

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: P651441

Luminaire Tested: **GALN-SA6D-840-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651441
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-840-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40377.3 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

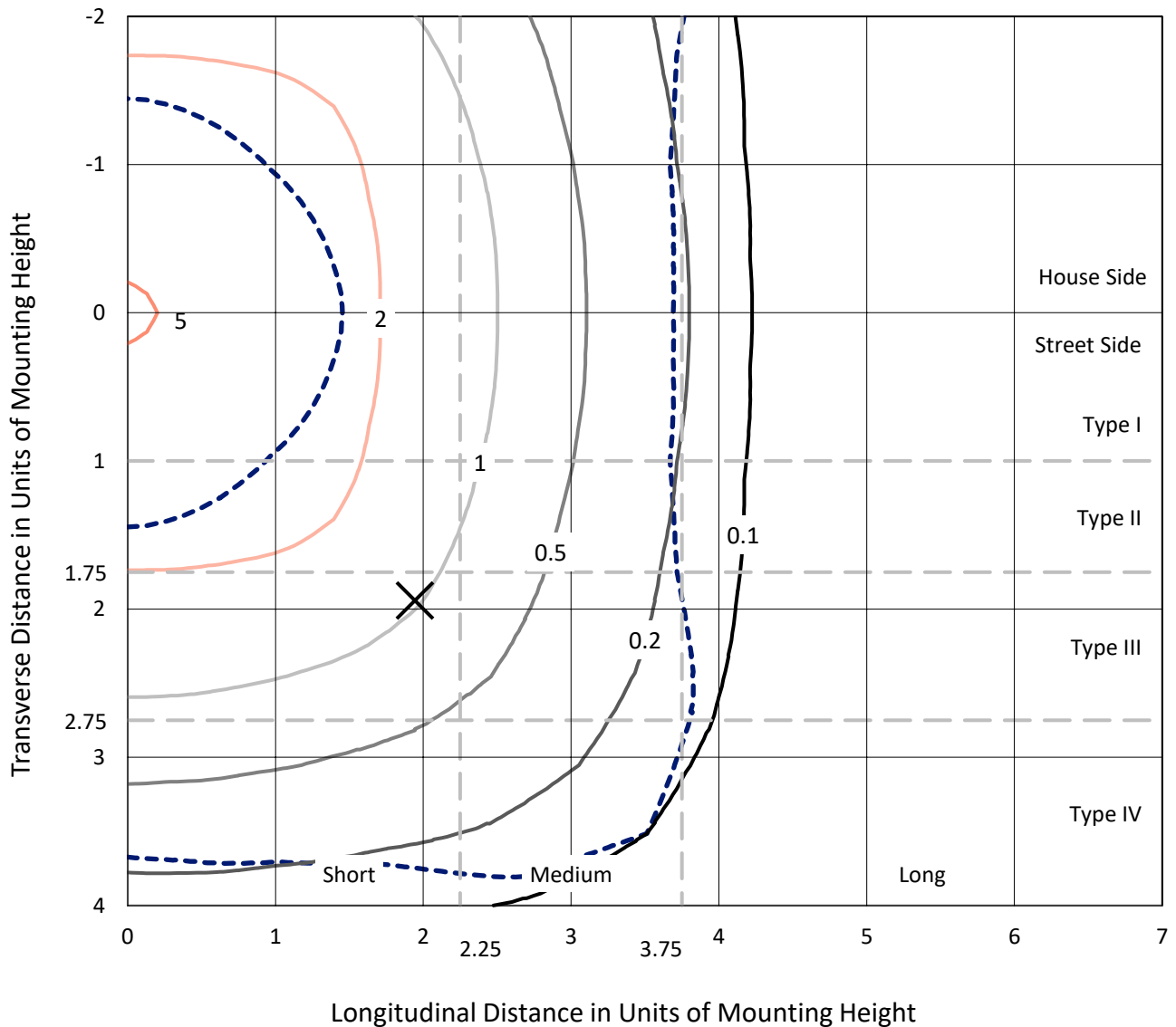
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

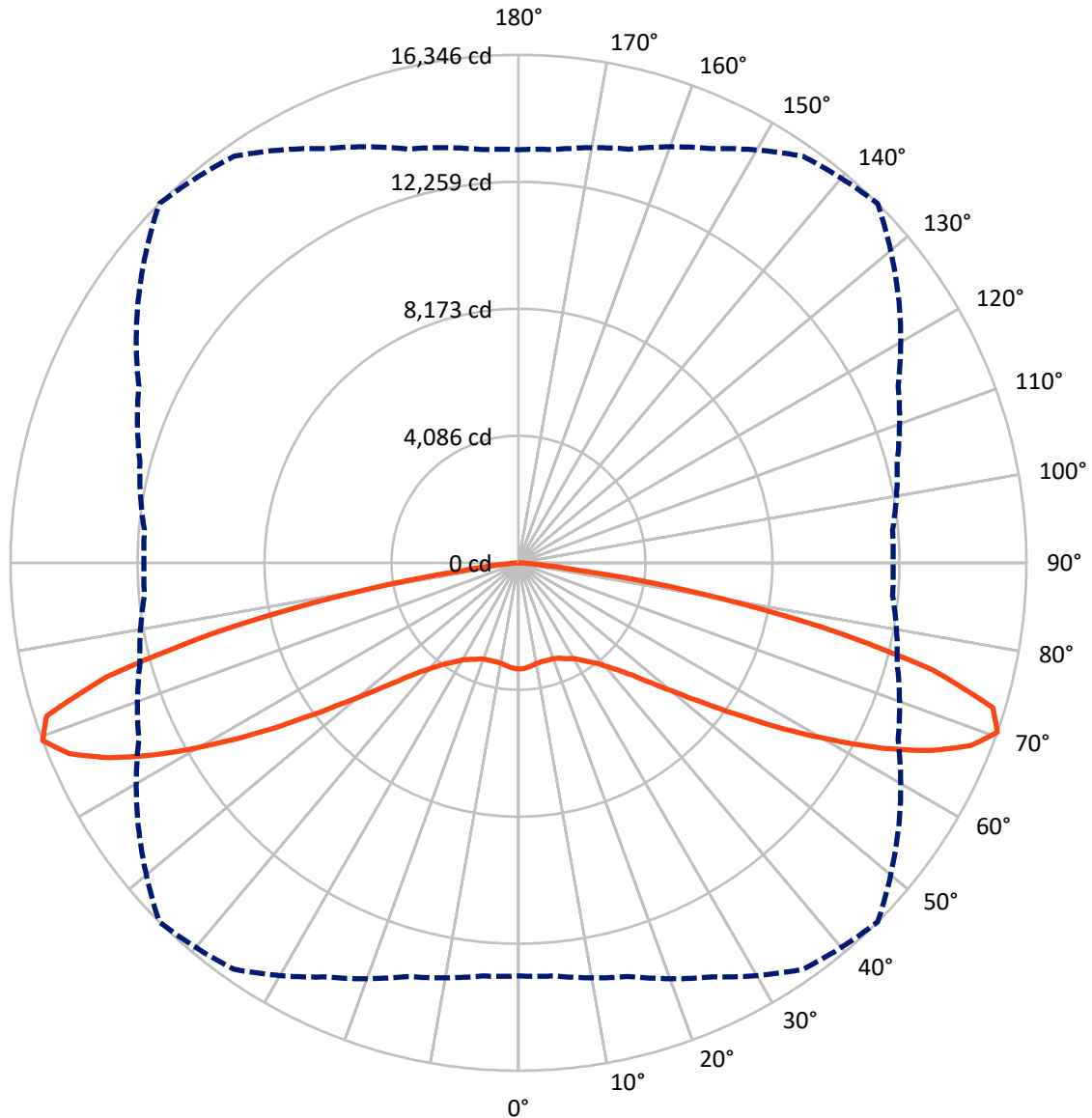
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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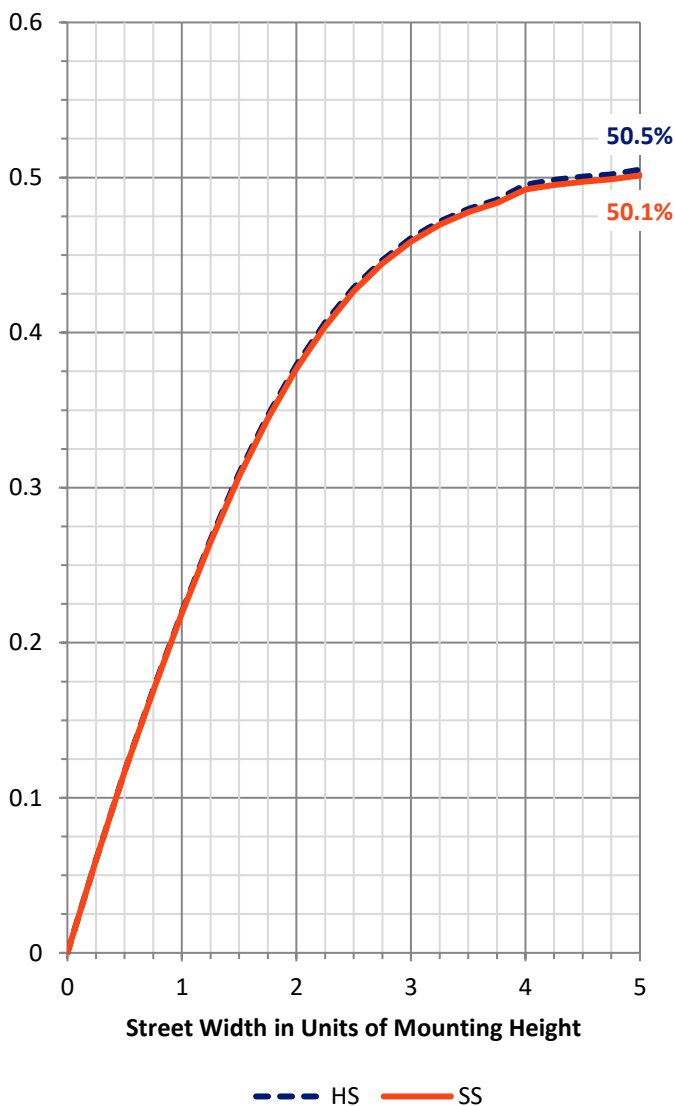
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20188.6	0.0	20188.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20188.6	0.0	20188.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	40377.3	0.0	40377.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.7	0.8
10°-20°	935.9	2.3
