

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: P651888

Luminaire Tested: **GALN-SA5A-840-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651888
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-840-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19871.1 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

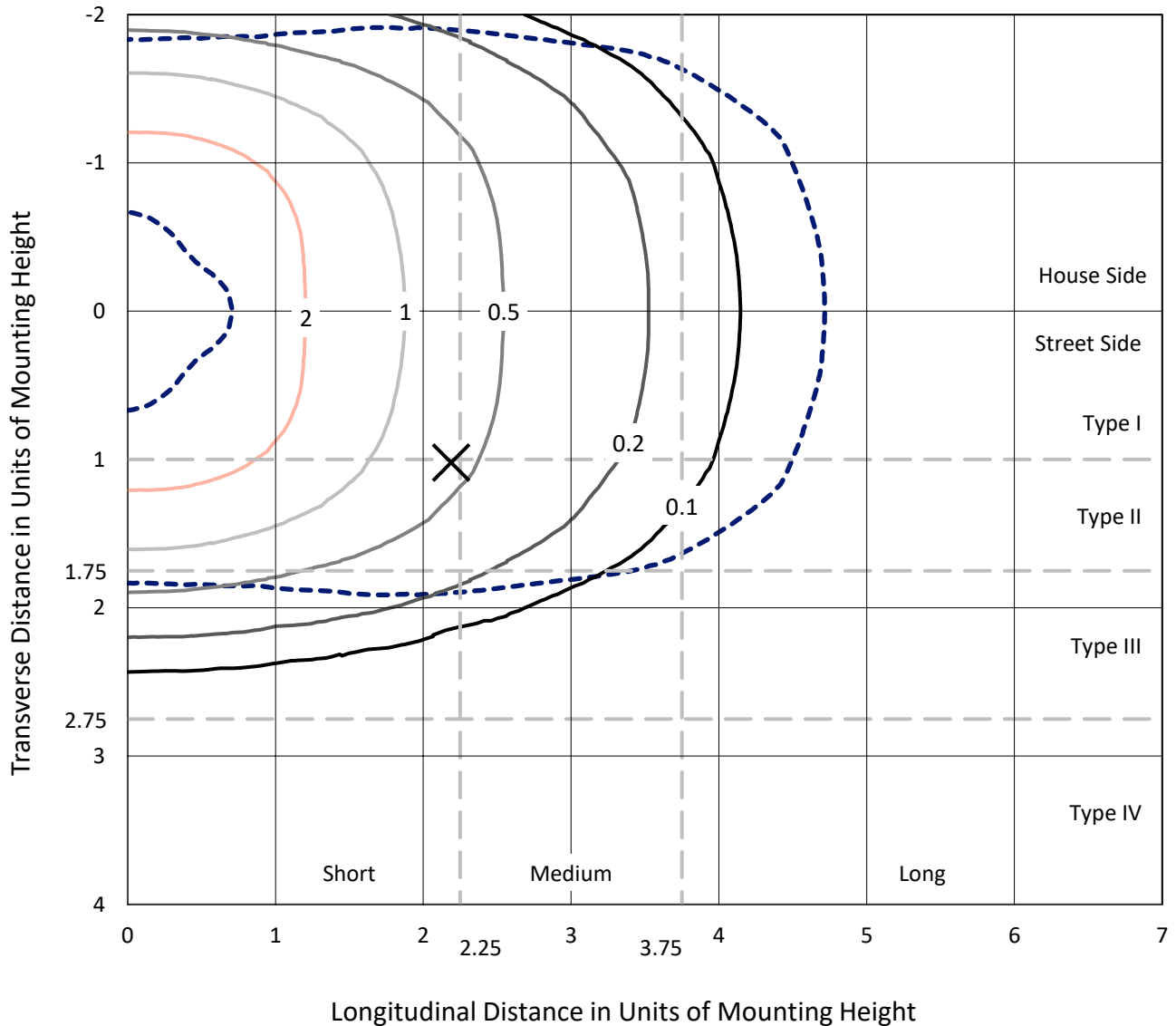
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651888
 CATALOG NUMBER: GALN-SA5A-840-U-RW

