

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: P529859

Luminaire Tested: **GALN-SA5A-740-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529859
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-SA5A-740-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 13745 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

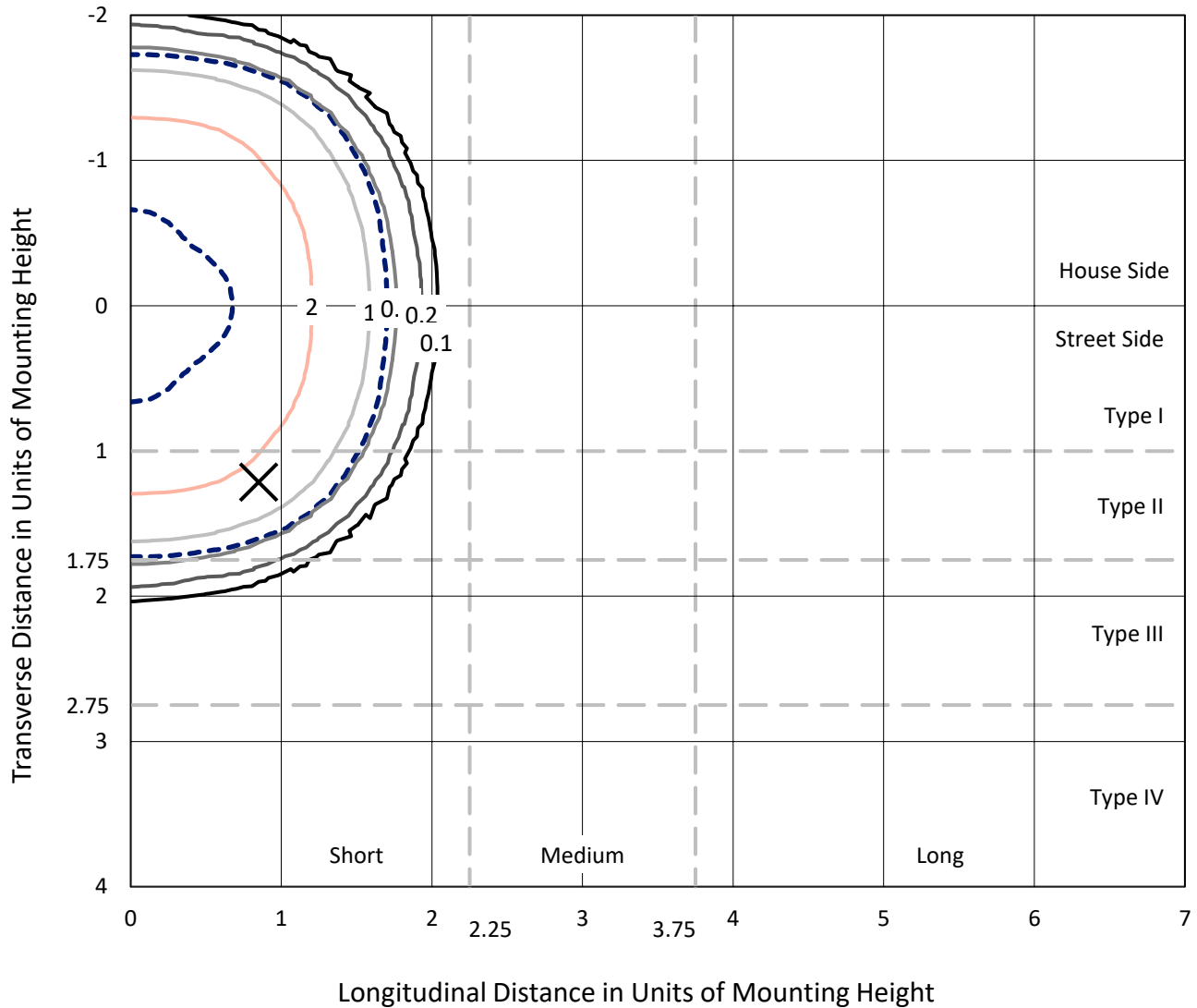
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

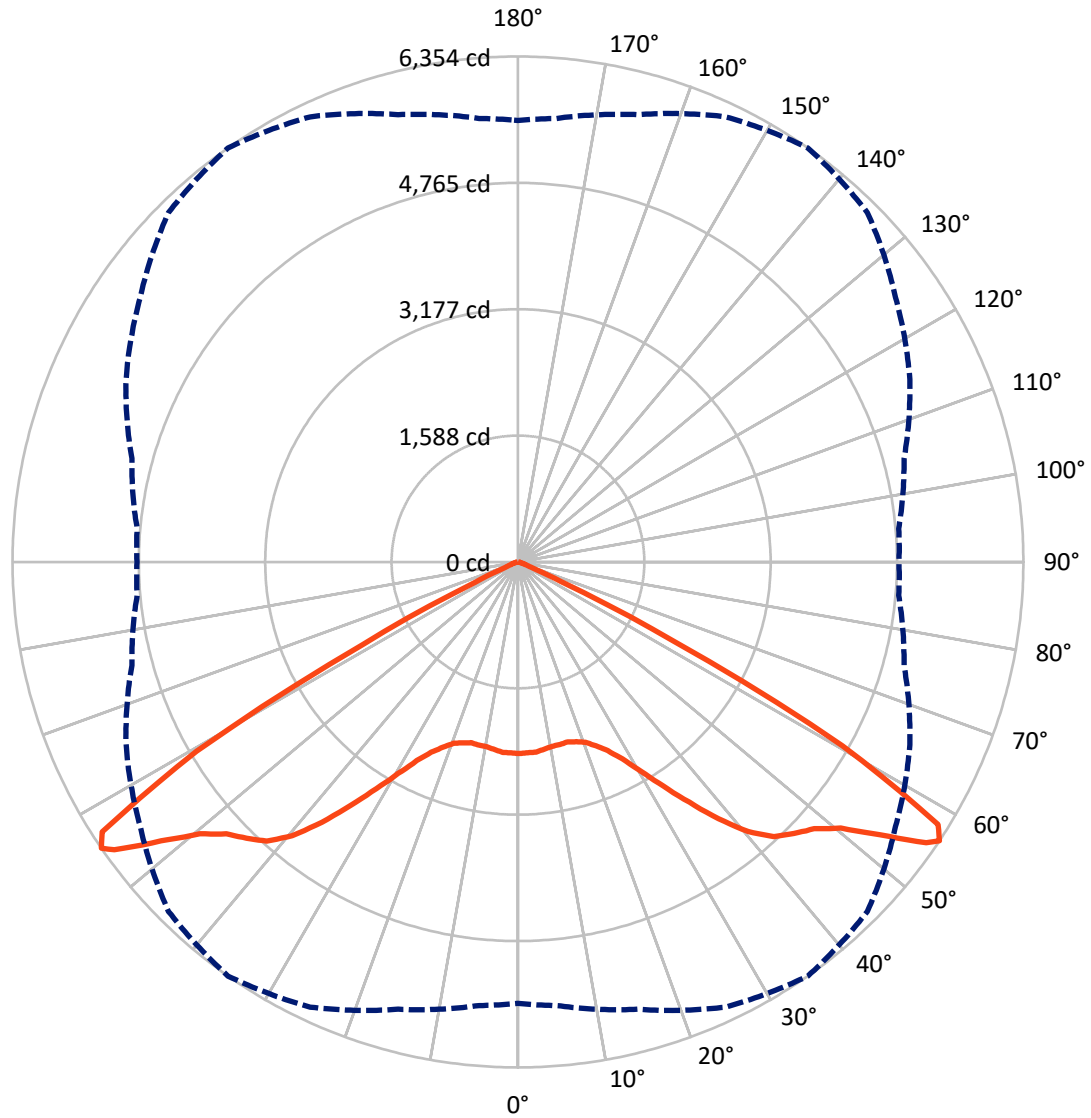
✕ Max cd
 - - - 1/2 Max cd



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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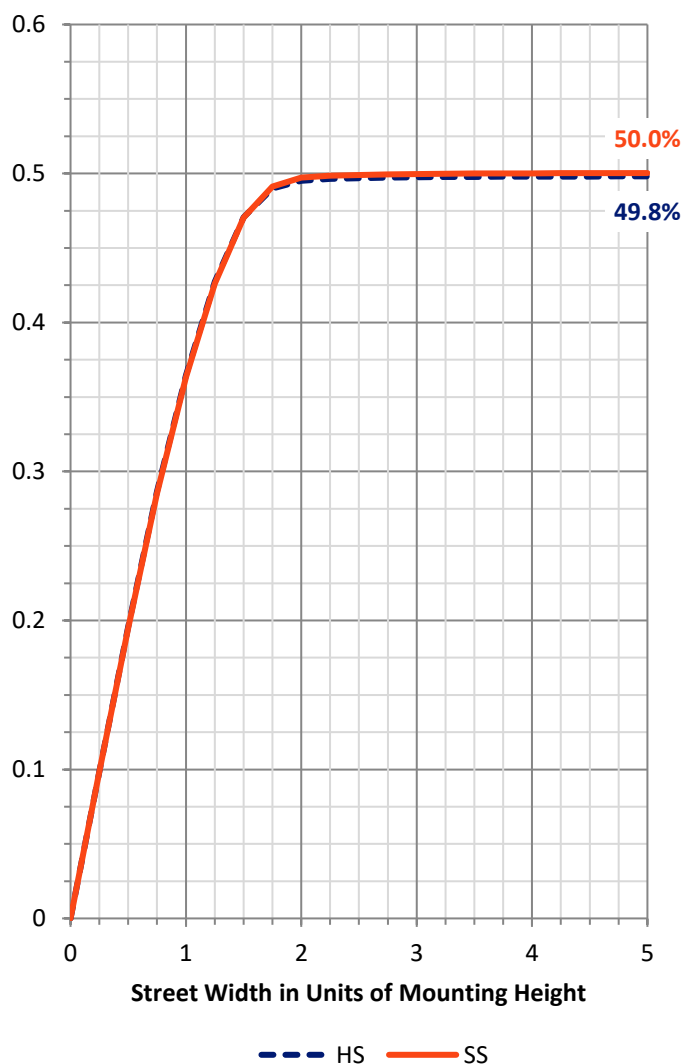
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6872.5	0.0	6872.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6872.5	0.0	6872.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13745.0	0.0	13745.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.4	1.6
