

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: P651874

Luminaire Tested: **GALN-SA5A-840-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651874
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-SA5A-840-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 615mA 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: 17000.8 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

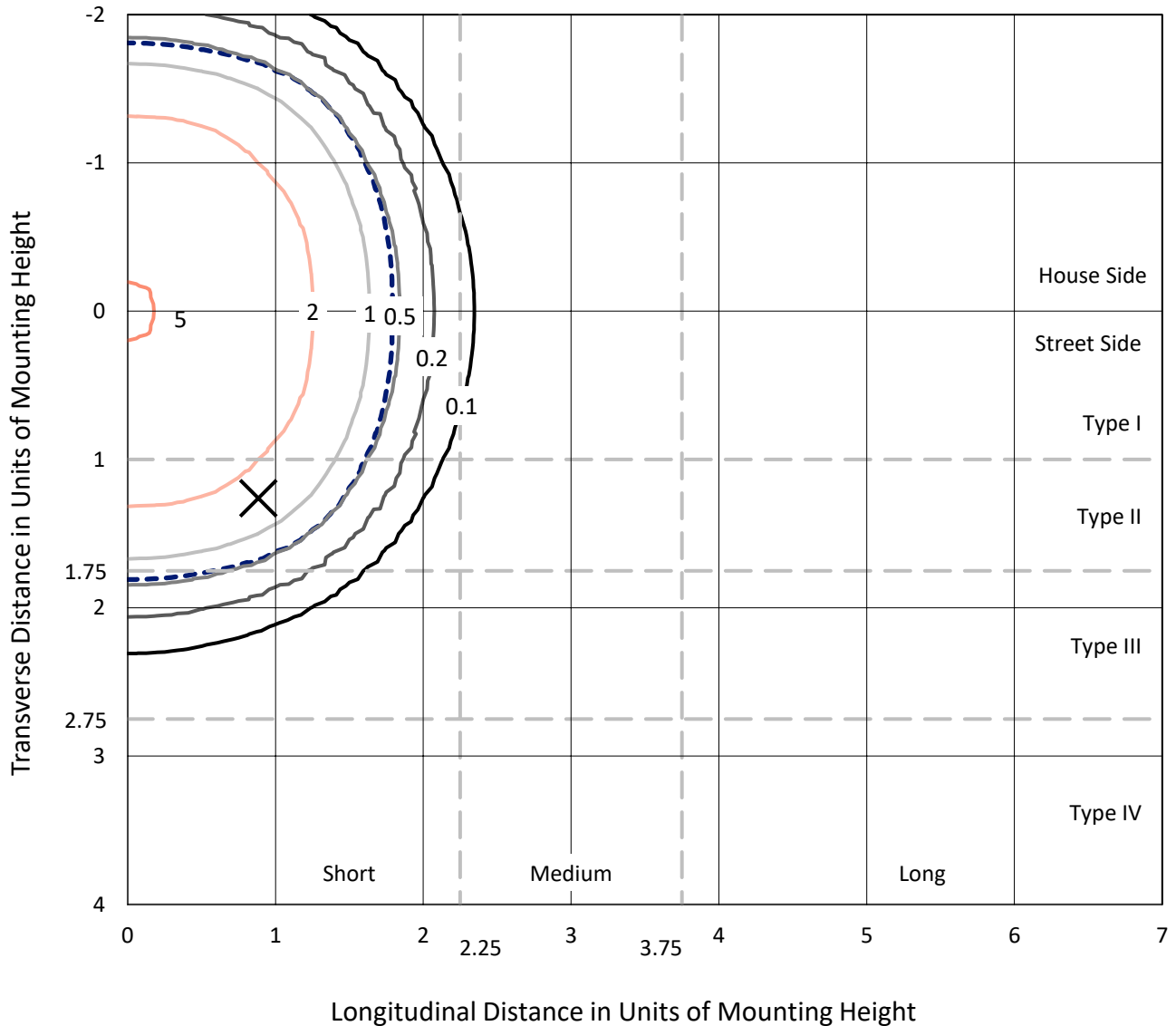
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

