

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: P529938

Luminaire Tested: **GALN-SA5A-827-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529938
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-827-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14860 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

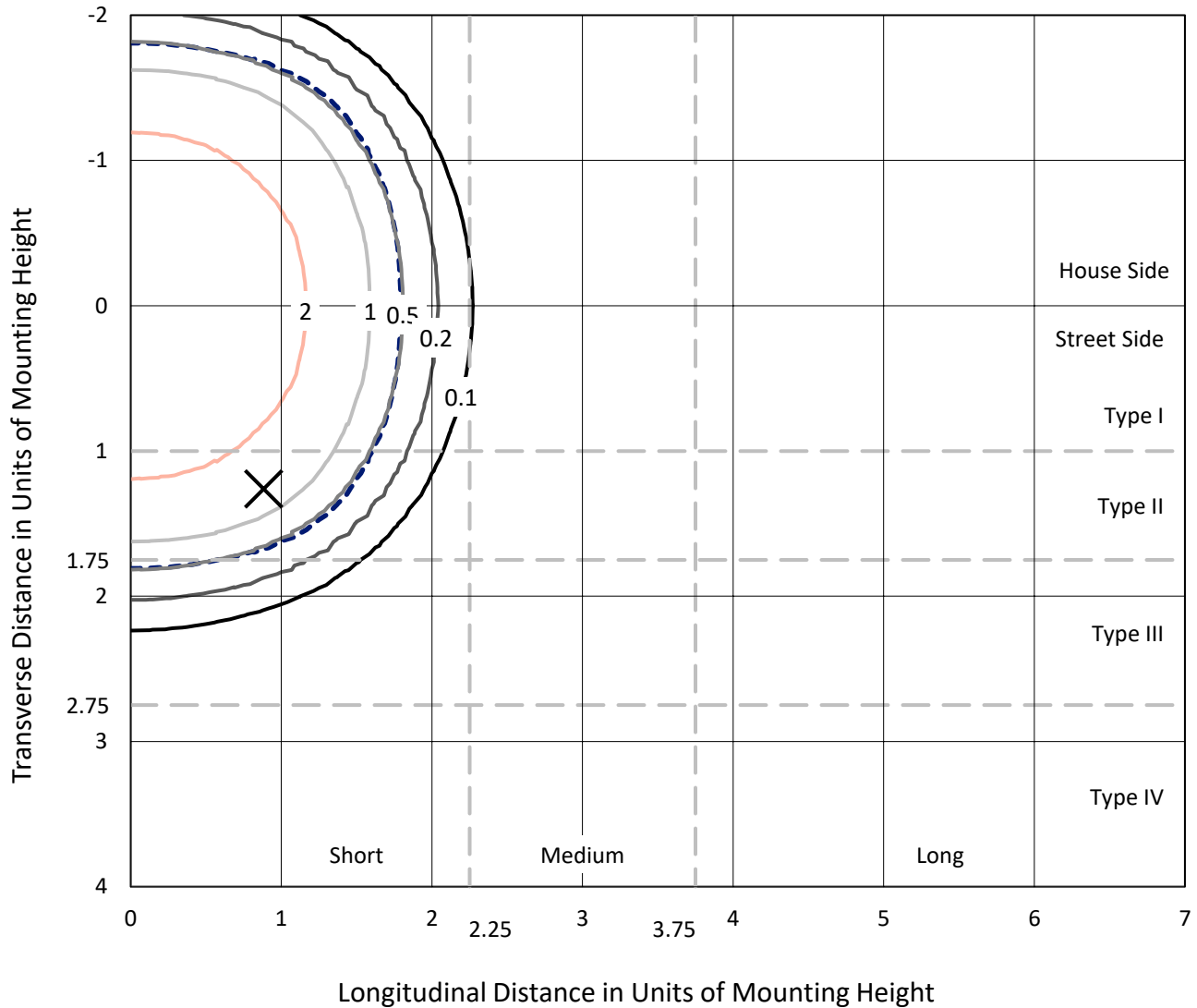
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

