

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: P648086

Luminaire Tested: **GALN-SA8A-835-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648086
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-SA8A-835-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30262.2 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

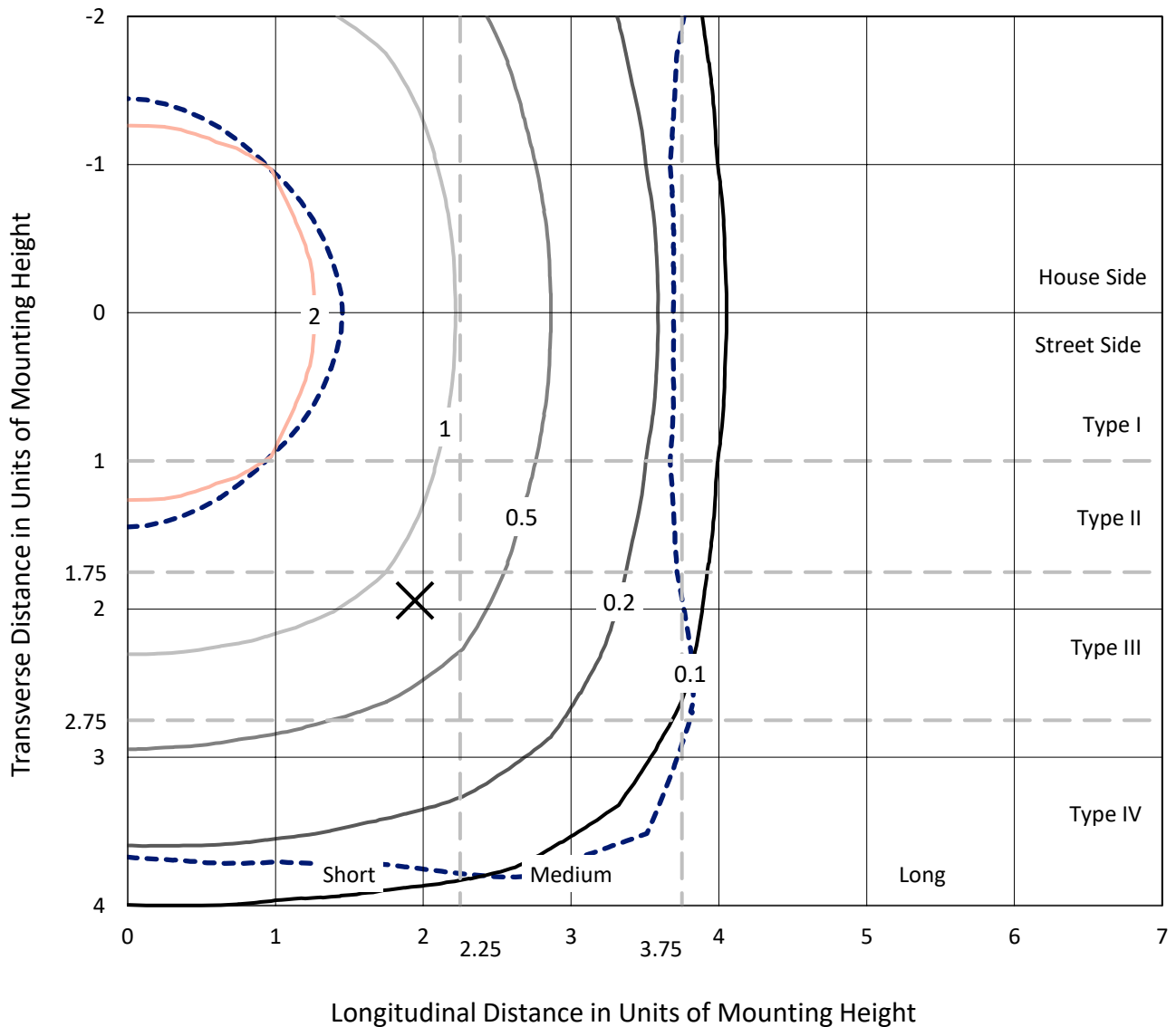
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

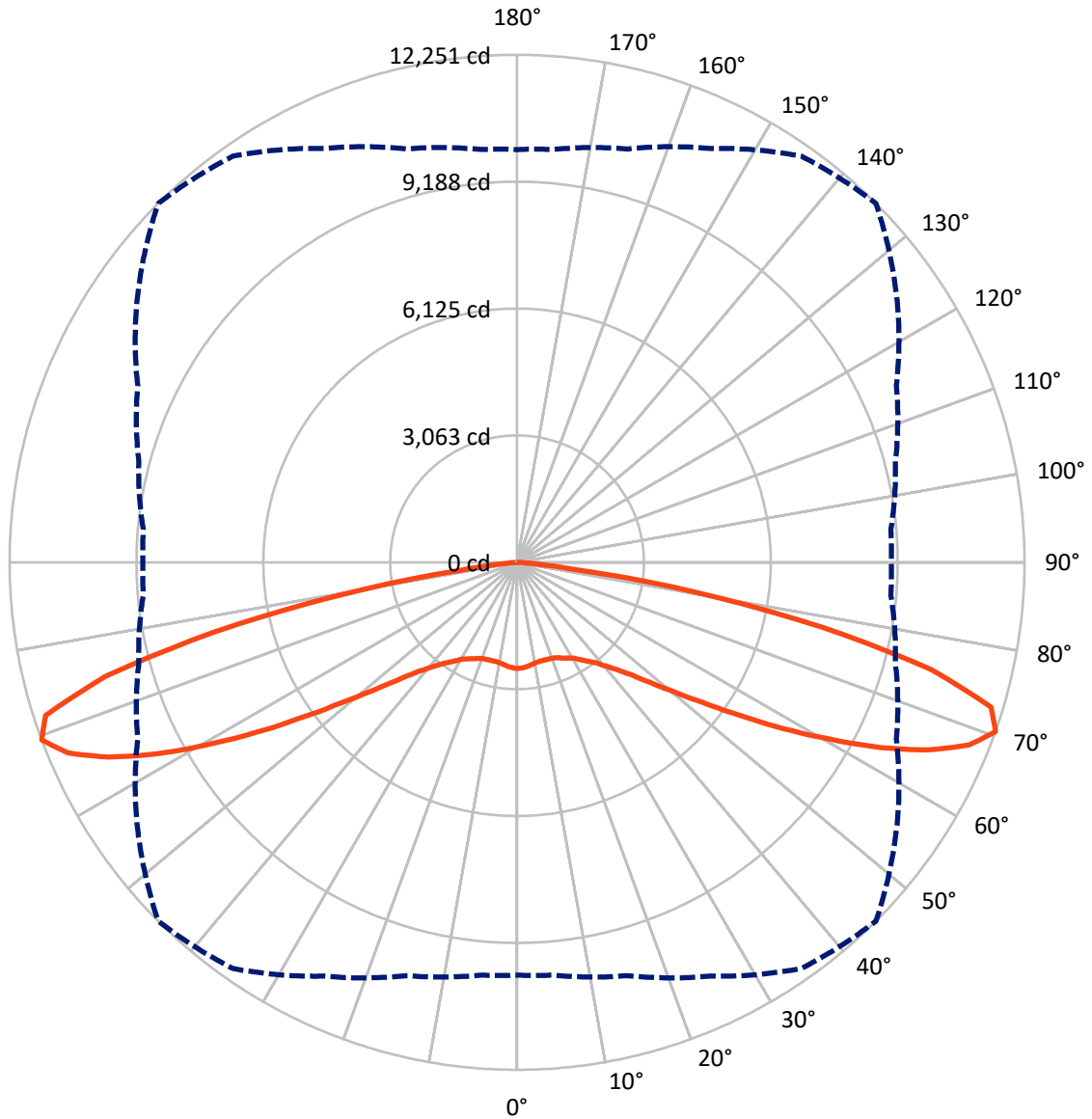
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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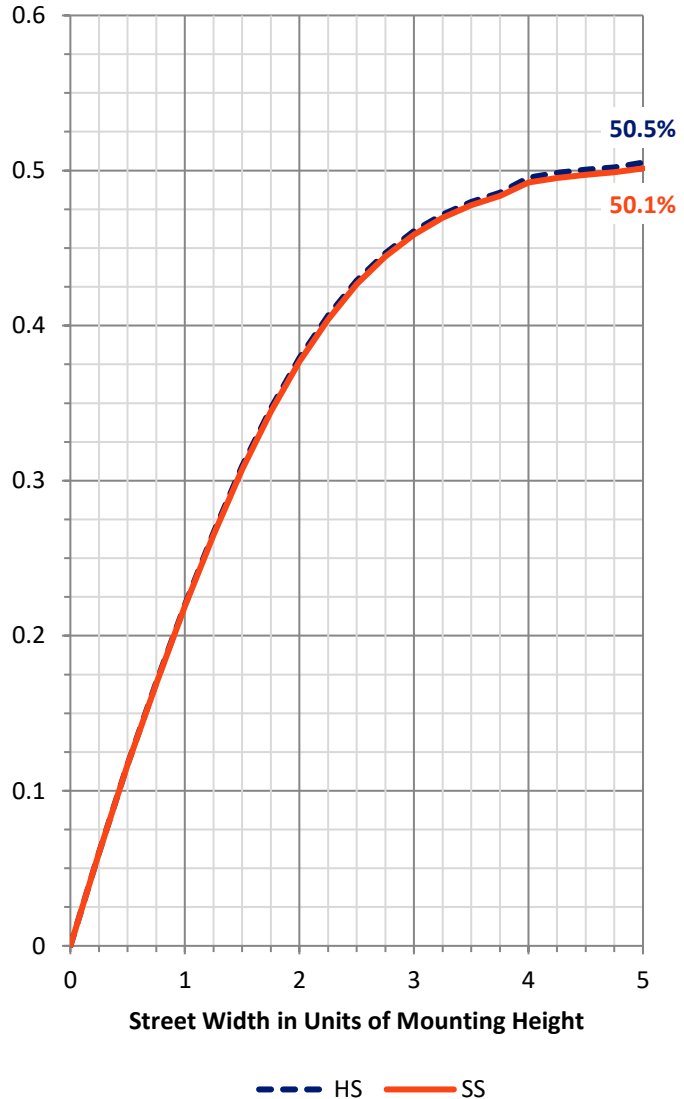
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15131.1	0.0	15131.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15131.1	0.0	15131.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	30262.2	0.0	30262.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.6	0.8
