

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: P529236

Luminaire Tested: **GALN-SA4B-827-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529236
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-SA4B-827-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 800mA 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: 14606 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

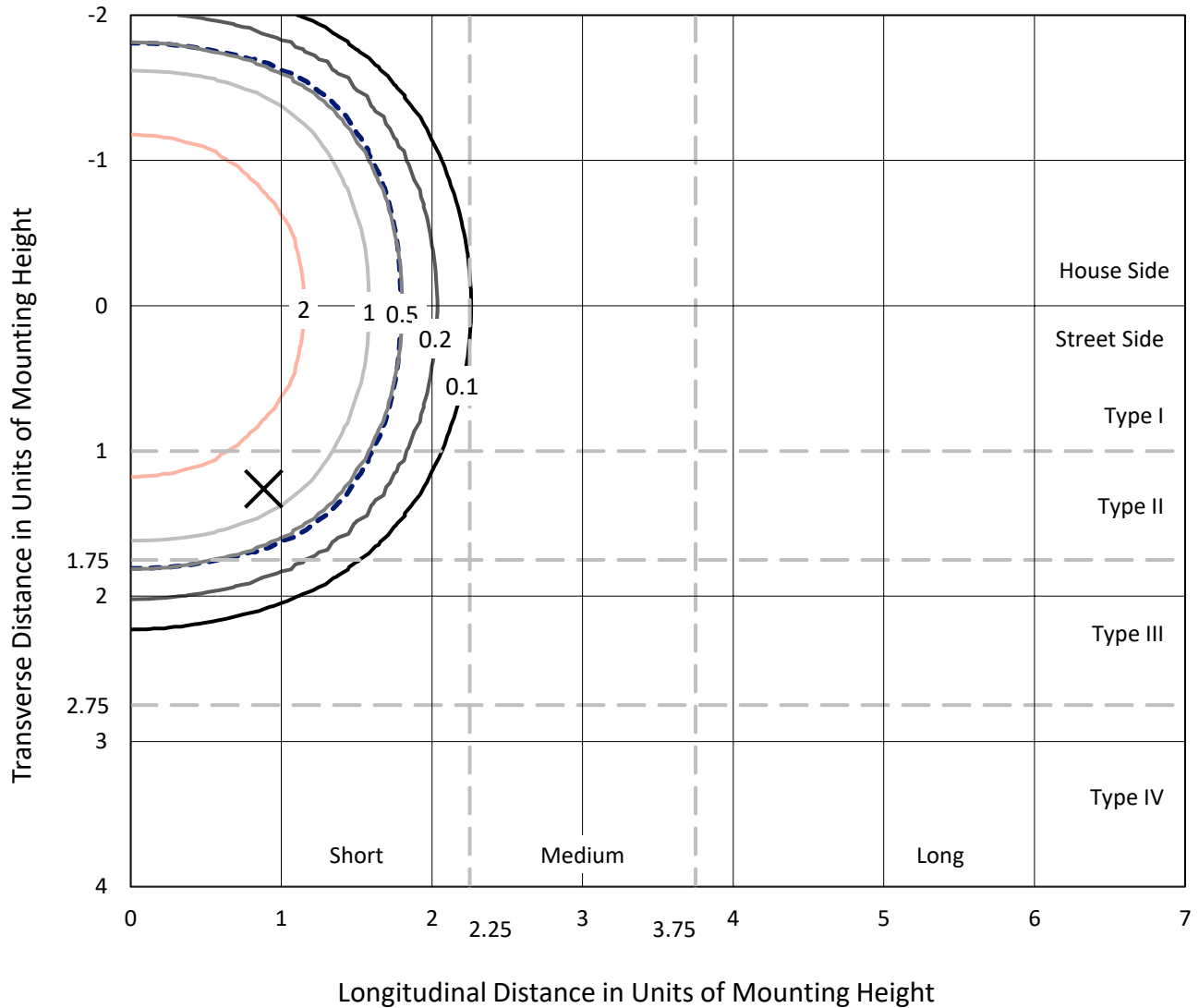
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

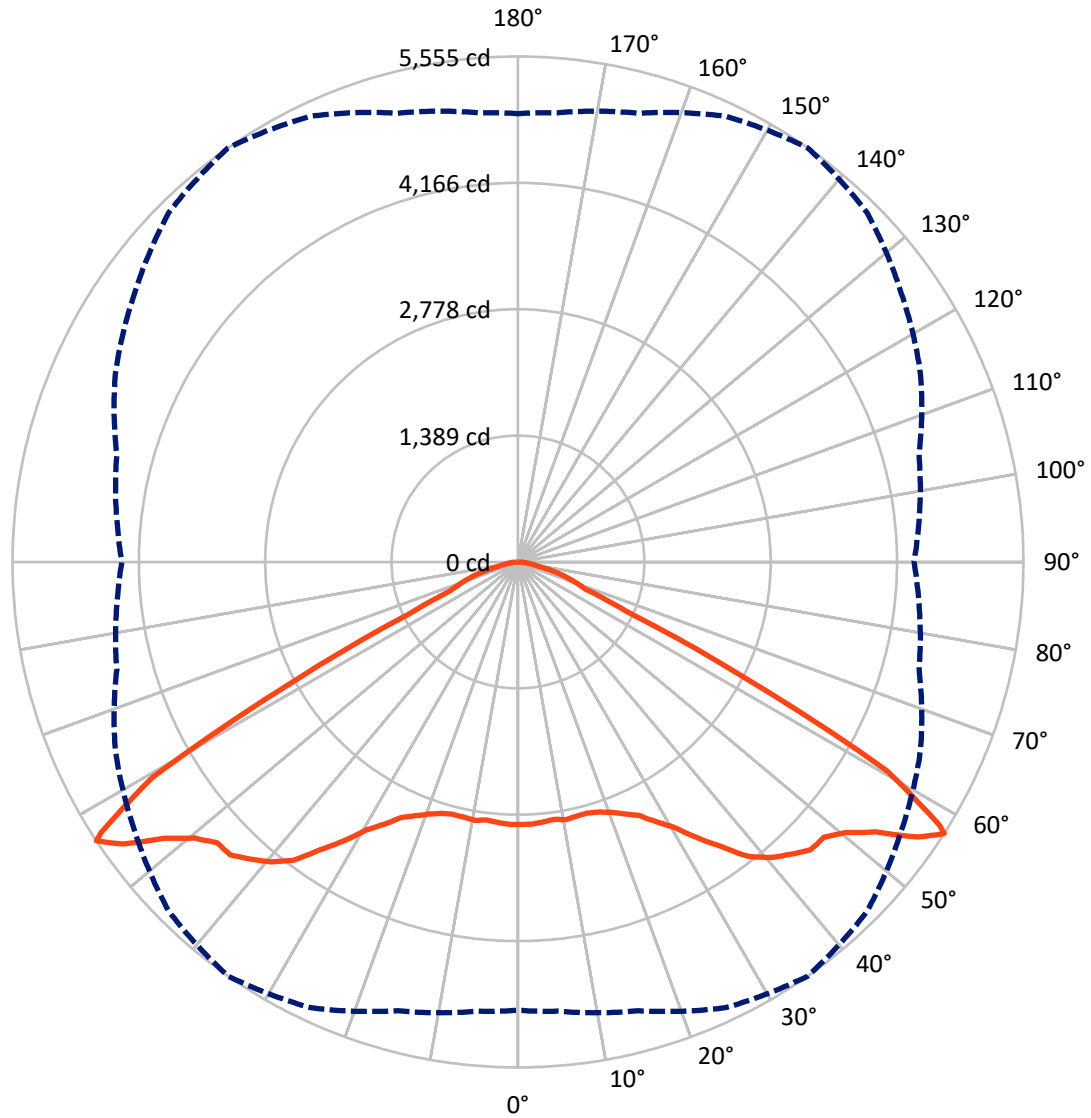
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	7303.0	0.0	7303.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7303.0	0.0	7303.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14606.0	0.0	14606.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.5	1.9
10°-20°	809.9	5.5
20°-30°	1414.5	9.7
30°-40°	2317.8	15.9
40°-50°	3398.4	23.3
50°-60°	4280.6	29.3
60°-70°	1609.9	11.0
70°-80°	428.0	2.9
80°-90°	73.4	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°	14606.0	100.0
0°-180°	14606.0	100.0

Coefficient of Utilization



