

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: P522809

Luminaire Tested: **GALN-SA6B-827-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

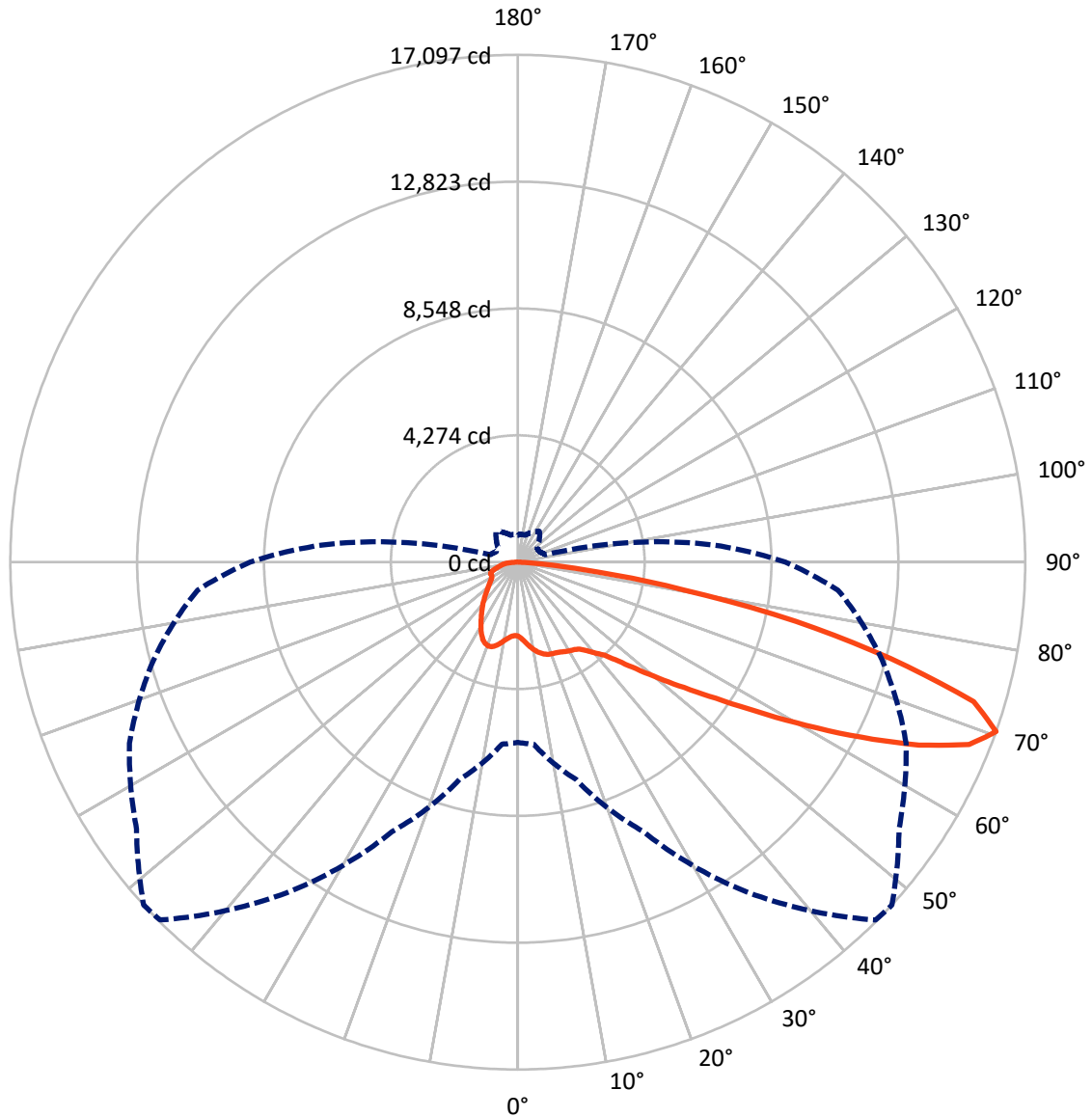
Lumens per Lamp: N/A
Luminaire Lumens: 24823 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): 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



REPORT NUMBER: P522809
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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P522809

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5620.4	0.0	5620.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	19202.6	0.0	19202.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	24823.0	0.0	24823.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.9	1.0
10°-20°	858.7	3.5
20°-30°	1428.0	5.8
30°-40°	2024.0	8.2
40°-50°	2987.9	12.0
50°-60°	5175.2	20.8
60°-70°	7310.1	29.4
70°-80°	4202.3	16.9
80°-90°	579.8	2.3
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°	24823.0	100.0
0°-180°	24823.0	100.0

