

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: P648141

Luminaire Tested: **GALN-SA9A-835-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648141
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-SA9A-835-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 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: 33974.4 lumens
Efficiency: N/A
Efficacy: 124.0 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

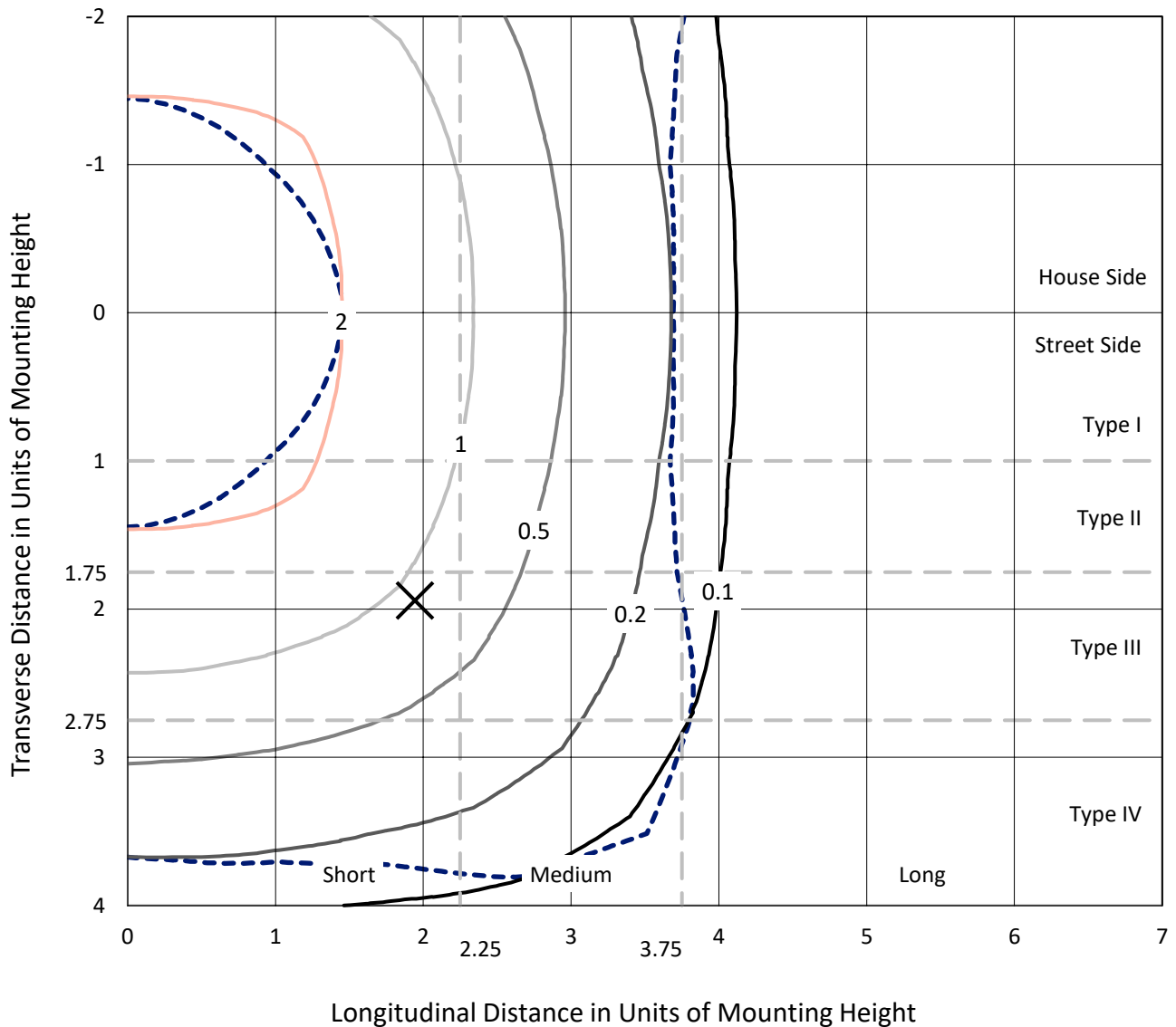
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

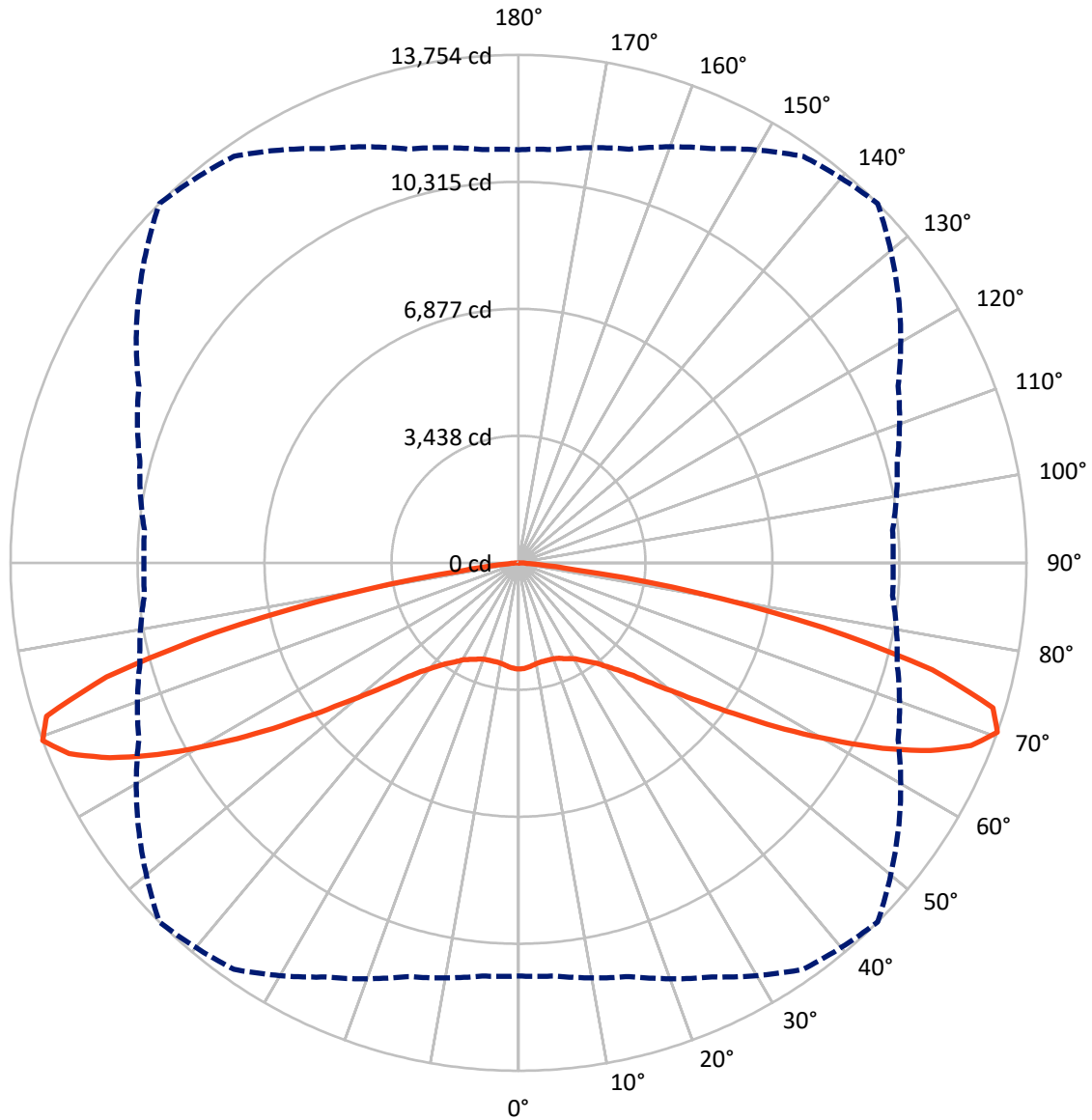
× Max cd
 - - - 1/2 Max cd



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 70-Deg Vertical

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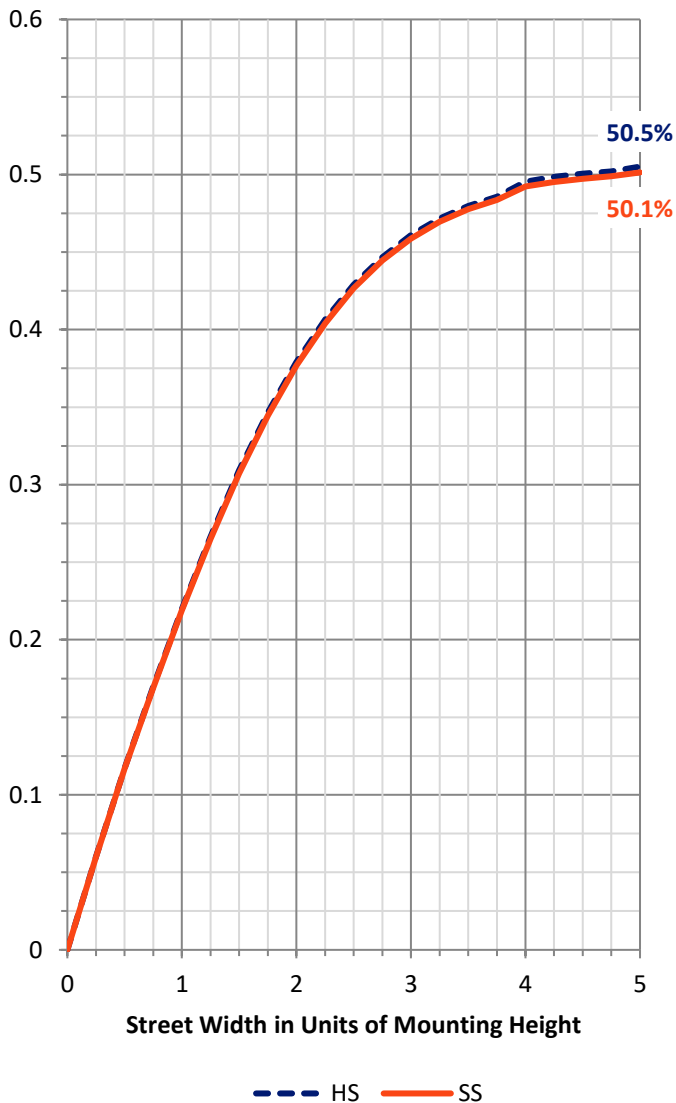
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16987.2	0.0	16987.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16987.2	0.0	16987.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	33974.4	0.0	33974.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.0	0.8
