

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: P458978

Luminaire Tested: **GALN-SA5A-735-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458978
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-735-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22265 lumens
Efficiency: N/A
Efficacy: 144.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

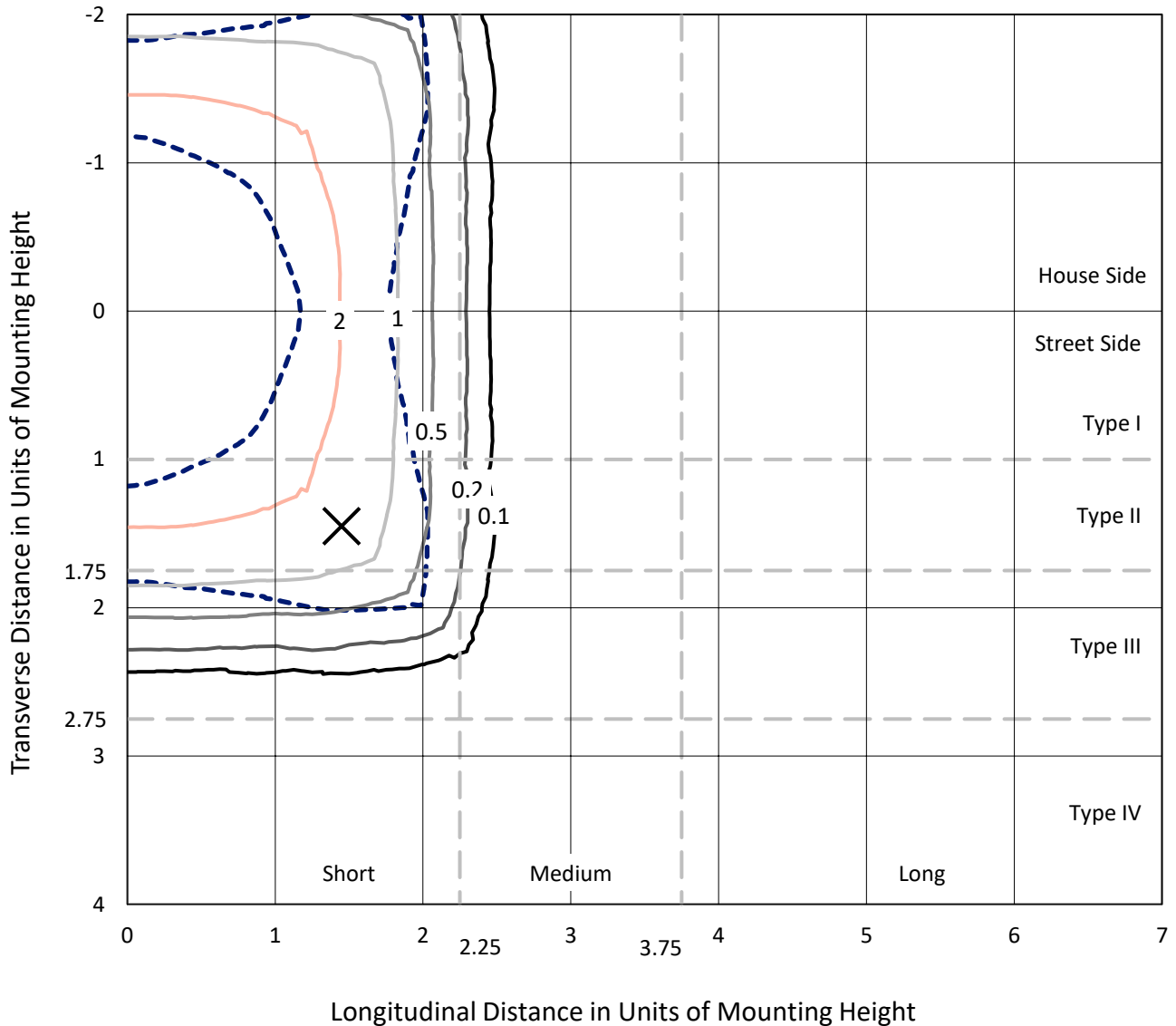
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

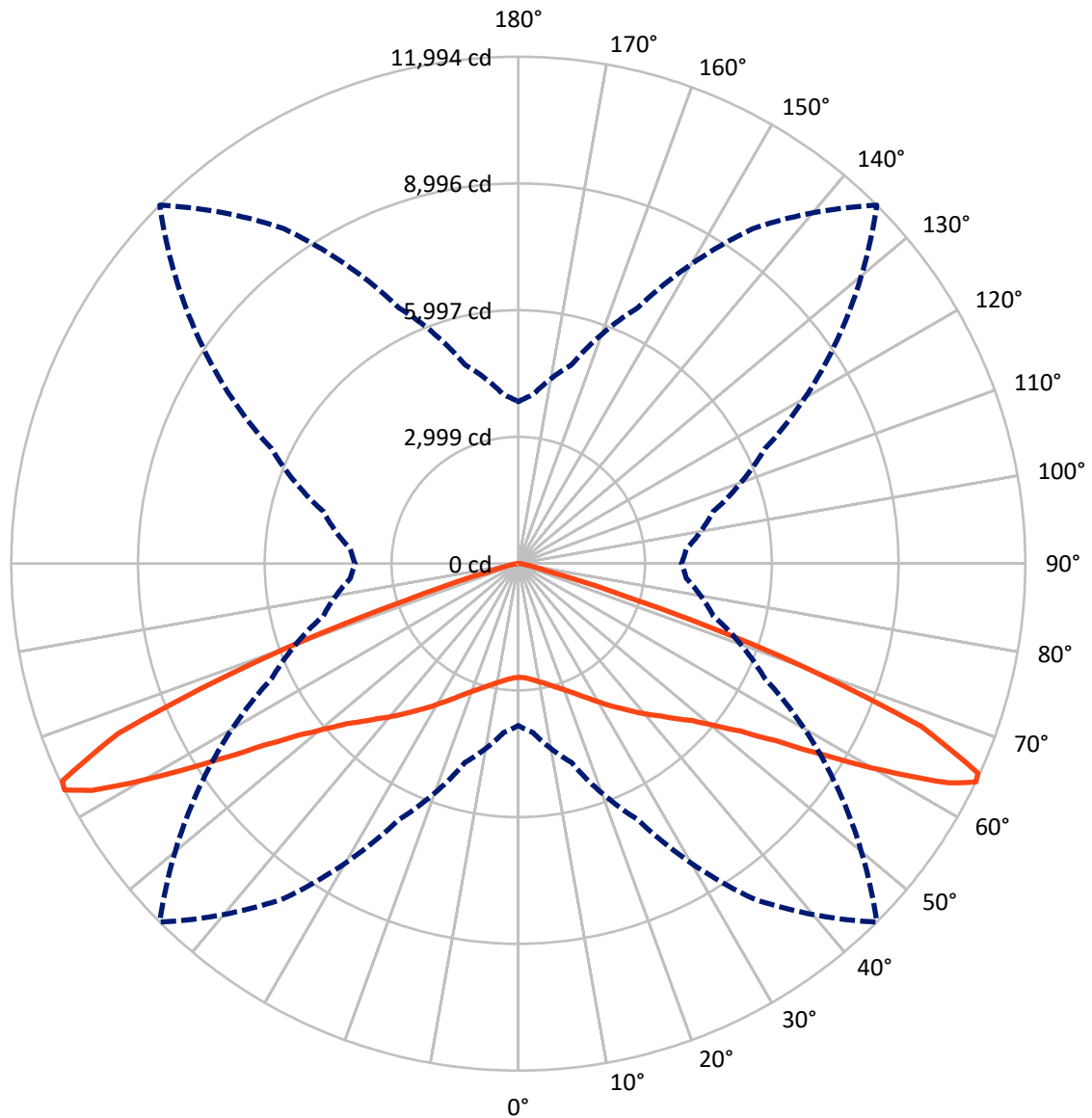
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11132.5	0.0	11132.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11132.5	0.0	11132.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	22265.0	0.0	22265.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.4	1.2
10°-20°	852.8	3.8
20°-30°	1611.6	7.2
30°-40°	2668.9	12.0
40°-50°	4166.6	18.7
50°-60°	6441.5	28.9
60°-70°	5554.4	24.9
70°-80°	629.4	2.8
80°-90°	75.4	0.3
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°	22265.0	100.0
0°-180°	22265.0	100.0

Coefficient of Utilization



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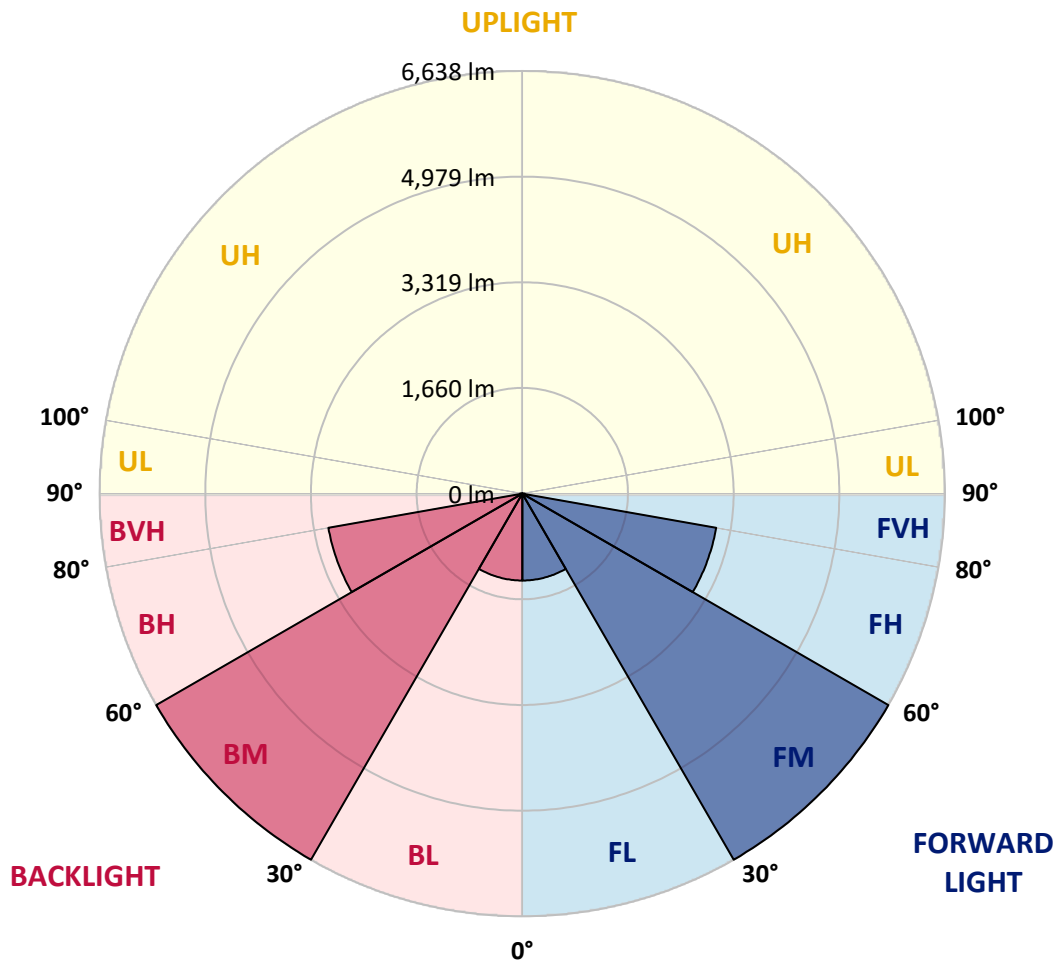
