

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: P531705

Luminaire Tested: **GALN-SA7A-735-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-735-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17808 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

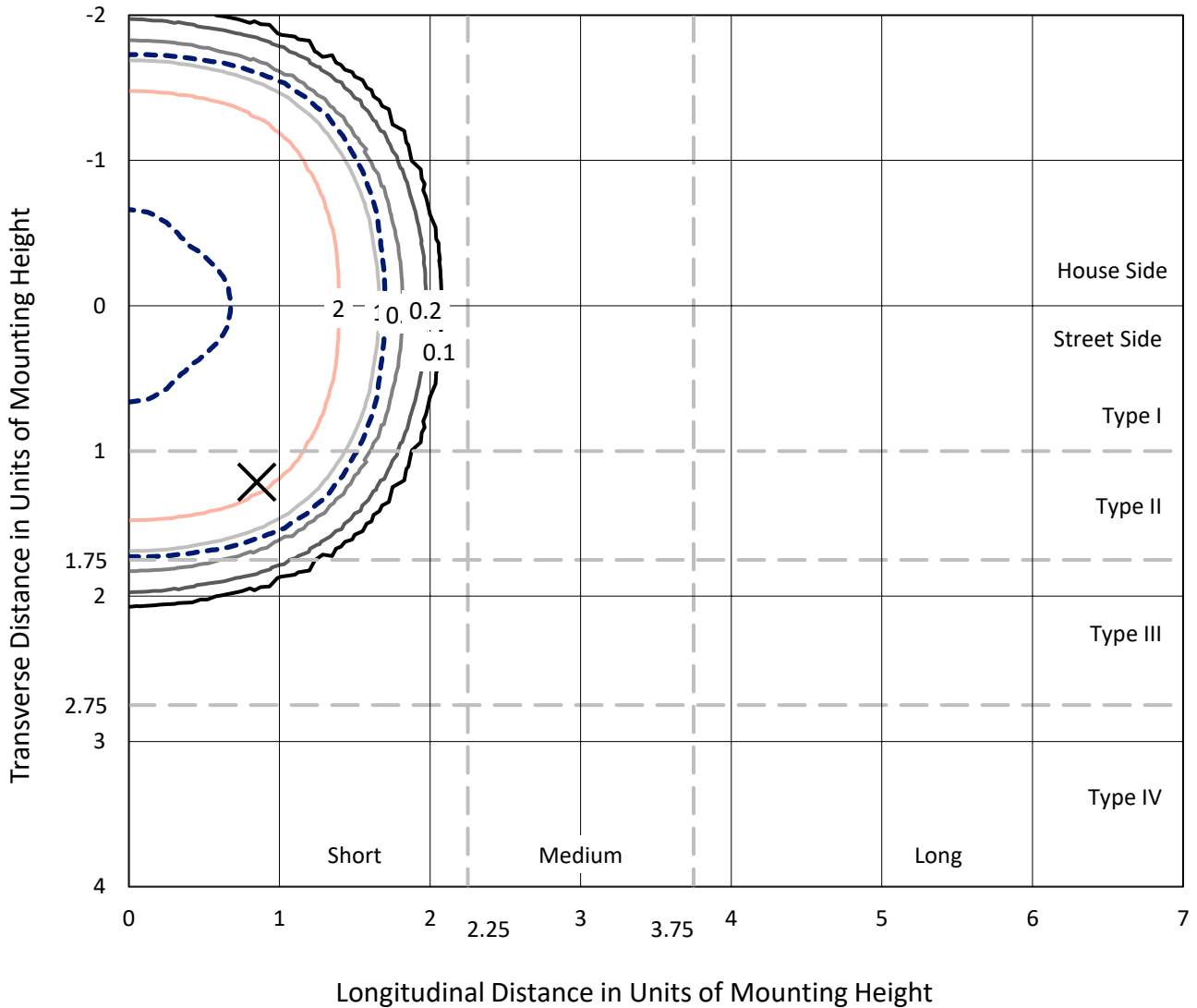
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

