

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: P456717

Luminaire Tested: **GALN-SA8A-730-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456717
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-SA8A-730-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 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: 35198 lumens
Efficiency: N/A
Efficacy: 144.3 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

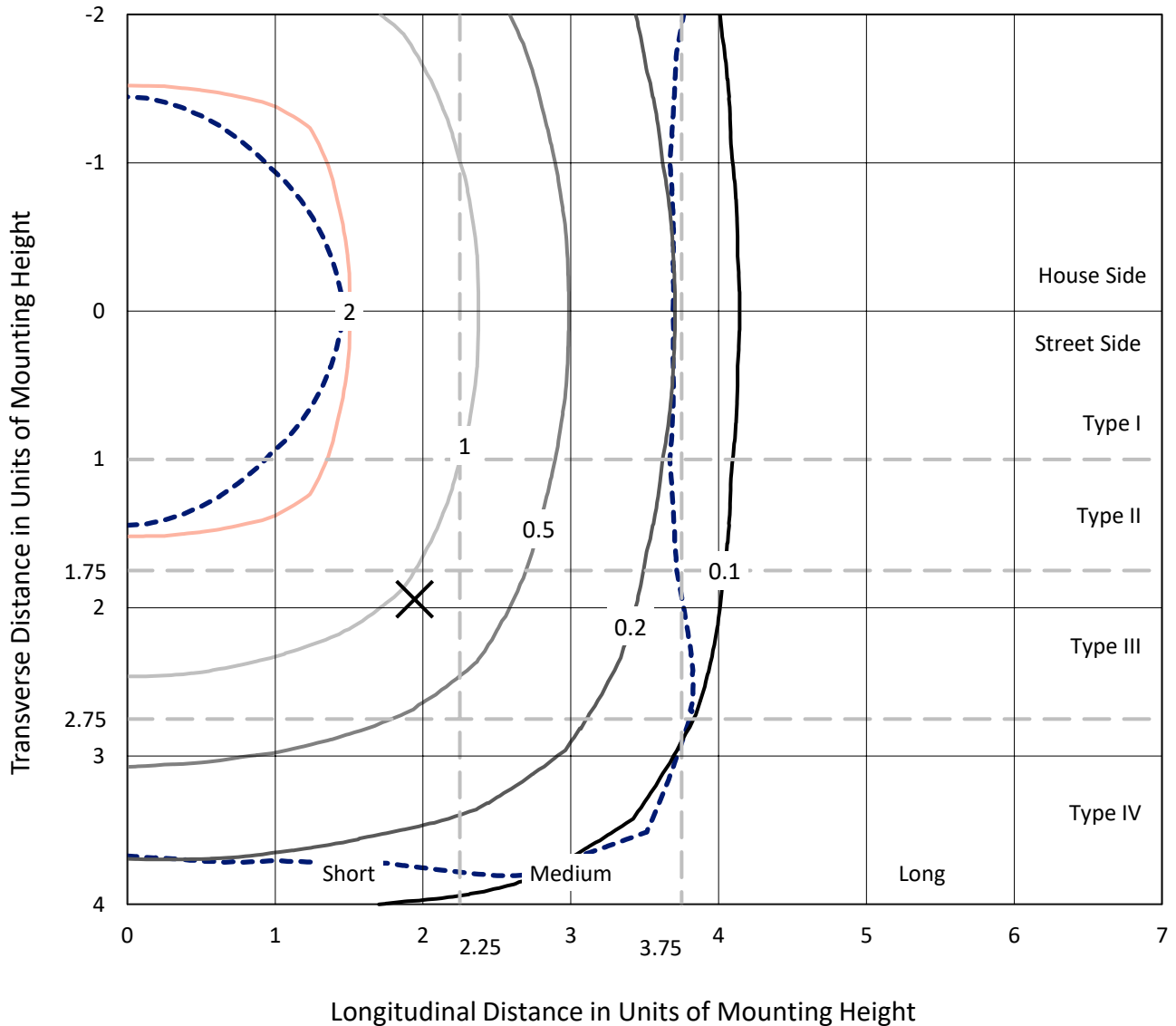
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

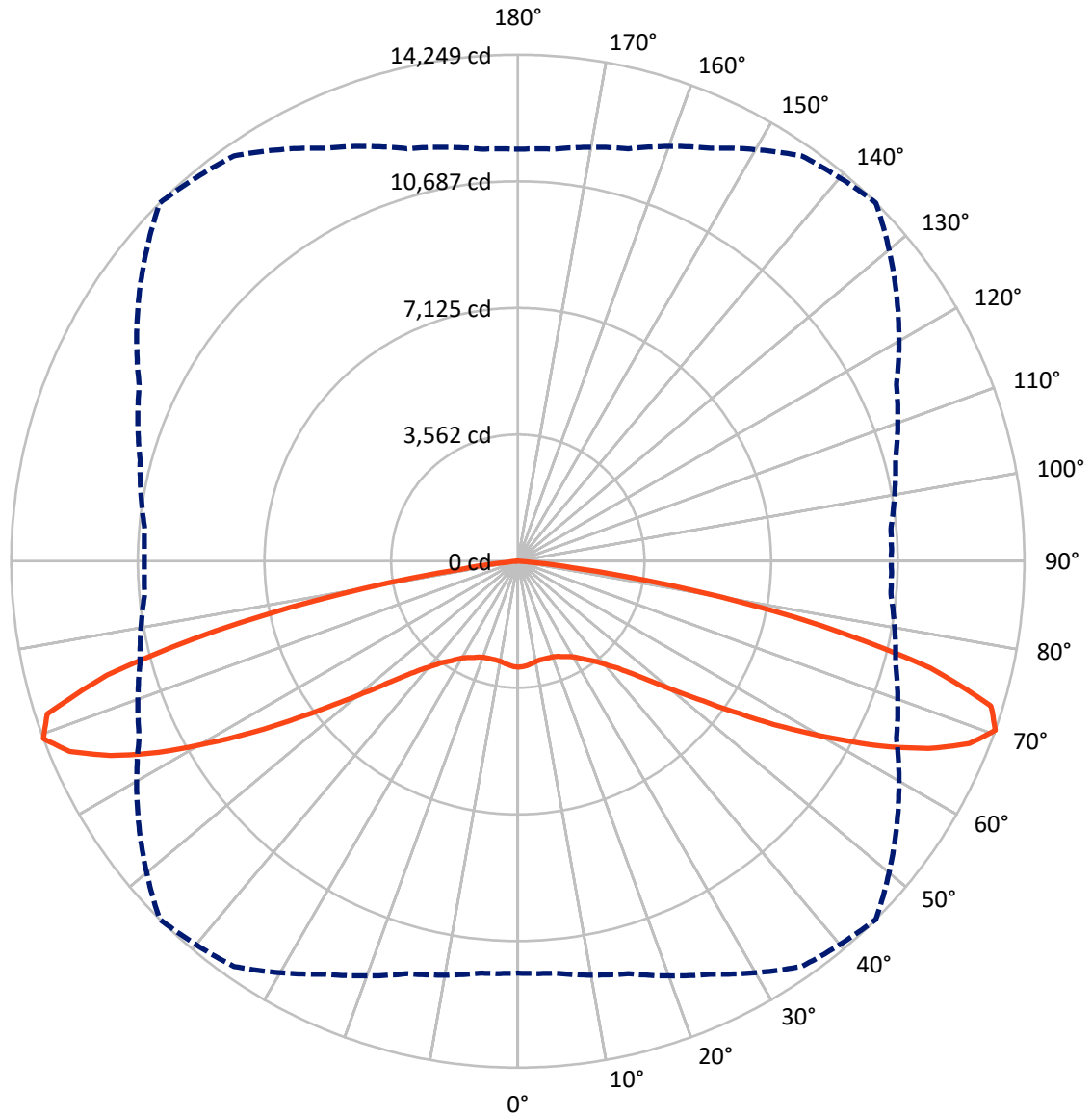
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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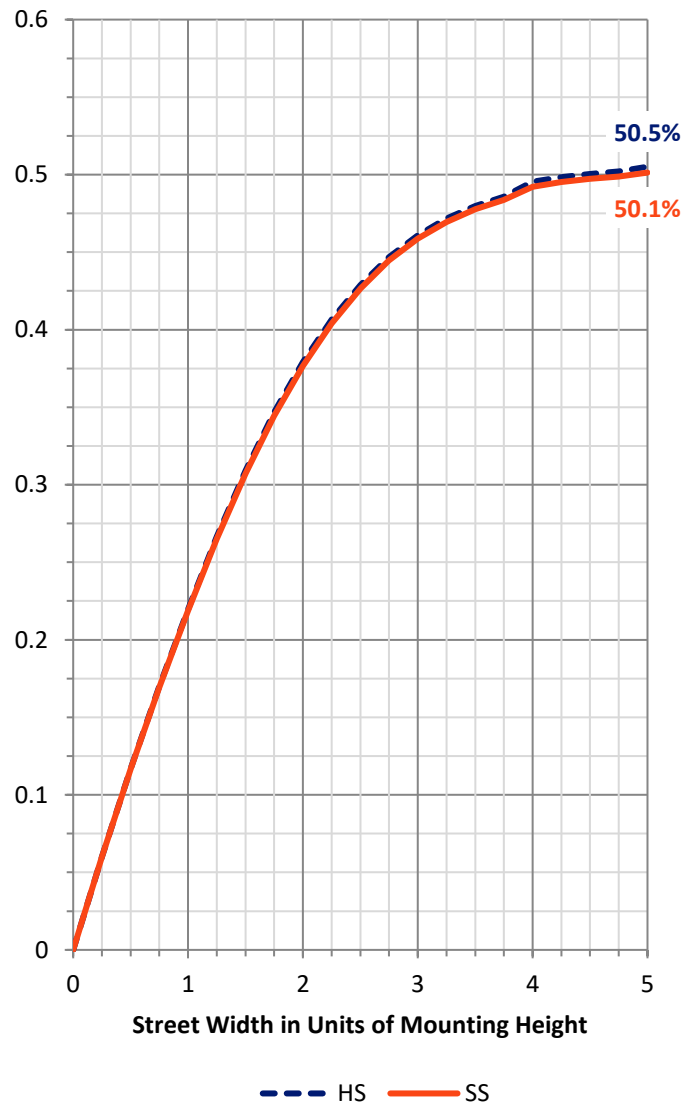
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17599.0	0.0	17599.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17599.0	0.0	17599.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	35198.0	0.0	35198.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.7	0.8
