

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: P648641

Luminaire Tested: **GALN-SA9B-835-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648641
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-SA9B-835-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 800mA 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: 26102.9 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

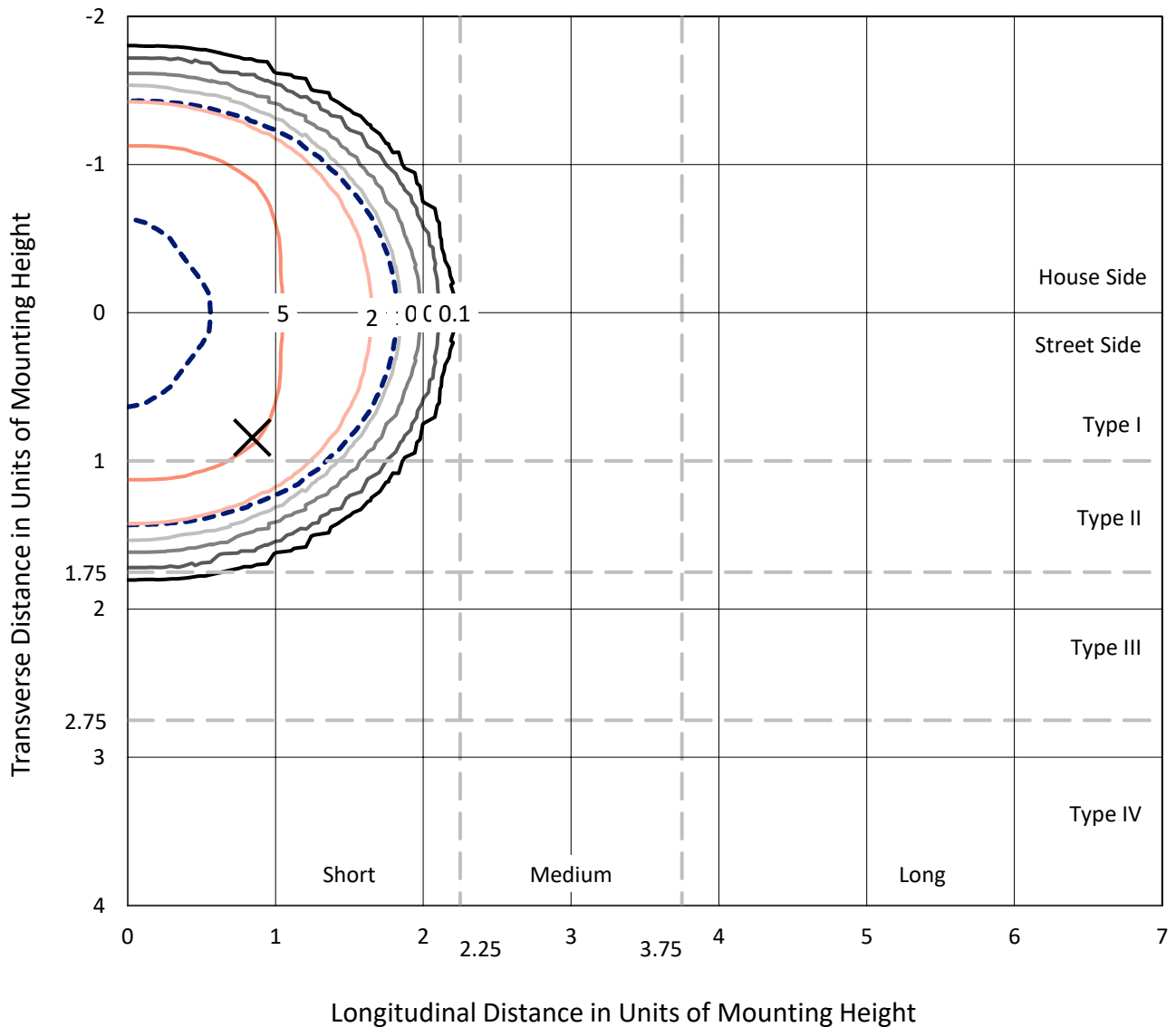
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

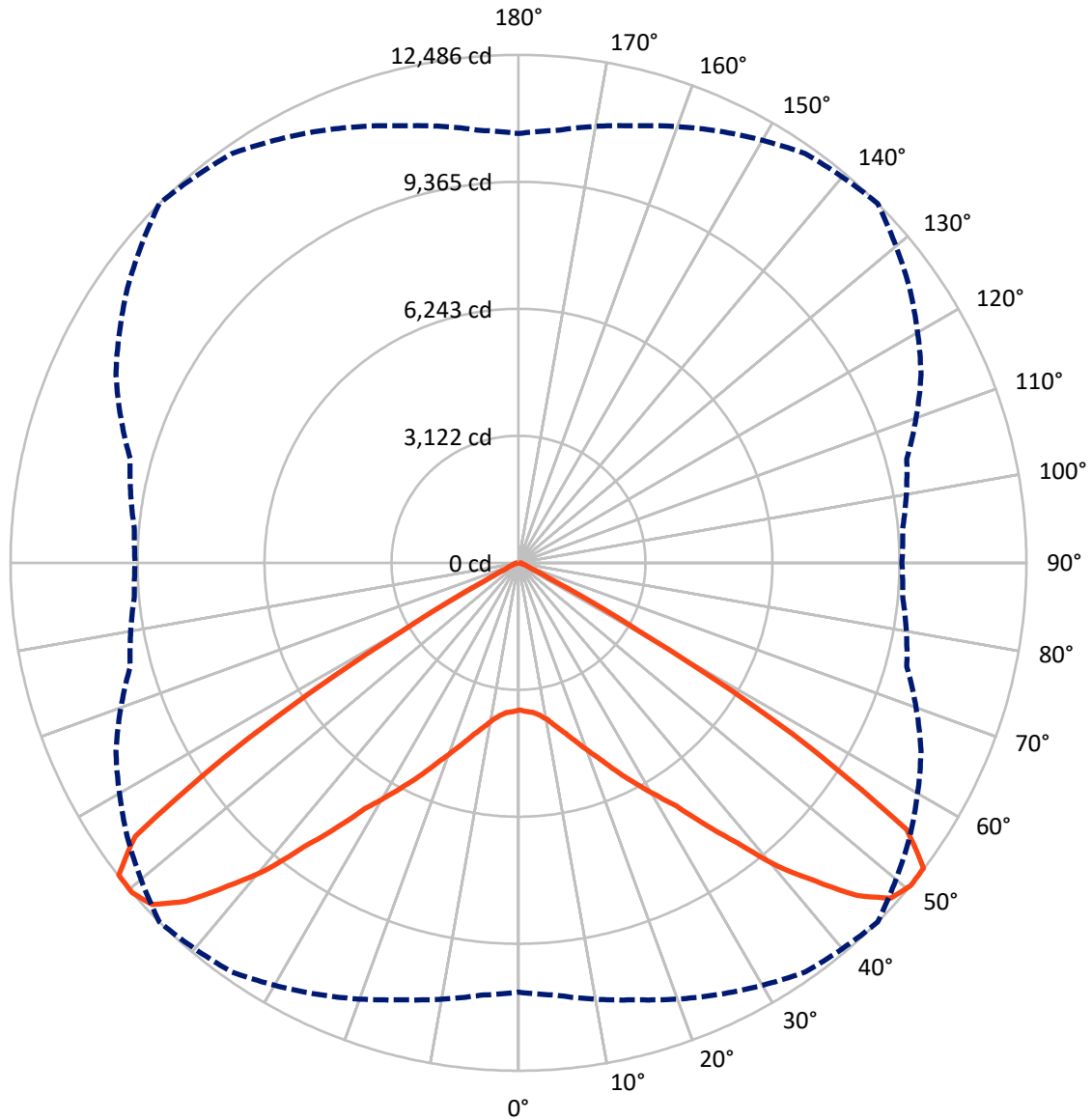
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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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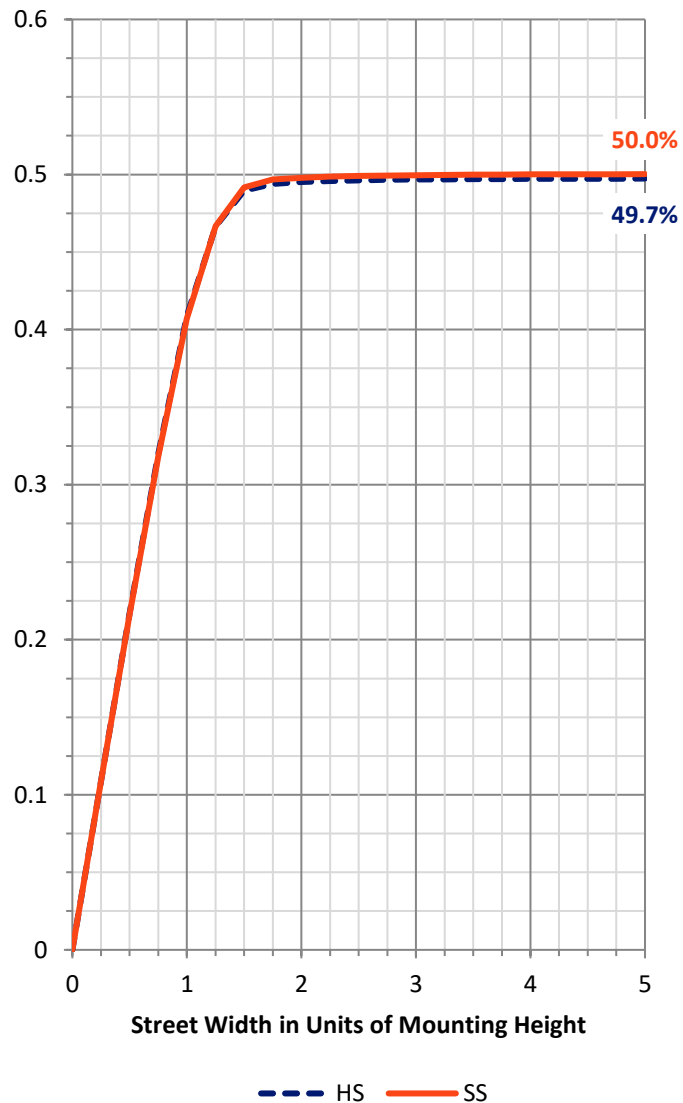
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13051.4	0.0	13051.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13051.4	0.0	13051.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	26102.9	0.0	26102.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.0	1.4
