

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: P531627

Luminaire Tested: **GALN-SA7A-722-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531627
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-722-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2200K, 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: 14052 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

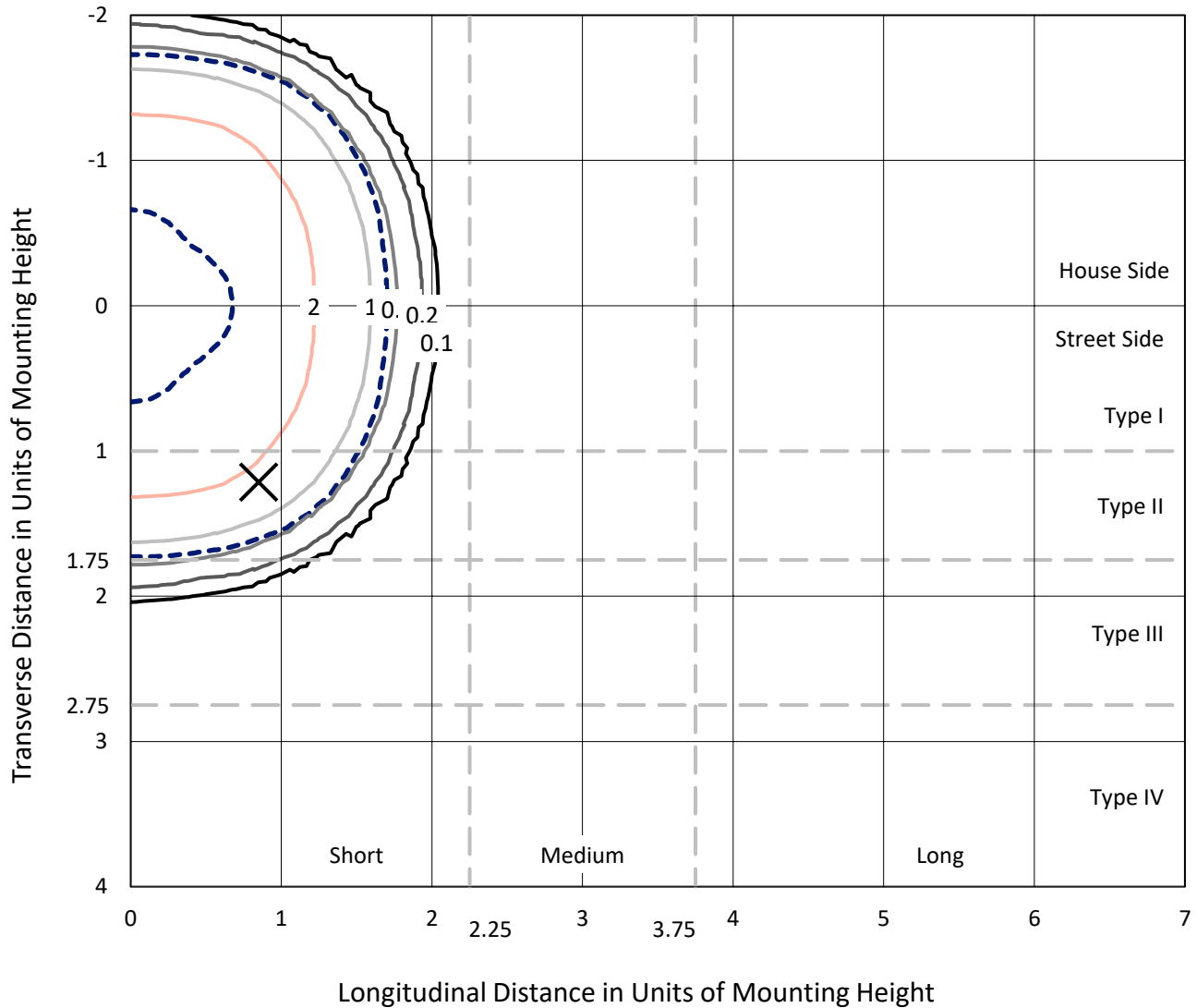
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

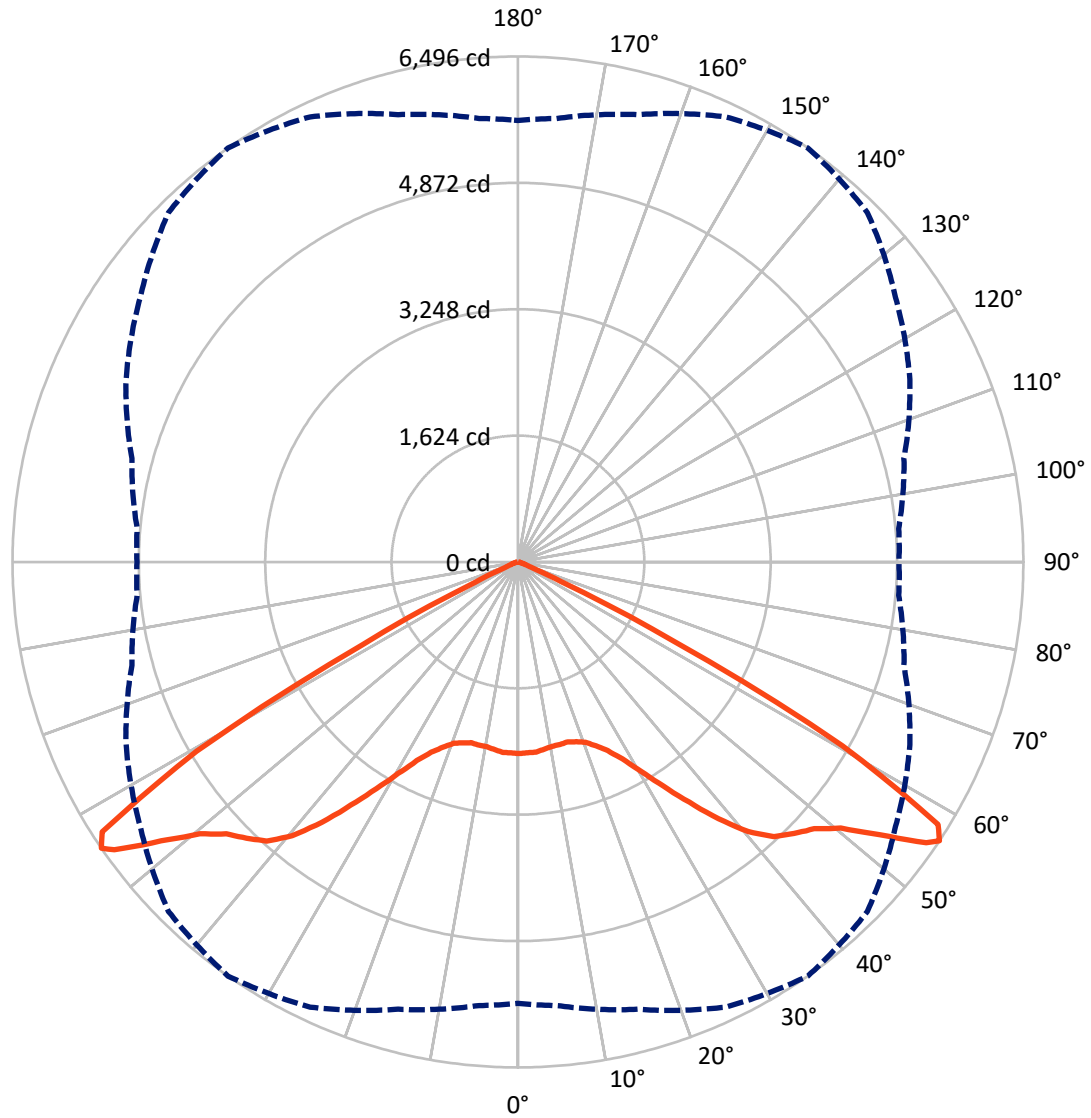
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	7026.0	0.0	7026.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7026.0	0.0	7026.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14052.0	0.0	14052.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.4	1.6
10°-20°	675.6	4.8
20°-30°	1223.4	8.7
30°-40°	2268.7	16.1
40°-50°	3723.9	26.5
50°-60°	4797.5	34.1
60°-70°	1057.3	7.5
70°-80°	61.3	0.4
80°-90°	12.9	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°	14052.0	100.0
0°-180°	14052.0	100.0

Coefficient of Utilization