10°-20°	660.8	4.8
20°-30°	1196.7	8.7
30°-40°	2219.1	16.1
40°-50°	3642.5	26.5
50°-60°	4692.6	34.1
60°-70°	1034.2	7.5
70°-80°	60.0	0.4
80°-90°	12.6	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°	13745.0	100.0
0°-180°	13745.0	100.0

Coefficient of Utilization



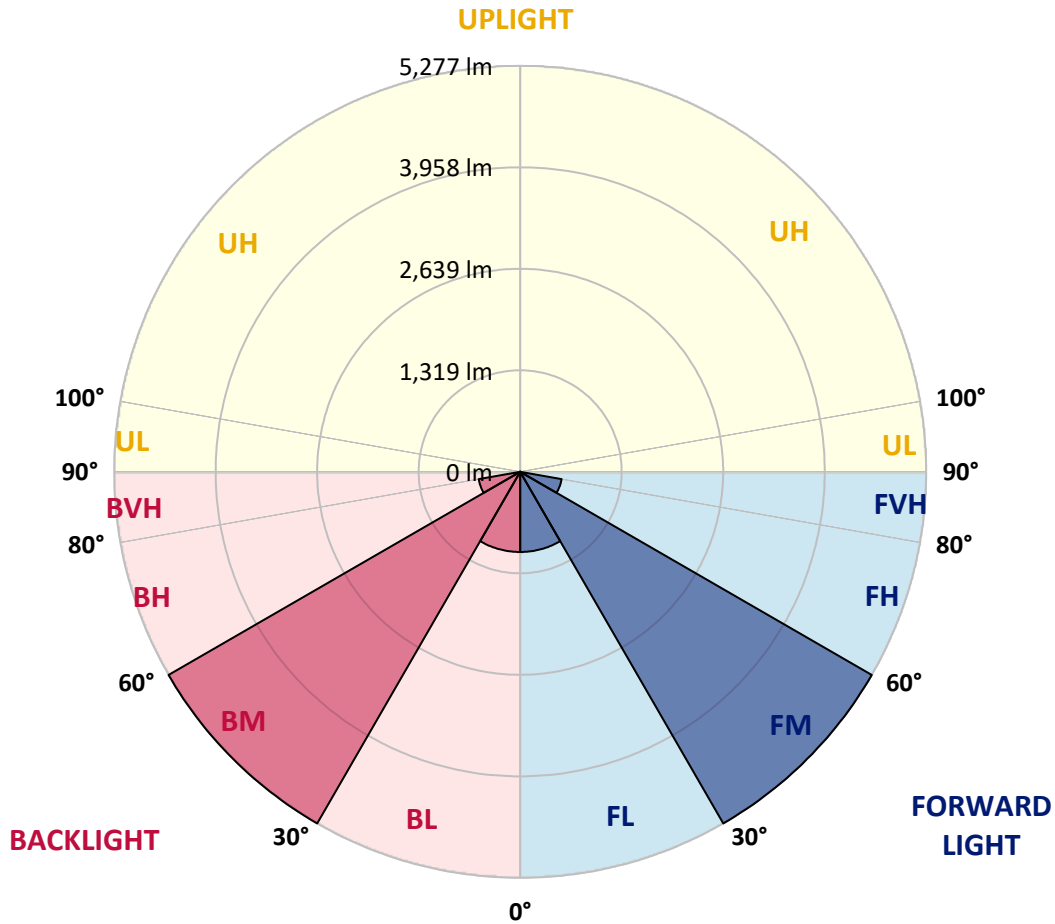
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1041.9	7.6			
FM (30°-60°)	5277.1	38.4			
FH (60°-80°)	547.1	4.0			G0/660
FVH (80°-90°)	6.3	0.0			G0/10
BL (0°-30°)	1041.9	7.6	B3/2500		
BM (30°-60°)	5277.1	38.4	B4/8500		
BH (60°-80°)	547.1	4.0	B2/1000		G0/660
BVH (80°-90°)	6.3	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°	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4
2.5°	2413.4	2413.4	2415.9	2418.4	2400.9	2393.5	2396.0	2391.0	2388.5	2396.0	2396.0
5°	2405.9	2405.9	2398.5	2400.9	2400.9	2378.5	2378.5	2383.5	2383.5	2368.6	2363.6
