

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: P650891

Luminaire Tested: **GALN-SA5C-840-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650891
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-SA5C-840-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30990 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

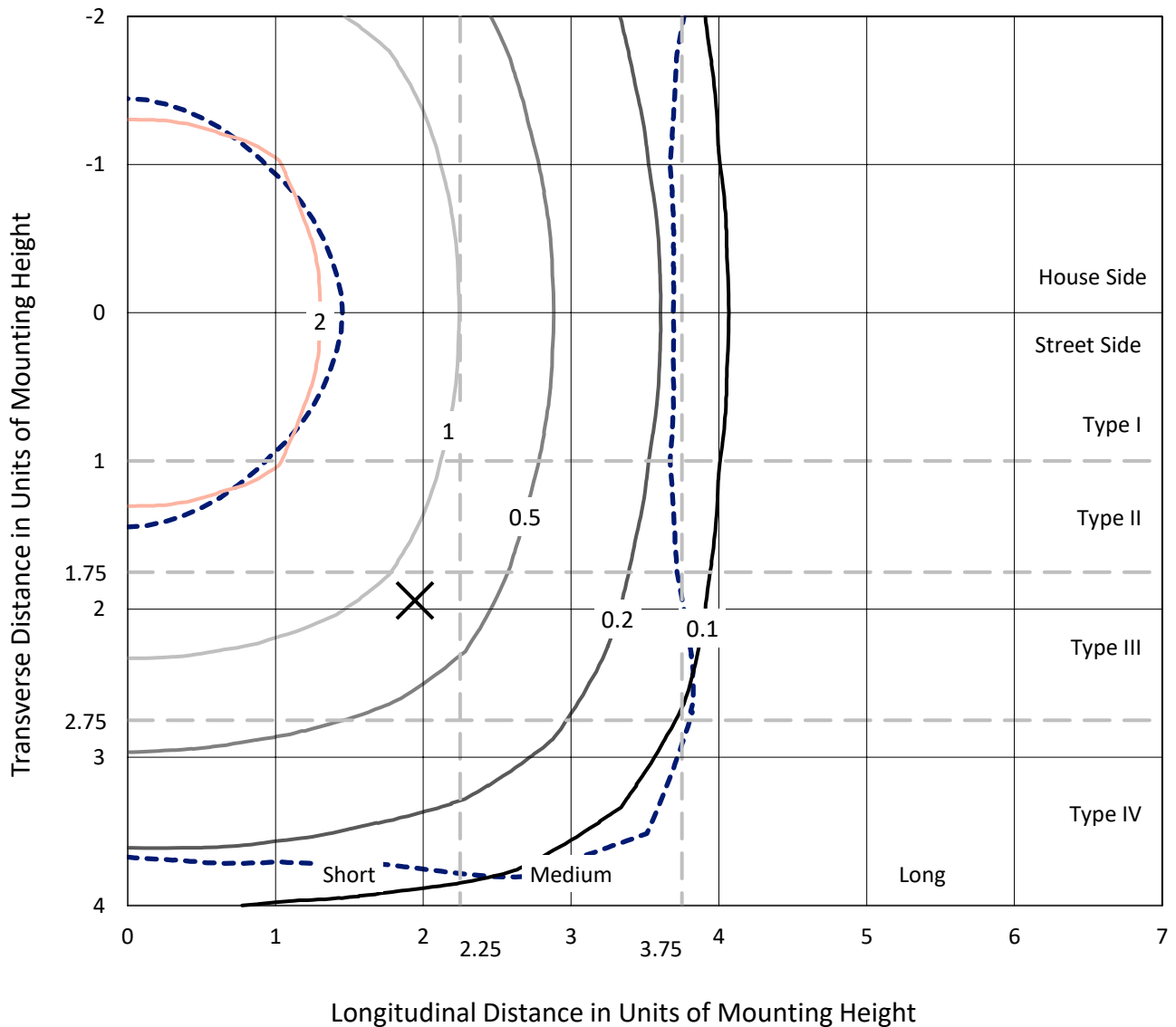
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

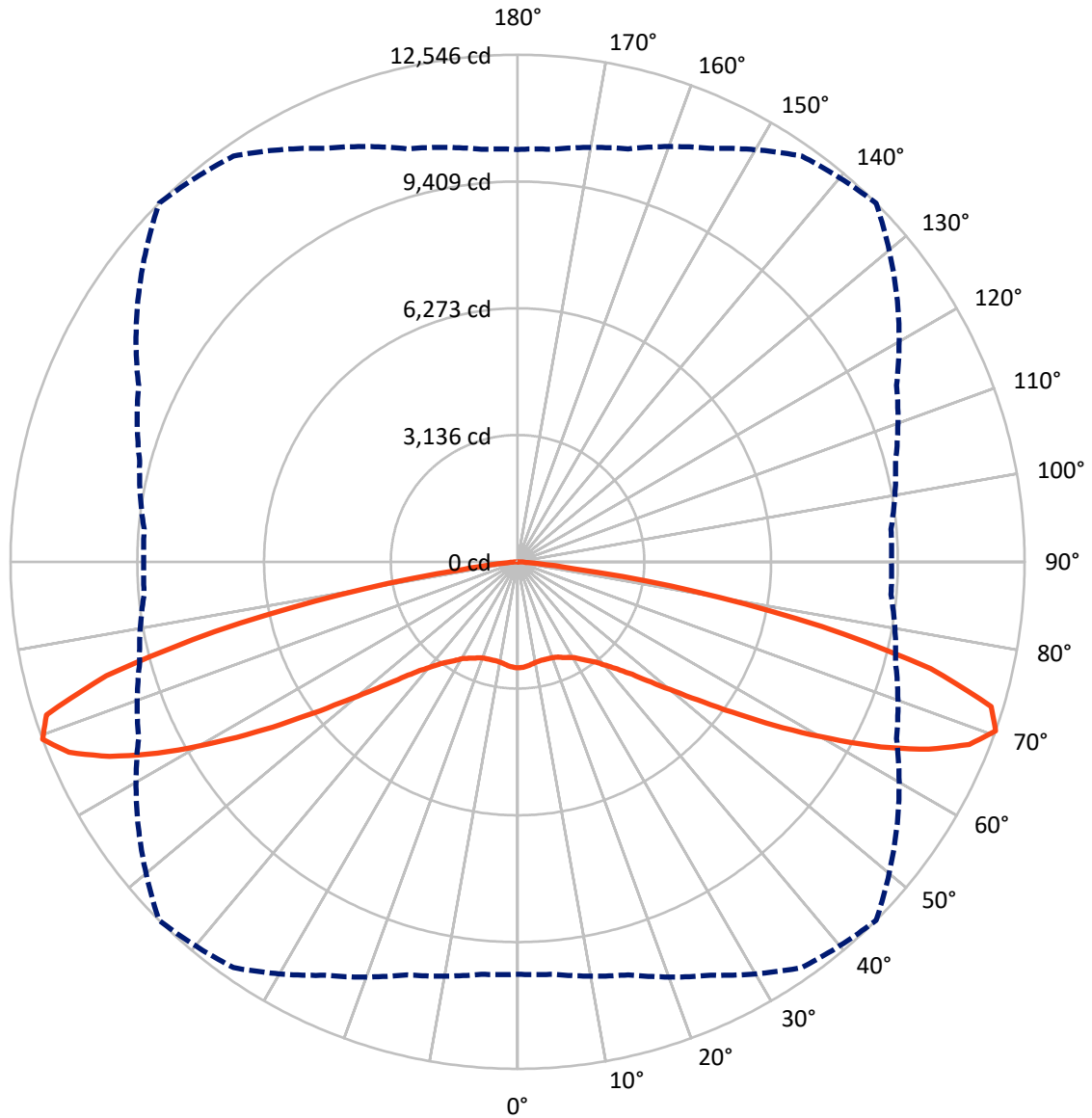
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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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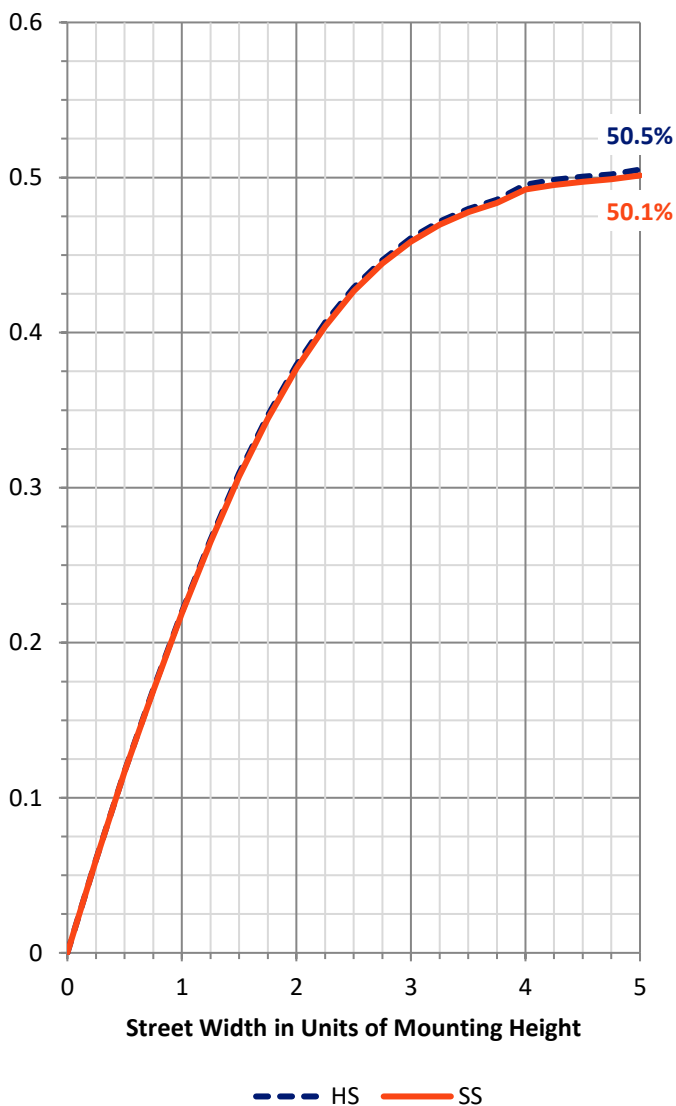
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15495.0	0.0	15495.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15495.0	0.0	15495.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	30990.0	0.0	30990.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.4	0.8
