

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: P648146

Luminaire Tested: **GALN-SA9A-835-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648146
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-835-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20978.1 lumens
Efficiency: N/A
Efficacy: 76.6 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

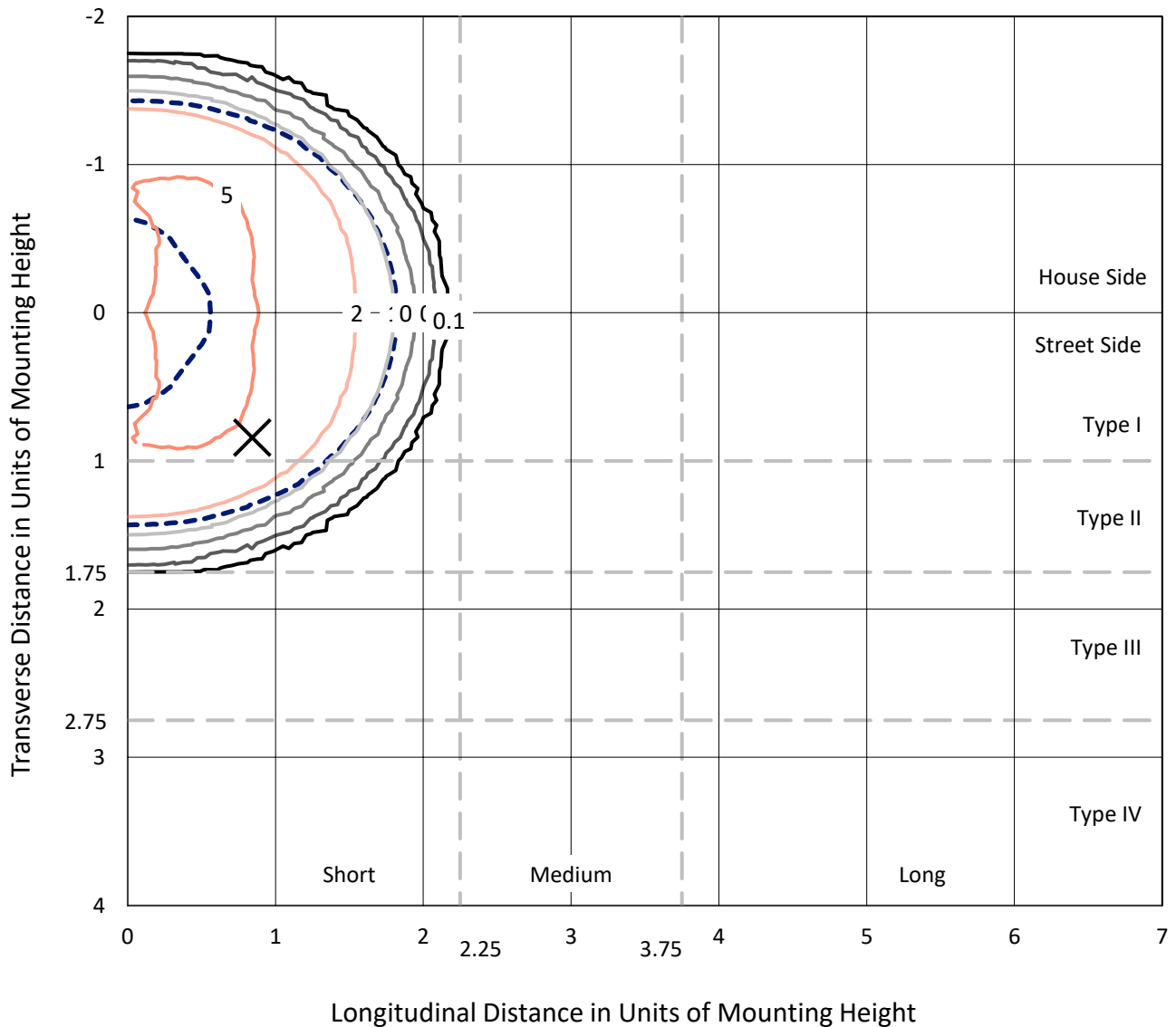
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

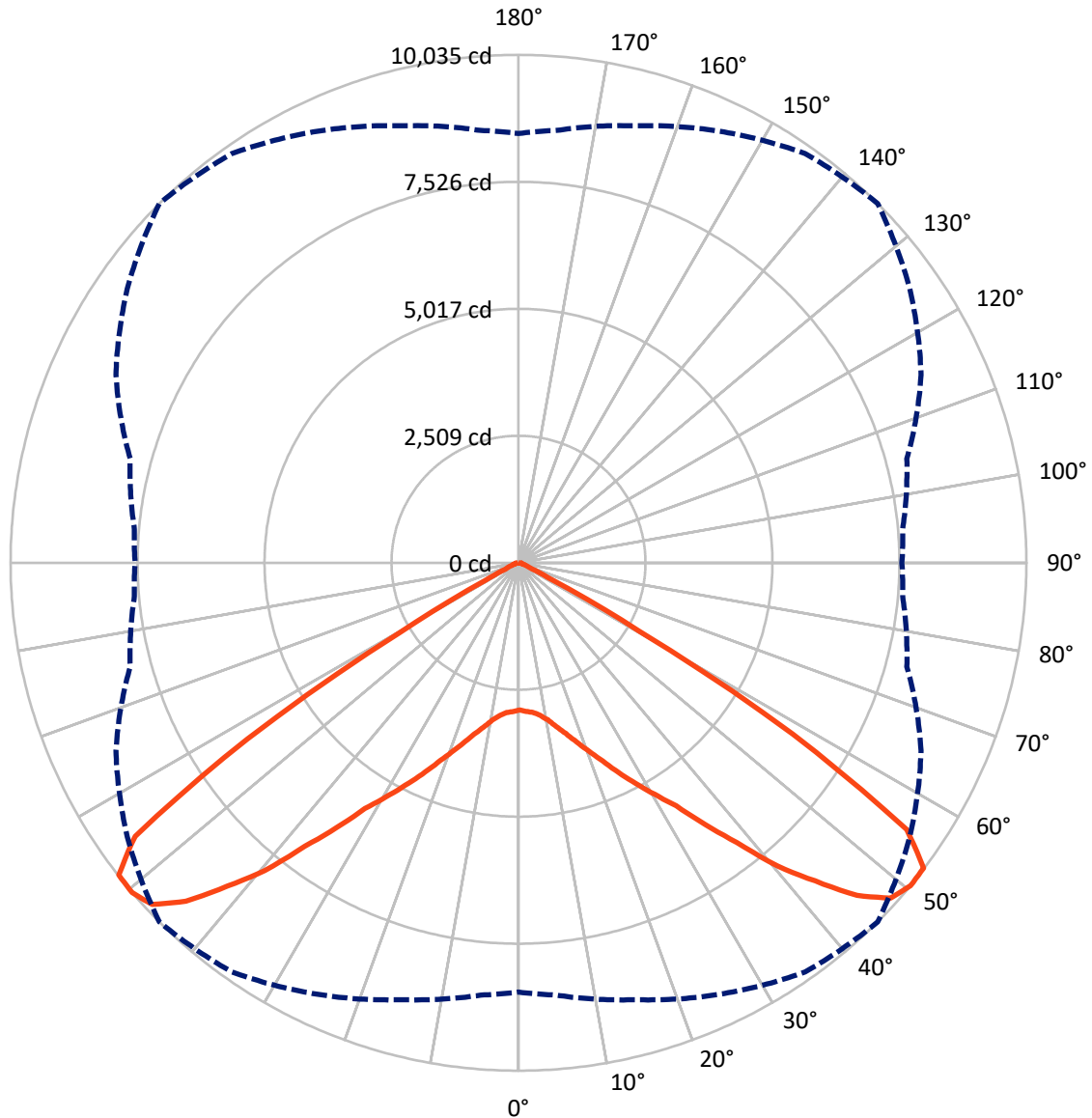
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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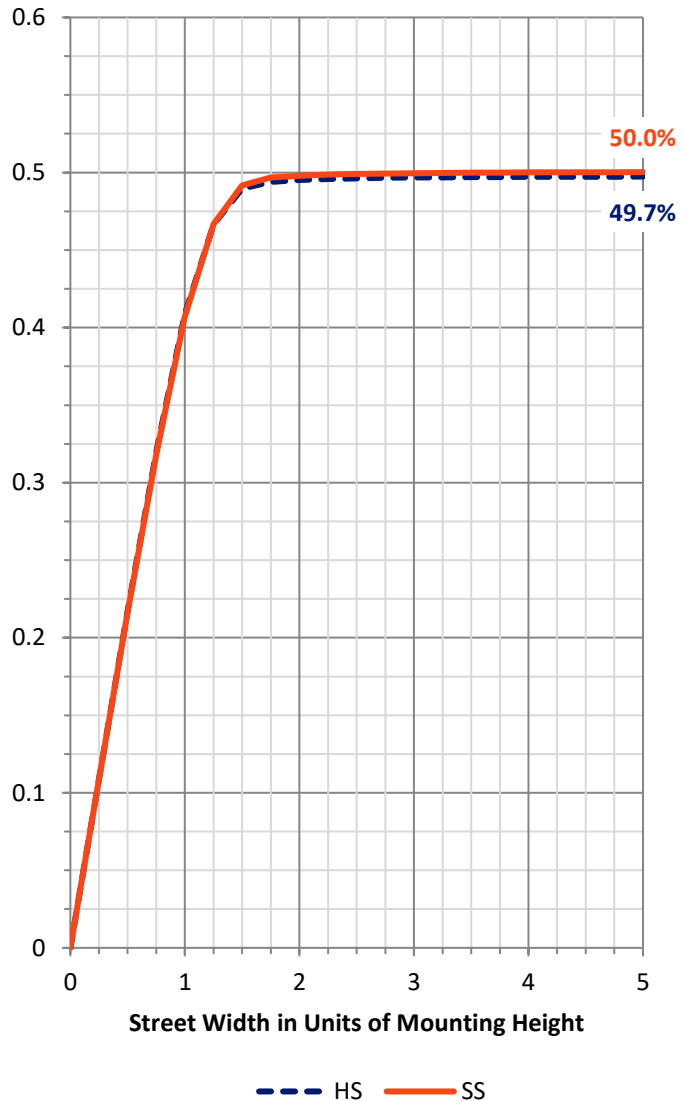
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10489.1	0.0	10489.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10489.1	0.0	10489.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	20978.1	0.0	20978.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.3	1.4
