

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: P531679

Luminaire Tested: **GALN-SA7A-730-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531679
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-730-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 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: 17410 lumens
Efficiency: N/A
Efficacy: 81.0 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

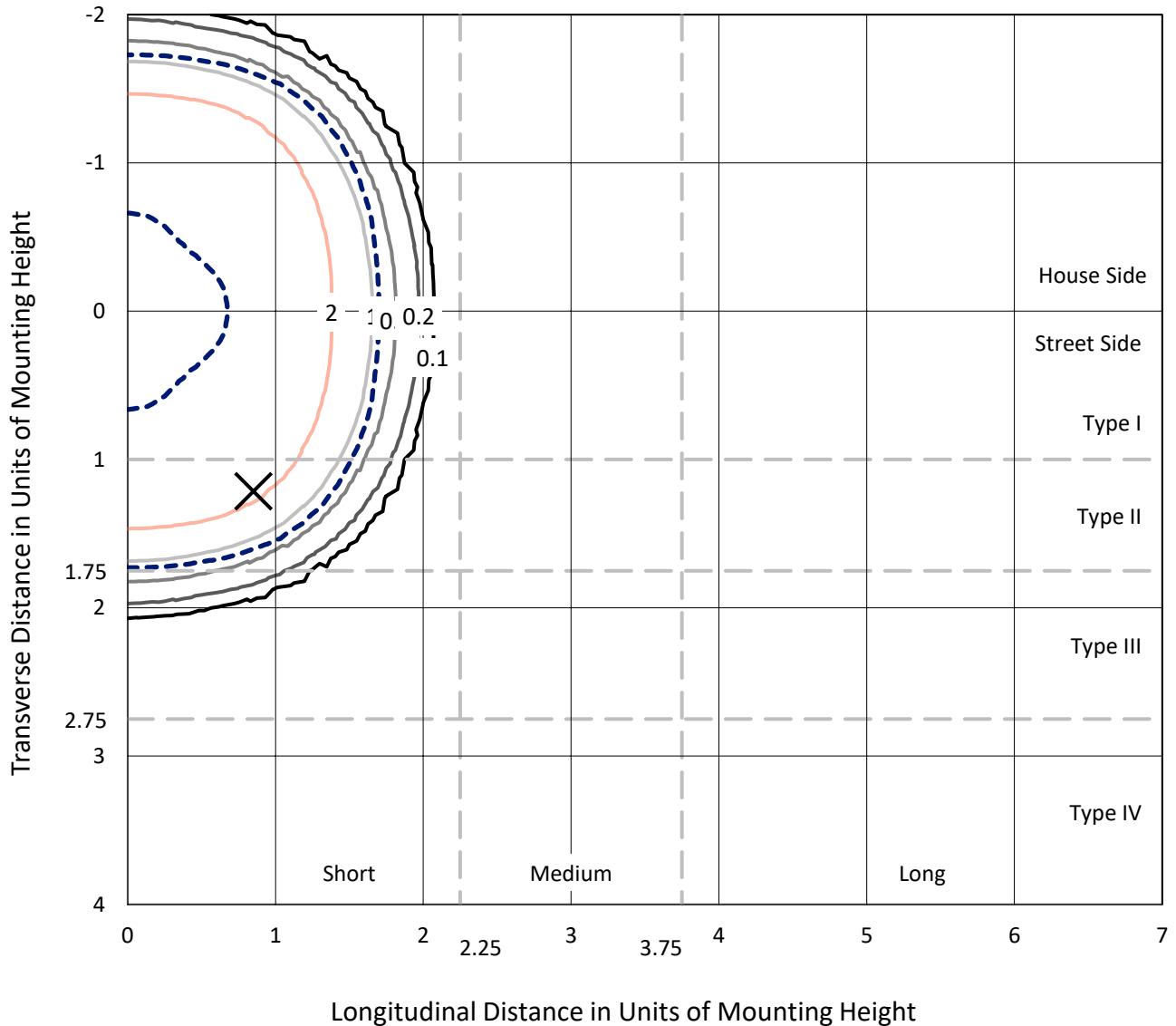
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

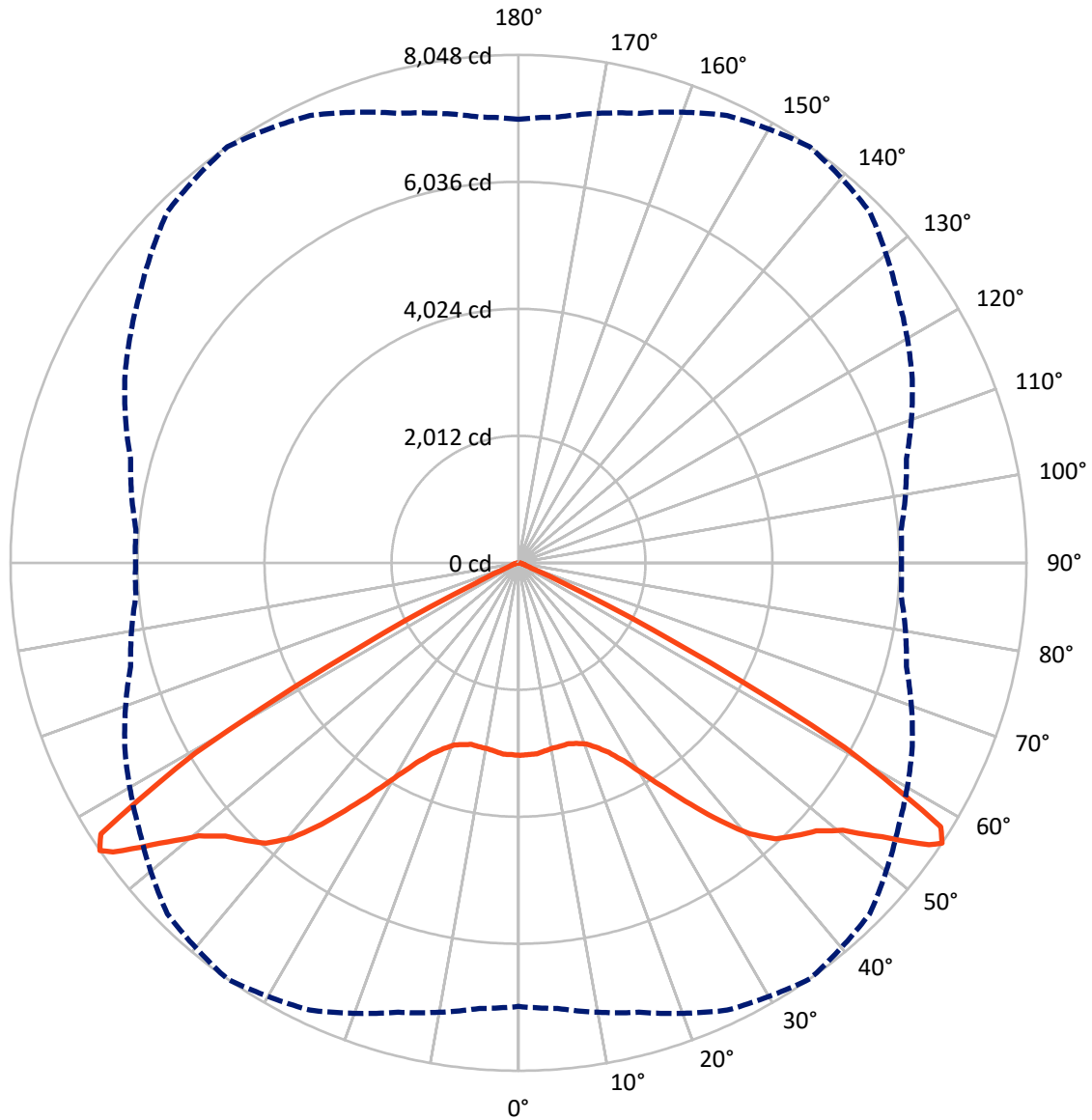
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	8705.0	0.0	8705.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8705.0	0.0	8705.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17410.0	0.0	17410.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.7	1.6
10°-20°	837.1	4.8
20°-30°	1515.8	8.7
30°-40°	2810.8	16.1
40°-50°	4613.8	26.5
50°-60°	5943.9	34.1
60°-70°	1310.0	7.5
70°-80°	76.0	0.4
80°-90°	16.0	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°	17410.0	100.0
0°-180°	17410.0	100.0

