

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: P652051

Luminaire Tested: **GALN-SA8A-840-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652051
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-SA8A-840-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 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: 20070.5 lumens
Efficiency: N/A
Efficacy: 82.3 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

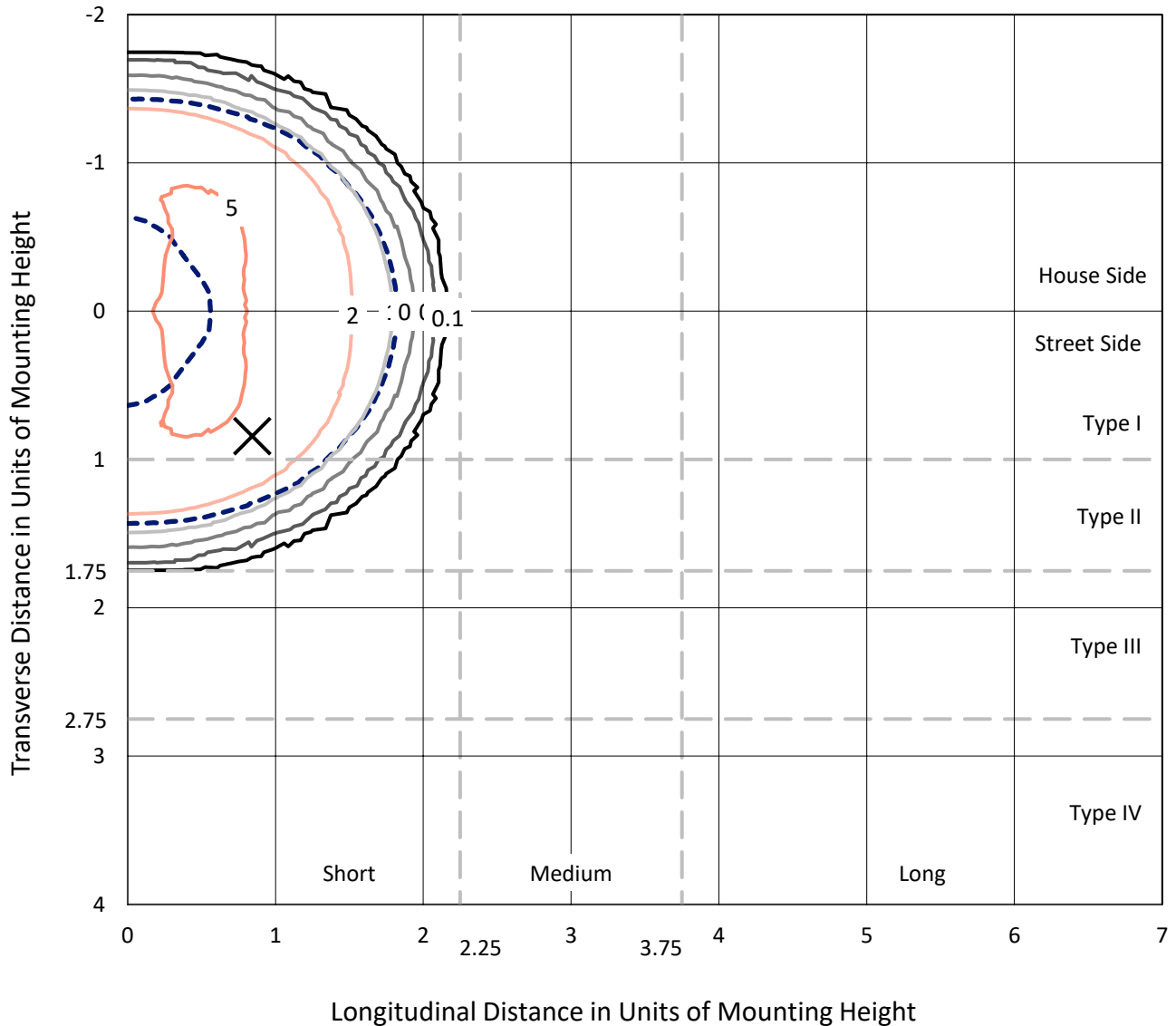
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

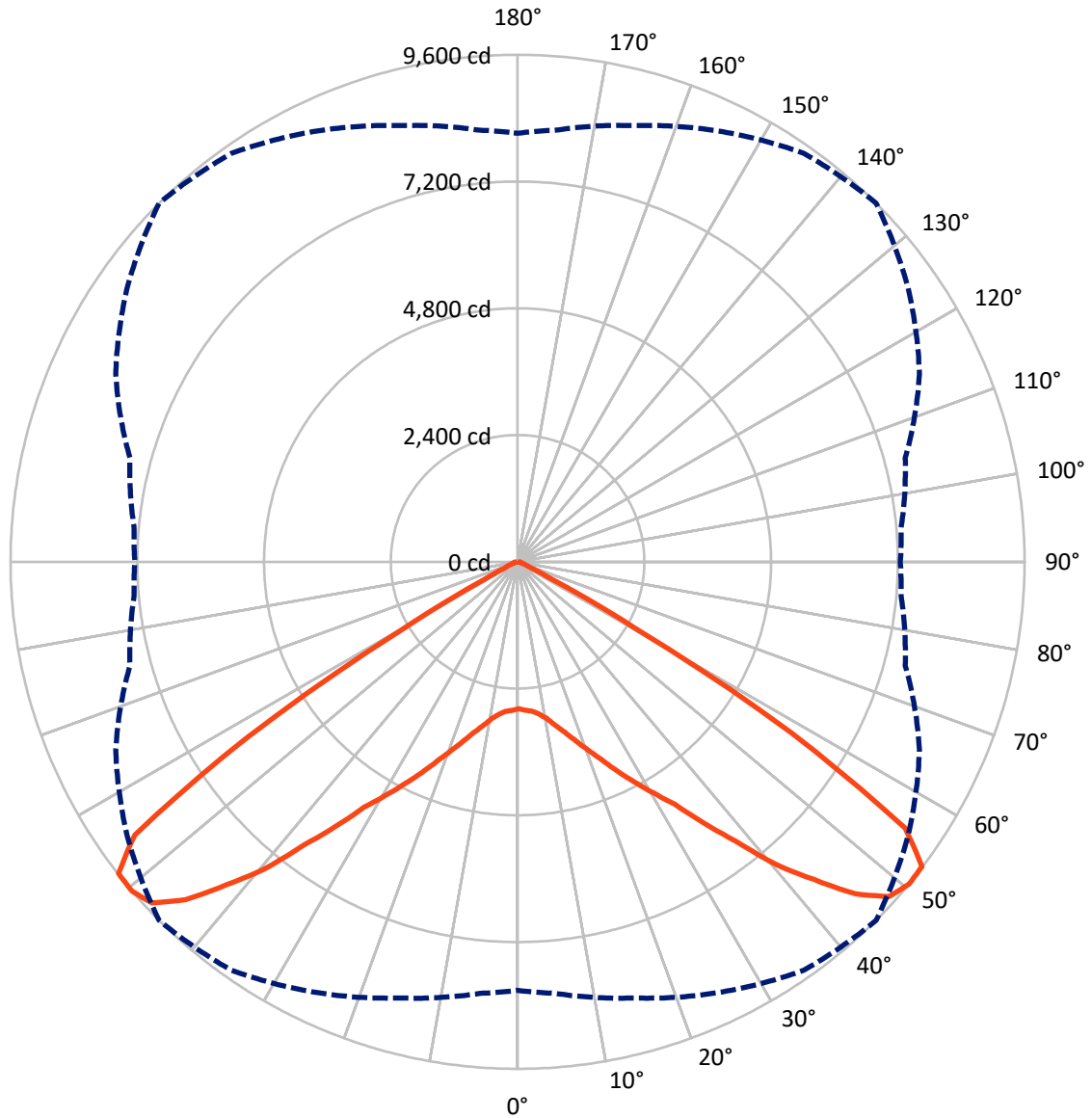
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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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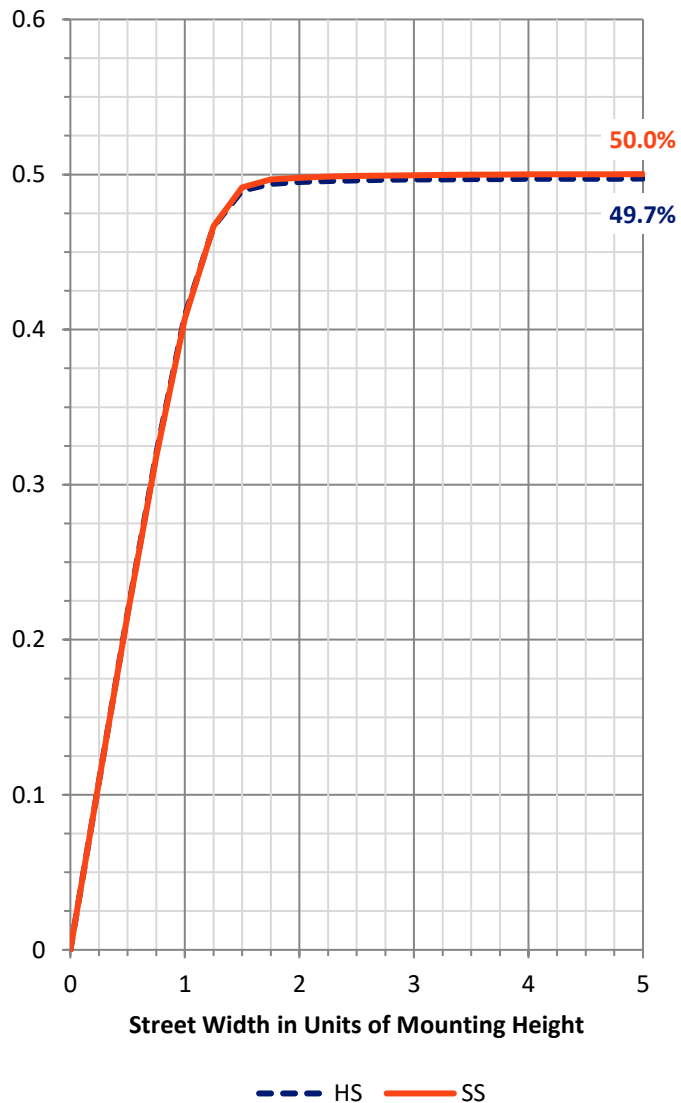
