

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: P648026

Luminaire Tested: **GALN-SA7A-835-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648026
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-SA7A-835-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 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: 17133.6 lumens
Efficiency: N/A
Efficacy: 79.7 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

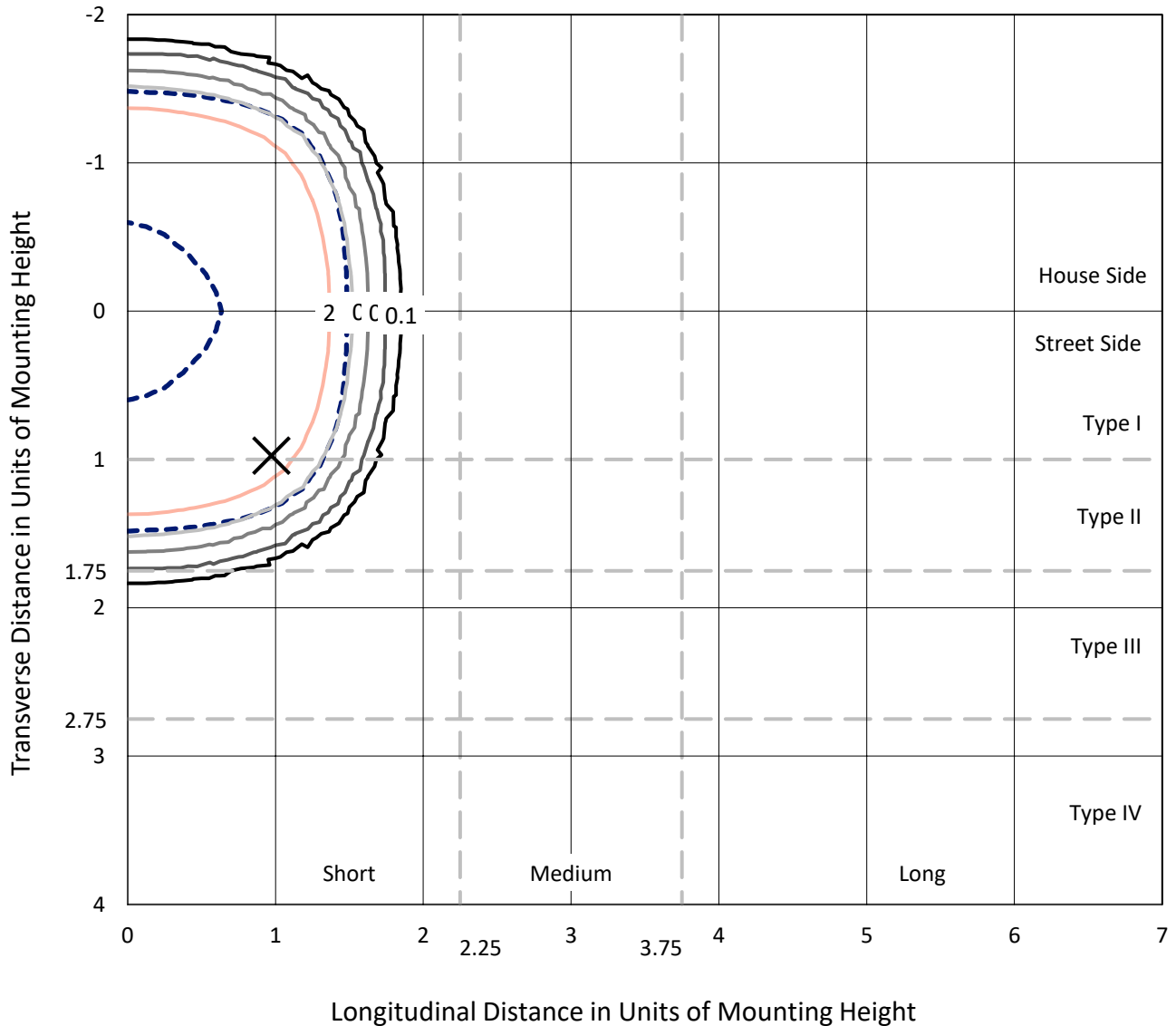
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

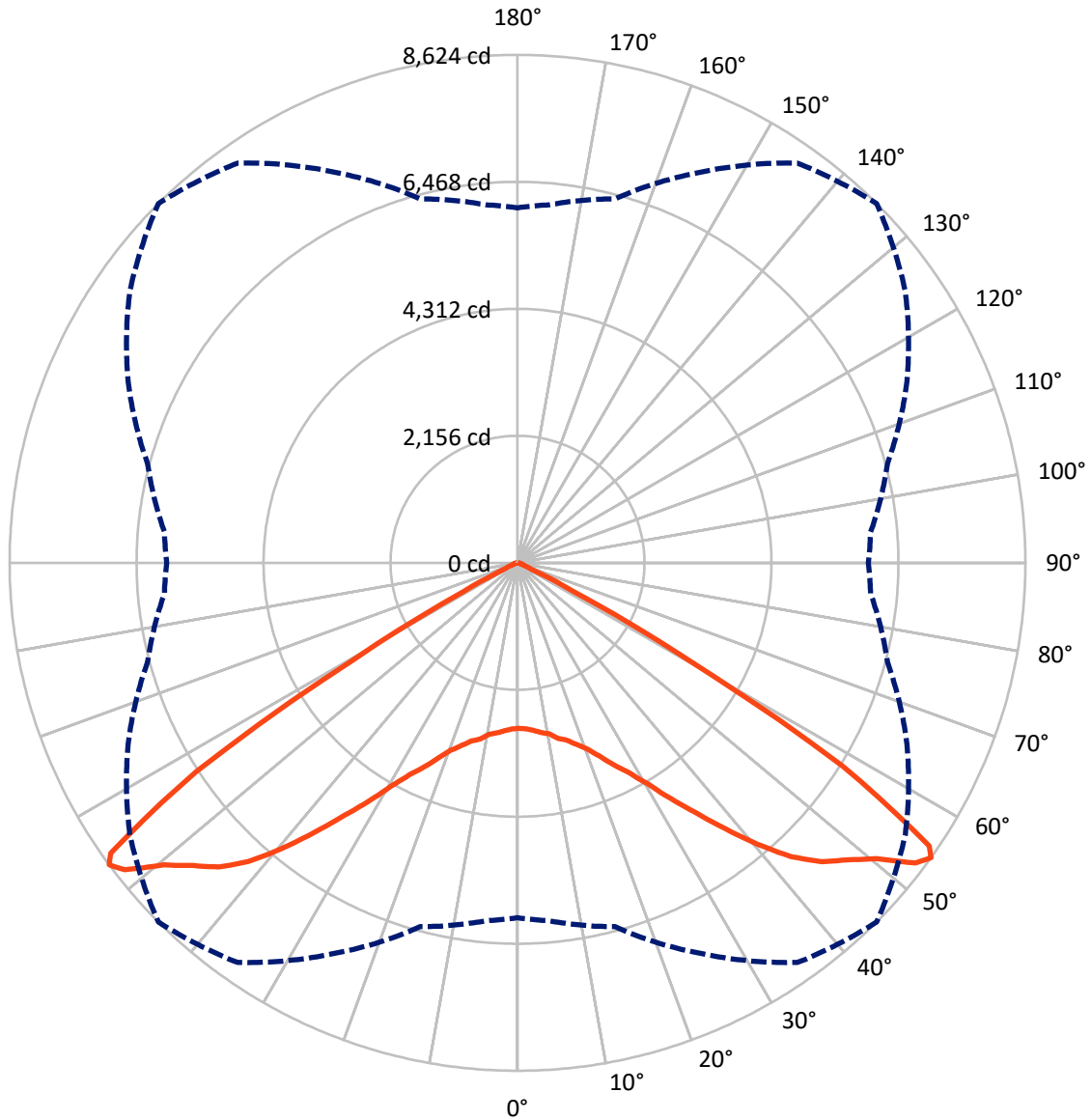
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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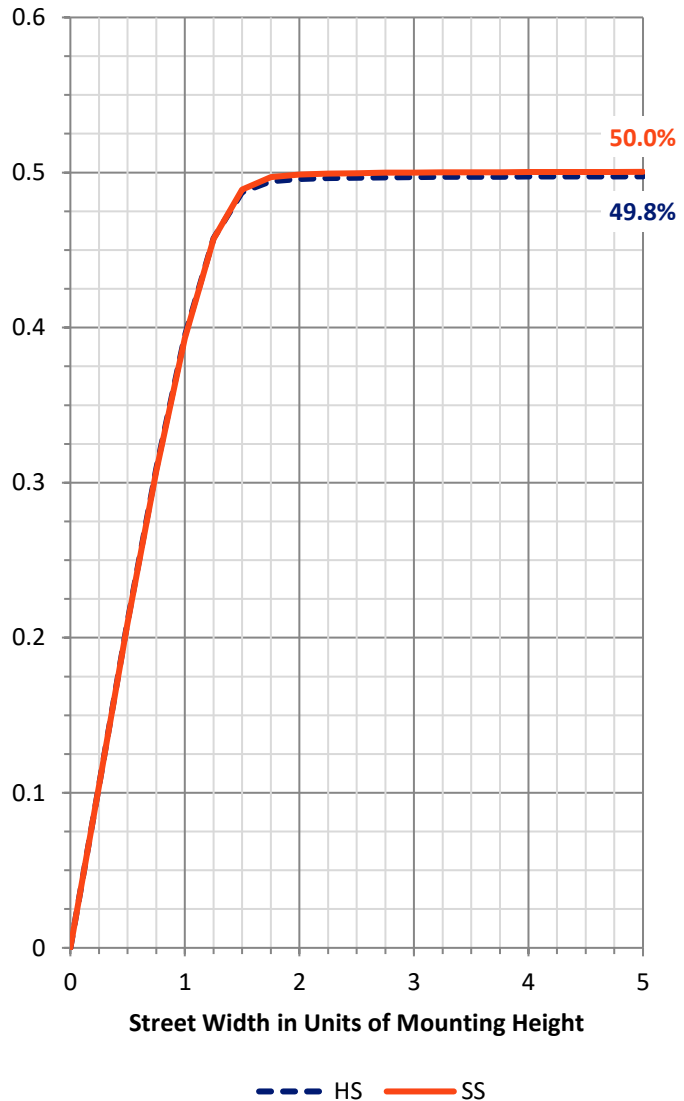
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8566.8	0.0	8566.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8566.8	0.0	8566.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	17133.6	0.0	17133.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.0	1.6