Coefficient of Utilization



REPORT NUMBER: P522809

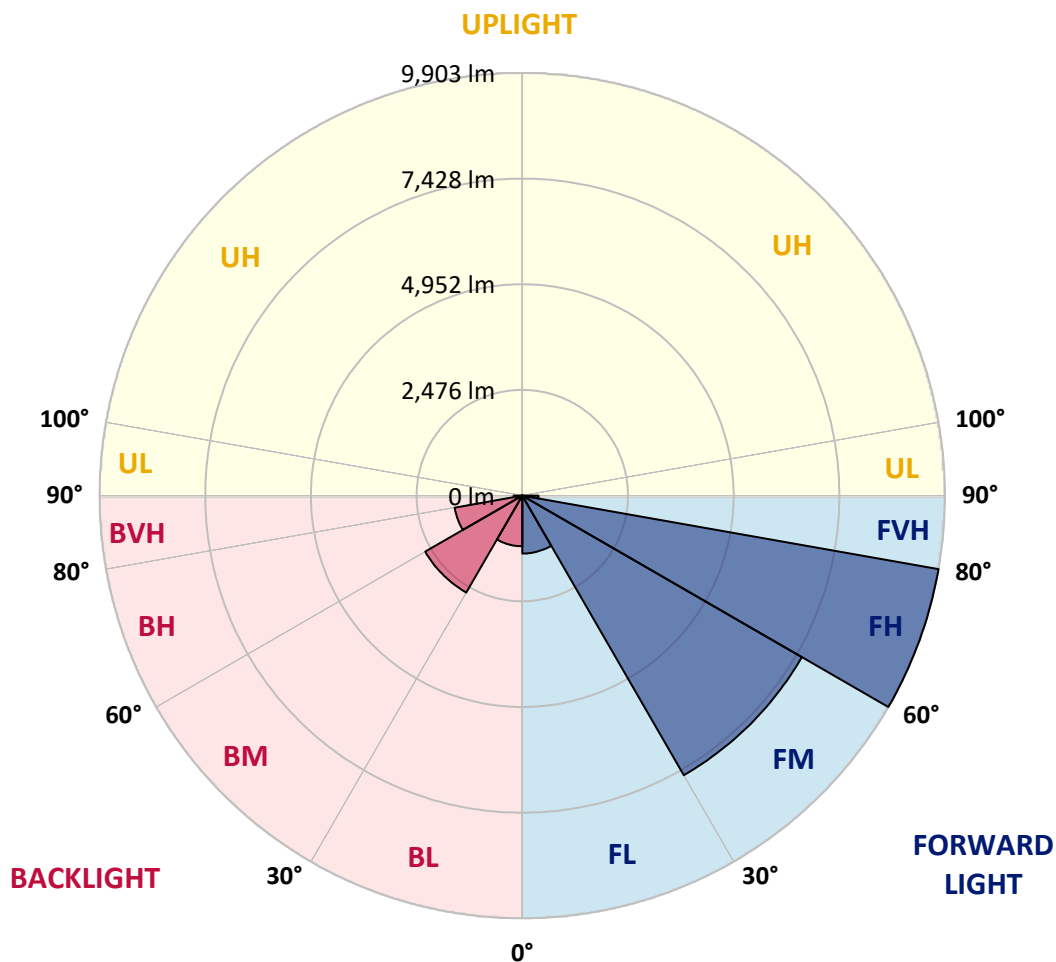
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1357.4	5.5			
FM	(30°-60°)	7563.1	30.5			
FH	(60°-80°)	9903.3	39.9			G4/12000
FVH	(80°-90°)	378.7	1.5			G3/500
BL	(0°-30°)	1186.2	4.8	B3/2500		
BM	(30°-60°)	2624.1	10.6	B3/5000		
BH	(60°-80°)	1609.0	6.5	B3/2500		G3/2500
BVH	(80°-90°)	201.1	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