20°-30°	1594.6	3.9
30°-40°	2471.5	6.1
40°-50°	4160.0	10.3
50°-60°	7568.9	18.7
60°-70°	12813.9	31.7
70°-80°	9918.5	24.6
80°-90°	594.3	1.5
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°	40377.3	100.0
0°-180°	40377.3	100.0

Coefficient of Utilization

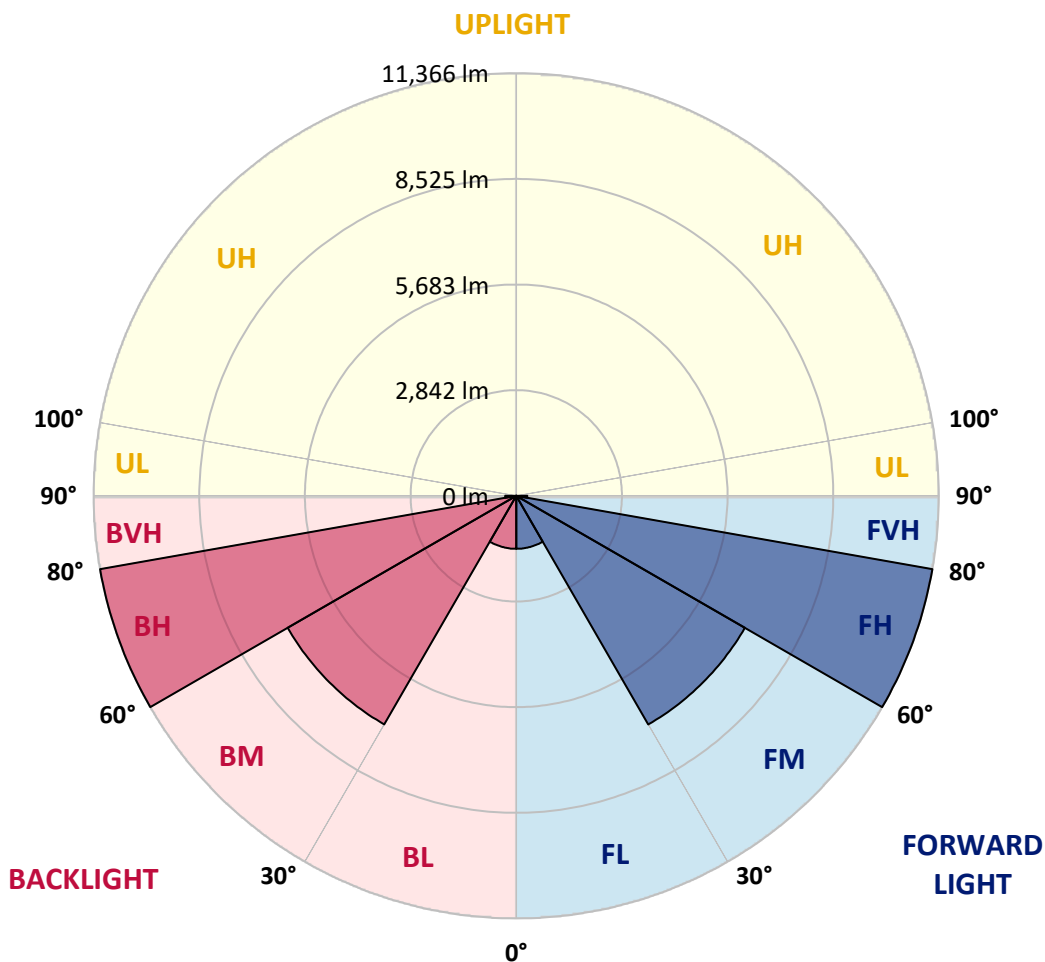


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1425.1	3.5			
FM (30°-60°)	7100.2	17.6			
FH (60°-80°)	11366.2	28.1			G4/12000
FVH (80°-90°)	297.2	0.7			G3/500
BL (0°-30°)	1425.1	3.5	B3/2500		
BM (30°-60°)	7100.2	17.6	B4/8500		
BH (60°-80°)	11366.2	28.1	B5		G4/12000
BVH (80°-90°)	297.2	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3418.4	3418.4	3418.4	3418.4	3418.4	3418.4	3418.4	3418.4	3418.4	3418.4	3418.4
2.5°	3409.9	3412.0	3412.0	3407.7	3405.6	3405.6	3403.5	3403.5	3409.9	3412.0	3414.1
5°	3380.1	3380.1	3380.1	3377.9	3373.7	3373.7	3369.4	3369.4	3371.5	3377.9	3373.7