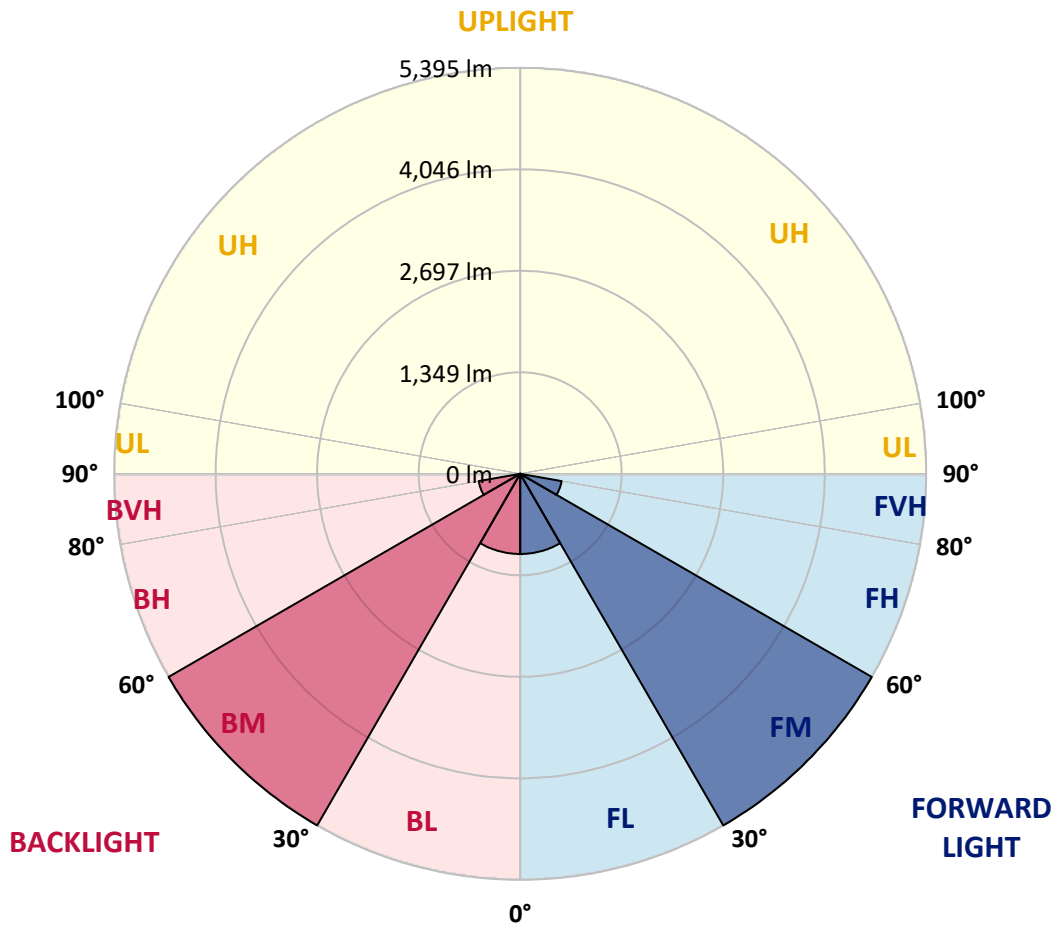
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1065.2	7.6			
FM (30°-60°)	5395.0	38.4			
FH (60°-80°)	559.3	4.0			G0/660
FVH (80°-90°)	6.5	0.0			G0/10
BL (0°-30°)	1065.2	7.6	B3/2500		
BM (30°-60°)	5395.0	38.4	B4/8500		
BH (60°-80°)	559.3	4.0	B2/1000		G0/660
BVH (80°-90°)	6.5	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-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2462.2	2462.2	2462.2	2462.2	2462.2	2462.2	2462.2	2462.2	2462.2	2462.2	2462.2
2.5°	2467.3	2467.3	2469.9	2472.4	2454.6	2446.9	2449.5	2444.4	2441.8	2449.5	2449.5
5°	2459.7	2459.7	2452.0	2454.6	2454.6	2431.7	2431.7	2436.8	2436.8	2421.5	2416.4
7.5°	2439.3	2434.2	2424.0	2436.8	2429.1	2429.1	2411.3	2398.6	2393.5	2403.6	2393.5
10°	2396.0	2398.6	2408.7	2413.8	2408.7	2424.0	2393.5	2375.6	2357.8	2350.2	2350.2
12.5°	2375.6	2390.9	2375.6	2388.4	2406.2	2393.5	2375.6	2362.9	2337.4	2327.3	2327.3
15°	2373.1	2383.3	2388.4	2406.2	2398.6	2403.6	2368.0	2352.7	2314.5	2296.7	2289.1
17.5°	2370.5	2383.3	2390.9	2424.0	2429.1	2431.7	2403.6	2357.8	2324.7	2306.9	2289.1