REPORT NUMBER: P522809

CATALOG NUMBER: GALN-SA6B-827-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	2491.9	2491.9	2491.9	2491.9	2491.9	2491.9	2491.9	2491.9	2491.9	2491.9	2491.9
2.5°	2652.7	2643.4	2642.0	2622.1	2611.5	2591.6	2583.6	2565.0	2542.4	2519.8	2498.6
5°	2861.2	2861.2	2851.9	2824.0	2780.2	2735.0	2715.1	2679.2	2615.5	2563.7	2519.8
7.5°	3075.1	3077.7	3059.1	3017.9	2955.5	2882.5	2863.9	2810.7	2720.4	2644.7	2579.6
10°	3259.7	3259.7	3234.5	3178.7	3100.3	3020.6	3002.0	2942.2	2841.3	2747.0	2662.0
12.5°	3400.5	3400.5	3367.3	3294.2	3209.2	3137.5	3116.2	3059.1	2964.8	2859.9	2752.3
15°	3492.2	3485.5	3448.3	3366.0	3283.6	3221.2	3206.6	3158.7	3072.4	2966.1	2845.3
17.5°	3496.1	3493.5	3457.6	3388.5	3316.8	3274.3	3265.0	3233.1	3165.4	3064.4	2936.9
20°	3419.1	3424.4	3400.5	3351.4	3316.8	3298.2	3294.2	3283.6	3235.8	3141.5	3014.0
22.5°	3336.7	3346.0	3323.5	3296.9	3294.2	3312.8	3315.5	3318.1	3287.6	3195.9	3079.0
25°	3316.8	3323.5	3300.9	3277.0	3291.6	3340.7	3351.4	3362.0	3338.1	3261.0	3156.1
27.5°	3417.8	3412.5	3368.6	3316.8	3326.1	3392.5	3407.1	3419.1	3407.1	3340.7	3251.7
30°	3703.4	3686.1	3598.4	3447.0	3399.2	3445.7	3460.3	3493.5	3493.5	3444.3	3355.3
32.5°	4181.6	4148.3	3987.6	3690.1	3524.0	3496.1	3510.8	3565.2	3593.1	3554.6	3457.6
35°	4762.0	4727.5	4497.7	4097.9	3752.5	3597.1	3593.1	3654.2	3728.6	3642.3	3516.1
37.5°	5345.2	5309.3	5033.0	4584.0	4085.9	3809.6	3785.7	3807.0	3838.8	3680.8	3597.1
40°	5928.3	5885.8	5644.0	5127.3	4493.7	4091.2	4028.8	3933.2	3919.9	3807.0	3753.8
42.5°	6506.1	6467.6	6345.4	5737.0	4982.5	4366.2	4270.6	4105.8	4156.3	4088.6	4042.1
45°	7089.3	7091.9	6961.7	6421.1	5572.3	4873.6	4744.8	4487.1	4606.6	4581.4	4607.9
47.5°	7606.0	7599.3	7552.8	7085.3	6304.2	5527.1	5361.1	5062.2	5266.8	5359.8	5563.0
50°	8106.7	8102.8	8105.4	7838.4	7154.3	6304.2	6120.9	5807.4	6268.3	6591.1	6955.1
52.5°	8824.0	8846.6	8685.9	8615.5	8187.8	7222.1	7020.2	6696.1	7451.9	7960.6	8671.3
55°	9544.0	9525.4	9399.2	9472.3	9269.0	8308.6	8097.4	7839.8	8769.6	9326.1	10394.1
57.5°	9967.7	9974.4	10103.2	10460.5	10604.0	9663.5	9472.3	9273.0	10250.7	10645.2	11927.0
60°	10349.0	10379.5	10750.1	11424.9	11814.1	11327.9	11157.9	10964.0	11609.5	11766.3	13258.0
62.5°	10468.5	10562.8	11209.7	12219.2	12993.6	13206.2	12995.0	12567.2	12903.3	12842.2	14159.9
65°	9872.1	10000.9	11160.6	12516.8	14047.0	14988.8	14854.6	14060.3	14005.8	13637.9	14307.3
67.5°	8302.0	8430.9	9919.9	11892.5	14482.7	16532.3	16398.1	15149.5	14675.3	13712.3	13191.6
70°	6074.4	6155.4	7579.4	10012.9	13607.3	17050.3	17096.8	15680.8	14436.2	12701.4	10831.1
72.5°	3500.1	3679.4	4677.0	7044.1	11116.7	15740.6	16063.4	14575.7	12924.6	10596.0	7572.8
75°	1505.0	1509.0	2162.5	3885.3	7528.9	12652.3	12964.4	12082.4	10149.7	7327.0	4043.4
77.5°	716.0	729.2	951.1	1734.8	4144.4	8741.7	9583.8	8535.8	6491.5	3520.1	1527.6
80°	464.9	474.2	581.8	860.8	2032.3	5068.9	5656.0	4924.1	2863.9	1257.9	658.8
82.5°	281.6	284.3	389.2	526.0	1118.4	2295.3	2705.8	2137.3	1222.1	753.2	387.9
85°	171.4	172.7	236.4	325.4	678.8	793.0	814.3	807.6	717.3	492.8	207.2
87.5°	82.4	85.0	122.2	154.1	267.0	245.7	232.5	269.6	338.7	265.7	89.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P522809