Coefficient of Utilization



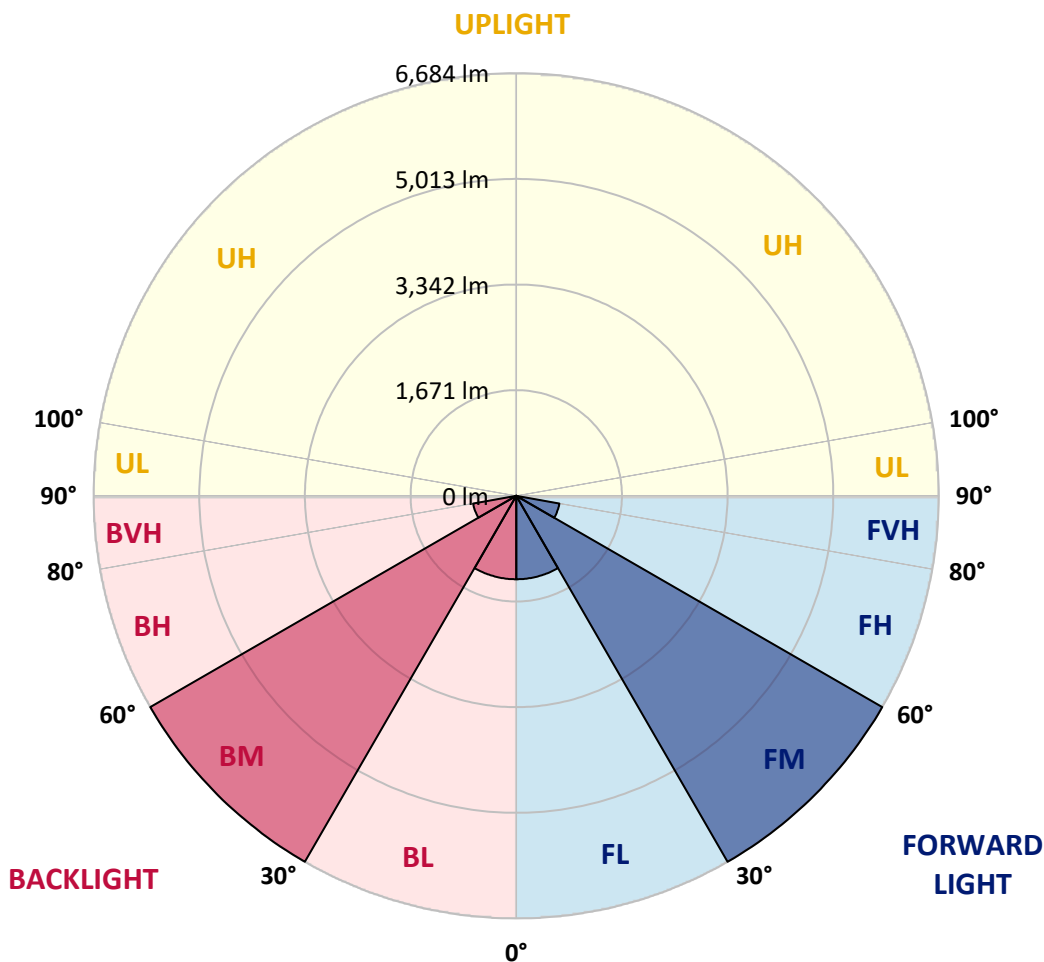
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1319.8	7.6			
FM (30°-60°)	6684.2	38.4			
FH (60°-80°)	693.0	4.0			G1/1800
FVH (80°-90°)	8.0	0.0			G0/10
BL (0°-30°)	1319.8	7.6	B3/2500		
BM (30°-60°)	6684.2	38.4	B4/8500		
BH (60°-80°)	693.0	4.0	B2/1000		G1/1800
BVH (80°-90°)	8.0	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°	3050.6	3050.6	3050.6	3050.6	3050.6	3050.6	3050.6	3050.6	3050.6	3050.6	3050.6
2.5°	3056.9	3056.9	3060.1	3063.2	3041.1	3031.7	3034.8	3028.5	3025.4	3034.8	3034.8
5°	3047.5	3047.5	3038.0	3041.1	3041.1	3012.7	3012.7	3019.1	3019.1	3000.1	2993.8
7.5°	3022.2	3015.9	3003.3	3019.1	3009.6	3009.6	2987.5	2971.7	2965.4	2978.0	2965.4
10°	2968.6	2971.7	2984.4	2990.7	2984.4	3003.3	2965.4	2943.3	2921.3	2911.8	2911.8
12.5°	2943.3	2962.3	2943.3	2959.1	2981.2	2965.4	2943.3	2927.6	2896.0	2883.4	2883.4
15°	2940.2	2952.8	2959.1	2981.2	2971.7	2978.0	2933.9	2915.0	2867.6	2845.6	2836.1
17.5°	2937.0	2952.8	2962.3	3003.3	3009.6	3012.7	2978.0	2921.3	2880.3	2858.2	2836.1