Iso-Footcandle Lines of Horizontal Illumination

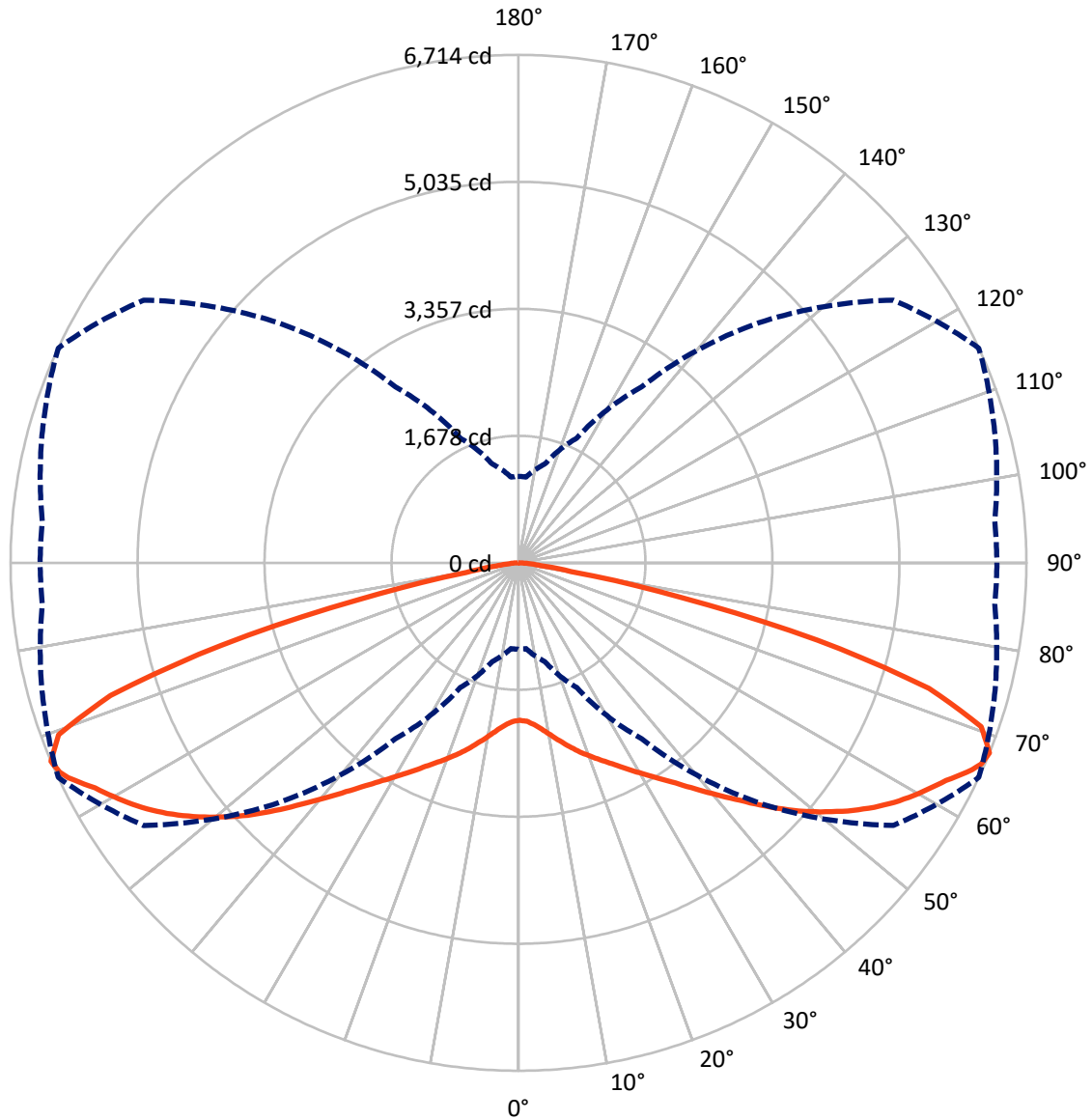
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Short - N/A

REPORT NUMBER: P651888
CATALOG NUMBER: GALN-SA5A-840-U-RW

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P651888
 CATALOG NUMBER: GALN-SA5A-840-U-RW

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9935.6	0.0	9935.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9935.6	0.0	9935.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	19871.1	0.0	19871.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.3	1.0
10°-20°	687.0	3.5
20°-30°	1343.9	6.8
30°-40°	2285.8	11.5
40°-50°	3617.7	18.2
50°-60°	4797.0	24.1
60°-70°	4525.0	22.8
70°-80°	2237.0	11.3
80°-90°	172.4	0.9
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°	19871.1	100.0
0°-180°	19871.1	100.0