10°-20°	701.4	2.3
20°-30°	1195.1	3.9
30°-40°	1852.4	6.1
40°-50°	3117.8	10.3
50°-60°	5672.8	18.7
60°-70°	9603.8	31.7
70°-80°	7433.8	24.6
80°-90°	445.4	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°	30262.2	100.0
0°-180°	30262.2	100.0

Coefficient of Utilization

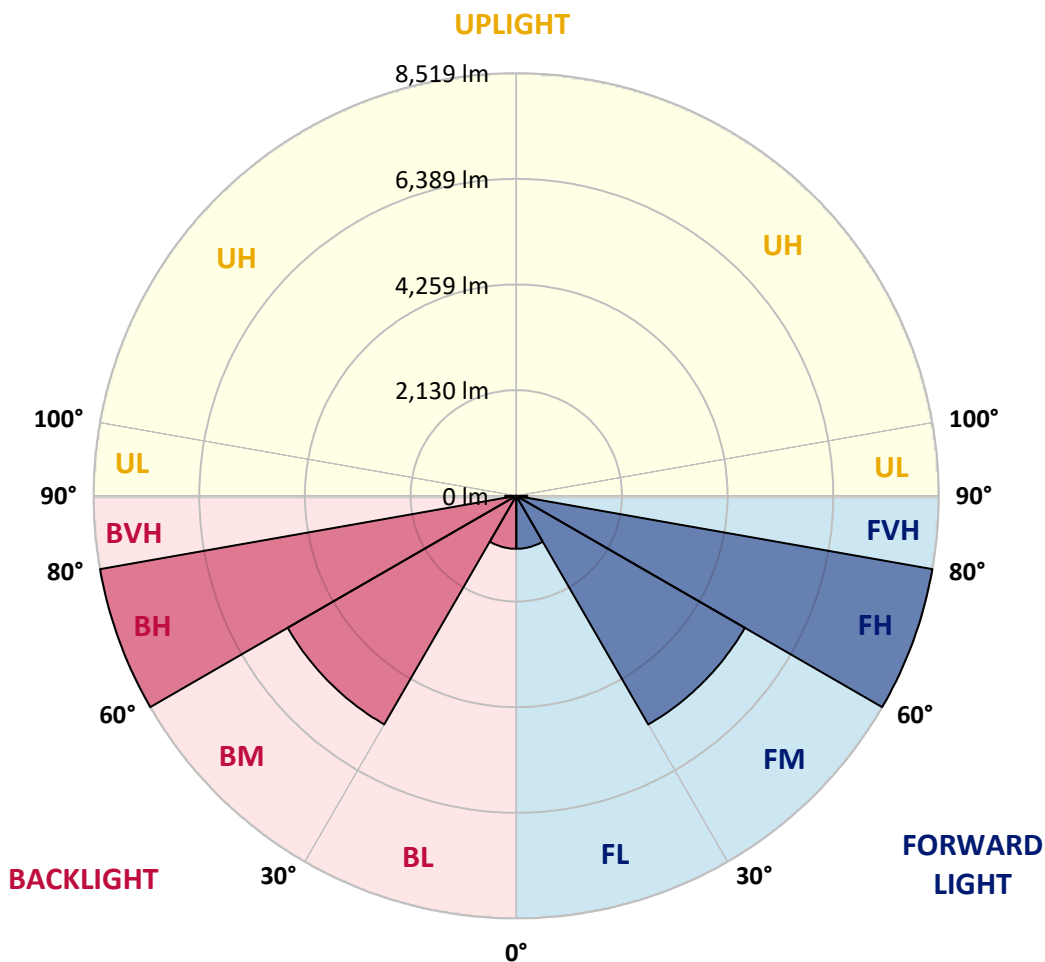


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1068.1	3.5			
FM (30°-60°)	5321.5	17.6			
FH (60°-80°)	8518.8	28.1			G4/12000
FVH (80°-90°)	222.7	0.7			G2/225
BL (0°-30°)	1068.1	3.5	B3/2500		
BM (30°-60°)	5321.5	17.6	B4/8500		
BH (60°-80°)	8518.8	28.1	B5		G4/12000
BVH (80°-90°)	222.7	0.7			G2/225
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°	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1
2.5°	2555.6	2557.3	2557.3	2554.1	2552.5	2552.5	2550.9	2550.9	2555.6	2557.3	2558.8
5°	2533.3	2533.3	2533.3	2531.7	2528.5	2528.5	2525.3	2525.3	2526.9	2531.7	2528.5