10°-20°	1240.8	4.8
20°-30°	2534.3	9.7
30°-40°	4832.9	18.5
40°-50°	8144.2	31.2
50°-60°	7766.9	29.8
60°-70°	1084.2	4.2
70°-80°	103.7	0.4
80°-90°	35.8	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°	26102.9	100.0
0°-180°	26102.9	100.0

Coefficient of Utilization



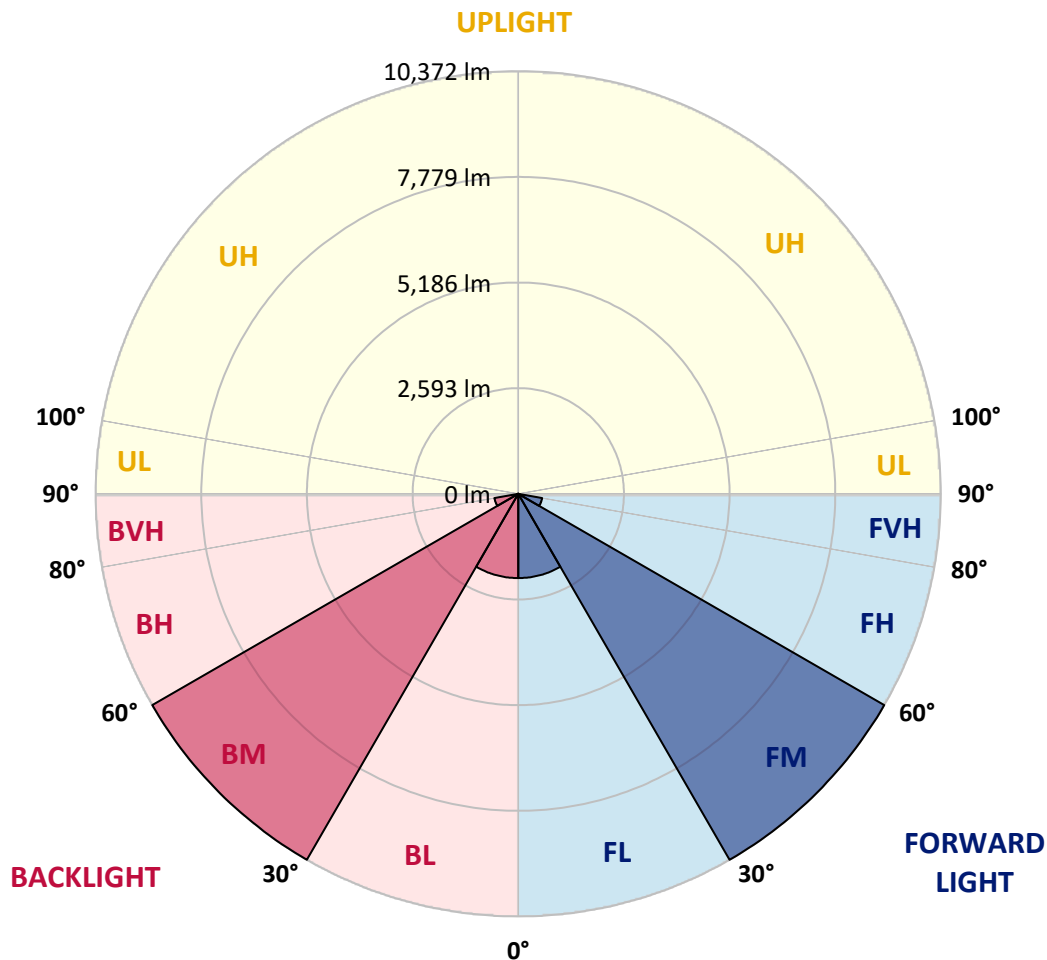
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2067.6	7.9			
FM (30°-60°)	10372.0	39.7			
FH (60°-80°)	594.0	2.3			G0/660
FVH (80°-90°)	17.9	0.1			G1/100
BL (0°-30°)	2067.6	7.9	B3/2500		
BM (30°-60°)	10372.0	39.7	B5		
BH (60°-80°)	594.0	2.3	B2/1000		G0/660
BVH (80°-90°)	17.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3618.9	3618.9	3618.9	3618.9	3618.9	3618.9	3618.9	3618.9	3618.9	3618.9	3618.9
2.5°	3605.7	3605.7	3601.3	3636.4	3618.9	3658.4	3654.0	3667.2	3680.3	3676.0	3711.1