10°-20°	787.5	2.3
20°-30°	1341.7	3.9
30°-40°	2079.6	6.1
40°-50°	3500.3	10.3
50°-60°	6368.6	18.7
60°-70°	10781.9	31.7
70°-80°	8345.6	24.6
80°-90°	500.1	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°	33974.4	100.0
0°-180°	33974.4	100.0



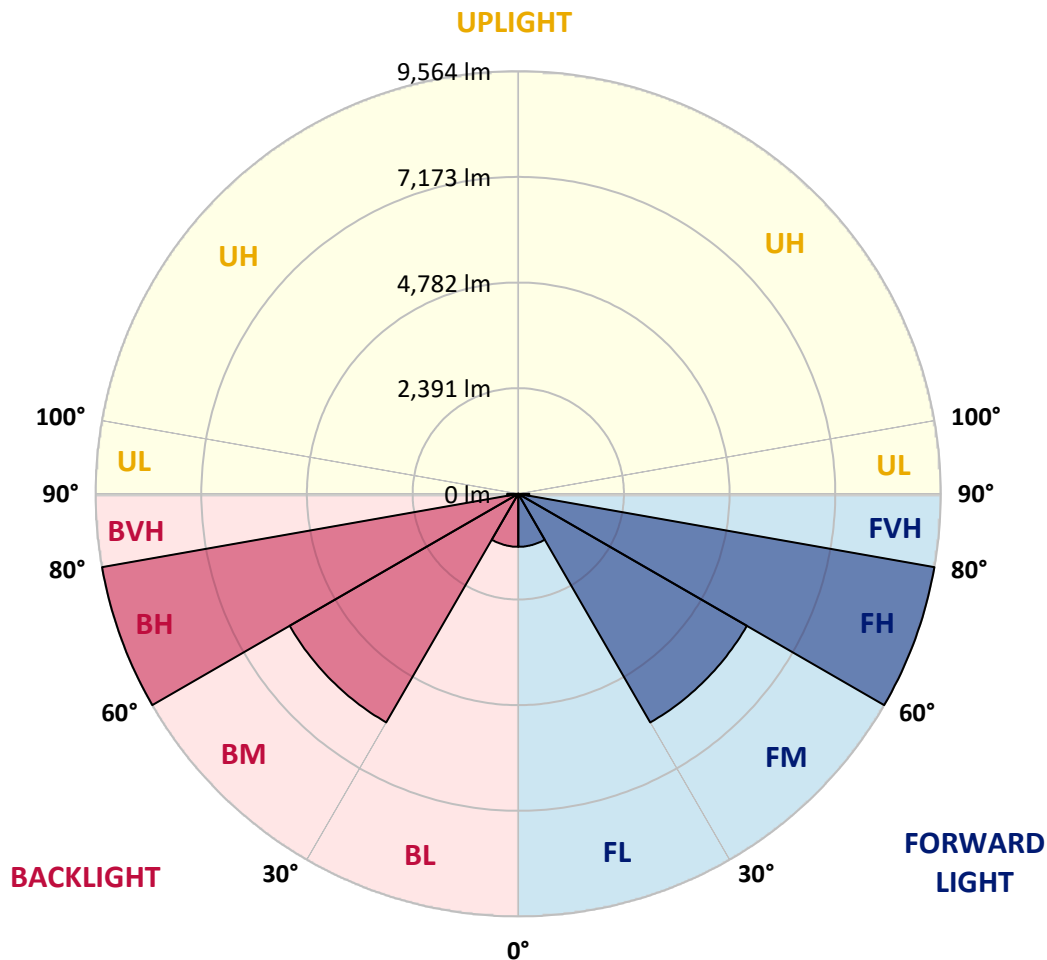
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1199.1	3.5			
FM (30°-60°)	5974.3	17.6			
FH (60°-80°)	9563.8	28.1			G4/12000
FVH (80°-90°)	250.0	0.7			G3/500
BL (0°-30°)	1199.1	3.5	B3/2500		
BM (30°-60°)	5974.3	17.6	B4/8500		
BH (60°-80°)	9563.8	28.1	B5		G4/12000
BVH (80°-90°)	250.0	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°	2876.4	2876.4	2876.4	2876.4	2876.4	2876.4	2876.4	2876.4	2876.4	2876.4	2876.4
2.5°	2869.1	2870.9	2870.9	2867.3	2865.5	2865.5	2863.8	2863.8	2869.1	2870.9	2872.7
