

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: P455818

Luminaire Tested: **GALN-SA7A-740-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455818
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-740-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33337 lumens
Efficiency: N/A
Efficacy: 155.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

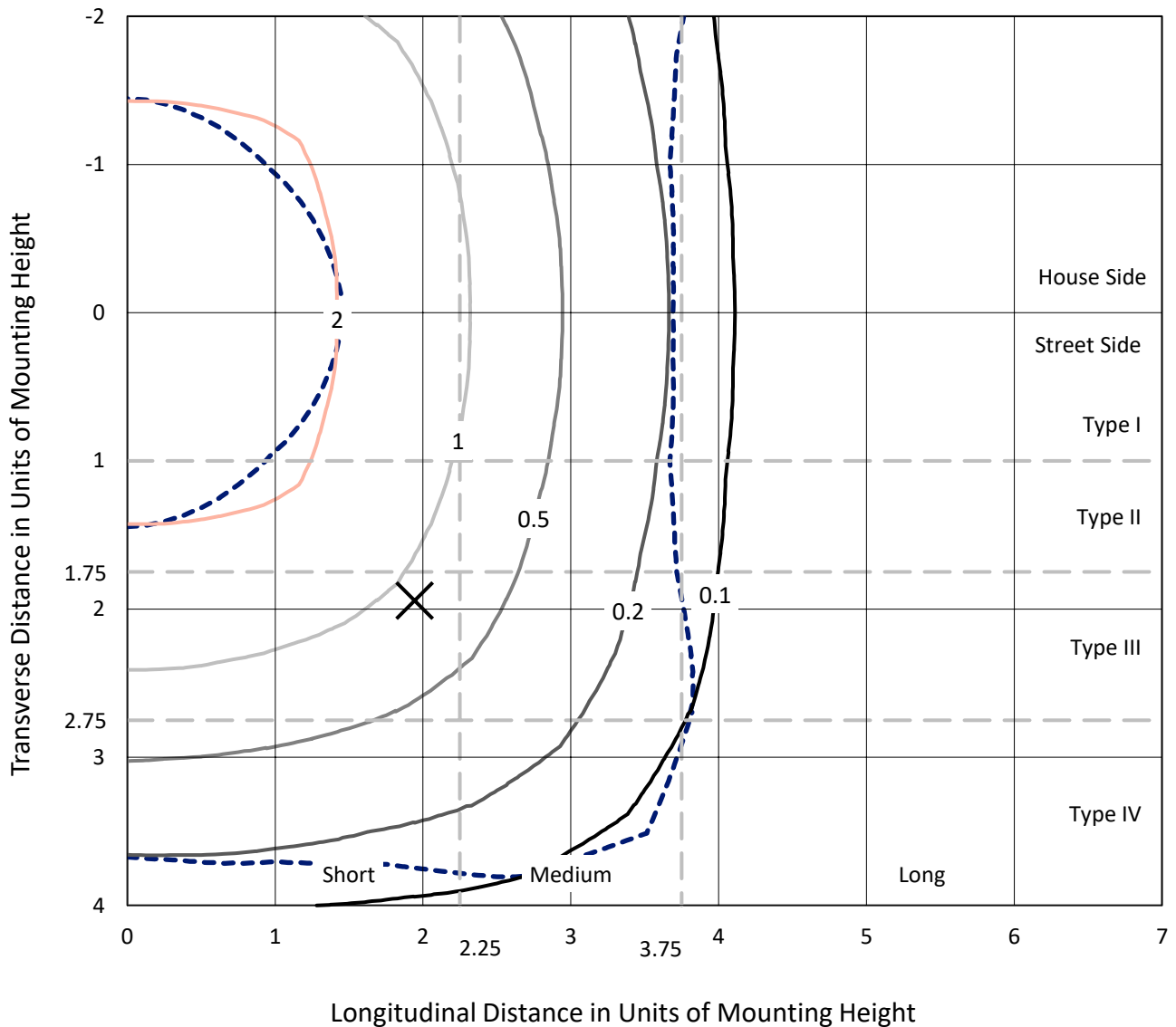
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

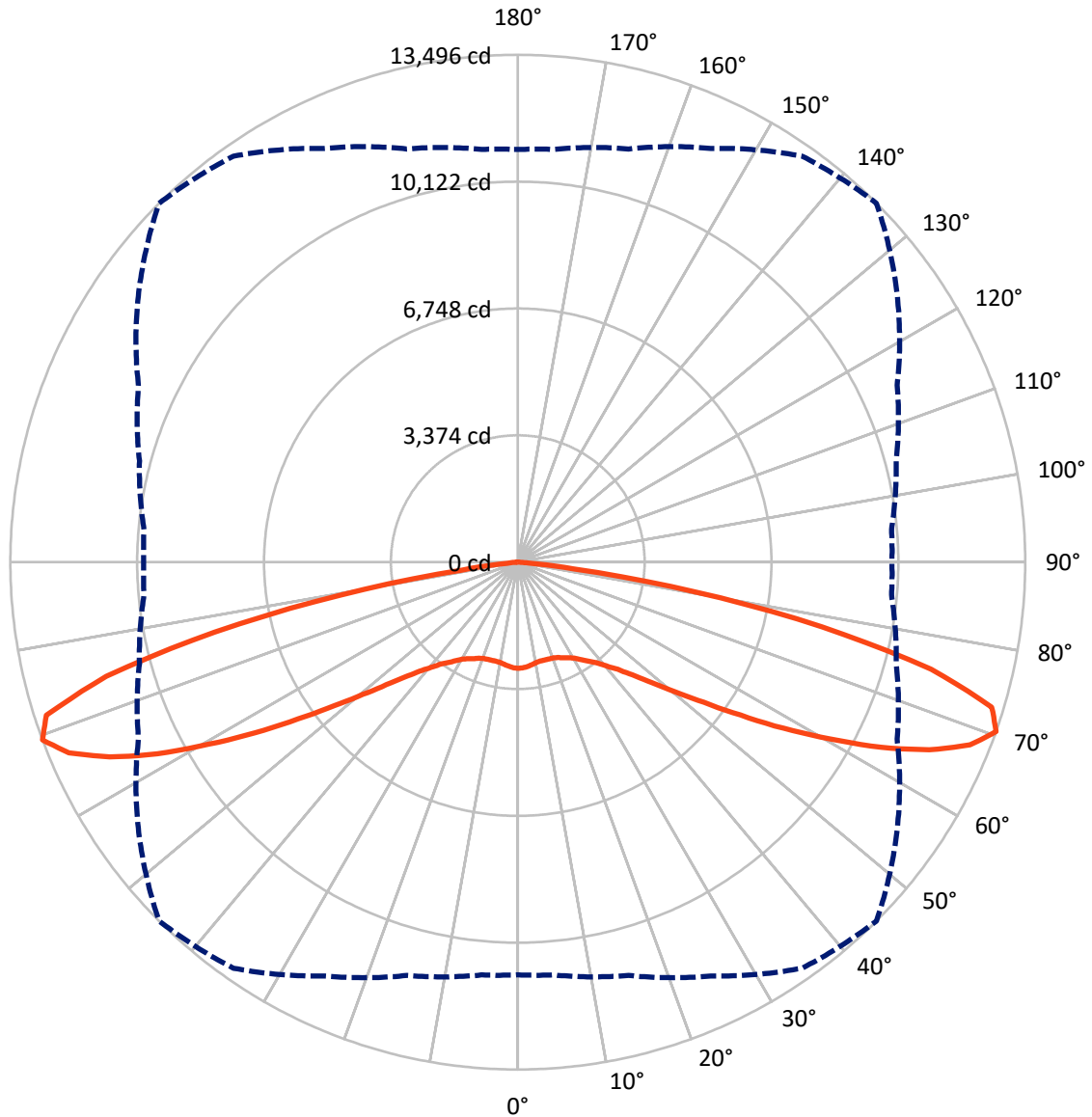
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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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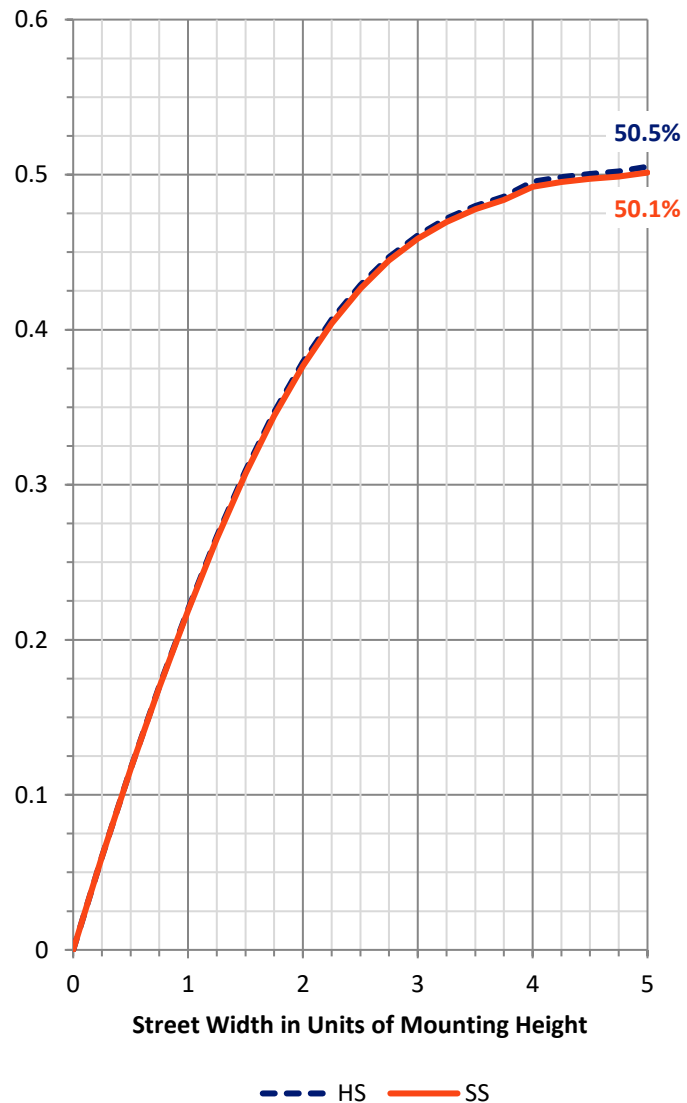
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16668.5	0.0	16668.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16668.5	0.0	16668.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	33337.0	0.0	33337.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.9	0.8
