

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: P529367

Luminaire Tested: **GALN-SA4C-735-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529367
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-SA4C-735-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1050mA 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: 17798 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

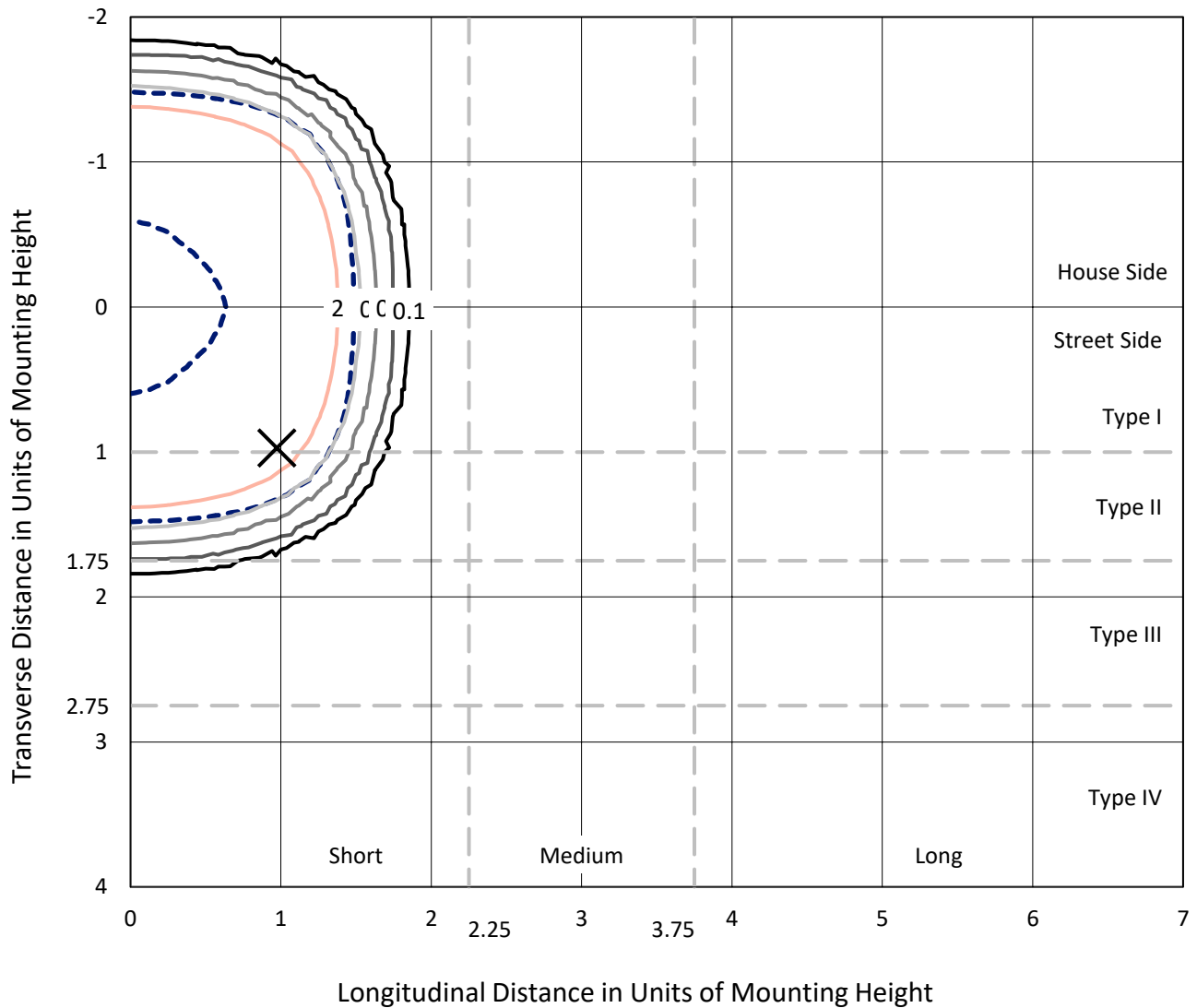
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

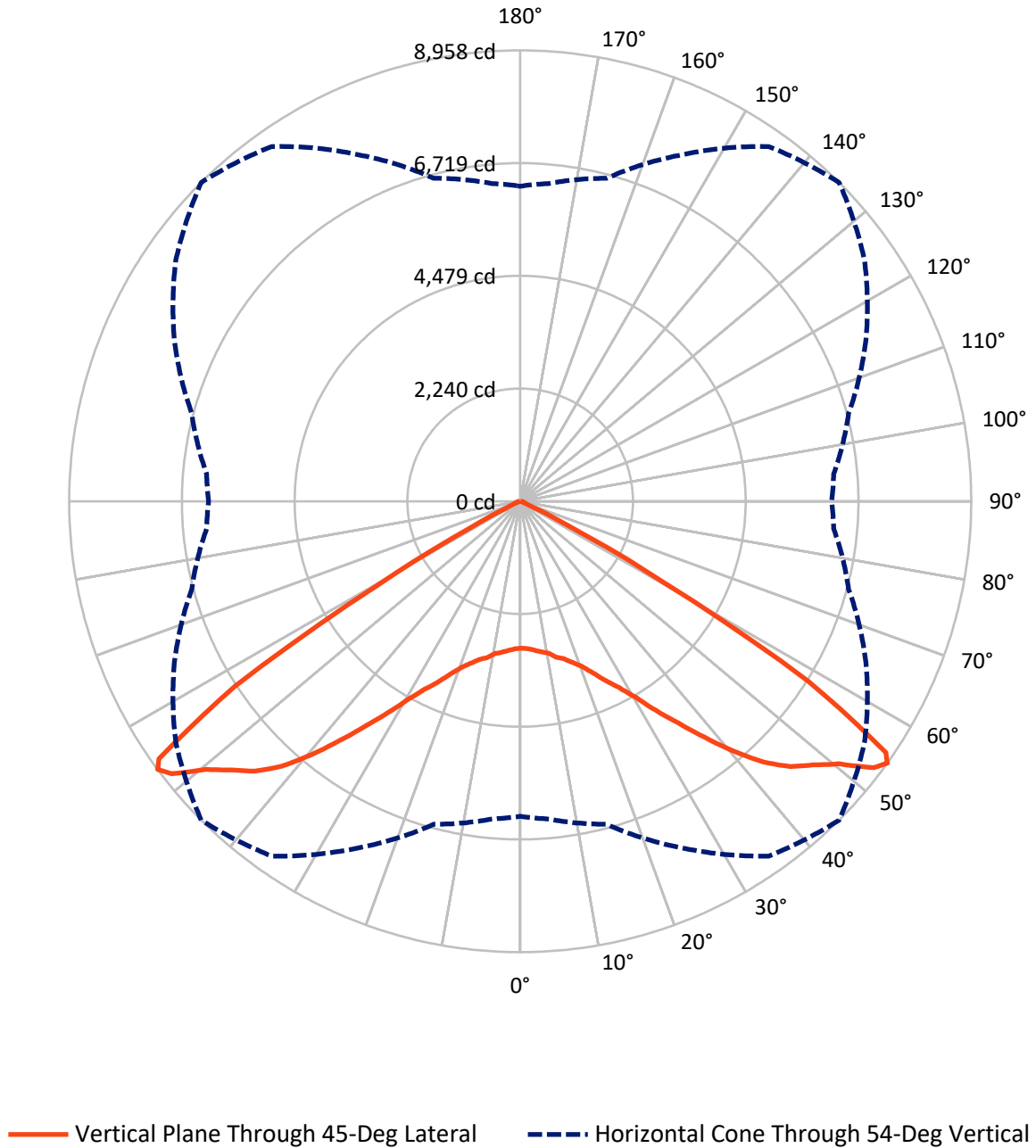
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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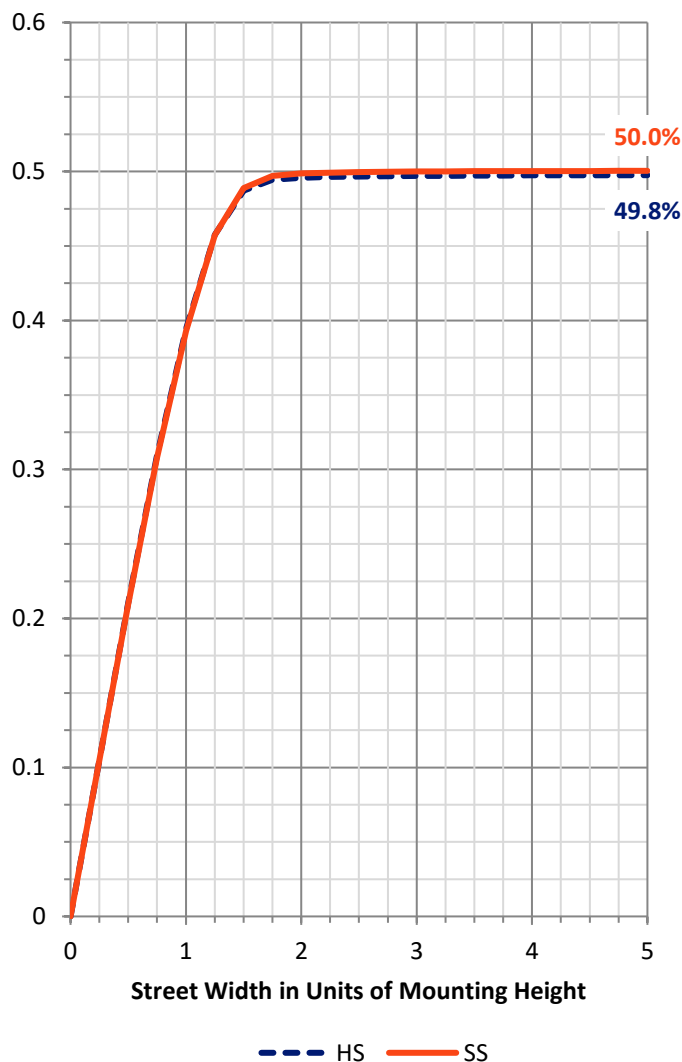
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8899.0	0.0	8899.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8899.0	0.0	8899.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17798.0	0.0	17798.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.6	1.6
