

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: P651325

Luminaire Tested: **GALN-SA4D-840-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651325  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)  
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-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26993.6 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

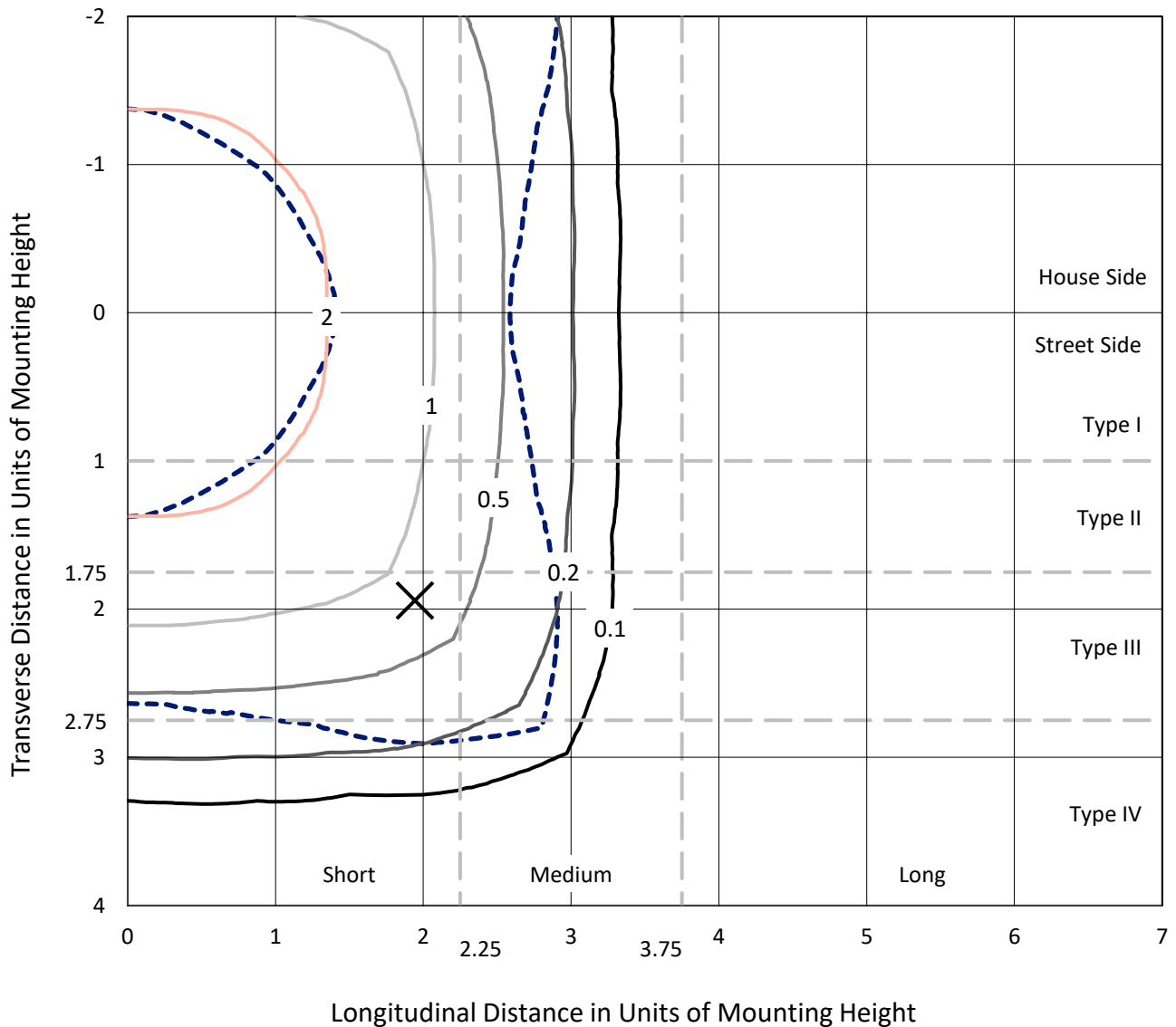
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

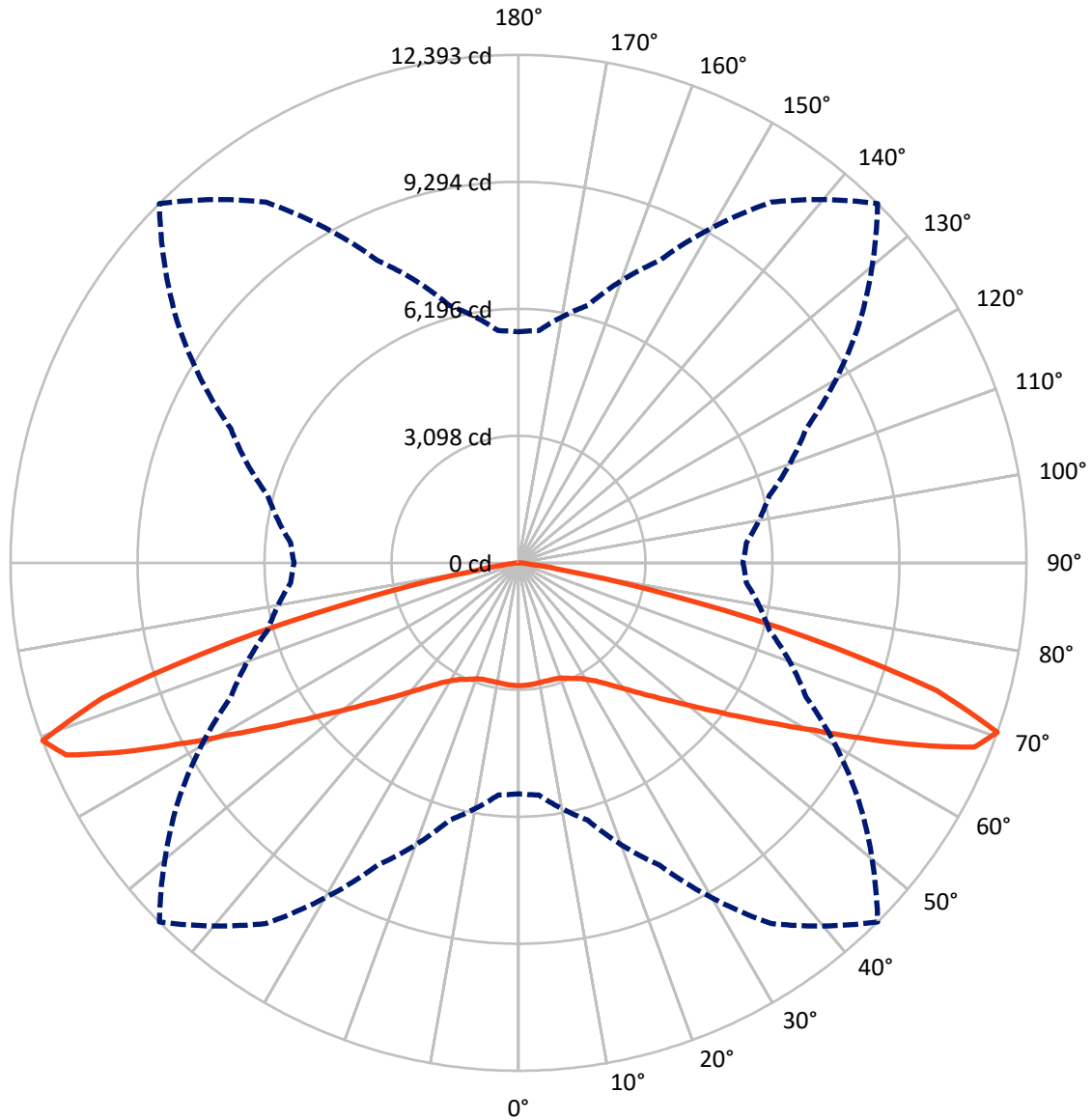
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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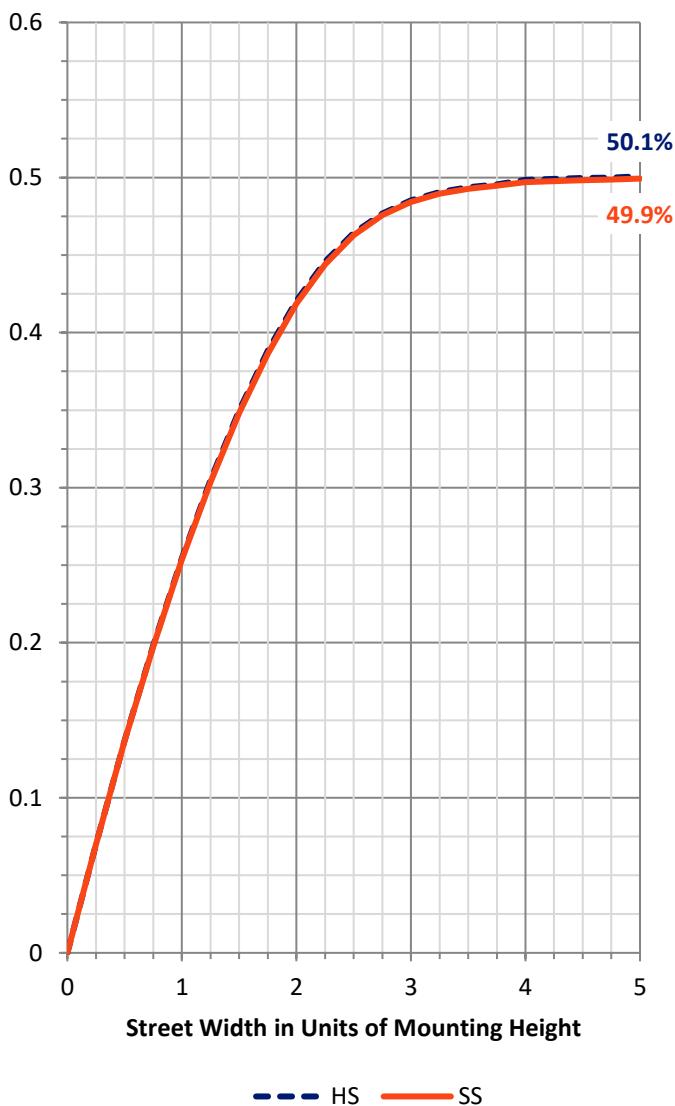
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13496.8	0.0	13496.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13496.8	0.0	13496.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	26993.6	0.0	26993.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	284.2	1.1