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1364.4	6.1			
FM	(30°-60°)	6638.5	29.8			
FH	(60°-80°)	3091.9	13.9			G2/5000
FVH	(80°-90°)	37.7	0.2			G1/100
BL	(0°-30°)	1364.4	6.1	B3/2500		
BM	(30°-60°)	6638.5	29.8	B4/8500		
BH	(60°-80°)	3091.9	13.9	B4/5000		G2/5000
BVH	(80°-90°)	37.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2691.1	2691.1	2691.1	2691.1	2691.1	2691.1	2691.1	2691.1	2691.1	2691.1	2691.1
2.5°	2701.7	2707.6	2702.9	2701.7	2700.5	2700.5	2701.7	2706.4	2710.0	2707.6	2707.6
5°	2735.9	2740.6	2738.3	2737.1	2735.9	2737.1	2734.7	2733.6	2737.1	2737.1	2735.9
7.5°	2778.4	2784.3	2781.9	2784.3	2785.4	2786.6	2780.7	2776.0	2774.8	2778.4	2776.0
10°	2836.2	2840.9	2842.0	2843.2	2845.6	2844.4	2837.3	2829.1	2827.9	2826.7	2825.5
12.5°	2901.0	2904.5	2905.7	2910.4	2914.0	2915.2	2906.9	2899.8	2888.0	2890.4	2885.7
15°	2974.1	2981.2	2980.0	2987.1	2996.5	2998.9	2990.6	2978.8	2968.2	2962.3	2958.8
17.5°	3063.7	3068.5	3066.1	3073.2	3085.0	3090.9	3083.8	3068.5	3057.9	3044.9	3037.8
20°	3169.9	3178.1	3180.5	3180.5	3191.1	3197.0	3186.4	3181.7	3165.2	3155.7	3149.8
