

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: P529861

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529861
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
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-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15733 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

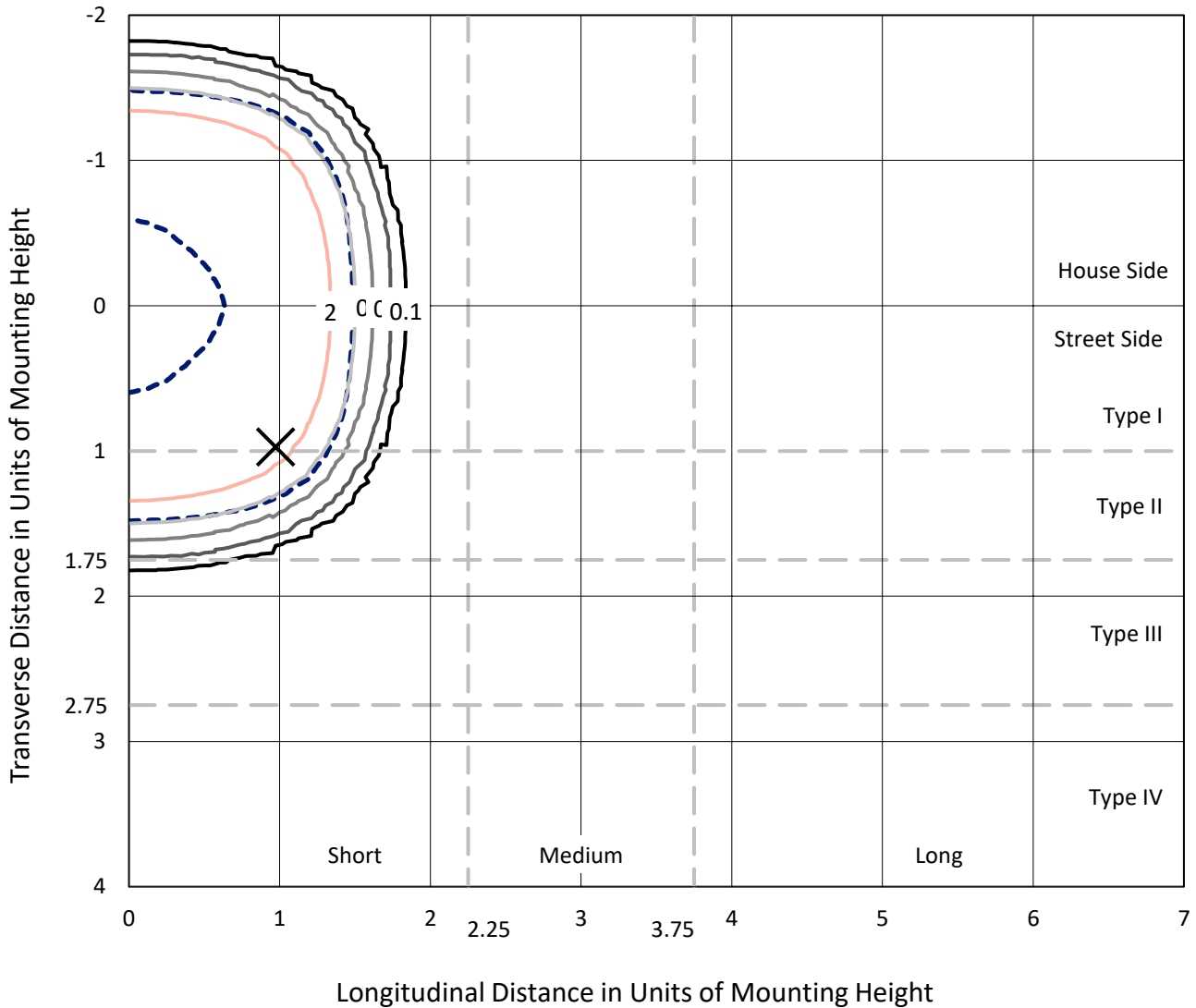
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

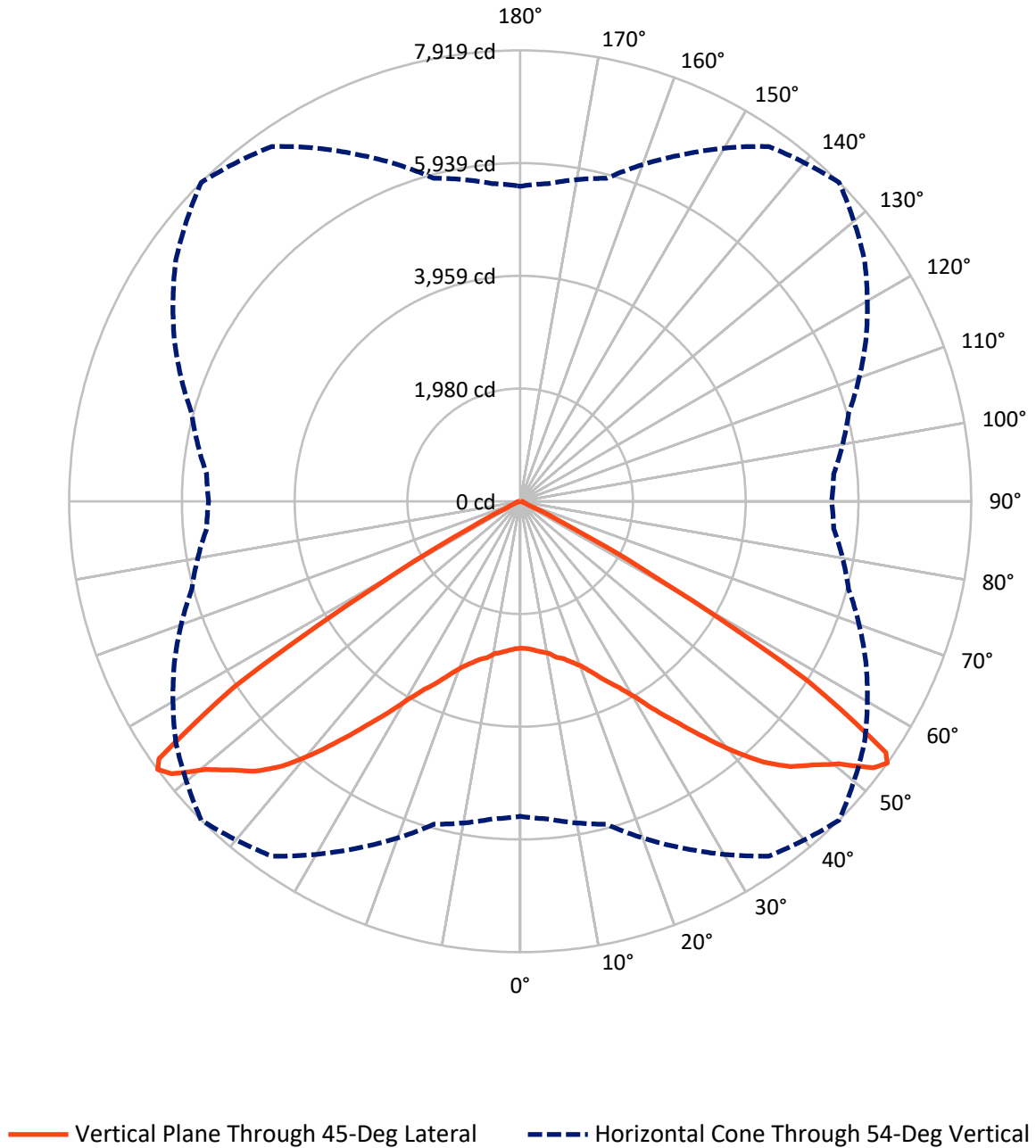
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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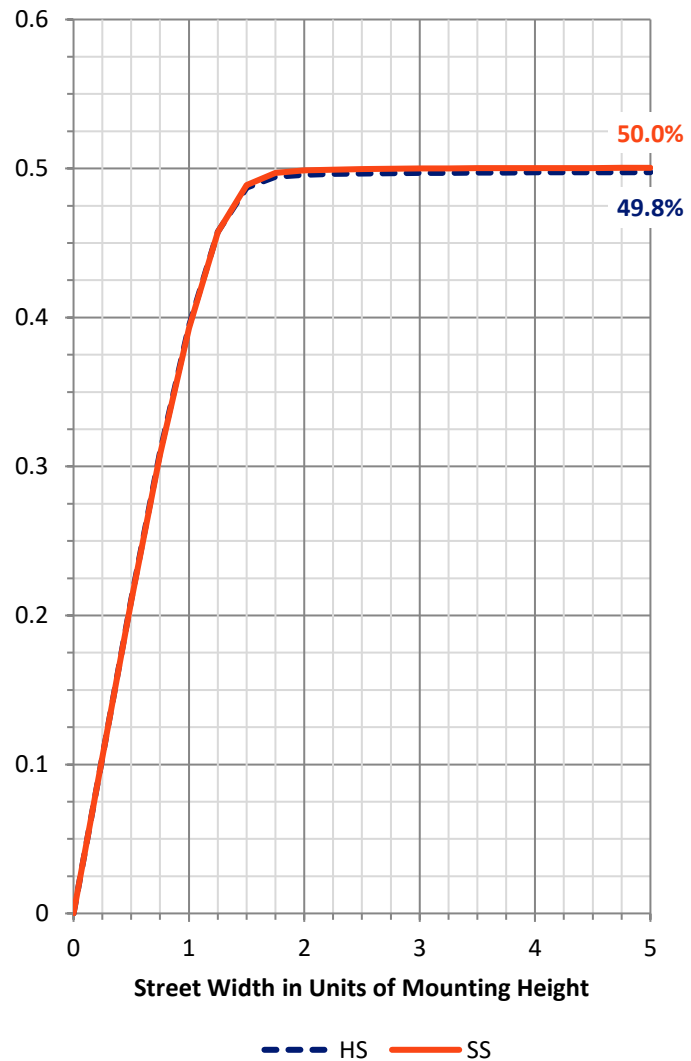
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7866.5	0.0	7866.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7866.5	0.0	7866.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15733.0	0.0	15733.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.5	1.6