10°-20°	925.0	5.2
20°-30°	1812.9	10.2
30°-40°	3260.0	18.3
40°-50°	5580.5	31.4
50°-60°	5399.7	30.3
60°-70°	462.2	2.6
70°-80°	54.8	0.3
80°-90°	17.2	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°	17798.0	100.0
0°-180°	17798.0	100.0

Coefficient of Utilization



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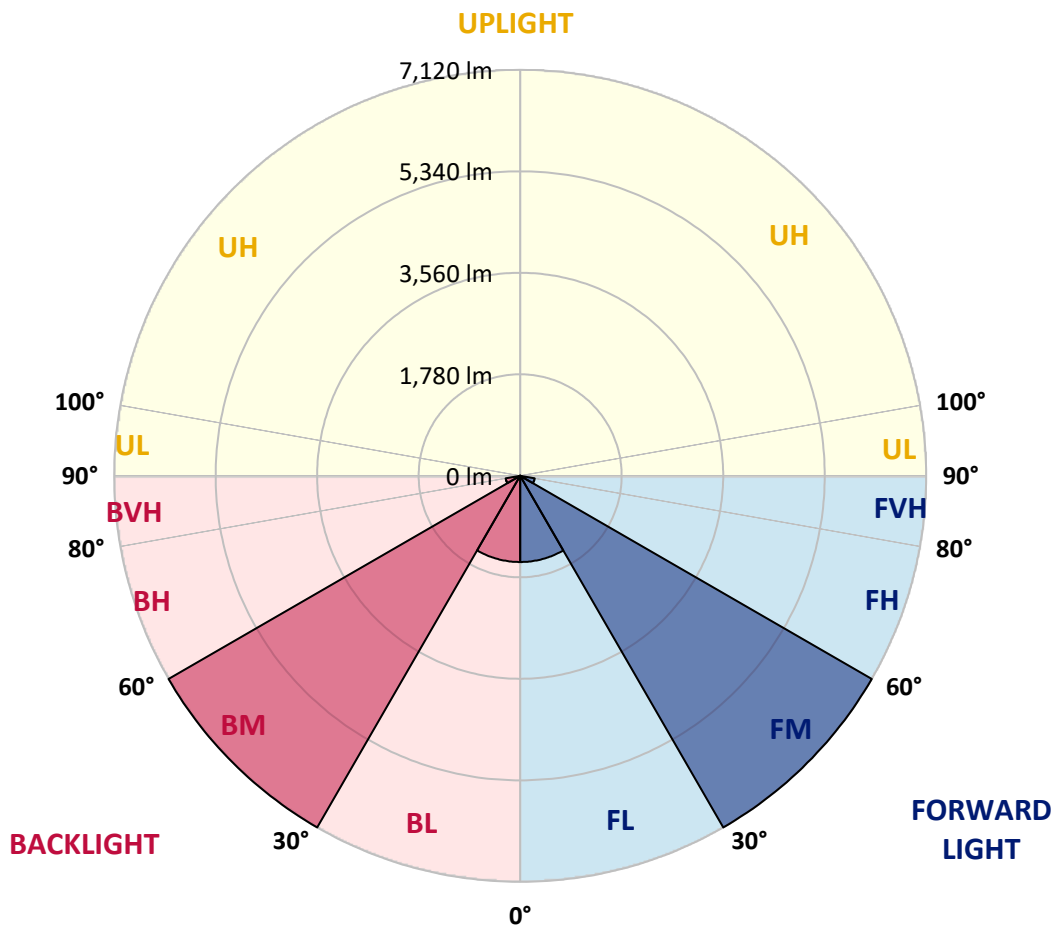
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1511.8	8.5			
FM (30°-60°)	7120.1	40.0			
FH (60°-80°)	258.5	1.5			G0/660
FVH (80°-90°)	8.6	0.0			G0/10
BL (0°-30°)	1511.8	8.5	B3/2500		
BM (30°-60°)	7120.1	40.0	B4/8500		
BH (60°-80°)	258.5	1.5	B1/500		G0/660
BVH (80°-90°)	8.6	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°	2918.3	2918.3	2918.3	2918.3	2918.3	2918.3	2918.3	2918.3	2918.3	2918.3	2918.3
2.5°	2932.4	2949.3	2938.1	2946.5	2946.5	2932.4	2940.9	2907.0	2929.6	2912.7	2915.5