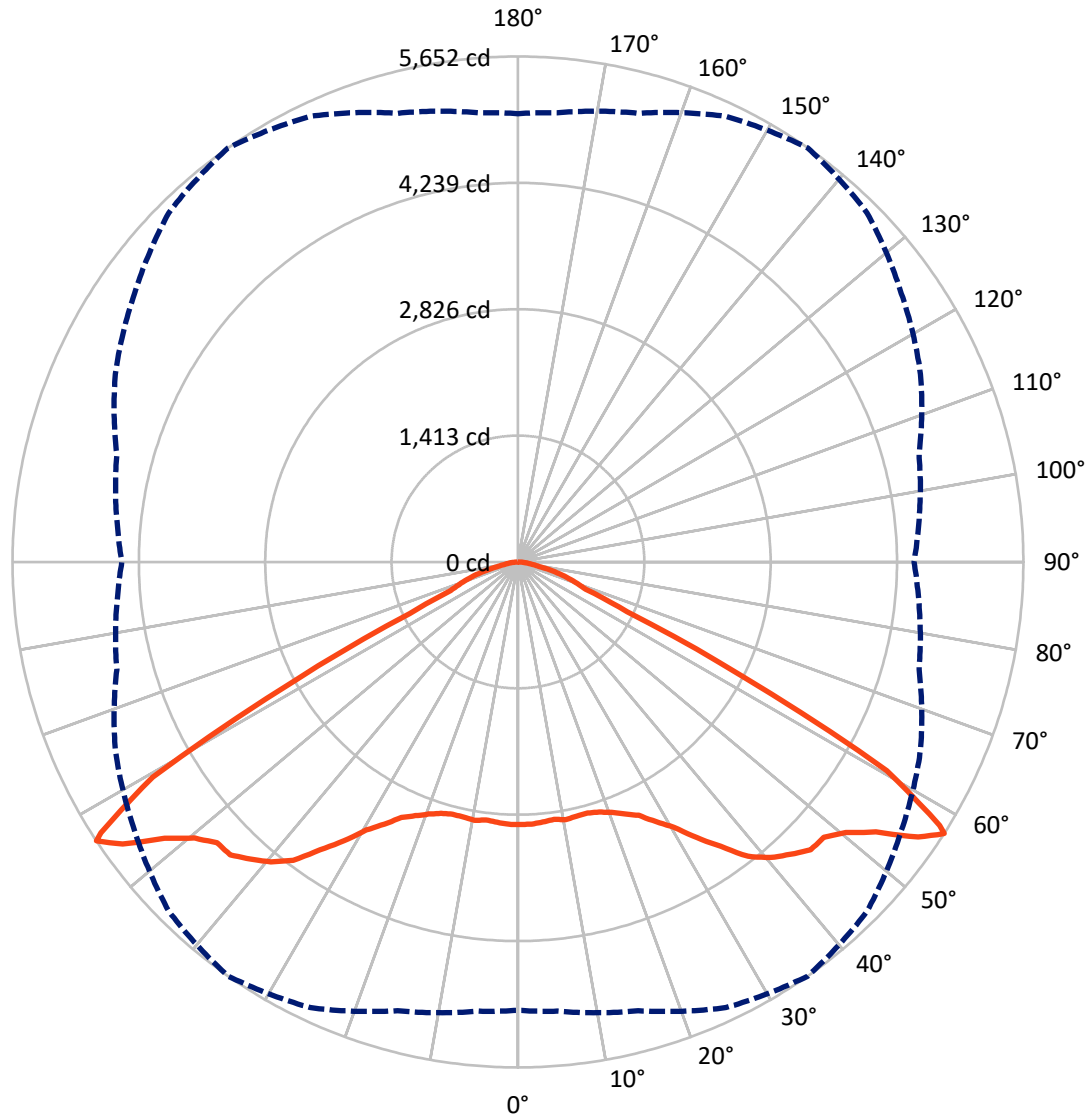
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7430.0	0.0	7430.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7430.0	0.0	7430.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14860.0	0.0	14860.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.2	1.9
10°-20°	824.0	5.5
20°-30°	1439.1	9.7
30°-40°	2358.1	15.9
40°-50°	3457.5	23.3
50°-60°	4355.0	29.3
60°-70°	1637.9	11.0
70°-80°	435.5	2.9
80°-90°	74.7	0.5
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°	14860.0	100.0
0°-180°	14860.0	100.0

