

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: P458919

Luminaire Tested: **GALN-SA4C-735-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458919
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-735-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27173 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): 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

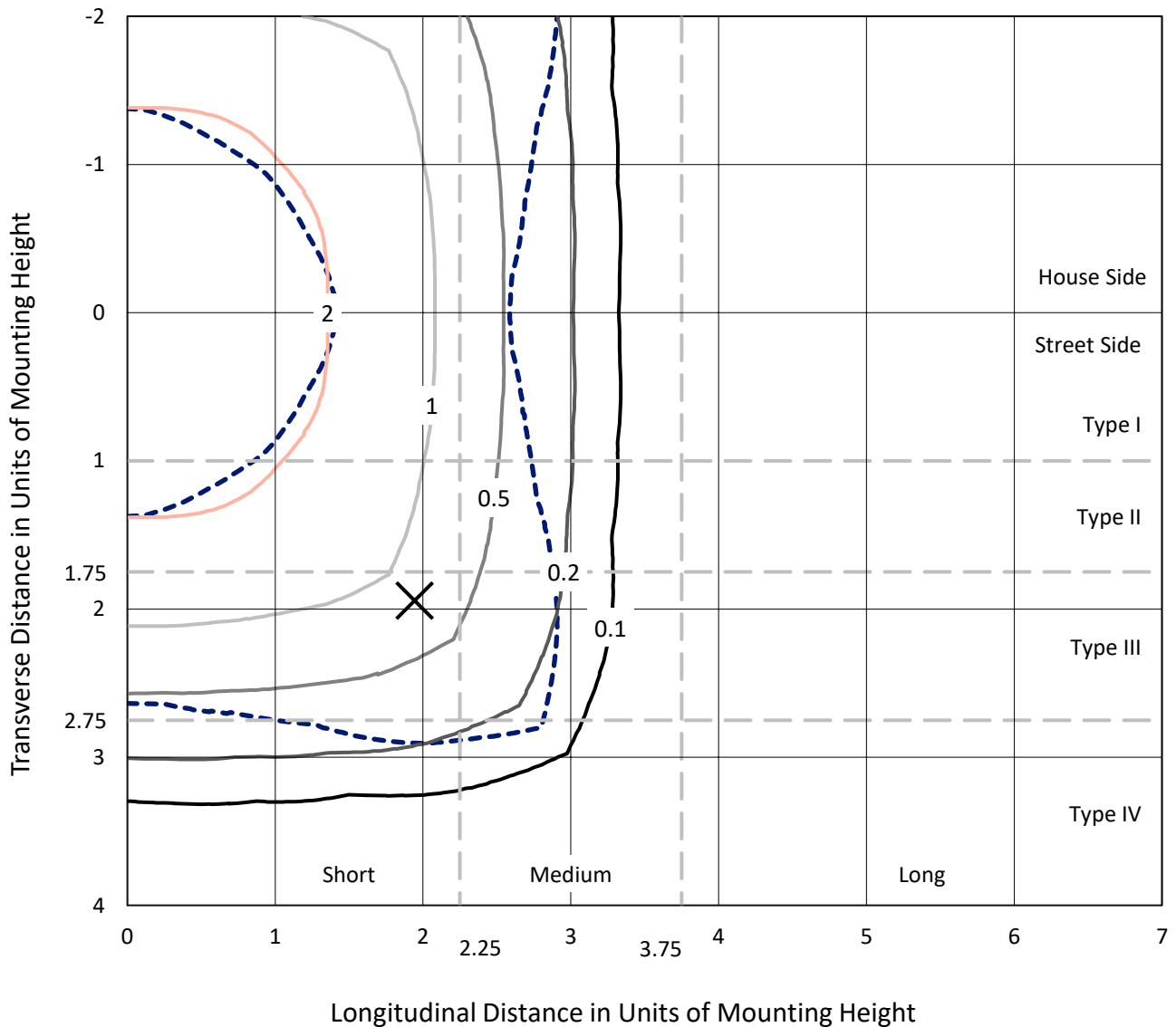




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Iso-Footcandle Lines of Horizontal Illumination