7.5°	2386.0	2381.0	2371.1	2383.5	2376.0	2376.0	2358.6	2346.2	2341.2	2351.1	2341.2
10°	2343.7	2346.2	2356.1	2361.1	2356.1	2371.1	2341.2	2323.7	2306.3	2298.8	2298.8
12.5°	2323.7	2338.7	2323.7	2336.2	2353.6	2341.2	2323.7	2311.3	2286.4	2276.4	2276.4
15°	2321.2	2331.2	2336.2	2353.6	2346.2	2351.1	2316.3	2301.3	2264.0	2246.5	2239.1
17.5°	2318.8	2331.2	2338.7	2371.1	2376.0	2378.5	2351.1	2306.3	2273.9	2256.5	2239.1
20°	2346.2	2351.1	2366.1	2398.5	2418.4	2453.3	2403.4	2356.1	2286.4	2266.5	2259.0
22.5°	2381.0	2405.9	2420.9	2455.7	2508.0	2537.9	2473.2	2413.4	2341.2	2316.3	2286.4
25°	2493.1	2488.1	2513.0	2585.3	2627.6	2650.0	2597.7	2510.5	2415.9	2386.0	2391.0
27.5°	2632.6	2637.6	2660.0	2739.7	2801.9	2836.8	2774.5	2660.0	2567.8	2518.0	2513.0
30°	2814.4	2809.4	2834.3	2941.4	3053.5	3105.8	2996.2	2861.7	2772.0	2707.3	2722.2