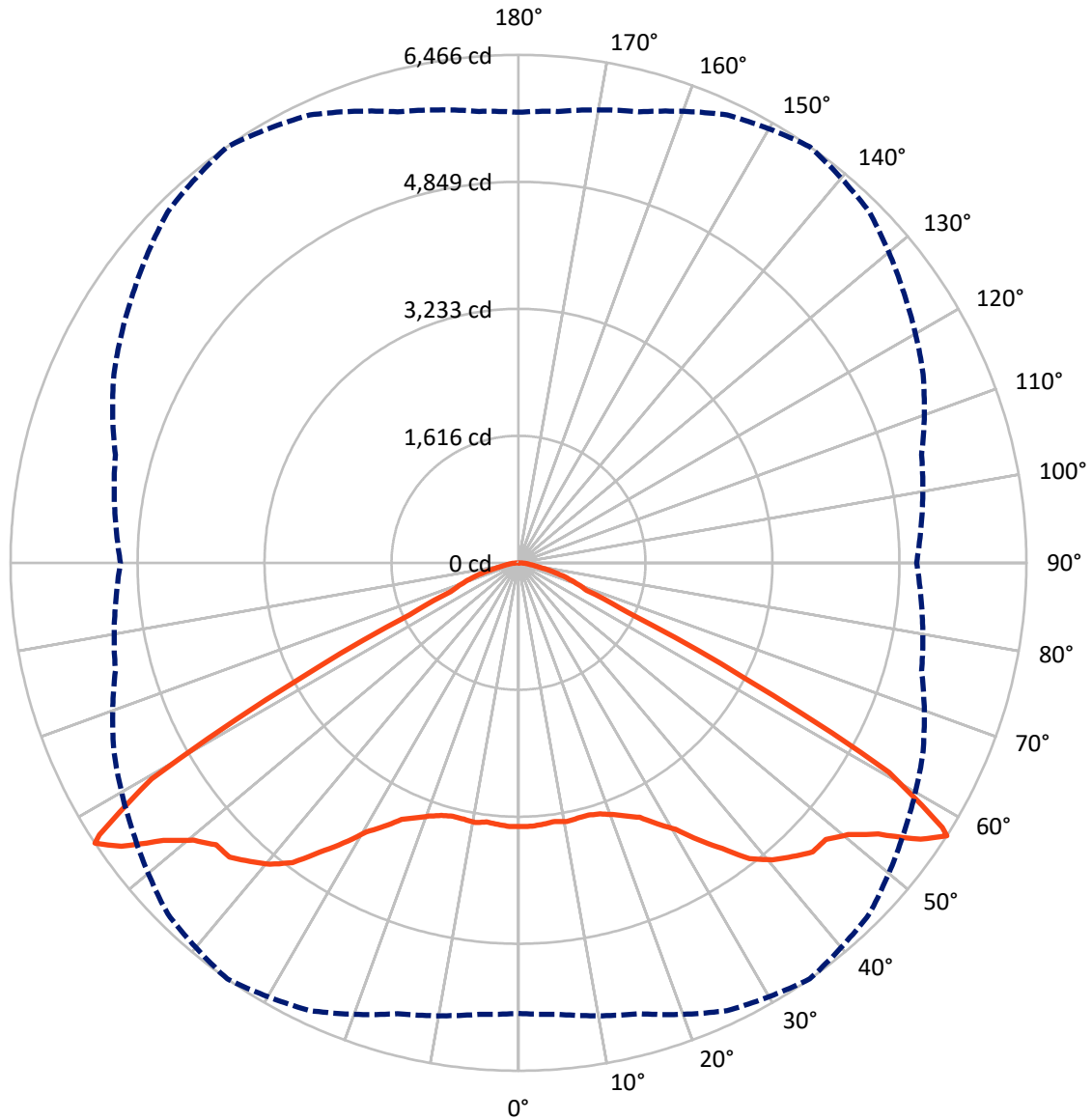
✕ Max cd
 - - - 1/2 Max cd



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8500.4	0.0	8500.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8500.4	0.0	8500.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	17000.8	0.0	17000.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.3	1.9
10°-20°	942.7	5.5
20°-30°	1646.5	9.7
30°-40°	2697.8	15.9
40°-50°	3955.6	23.3
50°-60°	4982.4	29.3
60°-70°	1873.8	11.0
70°-80°	498.2	2.9
80°-90°	85.4	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°	17000.8	100.0
0°-180°	17000.8	100.0

