

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: P648423

Luminaire Tested: **GALN-SA5B-835-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648423
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-835-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23020.2 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

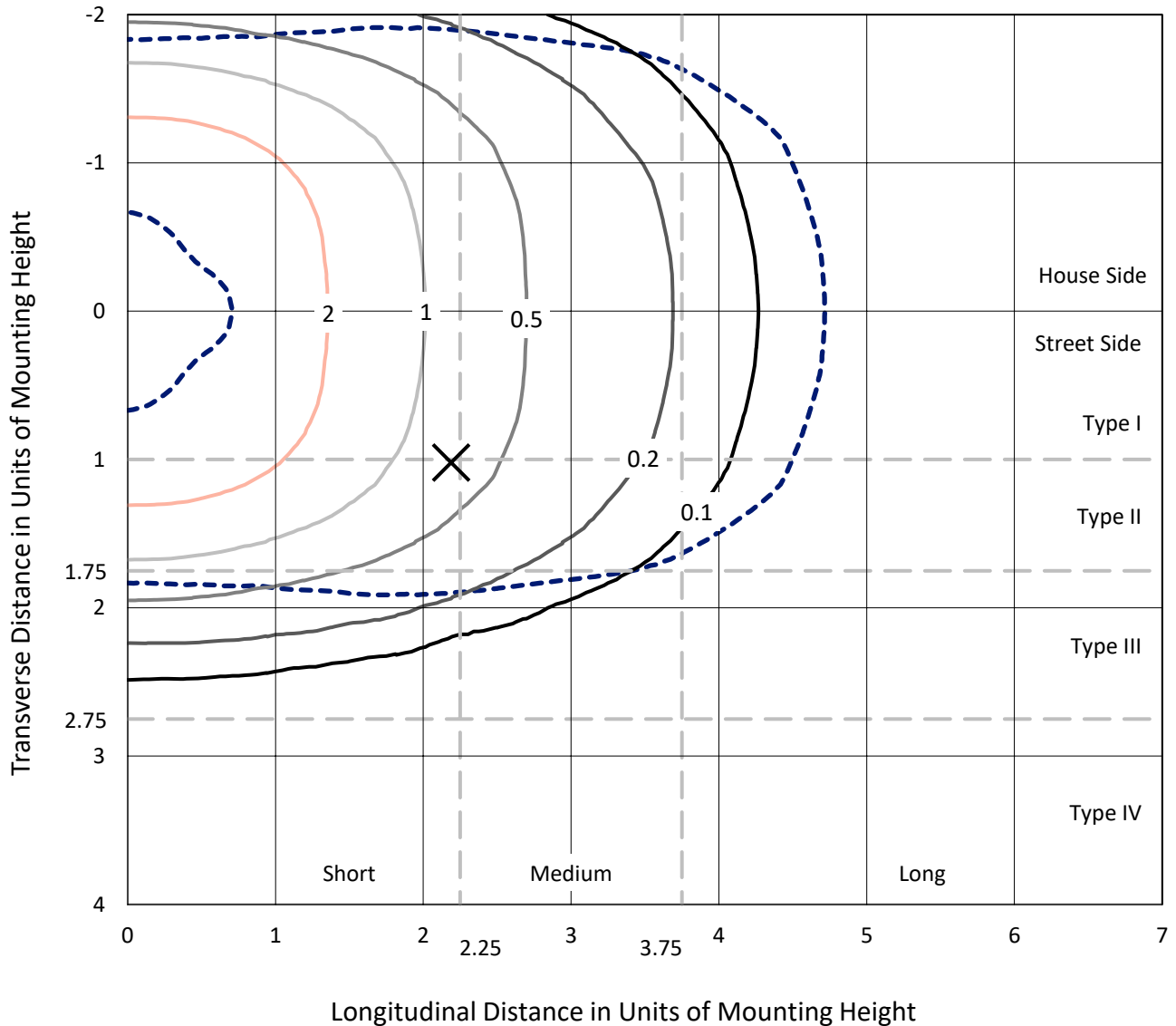
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

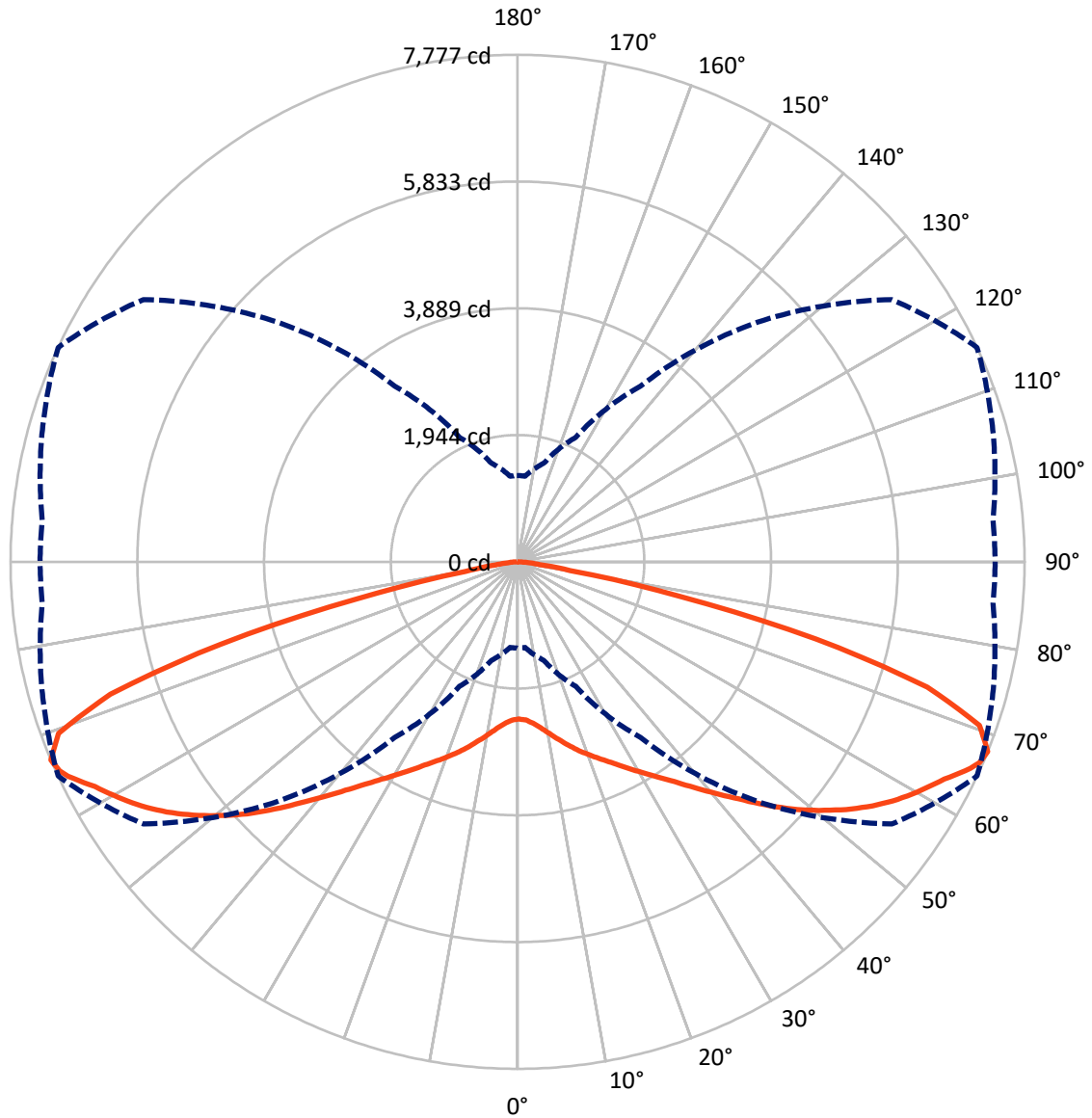
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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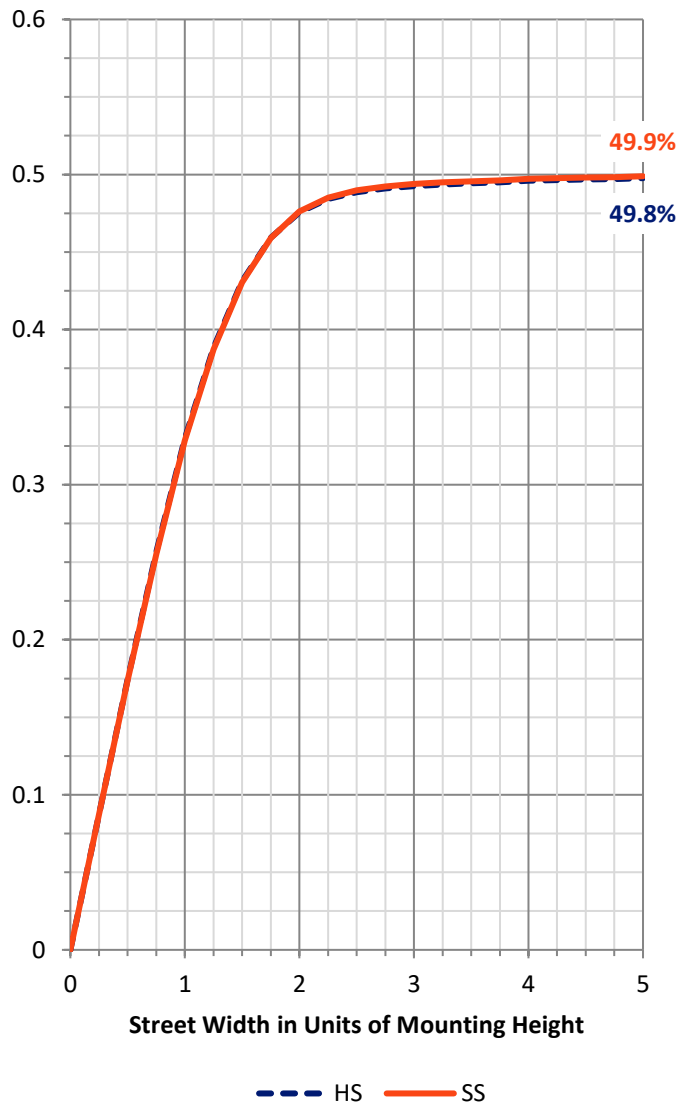
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11510.1	0.0	11510.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11510.1	0.0	11510.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	23020.2	0.0	23020.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.8	1.0
10°-20°	795.9	3.5
