

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: P531731

Luminaire Tested: **GALN-SA7A-740-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531731
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-740-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 19116 lumens
Efficiency: N/A
Efficacy: 88.9 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

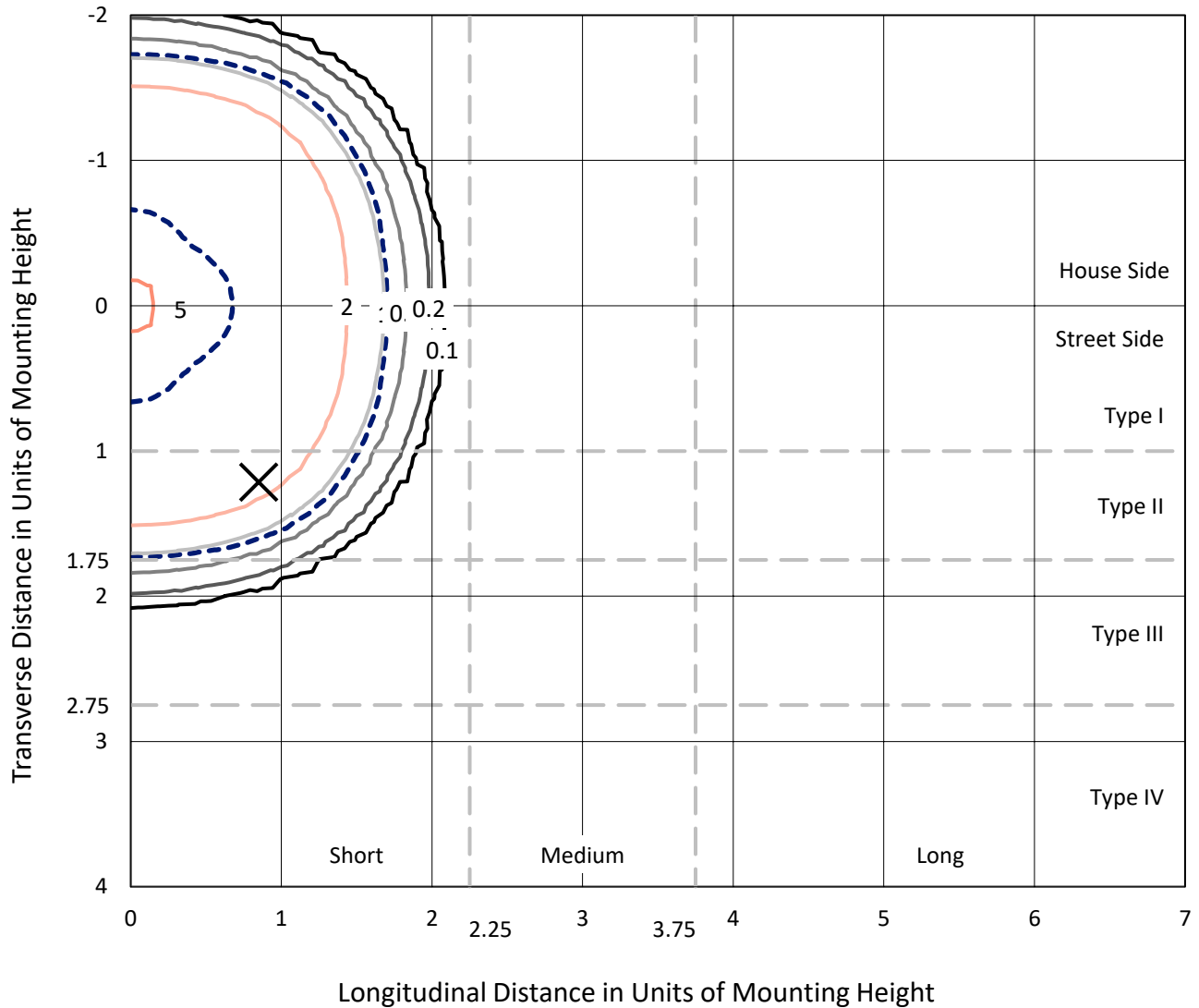
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

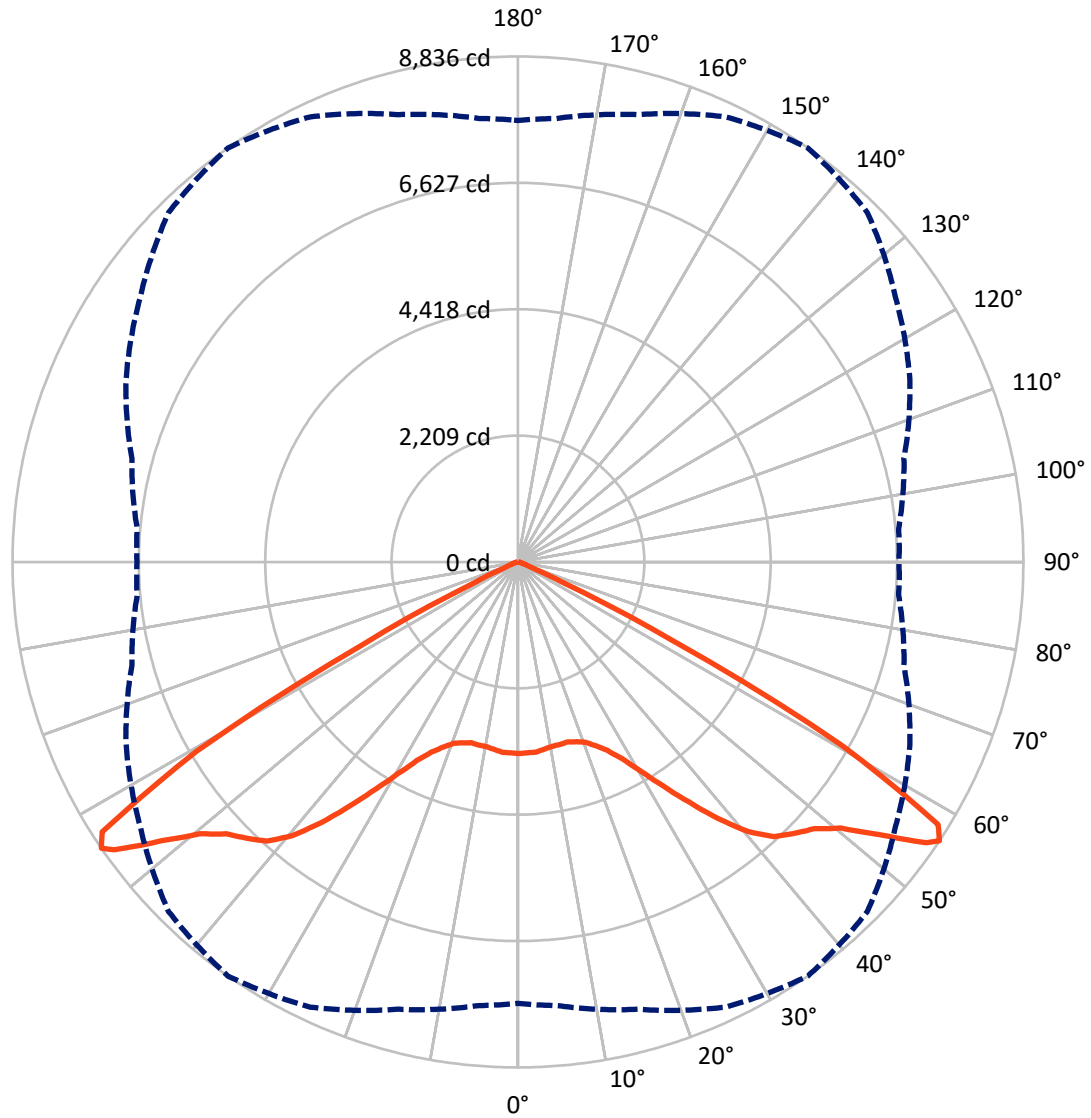
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	9558.0	0.0	9558.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9558.0	0.0	9558.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19116.0	0.0	19116.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.8	1.6
10°-20°	919.1	4.8
20°-30°	1664.3	8.7
30°-40°	3086.3	16.1
40°-50°	5065.9	26.5
50°-60°	6526.3	34.1
60°-70°	1438.3	7.5
70°-80°	83.5	0.4
80°-90°	17.6	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°	19116.0	100.0
0°-180°	19116.0	100.0

Coefficient of Utilization