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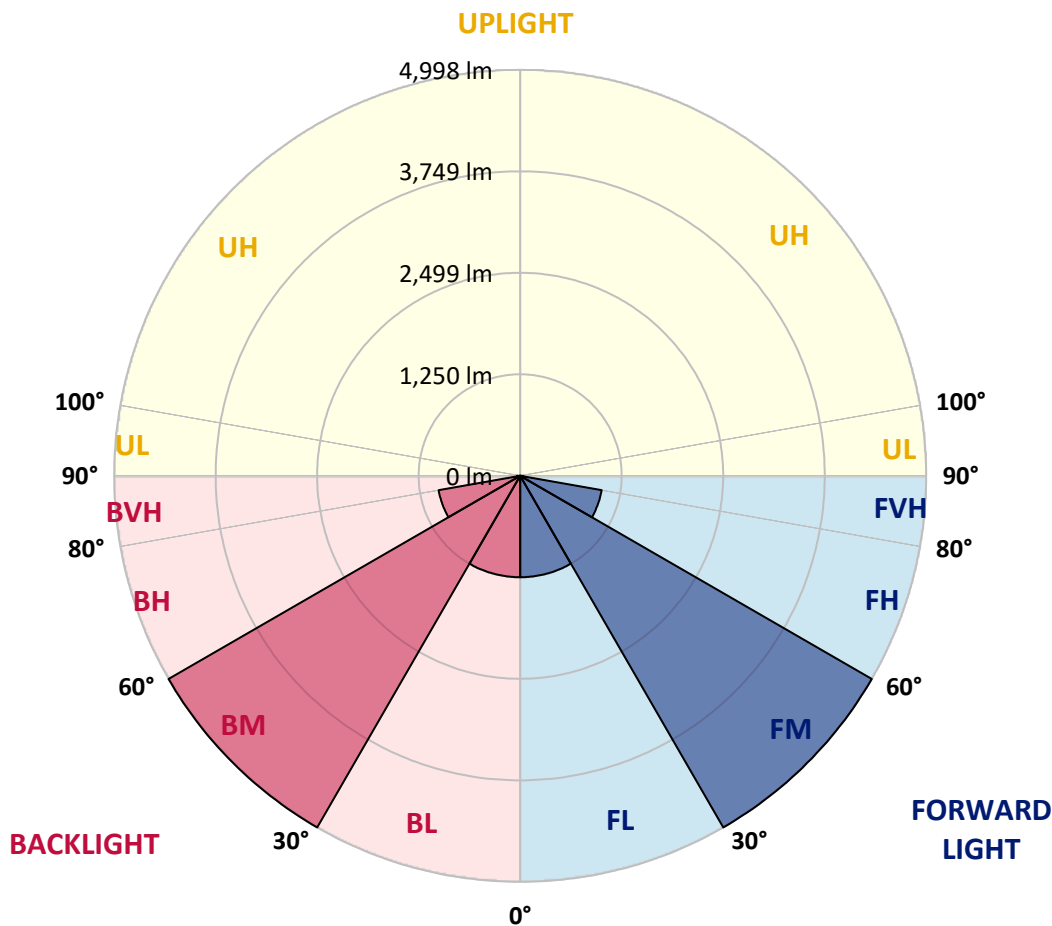
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1249.0	8.6			
FM (30°-60°)	4998.4	34.2			
FH (60°-80°)	1019.0	7.0			G1/1800
FVH (80°-90°)	36.7	0.3			G1/100
BL (0°-30°)	1249.0	8.6	B3/2500		
BM (30°-60°)	4998.4	34.2	B3/5000		
BH (60°-80°)	1019.0	7.0	B3/2500		G1/1800
BVH (80°-90°)	36.7	0.3			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2884.6	2884.6	2884.6	2884.6	2884.6	2884.6	2884.6	2884.6	2884.6	2884.6	2884.6
2.5°	2870.2	2899.0	2886.4	2879.2	2884.6	2875.6	2861.2	2877.4	2873.8	2859.4	2854.0
5°	2863.0	2884.6	2870.2	2884.6	2870.2	2895.4	2888.2	2861.2	2893.6	2863.0	2873.8
7.5°	2857.6	2864.8	2868.4	2861.2	2855.8	2886.4	2870.2	2857.6	2839.6	2834.2	2843.2
10°	2845.0	2863.0	2836.0	2872.0	2879.2	2857.6	2857.6	2834.2	2819.8	2810.8	2841.4
12.5°	2877.4	2846.8	2843.2	2861.2	2866.6	2875.6	2850.4	2837.8	2810.8	2814.4	2809.0
15°	2839.6	2852.2	2854.0	2857.6	2863.0	2884.6	2861.2	2834.2	2823.4	2785.6	2789.2
17.5°	2854.0	2841.4	2854.0	2895.4	2888.2	2904.4	2879.2	2837.8	2812.6	2791.0	2819.8
20°	2879.2	2873.8	2879.2	2929.6	2938.6	2953.0	2931.4	2893.6	2845.0	2819.8	2834.2
