

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: P454830

Luminaire Tested: **GALN-SA6A-727-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454830
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-SA6A-727-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23786 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

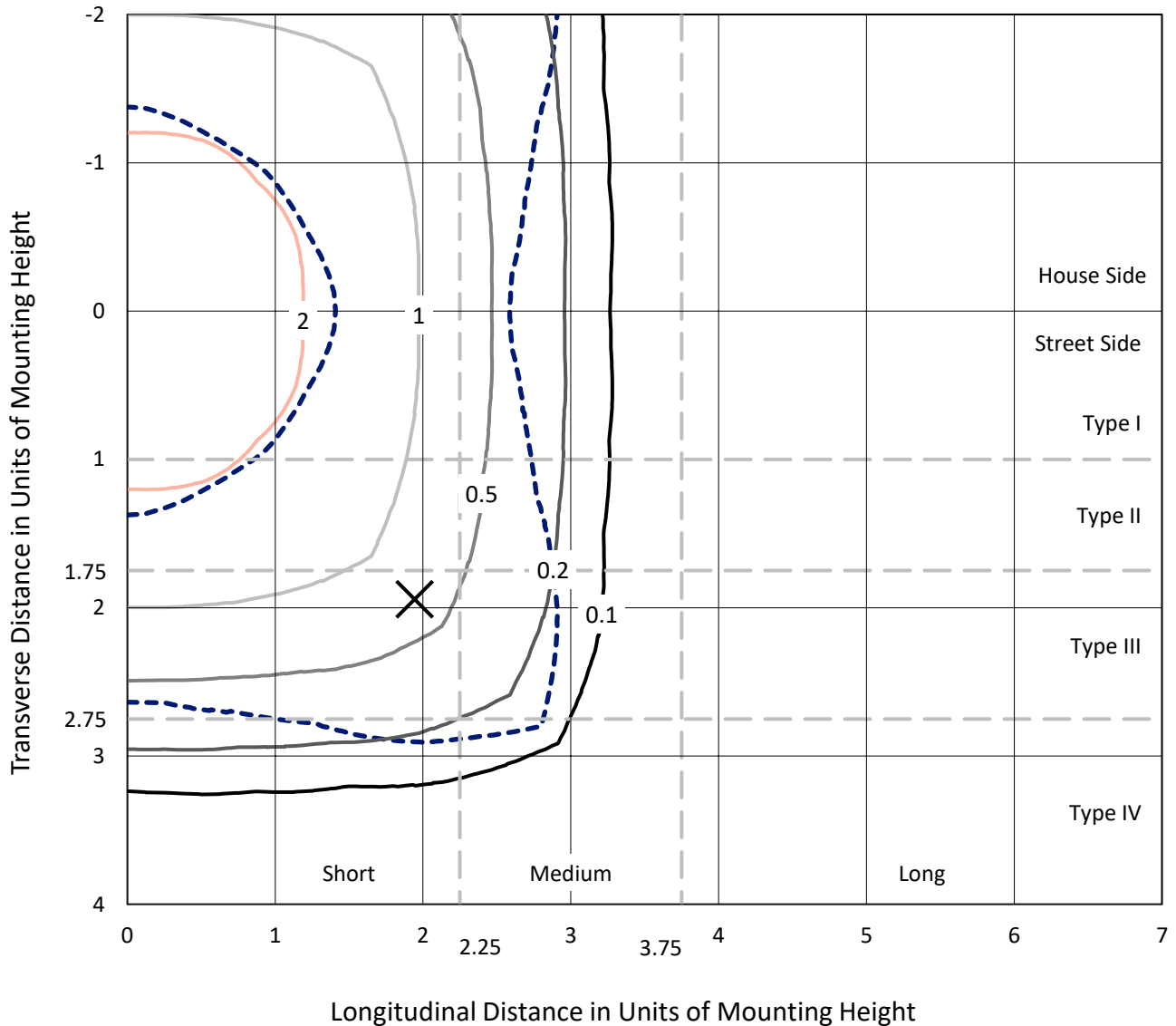
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

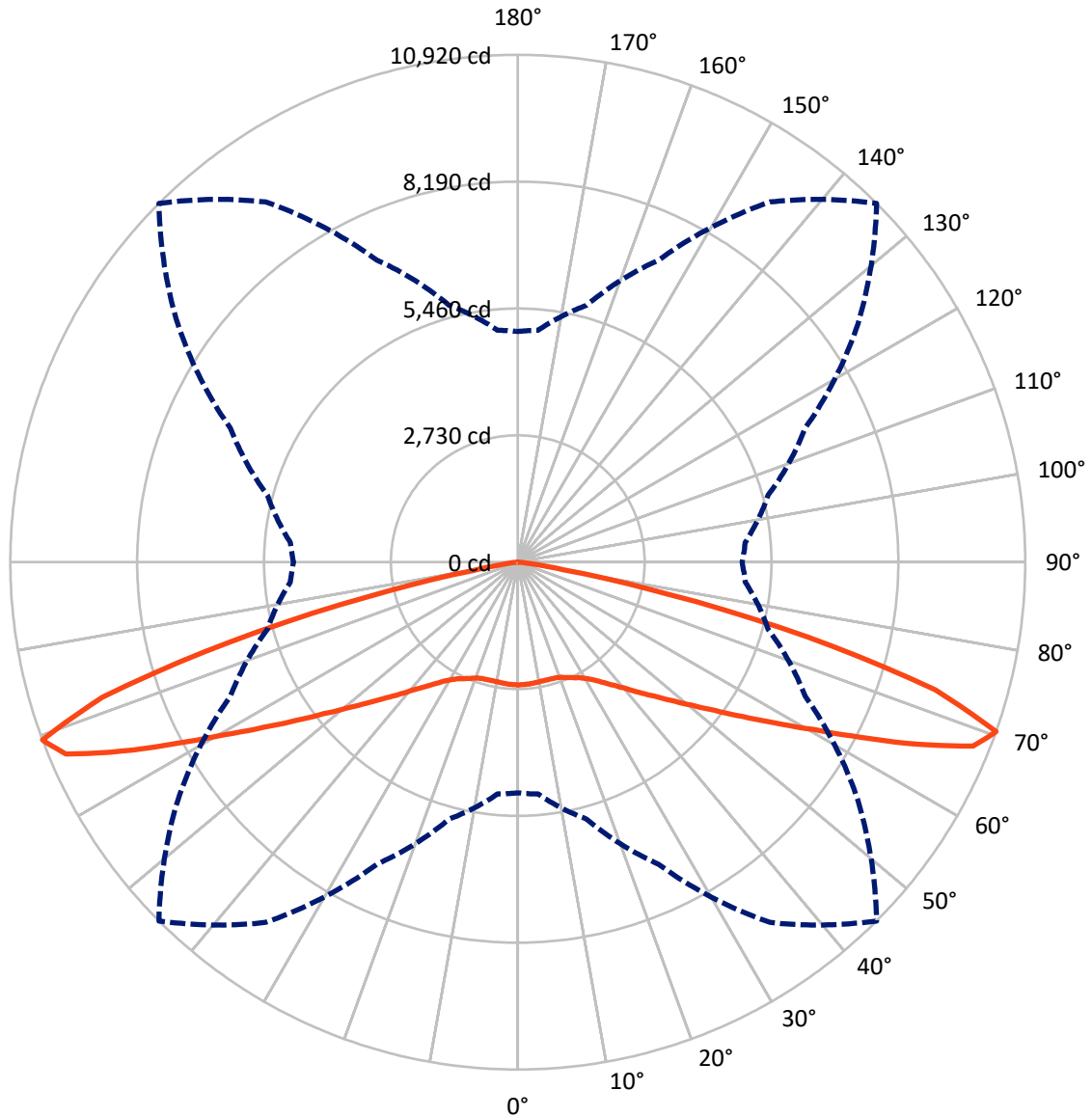
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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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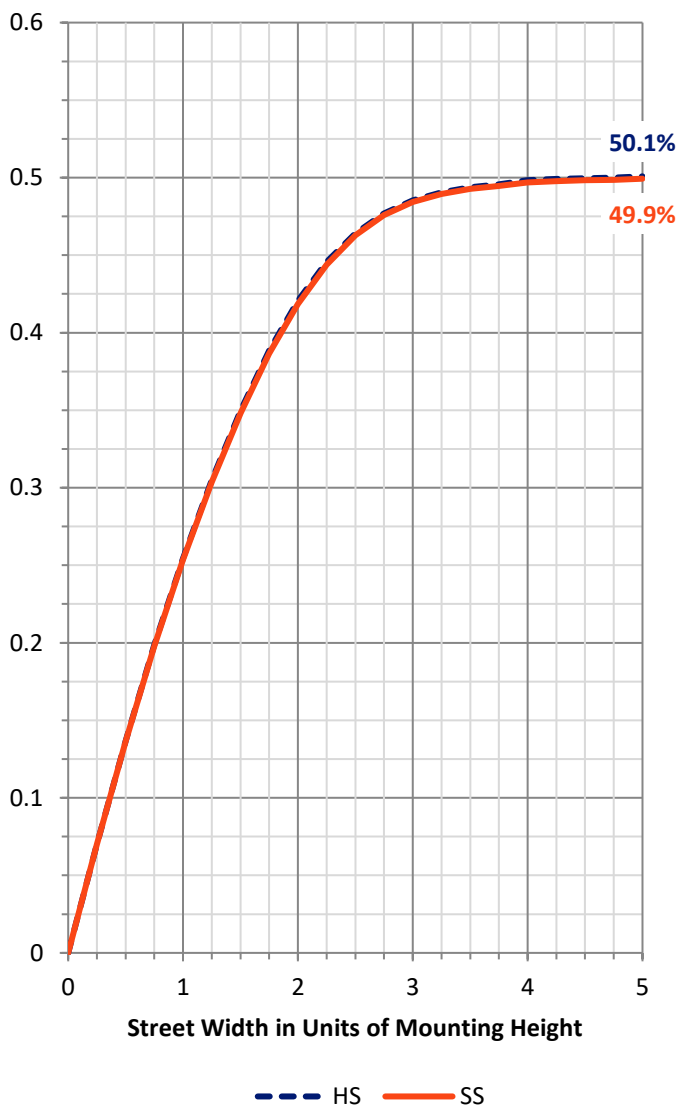
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11893.0	0.0	11893.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11893.0	0.0	11893.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23786.0	0.0	23786.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.5	1.1
