

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: P454991

Luminaire Tested: **GALN-SA6A-827-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454991  
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-SA6A-827-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19900 lumens  
Efficiency: N/A  
Efficacy: 109.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

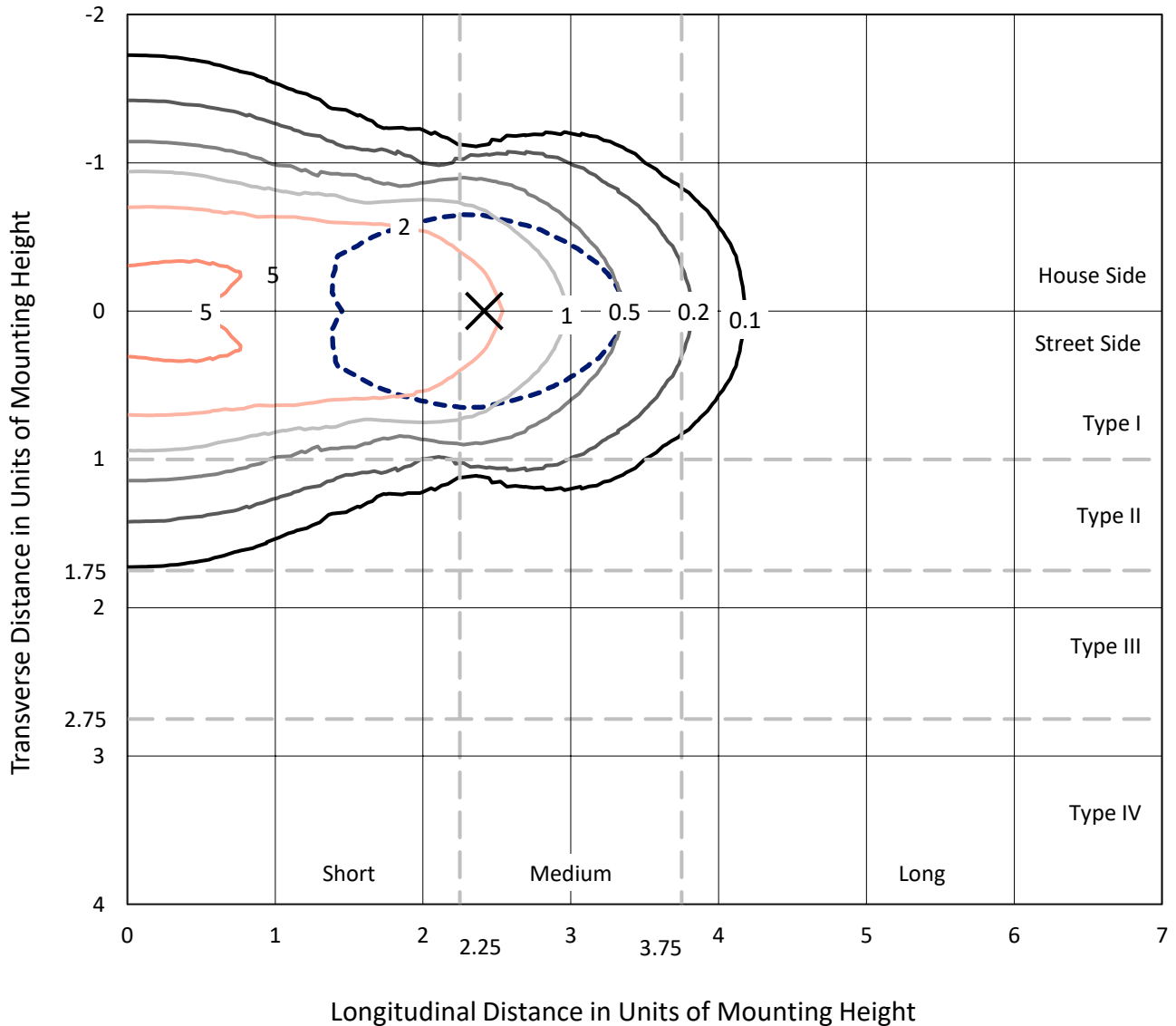
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

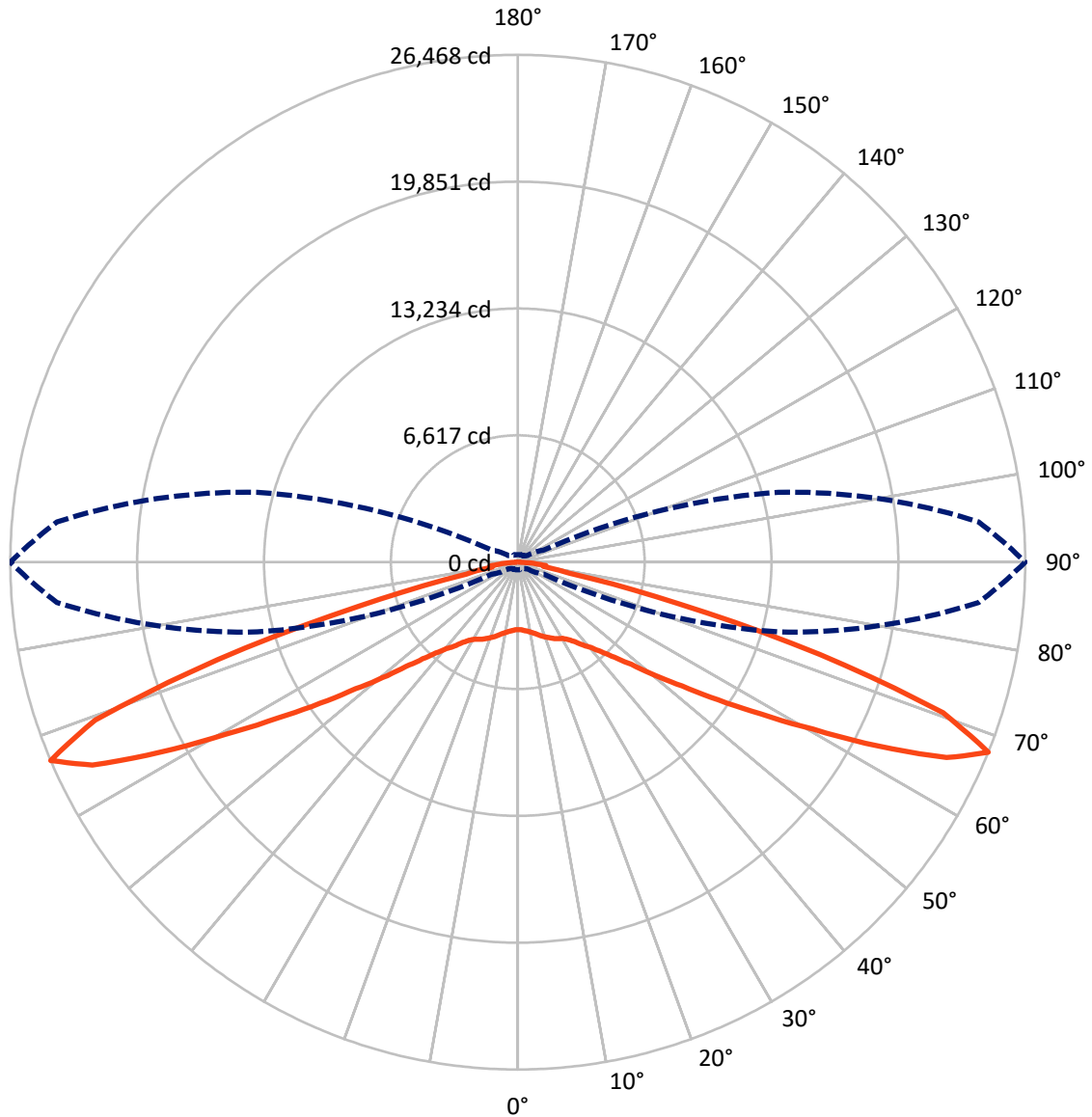
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	9950.0	0.0	9950.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9950.0	0.0	9950.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19900.0	0.0	19900.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	351.2	1.8
10°-20°	1123.8	5.6
20°-30°	1880.9	9.5
30°-40°	2548.1	12.8
40°-50°	3227.6	16.2
50°-60°	4032.1	20.3
60°-70°	4739.5	23.8
70°-80°	1813.1	9.1
80°-90°	183.7	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°	19900.0	100.0
0°-180°	19900.0	100.0



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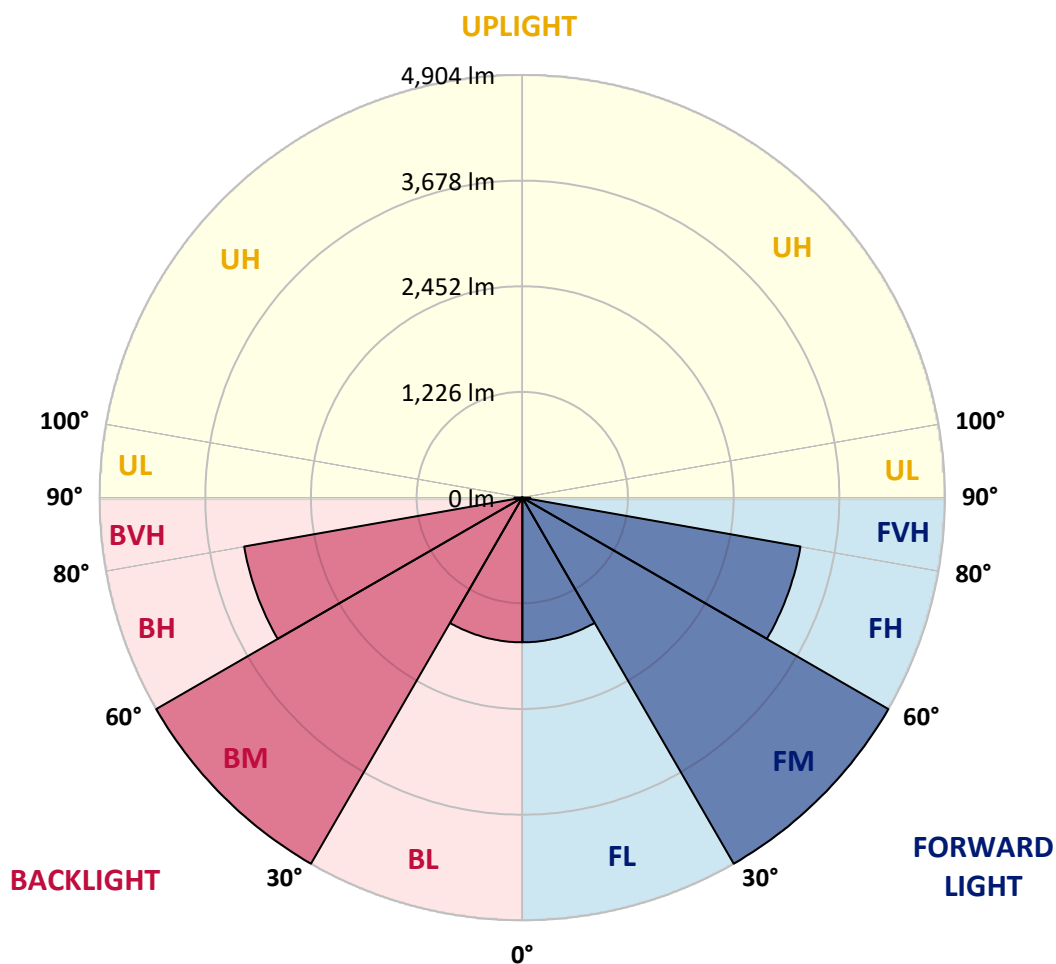