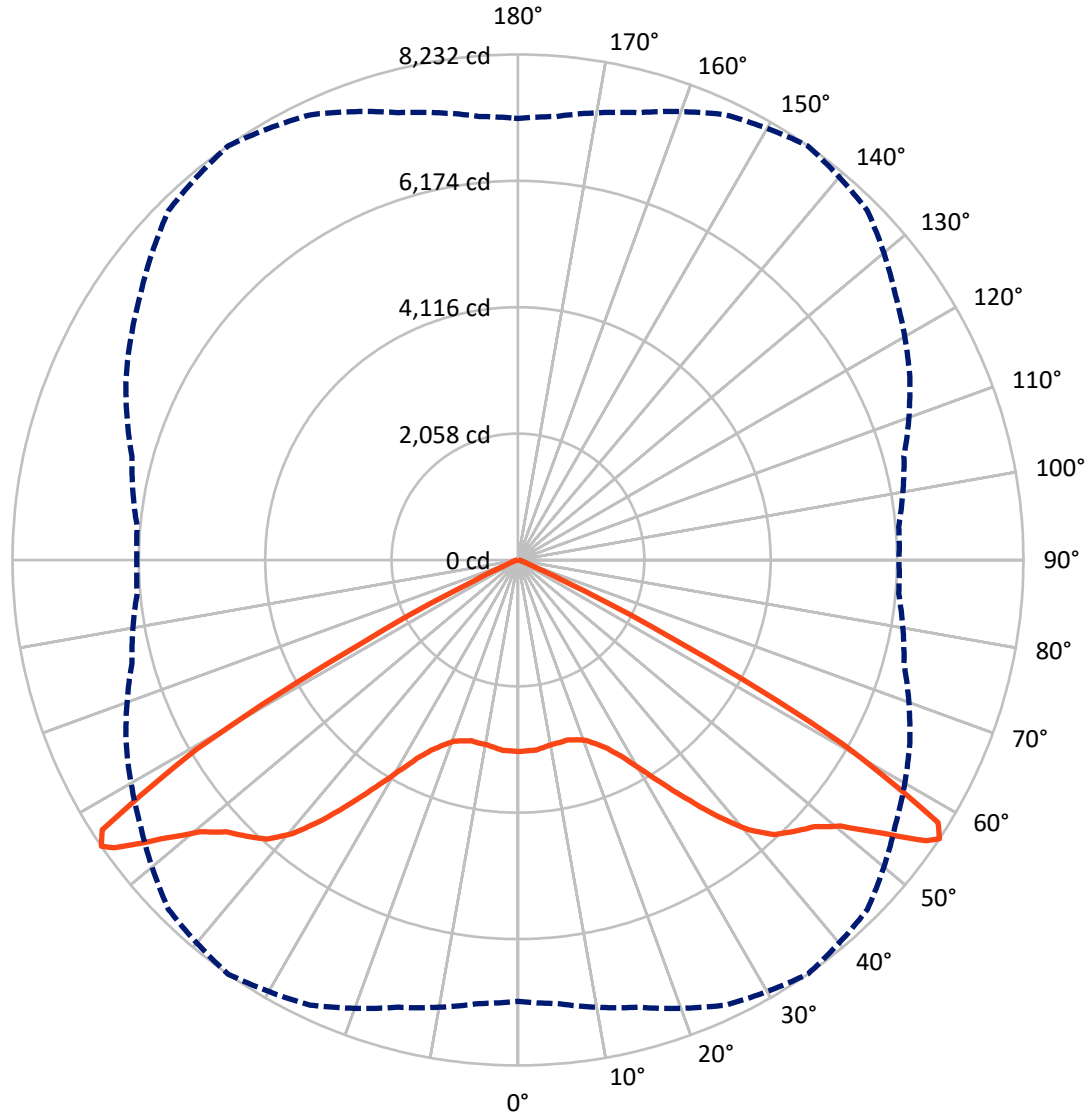
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8904.0	0.0	8904.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8904.0	0.0	8904.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17808.0	0.0	17808.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.3	1.6
10°-20°	856.2	4.8
20°-30°	1550.4	8.7
30°-40°	2875.1	16.1
40°-50°	4719.2	26.5
50°-60°	6079.8	34.1
60°-70°	1339.9	7.5
70°-80°	77.7	0.4
80°-90°	16.4	0.1
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°	17808.0	100.0
0°-180°	17808.0	100.0