5°	2844.0	2844.0	2844.0	2842.3	2838.7	2838.7	2835.1	2835.1	2836.9	2842.3	2838.7
7.5°	2810.0	2813.6	2813.6	2806.4	2800.9	2800.9	2799.2	2800.9	2802.7	2808.2	2806.4
10°	2799.2	2800.9	2792.0	2779.4	2770.5	2765.1	2766.9	2770.5	2779.4	2783.0	2784.8
12.5°	2806.4	2806.4	2790.2	2772.3	2756.2	2749.0	2747.2	2759.7	2775.9	2786.6	2790.2
15°	2815.4	2811.8	2792.0	2768.7	2752.6	2750.8	2749.0	2757.9	2781.2	2802.7	2804.5
17.5°	2820.8	2819.0	2793.8	2765.1	2756.2	2756.2	2754.4	2761.5	2786.6	2813.6	2815.4
20°	2838.7	2833.3	2804.5	2774.1	2766.9	2770.5	2765.1	2774.1	2800.9	2833.3	2840.5
22.5°	2874.5	2869.1	2840.5	2810.0	2806.4	2806.4	2804.5	2813.6	2842.3	2876.4	2881.8
25°	2917.6	2912.2	2885.4	2863.8	2867.3	2874.5	2870.9	2872.7	2896.1	2924.8	2933.7
27.5°	2975.0	2966.1	2942.7	2924.8	2935.5	2935.5	2935.5	2933.7	2948.2	2975.0	2984.0
30°	3045.0	3041.4	3016.3	3014.6	3023.5	3014.6	3014.6	3016.3	3018.1	3043.2	3052.2
32.5°	3136.5	3129.3	3116.8	3113.2	3138.3	3145.5	3120.4	3097.1	3109.6	3134.7	3140.1