10°-20°	834.1	3.1
20°-30°	1426.6	5.3
30°-40°	2264.3	8.4
40°-50°	3652.9	13.5
50°-60°	5943.4	22.0
60°-70°	8615.7	31.9
70°-80°	3821.6	14.2
80°-90°	150.7	0.6
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°	26993.6	100.0
0°-180°	26993.6	100.0

**Coefficient of Utilization**



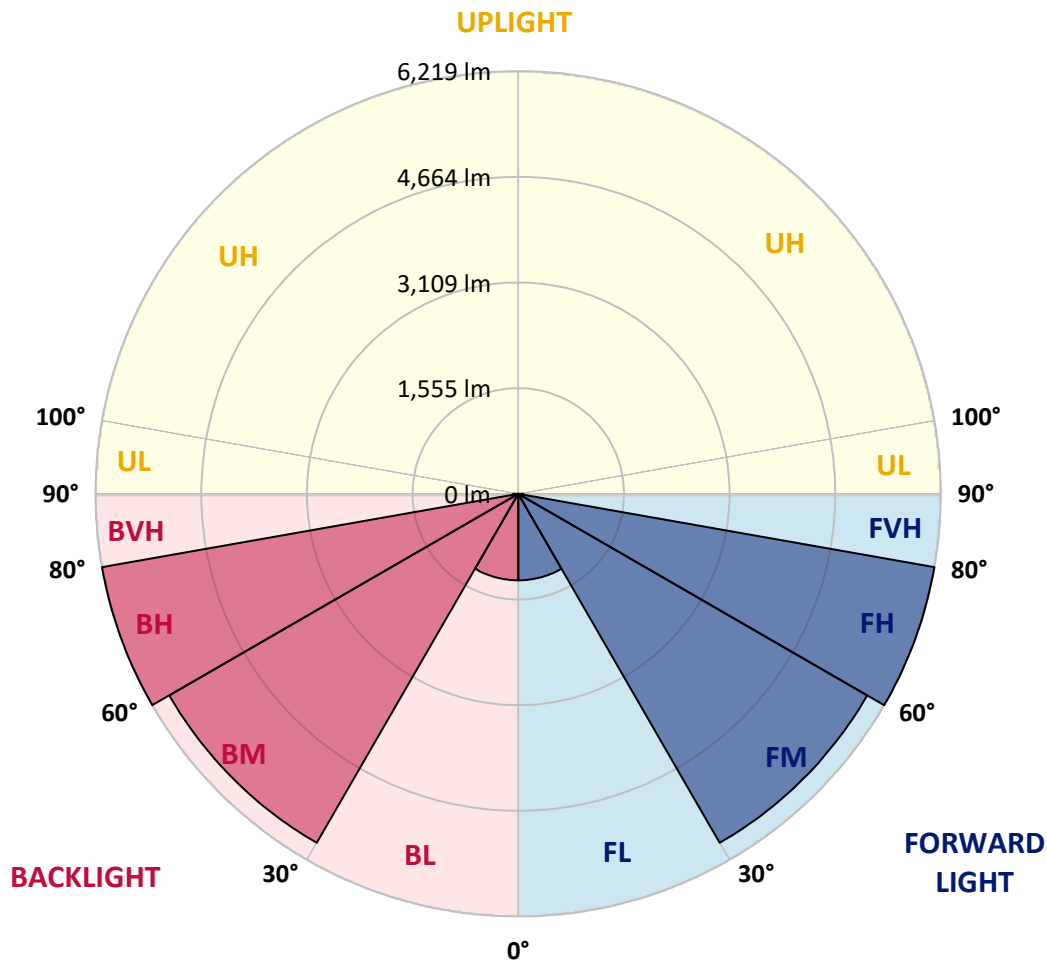
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1272.5	4.7			
FM (30°-60°)	5930.3	22.0			
FH (60°-80°)	6218.7	23.0			G3/7500
FVH (80°-90°)	75.4	0.3			G1/100
BL (0°-30°)	1272.5	4.7	B3/2500		
BM (30°-60°)	5930.3	22.0	B4/8500		
BH (60°-80°)	6218.7	23.0	B5		G3/7500
BVH (80°-90°)	75.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2997.5	2997.5	2997.5	2997.5	2997.5	2997.5	2997.5	2997.5	2997.5	2997.5	2997.5
2.5°	2997.5	3000.4	2996.1	2993.2	2991.9	2991.9	2990.4	2991.9	3000.4	3001.8	2997.5
5°	2989.0	2991.9	2990.4	2987.6	2986.1	2986.1	2984.7	2983.3	2990.4	2993.2	2991.9
