

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: P456137

Luminaire Tested: **GALN-SA7B-827-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456137
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-SA7B-827-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30493 lumens
Efficiency: N/A
Efficacy: 106.6 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

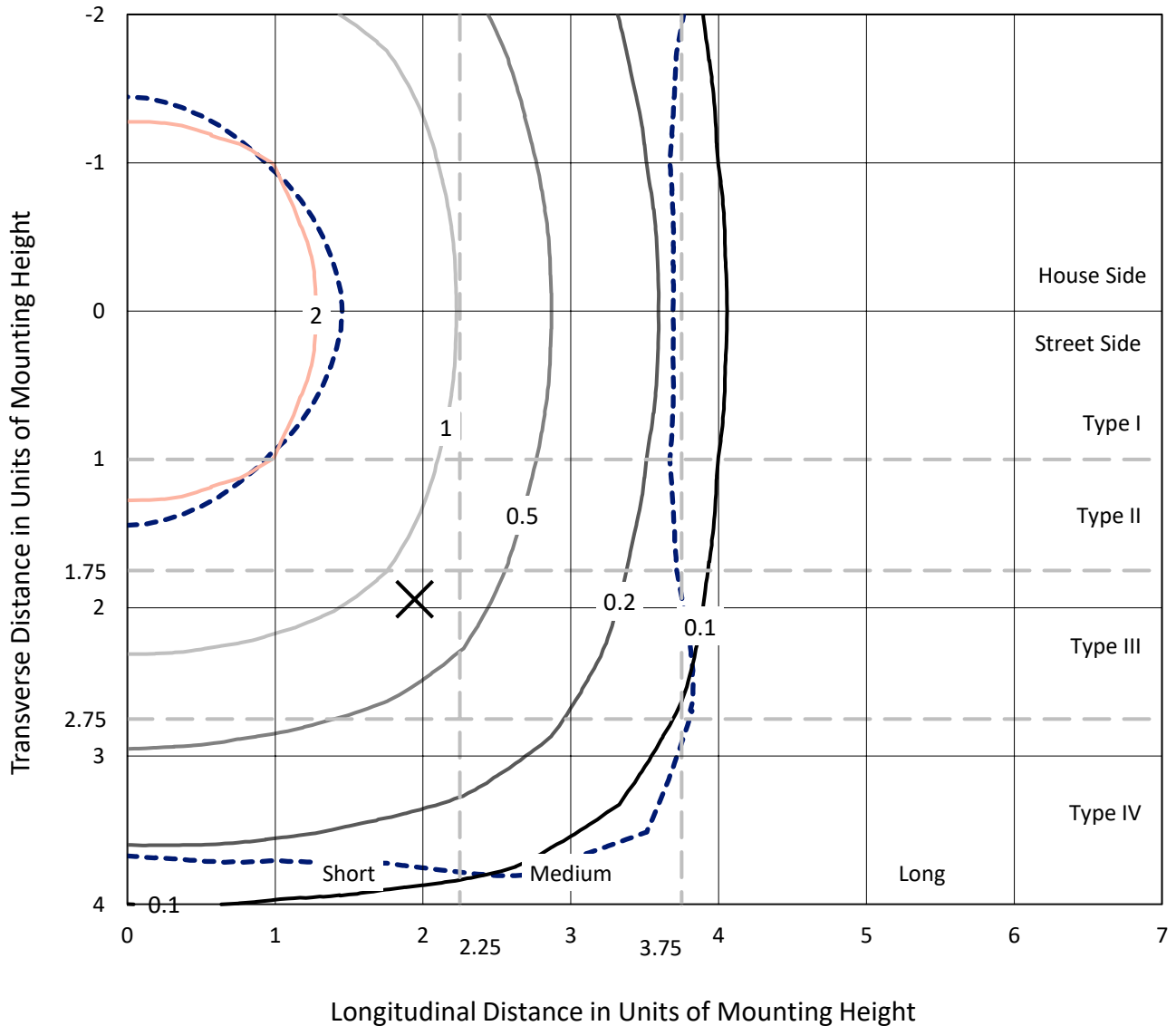
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