7.5°	2502.9	2506.1	2506.1	2499.7	2495.0	2495.0	2493.3	2495.0	2496.5	2501.3	2499.7
10°	2493.3	2495.0	2487.0	2475.8	2467.8	2467.8	2464.6	2467.8	2475.8	2479.0	2480.5
12.5°	2499.7	2499.7	2485.3	2469.3	2454.9	2448.6	2447.0	2458.2	2472.6	2482.1	2485.3
15°	2507.7	2504.5	2487.0	2466.1	2451.8	2450.2	2448.6	2456.6	2477.3	2496.5	2498.2
17.5°	2512.5	2510.9	2488.5	2463.0	2454.9	2454.9	2453.4	2459.8	2482.1	2506.1	2507.7
20°	2528.5	2523.7	2498.2	2471.0	2464.6	2467.8	2463.0	2471.0	2495.0	2523.7	2530.1
22.5°	2560.5	2555.6	2530.1	2502.9	2499.7	2499.7	2498.2	2506.1	2531.7	2562.1	2566.8
25°	2598.9	2594.0	2570.0	2550.9	2554.1	2560.5	2557.3	2558.8	2579.7	2605.2	2613.2
27.5°	2650.0	2642.0	2621.2	2605.2	2614.8	2614.8	2614.8	2613.2	2626.0	2650.0	2658.0
30°	2712.3	2709.1	2686.7	2685.1	2693.1	2685.1	2685.1	2686.7	2688.4	2710.7	2718.7
32.5°	2793.8	2787.4	2776.2	2773.1	2795.4	2801.8	2779.4	2758.7	2769.9	2792.3	2797.0