10°-20°	890.5	5.2
20°-30°	1745.3	10.2
30°-40°	3138.3	18.3
40°-50°	5372.2	31.4
50°-60°	5198.1	30.3
60°-70°	445.0	2.6
70°-80°	52.7	0.3
80°-90°	16.5	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°	17133.6	100.0
0°-180°	17133.6	100.0

Coefficient of Utilization



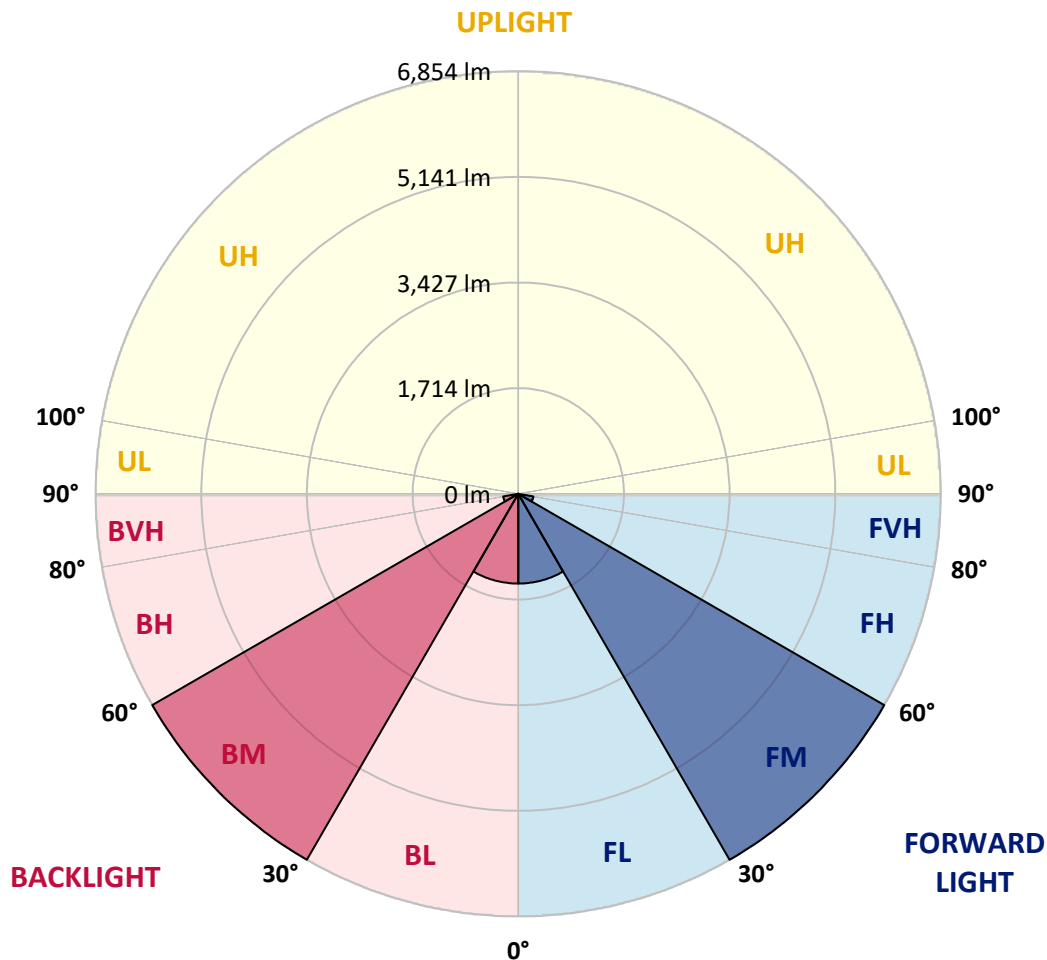
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1455.3	8.5			
FM (30°-60°)	6854.3	40.0			
FH (60°-80°)	248.9	1.5			G0/660
FVH (80°-90°)	8.3	0.0			G0/10
BL (0°-30°)	1455.3	8.5	B3/2500		
BM (30°-60°)	6854.3	40.0	B4/8500		
BH (60°-80°)	248.9	1.5	B1/500		G0/660
BVH (80°-90°)	8.3	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°	2809.4	2809.4	2809.4	2809.4	2809.4	2809.4	2809.4	2809.4	2809.4	2809.4	2809.4
2.5°	2822.9	2839.2	2828.4	2836.5	2836.5	2822.9	2831.1	2798.5	2820.2	2803.9	2806.7
