

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: P652314

Luminaire Tested: **GALN-SA4B-840-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-840-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16709.8 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

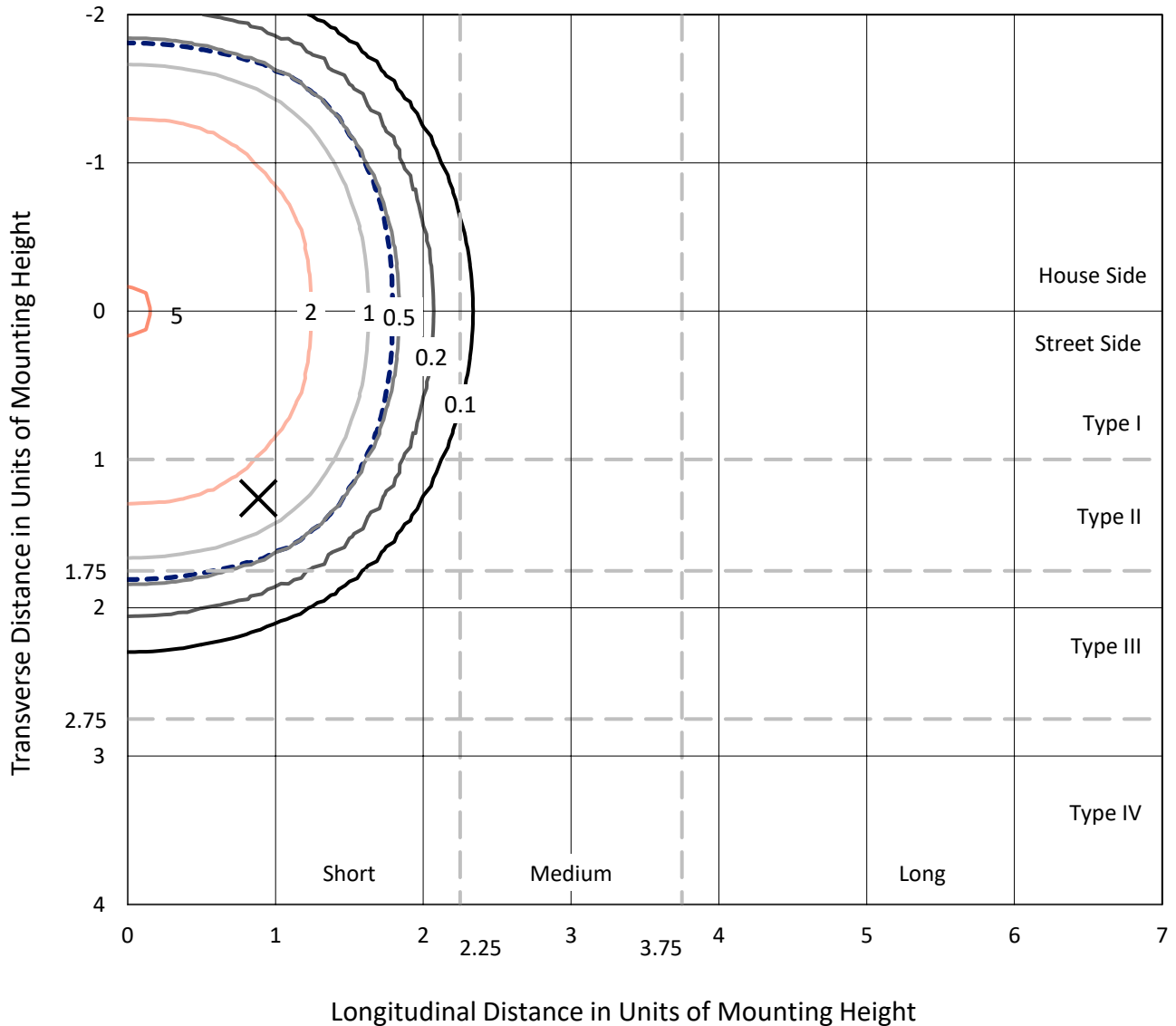
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

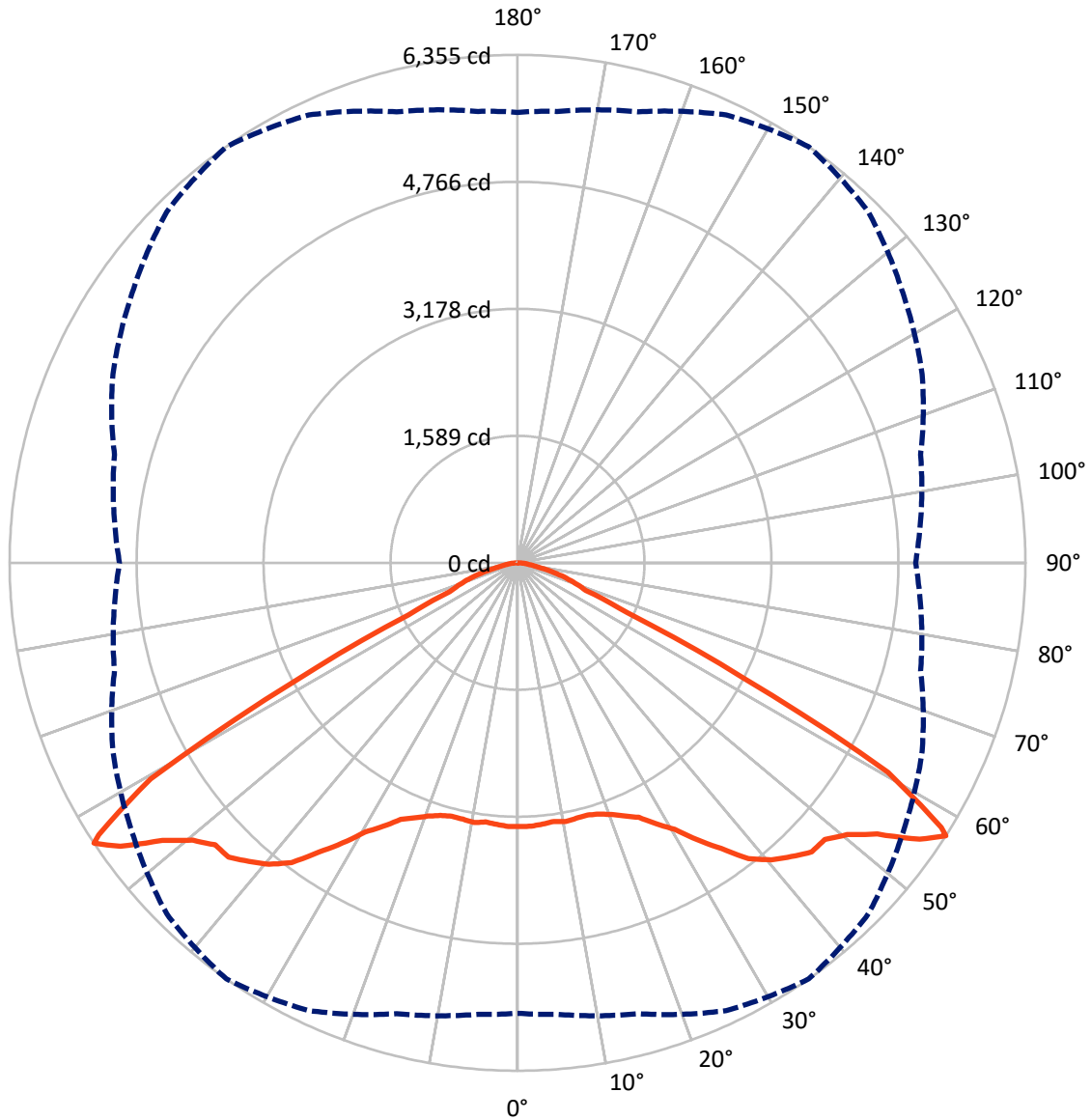
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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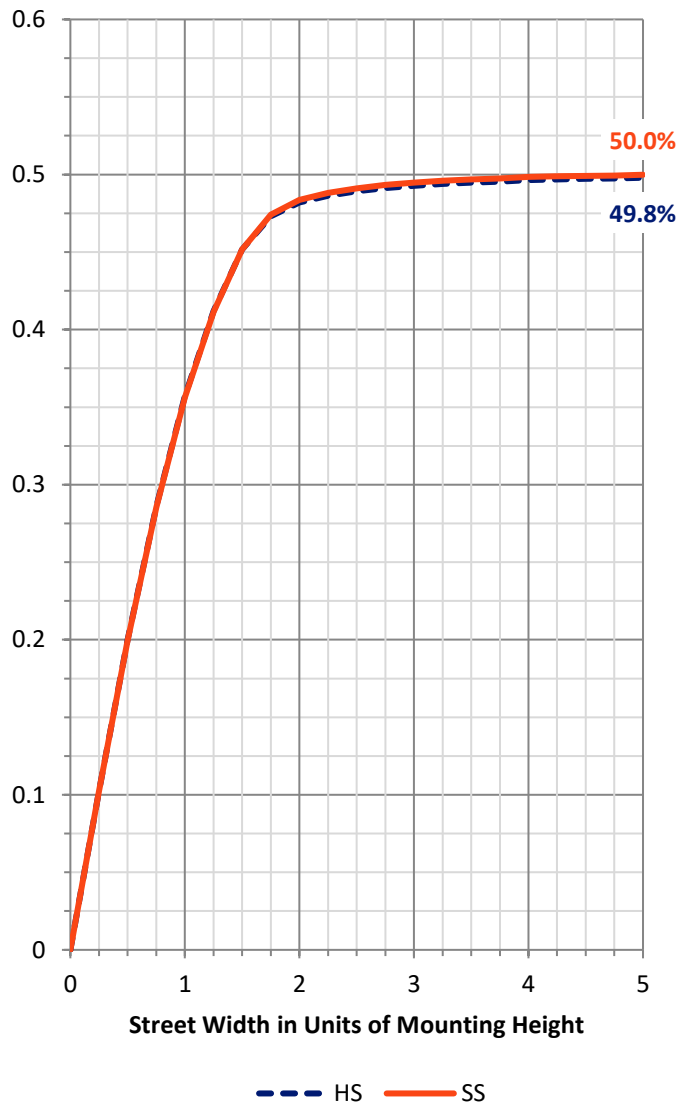
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8354.9	0.0	8354.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8354.9	0.0	8354.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	16709.8	0.0	16709.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.9	1.9
10°-20°	926.6	5.5
20°-30°	1618.3	9.7
30°-40°	2651.6	15.9
