

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: P453367

Luminaire Tested: **GALN-SA4B-827-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453367  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4B-827-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16518 lumens  
Efficiency: N/A  
Efficacy: 100.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

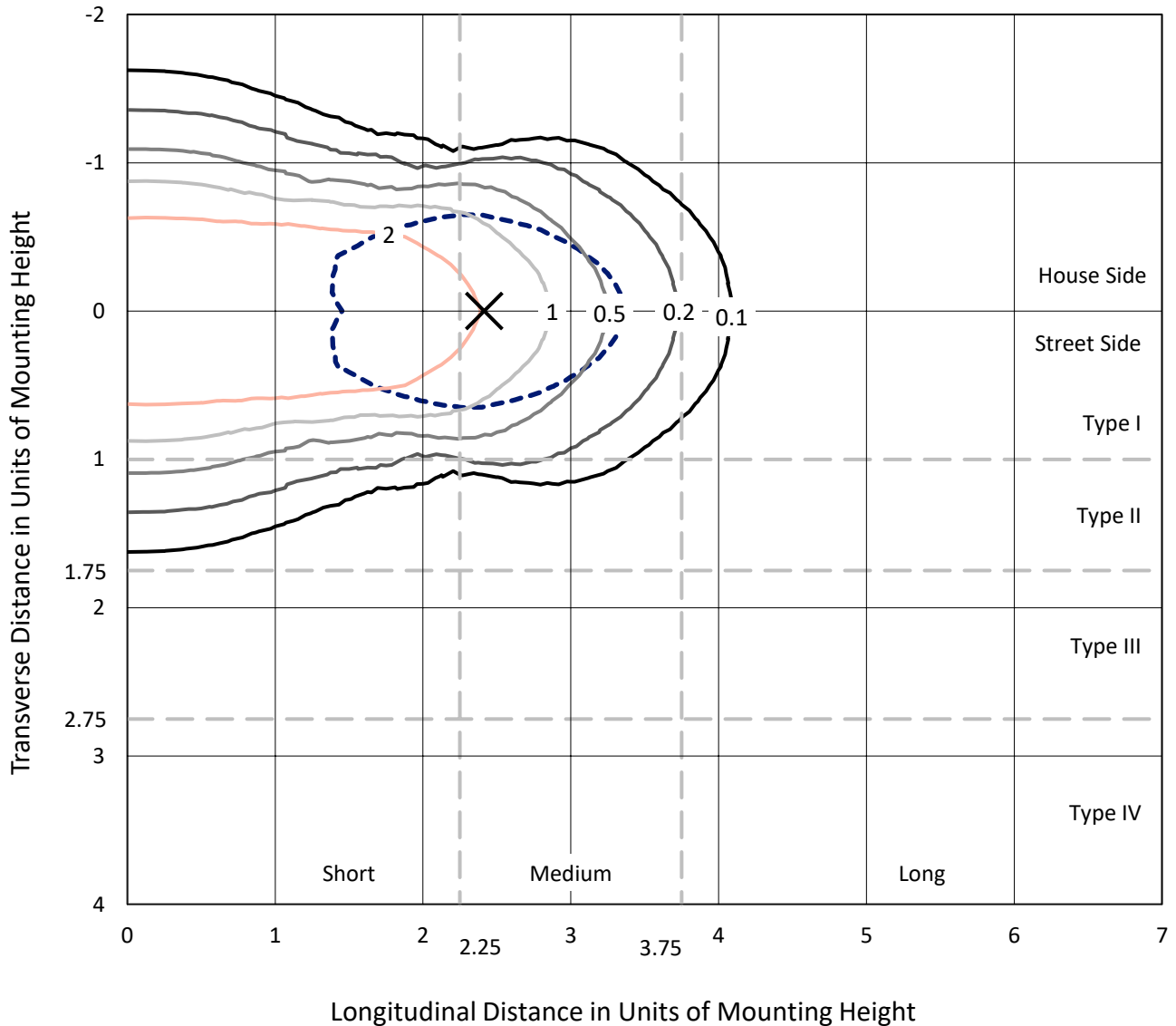
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

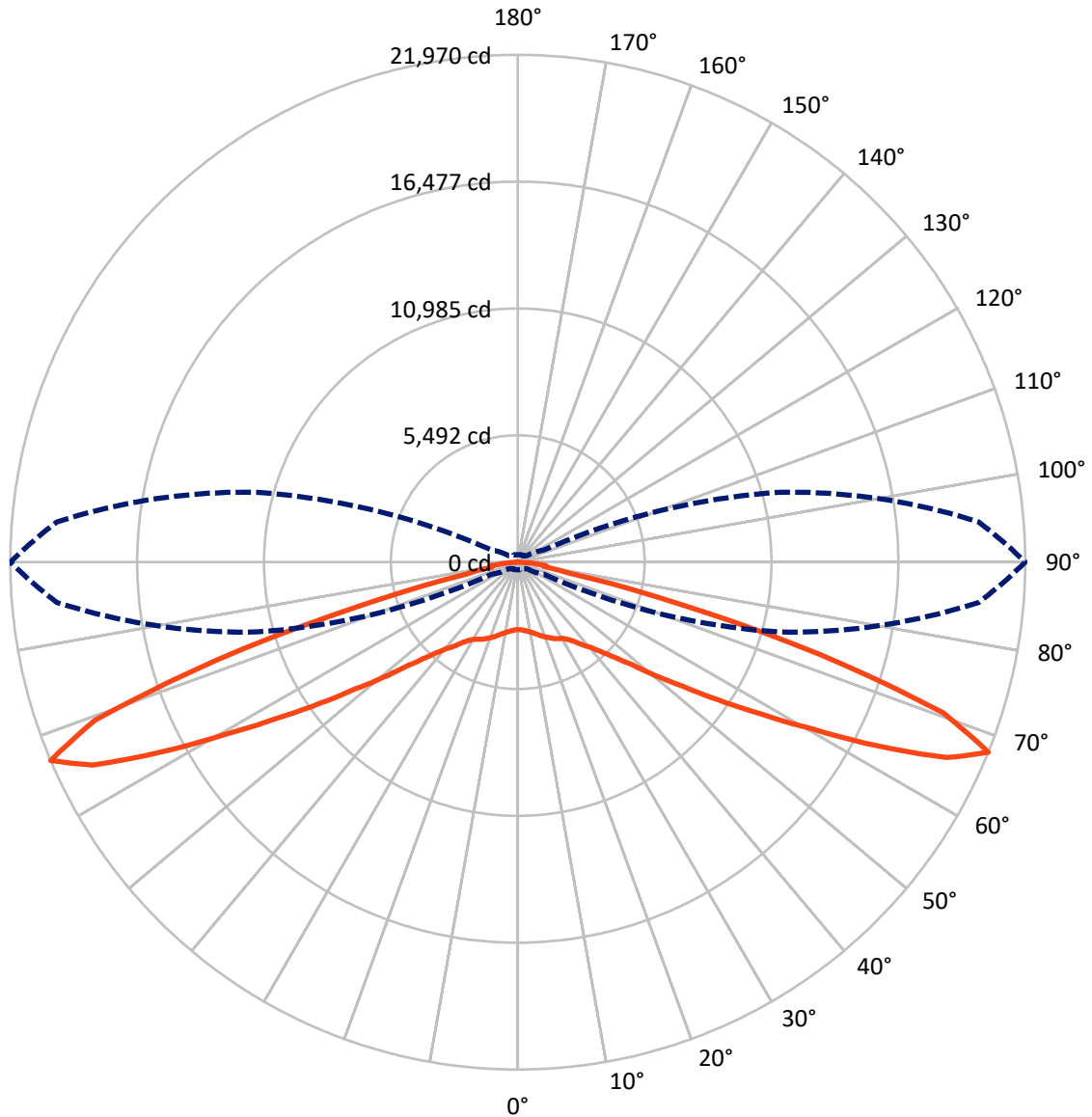
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8259.0	0.0	8259.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8259.0	0.0	8259.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16518.0	0.0	16518.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	291.5	1.8
10°-20°	932.8	5.6
20°-30°	1561.2	9.5
30°-40°	2115.1	12.8
40°-50°	2679.1	16.2
50°-60°	3346.8	20.3
60°-70°	3934.1	23.8
70°-80°	1505.0	9.1
80°-90°	152.5	0.9
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°	16518.0	100.0
0°-180°	16518.0	100.0

**Coefficient of Utilization**



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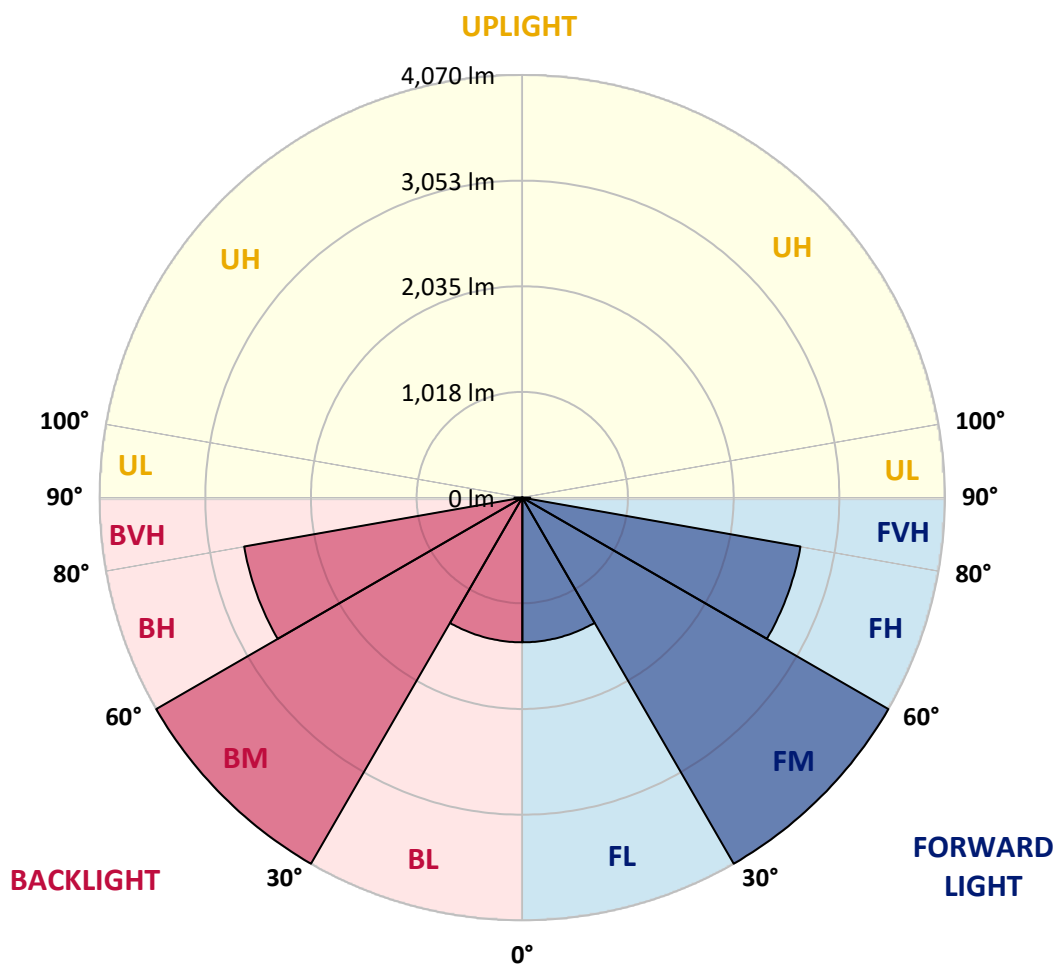