5°	2866.4	2863.7	2863.7	2866.4	2855.5	2860.9	2850.1	2839.2	2831.1	2820.2	2852.8
7.5°	2920.7	2920.7	2901.6	2907.1	2901.6	2909.8	2888.1	2866.4	2858.3	2850.1	2844.6
10°	2972.3	2966.8	2958.6	2983.1	2964.1	2953.2	2942.4	2928.8	2899.0	2888.1	2877.2
12.5°	3048.2	3045.6	3034.7	3059.1	3048.2	3059.1	3018.4	2983.1	2977.7	2942.4	2961.4
15°	3137.8	3162.2	3143.3	3143.3	3137.8	3124.2	3108.0	3091.7	3042.8	3029.3	3031.9
17.5°	3254.5	3246.4	3249.1	3249.1	3276.2	3241.0	3208.4	3167.7	3143.3	3135.1	3108.0
20°	3365.8	3376.7	3373.9	3393.0	3409.3	3371.3	3336.0	3330.6	3262.7	3273.6	3235.5
22.5°	3561.2	3553.1	3566.7	3580.3	3569.4	3564.0	3531.4	3490.7	3430.9	3403.9	3398.4
25°	3767.6	3754.0	3729.6	3762.2	3778.4	3802.9	3740.4	3718.7	3626.4	3585.7	3588.4
27.5°	3944.0	3963.0	3990.2	4003.7	4044.4	4036.3	3992.8	3922.3	3851.7	3805.5	3775.7
30°	4185.5	4196.4	4242.5	4261.6	4332.1	4351.1	4283.2	4201.8	4077.0	4017.3	3982.0