10°-20°	817.7	5.2
20°-30°	1602.6	10.2
30°-40°	2881.8	18.3
40°-50°	4933.1	31.4
50°-60°	4773.2	30.3
60°-70°	408.6	2.6
70°-80°	48.4	0.3
80°-90°	15.2	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°	15733.0	100.0
0°-180°	15733.0	100.0



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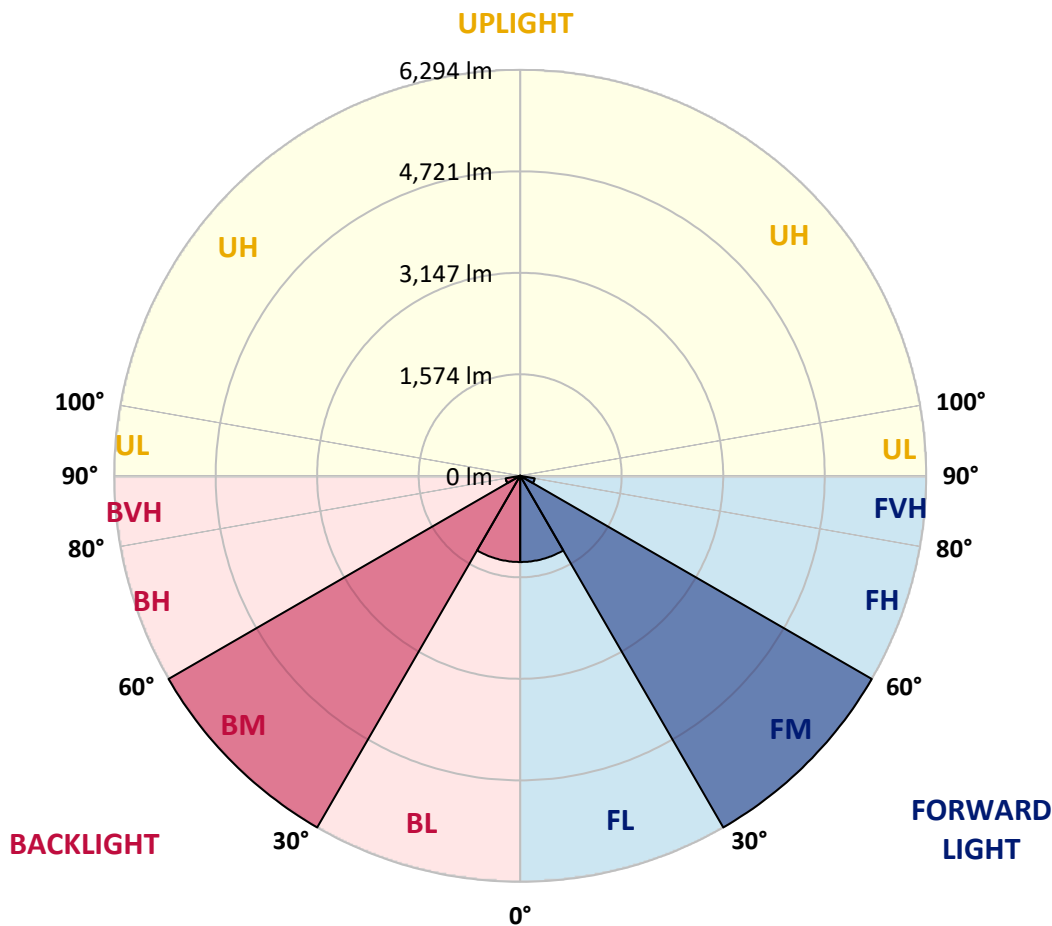
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1336.4	8.5			
FM (30°-60°)	6294.0	40.0			
FH (60°-80°)	228.5	1.5			G0/660
FVH (80°-90°)	7.6	0.0			G0/10
BL (0°-30°)	1336.4	8.5	B3/2500		
BM (30°-60°)	6294.0	40.0	B4/8500		
BH (60°-80°)	228.5	1.5	B1/500		G0/660
BVH (80°-90°)	7.6	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°	2579.7	2579.7	2579.7	2579.7	2579.7	2579.7	2579.7	2579.7	2579.7	2579.7	2579.7
2.5°	2592.2	2607.1	2597.2	2604.6	2604.6	2592.2	2599.7	2569.8	2589.7	2574.7	2577.2
