

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: P651338

Luminaire Tested: **GALN-SA4D-840-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651338  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4D-840-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26553.7 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4

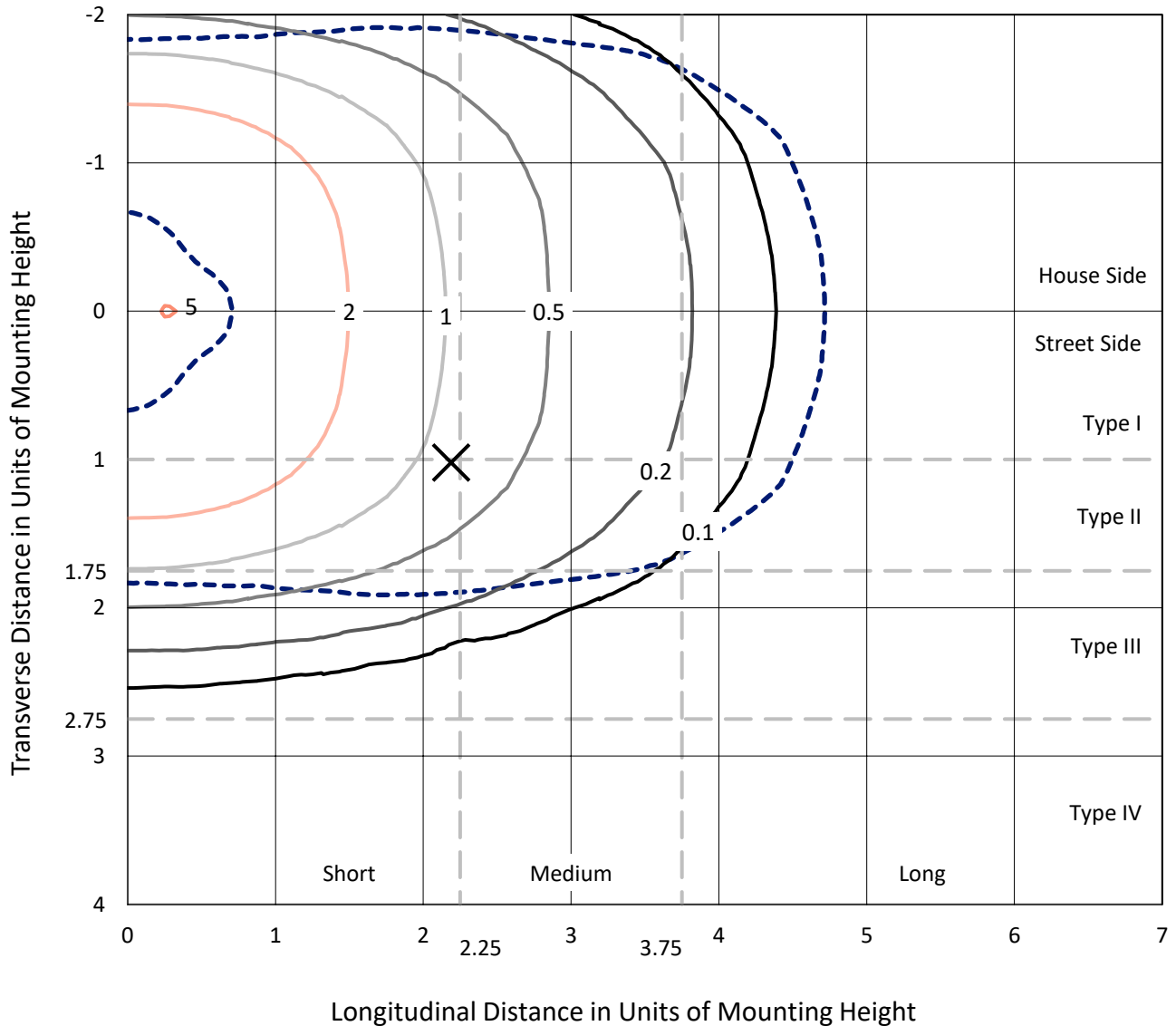
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

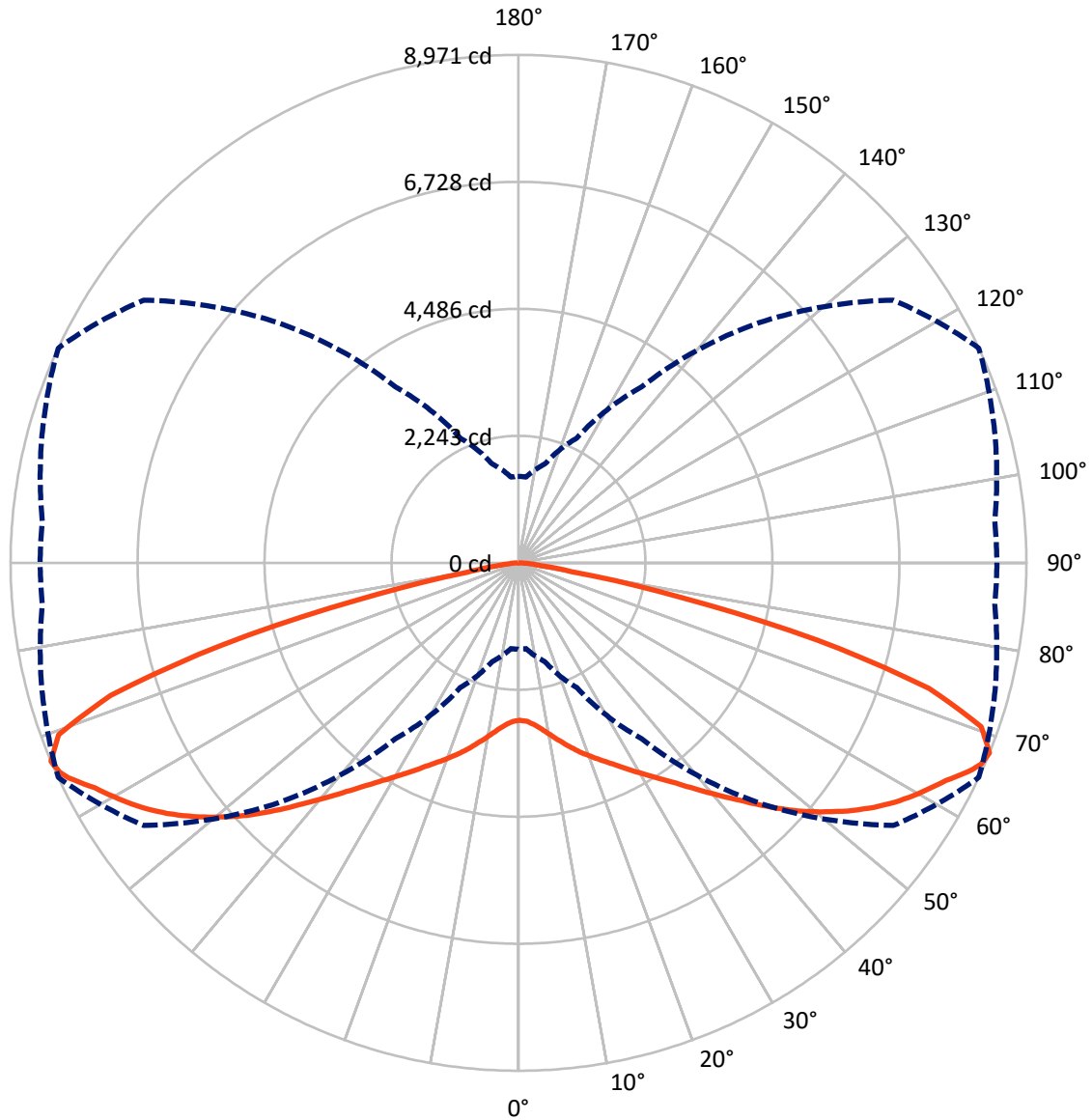
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13276.9	0.0	13276.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13276.9	0.0	13276.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	26553.7	0.0	26553.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	274.3	1.0
10°-20°	918.1	3.5
20°-30°	1795.8	6.8
30°-40°	3054.5	11.5
40°-50°	4834.3	18.2
50°-60°	6410.2	24.1
60°-70°	6046.8	22.8
70°-80°	2989.2	11.3
80°-90°	230.4	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°	26553.7	100.0
0°-180°	26553.7	100.0

**Coefficient of Utilization**



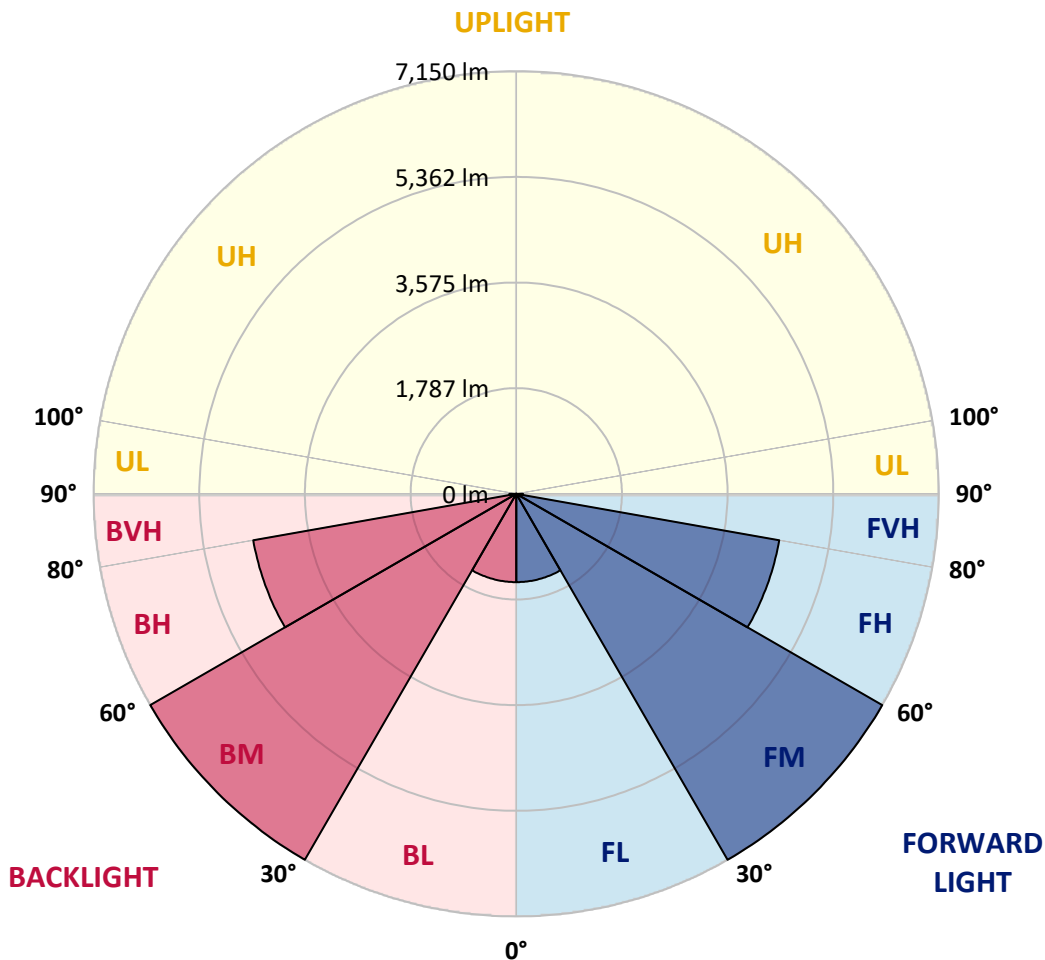
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1494.1	5.6			