20°-30°	1556.9	6.8
30°-40°	2648.0	11.5
40°-50°	4191.0	18.2
50°-60°	5557.2	24.1
60°-70°	5242.2	22.8
70°-80°	2591.5	11.3
80°-90°	199.7	0.9
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°	23020.2	100.0
0°-180°	23020.2	100.0

Coefficient of Utilization



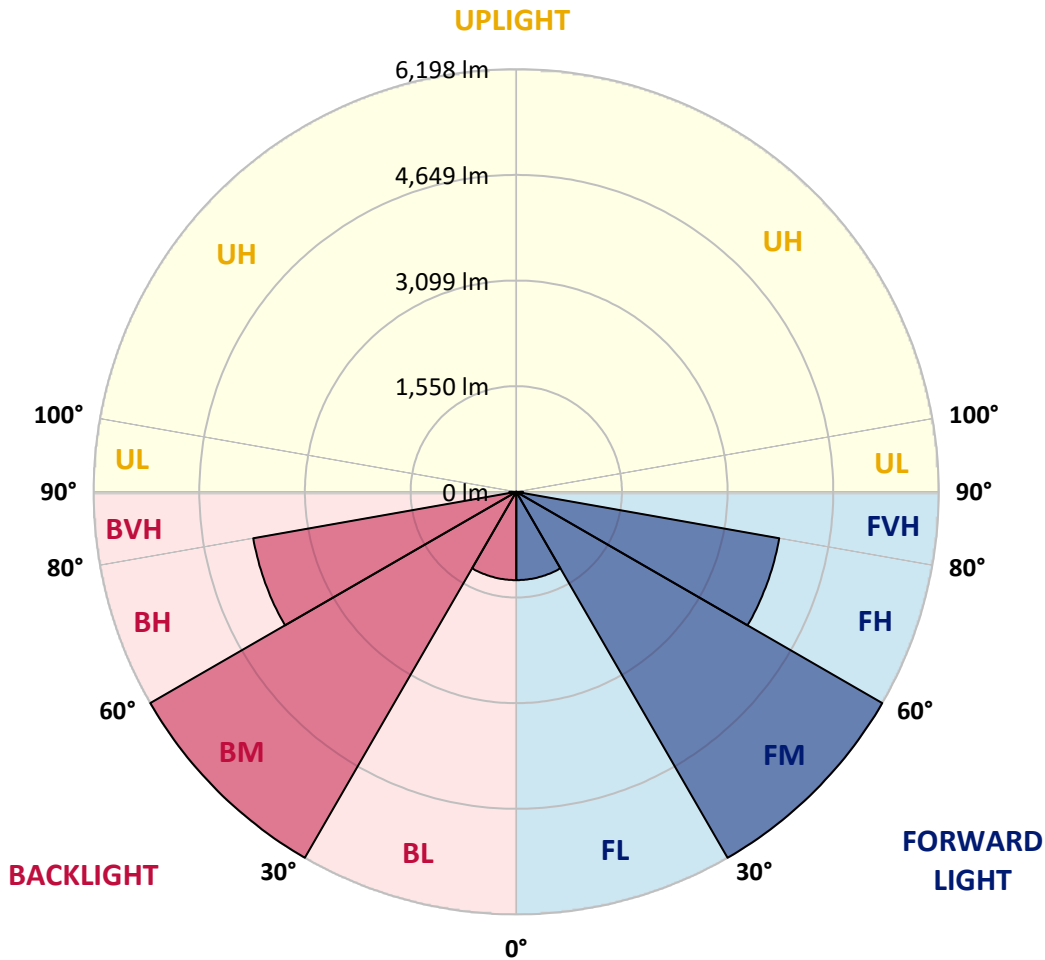
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1295.3	5.6			
FM (30°-60°)	6198.1	26.9			
FH (60°-80°)	3916.8	17.0			G2/5000
FVH (80°-90°)	99.9	0.4			G1/100
BL (0°-30°)	1295.3	5.6	B3/2500		
BM (30°-60°)	6198.1	26.9	B4/8500		
BH (60°-80°)	3916.8	17.0	B4/5000		G4/5000
BVH (80°-90°)	99.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2411.2	2411.2	2411.2	2411.2	2411.2	2411.2	2411.2	2411.2	2411.2	2411.2	2411.2
2.5°	2398.8	2401.3	2403.7	2407.5	2412.4	2419.8	2424.7	2428.4	2438.3	2439.5	2438.3
5°	2390.2	2392.7	2398.8	2409.9	2426.0	2448.1	2465.4	2486.4	2502.5	2513.5	2511.1