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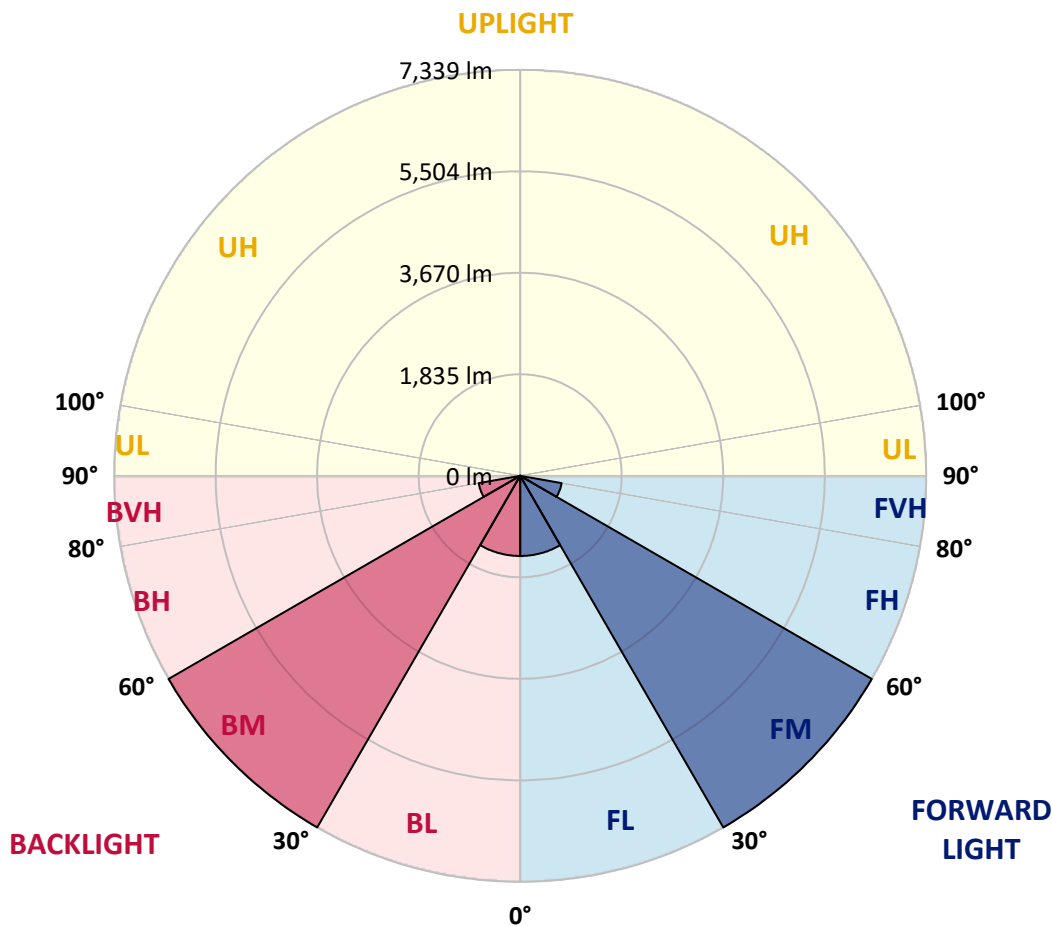
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1449.1	7.6			
FM (30°-60°)	7339.2	38.4			
FH (60°-80°)	760.9	4.0			G1/1800
FVH (80°-90°)	8.8	0.0			G0/10
BL (0°-30°)	1449.1	7.6	B3/2500		
BM (30°-60°)	7339.2	38.4	B4/8500		
BH (60°-80°)	760.9	4.0	B2/1000		G1/1800
BVH (80°-90°)	8.8	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°	3349.5	3349.5	3349.5	3349.5	3349.5	3349.5	3349.5	3349.5	3349.5	3349.5	3349.5
2.5°	3356.5	3356.5	3359.9	3363.4	3339.1	3328.8	3332.2	3325.3	3321.8	3332.2	3332.2
5°	3346.1	3346.1	3335.7	3339.1	3339.1	3308.0	3308.0	3314.9	3314.9	3294.1	3287.2
7.5°	3318.4	3311.4	3297.6	3314.9	3304.5	3304.5	3280.3	3262.9	3256.0	3269.9	3256.0
10°	3259.5	3262.9	3276.8	3283.7	3276.8	3297.6	3256.0	3231.8	3207.5	3197.1	3197.1
12.5°	3231.8	3252.5	3231.8	3249.1	3273.3	3256.0	3231.8	3214.4	3179.8	3166.0	3166.0
15°	3228.3	3242.2	3249.1	3273.3	3262.9	3269.9	3221.4	3200.6	3148.6	3124.4	3114.0
17.5°	3224.8	3242.2	3252.5	3297.6	3304.5	3308.0	3269.9	3207.5	3162.5	3138.2	3114.0