7.5°	2977.6	2979.0	2977.6	2976.1	2977.6	2976.1	2971.9	2969.1	2974.8	2974.8	2973.4
10°	2957.7	2960.5	2959.1	2960.5	2963.3	2963.3	2957.7	2952.0	2953.4	2950.6	2950.6
12.5°	2933.5	2937.8	2939.2	2944.8	2952.0	2960.5	2947.7	2934.9	2932.1	2930.6	2929.2
15°	2917.8	2922.1	2927.8	2933.5	2946.3	2964.8	2946.3	2926.3	2920.7	2915.0	2912.1
17.5°	2913.6	2919.3	2927.8	2936.4	2953.4	2971.9	2956.3	2936.4	2922.1	2913.6	2910.7
20°	2924.9	2929.2	2942.0	2957.7	2981.8	3000.4	2984.7	2963.3	2942.0	2929.2	2924.9
22.5°	2947.7	2954.9	2970.5	2998.9	3033.1	3060.1	3038.8	3003.2	2969.1	2952.0	2946.3
25°	2997.5	3003.2	3021.7	3060.1	3099.9	3125.6	3102.8	3061.5	3014.6	2991.9	2984.7
27.5°	3072.9	3081.4	3101.4	3146.9	3179.6	3193.9	3178.2	3149.7	3115.6	3091.4	3085.7
30°	3179.6	3189.6	3219.4	3267.8	3289.2	3297.7	3290.6	3272.1	3247.9	3222.3	3216.6
32.5°	3323.3	3329.0	3363.2	3408.7	3428.6	3431.4	3422.9	3414.4	3374.5	3331.8	3329.0