10°-20°	735.0	3.1
20°-30°	1257.1	5.3
30°-40°	1995.2	8.4
40°-50°	3218.8	13.5
50°-60°	5237.1	22.0
60°-70°	7591.9	31.9
70°-80°	3367.5	14.2
80°-90°	132.8	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°	23786.0	100.0
0°-180°	23786.0	100.0

Coefficient of Utilization



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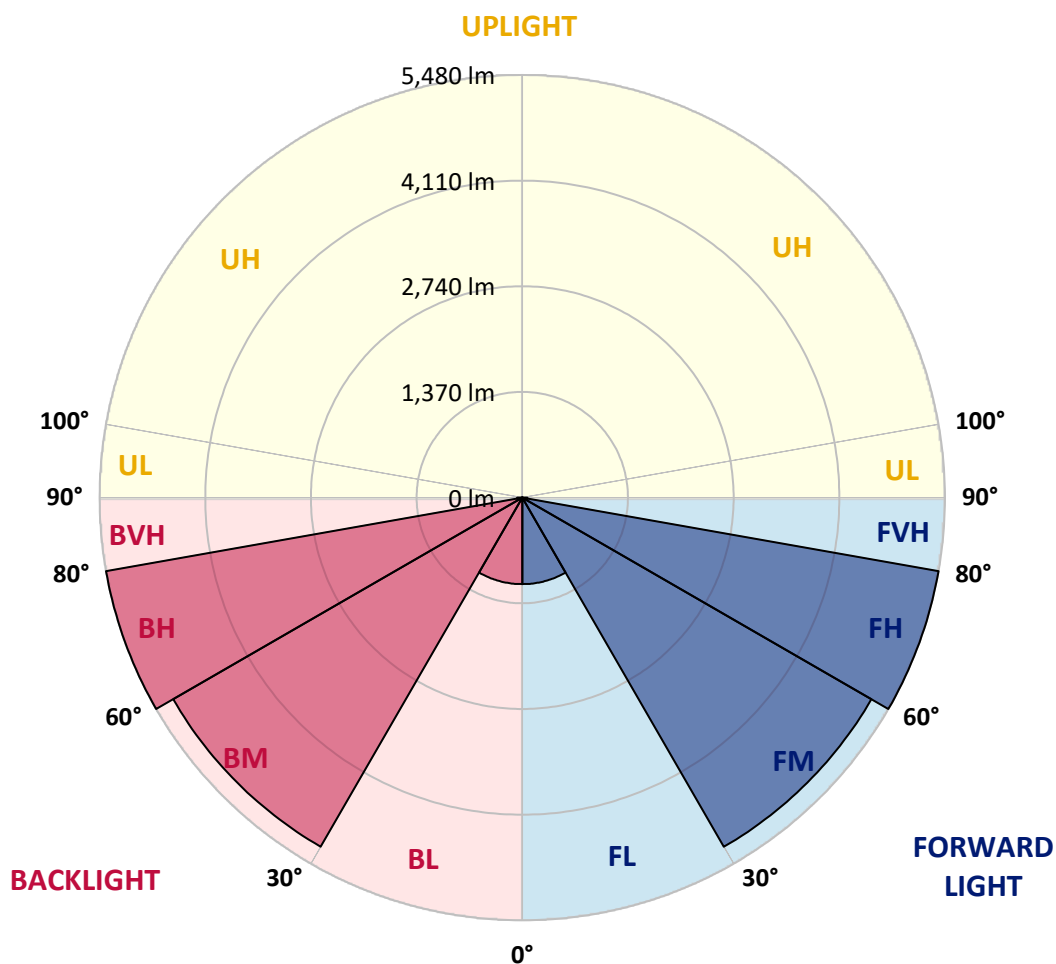
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1121.3	4.7			
FM (30°-60°)	5225.6	22.0			
FH (60°-80°)	5479.7	23.0			G3/7500
FVH (80°-90°)	66.4	0.3			G1/100
BL (0°-30°)	1121.3	4.7	B3/2500		
BM (30°-60°)	5225.6	22.0	B4/8500		
BH (60°-80°)	5479.7	23.0	B5		G3/7500
BVH (80°-90°)	66.4	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°	2641.3	2641.3	2641.3	2641.3	2641.3	2641.3	2641.3	2641.3	2641.3	2641.3	2641.3
2.5°	2641.3	2643.8	2640.1	2637.6	2636.3	2636.3	2635.1	2636.3	2643.8	2645.1	2641.3
