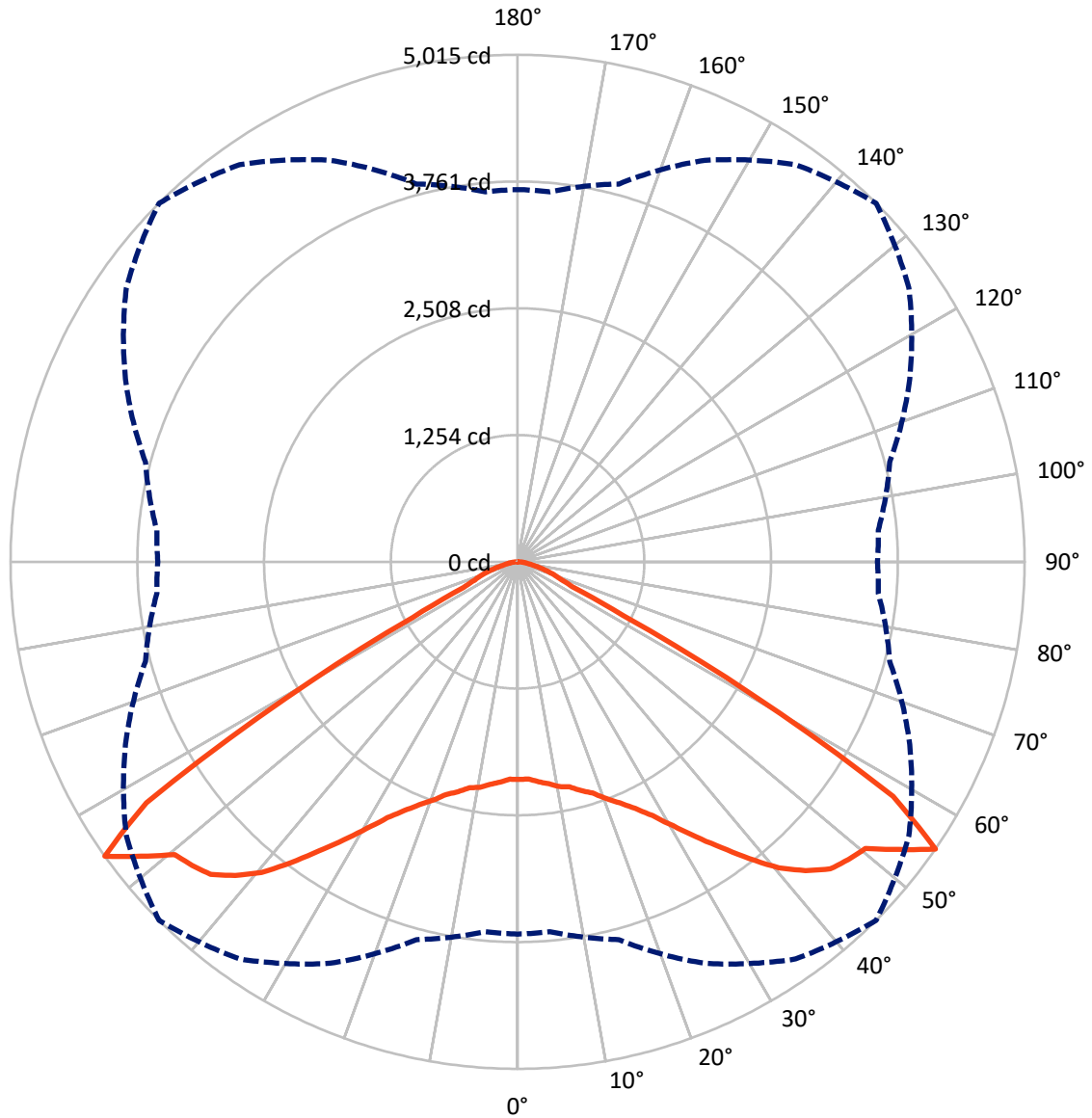
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - N/A

REPORT NUMBER: P651217
CATALOG NUMBER: GALN-SA2D-840-U-5NQ-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P651217
 CATALOG NUMBER: GALN-SA2D-840-U-5NQ-GRSWH

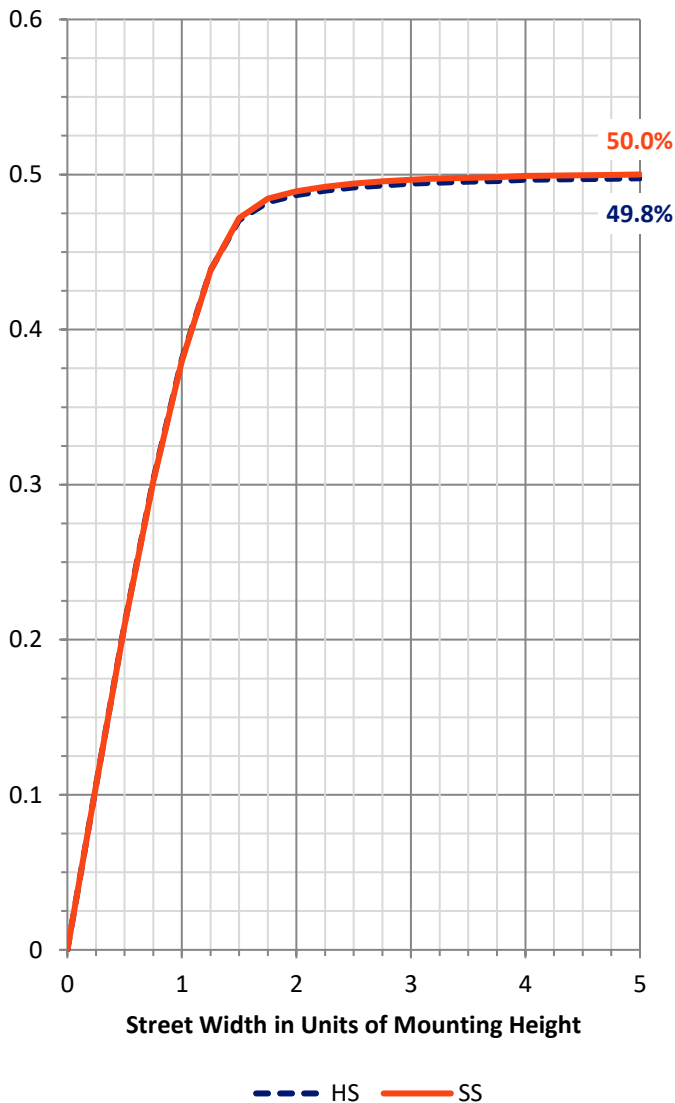
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5892.0	0.0	5892.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5892.0	0.0	5892.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	11784.1	0.0	11784.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.2	1.8
10°-20°	666.0	5.7
20°-30°	1241.9	10.5
30°-40°	2079.3	17.6
40°-50°	3235.5	27.5
50°-60°	3359.5	28.5
60°-70°	712.4	6.0
70°-80°	234.6	2.0
80°-90°	44.7	0.4
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°	11784.1	100.0
0°-180°	11784.1	100.0

Coefficient of Utilization



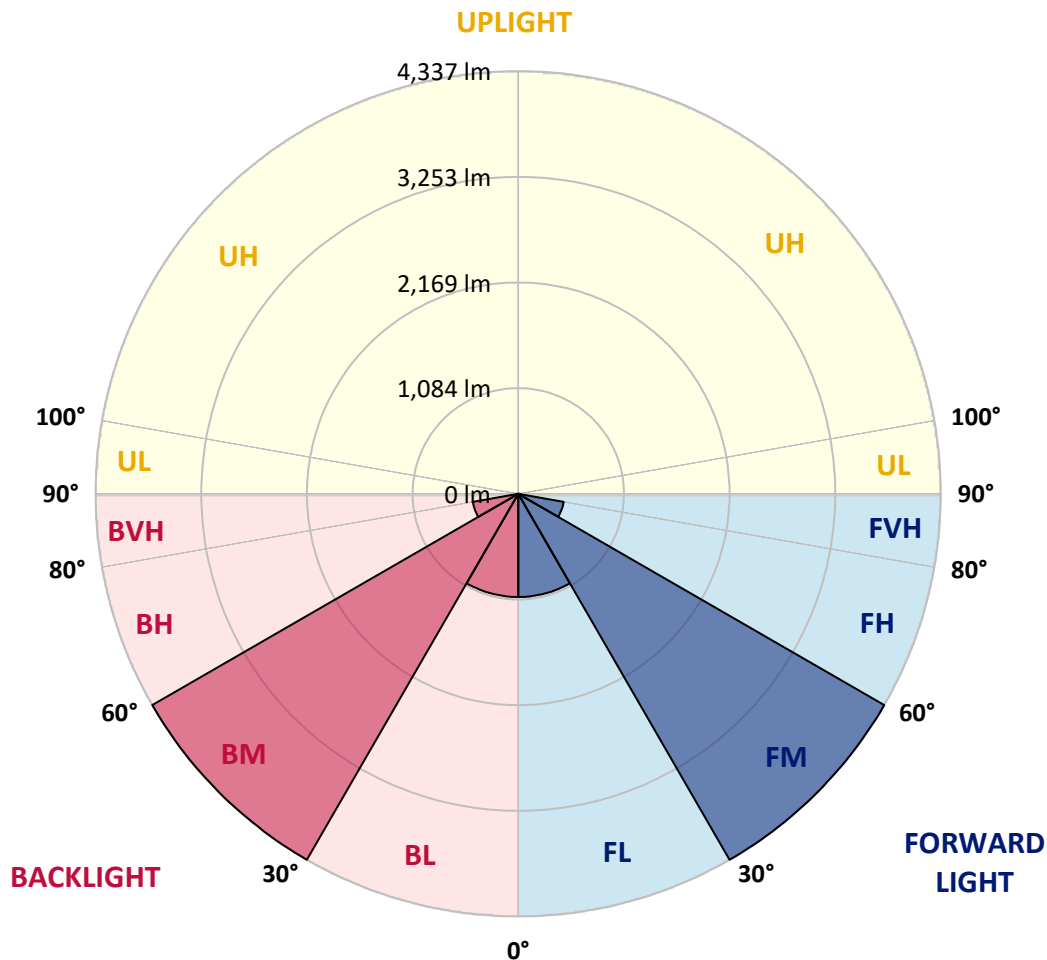
REPORT NUMBER: P651217
 CATALOG NUMBER: GALN-SA2D-840-U-5NQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1059.0	9.0			
FM (30°-60°)	4337.1	36.8			