20°	2398.6	2403.6	2418.9	2452.0	2472.4	2508.0	2457.1	2408.7	2337.4	2317.1	2309.4
22.5°	2434.2	2459.7	2474.9	2510.6	2564.1	2594.6	2528.4	2467.3	2393.5	2368.0	2337.4
25°	2548.8	2543.7	2569.2	2643.0	2686.3	2709.2	2655.7	2566.6	2469.9	2439.3	2444.4
27.5°	2691.4	2696.5	2719.4	2800.9	2864.5	2900.2	2836.5	2719.4	2625.2	2574.2	2569.2
30°	2877.2	2872.2	2897.6	3007.1	3121.7	3175.2	3063.1	2925.6	2834.0	2767.8	2783.0
32.5°	3073.3	3075.9	3147.2	3246.5	3432.3	3536.7	3355.9	3187.9	3050.4	3004.6	2981.6
35°	3363.6	3376.3	3432.3	3585.1	3791.3	3926.3	3727.7	3526.5	3368.7	3284.6	3294.8
37.5°	3722.6	3709.9	3804.1	3969.6	4186.0	4285.3	4117.3	3888.1	3727.7	3671.7	3707.3
40°	4104.5	4117.3	4165.6	4315.9	4557.8	4624.0	4374.4	4249.7	4109.6	4081.6	4124.9
42.5°	4486.5	4478.8	4514.5	4649.4	4825.1	4779.3	4631.6	4557.8	4458.5	4402.4	4461.0
45°	4766.6	4753.8	4820.0	4911.7	4975.3	4888.8	4822.6	4797.1	4746.2	4685.1	4738.5
47.5°	5039.0	5028.8	5092.5	5117.9	5123.0	5008.5	5021.2	5067.0	4939.7	4812.4	4873.5
50°	5270.7	5252.9	5331.8	5387.8	5375.1	5191.8	5237.6	5191.8	4993.2	4842.9	4820.0
52.5°	5657.7	5665.4	5749.4	5851.3	5820.7	5667.9	5601.7	5392.9	5138.3	5003.4	4924.4