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10035.2	0.0	10035.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10035.2	0.0	10035.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	20070.5	0.0	20070.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.8	1.4
10°-20°	954.1	4.8
20°-30°	1948.6	9.7
30°-40°	3716.0	18.5
40°-50°	6262.0	31.2
50°-60°	5972.0	29.8
60°-70°	833.7	4.2
70°-80°	79.7	0.4
80°-90°	27.5	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°	20070.5	100.0
0°-180°	20070.5	100.0

Coefficient of Utilization



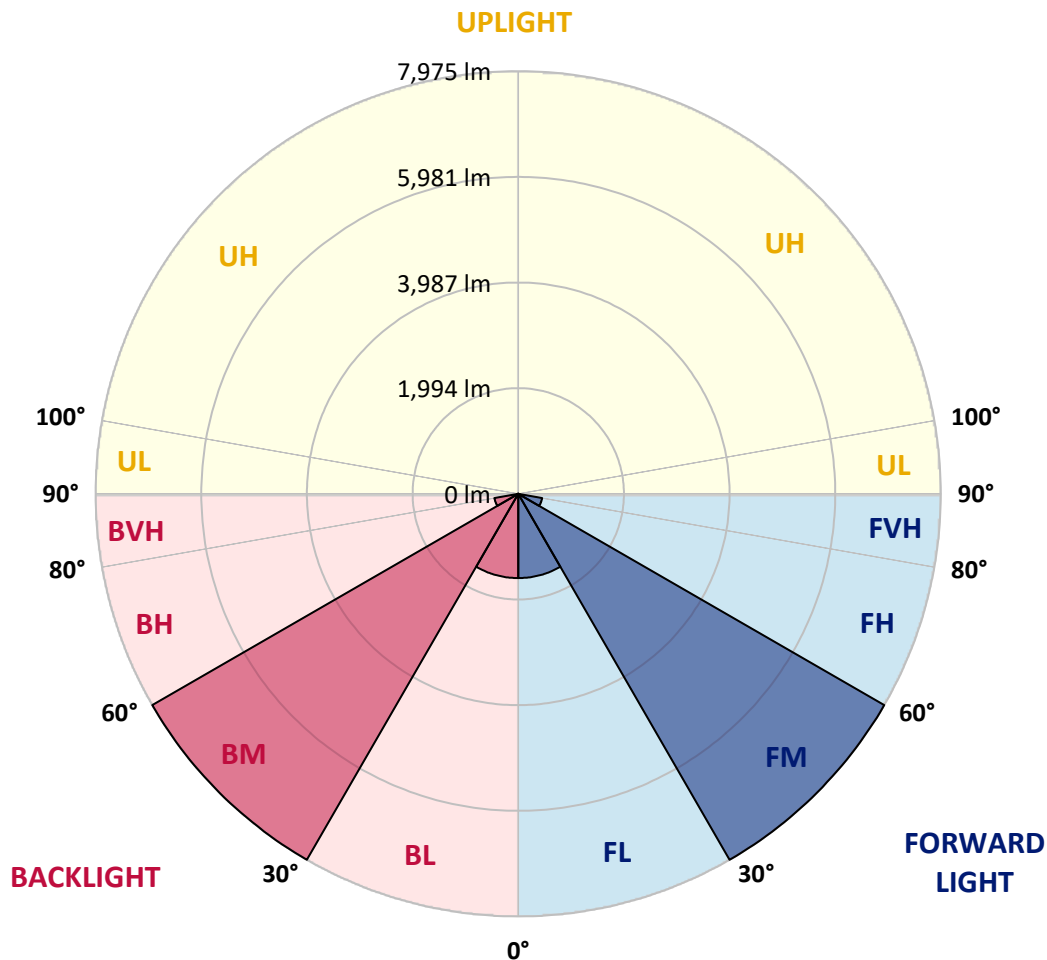
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1589.8	7.9			
FM (30°-60°)	7975.0	39.7			
FH (60°-80°)	456.7	2.3			G0/660
FVH (80°-90°)	13.8	0.1			G1/100
BL (0°-30°)	1589.8	7.9	B3/2500		
BM (30°-60°)	7975.0	39.7	B4/8500		
BH (60°-80°)	456.7	2.3	B1/500		G0/660
BVH (80°-90°)	13.8	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°	2782.5	2782.5	2782.5	2782.5	2782.5	2782.5	2782.5	2782.5	2782.5	2782.5	2782.5