10°-20°	772.7	2.3
20°-30°	1316.5	3.9
30°-40°	2040.6	6.1
40°-50°	3434.6	10.3
50°-60°	6249.1	18.7
60°-70°	10579.7	31.7
70°-80°	8189.1	24.6
80°-90°	490.7	1.5
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°	33337.0	100.0
0°-180°	33337.0	100.0



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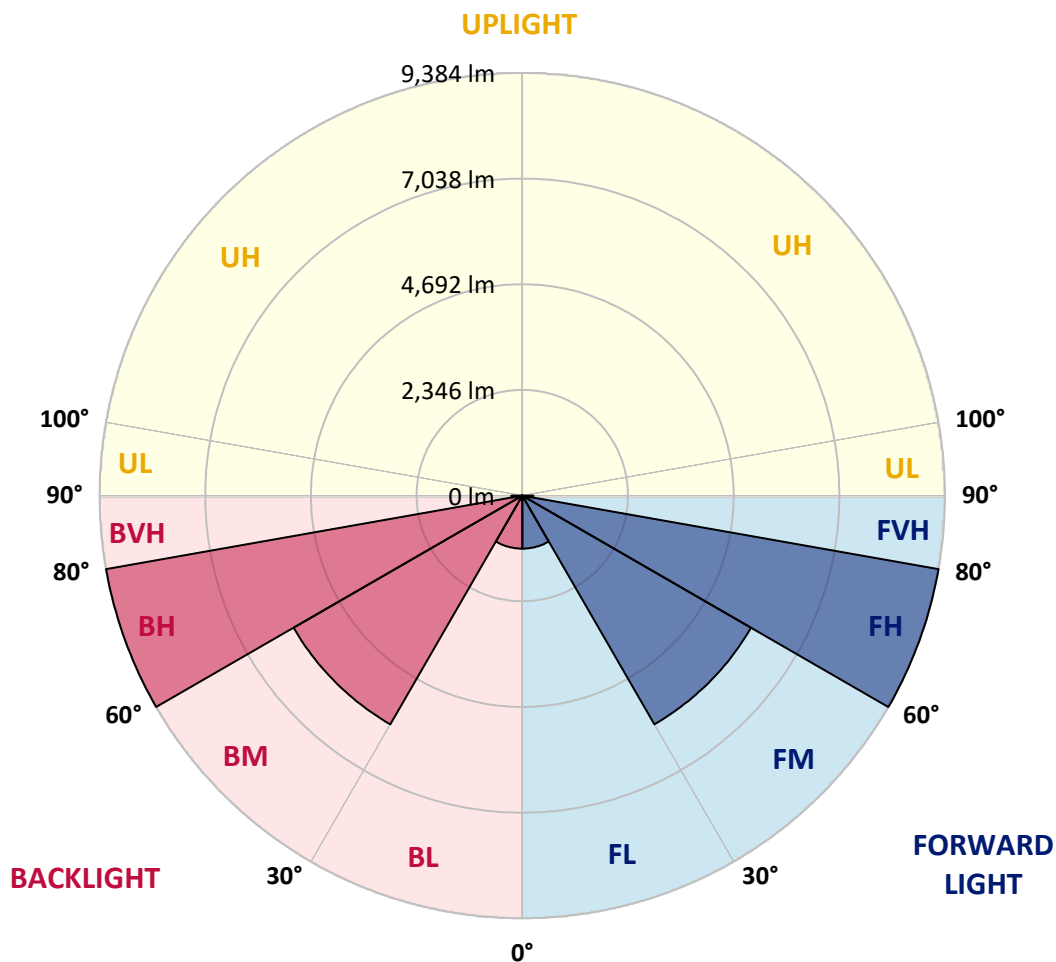
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1176.6	3.5			
FM (30°-60°)	5862.2	17.6			
FH (60°-80°)	9384.4	28.1			G4/12000
FVH (80°-90°)	245.4	0.7			G3/500
BL (0°-30°)	1176.6	3.5	B3/2500		
BM (30°-60°)	5862.2	17.6	B4/8500		
BH (60°-80°)	9384.4	28.1	B5		G4/12000
BVH (80°-90°)	245.4	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2822.4	2822.4	2822.4	2822.4	2822.4	2822.4	2822.4	2822.4	2822.4	2822.4	2822.4
2.5°	2815.3	2817.1	2817.1	2813.6	2811.8	2811.8	2810.1	2810.1	2815.3	2817.1	2818.9