32.5°	3006.2	3008.7	3078.4	3175.5	3357.3	3459.5	3282.6	3118.2	2983.8	2938.9	2916.5
35°	3290.1	3302.5	3357.3	3506.8	3708.5	3840.5	3646.3	3449.5	3295.1	3212.9	3222.8
37.5°	3641.3	3628.8	3721.0	3882.9	4094.6	4191.7	4027.3	3803.2	3646.3	3591.5	3626.3
40°	4014.9	4027.3	4074.6	4221.6	4458.2	4522.9	4278.9	4156.8	4019.8	3992.4	4034.8
42.5°	4388.5	4381.0	4415.9	4547.9	4719.7	4674.9	4530.4	4458.2	4361.1	4306.3	4363.5
45°	4662.4	4650.0	4714.7	4804.4	4866.7	4782.0	4717.2	4692.3	4642.5	4582.7	4635.0
47.5°	4928.9	4919.0	4981.2	5006.1	5011.1	4899.0	4911.5	4956.3	4831.8	4707.3	4767.0
50°	5155.6	5138.1	5215.3	5270.1	5257.7	5078.4	5123.2	5078.4	4884.1	4737.1	4714.7
52.5°	5534.1	5541.6	5623.8	5723.4	5693.5	5544.1	5479.3	5275.1	5026.1	4894.0	4816.8
55°	5773.2	5735.9	5877.8	6194.1	6229.0	6074.6	5788.2	5486.8	5113.2	4951.3	4931.4
56°	5549.1	5596.4	5820.6	6174.2	6353.5	6211.6	5795.6	5434.5	5023.6	4804.4	4789.4