40°-50°	3887.9	23.3
50°-60°	4897.1	29.3
60°-70°	1841.8	11.0
70°-80°	489.7	2.9
80°-90°	84.0	0.5
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°	16709.8	100.0
0°-180°	16709.8	100.0

Coefficient of Utilization



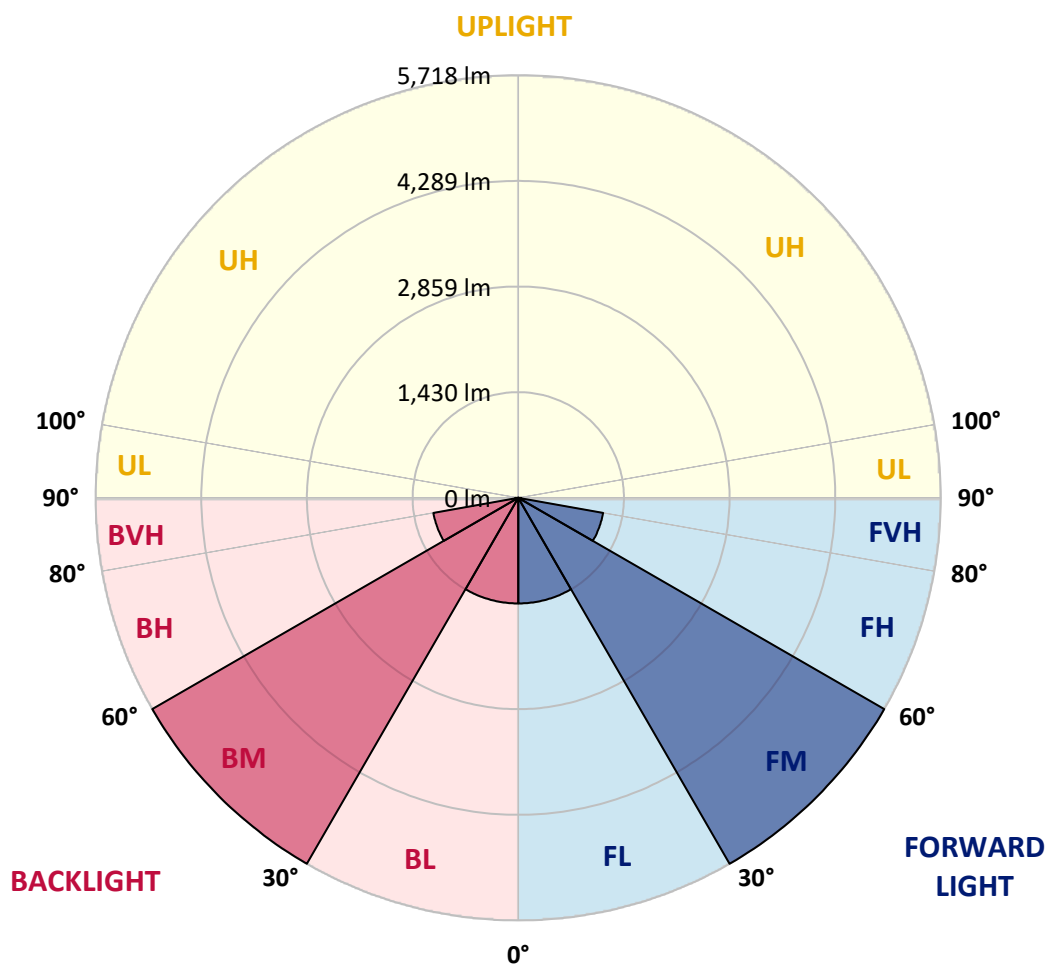
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1428.9	8.6			
FM (30°-60°)	5718.3	34.2			
FH (60°-80°)	1165.7	7.0			G1/1800
FVH (80°-90°)	42.0	0.3			G1/100
BL (0°-30°)	1428.9	8.6	B3/2500		
BM (30°-60°)	5718.3	34.2	B4/8500		
BH (60°-80°)	1165.7	7.0	B3/2500		G1/1800
BVH (80°-90°)	42.0	0.3			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°	3300.1	3300.1	3300.1	3300.1	3300.1	3300.1	3300.1	3300.1	3300.1	3300.1	3300.1
2.5°	3283.6	3316.6	3302.1	3293.9	3300.1	3289.7	3273.3	3291.8	3287.7	3271.2	3265.1
5°	3275.4	3300.1	3283.6	3300.1	3283.6	3312.4	3304.2	3273.3	3310.3	3275.4	3287.7
7.5°	3269.2	3277.5	3281.6	3273.3	3267.1	3302.1	3283.6	3269.2	3248.6	3242.4	3252.7