Coefficient of Utilization

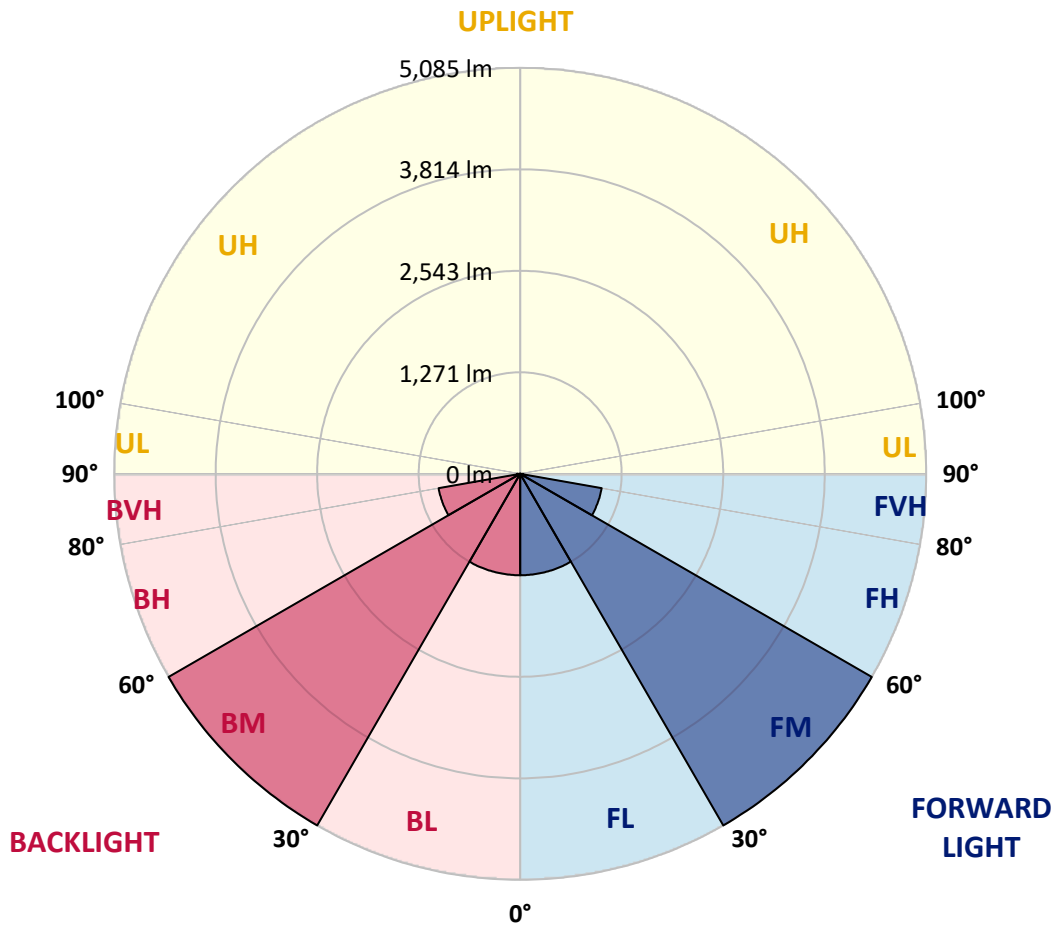


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1270.7	8.6			
FM (30°-60°)	5085.3	34.2			
FH (60°-80°)	1036.7	7.0			G1/1800
FVH (80°-90°)	37.3	0.3			G1/100
BL (0°-30°)	1270.7	8.6	B3/2500		
BM (30°-60°)	5085.3	34.2	B4/8500		
BH (60°-80°)	1036.7	7.0	B3/2500		G1/1800
BVH (80°-90°)	37.3	0.3			G1/100
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2934.7	2934.7	2934.7	2934.7	2934.7	2934.7	2934.7	2934.7	2934.7	2934.7	2934.7
2.5°	2920.1	2949.4	2936.6	2929.2	2934.7	2925.6	2910.9	2927.4	2923.8	2909.1	2903.6
5°	2912.8	2934.7	2920.1	2934.7	2920.1	2945.7	2938.4	2910.9	2943.9	2912.8	2923.8
7.5°	2907.3	2914.6	2918.3	2910.9	2905.4	2936.6	2920.1	2907.3	2889.0	2883.5	2892.6
10°	2894.5	2912.8	2885.3	2921.9	2929.2	2907.3	2907.3	2883.5	2868.8	2859.7	2890.8
12.5°	2927.4	2896.3	2892.6	2910.9	2916.4	2925.6	2900.0	2887.1	2859.7	2863.3	2857.8
15°	2889.0	2901.8	2903.6	2907.3	2912.8	2934.7	2910.9	2883.5	2872.5	2834.0	2837.7
17.5°	2903.6	2890.8	2903.6	2945.7	2938.4	2954.9	2929.2	2887.1	2861.5	2839.5	2868.8
20°	2929.2	2923.8	2929.2	2980.5	2989.7	3004.3	2982.3	2943.9	2894.5	2868.8	2883.5
22.5°	2956.7	2953.0	2956.7	3006.1	3059.2	3077.5	3055.6	2965.9	2940.2	2892.6	2876.2
25°	3006.1	3009.8	3048.2	3103.2	3138.0	3172.7	3132.5	3068.4	2986.0	2956.7	2921.9
27.5°	3116.0	3125.1	3147.1	3227.7	3288.1	3319.2	3262.5	3174.6	3123.3	3062.9	3053.7
30°	3251.5	3251.5	3289.9	3359.5	3441.9	3489.5	3419.9	3315.5	3253.3	3220.3	3200.2
32.5°	3430.9	3410.7	3425.4	3548.1	3676.2	3716.5	3623.1	3495.0	3396.1	3352.2	3337.5
35°	3584.7	3597.5	3630.4	3762.3	3905.1	3998.4	3852.0	3685.4	3584.7	3544.4	3537.1