Coefficient of Utilization



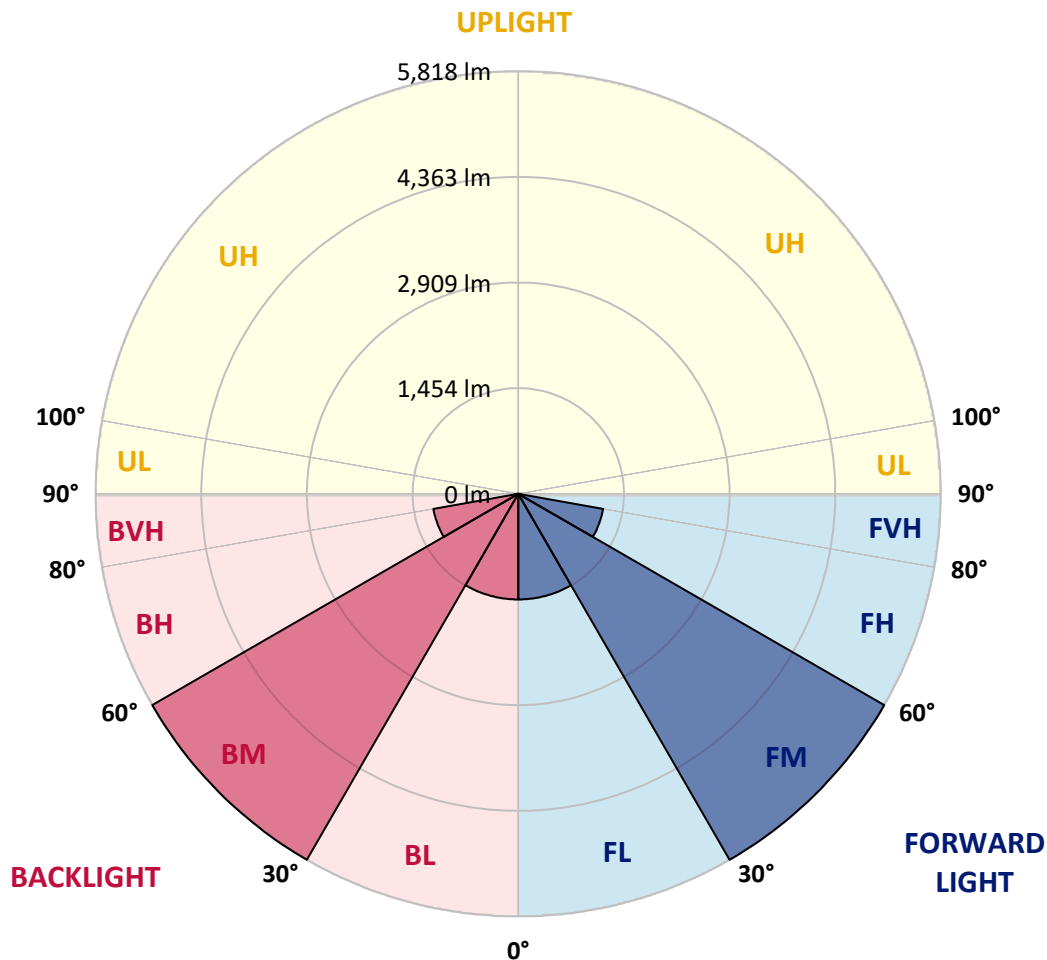
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1453.8	8.6			
FM (30°-60°)	5817.9	34.2			
FH (60°-80°)	1186.0	7.0			G1/1800
FVH (80°-90°)	42.7	0.3			G1/100
BL (0°-30°)	1453.8	8.6	B3/2500		
BM (30°-60°)	5817.9	34.2	B4/8500		
BH (60°-80°)	1186.0	7.0	B3/2500		G1/1800
BVH (80°-90°)	42.7	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°	3357.5	3357.5	3357.5	3357.5	3357.5	3357.5	3357.5	3357.5	3357.5	3357.5	3357.5
2.5°	3340.8	3374.3	3359.6	3351.2	3357.5	3347.1	3330.3	3349.2	3345.0	3328.2	3322.0
5°	3332.4	3357.5	3340.8	3357.5	3340.8	3370.1	3361.7	3330.3	3368.0	3332.4	3345.0
7.5°	3326.2	3334.5	3338.7	3330.3	3324.1	3359.6	3340.8	3326.2	3305.2	3298.9	3309.3
10°	3311.4	3332.4	3301.0	3342.9	3351.2	3326.2	3326.2	3298.9	3282.2	3271.7	3307.2
12.5°	3349.2	3313.5	3309.3	3330.3	3336.6	3347.1	3317.7	3303.1	3271.7	3275.9	3269.6
15°	3305.2	3319.8	3322.0	3326.2	3332.4	3357.5	3330.3	3298.9	3286.3	3242.3	3246.5
17.5°	3322.0	3307.2	3322.0	3370.1	3361.7	3380.6	3351.2	3303.1	3273.8	3248.6	3282.2
20°	3351.2	3345.0	3351.2	3409.9	3420.3	3437.2	3412.0	3368.0	3311.4	3282.2	3298.9
22.5°	3382.7	3378.5	3382.7	3439.2	3500.0	3520.9	3495.8	3393.2	3363.8	3309.3	3290.5
25°	3439.2	3443.4	3487.4	3550.2	3590.1	3629.8	3583.8	3510.4	3416.1	3382.7	3342.9
27.5°	3564.9	3575.3	3600.5	3692.7	3761.8	3797.4	3732.4	3631.9	3573.2	3504.2	3493.7
30°	3719.9	3719.9	3763.9	3843.5	3937.7	3992.1	3912.6	3793.2	3722.0	3684.3	3661.2
32.5°	3925.1	3902.2	3918.9	4059.2	4205.8	4251.9	4145.1	3998.5	3885.3	3835.1	3818.3
35°	4101.1	4115.8	4153.4	4304.2	4467.6	4574.5	4406.9	4216.3	4101.1	4055.0	4046.6
37.5°	4329.4	4354.5	4373.4	4580.8	4777.6	4817.4	4656.1	4503.2	4362.9	4325.2	4304.2