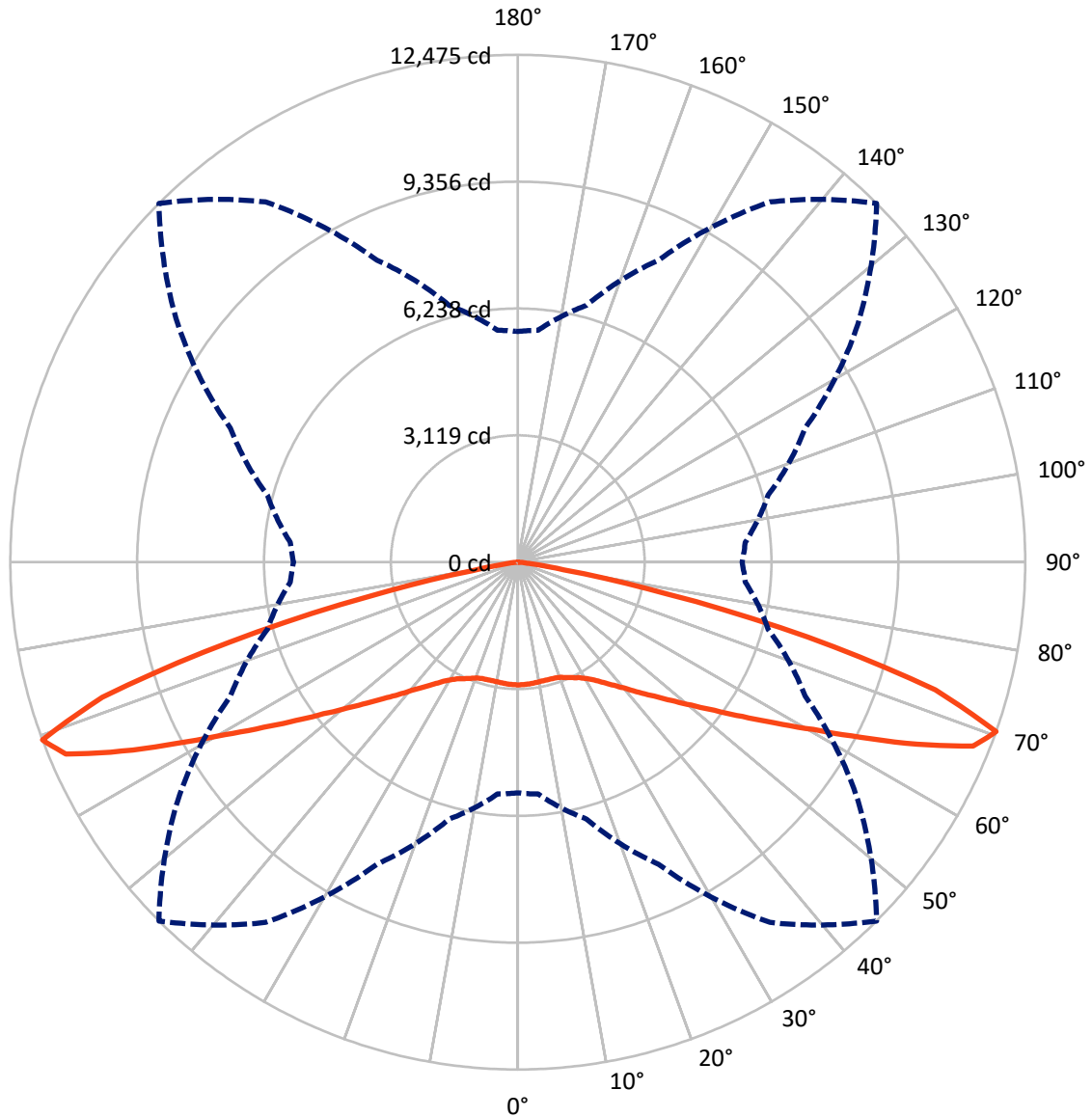
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13586.5	0.0	13586.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13586.5	0.0	13586.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	27173.0	0.0	27173.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.1	1.1
10°-20°	839.7	3.1
20°-30°	1436.1	5.3
30°-40°	2279.3	8.4
40°-50°	3677.2	13.5
50°-60°	5982.9	22.0
60°-70°	8673.0	31.9
70°-80°	3847.0	14.2
80°-90°	151.7	0.6
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°	27173.0	100.0
0°-180°	27173.0	100.0