35°	2928.1	2918.5	2902.5	2884.9	2902.5	2932.9	2884.9	2868.9	2897.7	2928.1	2931.2
37.5°	3110.3	3105.5	3079.9	3047.9	3046.3	3078.3	3028.8	3027.2	3081.5	3118.3	3123.1
40°	3338.9	3343.6	3311.7	3281.3	3265.3	3290.9	3252.5	3266.9	3319.7	3361.2	3358.0
42.5°	3660.1	3642.5	3593.0	3564.2	3546.6	3537.0	3527.4	3549.8	3608.9	3653.7	3688.9
45°	4035.7	4029.3	3967.0	3931.8	3893.5	3879.1	3875.8	3915.8	3987.7	4042.1	4046.9
47.5°	4460.8	4446.4	4406.5	4369.8	4355.4	4337.7	4321.8	4352.1	4424.1	4462.4	4473.6
50°	4898.8	4902.0	4902.0	4895.6	4910.0	4913.2	4870.0	4881.2	4921.2	4917.9	4914.7
52.5°	5399.0	5416.6	5499.7	5507.7	5576.4	5622.8	5544.5	5498.1	5483.7	5397.5	5403.8
55°	5987.2	6003.2	6127.8	6252.5	6437.9	6516.2	6351.6	6207.8	6105.4	5974.4	5980.8
57.5°	6720.8	6728.8	6847.1	7086.9	7380.9	7564.7	7275.4	6990.9	6783.1	6658.5	6608.9
60°	7510.4	7518.4	7691.0	7983.5	8440.6	8664.4	8306.3	7841.2	7579.1	7388.9	7401.7