7.5°	3339.5	3343.8	3343.8	3335.2	3328.8	3328.8	3326.7	3328.8	3331.0	3337.4	3335.2
10°	3326.7	3328.8	3318.2	3303.3	3292.6	3286.2	3288.3	3292.6	3303.3	3307.6	3309.7
12.5°	3335.2	3335.2	3316.1	3294.7	3275.5	3267.0	3264.8	3279.8	3299.0	3311.8	3316.1
15°	3345.9	3341.6	3318.2	3290.5	3271.3	3269.1	3267.0	3277.7	3305.4	3331.0	3333.1
17.5°	3352.3	3350.2	3320.4	3286.2	3275.5	3275.5	3273.4	3281.9	3311.8	3343.8	3345.9
20°	3373.7	3367.3	3333.1	3296.9	3288.3	3292.6	3286.2	3296.9	3328.8	3367.3	3375.8
22.5°	3416.3	3409.9	3375.8	3339.5	3335.2	3335.2	3333.1	3343.8	3377.9	3418.4	3424.8
25°	3467.4	3461.1	3429.1	3403.5	3407.7	3416.3	3412.0	3414.1	3441.9	3476.0	3486.7
27.5°	3535.7	3525.1	3497.3	3476.0	3488.8	3488.8	3488.8	3486.7	3503.7	3535.7	3546.4
30°	3618.9	3614.6	3584.8	3582.7	3593.3	3582.7	3582.7	3584.8	3586.9	3616.7	3627.4
32.5°	3727.6	3719.2	3704.2	3699.9	3729.8	3738.3	3708.5	3680.7	3695.7	3725.5	3731.9
35°	3906.8	3894.0	3872.6	3849.2	3872.6	3913.2	3849.2	3827.9	3866.2	3906.8	3911.1