32.5°	4408.1	4484.2	4481.4	4576.4	4690.4	4769.2	4647.0	4522.1	4397.2	4326.7	4264.3
35°	4769.2	4755.6	4834.3	4934.7	5119.3	5208.9	5075.9	4932.0	4742.0	4628.0	4579.1
37.5°	5105.7	5111.2	5217.1	5377.2	5588.9	5727.3	5610.6	5374.4	5179.0	5032.4	4964.6
40°	5594.3	5605.2	5713.8	5895.6	6134.5	6283.8	6148.0	5909.2	5648.6	5534.6	5534.6
42.5°	6167.1	6213.2	6283.8	6441.2	6655.7	6821.3	6699.1	6511.8	6248.5	6101.9	6123.6
45°	6756.1	6777.8	6823.9	7057.3	7157.8	7239.2	7125.2	7038.4	6862.0	6682.8	6652.9
47.5°	7307.1	7315.3	7450.9	7524.2	7602.9	7535.1	7608.4	7494.4	7296.2	7122.5	7087.2
50°	7551.4	7537.8	7730.6	7953.1	8012.8	7893.4	7830.9	7755.0	7453.7	7244.6	7152.4
52.5°	6840.2	6919.0	7277.2	7896.1	8363.0	8463.4	8099.7	7749.5	7187.6	6780.5	6718.1
54°	6025.9	6099.2	6395.1	7312.5	8284.3	8623.6	8037.3	7293.5	6500.9	6017.7	5955.3
55°	5219.7	5138.3	5675.7	6612.2	7915.1	8482.4	7790.2	6704.5	5797.9	5355.5	5268.6