10°	3254.8	3275.4	3244.5	3285.6	3293.9	3269.2	3269.2	3242.4	3226.0	3215.6	3250.6
12.5°	3291.8	3256.9	3252.7	3273.3	3279.5	3289.7	3261.0	3246.5	3215.6	3219.8	3213.6
15°	3248.6	3263.0	3265.1	3269.2	3275.4	3300.1	3273.3	3242.4	3230.1	3186.8	3190.9
17.5°	3265.1	3250.6	3265.1	3312.4	3304.2	3322.7	3293.9	3246.5	3217.8	3193.0	3226.0
20°	3293.9	3287.7	3293.9	3351.6	3361.8	3378.3	3353.6	3310.3	3254.8	3226.0	3242.4
22.5°	3324.8	3320.7	3324.8	3380.3	3440.0	3460.6	3435.9	3335.1	3306.2	3252.7	3234.1
25°	3380.3	3384.4	3427.7	3489.5	3528.6	3567.7	3522.4	3450.4	3357.7	3324.8	3285.6
27.5°	3503.9	3514.2	3538.8	3629.4	3697.4	3732.4	3668.6	3569.8	3512.1	3444.1	3433.9
30°	3656.2	3656.2	3699.5	3777.7	3870.3	3923.9	3845.6	3728.2	3658.3	3621.3	3598.6
32.5°	3858.0	3835.3	3851.8	3989.7	4133.9	4179.1	4074.1	3930.0	3818.9	3769.4	3753.0