37.5°	4149.9	4143.5	4109.4	4066.7	4064.6	4107.2	4041.1	4039.0	4111.5	4160.5	4166.9
40°	4454.9	4461.3	4418.6	4378.1	4356.7	4390.9	4339.6	4358.9	4429.2	4484.7	4480.4
42.5°	4883.4	4860.0	4793.9	4755.5	4732.1	4719.3	4706.5	4736.3	4815.2	4874.9	4921.9
45°	5384.6	5376.1	5292.9	5246.0	5194.9	5175.6	5171.4	5224.7	5320.7	5393.2	5399.6
47.5°	5951.8	5932.7	5879.3	5830.3	5811.1	5787.7	5766.3	5806.9	5902.8	5954.0	5968.9
50°	6536.2	6540.5	6540.5	6531.9	6551.1	6555.3	6497.8	6512.7	6566.0	6561.7	6557.5
52.5°	7203.7	7227.1	7338.0	7348.7	7440.3	7502.2	7397.7	7335.9	7316.7	7201.5	7210.1
55°	7988.4	8009.8	8176.1	8342.4	8589.8	8694.3	8474.7	8282.7	8146.3	7971.3	7979.9
57.5°	8967.2	8977.9	9135.7	9455.6	9847.9	10093.2	9707.2	9327.6	9050.4	8884.1	8818.0
60°	10020.7	10031.4	10261.7	10651.9	11261.8	11560.4	11082.7	10462.1	10112.4	9858.6	9875.7
62.5°	11285.3	11327.9	11534.8	12072.2	12812.2	13147.0	12513.7	11684.1	11210.6	10895.1	10907.9