5°	2790.7	2790.7	2790.7	2788.9	2785.4	2785.4	2781.9	2781.9	2783.7	2788.9	2785.4
7.5°	2757.2	2760.8	2760.8	2753.7	2748.4	2748.4	2746.7	2748.4	2750.2	2755.5	2753.7
10°	2746.7	2748.4	2739.6	2727.3	2718.5	2713.2	2715.0	2718.5	2727.3	2730.8	2732.6
12.5°	2753.7	2753.7	2737.9	2720.3	2704.4	2697.4	2695.6	2707.9	2723.8	2734.4	2737.9
15°	2762.5	2759.0	2739.6	2716.7	2700.9	2699.1	2697.4	2706.2	2729.1	2750.2	2752.0
17.5°	2767.8	2766.0	2741.4	2713.2	2704.4	2704.4	2702.7	2709.7	2734.4	2760.8	2762.5
20°	2785.4	2780.1	2752.0	2722.0	2715.0	2718.5	2713.2	2722.0	2748.4	2780.1	2787.2
22.5°	2820.6	2815.3	2787.2	2757.2	2753.7	2753.7	2752.0	2760.8	2788.9	2822.4	2827.7
25°	2862.9	2857.6	2831.2	2810.1	2813.6	2820.6	2817.1	2818.9	2841.8	2869.9	2878.7
27.5°	2919.2	2910.4	2887.5	2869.9	2880.5	2880.5	2880.5	2878.7	2892.8	2919.2	2928.0
30°	2987.9	2984.4	2959.7	2958.0	2966.8	2958.0	2958.0	2959.7	2961.5	2986.1	2994.9
32.5°	3077.7	3070.6	3058.3	3054.8	3079.4	3086.5	3061.8	3039.0	3051.3	3075.9	3081.2