FM (30°-60°)	7149.5	26.9			
FH (60°-80°)	4518.0	17.0			G2/5000
FVH (80°-90°)	115.2	0.4			G2/225
BL (0°-30°)	1494.1	5.6	B3/2500		
BM (30°-60°)	7149.5	26.9	B4/8500		
BH (60°-80°)	4518.0	17.0	B4/5000		G4/5000
BVH (80°-90°)	115.2	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2781.3	2781.3	2781.3	2781.3	2781.3	2781.3	2781.3	2781.3	2781.3	2781.3	2781.3
2.5°	2767.1	2769.9	2772.7	2777.0	2782.7	2791.2	2796.9	2801.2	2812.6	2814.0	2812.6
5°	2757.1	2759.9	2767.1	2779.8	2798.3	2823.9	2843.8	2868.1	2886.6	2899.3	2896.5
7.5°	2755.6	2761.3	2772.7	2799.8	2835.3	2879.4	2925.0	2966.2	3001.8	3030.2	3026.0
10°	2778.4	2785.6	2804.1	2843.8	2899.3	2963.3	3027.3	3088.6	3139.8	3176.8	3189.6
12.5°	2816.8	2822.6	2856.7	2916.4	2996.1	3075.8	3148.3	3223.7	3294.9	3357.4	3357.4
15°	2883.7	2893.6	2936.4	3023.1	3121.3	3213.7	3287.7	3367.4	3444.2	3515.4	3536.7
17.5°	2976.1	2990.4	3054.4	3165.4	3290.6	3375.9	3445.7	3511.1	3578.0	3646.2	3656.2
20°	3102.8	3117.0	3202.4	3336.1	3484.1	3586.4	3633.5	3649.1	3681.8	3747.2	3755.8
22.5°	3274.9	3289.2	3384.4	3535.3	3700.3	3811.2	3831.2	3794.2	3785.7	3836.9	3842.5