35°	3287.3	3276.5	3258.5	3238.8	3258.5	3292.7	3238.8	3220.9	3253.1	3287.3	3290.9
37.5°	3491.8	3486.5	3457.7	3421.9	3420.1	3455.9	3400.3	3398.5	3459.5	3500.8	3506.2
40°	3748.4	3753.8	3717.9	3683.8	3665.8	3694.6	3651.5	3667.7	3726.8	3773.5	3769.9
42.5°	4109.0	4089.3	4033.7	4001.4	3981.6	3970.9	3960.1	3985.2	4051.6	4101.9	4141.4
45°	4530.8	4523.5	4453.5	4414.1	4371.0	4354.9	4351.3	4396.2	4476.9	4538.0	4543.3
47.5°	5008.1	4991.9	4947.0	4905.7	4889.6	4869.9	4851.9	4886.0	4966.8	5009.9	5022.4
50°	5499.7	5503.3	5503.3	5496.1	5512.2	5515.8	5467.4	5480.0	5524.8	5521.2	5517.6
52.5°	6061.4	6081.1	6174.3	6183.4	6260.5	6312.5	6224.6	6172.5	6156.4	6059.6	6066.7
55°	6721.7	6739.6	6879.5	7019.5	7227.6	7315.6	7130.8	6969.2	6854.5	6707.3	6714.5
57.5°	7545.2	7554.2	7687.0	7956.1	8286.3	8492.7	8167.9	7848.5	7615.2	7475.3	7419.6
60°	8431.7	8440.7	8634.5	8962.8	9475.9	9727.2	9325.2	8803.1	8508.8	8295.3	8309.7
