

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: P454048

Luminaire Tested: **GALN-SA5A-827-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454048
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-827-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17570 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

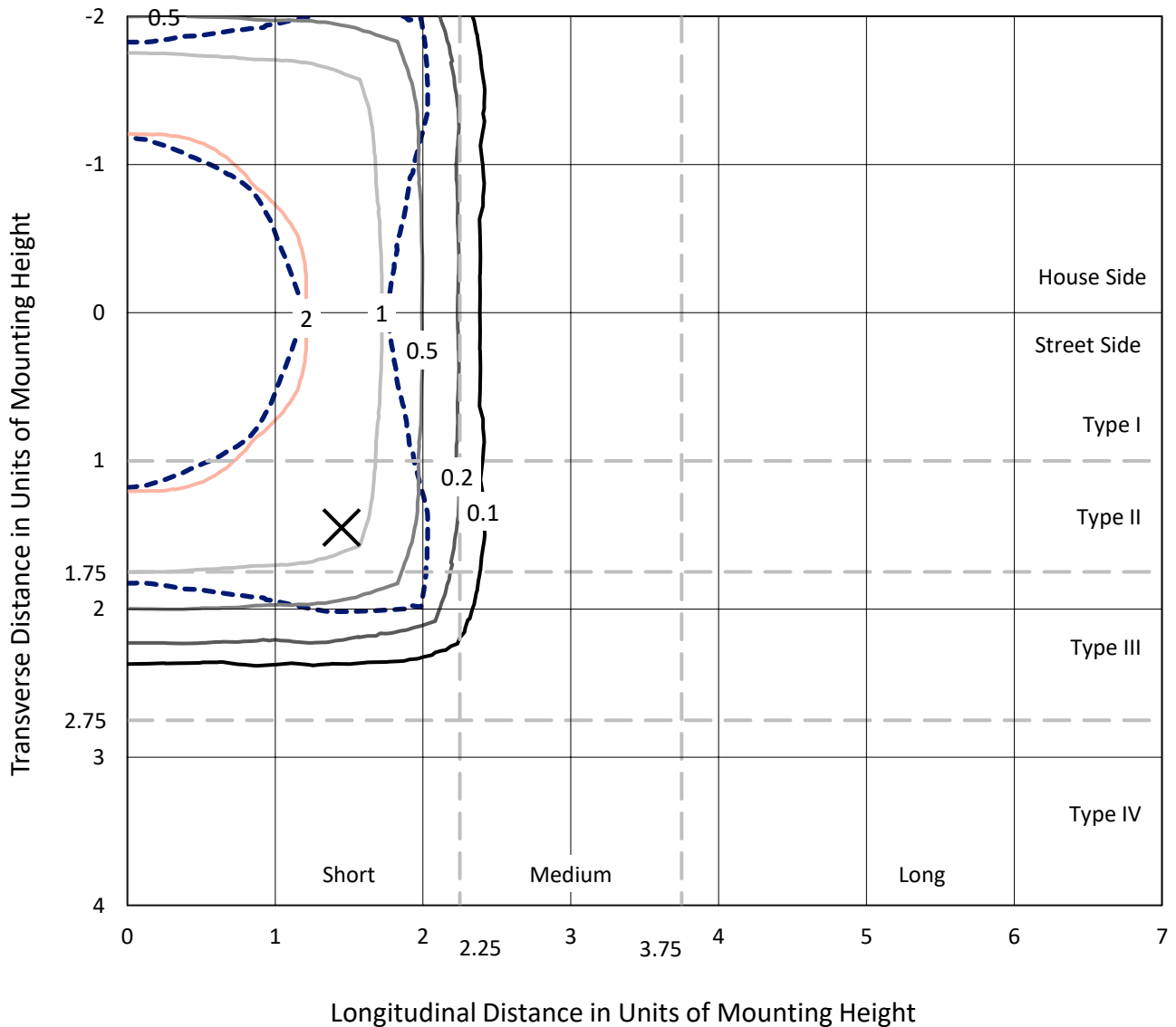
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

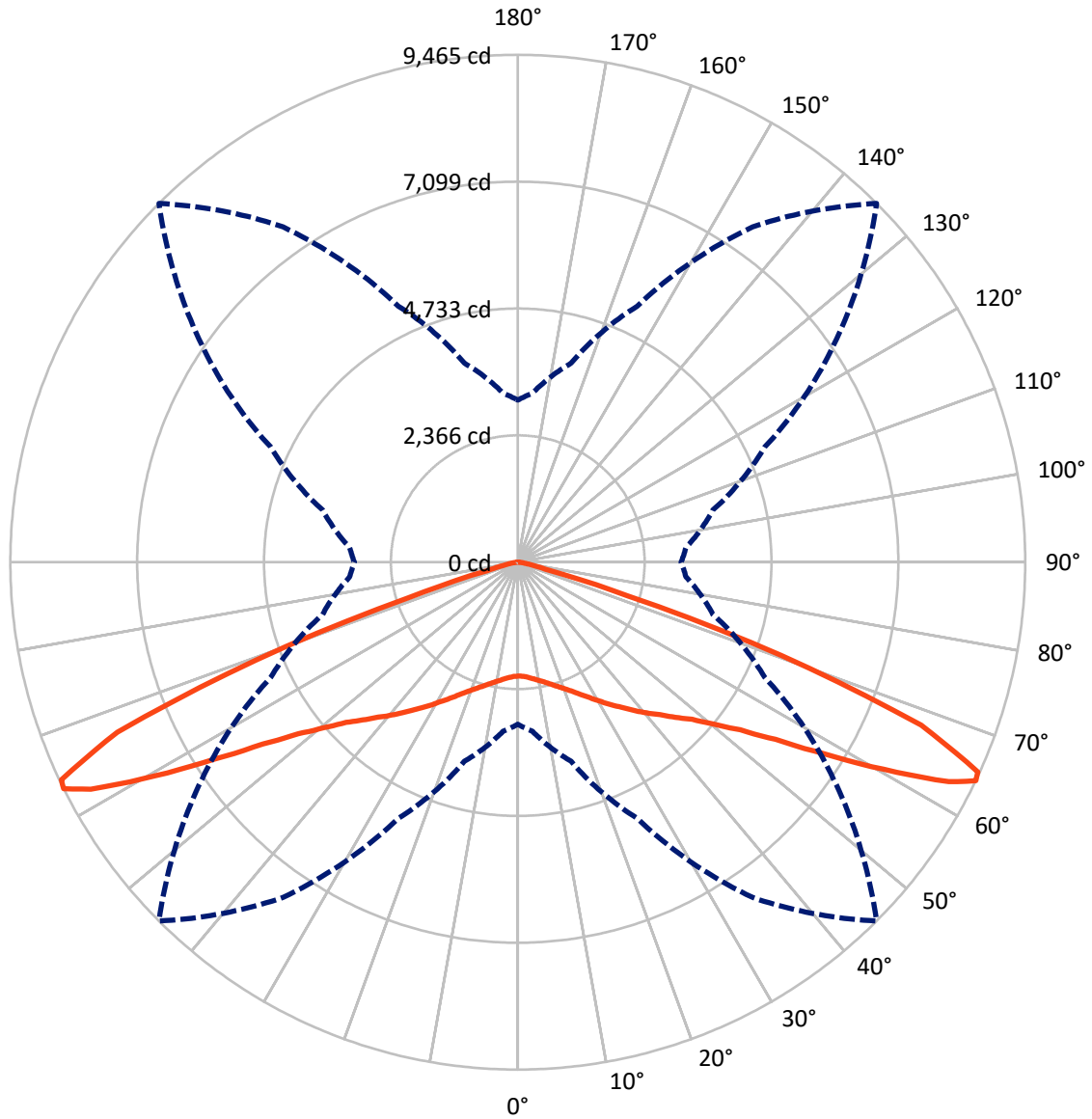
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8785.0	0.0	8785.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8785.0	0.0	8785.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17570.0	0.0	17570.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.6	1.2
10°-20°	673.0	3.8
20°-30°	1271.7	7.2
30°-40°	2106.1	12.0
40°-50°	3288.0	18.7
50°-60°	5083.2	28.9
60°-70°	4383.1	24.9
70°-80°	496.7	2.8
80°-90°	59.5	0.3
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°	17570.0	100.0
0°-180°	17570.0	100.0



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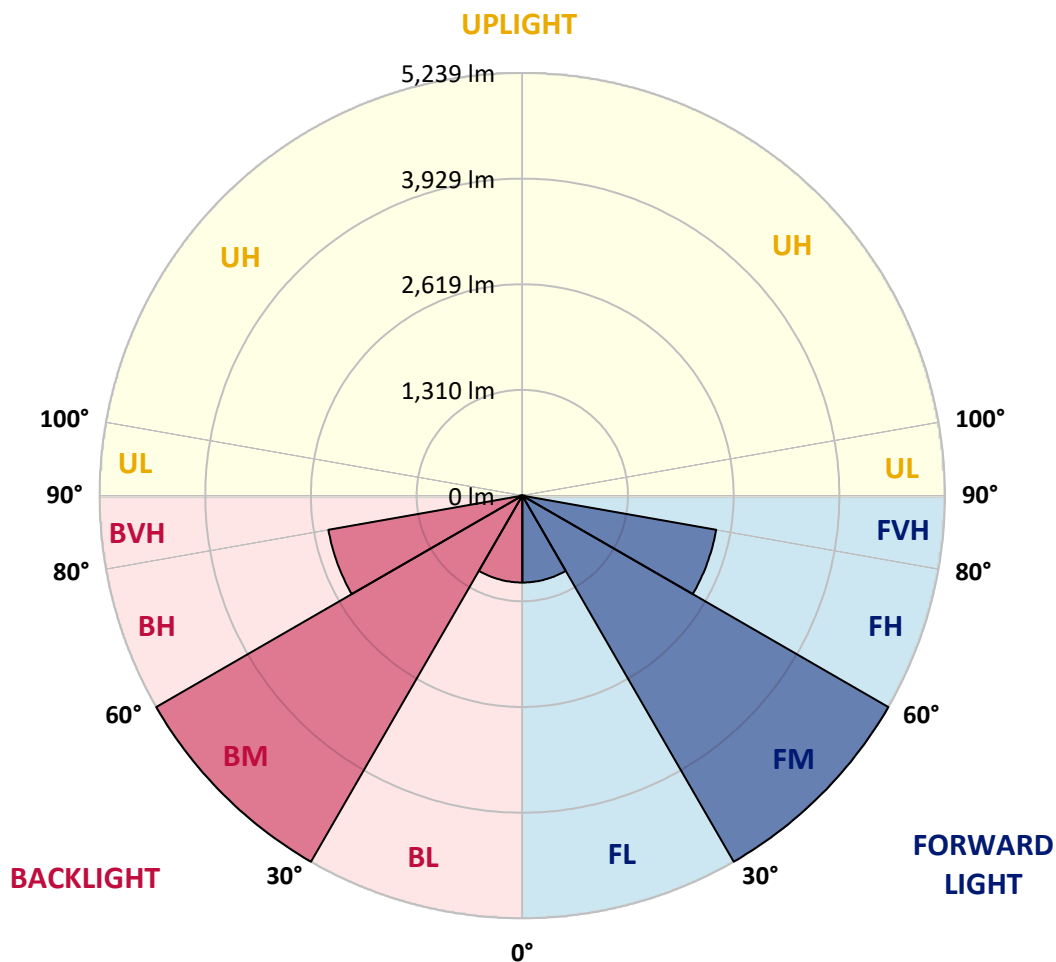