35°	4030.9	4045.3	4082.4	4230.6	4391.2	4496.2	4331.5	4144.1	4030.9	3985.6	3977.3
37.5°	4255.3	4280.0	4298.5	4502.4	4695.9	4735.0	4576.5	4426.2	4288.3	4251.2	4230.6
40°	4572.3	4555.9	4562.0	4712.3	4887.3	4912.0	4755.5	4648.5	4535.3	4512.6	4512.6
42.5°	4833.8	4815.2	4835.8	4891.4	5025.2	5006.7	4920.3	4842.1	4794.7	4770.0	4794.7
45°	4992.3	4988.2	5025.2	5066.4	5161.1	5099.3	5031.5	5043.8	4998.5	4957.3	4955.3
47.5°	5165.3	5138.5	5183.8	5245.5	5173.5	5144.6	5140.5	5167.3	5152.9	5080.8	5058.2
50°	5249.6	5239.3	5311.4	5383.5	5344.3	5278.5	5292.8	5336.1	5150.8	5054.1	4998.5
52.5°	5476.1	5478.2	5616.1	5655.2	5638.7	5541.9	5572.9	5455.5	5237.3	5101.4	5107.6
55°	5832.3	5817.9	5972.3	6087.5	6106.1	5982.5	5834.3	5669.6	5395.8	5257.8	5216.7
57°	5636.6	5669.6	5840.5	6182.2	6355.2	6209.0	5885.7	5585.2	5220.8	5054.1	4980.0
57.5°	5375.3	5428.7	5725.2	6069.0	6250.1	6237.8	5822.0	5428.7	5103.4	4844.1	4850.2