10°-20°	718.3	2.3
20°-30°	1223.8	3.9
30°-40°	1896.9	6.1
40°-50°	3192.8	10.3
50°-60°	5809.2	18.7
60°-70°	9834.8	31.7
70°-80°	7612.5	24.6
80°-90°	456.2	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°	30990.0	100.0
0°-180°	30990.0	100.0



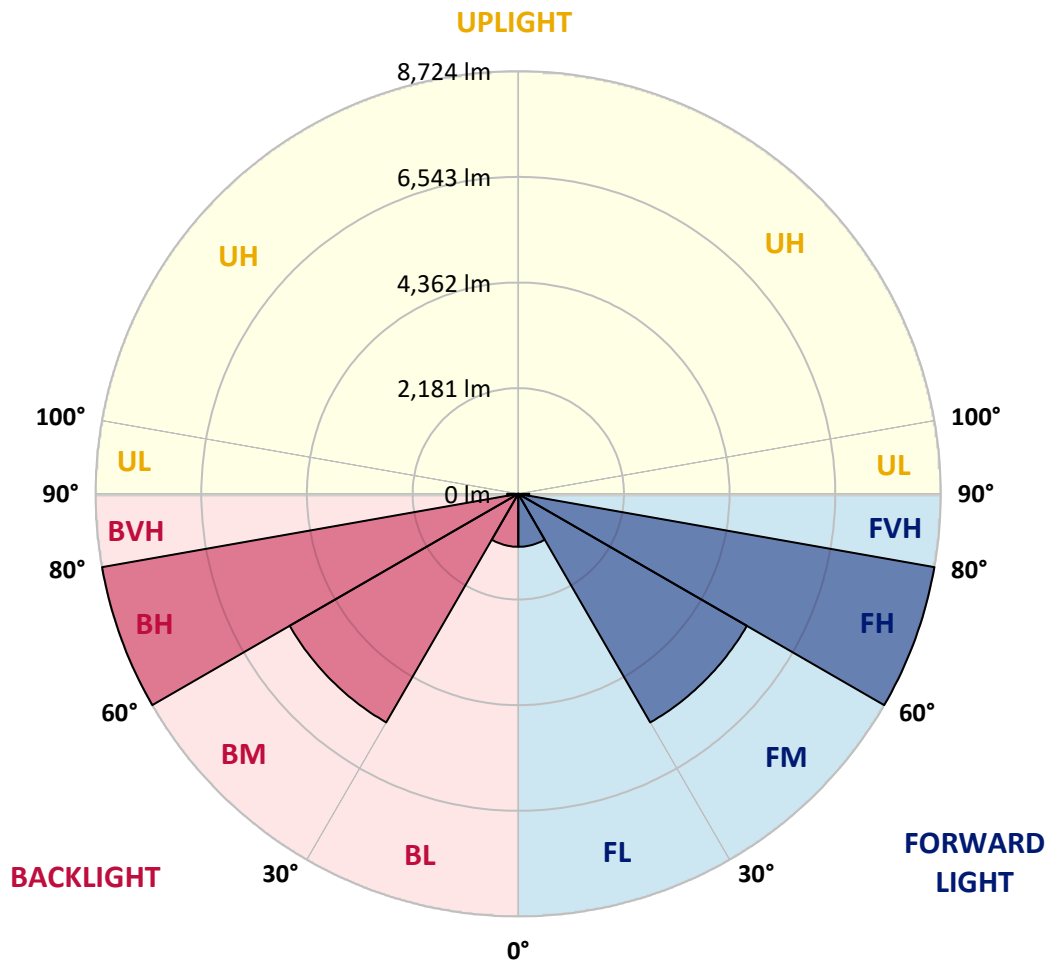
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1093.8	3.5			
FM (30°-60°)	5449.5	17.6			
FH (60°-80°)	8723.7	28.1			G4/12000
FVH (80°-90°)	228.1	0.7			G3/500
BL (0°-30°)	1093.8	3.5	B3/2500		
BM (30°-60°)	5449.5	17.6	B4/8500		
BH (60°-80°)	8723.7	28.1	B5		G4/12000
BVH (80°-90°)	228.1	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°	2623.7	2623.7	2623.7	2623.7	2623.7	2623.7	2623.7	2623.7	2623.7	2623.7	2623.7
2.5°	2617.1	2618.8	2618.8	2615.5	2613.8	2613.8	2612.2	2612.2	2617.1	2618.8	2620.4
5°	2594.2	2594.2	2594.2	2592.6	2589.3	2589.3	2586.1	2586.1	2587.7	2592.6	2589.3