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1677.9	8.4			
FM (30°-60°)	4903.9	24.6			
FH (60°-80°)	3276.3	16.5			G2/5000
FVH (80°-90°)	91.8	0.5			G1/100
BL (0°-30°)	1677.9	8.4	B3/2500		
BM (30°-60°)	4903.9	24.6	B3/5000		
BH (60°-80°)	3276.3	16.5	B4/5000		G4/5000
BVH (80°-90°)	91.8	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°	3522.9	3522.9	3522.9	3522.9	3522.9	3522.9	3522.9	3522.9	3522.9	3522.9	3522.9
2.5°	3568.1	3565.9	3567.0	3565.9	3569.2	3567.0	3553.8	3542.8	3533.9	3535.0	3531.7
5°	3644.1	3645.2	3646.3	3640.8	3648.5	3644.1	3623.2	3605.6	3587.9	3581.3	3579.1
7.5°	3706.9	3712.5	3715.8	3721.3	3734.5	3734.5	3723.5	3698.1	3659.6	3637.5	3636.4
10°	3769.8	3774.2	3784.1	3801.7	3823.8	3844.7	3840.3	3806.1	3756.5	3719.1	3710.3
12.5°	3791.8	3797.3	3830.4	3881.1	3930.6	3971.4	3971.4	3943.9	3879.9	3822.6	3806.1
15°	3714.7	3724.6	3784.1	3892.1	4022.1	4111.4	4131.2	4092.6	4024.3	3936.1	3916.3
17.5°	3561.5	3585.7	3672.8	3832.6	4048.5	4233.7	4291.0	4272.2	4184.1	4071.7	4048.5
20°	3397.3	3423.7	3516.3	3727.9	4026.5	4305.3	4471.7	4476.1	4367.0	4203.9	4169.8