22.5°	3290.2	3293.7	3300.8	3307.9	3318.5	3316.1	3312.6	3305.5	3290.2	3281.9	3272.5
25°	3425.8	3429.3	3447.0	3462.3	3465.9	3463.5	3458.8	3455.3	3441.1	3422.2	3415.2
27.5°	3583.8	3590.9	3614.5	3628.6	3628.6	3629.8	3620.4	3632.2	3601.5	3579.1	3576.7
30°	3781.9	3786.6	3806.7	3820.8	3813.8	3807.9	3805.5	3817.3	3784.3	3744.2	3734.8
32.5°	3977.7	3994.2	4011.9	4042.5	4017.8	4007.2	4004.8	4013.1	3975.3	3930.5	3917.5
35°	4187.6	4199.4	4232.4	4258.4	4235.9	4211.2	4221.8	4247.7	4202.9	4142.8	4140.4
37.5°	4419.9	4430.5	4473.0	4500.1	4483.6	4441.1	4458.8	4489.5	4444.7	4370.4	4355.1
40°	4661.7	4684.1	4737.1	4765.4	4738.3	4681.7	4714.7	4747.8	4707.7	4621.6	4587.4
42.5°	4932.9	4968.3	5044.9	5059.1	5007.2	4930.5	4988.3	5041.4	5013.1	4914.0	4901.1
45°	5250.1	5271.3	5365.7	5396.4	5324.4	5228.9	5300.8	5397.5	5376.3	5261.9	5237.1
47.5°	5605.1	5625.1	5723.0	5769.0	5678.2	5549.7	5679.4	5805.6	5792.6	5669.9	5658.1
50°	6024.9	6029.6	6165.2	6217.1	6126.3	6015.5	6131.0	6287.9	6236.0	6079.1	6076.8
52.5°	6484.8	6490.7	6661.7	6761.9	6711.2	6586.2	6723.0	6818.6	6686.5	6481.3	6466.0
55°	6883.4	6912.9	7146.4	7412.9	7482.5	7391.7	7433.0	7388.1	7062.7	6774.9	6730.1