5°	2977.5	2974.7	2974.7	2977.5	2966.3	2971.9	2960.6	2949.3	2940.9	2929.6	2963.4
7.5°	3033.9	3033.9	3014.2	3019.8	3014.2	3022.6	3000.1	2977.5	2969.1	2960.6	2955.0
10°	3087.5	3081.9	3073.4	3098.8	3079.0	3067.8	3056.5	3042.4	3011.4	3000.1	2988.8
12.5°	3166.4	3163.6	3152.3	3177.7	3166.4	3177.7	3135.4	3098.8	3093.1	3056.5	3076.2
15°	3259.5	3284.9	3265.1	3265.1	3259.5	3245.4	3228.5	3211.6	3160.8	3146.7	3149.5
17.5°	3380.7	3372.3	3375.1	3375.1	3403.3	3366.6	3332.8	3290.5	3265.1	3256.7	3228.5
20°	3496.3	3507.6	3504.8	3524.5	3541.5	3502.0	3465.3	3459.7	3389.2	3400.5	3361.0
22.5°	3699.4	3690.9	3705.0	3719.1	3707.8	3702.2	3668.3	3626.0	3564.0	3535.8	3530.2
25°	3913.6	3899.5	3874.2	3908.0	3924.9	3950.3	3885.5	3862.9	3767.0	3724.7	3727.6
27.5°	4096.9	4116.7	4144.9	4159.0	4201.2	4192.8	4147.7	4074.4	4001.1	3953.1	3922.1
30°	4347.9	4359.1	4407.1	4426.8	4500.1	4519.9	4449.4	4364.8	4235.1	4173.1	4136.4