Coefficient of Utilization

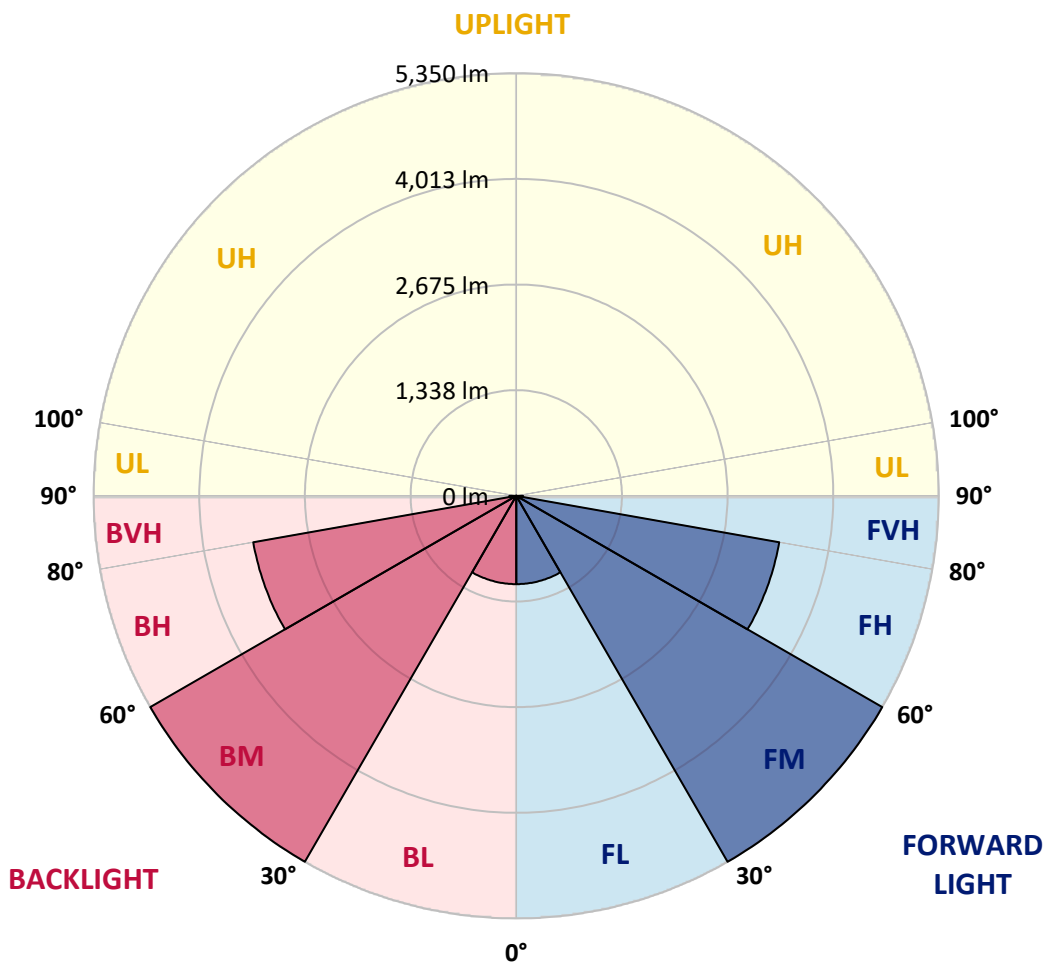


REPORT NUMBER: P651888
 CATALOG NUMBER: GALN-SA5A-840-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1118.1	5.6			
FM (30°-60°)	5350.3	26.9			
FH (60°-80°)	3381.0	17.0			G2/5000
FVH (80°-90°)	86.2	0.4			G1/100
BL (0°-30°)	1118.1	5.6	B3/2500		
BM (30°-60°)	5350.3	26.9	B4/8500		
BH (60°-80°)	3381.0	17.0	B4/5000		G4/5000
BVH (80°-90°)	86.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type III Short