Coefficient of Utilization



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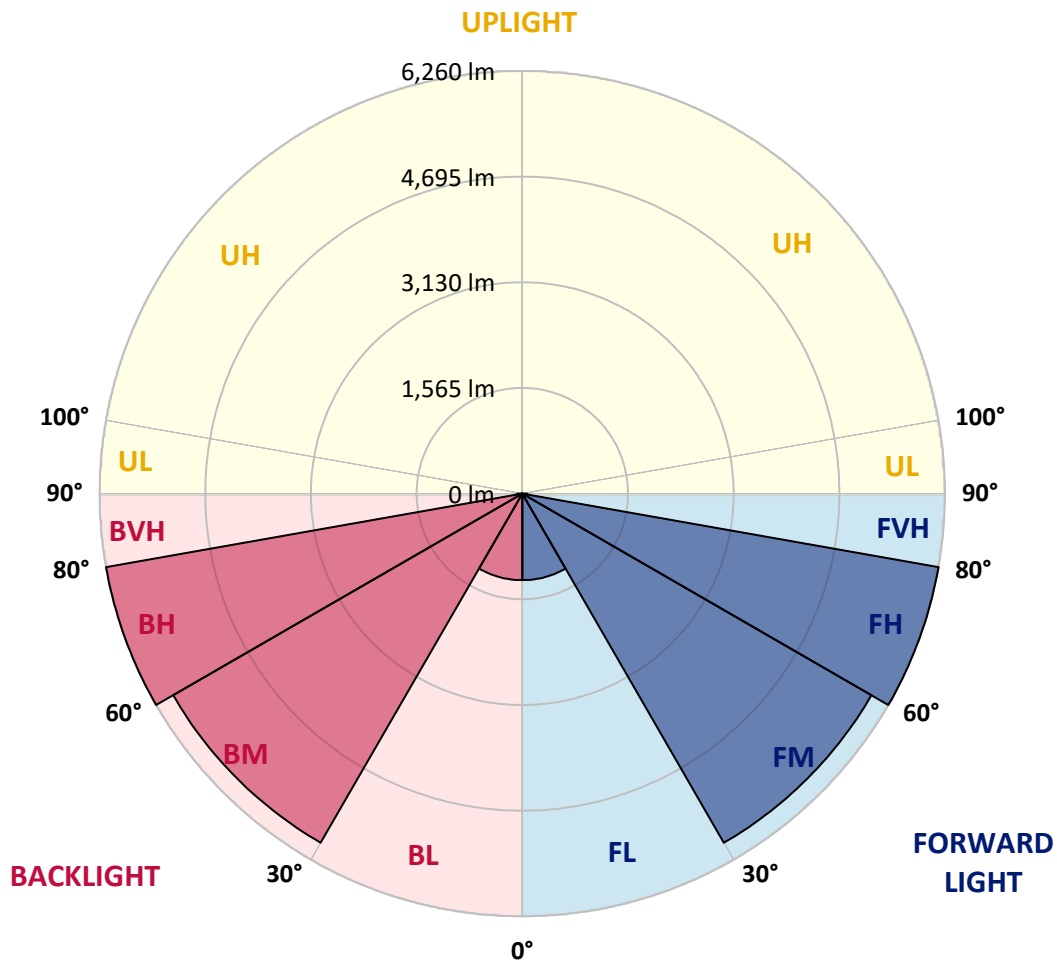
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1280.9	4.7			
FM (30°-60°)	5969.7	22.0			
FH (60°-80°)	6260.0	23.0			G3/7500
FVH (80°-90°)	75.9	0.3			G1/100
BL (0°-30°)	1280.9	4.7	B3/2500		
BM (30°-60°)	5969.7	22.0	B4/8500		
BH (60°-80°)	6260.0	23.0	B5		G3/7500
BVH (80°-90°)	75.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3017.4	3017.4	3017.4	3017.4	3017.4	3017.4	3017.4	3017.4	3017.4	3017.4	3017.4
2.5°	3017.4	3020.3	3016.0	3013.1	3011.7	3011.7	3010.3	3011.7	3020.3	3021.7	3017.4
5°	3008.8	3011.7	3010.3	3007.4	3006.0	3006.0	3004.5	3003.1	3010.3	3013.1	3011.7
7.5°	2997.4	2998.8	2997.4	2996.0	2997.4	2996.0	2991.7	2988.8	2994.5	2994.5	2993.1
10°	2977.3	2980.2	2978.8	2980.2	2983.1	2983.1	2977.3	2971.6	2973.0	2970.2	2970.2
12.5°	2953.0	2957.3	2958.7	2964.4	2971.6	2980.2	2967.3	2954.4	2951.6	2950.1	2948.7
15°	2937.2	2941.5	2947.3	2953.0	2965.9	2984.5	2965.9	2945.8	2940.1	2934.4	2931.5
17.5°	2932.9	2938.7	2947.3	2955.9	2973.0	2991.7	2975.9	2955.9	2941.5	2932.9	2930.1
20°	2944.4	2948.7	2961.6	2977.3	3001.7	3020.3	3004.5	2983.1	2961.6	2948.7	2944.4
22.5°	2967.3	2974.5	2990.2	3018.9	3053.2	3080.4	3059.0	3023.2	2988.8	2971.6	2965.9
25°	3017.4	3023.2	3041.8	3080.4	3120.5	3146.3	3123.4	3081.9	3034.6	3011.7	3004.5
27.5°	3093.3	3101.9	3122.0	3167.8	3200.7	3215.1	3199.3	3170.7	3136.3	3112.0	3106.2
30°	3200.7	3210.8	3240.8	3289.5	3311.0	3319.6	3312.4	3293.8	3269.5	3243.7	3238.0
32.5°	3345.4	3351.1	3385.5	3431.3	3451.4	3454.2	3445.6	3437.0	3396.9	3354.0	3351.1
35°	3507.2	3517.2	3558.8	3613.2	3631.8	3633.2	3616.1	3603.2	3555.9	3521.5	3521.5