2.5°	2772.4	2772.4	2769.1	2796.1	2782.5	2813.0	2809.5	2819.7	2829.8	2826.4	2853.4
5°	2748.8	2745.4	2745.4	2775.8	2806.2	2840.0	2870.3	2890.6	2924.4	2924.4	2958.1
7.5°	2772.4	2755.5	2779.2	2792.7	2850.1	2907.5	2958.1	2998.7	3076.4	3103.4	3093.2
10°	2779.2	2799.4	2816.3	2856.9	2927.8	3015.6	3059.5	3160.7	3248.5	3309.3	3322.9
12.5°	2823.1	2853.4	2900.8	2998.7	3062.8	3177.6	3238.4	3336.3	3457.9	3525.5	3572.7
15°	2907.5	2917.6	2978.4	3103.4	3241.8	3346.5	3441.0	3511.9	3630.2	3707.8	3711.2
17.5°	3015.6	3059.5	3143.9	3262.1	3407.3	3562.6	3636.9	3714.5	3758.4	3863.1	3886.8
20°	3231.7	3238.4	3319.5	3474.8	3657.2	3799.0	3853.0	3893.6	3876.7	3984.7	4005.0
22.5°	3434.3	3441.0	3542.4	3751.7	3947.6	4069.2	4092.8	4069.2	4018.5	4096.2	4102.9
25°	3640.3	3701.1	3775.3	3984.7	4227.9	4389.9	4393.3	4329.1	4224.5	4238.0	4271.8
27.5°	3961.1	4005.0	4082.6	4275.1	4541.9	4724.2	4693.9	4616.2	4481.1	4491.3	4481.1