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1392.8	8.4			
FM	(30°-60°)	4070.5	24.6			
FH	(60°-80°)	2719.5	16.5			G2/5000
FVH	(80°-90°)	76.2	0.5			G1/100
BL	(0°-30°)	1392.8	8.4	B3/2500		
BM	(30°-60°)	4070.5	24.6	B3/5000		
BH	(60°-80°)	2719.5	16.5	B4/5000		G4/5000
BVH	(80°-90°)	76.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2924.2	2924.2	2924.2	2924.2	2924.2	2924.2	2924.2	2924.2	2924.2	2924.2	2924.2
2.5°	2961.7	2959.9	2960.8	2959.9	2962.6	2960.8	2949.8	2940.7	2933.3	2934.3	2931.5
5°	3024.8	3025.7	3026.6	3022.1	3028.5	3024.8	3007.4	2992.8	2978.2	2972.7	2970.8
7.5°	3077.0	3081.5	3084.3	3088.8	3099.8	3099.8	3090.7	3069.6	3037.6	3019.3	3018.4
10°	3129.1	3132.7	3141.0	3155.6	3173.9	3191.3	3187.6	3159.3	3118.1	3087.0	3079.7
12.5°	3147.4	3152.0	3179.4	3221.5	3262.6	3296.5	3296.5	3273.6	3220.6	3173.0	3159.3
15°	3083.4	3091.6	3141.0	3230.6	3338.5	3412.6	3429.1	3397.1	3340.4	3267.2	3250.7
17.5°	2956.2	2976.3	3048.6	3181.2	3360.5	3514.2	3561.7	3546.2	3473.0	3379.7	3360.5
20°	2819.9	2841.9	2918.7	3094.3	3342.2	3573.6	3711.7	3715.4	3624.8	3489.5	3461.1