20°	3262.9	3269.9	3290.6	3335.7	3363.4	3411.9	3342.6	3276.8	3179.8	3152.1	3141.7
22.5°	3311.4	3346.1	3366.9	3415.3	3488.1	3529.7	3439.6	3356.5	3256.0	3221.4	3179.8
25°	3467.3	3460.4	3495.0	3595.5	3654.4	3685.5	3612.8	3491.6	3359.9	3318.4	3325.3
27.5°	3661.3	3668.2	3699.4	3810.2	3896.8	3945.3	3858.7	3699.4	3571.2	3501.9	3495.0
30°	3914.1	3907.2	3941.9	4090.8	4246.7	4319.4	4167.0	3980.0	3855.3	3765.2	3786.0
32.5°	4180.9	4184.3	4281.3	4416.4	4669.3	4811.3	4565.3	4336.7	4149.7	4087.3	4056.2
35°	4575.7	4593.1	4669.3	4877.1	5157.7	5341.2	5071.1	4797.4	4582.7	4468.4	4482.2
37.5°	5064.1	5046.8	5175.0	5400.1	5694.6	5829.6	5601.0	5289.3	5071.1	4994.9	5043.4
40°	5583.7	5601.0	5666.8	5871.2	6200.3	6290.3	5950.9	5781.2	5590.6	5552.5	5611.4
42.5°	6103.3	6092.9	6141.4	6325.0	6564.0	6501.6	6300.7	6200.3	6065.2	5989.0	6068.6
45°	6484.3	6467.0	6557.1	6681.7	6768.3	6650.6	6560.5	6525.9	6456.6	6373.5	6446.2
47.5°	6854.9	6841.1	6927.7	6962.3	6969.2	6813.4	6830.7	6893.0	6719.9	6546.7	6629.8
50°	7170.2	7145.9	7253.3	7329.5	7312.2	7062.8	7125.1	7062.8	6792.6	6588.2	6557.1
52.5°	7696.7	7707.0	7821.4	7959.9	7918.3	7710.5	7620.5	7336.4	6990.0	6806.4	6699.1