7.5°	2388.9	2393.9	2403.7	2427.2	2458.0	2496.3	2535.7	2571.5	2602.3	2627.0	2623.3
10°	2408.7	2414.9	2430.9	2465.4	2513.5	2569.0	2624.5	2677.5	2721.9	2754.0	2765.2
12.5°	2442.0	2447.0	2476.6	2528.3	2597.4	2666.4	2729.4	2794.8	2856.4	2910.6	2910.6
15°	2500.0	2508.6	2545.6	2620.9	2705.9	2786.1	2850.2	2919.3	2985.9	3047.6	3066.1
17.5°	2580.1	2592.4	2647.9	2744.2	2852.7	2926.7	2987.1	3043.8	3101.9	3161.0	3169.7
20°	2689.9	2702.2	2776.2	2892.2	3020.4	3109.2	3149.9	3163.5	3191.9	3248.6	3256.0
22.5°	2839.2	2851.5	2934.1	3064.8	3207.9	3304.1	3321.3	3289.3	3281.9	3326.3	3331.2
25°	3008.1	3019.2	3114.1	3254.8	3402.8	3507.6	3502.7	3423.7	3379.3	3406.4	3413.9
27.5°	3198.0	3214.1	3310.3	3455.8	3616.1	3708.6	3693.8	3579.1	3484.2	3479.3	3481.7
30°	3441.0	3458.3	3549.5	3688.9	3846.7	3931.8	3901.1	3746.9	3600.1	3550.7	3550.7
32.5°	3697.6	3740.7	3833.2	3978.7	4102.1	4163.8	4116.9	3931.8	3737.0	3668.0	3664.2
35°	4031.7	4055.2	4146.5	4288.3	4380.8	4428.9	4338.8	4140.3	3915.9	3834.4	3823.3