22.5°	2906.2	2902.6	2906.2	2954.8	3006.9	3024.9	3003.3	2915.2	2890.0	2843.2	2827.0
25°	2954.8	2958.4	2996.1	3050.1	3084.3	3118.5	3078.9	3015.9	2935.0	2906.2	2872.0
27.5°	3062.7	3071.7	3093.3	3172.5	3231.9	3262.5	3206.7	3120.3	3069.9	3010.5	3001.5
30°	3195.9	3195.9	3233.7	3302.1	3383.0	3429.8	3361.4	3258.9	3197.7	3165.3	3145.5
32.5°	3372.2	3352.4	3366.8	3487.4	3613.4	3653.0	3561.2	3435.2	3338.0	3294.9	3280.5
35°	3523.4	3536.0	3568.4	3697.9	3838.3	3930.1	3786.1	3622.4	3523.4	3483.8	3476.6
37.5°	3719.5	3741.1	3757.3	3935.5	4104.6	4138.8	4000.3	3868.9	3748.3	3715.9	3697.9
40°	3996.7	3982.3	3987.7	4119.0	4272.0	4293.6	4156.8	4063.2	3964.3	3944.5	3944.5
42.5°	4225.2	4209.0	4227.0	4275.6	4392.5	4376.4	4300.8	4232.4	4191.0	4169.4	4191.0
45°	4363.8	4360.2	4392.5	4428.5	4511.3	4457.3	4397.9	4408.7	4369.2	4333.2	4331.4
47.5°	4514.9	4491.5	4531.1	4585.1	4522.1	4496.9	4493.3	4516.7	4504.1	4441.1	4421.3
50°	4588.7	4579.7	4642.7	4705.7	4671.5	4613.9	4626.5	4664.3	4502.3	4417.7	4369.2
52.5°	4786.6	4788.4	4909.0	4943.2	4928.8	4844.2	4871.2	4768.6	4577.9	4459.1	4464.5