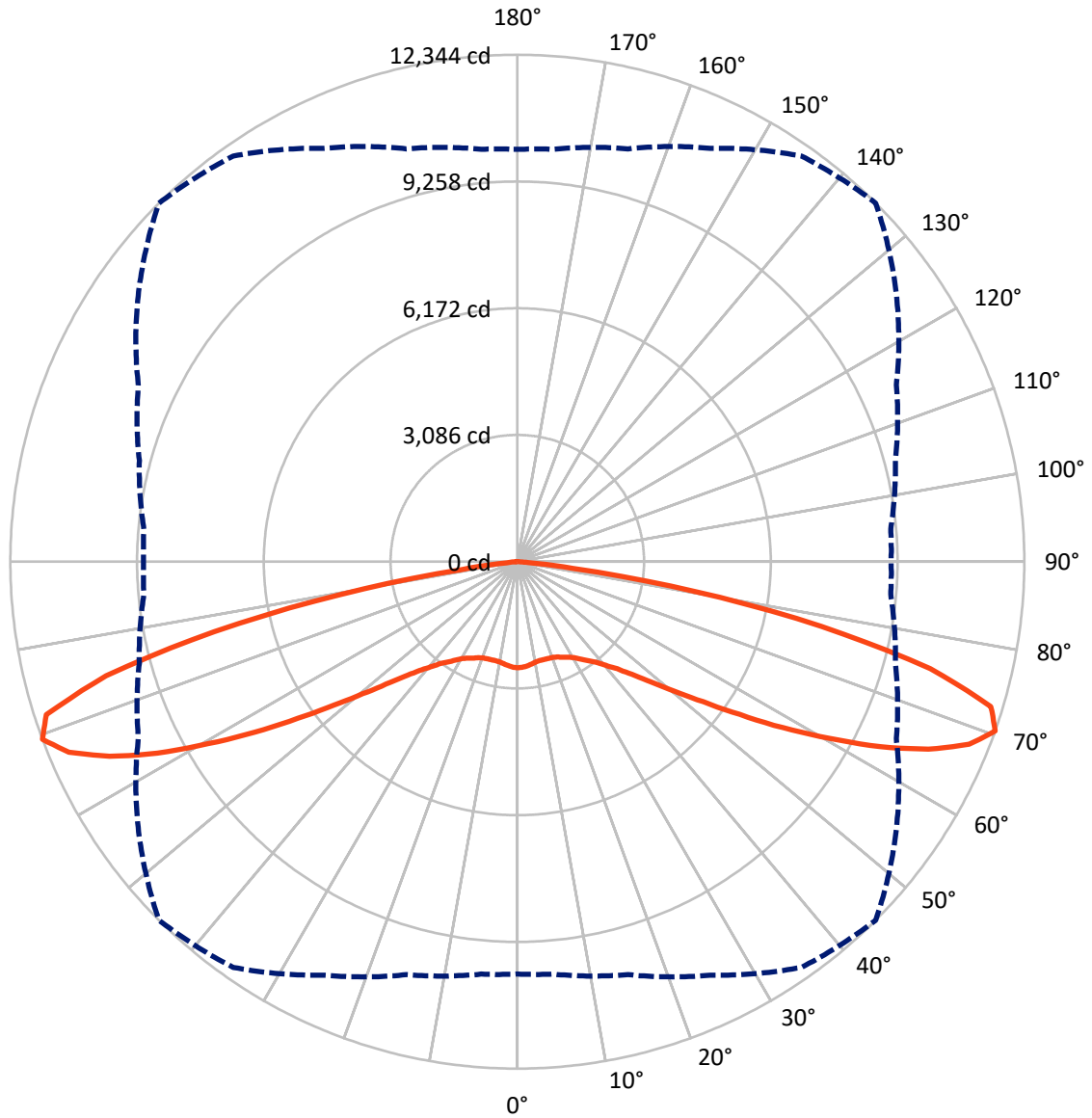
× Max cd
 - - - 1/2 Max cd



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	15246.5	0.0	15246.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15246.5	0.0	15246.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30493.0	0.0	30493.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.4	0.8
10°-20°	706.8	2.3
20°-30°	1204.2	3.9
30°-40°	1866.5	6.1
40°-50°	3141.6	10.3
50°-60°	5716.0	18.7
60°-70°	9677.1	31.7
70°-80°	7490.5	24.6
80°-90°	448.8	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°	30493.0	100.0
0°-180°	30493.0	100.0