20°	2971.7	2978.0	2997.0	3038.0	3063.2	3107.4	3044.3	2984.4	2896.0	2870.8	2861.3
22.5°	3015.9	3047.5	3066.4	3110.5	3176.8	3214.7	3132.6	3056.9	2965.4	2933.9	2896.0
25°	3157.9	3151.6	3183.1	3274.6	3328.2	3356.6	3290.4	3179.9	3060.1	3022.2	3028.5
27.5°	3334.5	3340.8	3369.2	3470.2	3549.1	3593.2	3514.3	3369.2	3252.5	3189.4	3183.1
30°	3564.8	3558.5	3590.1	3725.7	3867.7	3933.9	3795.1	3624.8	3511.2	3429.2	3448.1
32.5°	3807.7	3810.9	3899.2	4022.3	4252.6	4381.9	4157.9	3949.7	3779.3	3722.6	3694.2
35°	4167.4	4183.1	4252.6	4441.8	4697.4	4864.6	4618.5	4369.3	4173.7	4069.6	4082.2
37.5°	4612.2	4596.4	4713.1	4918.2	5186.3	5309.4	5101.2	4817.2	4618.5	4549.1	4593.3
40°	5085.4	5101.2	5161.1	5347.2	5646.9	5729.0	5419.8	5265.2	5091.7	5057.0	5110.6
42.5°	5558.6	5549.1	5593.3	5760.5	5978.2	5921.4	5738.4	5646.9	5523.9	5454.5	5527.1
45°	5905.6	5889.8	5971.9	6085.4	6164.3	6057.0	5975.0	5943.5	5880.4	5804.7	5870.9
47.5°	6243.2	6230.6	6309.4	6341.0	6347.3	6205.3	6221.1	6277.9	6120.1	5962.4	6038.1
50°	6530.3	6508.2	6606.0	6675.4	6659.6	6432.5	6489.2	6432.5	6186.4	6000.3	5971.9
