

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: P532645

Luminaire Tested: **GALN-SA8A-735-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532645
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-735-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17944 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

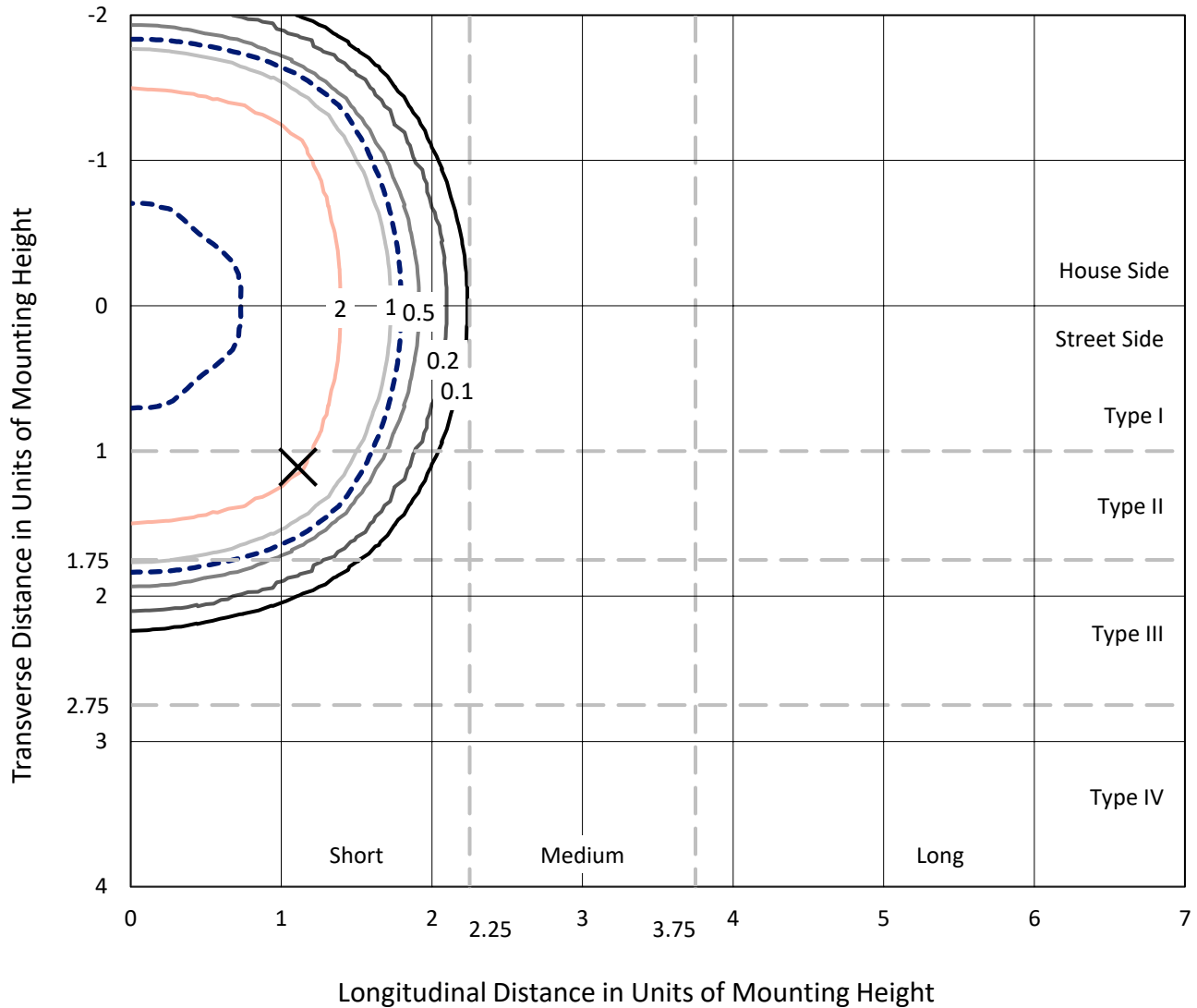
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

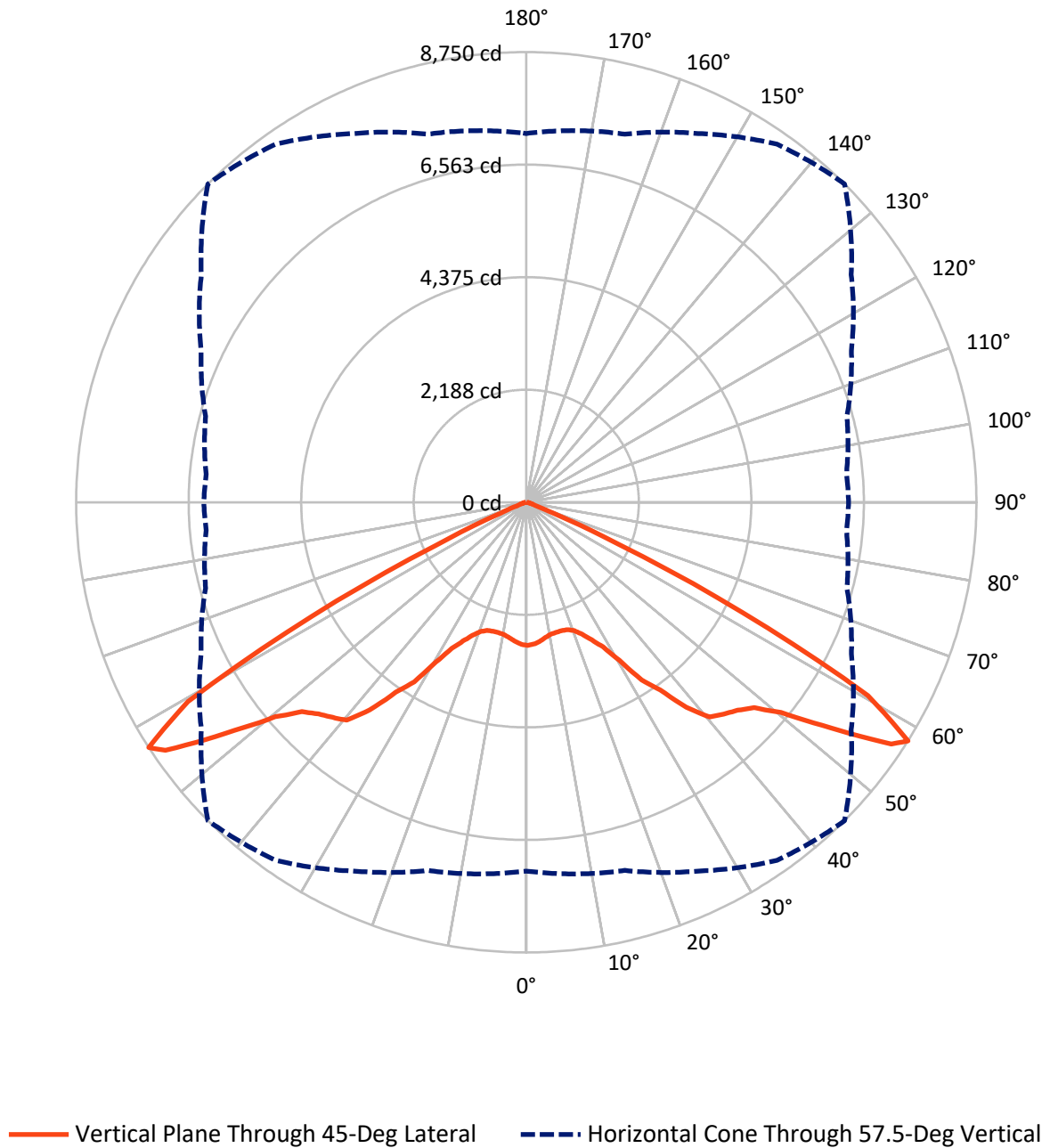
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	8972.0	0.0	8972.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8972.0	0.0	8972.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17944.0	0.0	17944.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.8	1.4
10°-20°	739.3	4.1
20°-30°	1364.6	7.6
30°-40°	2683.7	15.0
40°-50°	4371.1	24.4
50°-60°	6233.7	34.7
60°-70°	2158.3	12.0
70°-80°	115.8	0.6
80°-90°	21.7	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°	17944.0	100.0
0°-180°	17944.0	100.0

Coefficient of Utilization



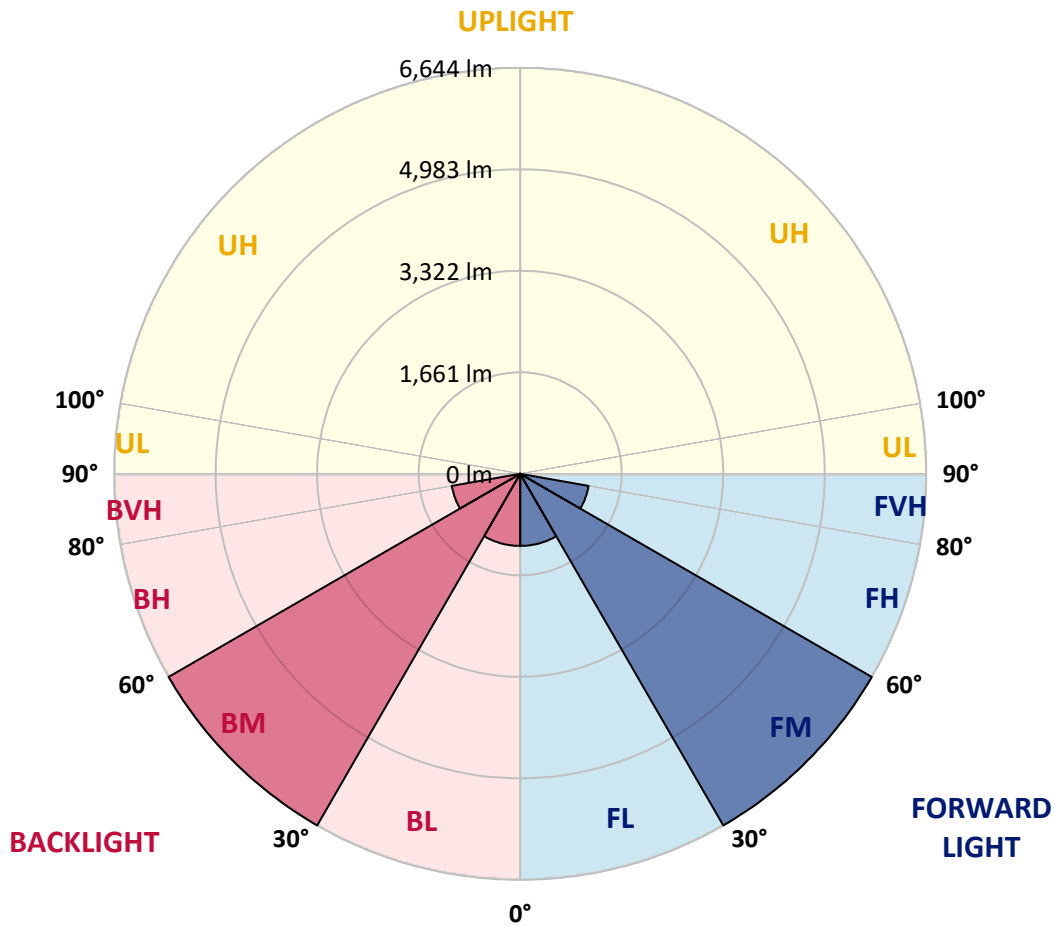