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1076.7	6.1			
FM (30°-60°)	5238.6	29.8			
FH (60°-80°)	2439.9	13.9			G2/5000
FVH (80°-90°)	29.8	0.2			G1/100
BL (0°-30°)	1076.7	6.1	B3/2500		
BM (30°-60°)	5238.6	29.8	B4/8500		
BH (60°-80°)	2439.9	13.9	B3/2500		G2/5000
BVH (80°-90°)	29.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2123.6	2123.6	2123.6	2123.6	2123.6	2123.6	2123.6	2123.6	2123.6	2123.6	2123.6
2.5°	2132.0	2136.7	2132.9	2132.0	2131.1	2131.1	2131.1	2132.0	2135.7	2138.5	2136.7
5°	2159.0	2162.7	2160.9	2159.9	2159.0	2159.9	2158.1	2157.1	2159.9	2159.9	2159.0
7.5°	2192.5	2197.1	2195.3	2197.1	2198.1	2199.0	2194.4	2190.6	2189.7	2192.5	2190.6
10°	2238.1	2241.8	2242.7	2243.7	2245.5	2244.6	2239.0	2232.5	2231.6	2230.6	2229.7
12.5°	2289.3	2292.1	2293.0	2296.7	2299.5	2300.4	2293.9	2288.3	2279.0	2280.9	2277.2
15°	2347.0	2352.6	2351.6	2357.2	2364.7	2366.5	2360.0	2350.7	2342.3	2337.7	2334.9
17.5°	2417.7	2421.4	2419.6	2425.1	2434.5	2439.1	2433.5	2421.4	2413.0	2402.8	2397.2
20°	2501.5	2508.0	2509.8	2509.8	2518.2	2522.9	2514.5	2510.8	2497.7	2490.3	2485.6