55°	5902.2	5864.0	6009.1	6332.5	6368.1	6210.3	5917.5	5609.4	5227.4	5061.9	5041.6
56°	5673.0	5721.4	5950.6	6312.1	6495.5	6350.3	5925.1	5555.9	5135.8	4911.7	4896.4
57.5°	5089.9	5064.5	5375.1	5869.1	6368.1	6307.0	5716.3	5174.0	4685.1	4433.0	4402.4
60°	3167.5	3241.4	3513.8	4124.9	4792.0	4822.6	4236.9	3771.0	3200.6	2976.6	3030.0
62.5°	1240.0	1176.4	1347.0	1802.7	2261.1	2362.9	2141.4	1779.8	1461.5	1240.0	1224.7
65°	287.7	280.1	315.7	435.4	608.6	705.3	669.7	481.2	353.9	336.1	310.6
67.5°	163.0	163.0	155.3	155.3	170.6	180.8	173.1	170.6	178.2	185.9	183.3
70°	114.6	112.0	106.9	109.5	104.4	104.4	112.0	124.8	135.0	135.0	137.5
72.5°	68.7	68.7	68.7	76.4	76.4	76.4	84.0	94.2	96.8	94.2	91.7
75°	30.6	30.6	35.6	43.3	48.4	50.9	58.6	63.7	68.7	63.7	58.6
77.5°	7.6	7.6	12.7	17.8	22.9	28.0	38.2	45.8	48.4	45.8	38.2
80°	2.5	2.5	5.1	12.7	22.9	28.0	38.2	40.7	43.3	38.2	30.6
82.5°	2.5	2.5	5.1	12.7	17.8	22.9	30.6	35.6	38.2	33.1	30.6
85°	0.0	2.5	5.1	10.2	15.3	20.4	20.4	15.3	12.7	7.6	10.2
87.5°	0.0	0.0	2.5	2.5	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)