10°-20°	815.9	2.3
20°-30°	1390.0	3.9
30°-40°	2154.5	6.1
40°-50°	3626.4	10.3
50°-60°	6598.0	18.7
60°-70°	11170.2	31.7
70°-80°	8646.2	24.6
80°-90°	518.1	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°	35198.0	100.0
0°-180°	35198.0	100.0



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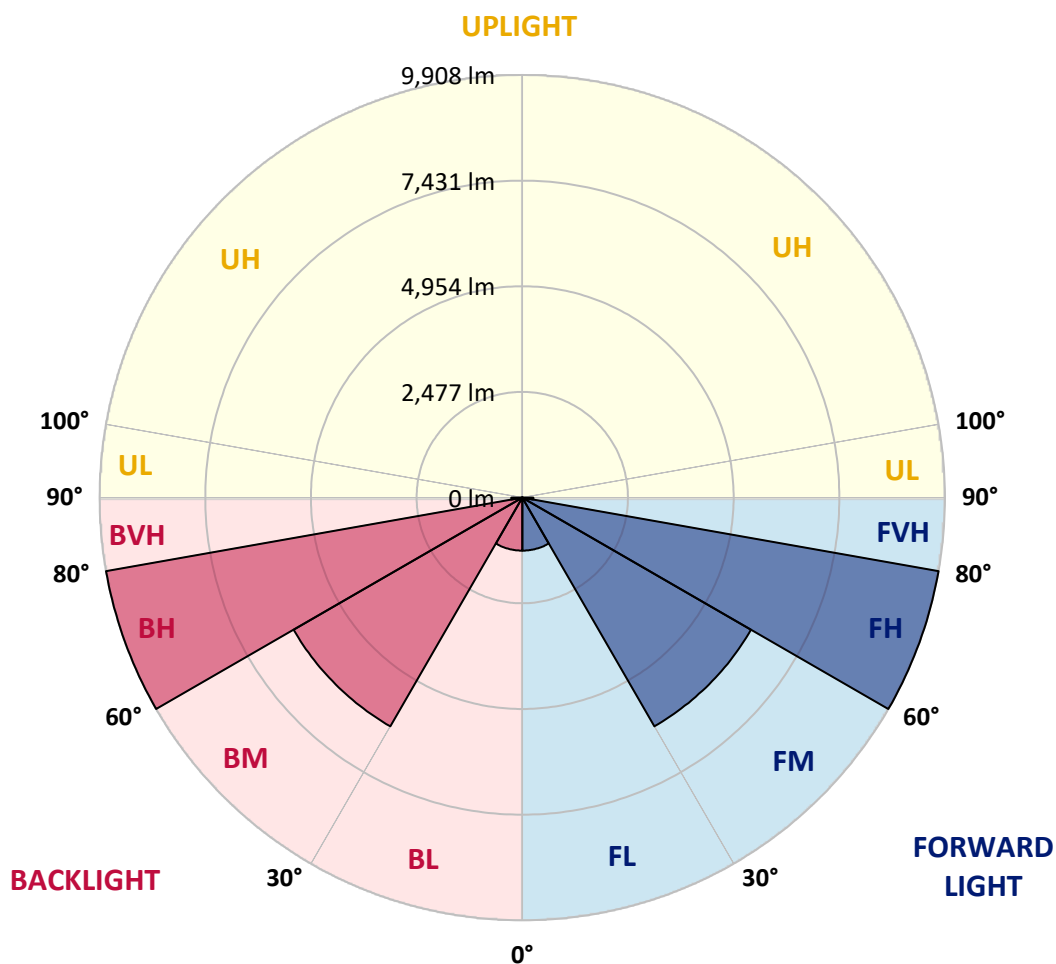
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1242.3	3.5			
FM (30°-60°)	6189.5	17.6			
FH (60°-80°)	9908.2	28.1			G4/12000
FVH (80°-90°)	259.0	0.7			G3/500
BL (0°-30°)	1242.3	3.5	B3/2500		
BM (30°-60°)	6189.5	17.6	B4/8500		
BH (60°-80°)	9908.2	28.1	B5		G4/12000
BVH (80°-90°)	259.0	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°	2979.9	2979.9	2979.9	2979.9	2979.9	2979.9	2979.9	2979.9	2979.9	2979.9	2979.9
2.5°	2972.5	2974.4	2974.4	2970.6	2968.8	2968.8	2966.9	2966.9	2972.5	2974.4	2976.2