25°	3469.8	3482.7	3592.2	3754.4	3925.1	4046.0	4040.3	3949.3	3898.0	3929.3	3937.9
27.5°	3688.9	3707.4	3818.4	3986.3	4171.2	4277.9	4260.8	4128.6	4019.0	4013.3	4016.1
30°	3969.2	3989.1	4094.4	4255.1	4437.2	4535.4	4499.9	4322.0	4152.7	4095.8	4095.8
32.5°	4265.0	4314.9	4421.6	4589.4	4731.7	4802.9	4748.8	4535.4	4310.6	4230.9	4226.7
35°	4650.6	4677.6	4782.9	4946.5	5053.2	5108.7	5004.9	4775.8	4516.9	4423.0	4410.2
37.5°	5027.7	5050.4	5172.7	5329.2	5458.7	5455.8	5315.0	5061.7	4773.0	4667.7	4659.1
40°	5413.2	5437.3	5576.8	5720.5	5849.9	5838.6	5667.8	5384.7	5077.5	4959.4	4982.1
42.5°	5747.5	5774.5	5932.4	6137.3	6253.9	6251.1	6053.3	5734.7	5414.6	5309.3	5329.2
45°	6051.9	6076.1	6259.6	6494.4	6665.1	6686.5	6470.1	6133.0	5804.4	5669.3	5674.9
47.5°	6266.7	6312.3	6504.3	6773.2	7005.1	7080.5	6868.5	6538.4	6160.1	6019.2	6027.8
50°	6430.4	6458.8	6668.0	6973.8	7266.8	7423.3	7252.6	6914.0	6515.7	6366.4	6386.2
52.5°	6450.3	6484.4	6712.0	7064.8	7440.4	7678.0	7594.1	7281.1	6878.5	6724.8	6767.5
55°	6288.1	6308.0	6579.7	7008.0	7508.7	7867.2	7888.6	7622.5	7224.2	7107.5	7136.0