CATALOG NUMBER: GALN-SA6B-827-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2491.9	2491.9	2491.9	2491.9	2491.9	2491.9	2491.9	2491.9	2491.9	2491.9	2491.9
2.5°	2489.3	2485.3	2476.0	2472.0	2469.3	2470.7	2469.3	2469.3	2470.7	2470.7	2470.7
5°	2501.2	2494.6	2480.0	2480.0	2487.9	2506.5	2523.8	2537.1	2551.7	2550.4	2550.4
7.5°	2553.0	2541.1	2523.8	2529.1	2549.0	2578.3	2608.8	2638.0	2667.3	2669.9	2668.6
10°	2628.7	2616.8	2598.2	2604.8	2636.7	2680.6	2719.1	2761.6	2793.5	2802.8	2800.1
12.5°	2715.1	2691.2	2675.2	2693.8	2744.3	2802.8	2840.0	2871.8	2894.4	2907.7	2902.4
15°	2802.8	2780.2	2761.6	2800.1	2861.2	2915.7	2934.3	2939.6	2943.6	2956.8	2954.2
17.5°	2887.8	2857.2	2850.6	2901.1	2959.5	2983.4	2972.8	2950.2	2932.9	2943.6	2942.2
20°	2963.5	2939.6	2936.9	2987.4	3010.0	2987.4	2942.2	2902.4	2871.8	2874.5	2873.2
22.5°	3035.2	3016.6	3019.3	3040.5	3004.7	2927.6	2853.2	2798.8	2765.6	2772.2	2776.2
25°	3114.9	3096.3	3103.0	3068.4	2950.2	2816.0	2708.4	2662.0	2648.7	2662.0	2671.3
27.5°	3218.5	3206.6	3202.6	3069.8	2853.2	2651.3	2529.1	2511.9	2523.8	2553.0	2567.6
30°	3330.1	3330.1	3308.8	3047.2	2720.4	2453.4	2347.1	2349.8	2391.0	2432.2	2446.8
32.5°	3437.7	3460.3	3393.9	2986.1	2549.0	2260.8	2179.8	2182.4	2218.3	2268.8	2282.1
35°	3526.7	3591.8	3466.9	2874.5	2347.1	2098.7	2037.6	2001.8	2003.1	2041.6	2052.3
37.5°	3648.9	3769.8	3509.4	2708.4	2132.0	1960.6	1891.5	1829.1	1787.9	1772.0	1772.0
40°	3861.4	4039.4	3520.1	2462.7	1928.7	1829.1	1730.8	1656.4	1576.7	1505.0	1491.7
42.5°	4221.4	4445.9	3498.8	2179.8	1745.4	1684.3	1588.7	1497.0	1386.8	1285.8	1277.8
45°	4859.0	4974.6	3441.7	1886.2	1582.0	1544.8	1451.9	1352.2	1235.3	1145.0	1138.4
47.5°	5880.5	5717.1	3366.0	1625.9	1433.3	1422.6	1350.9	1235.3	1118.4	1056.0	1049.4
50°	7372.2	6886.0	3355.3	1437.2	1313.7	1319.0	1260.6	1154.3	1052.0	1000.2	992.3
52.5°	9168.1	8298.0	3425.7	1304.4	1208.8	1228.7	1199.5	1101.2	1010.9	967.0	959.0
55°	10910.8	9567.9	3468.2	1200.8	1110.5	1147.7	1151.7	1069.3	986.9	943.1	937.8
57.5°	12325.5	10524.3	3279.6	1106.5	1025.5	1082.6	1111.8	1050.7	975.0	941.8	936.5
60°	13309.8	10975.9	2743.0	1022.8	963.0	1030.8	1097.2	1052.0	1004.2	1008.2	1010.9
62.5°	13623.3	10775.3	2057.6	960.4	920.5	1013.5	1121.1	1106.5	1057.3	1087.9	1093.2
65°	13103.9	9946.5	1491.7	911.2	883.3	1025.5	1192.8	1146.3	1038.7	1061.3	1061.3
67.5°	11365.1	8569.0	1161.0	866.1	840.8	1048.0	1264.6	1142.4	994.9	1021.5	997.6
70°	9015.3	6628.3	967.0	815.6	795.7	1014.8	1271.2	1101.2	943.1	948.4	903.3
72.5°	5982.8	4358.2	831.5	767.8	726.6	912.6	1216.7	1048.0	892.6	862.1	816.9
75°	2931.6	2173.1	725.3	708.0	636.3	794.3	1142.4	997.6	838.2	790.4	765.1
77.5°	1135.7	924.5	619.0	632.3	553.9	700.0	1044.1	925.8	766.4	701.4	681.4
80°	551.3	524.7	507.4	527.3	455.6	596.4	953.7	863.4	700.0	628.3	599.1
82.5°	342.7	324.1	389.2	410.5	350.7	544.6	904.6	810.3	616.3	520.7	496.8
85°	174.0	186.0	260.4	280.3	251.1	433.0	745.2	608.4	445.0	369.3	371.9
87.5°	66.4	89.0	136.8	147.4	134.2	228.5	410.5	354.7	285.6	193.9	179.3
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)