35°	3484.1	3494.0	3535.2	3589.3	3607.8	3609.2	3592.2	3579.4	3532.5	3498.3	3498.3
37.5°	3697.5	3701.7	3741.5	3802.7	3822.7	3817.0	3808.4	3797.0	3747.2	3703.2	3704.6
40°	3947.8	3956.4	3990.5	4061.6	4061.6	4054.5	4060.3	4051.7	4001.9	3959.2	3960.6
42.5°	4245.2	4249.4	4290.7	4366.1	4360.4	4346.2	4351.8	4340.5	4309.2	4260.8	4243.8
45°	4562.4	4579.5	4650.6	4723.1	4711.8	4666.3	4689.0	4686.2	4657.7	4585.2	4589.4
47.5°	4945.1	4973.6	5041.9	5128.7	5115.8	5044.7	5070.3	5087.4	5047.5	4967.9	4953.7
50°	5376.2	5394.7	5495.7	5576.8	5565.4	5490.0	5548.3	5551.2	5451.5	5339.2	5339.2
52.5°	5835.7	5854.2	5990.8	6117.3	6124.5	6014.9	6061.8	6059.1	5896.8	5748.9	5720.5
55°	6350.6	6359.2	6535.7	6722.0	6761.8	6655.1	6660.8	6603.9	6393.4	6221.2	6205.6
57.5°	6882.7	6914.0	7109.0	7350.8	7468.8	7403.4	7373.6	7221.3	7017.9	6820.2	6810.2
60°	7471.7	7473.1	7726.4	8012.3	8251.3	8295.5	8173.1	7969.7	7706.4	7444.7	7433.3