62.5°	8458.2	8490.1	8645.2	9048.0	9602.6	9853.5	9378.8	8757.1	8402.2	8165.7	8175.3
65°	9473.0	9527.4	9696.8	10139.5	10651.0	10921.1	10339.4	9621.7	9180.6	8891.3	8921.7
67.5°	10131.6	10179.5	10424.1	10913.1	11550.9	11774.6	11023.4	10187.5	9636.1	9290.8	9227.0
70°	9963.8	10003.7	10329.7	11023.4	11968.0	12250.9	11186.5	10104.4	9455.5	9057.5	9032.0
72.5°	8795.4	8712.3	9188.6	10184.3	11491.7	11966.4	10673.4	9228.5	8411.8	8002.7	7954.7
75°	5829.0	6009.6	6712.8	7886.0	9722.4	10310.6	9110.3	7409.7	6382.0	6041.5	5988.8
77.5°	1948.3	2087.4	2712.3	4470.5	6628.1	7511.9	6637.7	4846.0	3428.4	2761.9	2774.6
80°	516.2	509.9	660.1	1229.1	2864.1	4350.6	3334.0	1641.5	898.3	650.5	616.9
82.5°	185.4	207.8	266.9	340.4	759.2	1352.2	954.2	460.3	337.2	249.3	241.3
85°	81.5	79.9	115.1	135.9	190.2	252.5	223.8	195.0	171.0	113.5	105.5
87.5°	17.6	17.6	27.2	20.7	33.6	33.6	41.6	49.6	51.1	33.6	27.2
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)