57.5°	2825.7	2839.2	3292.5	4177.4	5561.7	6503.7	5743.6	4535.7	3425.5	2928.8	2885.4
60°	895.8	917.4	1115.6	1688.3	2657.3	3173.1	2719.8	1821.3	1259.5	1009.8	969.0
62.5°	279.6	290.4	317.6	472.3	727.5	1039.6	814.3	488.6	363.7	333.9	339.3
65°	171.0	171.0	173.7	184.6	217.1	252.4	244.3	214.5	206.3	200.8	198.2
67.5°	111.3	108.6	114.0	122.1	127.6	130.3	138.4	146.6	143.8	138.4	138.4
70°	67.9	65.1	70.5	81.4	84.2	89.6	97.7	108.6	105.9	100.5	103.1
72.5°	38.0	38.0	40.7	48.9	57.0	62.4	70.5	78.7	81.4	78.7	78.7
75°	13.5	16.3	21.7	29.8	35.3	43.5	51.6	59.7	67.9	62.4	59.7
77.5°	5.4	5.4	10.9	19.0	27.2	35.3	48.9	57.0	62.4	57.0	51.6
80°	2.7	2.7	8.1	16.3	24.4	32.6	40.7	48.9	51.6	46.1	40.7
82.5°	2.7	2.7	8.1	16.3	24.4	29.8	43.5	48.9	54.3	48.9	40.7
85°	0.0	2.7	8.1	16.3	21.7	24.4	24.4	16.3	13.5	8.1	8.1
87.5°	0.0	0.0	2.7	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)