Coefficient of Utilization

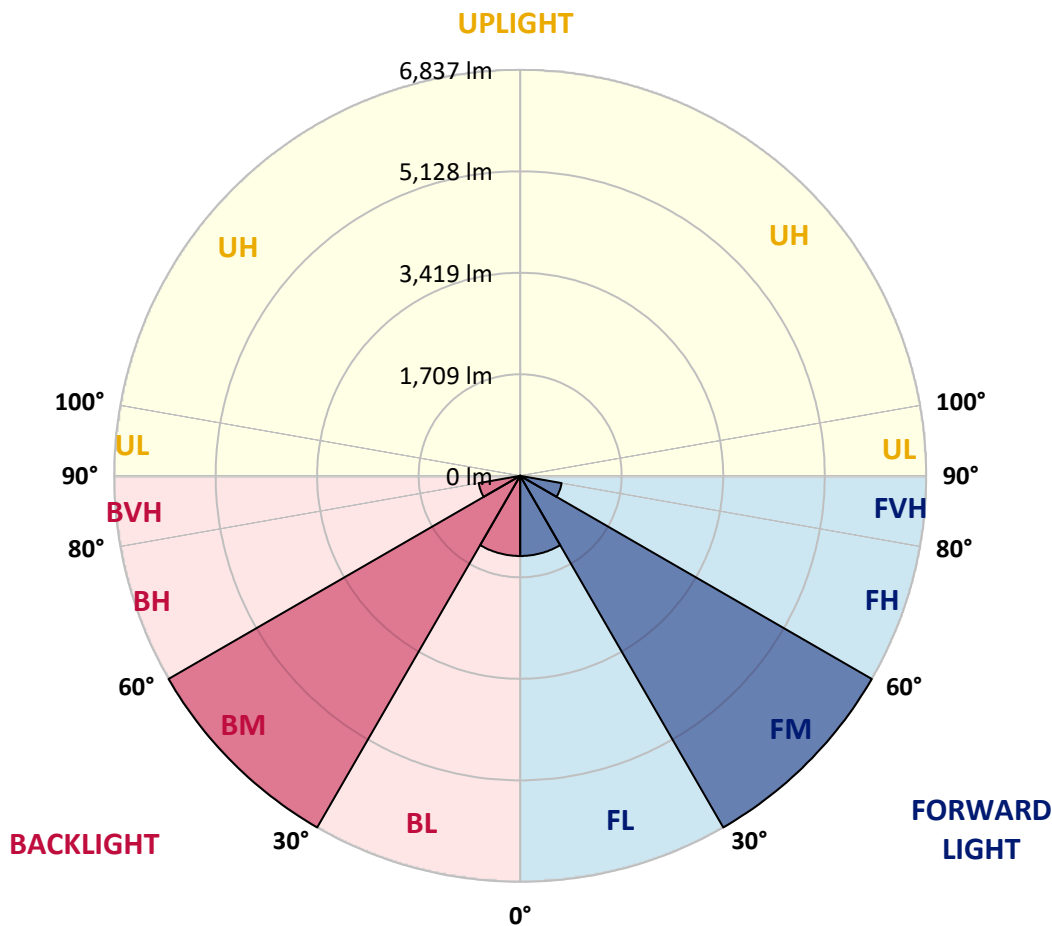


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1349.9	7.6			
FM (30°-60°)	6837.0	38.4			
FH (60°-80°)	708.8	4.0			G1/1800
FVH (80°-90°)	8.2	0.0			G0/10
BL (0°-30°)	1349.9	7.6	B3/2500		
BM (30°-60°)	6837.0	38.4	B4/8500		
BH (60°-80°)	708.8	4.0	B2/1000		G1/1800
BVH (80°-90°)	8.2	0.0			G0/10
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°	3120.3	3120.3	3120.3	3120.3	3120.3	3120.3	3120.3	3120.3	3120.3	3120.3	3120.3
2.5°	3126.8	3126.8	3130.0	3133.3	3110.7	3101.0	3104.2	3097.8	3094.5	3104.2	3104.2
5°	3117.1	3117.1	3107.4	3110.7	3110.7	3081.6	3081.6	3088.1	3088.1	3068.7	3062.3
7.5°	3091.3	3084.8	3071.9	3088.1	3078.4	3078.4	3055.8	3039.7	3033.2	3046.1	3033.2
10°	3036.4	3039.7	3052.6	3059.0	3052.6	3071.9	3033.2	3010.6	2988.0	2978.4	2978.4
12.5°	3010.6	3030.0	3010.6	3026.8	3049.4	3033.2	3010.6	2994.5	2962.2	2949.3	2949.3
15°	3007.4	3020.3	3026.8	3049.4	3039.7	3046.1	3001.0	2981.6	2933.2	2910.6	2900.9
17.5°	3004.2	3020.3	3030.0	3071.9	3078.4	3081.6	3046.1	2988.0	2946.1	2923.5	2900.9
20°	3039.7	3046.1	3065.5	3107.4	3133.3	3178.4	3113.9	3052.6	2962.2	2936.4	2926.7
22.5°	3084.8	3117.1	3136.5	3181.7	3249.4	3288.1	3204.2	3126.8	3033.2	3001.0	2962.2
25°	3230.1	3223.6	3255.9	3349.4	3404.3	3433.3	3365.6	3252.6	3130.0	3091.3	3097.8
27.5°	3410.8	3417.2	3446.3	3549.5	3630.2	3675.4	3594.7	3446.3	3326.9	3262.3	3255.9
30°	3646.3	3639.9	3672.1	3810.9	3956.1	4023.9	3881.9	3707.6	3591.5	3507.6	3526.9
32.5°	3894.8	3898.0	3988.4	4114.2	4349.8	4482.1	4253.0	4040.0	3865.7	3807.7	3778.6
35°	4262.6	4278.8	4349.8	4543.4	4804.7	4975.8	4724.1	4469.2	4269.1	4162.6	4175.5