5°	3574.9	3570.6	3570.6	3610.1	3649.6	3693.6	3733.0	3759.4	3803.3	3803.3	3847.3
7.5°	3605.7	3583.7	3614.5	3632.0	3706.7	3781.3	3847.3	3900.0	4001.0	4036.1	4022.9
10°	3614.5	3640.9	3662.8	3715.5	3807.7	3921.9	3979.0	4110.8	4224.9	4304.0	4321.5
12.5°	3671.6	3711.1	3772.6	3900.0	3983.4	4132.8	4211.8	4339.2	4497.2	4585.1	4646.6
15°	3781.3	3794.6	3873.6	4036.1	4216.1	4352.3	4475.3	4567.6	4721.3	4822.3	4826.6
17.5°	3921.9	3979.0	4088.8	4242.5	4431.4	4633.4	4730.0	4831.0	4888.1	5024.3	5055.0
20°	4203.0	4211.8	4317.1	4519.2	4756.3	4940.8	5011.1	5063.8	5041.8	5182.4	5208.8
22.5°	4466.5	4475.3	4607.0	4879.3	5134.1	5292.1	5322.9	5292.1	5226.3	5327.3	5336.1
25°	4734.4	4813.5	4910.1	5182.4	5498.6	5709.4	5713.8	5630.3	5494.2	5511.8	5555.7
27.5°	5151.6	5208.8	5309.8	5560.1	5907.0	6144.2	6104.7	6003.7	5827.9	5841.2	5827.9
30°	5639.1	5691.9	5775.3	6095.9	6350.6	6609.7	6666.8	6570.2	6306.7	6249.6	6315.4