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1179.9	6.6			
FM (30°-60°)	6644.3	37.0			
FH (60°-80°)	1137.0	6.3			G1/1800
FVH (80°-90°)	10.9	0.1			G1/100
BL (0°-30°)	1179.9	6.6	B3/2500		
BM (30°-60°)	6644.3	37.0	B4/8500		
BH (60°-80°)	1137.0	6.3	B3/2500		G1/1800
BVH (80°-90°)	10.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2783.3	2783.3	2783.3	2783.3	2783.3	2783.3	2783.3	2783.3	2783.3	2783.3	2783.3
2.5°	2775.8	2790.8	2772.1	2764.6	2760.9	2760.9	2749.6	2749.6	2745.9	2749.6	2734.7
5°	2730.9	2745.9	2745.9	2742.2	2719.7	2716.0	2704.7	2697.3	2701.0	2686.0	2697.3
7.5°	2686.0	2697.3	2682.3	2678.6	2671.1	2656.1	2652.4	2618.7	2622.4	2622.4	2629.9
10°	2678.6	2674.8	2652.4	2633.7	2611.2	2607.5	2596.3	2588.8	2588.8	2585.0	2596.3
12.5°	2678.6	2659.8	2656.1	2615.0	2577.5	2592.5	2562.6	2543.9	2570.1	2577.5	2592.5
15°	2674.8	2693.5	2629.9	2611.2	2585.0	2588.8	2562.6	2543.9	2558.8	2566.3	2577.5
17.5°	2697.3	2686.0	2667.3	2629.9	2618.7	2603.7	2570.1	2555.1	2555.1	2573.8	2577.5
20°	2757.1	2727.2	2689.8	2671.1	2682.3	2663.6	2622.4	2566.3	2581.3	2596.3	2607.5