37.5°	4358.6	4378.3	4484.4	4620.1	4732.3	4729.8	4607.7	4388.2	4137.8	4046.5	4039.2
40°	4692.8	4713.8	4834.6	4959.2	5071.5	5061.6	4913.6	4668.2	4401.8	4299.4	4319.1
42.5°	4982.6	5006.1	5143.0	5320.6	5421.7	5419.2	5247.8	4971.6	4694.1	4602.8	4620.1
45°	5246.6	5267.6	5426.7	5630.2	5778.1	5796.6	5609.2	5316.9	5032.0	4914.8	4919.7
47.5°	5432.8	5472.3	5638.8	5871.9	6072.9	6138.3	5954.6	5668.4	5340.3	5218.2	5225.7
50°	5574.6	5599.3	5780.7	6045.8	6299.9	6435.6	6287.5	5994.0	5648.6	5519.1	5536.4
52.5°	5592.0	5621.5	5818.9	6124.7	6450.4	6656.3	6583.5	6312.2	5963.2	5830.0	5866.9
55°	5451.3	5468.6	5704.2	6075.4	6509.5	6820.3	6838.8	6608.2	6262.8	6161.7	6186.4
57.5°	5050.5	5094.9	5393.4	5844.8	6428.1	6907.9	7030.0	6877.1	6566.2	6466.3	6505.8
60°	4393.1	4437.5	4737.2	5309.5	6121.0	6867.2	7187.9	7115.1	6841.3	6761.1	6782.1
62.5°	3442.2	3438.5	3809.8	4511.5	5510.5	6667.4	7305.0	7344.5	7112.6	7011.5	7043.6