35°	3225.6	3215.0	3197.4	3178.0	3197.4	3230.9	3178.0	3160.4	3192.1	3225.6	3229.1
37.5°	3426.3	3421.0	3392.8	3357.6	3355.9	3391.1	3336.5	3334.7	3394.6	3435.1	3440.4
40°	3678.1	3683.4	3648.1	3614.7	3597.1	3625.3	3583.0	3598.8	3657.0	3702.7	3699.2
42.5°	4032.0	4012.6	3958.0	3926.3	3907.0	3896.4	3885.8	3910.5	3975.6	4024.9	4063.7
45°	4445.7	4438.7	4370.0	4331.3	4289.0	4273.2	4269.7	4313.7	4392.9	4452.8	4458.1
47.5°	4914.1	4898.2	4854.2	4813.7	4797.9	4778.5	4760.9	4794.4	4873.6	4915.8	4928.2
50°	5396.5	5400.0	5400.0	5393.0	5408.8	5412.4	5364.8	5377.1	5421.2	5417.6	5414.1
52.5°	5947.6	5967.0	6058.5	6067.3	6143.0	6194.1	6107.8	6056.8	6040.9	5945.8	5952.9
55°	6595.5	6613.1	6750.5	6887.8	7092.1	7178.3	6997.0	6838.5	6725.8	6581.5	6588.5
57.5°	7403.7	7412.5	7542.8	7806.9	8130.9	8333.3	8014.7	7701.3	7472.4	7335.0	7280.5
60°	8273.5	8282.3	8472.4	8794.6	9298.2	9544.7	9150.3	8637.9	8349.2	8139.7	8153.8