22.5°	2669.9	2686.4	2785.2	2991.0	3287.3	3587.3	3840.7	3903.8	3781.2	3599.2	3559.0
25°	2501.6	2519.9	2623.3	2845.5	3184.0	3571.8	3958.7	4097.7	3945.0	3716.3	3665.1
27.5°	2340.6	2348.0	2458.6	2684.6	3047.7	3531.5	4045.6	4276.1	4126.1	3813.3	3748.3
30°	2186.1	2203.4	2301.3	2524.5	2891.3	3452.9	4120.6	4479.1	4320.9	3914.8	3831.6
32.5°	2022.3	2043.4	2149.5	2375.4	2734.9	3334.9	4166.3	4701.4	4592.6	4079.4	3990.7
35°	1865.0	1878.7	1985.7	2205.3	2582.1	3197.7	4174.6	4952.0	4942.9	4329.1	4211.1
37.5°	1704.0	1724.2	1832.1	2042.5	2420.2	3052.3	4133.4	5218.2	5365.5	4675.8	4548.7
40°	1549.5	1566.8	1672.9	1885.1	2236.4	2874.8	4035.5	5461.5	5858.5	5032.5	4852.3
42.5°	1381.2	1385.7	1501.9	1717.8	2056.2	2669.0	3894.7	5678.3	6408.2	5510.9	5286.8
45°	1190.0	1201.9	1309.8	1522.0	1849.5	2438.5	3703.5	5857.5	7105.2	6174.0	5868.5
47.5°	998.8	1008.9	1107.7	1317.1	1623.5	2174.2	3409.0	6014.9	7820.4	7016.4	6615.8
50°	812.2	817.7	898.2	1083.9	1369.3	1896.1	3044.0	6065.2	8629.0	8209.2	7697.9
52.5°	642.1	650.3	711.6	857.0	1097.6	1567.7	2649.8	5940.8	9572.9	9623.2	8902.5