22.5°	3216.6	3236.4	3355.4	3603.4	3960.4	4321.8	4627.1	4703.1	4555.4	4336.2	4287.7
25°	3013.8	3035.9	3160.4	3428.2	3835.9	4303.1	4769.2	4936.7	4752.7	4477.2	4415.5
27.5°	2819.9	2828.7	2962.0	3234.2	3671.7	4254.6	4873.9	5151.6	4970.9	4594.0	4515.8
30°	2633.6	2654.6	2772.5	3041.4	3483.2	4159.8	4964.3	5396.2	5205.6	4716.3	4616.0
32.5°	2436.4	2461.7	2589.6	2861.8	3294.8	4017.7	5019.4	5664.0	5532.9	4914.7	4807.8
35°	2246.9	2263.4	2392.3	2656.8	3110.8	3852.4	5029.3	5965.9	5954.9	5215.5	5073.4
37.5°	2052.9	2077.2	2207.2	2460.6	2915.7	3677.2	4979.7	6286.6	6464.0	5633.1	5480.0
40°	1866.7	1887.6	2015.5	2271.1	2694.3	3463.4	4861.8	6579.7	7058.0	6062.9	5845.8
42.5°	1663.9	1669.4	1809.4	2069.5	2477.2	3215.5	4692.1	6840.9	7720.2	6639.2	6369.2
45°	1433.6	1448.0	1578.0	1833.6	2228.1	2937.8	4461.8	7056.9	8559.9	7438.1	7070.1
47.5°	1203.3	1215.4	1334.5	1586.8	1956.0	2619.3	4107.0	7246.4	9421.6	8453.0	7970.4
50°	978.5	985.1	1082.1	1305.8	1649.6	2284.3	3667.3	7307.0	10395.8	9890.0	9274.0
52.5°	773.6	783.5	857.3	1032.5	1322.3	1888.7	3192.3	7157.1	11533.0	11593.6	10725.2