30°	4335.9	4376.4	4440.6	4687.1	4882.9	5082.2	5126.1	5051.8	4849.2	4805.3	4855.9
32.5°	4788.4	4845.8	4964.0	5190.2	5355.7	5477.3	5507.7	5480.7	5291.6	5274.7	5308.5
35°	5338.8	5416.5	5524.6	5723.8	5858.9	6078.4	6078.4	5987.2	5815.0	5835.3	5831.8
37.5°	5919.6	6034.5	6203.3	6406.0	6588.3	6706.5	6669.3	6591.7	6419.4	6375.5	6419.4
40°	6649.1	6706.5	6919.2	7182.6	7405.5	7540.6	7381.9	7213.0	6801.0	6865.2	6983.4
42.5°	7314.3	7405.5	7567.6	7858.0	8111.3	8222.7	8033.6	7699.3	7202.9	7152.2	7240.0
45°	7881.6	7979.6	8192.3	8607.6	8874.4	8972.4	8553.6	8013.3	7446.0	7317.7	7354.9
47.5°	8259.9	8310.5	8607.6	9002.7	9245.9	9468.7	8867.7	8229.4	7560.8	7317.7	7304.2
50°	8114.6	8202.4	8550.3	8999.4	9441.7	9600.4	9026.4	8394.9	7598.0	7287.3	7246.8
52.5°	7206.3	7358.2	7746.5	8351.0	9019.6	9587.0	9245.9	8340.9	7584.5	7317.7	7378.5
55°	5014.6	5018.1	5490.8	6382.3	7564.2	8901.5	8925.1	8401.7	7672.3	7506.8	7510.2