7.5°	2563.1	2566.4	2566.4	2559.8	2555.0	2555.0	2553.3	2555.0	2556.6	2561.5	2559.8
10°	2553.3	2555.0	2546.7	2535.3	2527.1	2522.2	2523.8	2527.1	2535.3	2538.6	2540.2
12.5°	2559.8	2559.8	2545.1	2528.7	2514.0	2507.4	2505.8	2517.3	2532.0	2541.8	2545.1
15°	2568.0	2564.8	2546.7	2525.4	2510.7	2509.1	2507.4	2515.7	2537.0	2556.6	2558.2
17.5°	2573.0	2571.3	2548.4	2522.2	2514.0	2514.0	2512.4	2519.0	2541.8	2566.4	2568.0
20°	2589.3	2584.4	2558.2	2530.4	2523.8	2527.1	2522.2	2530.4	2555.0	2584.4	2591.0
22.5°	2622.1	2617.1	2591.0	2563.1	2559.8	2559.8	2558.2	2566.4	2592.6	2623.7	2628.6
25°	2661.3	2656.4	2631.8	2612.2	2615.5	2622.1	2618.8	2620.4	2641.7	2667.9	2676.1
27.5°	2713.7	2705.5	2684.2	2667.9	2677.7	2677.7	2677.7	2676.1	2689.2	2713.7	2721.9
30°	2777.6	2774.3	2751.3	2749.7	2757.9	2749.7	2749.7	2751.3	2753.0	2775.9	2784.0
32.5°	2861.0	2854.4	2843.0	2839.7	2862.7	2869.2	2846.3	2825.0	2836.4	2859.4	2864.3
