

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: P652327

Luminaire Tested: **GALN-SA4B-840-U-RW-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652327  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4B-840-U-RW-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16587.9 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

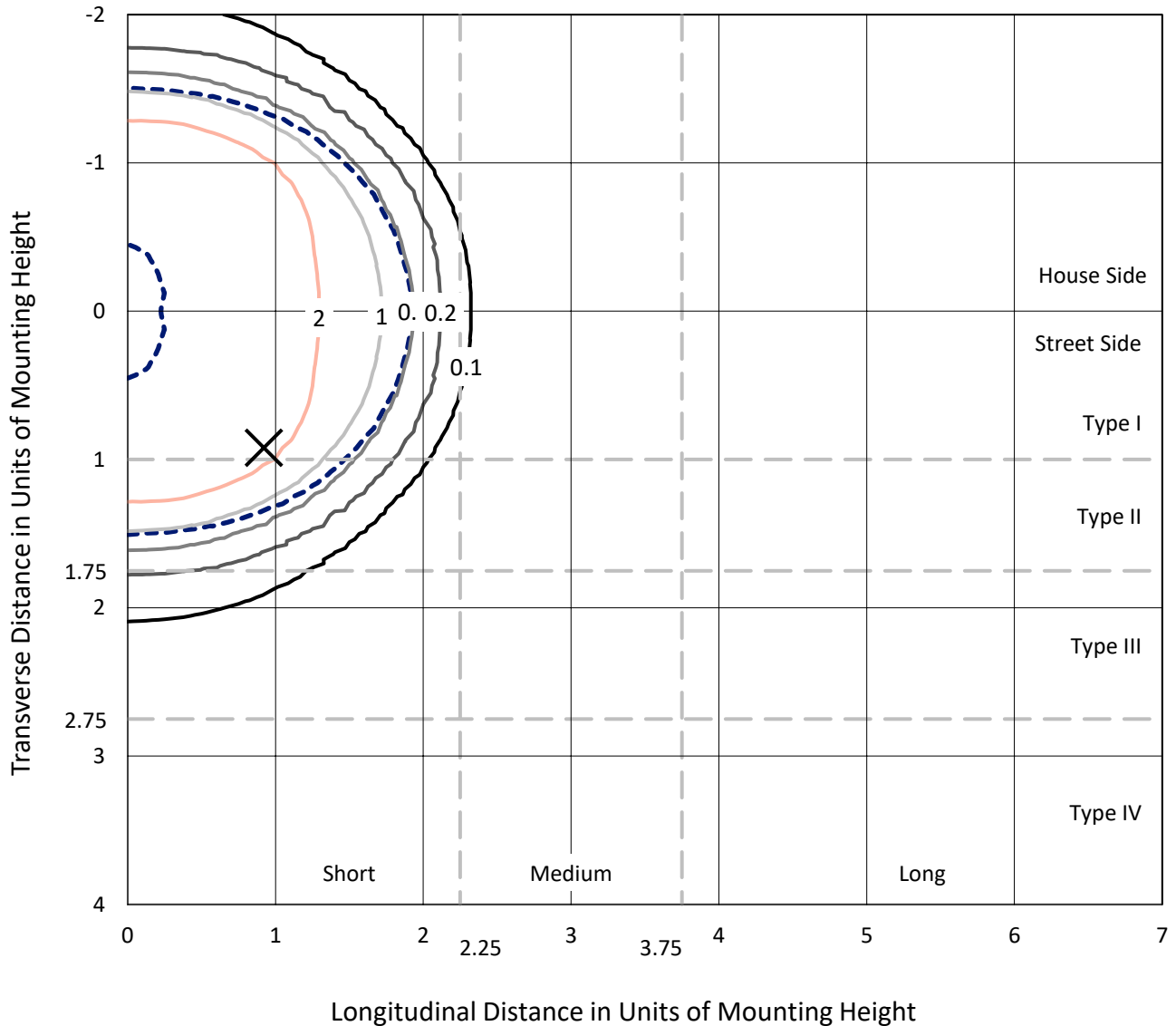
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