10°-20°	997.2	4.8
20°-30°	2036.7	9.7
30°-40°	3884.1	18.5
40°-50°	6545.2	31.2
50°-60°	6242.0	29.8
60°-70°	871.4	4.2
70°-80°	83.3	0.4
80°-90°	28.8	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°	20978.1	100.0
0°-180°	20978.1	100.0

Coefficient of Utilization



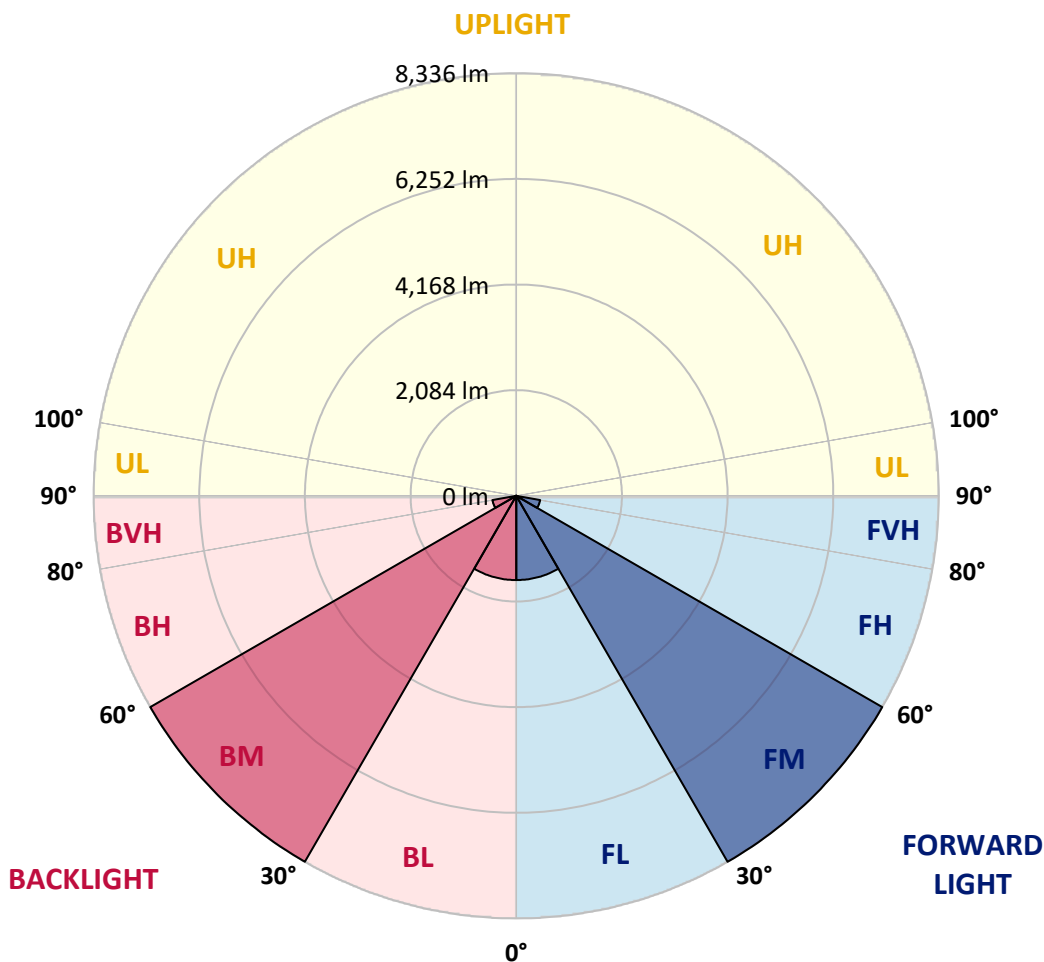
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1661.7	7.9			
FM (30°-60°)	8335.7	39.7			
FH (60°-80°)	477.3	2.3			G0/660
FVH (80°-90°)	14.4	0.1			G1/100
BL (0°-30°)	1661.7	7.9	B3/2500		
BM (30°-60°)	8335.7	39.7	B4/8500		
BH (60°-80°)	477.3	2.3	B1/500		G0/660
BVH (80°-90°)	14.4	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°	2908.4	2908.4	2908.4	2908.4	2908.4	2908.4	2908.4	2908.4	2908.4	2908.4	2908.4
2.5°	2897.8	2897.8	2894.3	2922.5	2908.4	2940.2	2936.6	2947.2	2957.8	2954.3	2982.5