40°	4652.0	4635.2	4641.5	4794.4	4972.4	4997.6	4838.4	4729.4	4614.2	4591.2	4591.2
42.5°	4918.0	4899.1	4920.0	4976.6	5112.8	5093.9	5006.0	4926.3	4878.1	4853.0	4878.1
45°	5079.2	5075.0	5112.8	5154.7	5251.0	5188.1	5119.0	5131.6	5085.5	5043.6	5041.5
47.5°	5255.2	5228.0	5274.0	5336.9	5263.6	5234.2	5230.0	5257.3	5242.6	5169.3	5146.2
50°	5341.0	5330.6	5403.9	5477.2	5437.4	5370.4	5385.0	5429.0	5240.5	5142.0	5085.5
52.5°	5571.5	5573.6	5713.9	5753.7	5737.0	5638.5	5669.9	5550.5	5328.5	5190.2	5196.5
55°	5933.8	5919.1	6076.2	6193.5	6212.4	6086.7	5935.9	5768.3	5489.8	5349.4	5307.6
57°	5734.9	5768.3	5942.2	6289.9	6465.9	6317.1	5988.3	5682.5	5311.8	5142.0	5066.7
57.5°	5468.9	5523.3	5824.9	6174.7	6359.0	6346.4	5923.3	5523.3	5192.3	4928.4	4934.7
60°	4006.9	4017.3	4289.6	4844.7	5420.7	5433.2	4918.0	4388.1	4019.4	3732.4	3772.2
62.5°	2113.3	2161.5	2270.4	2716.6	3215.1	3336.6	3024.5	2752.3	2433.9	2216.0	2237.0
65°	1118.4	1112.2	1164.5	1290.3	1535.3	1598.2	1556.3	1340.5	1229.5	1193.9	1196.0
67.5°	909.0	919.5	913.2	919.5	936.3	963.4	957.2	965.6	971.9	982.4	980.3
70°	770.8	770.8	775.0	777.1	777.1	789.6	804.3	831.5	833.6	844.1	848.3
72.5°	607.5	603.2	609.5	624.2	626.3	636.7	657.7	674.4	680.7	680.7	668.2
75°	412.6	416.8	425.2	437.7	450.4	469.2	485.9	496.4	500.6	494.3	488.0
77.5°	232.5	236.7	243.0	261.8	276.4	293.3	312.1	322.5	333.0	335.1	322.5
80°	138.3	138.3	148.7	163.4	180.1	196.9	213.6	226.2	230.4	230.4	224.1
82.5°	83.8	85.9	94.3	108.9	123.5	134.1	148.7	159.2	167.5	165.5	161.3
85°	44.0	44.0	52.4	64.9	75.4	85.9	85.9	79.6	75.4	64.9	60.7
87.5°	14.6	12.5	16.7	16.7	14.6	16.7	16.7	18.8	18.8	18.8	18.8
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)