5°	2632.1	2629.6	2629.6	2632.1	2622.1	2627.1	2617.1	2607.1	2599.7	2589.7	2619.6
7.5°	2681.9	2681.9	2664.5	2669.5	2664.5	2671.9	2652.0	2632.1	2624.6	2617.1	2612.1
10°	2729.3	2724.3	2716.8	2739.2	2721.8	2711.8	2701.9	2689.4	2662.0	2652.0	2642.0
12.5°	2799.1	2796.6	2786.6	2809.0	2799.1	2809.0	2771.6	2739.2	2734.3	2701.9	2719.3
15°	2881.3	2903.7	2886.3	2886.3	2881.3	2868.9	2853.9	2838.9	2794.1	2781.6	2784.1
17.5°	2988.5	2981.0	2983.5	2983.5	3008.4	2976.0	2946.1	2908.7	2886.3	2878.8	2853.9
20°	3090.7	3100.7	3098.2	3115.6	3130.6	3095.7	3063.3	3058.3	2996.0	3005.9	2971.0
22.5°	3270.1	3262.7	3275.1	3287.6	3277.6	3272.6	3242.7	3205.3	3150.5	3125.6	3120.6
25°	3459.6	3447.1	3424.7	3454.6	3469.5	3492.0	3434.6	3414.7	3330.0	3292.6	3295.1
27.5°	3621.6	3639.0	3664.0	3676.4	3713.8	3706.3	3666.4	3601.6	3536.8	3494.5	3467.0
30°	3843.4	3853.4	3895.8	3913.2	3978.0	3995.5	3933.1	3858.4	3743.7	3688.9	3656.5