62.5°	7880.0	7941.2	8261.3	8745.0	9173.2	9420.7	9097.8	8671.0	8153.2	7730.6	7688.0
65°	7963.9	8005.2	8493.2	9312.6	10187.5	10721.1	9974.2	9066.5	8183.0	7619.7	7591.2
67.5°	7285.3	7329.5	7986.7	9244.4	10898.9	11992.9	10543.2	8875.8	7676.6	6979.5	6924.0
70°	5635.1	5684.9	6497.2	8137.5	10740.9	12392.6	10137.8	7742.0	6330.8	5578.2	5477.2
72.5°	2996.1	3179.6	3873.9	5585.3	8718.0	10669.9	8312.5	5649.3	4083.0	3337.5	3203.8
75°	1094.0	1116.8	1503.7	2476.8	5071.7	7316.6	5266.6	2694.5	1549.3	1196.4	1135.3
77.5°	452.4	450.9	495.1	748.3	1842.3	3747.2	2055.7	791.0	493.7	456.7	450.9
80°	267.4	267.4	294.5	311.6	485.1	1131.0	542.0	352.8	295.9	270.3	274.6
82.5°	119.5	126.7	186.4	196.3	234.7	310.2	261.8	224.8	193.5	133.7	120.9
85°	65.4	56.9	98.1	102.4	112.4	115.2	123.8	122.4	112.4	65.4	66.9
87.5°	12.8	15.6	28.4	21.4	24.2	21.4	28.4	39.9	41.3	22.8	18.5
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)