FH (60°-80°)	473.5	4.0			G0/660
FVH (80°-90°)	22.3	0.2			G1/100
BL (0°-30°)	1059.0	9.0	B3/2500		
BM (30°-60°)	4337.1	36.8	B3/5000		
BH (60°-80°)	473.5	4.0	B1/500		G0/660
BVH (80°-90°)	22.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





REPORT NUMBER: P651217

CATALOG NUMBER: GALN-SA2D-840-U-5NQ-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2151.6	2151.6	2151.6	2151.6	2151.6	2151.6	2151.6	2151.6	2151.6	2151.6	2151.6
2.5°	2177.3	2167.3	2150.2	2163.0	2173.0	2151.6	2160.1	2164.4	2161.5	2150.2	2154.5
5°	2208.6	2202.8	2188.6	2198.6	2185.8	2185.8	2177.3	2165.8	2182.9	2180.0	2187.2
7.5°	2208.6	2201.4	2229.9	2211.4	2217.1	2217.1	2202.8	2191.5	2200.1	2187.2	2180.0
10°	2252.7	2262.6	2249.8	2254.1	2251.3	2261.3	2239.9	2232.8	2225.6	2221.3	2212.8
12.5°	2305.3	2298.3	2302.6	2299.7	2309.6	2284.0	2271.2	2255.6	2268.3	2249.8	2262.6
15°	2348.1	2343.9	2348.1	2359.5	2349.5	2348.1	2325.3	2309.6	2289.7	2294.0	2274.1
17.5°	2406.5	2402.2	2403.7	2413.6	2412.2	2405.1	2387.9	2358.1	2350.9	2339.6	2326.7
20°	2493.3	2486.2	2483.4	2487.7	2494.7	2500.5	2466.3	2454.9	2430.7	2412.2	2390.8