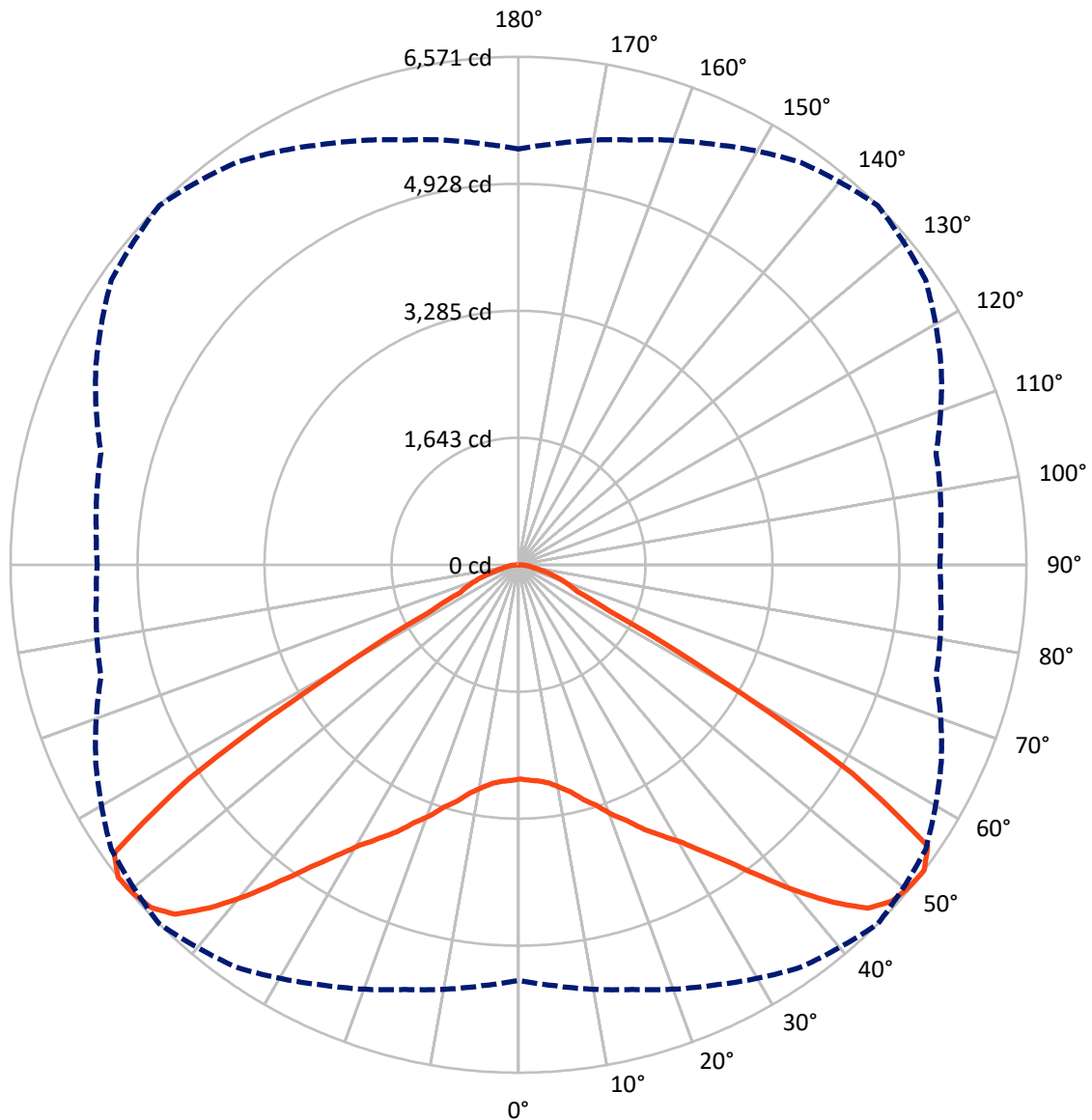
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8294.0	0.0	8294.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8294.0	0.0	8294.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16587.9	0.0	16587.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	272.4	1.6
10°-20°	895.2	5.4
20°-30°	1704.3	10.3
30°-40°	2926.4	17.6
40°-50°	4498.0	27.1
50°-60°	4567.6	27.5
60°-70°	1272.9	7.7
70°-80°	375.5	2.3
80°-90°	75.6	0.5
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°	16587.9	100.0
0°-180°	16587.9	100.0