52.5°	7009.8	7019.2	7123.3	7249.5	7211.7	7022.4	6940.4	6681.7	6366.2	6199.0	6101.2
55°	7312.6	7265.3	7445.1	7845.8	7889.9	7694.3	7331.6	6949.8	6476.6	6271.6	6246.3
56°	7028.7	7088.6	7372.6	7820.5	8047.7	7867.9	7341.0	6883.6	6363.1	6085.4	6066.5
57.5°	6306.3	6274.7	6659.6	7271.6	7889.9	7814.2	7082.3	6410.4	5804.7	5492.4	5454.5
60°	3924.5	4015.9	4353.5	5110.6	5937.2	5975.0	5249.4	4672.1	3965.5	3687.9	3754.1
62.5°	1536.3	1457.5	1668.8	2233.5	2801.4	2927.6	2653.1	2205.1	1810.8	1536.3	1517.4
65°	356.5	347.0	391.2	539.5	754.0	873.9	829.7	596.2	438.5	416.4	384.9
67.5°	201.9	201.9	192.4	192.4	211.4	224.0	214.5	211.4	220.8	230.3	227.1
70°	142.0	138.8	132.5	135.7	129.3	129.3	138.8	154.6	167.2	167.2	170.4
72.5°	85.2	85.2	85.2	94.6	94.6	94.6	104.1	116.7	119.9	116.7	113.6
75°	37.9	37.9	44.2	53.6	59.9	63.1	72.6	78.9	85.2	78.9	72.6
77.5°	9.5	9.5	15.8	22.1	28.4	34.7	47.3	56.8	59.9	56.8	47.3
80°	3.2	3.2	6.3	15.8	28.4	34.7	47.3	50.5	53.6	47.3	37.9
82.5°	3.2	3.2	6.3	15.8	22.1	28.4	37.9	44.2	47.3	41.0	37.9
85°	0.0	3.2	6.3	12.6	18.9	25.2	25.2	18.9	15.8	9.5	12.6
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)