5°	2946.5	2946.5	2946.5	2944.6	2940.9	2940.9	2937.2	2937.2	2939.0	2944.6	2940.9
7.5°	2911.2	2914.9	2914.9	2907.4	2901.9	2901.9	2900.0	2901.9	2903.7	2909.3	2907.4
10°	2900.0	2901.9	2892.6	2879.6	2870.3	2864.7	2866.5	2870.3	2879.6	2883.3	2885.1
12.5°	2907.4	2907.4	2890.7	2872.1	2855.4	2848.0	2846.1	2859.1	2875.8	2887.0	2890.7
15°	2916.7	2913.0	2892.6	2868.4	2851.7	2849.8	2848.0	2857.2	2881.4	2903.7	2905.6
17.5°	2922.3	2920.5	2894.4	2864.7	2855.4	2855.4	2853.5	2861.0	2887.0	2914.9	2916.7
20°	2940.9	2935.3	2905.6	2874.0	2866.5	2870.3	2864.7	2874.0	2901.9	2935.3	2942.8
22.5°	2978.1	2972.5	2942.8	2911.2	2907.4	2907.4	2905.6	2914.9	2944.6	2979.9	2985.5
25°	3022.7	3017.1	2989.2	2966.9	2970.6	2978.1	2974.4	2976.2	3000.4	3030.1	3039.4
27.5°	3082.2	3072.9	3048.7	3030.1	3041.3	3041.3	3041.3	3039.4	3054.3	3082.2	3091.5
30°	3154.7	3151.0	3124.9	3123.1	3132.4	3123.1	3123.1	3124.9	3126.8	3152.8	3162.1
32.5°	3249.5	3242.1	3229.0	3225.3	3251.4	3258.8	3232.8	3208.6	3221.6	3247.6	3253.2