**Coefficient of Utilization**

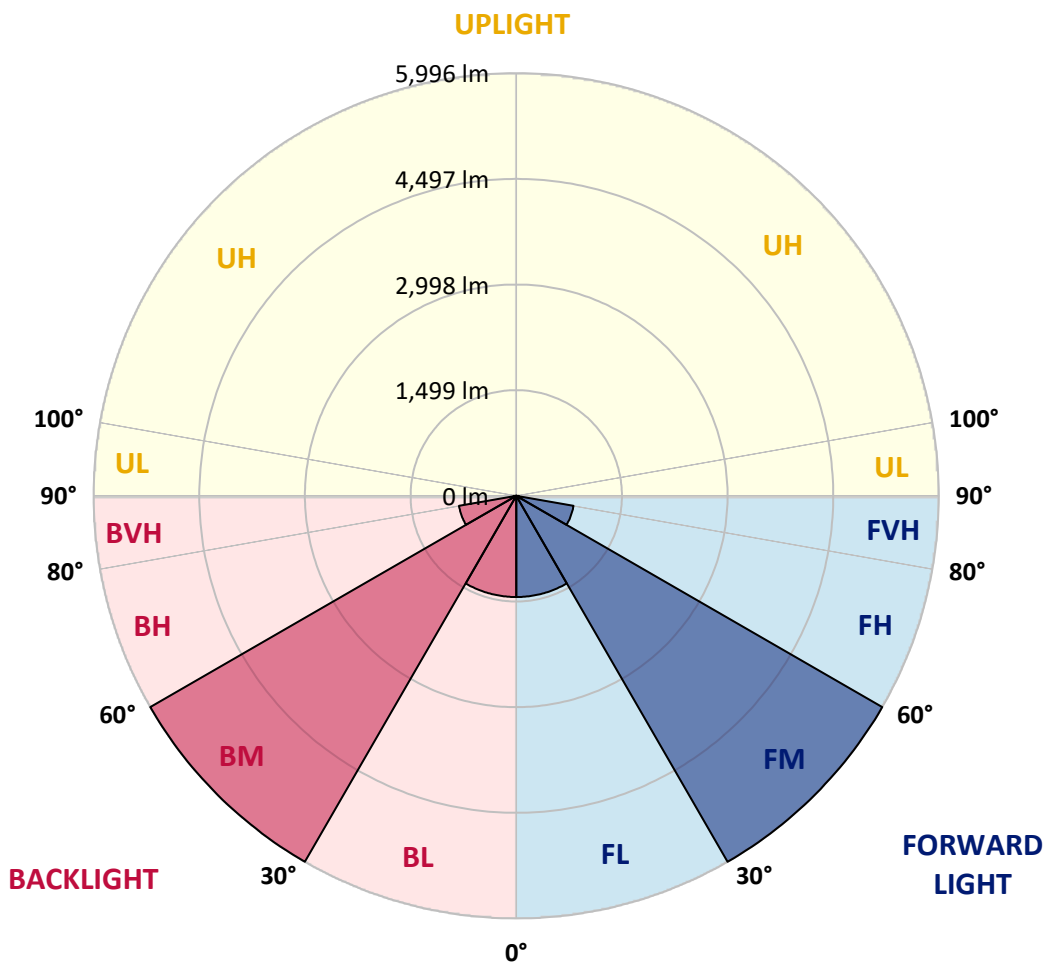


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1436.0	8.7			
FM (30°-60°)	5996.0	36.1			
FH (60°-80°)	824.2	5.0			G1/1800
FVH (80°-90°)	37.8	0.2			G1/100
BL (0°-30°)	1436.0	8.7	B3/2500		
BM (30°-60°)	5996.0	36.1	B4/8500		
BH (60°-80°)	824.2	5.0	B2/1000		G1/1800
BVH (80°-90°)	37.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2772.9	2772.9	2772.9	2772.9	2772.9	2772.9	2772.9	2772.9	2772.9	2772.9	2772.9
2.5°	2779.1	2750.2	2760.5	2766.7	2793.5	2791.4	2785.2	2793.5	2801.7	2803.7	2799.6
5°	2777.0	2756.4	2764.6	2770.8	2797.6	2812.0	2807.8	2842.9	2867.6	2861.4	2892.3
7.5°	2760.5	2772.9	2762.6	2793.5	2816.1	2851.1	2888.2	2921.1	2952.0	2987.0	2993.1
10°	2797.6	2797.6	2816.1	2840.8	2900.5	2927.3	2980.8	3028.1	3087.8	3129.0	3112.5
12.5°	2836.7	2842.9	2842.9	2906.7	2956.1	3015.8	3065.2	3129.0	3213.4	3262.8	3287.6
15°	2875.8	2879.9	2900.5	2987.0	3061.1	3155.8	3201.1	3258.7	3306.1	3398.6	3400.8
17.5°	2910.8	2933.5	2995.2	3091.9	3184.6	3275.2	3347.3	3406.9	3448.1	3485.1	3476.9
20°	3042.6	3059.1	3122.8	3219.6	3357.5	3446.0	3470.7	3481.1	3507.8	3581.9	3559.3
22.5°	3170.1	3176.4	3236.1	3384.3	3481.1	3598.4	3625.1	3619.0	3629.3	3647.8	3680.7
25°	3301.9	3312.2	3394.5	3520.2	3656.0	3796.0	3818.6	3771.3	3756.9	3777.4	3779.5
27.5°	3470.7	3472.8	3577.8	3686.9	3841.3	3973.1	4008.0	3970.9	3903.0	3919.5	3946.2
30°	3684.8	3670.4	3775.4	3931.8	4094.5	4168.6	4228.3	4209.8	4135.6	4121.2	4098.6
32.5°	3931.8	3936.0	4030.7	4201.6	4308.6	4432.1	4495.9	4465.0	4417.7	4393.0	4407.3
35°	4279.8	4298.3	4362.1	4504.1	4677.1	4738.8	4839.7	4773.8	4650.3	4681.2	4707.9