55°	627.0	630.3	685.4	814.3	1033.6	1474.4	2619.3	6739.5	12756.1	13776.5	12669.1
57.5°	540.0	542.2	573.0	644.6	795.6	1111.9	2032.0	5949.4	13854.8	16334.1	14910.4
60°	490.4	491.5	509.1	551.0	630.3	852.9	1455.7	4834.2	14939.1	19180.5	17696.1
62.5°	459.5	459.5	471.6	494.8	533.3	654.6	1054.6	3487.7	15681.8	22068.7	21129.8
65°	429.8	429.8	438.6	455.1	476.0	535.5	779.1	2274.4	15663.1	24172.3	24583.3
67.5°	395.6	395.6	402.2	418.7	430.9	460.6	601.7	1489.8	14069.6	24126.0	26467.6
70°	354.8	354.8	363.6	378.0	387.9	406.6	474.9	1019.3	10336.2	20599.8	23538.7
72.5°	314.1	315.2	320.7	335.0	342.7	353.7	394.5	714.1	6340.6	14026.7	16458.7
75°	268.9	271.1	276.6	290.9	297.5	301.9	332.8	509.1	3207.8	7562.7	8610.6
77.5°	217.1	221.5	224.8	240.2	244.6	251.2	274.4	368.0	1408.3	2717.4	2741.6
80°	158.7	164.2	174.1	188.4	191.7	196.1	209.4	261.2	638.0	1240.8	1347.7
82.5°	116.8	124.5	112.4	131.1	131.1	125.6	147.7	175.2	293.1	1228.7	1470.0
85°	63.9	65.0	58.4	67.2	71.6	70.5	78.2	86.0	142.2	819.8	845.2
87.5°	15.4	16.5	17.6	20.9	25.3	25.3	27.5	24.2	46.3	265.6	152.1
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)