22.5°	2567.4	2564.5	2575.9	2557.4	2573.1	2590.2	2557.4	2551.8	2492.0	2482.0	2459.2
25°	2669.9	2665.6	2658.6	2685.6	2704.1	2702.6	2671.4	2640.0	2594.5	2583.0	2583.0
27.5°	2778.2	2753.9	2790.9	2798.1	2830.8	2840.8	2813.7	2768.2	2725.4	2701.2	2706.9
30°	2913.4	2890.6	2899.2	2950.5	2993.1	3030.2	2961.8	2894.9	2835.1	2792.4	2785.2
32.5°	3048.7	3025.9	3051.6	3101.4	3186.8	3242.4	3175.4	3058.6	2988.9	2926.3	2939.0
35°	3158.4	3175.4	3216.7	3292.2	3380.5	3470.2	3363.4	3273.7	3174.0	3104.2	3114.2
37.5°	3334.9	3387.6	3420.3	3507.2	3632.5	3725.0	3614.0	3497.2	3390.4	3299.3	3268.0
40°	3565.6	3601.2	3638.3	3740.8	3888.9	3981.4	3876.0	3723.6	3618.2	3524.3	3520.0
42.5°	3819.1	3853.2	3891.6	4017.0	4105.3	4175.1	4078.2	3997.0	3880.3	3806.2	3802.0
45°	4113.8	4089.6	4132.3	4214.9	4288.9	4334.5	4271.9	4232.0	4148.0	4079.6	4072.5
47.5°	4310.3	4288.9	4365.9	4439.9	4451.3	4401.5	4414.2	4451.3	4363.0	4250.5	4286.1
50°	4424.2	4424.2	4475.5	4543.8	4522.5	4458.4	4559.5	4562.3	4474.0	4374.4	4374.4
52.5°	4226.3	4270.4	4415.7	4639.3	4710.4	4728.9	4706.2	4609.4	4378.7	4175.1	4165.1