32.5°	4047.8	4117.6	4115.1	4202.3	4307.0	4379.3	4267.1	4152.5	4037.8	3973.0	3915.7
35°	4379.3	4366.8	4439.1	4531.3	4700.8	4783.1	4660.9	4528.8	4354.4	4249.7	4204.8
37.5°	4688.4	4693.3	4790.6	4937.6	5132.0	5259.1	5152.0	4935.1	4755.7	4621.1	4558.8
40°	5137.0	5147.0	5246.7	5413.7	5633.0	5770.1	5645.5	5426.1	5186.9	5082.2	5082.2
42.5°	5662.9	5705.3	5770.1	5914.7	6111.6	6263.6	6151.5	5979.5	5737.7	5603.1	5623.0
45°	6203.8	6223.7	6266.1	6480.5	6572.7	6647.5	6542.8	6463.0	6301.0	6136.5	6109.1
47.5°	6709.8	6717.2	6841.9	6909.2	6981.5	6919.1	6986.4	6881.8	6699.8	6540.3	6507.9
50°	6934.1	6921.6	7098.6	7303.0	7357.8	7248.1	7190.8	7121.0	6844.4	6652.4	6567.7
52.5°	6281.1	6353.3	6682.4	7250.6	7679.3	7771.6	7437.6	7116.0	6600.1	6226.2	6168.9
54°	5533.3	5600.6	5872.3	6714.8	7607.1	7918.6	7380.2	6697.3	5969.5	5525.8	5468.5
55°	4793.0	4718.3	5211.8	6071.7	7268.1	7789.0	7153.4	6156.4	5323.9	4917.7	4837.9