32.5°	4579.1	4658.0	4655.2	4753.9	4872.3	4954.1	4827.2	4697.5	4567.8	4494.5	4429.6
35°	4954.1	4940.0	5021.8	5126.1	5317.8	5410.9	5272.7	5123.3	4925.9	4807.5	4756.7
37.5°	5303.7	5309.4	5419.3	5585.7	5805.6	5949.4	5828.2	5582.9	5379.9	5227.6	5157.1
40°	5811.3	5822.5	5935.3	6124.2	6372.4	6527.4	6386.5	6138.3	5867.7	5749.2	5749.2
42.5°	6406.2	6454.1	6527.4	6691.0	6913.7	7085.7	6958.8	6764.3	6490.8	6338.5	6361.1
45°	7018.1	7040.6	7088.6	7331.0	7435.4	7520.0	7401.5	7311.3	7128.0	6941.9	6910.9
47.5°	7590.4	7598.9	7739.9	7816.0	7897.8	7827.3	7903.4	7785.0	7579.2	7398.7	7362.1
50°	7844.2	7830.1	8030.3	8261.5	8323.5	8199.5	8134.6	8055.7	7742.7	7525.6	7429.7
52.5°	7105.5	7187.2	7559.4	8202.3	8687.3	8791.6	8413.8	8050.0	7466.4	7043.4	6978.6
54°	6259.6	6335.7	6643.0	7596.1	8605.5	8958.0	8348.9	7576.3	6753.0	6251.1	6186.3
55°	5422.1	5337.6	5895.8	6868.6	8222.0	8811.3	8092.3	6964.5	6022.7	5563.1	5472.9