55°	3682.3	3672.4	3868.9	4381.5	4795.9	5015.2	4724.7	4279.0	3810.5	3581.2	3558.4
57.5°	2395.1	2406.5	2699.9	3222.4	3970.0	4378.7	3888.9	3262.3	2699.9	2383.7	2413.6
60°	1077.9	1116.3	1294.4	1684.5	2326.7	2659.9	2332.4	1770.0	1358.5	1179.0	1194.7
62.5°	619.4	626.5	633.7	751.9	991.0	1171.9	1029.6	794.6	700.6	669.3	669.3
65°	522.6	518.3	519.7	529.7	555.3	592.4	576.7	555.3	558.2	555.3	551.1
67.5°	444.3	449.9	445.7	452.8	454.2	459.9	469.9	478.4	479.9	482.7	479.9
70°	364.6	365.9	368.8	374.5	375.9	380.2	394.4	401.6	405.9	405.9	411.5
72.5°	279.1	277.7	280.6	286.2	293.3	294.8	307.6	317.6	323.2	316.1	317.6
75°	183.7	185.1	189.4	193.7	203.6	213.6	217.9	227.8	229.3	232.1	225.0
77.5°	109.7	112.5	116.7	125.3	133.9	142.4	152.4	159.5	162.3	159.5	151.0
80°	71.2	71.2	76.9	84.0	93.9	101.1	106.8	112.5	116.7	112.5	109.7
82.5°	44.2	44.2	51.3	59.8	66.9	71.2	79.7	86.9	91.2	88.3	84.0
85°	22.8	24.2	29.9	37.0	42.7	45.6	44.2	39.9	35.6	34.1	31.3
87.5°	7.1	7.1	8.6	8.6	7.1	7.1	8.6	7.1	8.6	8.6	8.6
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)