57.5°	7046.2	7103.9	7458.9	7956.6	8409.4	8543.8	8225.4	7798.5	7212.4	6805.6	6761.9
60°	6648.7	6711.2	7262.0	8206.6	9362.2	9946.0	9050.9	7868.1	6871.6	6299.7	6231.3
62.5°	5324.4	5342.1	6152.3	7618.1	9917.7	11429.5	9398.8	7274.9	5879.9	5102.7	5075.6
64°	3831.5	4013.1	4871.6	6679.4	9674.8	11994.4	9198.3	6443.5	4776.1	3989.5	3862.1
65°	2865.6	2915.2	3927.0	5704.1	9246.7	11951.9	8809.2	5648.7	3955.3	3053.1	2911.6
67.5°	1082.6	1088.5	1449.3	2843.2	6582.7	10283.3	6723.0	3073.2	1666.3	1205.2	1161.6
70°	449.3	457.6	531.9	956.4	2829.1	6602.7	3241.8	1108.5	609.7	494.1	487.0
72.5°	329.0	333.7	356.1	424.5	870.3	2711.1	1066.1	470.5	357.3	319.6	316.0
75°	258.3	260.6	277.1	312.5	405.7	751.2	443.4	323.1	272.4	245.3	242.9
77.5°	196.9	202.8	214.6	238.2	272.4	356.1	293.6	241.8	209.9	187.5	184.0
80°	135.6	142.7	165.1	174.5	182.8	231.1	200.5	182.8	163.9	136.8	128.5
82.5°	83.7	88.4	110.9	119.1	115.6	129.7	128.5	130.9	116.7	84.9	79.0
85°	43.6	46.0	60.1	62.5	57.8	53.1	66.0	76.7	71.9	48.4	47.2
87.5°	9.4	10.6	13.0	11.8	13.0	13.0	16.5	24.8	25.9	16.5	15.3
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)