32.5°	6227.6	6302.3	6456.0	6750.2	6965.5	7123.6	7163.1	7128.0	6882.0	6860.0	6903.9
35°	6943.5	7044.5	7185.0	7444.1	7619.8	7905.3	7905.3	7786.7	7562.8	7589.1	7584.7
37.5°	7698.9	7848.2	8067.8	8331.4	8568.4	8722.2	8673.9	8572.8	8348.9	8291.8	8348.9
40°	8647.5	8722.2	8998.9	9341.4	9631.3	9807.0	9600.6	9381.0	8845.2	8928.6	9082.3
42.5°	9512.7	9631.3	9842.1	10219.8	10549.2	10694.1	10448.2	10013.4	9367.8	9301.9	9416.1
45°	10250.6	10377.9	10654.6	11194.8	11541.7	11669.1	11124.6	10421.8	9684.0	9517.1	9565.4
47.5°	10742.4	10808.3	11194.8	11708.7	12024.8	12314.7	11533.0	10702.9	9833.3	9517.1	9499.5
50°	10553.6	10667.7	11120.2	11704.3	12279.6	12486.0	11739.4	10918.2	9881.6	9477.6	9424.9
52.5°	9372.2	9569.8	10074.9	10861.0	11730.6	12468.4	12024.8	10847.8	9864.1	9517.1	9596.1
55°	6521.9	6526.3	7141.1	8300.6	9837.7	11576.9	11607.7	10926.9	9978.2	9763.1	9767.5