62.5°	9495.7	9531.6	9705.7	10157.9	10780.5	11062.1	10529.2	9831.3	9432.9	9167.4	9178.1
65°	10635.1	10696.2	10886.4	11383.3	11957.6	12260.8	11607.7	10802.0	10306.8	9982.0	10016.1
67.5°	11374.4	11428.2	11702.8	12251.8	12967.8	13219.0	12375.6	11437.2	10818.2	10430.6	10358.8
70°	11186.0	11230.9	11596.9	12375.6	13436.1	13753.7	12558.7	11343.9	10615.4	10168.6	10139.8
72.5°	9874.3	9781.0	10315.7	11433.6	12901.4	13434.3	11982.7	10360.6	9443.7	8984.3	8930.5
75°	6544.0	6746.8	7536.3	8853.3	10915.0	11575.4	10227.8	8318.6	7164.8	6782.7	6723.5
77.5°	2187.3	2343.4	3045.0	5018.8	7441.2	8433.5	7452.0	5440.4	3848.9	3100.6	3115.0
80°	579.6	572.4	741.0	1379.9	3215.5	4884.2	3743.1	1842.8	1008.4	730.3	692.6
82.5°	208.1	233.3	299.7	382.2	852.3	1518.0	1071.2	516.8	378.6	279.9	270.9
85°	91.5	89.7	129.2	152.5	213.5	283.5	251.2	218.9	192.0	127.4	118.4
87.5°	19.7	19.7	30.5	23.3	37.7	37.7	46.7	55.6	57.4	37.7	30.5
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)