57.5°	2935.2	2949.3	3420.2	4339.4	5777.4	6755.8	5966.3	4711.6	3558.4	3042.4	2997.3
60°	930.5	953.0	1158.9	1753.8	2760.4	3296.1	2825.3	1892.0	1308.3	1048.9	1006.6
62.5°	290.4	301.7	329.9	490.6	755.7	1079.9	845.9	507.5	377.8	346.8	352.5
65°	177.6	177.6	180.5	191.7	225.6	262.2	253.8	222.8	214.3	208.7	205.8
67.5°	115.6	112.8	118.4	126.9	132.5	135.3	143.8	152.3	149.4	143.8	143.8
70°	70.5	67.7	73.3	84.6	87.4	93.0	101.5	112.8	110.0	104.3	107.1
72.5°	39.5	39.5	42.3	50.8	59.2	64.9	73.3	81.8	84.6	81.8	81.8
75°	14.1	16.9	22.6	31.0	36.7	45.1	53.6	62.0	70.5	64.9	62.0
77.5°	5.6	5.6	11.3	19.7	28.2	36.7	50.8	59.2	64.9	59.2	53.6
80°	2.8	2.8	8.5	16.9	25.4	33.8	42.3	50.8	53.6	47.9	42.3
82.5°	2.8	2.8	8.5	16.9	25.4	31.0	45.1	50.8	56.4	50.8	42.3
85°	0.0	2.8	8.5	16.9	22.6	25.4	25.4	16.9	14.1	8.5	8.5
87.5°	0.0	0.0	2.8	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)