5°	2633.8	2636.3	2635.1	2632.5	2631.3	2631.3	2630.0	2628.8	2635.1	2637.6	2636.3
7.5°	2623.8	2625.0	2623.8	2622.5	2623.8	2622.5	2618.8	2616.3	2621.3	2621.3	2620.0
10°	2606.2	2608.7	2607.5	2608.7	2611.2	2611.2	2606.2	2601.2	2602.5	2600.0	2600.0
12.5°	2584.9	2588.7	2589.9	2594.9	2601.2	2608.7	2597.4	2586.2	2583.7	2582.4	2581.2
15°	2571.1	2574.9	2579.9	2584.9	2596.2	2612.5	2596.2	2578.6	2573.6	2568.6	2566.1
17.5°	2567.4	2572.4	2579.9	2587.4	2602.5	2618.8	2605.0	2587.4	2574.9	2567.4	2564.9
20°	2577.4	2581.2	2592.4	2606.2	2627.5	2643.8	2630.0	2611.2	2592.4	2581.2	2577.4
22.5°	2597.4	2603.7	2617.5	2642.6	2672.7	2696.5	2677.7	2646.3	2616.3	2601.2	2596.2
25°	2641.3	2646.3	2662.6	2696.5	2731.6	2754.1	2734.1	2697.7	2656.4	2636.3	2630.0
27.5°	2707.8	2715.3	2732.8	2773.0	2801.8	2814.3	2800.5	2775.5	2745.4	2724.1	2719.0
30°	2801.8	2810.6	2836.9	2879.5	2898.3	2905.8	2899.6	2883.3	2862.0	2839.4	2834.4