65°	12639.5	12712.0	12938.0	13528.7	14211.1	14571.5	13795.3	12837.8	12249.2	11863.2	11903.7
67.5°	13518.1	13582.0	13908.3	14560.8	15411.7	15710.3	14708.0	13592.7	12857.0	12396.3	12311.1
70°	13294.1	13347.4	13782.5	14708.0	15968.3	16345.8	14925.5	13481.8	12616.0	12085.0	12050.9
72.5°	11735.2	11624.4	12259.8	13588.4	15332.8	15966.1	14241.0	12313.2	11223.5	10677.5	10613.6
75°	7777.3	8018.3	8956.6	10521.8	12972.1	13756.9	12155.4	9886.4	8515.1	8060.9	7990.5
77.5°	2599.5	2785.1	3618.9	5964.6	8843.5	10022.9	8856.3	6465.8	4574.3	3685.0	3702.1
80°	688.8	680.3	880.7	1639.9	3821.5	5804.8	4448.5	2190.1	1198.5	867.9	823.2
82.5°	247.3	277.2	356.2	454.2	1013.0	1804.1	1273.1	614.2	449.9	332.7	322.0
85°	108.7	106.6	153.6	181.2	253.7	336.9	298.6	260.2	228.2	151.4	140.8
87.5°	23.5	23.5	36.2	27.8	44.7	44.7	55.4	66.1	68.2	44.7	36.2
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)