57.5°	5825.7	5876.9	6221.2	6741.9	7414.8	7968.2	8109.1	7932.6	7574.1	7458.9	7504.4
60°	5067.4	5118.7	5464.4	6124.5	7060.6	7921.3	8291.2	8207.2	7891.4	7798.9	7823.2
62.5°	3970.6	3966.3	4394.6	5204.0	6356.4	7690.8	8426.3	8471.8	8204.4	8087.7	8124.7
65°	2573.5	2586.3	3000.4	3872.5	5293.7	7104.7	8456.2	8809.1	8511.7	8335.2	8362.3
66°	2070.0	2108.4	2459.8	3263.6	4751.6	6720.6	8366.6	8908.6	8605.6	8392.2	8405.0
67.5°	1527.9	1520.8	1809.6	2429.9	3794.2	5990.8	8086.3	8971.2	8712.3	8443.4	8449.1
70°	872.1	870.7	973.1	1334.4	2230.7	4218.1	6815.9	8671.0	8928.5	8628.3	8612.7
72.5°	637.3	633.1	647.3	737.0	1088.3	2129.7	4701.9	7578.4	8817.5	8598.5	8554.4
75°	534.9	532.1	529.2	540.6	610.3	964.5	2495.3	5451.6	7651.0	8070.7	8025.2
77.5°	436.7	436.7	438.2	435.3	438.2	507.9	1034.3	2922.1	4659.1	5201.2	5327.8
80°	341.4	340.0	364.2	354.2	331.4	325.8	458.1	940.4	1546.4	1537.9	1269.0
82.5°	251.8	234.7	277.4	270.3	244.7	207.7	267.4	401.2	516.5	335.7	248.9
85°	159.4	157.9	196.3	179.2	149.4	98.1	128.0	172.2	213.4	129.4	105.3
87.5°	28.4	27.0	62.6	45.5	45.5	28.4	35.6	46.9	69.7	48.4	35.6
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)