37.5°	4717.6	4701.5	4820.9	5030.6	5304.9	5430.8	5217.8	4927.4	4724.1	4653.1	4698.3
40°	5201.6	5217.8	5279.1	5469.5	5776.0	5859.9	5543.7	5385.6	5208.1	5172.6	5227.5
42.5°	5685.7	5676.0	5721.2	5892.2	6114.8	6056.8	5869.6	5776.0	5650.2	5579.2	5653.4
45°	6040.6	6024.5	6108.4	6224.6	6305.2	6195.5	6111.6	6079.3	6014.8	5937.4	6005.1
47.5°	6385.9	6373.0	6453.7	6485.9	6492.4	6347.2	6363.3	6421.4	6260.1	6098.7	6176.2
50°	6679.5	6657.0	6757.0	6828.0	6811.8	6579.5	6637.6	6579.5	6327.8	6137.4	6108.4
52.5°	7170.0	7179.7	7286.2	7415.3	7376.5	7182.9	7099.0	6834.4	6511.7	6340.7	6240.7
55°	7479.8	7431.4	7615.3	8025.1	8070.3	7870.2	7499.2	7108.7	6624.7	6414.9	6389.1
56°	7189.4	7250.7	7541.1	7999.3	8231.6	8047.7	7508.8	7040.9	6508.5	6224.6	6205.2
57.5°	6450.4	6418.2	6811.8	7437.8	8070.3	7992.9	7244.2	6556.9	5937.4	5617.9	5579.2
60°	4014.2	4107.8	4453.0	5227.5	6072.9	6111.6	5369.4	4778.9	4056.1	3772.2	3839.9
62.5°	1571.5	1490.8	1707.0	2284.6	2865.4	2994.5	2713.8	2255.6	1852.2	1571.5	1552.1
65°	364.6	355.0	400.1	551.8	771.2	893.8	848.7	609.9	448.5	425.9	393.7
67.5°	206.5	206.5	196.8	196.8	216.2	229.1	219.4	216.2	225.9	235.6	232.3
70°	145.2	142.0	135.5	138.8	132.3	132.3	142.0	158.1	171.0	171.0	174.2
72.5°	87.1	87.1	87.1	96.8	96.8	96.8	106.5	119.4	122.6	119.4	116.2
75°	38.7	38.7	45.2	54.9	61.3	64.5	74.2	80.7	87.1	80.7	74.2
77.5°	9.7	9.7	16.1	22.6	29.0	35.5	48.4	58.1	61.3	58.1	48.4
80°	3.2	3.2	6.5	16.1	29.0	35.5	48.4	51.6	54.9	48.4	38.7
82.5°	3.2	3.2	6.5	16.1	22.6	29.0	38.7	45.2	48.4	41.9	38.7
85°	0.0	3.2	6.5	12.9	19.4	25.8	25.8	19.4	16.1	9.7	12.9
87.5°	0.0	0.0	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)