35°	3405.6	3394.5	3375.9	3355.5	3375.9	3411.2	3355.5	3336.9	3370.3	3405.6	3409.4
37.5°	3617.6	3612.0	3582.3	3545.1	3543.2	3580.4	3522.8	3520.9	3584.1	3626.9	3632.4
40°	3883.4	3889.0	3851.8	3816.5	3797.9	3827.6	3783.0	3799.8	3861.1	3909.4	3905.7
42.5°	4257.1	4236.6	4179.0	4145.5	4125.1	4113.9	4102.8	4128.8	4197.6	4249.6	4290.5
45°	4693.9	4686.5	4614.0	4573.1	4528.5	4511.7	4508.0	4554.5	4638.2	4701.4	4706.9
47.5°	5188.4	5171.7	5125.2	5082.4	5065.7	5045.3	5026.7	5062.0	5145.7	5190.3	5203.3
50°	5697.8	5701.5	5701.5	5694.0	5710.8	5714.5	5664.3	5677.3	5723.8	5720.1	5716.4
52.5°	6279.6	6300.1	6396.7	6406.0	6486.0	6539.9	6448.8	6394.9	6378.2	6277.8	6285.2
55°	6963.7	6982.3	7127.3	7272.3	7488.0	7579.1	7387.6	7220.3	7101.3	6948.9	6956.3
57.5°	7817.0	7826.3	7963.9	8242.7	8584.8	8798.5	8462.1	8131.2	7889.5	7744.5	7686.9
60°	8735.3	8744.6	8945.4	9285.6	9817.3	10077.5	9661.1	9120.1	8815.3	8594.1	8608.9