60°	3938.2	3948.6	4216.2	4761.7	5327.9	5340.2	4833.8	4312.9	3950.6	3668.6	3707.7
62.5°	2077.2	2124.5	2231.6	2670.1	3160.1	3279.5	2972.8	2705.1	2392.2	2178.1	2198.7
65°	1099.4	1093.1	1144.6	1268.1	1509.0	1570.7	1529.6	1317.6	1208.4	1173.4	1175.5
67.5°	893.5	903.7	897.6	903.7	920.2	947.0	940.8	949.1	955.2	965.6	963.4
70°	757.6	757.6	761.7	763.8	763.8	776.2	790.5	817.3	819.4	829.6	833.8
72.5°	597.0	592.9	599.0	613.5	615.5	625.9	646.4	662.9	669.1	669.1	656.7
75°	405.5	409.7	417.9	430.3	442.6	461.1	477.6	487.9	492.0	485.8	479.7
77.5°	228.5	232.6	238.8	257.3	271.7	288.2	306.7	317.1	327.3	329.4	317.1
80°	135.9	135.9	146.2	160.5	177.0	193.5	210.0	222.4	226.5	226.5	220.3
82.5°	82.3	84.4	92.7	107.1	121.4	131.8	146.2	156.4	164.7	162.6	158.5
85°	43.2	43.2	51.5	63.8	74.1	84.4	84.4	78.2	74.1	63.8	59.7
87.5°	14.4	12.4	16.5	16.5	14.4	16.5	16.5	18.5	18.5	18.5	18.5
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)