22.5°	2596.4	2599.2	2604.8	2610.3	2618.7	2616.8	2614.1	2608.5	2596.4	2589.9	2582.4
25°	2703.4	2706.2	2720.1	2732.2	2735.0	2733.2	2729.5	2726.7	2715.5	2700.6	2695.0
27.5°	2828.1	2833.7	2852.3	2863.5	2863.5	2864.4	2856.9	2866.2	2842.1	2824.4	2822.5
30°	2984.4	2988.2	3004.0	3015.1	3009.6	3004.9	3003.0	3012.4	2986.3	2954.7	2947.2
32.5°	3138.9	3151.9	3165.9	3190.1	3170.6	3162.2	3160.3	3166.8	3137.1	3101.7	3091.5
35°	3304.6	3313.9	3339.9	3360.4	3342.7	3323.2	3331.5	3352.0	3316.7	3269.2	3267.3
37.5°	3487.9	3496.3	3529.8	3551.2	3538.1	3504.6	3518.6	3542.8	3507.4	3448.8	3436.7
40°	3678.7	3696.3	3738.2	3760.6	3739.2	3694.5	3720.5	3746.6	3715.0	3647.0	3620.0
42.5°	3892.7	3920.6	3981.1	3992.3	3951.3	3890.8	3936.4	3978.3	3956.0	3877.8	3867.6
45°	4143.0	4159.8	4234.2	4258.4	4201.7	4126.3	4183.0	4259.4	4242.6	4152.3	4132.8
47.5°	4423.1	4439.0	4516.2	4552.5	4480.8	4379.4	4481.8	4581.3	4571.1	4474.3	4465.0
50°	4754.4	4758.2	4865.2	4906.1	4834.5	4747.0	4838.2	4962.0	4921.0	4797.2	4795.4
52.5°	5117.4	5122.0	5257.0	5336.1	5296.0	5197.4	5305.4	5380.7	5276.5	5114.6	5102.5
55°	5431.9	5455.2	5639.4	5849.8	5904.7	5833.0	5865.6	5830.2	5573.4	5346.3	5310.9