62.5°	9837.7	9874.9	10055.2	10523.7	11168.7	11460.6	10908.5	10185.3	9772.6	9497.5	9508.7
65°	11018.2	11081.4	11278.4	11793.4	12388.2	12702.4	12025.7	11191.0	10678.0	10341.5	10376.8
67.5°	11784.1	11839.8	12124.3	12693.1	13434.8	13695.1	12821.4	11849.1	11207.8	10806.2	10731.9
70°	11588.9	11635.3	12014.6	12821.4	13920.0	14249.1	13011.0	11752.5	10997.7	10534.8	10505.1
72.5°	10230.0	10133.3	10687.3	11845.4	13366.1	13918.2	12414.3	10733.7	9783.8	9307.9	9252.1
75°	6779.7	6989.8	7807.7	9172.2	11308.2	11992.3	10596.2	8618.2	7422.9	7026.9	6965.6
77.5°	2266.1	2427.8	3154.7	5199.6	7709.2	8737.2	7720.3	5636.4	3987.5	3212.3	3227.2
80°	600.4	593.0	767.8	1429.6	3331.3	5060.1	3877.8	1909.2	1044.7	756.6	717.6
82.5°	215.6	241.7	310.4	396.0	883.0	1572.7	1109.8	535.4	392.2	290.0	280.7
85°	94.8	92.9	133.8	158.0	221.2	293.7	260.3	226.8	198.9	132.0	122.7
87.5°	20.4	20.4	31.6	24.2	39.0	39.0	48.3	57.6	59.5	39.0	31.6
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)