65°	2231.1	2242.2	2601.1	3357.1	4589.2	6159.2	7330.9	7636.8	7379.0	7226.1	7249.5
66°	1794.5	1827.8	2132.4	2829.3	4119.4	5826.2	7253.2	7723.1	7460.4	7275.4	7286.5
67.5°	1324.6	1318.4	1568.8	2106.5	3289.3	5193.6	7010.3	7777.4	7552.9	7319.8	7324.7
70°	756.1	754.8	843.6	1156.9	1933.9	3656.8	5908.9	7517.2	7740.4	7480.2	7466.6
72.5°	552.6	548.8	561.2	638.8	943.5	1846.3	4076.1	6569.9	7644.2	7454.2	7416.0
75°	463.8	461.3	458.8	468.7	529.1	836.2	2163.3	4726.1	6632.9	6996.7	6957.2
77.5°	378.7	378.7	379.8	377.4	379.8	440.3	896.6	2533.2	4039.2	4509.1	4618.8
80°	296.0	294.8	315.7	307.1	287.4	282.4	397.1	815.3	1340.7	1333.2	1100.1
82.5°	218.3	203.5	240.5	234.4	212.1	180.1	231.8	347.8	447.7	291.0	215.8
85°	138.1	136.9	170.2	155.4	129.5	85.1	111.0	149.2	185.0	112.2	91.3
87.5°	24.7	23.4	54.3	39.5	39.5	24.7	30.9	40.7	60.4	42.0	30.9
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)