22.5°	2813.2	2790.8	2764.6	2753.4	2817.0	2787.0	2716.0	2652.4	2629.9	2656.1	2674.8
25°	2921.7	2921.7	2873.1	2888.1	2959.1	2962.9	2880.6	2768.3	2753.4	2764.6	2772.1
27.5°	3142.4	3153.7	3112.5	3127.5	3157.4	3183.6	3112.5	3019.0	2985.3	2981.6	2992.8
30°	3381.9	3404.3	3400.6	3464.2	3550.2	3565.2	3460.4	3307.0	3206.0	3187.3	3202.3
32.5°	3696.1	3707.3	3699.8	3774.7	4006.6	4115.1	3842.0	3625.0	3490.4	3524.0	3490.4
35°	4287.2	4276.0	4193.7	4208.6	4399.4	4478.0	4216.1	4077.7	4014.1	4081.4	4066.5
37.5°	4796.0	4754.8	4687.5	4784.7	4983.0	5054.1	4781.0	4537.8	4421.9	4534.1	4582.7
40°	5226.2	5121.4	5027.9	5125.2	5390.8	5488.0	5087.8	4889.5	4844.6	4926.9	5031.6
42.5°	5589.1	5521.7	5398.3	5405.7	5581.6	5626.5	5304.7	5188.8	5143.9	5274.8	5327.2
45°	5847.2	5783.6	5667.6	5660.1	5794.8	5764.9	5476.8	5398.3	5424.4	5510.5	5536.7
47.5°	5978.1	6011.8	5944.4	5963.2	6034.2	5963.2	5734.9	5734.9	5675.1	5727.5	5701.3
50°	6356.0	6251.2	6337.3	6337.3	6412.1	6419.6	6191.4	6109.0	5948.2	5858.4	5858.4
52.5°	6797.4	6804.9	6838.5	6962.0	7089.2	7197.7	6872.2	6520.6	6251.2	6135.2	6120.3