62.5°	9317.6	9352.8	9523.6	9967.3	10578.2	10854.7	10331.7	9646.8	9255.9	8995.4	9005.9
65°	10435.6	10495.5	10682.1	11169.8	11733.2	12030.8	11389.9	10599.4	10113.4	9794.7	9828.2
67.5°	11161.0	11213.8	11483.2	12022.0	12724.5	12971.0	12143.5	11222.6	10615.2	10234.9	10164.5
70°	10976.1	11020.2	11379.3	12143.5	13184.0	13495.7	12323.1	11131.1	10416.2	9977.8	9949.7
72.5°	9689.1	9597.5	10122.2	11219.1	12659.4	13182.3	11757.9	10166.2	9266.5	8815.8	8763.0
75°	6421.2	6620.2	7394.9	8687.2	10710.3	11358.2	10035.9	8162.6	7030.4	6655.4	6597.3
77.5°	2146.3	2299.5	2987.9	4924.6	7301.6	8275.2	7312.1	5338.4	3776.7	3042.5	3056.6
80°	568.7	561.7	727.2	1354.0	3155.2	4792.6	3672.8	1808.2	989.5	716.6	679.6
82.5°	204.2	228.9	294.0	375.0	836.3	1489.5	1051.1	507.1	371.5	274.7	265.9
85°	89.8	88.0	126.8	149.7	209.5	278.2	246.5	214.8	188.4	125.0	116.2
87.5°	19.4	19.4	29.9	22.9	37.0	37.0	45.8	54.6	56.3	37.0	29.9
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)