5°	2873.1	2869.5	2869.5	2901.3	2933.1	2968.4	3000.1	3021.4	3056.6	3056.6	3091.9
7.5°	2897.8	2880.2	2904.9	2918.9	2979.0	3039.0	3091.9	3134.3	3215.5	3243.7	3233.1
10°	2904.9	2926.1	2943.7	2986.0	3060.2	3152.0	3197.9	3303.7	3395.5	3459.0	3473.2
12.5°	2950.7	2982.5	3031.9	3134.3	3201.4	3321.3	3384.9	3487.2	3614.3	3684.9	3734.3
15°	3039.0	3049.6	3113.1	3243.7	3388.4	3497.8	3596.6	3670.8	3794.3	3875.5	3879.1
17.5°	3152.0	3197.9	3286.0	3409.6	3561.4	3723.7	3801.4	3882.6	3928.5	4037.9	4062.6
20°	3377.9	3384.9	3469.6	3631.9	3822.5	3970.8	4027.3	4069.6	4051.9	4164.9	4186.1
22.5°	3589.6	3596.6	3702.6	3921.4	4126.1	4253.2	4277.8	4253.2	4200.2	4281.4	4288.5
25°	3804.9	3868.4	3946.1	4164.9	4419.0	4588.5	4592.0	4525.0	4415.5	4429.7	4464.9
27.5°	4140.2	4186.1	4267.3	4468.5	4747.3	4937.9	4906.1	4824.9	4683.7	4694.4	4683.7
30°	4532.0	4574.4	4641.4	4899.1	5103.8	5312.0	5357.9	5280.2	5068.5	5022.6	5075.6