55°	8029.2	7977.2	8174.7	8614.6	8663.1	8448.3	8050.0	7630.8	7111.3	6886.1	6858.4
56°	7717.4	7783.3	8095.0	8586.9	8836.3	8638.8	8060.4	7558.1	6986.6	6681.7	6661.0
57.5°	6924.2	6889.6	7312.2	7984.2	8663.1	8579.9	7776.3	7038.5	6373.5	6030.5	5989.0
60°	4309.0	4409.5	4780.1	5611.4	6518.9	6560.5	5763.8	5129.9	4354.0	4049.2	4122.0
62.5°	1686.9	1600.3	1832.4	2452.4	3075.9	3214.4	2913.1	2421.2	1988.2	1686.9	1666.1
65°	391.4	381.0	429.5	592.3	827.9	959.5	911.0	654.7	481.5	457.2	422.6
67.5°	221.7	221.7	211.3	211.3	232.1	245.9	235.5	232.1	242.5	252.9	249.4
70°	155.9	152.4	145.5	148.9	142.0	142.0	152.4	169.7	183.6	183.6	187.0
72.5°	93.5	93.5	93.5	103.9	103.9	103.9	114.3	128.2	131.6	128.2	124.7
75°	41.6	41.6	48.5	58.9	65.8	69.3	79.7	86.6	93.5	86.6	79.7
77.5°	10.4	10.4	17.3	24.2	31.2	38.1	52.0	62.3	65.8	62.3	52.0
80°	3.5	3.5	6.9	17.3	31.2	38.1	52.0	55.4	58.9	52.0	41.6
82.5°	3.5	3.5	6.9	17.3	24.2	31.2	41.6	48.5	52.0	45.0	41.6
85°	0.0	3.5	6.9	13.9	20.8	27.7	27.7	20.8	17.3	10.4	13.9
87.5°	0.0	0.0	3.5	3.5	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)