REPORT NUMBER: P651888
 CATALOG NUMBER: GALN-SA5A-840-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2081.3	2081.3	2081.3	2081.3	2081.3	2081.3	2081.3	2081.3	2081.3	2081.3	2081.3
2.5°	2070.7	2072.8	2074.9	2078.1	2082.4	2088.8	2093.0	2096.2	2104.8	2105.8	2104.8
5°	2063.2	2065.3	2070.7	2080.3	2094.1	2113.3	2128.2	2146.2	2160.1	2169.7	2167.6
7.5°	2062.1	2066.4	2074.9	2095.2	2121.8	2154.8	2188.9	2219.7	2246.3	2267.7	2264.5
10°	2079.2	2084.5	2098.4	2128.2	2169.7	2217.6	2265.5	2311.3	2349.6	2377.3	2386.8
12.5°	2108.0	2112.2	2137.7	2182.5	2242.1	2301.7	2356.0	2412.4	2465.6	2512.5	2512.5
15°	2158.0	2165.4	2197.4	2262.3	2335.8	2405.0	2460.3	2520.0	2577.4	2630.6	2646.6
17.5°	2227.2	2237.8	2285.8	2368.8	2462.4	2526.4	2578.5	2627.5	2677.5	2728.6	2736.0
20°	2321.9	2332.6	2396.4	2496.5	2607.3	2683.9	2719.0	2730.7	2755.2	2804.2	2810.6
22.5°	2450.8	2461.4	2532.8	2645.5	2769.1	2852.1	2867.1	2839.3	2832.9	2871.3	2875.5
25°	2596.6	2606.2	2688.2	2809.5	2937.3	3027.8	3023.5	2955.4	2917.1	2940.5	2946.9
27.5°	2760.6	2774.4	2857.5	2983.0	3121.5	3201.3	3188.6	3089.5	3007.6	3003.3	3005.4
30°	2970.2	2985.2	3063.9	3184.3	3320.5	3394.0	3367.4	3234.3	3107.6	3065.0	3065.0
32.5°	3191.8	3229.0	3308.8	3434.5	3540.9	3594.2	3553.7	3394.0	3225.8	3166.2	3163.0
35°	3480.2	3500.5	3579.2	3701.7	3781.6	3823.0	3745.3	3573.9	3380.1	3309.9	3300.3
37.5°	3762.4	3779.4	3871.0	3988.0	4084.9	4082.8	3977.4	3787.9	3571.8	3493.0	3486.6
40°	4050.8	4069.0	4173.3	4280.9	4377.7	4369.2	4241.4	4029.6	3799.6	3711.2	3728.3
42.5°	4301.0	4321.3	4439.5	4592.8	4680.1	4677.9	4530.0	4291.5	4051.9	3973.1	3988.0
45°	4528.9	4547.0	4684.3	4860.0	4987.7	5003.7	4841.9	4589.6	4343.7	4242.5	4246.8
47.5°	4689.7	4723.7	4867.5	5068.6	5242.2	5298.6	5139.9	4893.0	4609.8	4504.4	4510.8
50°	4812.0	4833.4	4989.8	5218.7	5438.1	5555.1	5427.4	5174.0	4875.9	4764.2	4779.1
52.5°	4827.0	4852.5	5022.9	5286.9	5567.9	5745.7	5682.9	5448.8	5147.4	5032.5	5064.4
55°	4705.6	4720.5	4923.9	5244.3	5619.1	5887.3	5903.3	5704.3	5406.1	5318.8	5340.1
57.5°	4359.6	4397.9	4655.6	5045.2	5548.7	5962.9	6068.3	5936.3	5668.0	5581.8	5615.9
60°	3792.2	3830.5	4089.2	4583.2	5283.7	5927.8	6204.6	6141.7	5905.4	5836.2	5854.4
62.5°	2971.3	2968.1	3288.6	3894.3	4756.7	5755.3	6305.7	6339.8	6139.6	6052.3	6080.0
65°	1925.9	1935.5	2245.3	2897.9	3961.4	5316.7	6328.1	6592.1	6369.6	6237.6	6257.8
66°	1549.0	1577.8	1840.7	2442.3	3555.8	5029.3	6261.0	6666.6	6439.9	6280.2	6289.8
67.5°	1143.4	1138.0	1354.2	1818.3	2839.3	4483.1	6051.2	6713.5	6519.7	6318.5	6322.7
70°	652.6	651.5	728.2	998.6	1669.3	3156.6	5100.6	6488.8	6681.6	6456.9	6445.2
72.5°	476.9	473.7	484.4	551.4	814.4	1593.7	3518.6	5671.2	6598.5	6434.6	6401.5
75°	400.3	398.1	396.0	404.5	456.7	721.8	1867.4	4079.6	5725.5	6039.6	6005.5
77.5°	326.8	326.8	327.9	325.8	327.9	380.0	774.0	2186.7	3486.6	3892.2	3987.0
80°	255.5	254.4	272.6	265.1	248.1	243.8	342.8	703.7	1157.2	1150.8	949.7
82.5°	188.5	175.7	207.6	202.3	183.1	155.4	200.2	300.2	386.4	251.3	186.3
85°	119.3	118.2	146.9	134.1	111.8	73.4	95.8	128.8	159.7	96.9	78.8
87.5°	21.3	20.3	46.8	34.1	34.1	21.3	26.6	35.2	52.1	36.2	26.6
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)