32.5°	5004.9	5065.0	5188.5	5425.0	5597.9	5725.0	5756.8	5728.5	5530.9	5513.3	5548.5
35°	5580.3	5661.5	5774.4	5982.7	6123.8	6353.3	6353.3	6258.0	6078.0	6099.2	6095.6
37.5°	6187.3	6307.4	6483.9	6695.7	6886.3	7009.8	6971.0	6889.8	6709.8	6663.9	6709.8
40°	6949.8	7009.8	7232.2	7507.5	7740.4	7881.6	7715.7	7539.2	7108.6	7175.6	7299.2
42.5°	7645.1	7740.4	7909.8	8213.4	8478.1	8594.6	8396.9	8047.5	7528.6	7475.7	7567.5
45°	8238.1	8340.4	8562.8	8996.9	9275.8	9378.1	8940.5	8375.8	7782.8	7648.7	7687.5
47.5°	8633.4	8686.4	8996.9	9409.9	9664.0	9897.0	9268.7	8601.6	7902.7	7648.7	7634.5
50°	8481.6	8573.4	8936.9	9406.4	9868.8	10034.6	9434.6	8774.6	7941.6	7616.9	7574.5
52.5°	7532.1	7691.0	8096.9	8728.7	9427.6	10020.5	9664.0	8718.1	7927.5	7648.7	7712.2
55°	5241.5	5245.0	5739.2	6670.9	7906.3	9304.0	9328.7	8781.7	8019.3	7846.3	7849.8