37.5°	3722.0	3726.3	3766.4	3828.0	3848.1	3842.3	3833.7	3822.3	3772.2	3727.8	3729.2
40°	3974.1	3982.7	4017.0	4088.6	4088.6	4081.5	4087.2	4078.6	4028.5	3985.5	3987.0
42.5°	4273.4	4277.7	4319.2	4395.1	4389.4	4375.1	4380.8	4369.3	4337.8	4289.1	4272.0
45°	4592.7	4609.9	4681.5	4754.6	4743.1	4697.3	4720.2	4717.3	4688.7	4615.7	4620.0
47.5°	4978.0	5006.6	5075.4	5162.7	5149.8	5078.2	5104.0	5121.2	5081.1	5000.9	4986.6
50°	5411.9	5430.5	5532.2	5613.8	5602.4	5526.5	5585.2	5588.1	5487.8	5374.7	5374.7
52.5°	5874.5	5893.1	6030.6	6158.0	6165.2	6054.9	6102.2	6099.3	5936.1	5787.1	5758.5
55°	6392.9	6401.5	6579.1	6766.7	6806.8	6699.4	6705.1	6647.8	6435.9	6262.6	6246.8
57.5°	6928.5	6960.0	7156.2	7399.7	7518.5	7452.6	7422.6	7269.3	7064.5	6865.5	6855.5
60°	7521.4	7522.8	7777.7	8065.6	8306.2	8350.6	8227.4	8022.6	7757.7	7494.2	7482.7
62.5°	7932.4	7994.0	8316.2	8803.1	9234.2	9483.4	9158.3	8728.6	8207.4	7782.0	7739.1
65°	8016.9	8058.4	8549.6	9374.5	10255.3	10792.3	10040.4	9126.8	8237.4	7670.3	7641.7
67.5°	7333.8	7378.2	8039.8	9305.8	10971.3	12072.6	10613.3	8934.9	7727.6	7025.9	6970.0
70°	5672.5	5722.7	6540.4	8191.6	10812.4	12475.0	10205.1	7793.5	6372.8	5615.3	5513.6
72.5°	3016.0	3200.7	3899.6	5622.4	8775.9	10740.7	8367.8	5686.9	4110.1	3359.7	3225.1
75°	1101.3	1124.2	1513.7	2493.3	5105.4	7365.3	5301.6	2712.4	1559.6	1204.4	1142.8
77.5°	455.4	454.0	498.4	753.3	1854.6	3772.2	2069.4	796.2	496.9	459.7	454.0
80°	269.2	269.2	296.4	313.6	488.3	1138.5	545.6	355.2	297.9	272.1	276.4
82.5°	120.3	127.5	187.6	197.6	236.3	312.2	263.5	226.3	194.8	134.6	121.7
85°	65.9	57.3	98.8	103.1	113.1	116.0	124.6	123.2	113.1	65.9	67.3
87.5°	12.9	15.8	28.6	21.5	24.3	21.5	28.6	40.1	41.5	22.9	18.6
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)