57.5°	2594.7	2607.1	3023.4	3835.9	5107.1	5972.0	5274.1	4164.9	3145.5	2689.4	2649.5
60°	822.5	842.5	1024.4	1550.3	2440.1	2913.7	2497.5	1672.5	1156.5	927.2	889.8
62.5°	256.7	266.7	291.6	433.7	668.0	954.6	747.7	448.6	334.0	306.6	311.6
65°	157.0	157.0	159.5	169.5	199.4	231.8	224.3	196.9	189.4	184.4	182.0
67.5°	102.2	99.7	104.7	112.2	117.1	119.6	127.1	134.6	132.1	127.1	127.1
70°	62.3	59.8	64.8	74.8	77.3	82.3	89.7	99.7	97.2	92.2	94.7
72.5°	34.9	34.9	37.4	44.9	52.3	57.3	64.8	72.3	74.8	72.3	72.3
75°	12.5	15.0	19.9	27.4	32.4	39.9	47.4	54.8	62.3	57.3	54.8
77.5°	5.0	5.0	10.0	17.4	24.9	32.4	44.9	52.3	57.3	52.3	47.4
80°	2.5	2.5	7.5	15.0	22.4	29.9	37.4	44.9	47.4	42.4	37.4
82.5°	2.5	2.5	7.5	15.0	22.4	27.4	39.9	44.9	49.8	44.9	37.4
85°	0.0	2.5	7.5	15.0	19.9	22.4	22.4	15.0	12.5	7.5	7.5
87.5°	0.0	0.0	2.5	0.0	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)