57.5°	4978.7	4953.8	5257.7	5740.9	6229.0	6169.2	5591.4	5060.9	4582.7	4336.2	4306.3
60°	3098.3	3170.5	3437.0	4034.8	4687.3	4717.2	4144.4	3688.6	3130.7	2911.5	2963.8
62.5°	1212.9	1150.7	1317.5	1763.4	2211.7	2311.3	2094.6	1740.9	1429.6	1212.9	1198.0
65°	281.4	274.0	308.8	425.9	595.3	689.9	655.0	470.7	346.2	328.8	303.9
67.5°	159.4	159.4	151.9	151.9	166.9	176.8	169.4	166.9	174.3	181.8	179.3
70°	112.1	109.6	104.6	107.1	102.1	102.1	109.6	122.0	132.0	132.0	134.5
72.5°	67.2	67.2	67.2	74.7	74.7	74.7	82.2	92.2	94.6	92.2	89.7
75°	29.9	29.9	34.9	42.3	47.3	49.8	57.3	62.3	67.2	62.3	57.3
77.5°	7.5	7.5	12.5	17.4	22.4	27.4	37.4	44.8	47.3	44.8	37.4
80°	2.5	2.5	5.0	12.5	22.4	27.4	37.4	39.8	42.3	37.4	29.9
82.5°	2.5	2.5	5.0	12.5	17.4	22.4	29.9	34.9	37.4	32.4	29.9
85°	0.0	2.5	5.0	10.0	14.9	19.9	19.9	14.9	12.5	7.5	10.0
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)