Coefficient of Utilization



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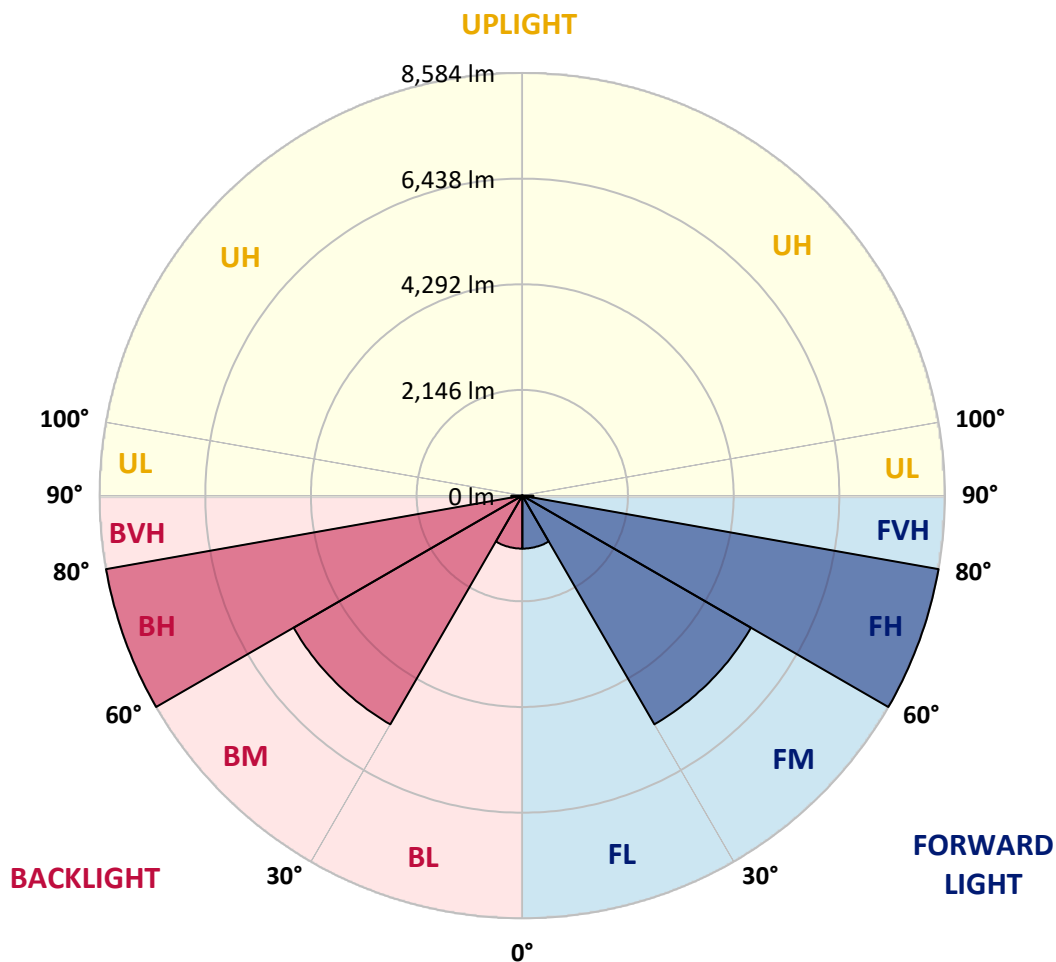
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1076.2	3.5			
FM (30°-60°)	5362.1	17.6			
FH (60°-80°)	8583.8	28.1			G4/12000
FVH (80°-90°)	224.4	0.7			G2/225
BL (0°-30°)	1076.2	3.5	B3/2500		
BM (30°-60°)	5362.1	17.6	B4/8500		
BH (60°-80°)	8583.8	28.1	B5		G4/12000
BVH (80°-90°)	224.4	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°	2581.6	2581.6	2581.6	2581.6	2581.6	2581.6	2581.6	2581.6	2581.6	2581.6	2581.6
2.5°	2575.2	2576.8	2576.8	2573.6	2571.9	2571.9	2570.3	2570.3	2575.2	2576.8	2578.4
5°	2552.6	2552.6	2552.6	2551.0	2547.8	2547.8	2544.6	2544.6	2546.2	2551.0	2547.8
7.5°	2522.0	2525.2	2525.2	2518.8	2514.0	2514.0	2512.4	2514.0	2515.6	2520.4	2518.8
10°	2512.4	2514.0	2505.9	2494.6	2486.6	2481.8	2483.4	2486.6	2494.6	2497.9	2499.5
12.5°	2518.8	2518.8	2504.3	2488.2	2473.7	2467.3	2465.7	2476.9	2491.4	2501.1	2504.3
15°	2526.8	2523.6	2505.9	2485.0	2470.5	2468.9	2467.3	2475.3	2496.3	2515.6	2517.2
17.5°	2531.7	2530.1	2507.5	2481.8	2473.7	2473.7	2472.1	2478.5	2501.1	2525.2	2526.8
20°	2547.8	2543.0	2517.2	2489.8	2483.4	2486.6	2481.8	2489.8	2514.0	2543.0	2549.4
22.5°	2580.0	2575.2	2549.4	2522.0	2518.8	2518.8	2517.2	2525.2	2551.0	2581.6	2586.4
25°	2618.6	2613.8	2589.7	2570.3	2573.6	2580.0	2576.8	2578.4	2599.3	2625.1	2633.1
27.5°	2670.2	2662.1	2641.2	2625.1	2634.8	2634.8	2634.8	2633.1	2646.0	2670.2	2678.2
30°	2733.0	2729.8	2707.2	2705.6	2713.7	2705.6	2705.6	2707.2	2708.8	2731.4	2739.4
32.5°	2815.1	2808.7	2797.4	2794.2	2816.7	2823.2	2800.6	2779.7	2791.0	2813.5	2818.3
35°	2950.4	2940.7	2924.6	2906.9	2924.6	2955.2	2906.9	2890.8	2919.8	2950.4	2953.6