57.5°	2107.1	2213.1	2590.7	3526.1	4666.1	6388.6	7595.7	8146.3	8029.8	7987.5	8096.9
60°	533.0	536.5	652.9	995.3	1641.2	2738.9	3977.9	5382.7	6198.0	6476.8	6515.7
62.5°	271.8	275.3	303.6	353.0	448.3	734.1	1306.0	2071.9	2947.2	3392.0	3508.4
65°	222.4	222.4	240.0	264.7	268.3	282.3	338.8	483.6	702.4	797.7	808.3
67.5°	169.4	169.4	183.5	197.6	204.8	201.2	194.1	201.2	243.5	232.9	225.9
70°	105.9	109.4	116.5	130.6	137.7	141.2	144.7	151.7	173.0	180.0	173.0
72.5°	63.5	63.5	67.0	77.7	88.2	95.3	105.9	112.9	123.6	141.2	137.7
75°	28.3	28.3	35.3	45.9	56.5	67.0	77.7	88.2	95.3	105.9	109.4
77.5°	7.0	10.6	17.6	31.8	42.4	56.5	70.6	81.2	88.2	88.2	84.7
80°	3.5	3.5	14.1	24.7	45.9	60.0	77.7	84.7	95.3	88.2	77.7
82.5°	3.5	3.5	14.1	24.7	42.4	60.0	81.2	91.8	98.8	88.2	74.2
85°	0.0	3.5	10.6	21.1	35.3	42.4	35.3	24.7	14.1	14.1	10.6
87.5°	0.0	0.0	3.5	3.5	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)