37.5°	4565.9	4619.4	4738.8	4907.6	5010.5	5123.8	5160.8	5072.3	4981.7	4944.7	5033.2
40°	5004.4	4987.9	5119.7	5288.5	5440.8	5554.0	5506.6	5418.1	5193.8	5195.8	5220.5
42.5°	5381.1	5389.3	5490.2	5691.9	5899.9	5969.8	5819.6	5603.4	5354.3	5327.6	5381.1
45°	5698.1	5731.1	5788.7	6058.3	6262.2	6338.3	6060.4	5805.2	5471.6	5360.5	5449.0
47.5°	5811.3	5864.9	5990.4	6237.4	6439.2	6500.9	6278.7	5912.2	5580.8	5399.6	5447.0
50°	5827.8	5809.3	6015.1	6241.6	6418.6	6552.4	6356.9	5990.4	5554.0	5459.3	5444.9
52.5°	5376.9	5467.5	5687.8	5998.7	6356.9	6570.9	6426.8	6033.7	5591.1	5484.0	5449.0
55°	4351.8	4244.8	4646.2	5169.0	5827.8	6422.7	6402.1	6056.3	5613.7	5525.2	5477.9
57.5°	2429.1	2460.0	2686.4	3254.6	4104.8	5092.8	5691.9	5817.5	5603.4	5551.9	5576.7
60°	1124.0	1134.3	1231.1	1496.6	2023.5	2888.2	3676.6	4477.4	4845.8	4919.9	4919.9
62.5°	837.8	833.7	858.4	905.8	1016.9	1327.8	1772.4	2408.5	2914.9	3269.0	3361.6
65°	757.6	755.5	767.8	784.3	792.6	835.8	934.6	1130.1	1294.8	1389.5	1373.1
67.5°	662.9	660.8	664.9	675.2	689.6	712.2	737.0	778.2	835.8	831.7	821.4
70°	535.2	535.2	541.4	549.7	566.1	592.9	621.7	650.5	699.9	710.2	708.1
72.5°	395.3	389.0	401.4	417.9	434.4	467.3	498.2	525.0	559.9	570.2	566.1
75°	251.1	255.2	263.5	282.0	310.8	333.5	366.4	389.0	411.8	419.9	422.0
77.5°	139.9	144.1	158.5	181.2	210.0	234.6	263.5	282.0	296.5	298.5	300.6
80°	84.4	86.5	100.8	121.4	146.2	172.9	195.5	214.1	226.5	220.3	218.2
82.5°	51.5	53.5	65.9	84.4	105.0	125.6	150.3	166.8	179.1	170.9	162.6
85°	26.7	28.8	39.1	51.5	68.0	78.2	78.2	70.0	68.0	63.8	61.7
87.5°	8.2	8.2	10.3	12.4	10.3	12.4	14.4	16.5	16.5	18.5	16.5
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)