55°	5097.9	5085.3	5220.3	5321.1	5337.3	5229.3	5099.7	4955.8	4716.5	4595.9	4559.9
57°	4927.0	4955.8	5105.1	5403.9	5555.0	5427.3	5144.7	4882.0	4563.5	4417.7	4353.0
57.5°	4698.5	4745.2	5004.4	5304.9	5463.2	5452.4	5088.9	4745.2	4460.9	4234.2	4239.6
60°	3442.4	3451.4	3685.3	4162.2	4657.1	4667.9	4225.2	3769.9	3453.2	3206.7	3240.9
62.5°	1815.7	1857.1	1950.6	2333.9	2762.2	2866.6	2598.5	2364.5	2091.0	1903.9	1921.9
65°	960.9	955.5	1000.5	1108.5	1319.0	1373.0	1337.0	1151.7	1056.3	1025.7	1027.5
67.5°	781.0	790.0	784.6	790.0	804.4	827.8	822.4	829.6	835.0	844.0	842.2
70°	662.2	662.2	665.8	667.6	667.6	678.4	691.0	714.4	716.2	725.2	728.8
72.5°	521.9	518.3	523.7	536.2	538.0	547.0	565.0	579.4	584.8	584.8	574.0
75°	354.5	358.1	365.3	376.1	386.9	403.1	417.5	426.5	430.1	424.7	419.3
77.5°	199.7	203.3	208.7	224.9	237.5	251.9	268.1	277.1	286.1	287.9	277.1
80°	118.8	118.8	127.8	140.4	154.8	169.2	183.5	194.3	197.9	197.9	192.5
82.5°	72.0	73.8	81.0	93.6	106.2	115.2	127.8	136.8	144.0	142.2	138.6
85°	37.8	37.8	45.0	55.8	64.8	73.8	73.8	68.4	64.8	55.8	52.2
87.5°	12.6	10.8	14.4	14.4	12.6	14.4	14.4	16.2	16.2	16.2	16.2
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)