32.5°	2928.4	2933.4	2963.5	3003.6	3021.2	3023.7	3016.1	3008.6	2973.5	2935.9	2933.4
35°	3070.1	3078.8	3115.2	3162.8	3179.1	3180.4	3165.3	3154.0	3112.7	3082.6	3082.6
37.5°	3258.1	3261.9	3297.0	3350.9	3368.4	3363.4	3355.9	3345.8	3302.0	3263.1	3264.4
40°	3478.7	3486.2	3516.3	3579.0	3579.0	3572.7	3577.8	3570.2	3526.4	3488.8	3490.0
42.5°	3740.7	3744.5	3780.8	3847.3	3842.3	3829.7	3834.7	3824.7	3797.1	3754.5	3739.5
45°	4020.3	4035.3	4098.0	4161.9	4151.9	4111.8	4131.8	4129.3	4104.3	4040.3	4044.1
47.5°	4357.5	4382.6	4442.7	4519.2	4507.9	4445.2	4467.8	4482.9	4447.8	4377.6	4365.0
50°	4737.3	4753.6	4842.6	4914.1	4904.1	4837.6	4889.0	4891.5	4803.8	4704.7	4704.7
52.5°	5142.2	5158.5	5278.9	5390.5	5396.7	5300.2	5341.6	5339.1	5196.1	5065.8	5040.7
55°	5596.0	5603.6	5759.0	5923.2	5958.3	5864.3	5869.3	5819.2	5633.7	5482.0	5468.2
57.5°	6064.9	6092.5	6264.2	6477.3	6581.4	6523.7	6497.4	6363.2	6184.0	6009.7	6001.0
60°	6583.9	6585.1	6808.3	7060.2	7270.8	7309.7	7201.9	7022.6	6790.7	6560.1	6550.0