57.5°	5560.3	5605.9	5886.0	6278.8	6636.1	6742.2	6490.9	6154.1	5691.6	5370.5	5336.1
60°	5246.7	5296.0	5730.6	6476.0	7388.0	7848.7	7142.4	6209.0	5422.6	4971.3	4917.3
62.5°	4201.7	4215.6	4854.9	6011.7	7826.3	9019.4	7416.9	5740.9	4640.0	4026.7	4005.3
64°	3023.5	3166.8	3844.3	5270.9	7634.6	9465.1	7258.7	5084.8	3768.9	3148.2	3047.7
65°	2261.4	2300.4	3098.9	4501.3	7296.8	9431.6	6951.6	4457.6	3121.2	2409.3	2297.7
67.5°	854.3	858.9	1143.7	2243.7	5194.6	8114.8	5305.4	2425.1	1314.9	951.1	916.6
70°	354.6	361.1	419.7	754.7	2232.5	5210.4	2558.2	874.8	481.1	389.9	384.3
72.5°	259.6	263.4	281.0	335.0	686.8	2139.5	841.3	371.3	282.0	252.2	249.4
75°	203.8	205.7	218.7	246.6	320.1	592.8	349.9	255.0	215.0	193.6	191.7
77.5°	155.4	160.1	169.4	188.0	215.0	281.0	231.7	190.8	165.6	148.0	145.2
80°	107.0	112.6	130.3	137.7	144.2	182.4	158.2	144.2	129.4	107.9	101.4
82.5°	66.1	69.8	87.5	94.0	91.2	102.4	101.4	103.3	92.1	67.0	62.4
85°	34.4	36.3	47.5	49.3	45.6	41.9	52.1	60.5	56.8	38.2	37.2
87.5°	7.4	8.4	10.2	9.3	10.2	10.2	13.0	19.5	20.5	13.0	12.1
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)