57.5°	2622.0	2753.7	3223.6	4387.5	5806.0	7949.3	9451.2	10136.4	9991.5	9938.7	10074.9
60°	663.2	667.6	812.5	1238.5	2042.2	3408.1	4949.6	6697.5	7712.1	8059.0	8107.3
62.5°	338.2	342.6	377.7	439.2	557.7	913.5	1625.0	2578.0	3667.2	4220.5	4365.5
65°	276.7	276.7	298.6	329.4	333.8	351.3	421.6	601.7	874.0	992.5	1005.8
67.5°	210.8	210.8	228.4	245.9	254.7	250.3	241.6	250.3	303.0	289.9	281.1
70°	131.8	136.2	144.9	162.5	171.3	175.7	180.1	188.9	215.2	224.0	215.2
72.5°	79.1	79.1	83.5	96.6	109.8	118.5	131.8	140.5	153.7	175.7	171.3
75°	35.2	35.2	43.9	57.1	70.2	83.5	96.6	109.8	118.5	131.8	136.2
77.5°	8.8	13.2	21.9	39.5	52.7	70.2	87.9	101.0	109.8	109.8	105.4
80°	4.4	4.4	17.5	30.8	57.1	74.7	96.6	105.4	118.5	109.8	96.6
82.5°	4.4	4.4	17.5	30.8	52.7	74.7	101.0	114.2	123.0	109.8	92.2
85°	0.0	4.4	13.2	26.4	43.9	52.7	43.9	30.8	17.5	17.5	13.2
87.5°	0.0	0.0	4.4	4.4	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)