35°	2998.5	2988.7	2972.3	2954.3	2972.3	3003.4	2954.3	2937.9	2967.4	2998.5	3001.8
37.5°	3185.1	3180.2	3154.0	3121.3	3119.6	3152.3	3101.6	3100.0	3155.6	3193.3	3198.2
40°	3419.2	3424.0	3391.3	3360.2	3343.8	3370.1	3330.8	3345.5	3399.5	3442.0	3438.8
42.5°	3748.1	3730.1	3679.4	3649.9	3631.9	3622.1	3612.3	3635.2	3695.8	3741.6	3777.6
45°	4132.8	4126.2	4062.4	4026.4	3987.1	3972.4	3969.1	4010.0	4083.6	4139.3	4144.2
47.5°	4568.1	4553.4	4512.5	4474.8	4460.1	4442.1	4425.8	4456.8	4530.5	4569.7	4581.2
50°	5016.6	5019.8	5019.8	5013.3	5028.1	5031.3	4987.1	4998.6	5039.5	5036.2	5033.0
52.5°	5528.9	5546.9	5632.0	5640.2	5710.6	5758.0	5677.8	5630.3	5615.6	5527.2	5533.8
55°	6131.2	6147.5	6275.2	6402.9	6592.8	6673.0	6504.4	6357.0	6252.3	6118.1	6124.7
57.5°	6882.5	6890.6	7011.8	7257.2	7558.4	7746.6	7450.4	7159.1	6946.3	6818.7	6767.9
60°	7691.0	7699.2	7876.0	8175.4	8643.6	8872.7	8506.1	8029.8	7761.4	7566.6	7579.7