37.5°	3134.0	3129.2	3103.4	3071.2	3069.6	3101.8	3051.9	3050.3	3105.0	3142.1	3146.9
40°	3364.3	3369.1	3336.9	3306.3	3290.2	3316.0	3277.3	3291.8	3345.0	3386.8	3383.6
42.5°	3688.0	3670.3	3620.4	3591.4	3573.7	3564.0	3554.3	3576.9	3636.5	3681.6	3717.0
45°	4066.5	4060.0	3997.2	3961.8	3923.1	3908.6	3905.4	3945.7	4018.2	4072.9	4077.7
47.5°	4494.9	4480.4	4440.1	4403.1	4388.6	4370.9	4354.7	4385.3	4457.8	4496.5	4507.7
50°	4936.1	4939.4	4939.4	4932.9	4947.4	4950.6	4907.1	4918.4	4958.7	4955.5	4952.2
52.5°	5440.2	5457.9	5541.7	5549.7	5619.0	5665.7	5586.8	5540.1	5525.6	5438.6	5445.0
55°	6032.9	6049.0	6174.6	6300.2	6487.0	6565.9	6400.1	6255.1	6152.0	6020.0	6026.4
57.5°	6772.1	6780.1	6899.3	7140.9	7437.2	7622.4	7330.9	7044.3	6834.9	6709.3	6659.4
60°	7567.7	7575.7	7749.6	8044.4	8505.0	8730.4	8369.7	7901.0	7636.9	7445.3	7458.2
62.5°	8522.7	8554.9	8711.1	9116.9	9675.8	9928.6	9450.3	8823.8	8466.3	8228.0	8237.6
65°	9545.3	9600.1	9770.8	10216.9	10732.3	11004.4	10418.2	9695.1	9250.6	8959.1	8989.7
67.5°	10208.9	10257.2	10503.6	10996.4	11639.0	11864.4	11107.5	10265.2	9709.6	9361.7	9297.3
70°	10039.8	10080.0	10408.6	11107.5	12059.3	12344.4	11271.8	10181.5	9527.6	9126.6	9100.8
72.5°	8862.5	8778.7	9258.7	10262.0	11579.4	12057.7	10754.8	9298.9	8476.0	8063.7	8015.4
75°	5873.4	6055.4	6764.0	7946.1	9796.6	10389.2	9179.8	7466.2	6430.7	6087.6	6034.5
77.5°	1963.2	2103.3	2733.0	4504.5	6678.7	7569.3	6688.3	4883.0	3454.5	2782.9	2795.8
80°	520.2	513.7	665.1	1238.5	2886.0	4383.7	3359.5	1654.0	905.1	655.5	621.6
82.5°	186.8	209.4	269.0	343.0	765.0	1362.5	961.5	463.8	339.8	251.2	243.2
85°	82.1	80.5	116.0	136.9	191.6	254.5	225.5	196.5	172.3	114.3	106.3
87.5°	17.7	17.7	27.4	20.9	33.8	33.8	41.9	49.9	51.5	33.8	27.4
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)