62.5°	6943.7	6997.6	7279.6	7705.8	8083.2	8301.3	8016.7	7640.7	7184.3	6812.0	6774.4
65°	7017.6	7054.0	7484.0	8206.0	8977.0	9447.1	8788.9	7989.2	7210.7	6714.3	6689.2
67.5°	6419.7	6458.5	7037.7	8145.9	9603.8	10567.8	9290.4	7821.2	6764.4	6150.1	6101.2
70°	4965.5	5009.4	5725.2	7170.6	9464.6	10920.1	8933.1	6822.1	5578.5	4915.3	4826.3
72.5°	2640.1	2801.8	3413.5	4921.6	7682.0	9402.0	7324.8	4978.0	3597.8	2940.9	2823.1
75°	964.0	984.1	1325.0	2182.5	4469.1	6447.2	4640.8	2374.3	1365.2	1054.3	1000.4
77.5°	398.6	397.4	436.3	659.4	1623.4	3302.0	1811.4	697.0	435.0	402.4	397.4
80°	235.7	235.7	259.5	274.5	427.5	996.6	477.6	310.9	260.7	238.2	241.9
82.5°	105.3	111.6	164.2	173.0	206.8	273.3	230.7	198.1	170.5	117.8	106.6
85°	57.7	50.1	86.5	90.3	99.0	101.5	109.1	107.8	99.0	57.7	58.9
87.5°	11.3	13.8	25.1	18.8	21.3	18.8	25.1	35.1	36.4	20.1	16.3
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)