57.5°	2016.0	2117.3	2478.6	3373.5	4464.2	6112.1	7267.1	7793.8	7682.4	7641.9	7746.5
60°	509.9	513.3	624.7	952.3	1570.2	2620.5	3805.8	5149.8	5929.8	6196.6	6233.7
62.5°	260.0	263.4	290.4	337.7	428.8	702.4	1249.5	1982.2	2819.7	3245.2	3356.6
65°	212.8	212.8	229.6	253.2	256.7	270.1	324.2	462.6	672.0	763.2	773.3
67.5°	162.1	162.1	175.6	189.1	195.9	192.5	185.7	192.5	233.0	222.9	216.1
70°	101.3	104.7	111.4	125.0	131.7	135.1	138.4	145.2	165.5	172.2	165.5
72.5°	60.8	60.8	64.2	74.3	84.4	91.2	101.3	108.1	118.2	135.1	131.7
75°	27.0	27.0	33.8	43.9	54.0	64.2	74.3	84.4	91.2	101.3	104.7
77.5°	6.7	10.1	16.9	30.4	40.5	54.0	67.5	77.7	84.4	84.4	81.1
80°	3.4	3.4	13.5	23.6	43.9	57.4	74.3	81.1	91.2	84.4	74.3
82.5°	3.4	3.4	13.5	23.6	40.5	57.4	77.7	87.8	94.5	84.4	70.9
85°	0.0	3.4	10.1	20.3	33.8	40.5	33.8	23.6	13.5	13.5	10.1
87.5°	0.0	0.0	3.4	3.4	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)