55°	7160.3	7235.1	7369.8	7601.7	7968.3	8118.0	7556.8	6928.3	6599.1	6419.6	6382.1
56°	7358.5	7287.5	7519.4	7837.4	8316.2	8510.8	7669.0	7010.6	6647.8	6445.7	6442.0
57.5°	7167.8	7246.3	7407.2	7908.5	8495.8	8750.2	7710.2	6973.2	6453.2	6247.5	6266.2
60°	5660.1	5734.9	5951.9	6513.1	7433.4	7631.6	6524.3	5749.9	5286.0	4990.5	4994.2
62.5°	3202.3	3258.4	3426.8	3946.8	4519.1	4709.9	4066.5	3550.2	3228.5	3063.9	3011.5
65°	1178.4	1156.0	1182.2	1447.8	1799.4	1960.3	1690.9	1429.1	1260.7	1200.9	1178.4
67.5°	441.4	407.8	381.6	407.8	512.5	542.4	497.6	415.3	389.1	400.3	407.8
70°	273.1	258.1	205.8	194.5	190.8	187.0	198.3	209.5	239.4	280.6	288.1
72.5°	190.8	179.6	145.9	138.4	130.9	127.2	145.9	160.9	187.0	217.0	220.7
75°	74.8	78.6	74.8	82.3	86.0	89.8	104.7	116.0	127.2	127.2	123.5
77.5°	15.0	15.0	22.4	29.9	37.4	48.6	71.1	82.3	86.0	82.3	71.1
80°	0.0	0.0	7.5	15.0	29.9	41.2	63.6	71.1	78.6	71.1	56.1
82.5°	0.0	0.0	7.5	18.7	29.9	37.4	59.9	74.8	86.0	78.6	59.9
85°	0.0	0.0	7.5	15.0	22.4	26.2	26.2	18.7	18.7	11.2	7.5
87.5°	0.0	0.0	0.0	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)