37.5°	3784.2	3806.2	3822.7	4003.9	4176.0	4210.8	4069.8	3936.2	3813.5	3780.6	3762.3
40°	4066.2	4051.5	4057.0	4190.7	4346.3	4368.2	4229.1	4133.9	4033.2	4013.1	4013.1
42.5°	4298.7	4282.2	4300.5	4349.9	4468.9	4452.5	4375.6	4306.0	4263.9	4241.9	4263.9
45°	4439.6	4436.0	4468.9	4505.5	4589.8	4534.8	4474.4	4485.4	4445.1	4408.5	4406.7
47.5°	4593.4	4569.6	4609.9	4664.8	4600.8	4575.1	4571.5	4595.3	4582.4	4518.4	4498.2
50°	4668.5	4659.3	4723.4	4787.5	4752.7	4694.1	4706.9	4745.4	4580.6	4494.6	4445.1
52.5°	4869.9	4871.7	4994.4	5029.2	5014.5	4928.5	4955.9	4851.6	4657.5	4536.7	4542.2
55°	5186.6	5173.8	5311.1	5413.6	5430.1	5320.2	5188.4	5042.0	4798.5	4675.8	4639.2
57°	5012.7	5042.0	5193.9	5497.8	5651.6	5521.6	5234.2	4966.9	4642.9	4494.6	4428.7
57.5°	4780.2	4827.8	5091.4	5397.1	5558.2	5547.3	5177.4	4827.8	4538.5	4307.8	4313.3
60°	3502.3	3511.4	3749.4	4234.6	4738.1	4749.0	4298.7	3835.5	3513.3	3262.5	3297.2
62.5°	1847.3	1889.4	1984.6	2374.5	2810.2	2916.4	2643.6	2405.6	2127.4	1937.0	1955.3
65°	977.6	972.1	1017.9	1127.8	1342.0	1396.9	1360.3	1171.7	1074.7	1043.5	1045.4
67.5°	794.6	803.7	798.2	803.7	818.4	842.2	836.7	844.0	849.5	858.6	856.8
70°	673.7	673.7	677.4	679.2	679.2	690.2	703.0	726.8	728.7	737.8	741.5
72.5°	530.9	527.3	532.8	545.6	547.4	556.6	574.9	589.5	595.0	595.0	584.0
75°	360.7	364.3	371.6	382.6	393.6	410.1	424.7	433.9	437.6	432.1	426.6
77.5°	203.2	206.9	212.4	228.8	241.7	256.3	272.8	281.9	291.1	292.9	281.9
80°	120.8	120.8	130.0	142.8	157.4	172.1	186.7	197.7	201.4	201.4	195.9
82.5°	73.2	75.1	82.4	95.2	108.0	117.2	130.0	139.1	146.5	144.6	141.0
85°	38.4	38.4	45.8	56.8	65.9	75.1	75.1	69.6	65.9	56.8	53.1
87.5°	12.8	11.0	14.6	14.6	12.8	14.6	14.6	16.5	16.5	16.5	16.5
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)