55°	520.4	523.2	568.9	675.9	858.0	1223.8	2174.2	5594.1	10588.2	11435.2	10516.0
57.5°	448.2	450.0	475.6	535.1	660.4	922.9	1686.7	4938.3	11500.1	13558.2	12376.4
60°	407.0	407.9	422.6	457.3	523.2	708.0	1208.3	4012.7	12400.2	15920.7	14688.7
62.5°	381.4	381.4	391.5	410.7	442.7	543.3	875.3	2894.9	13016.7	18318.1	17538.8
65°	356.7	356.7	364.0	377.8	395.1	444.5	646.7	1887.9	13001.1	20064.2	20405.4
67.5°	328.4	328.4	333.9	347.6	357.6	382.3	499.4	1236.6	11678.5	20025.8	21969.5
70°	294.5	294.5	301.8	313.7	322.0	337.5	394.2	846.1	8579.6	17098.8	19538.3
72.5°	260.7	261.6	266.2	278.1	284.5	293.6	327.5	592.7	5263.0	11642.8	13661.5
75°	223.2	225.0	229.6	241.5	247.0	250.6	276.2	422.6	2662.6	6277.4	7147.2
77.5°	180.2	183.8	186.6	199.4	203.1	208.5	227.8	305.5	1168.9	2255.6	2275.7
80°	131.7	136.3	144.5	156.4	159.2	162.8	173.8	216.8	529.6	1029.9	1118.6
82.5°	97.0	103.4	93.3	108.8	108.8	104.3	122.6	145.4	243.3	1019.9	1220.2
85°	53.1	54.0	48.5	55.8	59.5	58.5	64.9	71.3	118.0	680.5	701.6
87.5°	12.8	13.7	14.6	17.4	21.0	21.0	22.9	20.1	38.4	220.4	126.2
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)