62.5°	8661.6	8694.3	8853.1	9265.5	9833.5	10090.5	9604.4	8967.7	8604.3	8362.1	8371.9
65°	9700.9	9756.6	9930.0	10383.4	10907.2	11183.8	10588.0	9853.2	9401.4	9105.2	9136.3
67.5°	10375.2	10424.4	10674.8	11175.6	11828.7	12057.8	11288.6	10432.5	9867.9	9514.3	9448.9
70°	10203.4	10244.3	10578.2	11288.6	12255.9	12545.5	11455.5	10347.4	9682.9	9275.4	9249.1
72.5°	9006.9	8921.8	9409.6	10429.2	11768.1	12254.2	10930.1	9450.5	8614.1	8195.1	8146.0
75°	5969.2	6154.1	6874.2	8075.6	9956.3	10558.6	9329.4	7587.9	6535.5	6186.8	6132.8
77.5°	1995.2	2137.6	2777.6	4578.0	6787.5	7692.6	6797.4	4962.6	3510.8	2828.3	2841.4
80°	528.7	522.1	676.0	1258.6	2933.0	4455.2	3414.2	1680.9	919.9	666.2	631.8
82.5°	189.9	212.8	273.3	348.6	777.4	1384.7	977.2	471.4	345.3	255.3	247.2
85°	83.5	81.8	117.8	139.1	194.8	258.6	229.2	199.7	175.1	116.2	108.0
87.5°	18.0	18.0	27.8	21.3	34.4	34.4	42.6	50.7	52.4	34.4	27.8
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)