

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: P453670

Luminaire Tested: **GALN-SA4D-727-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453670  
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-727-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 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: 26843 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

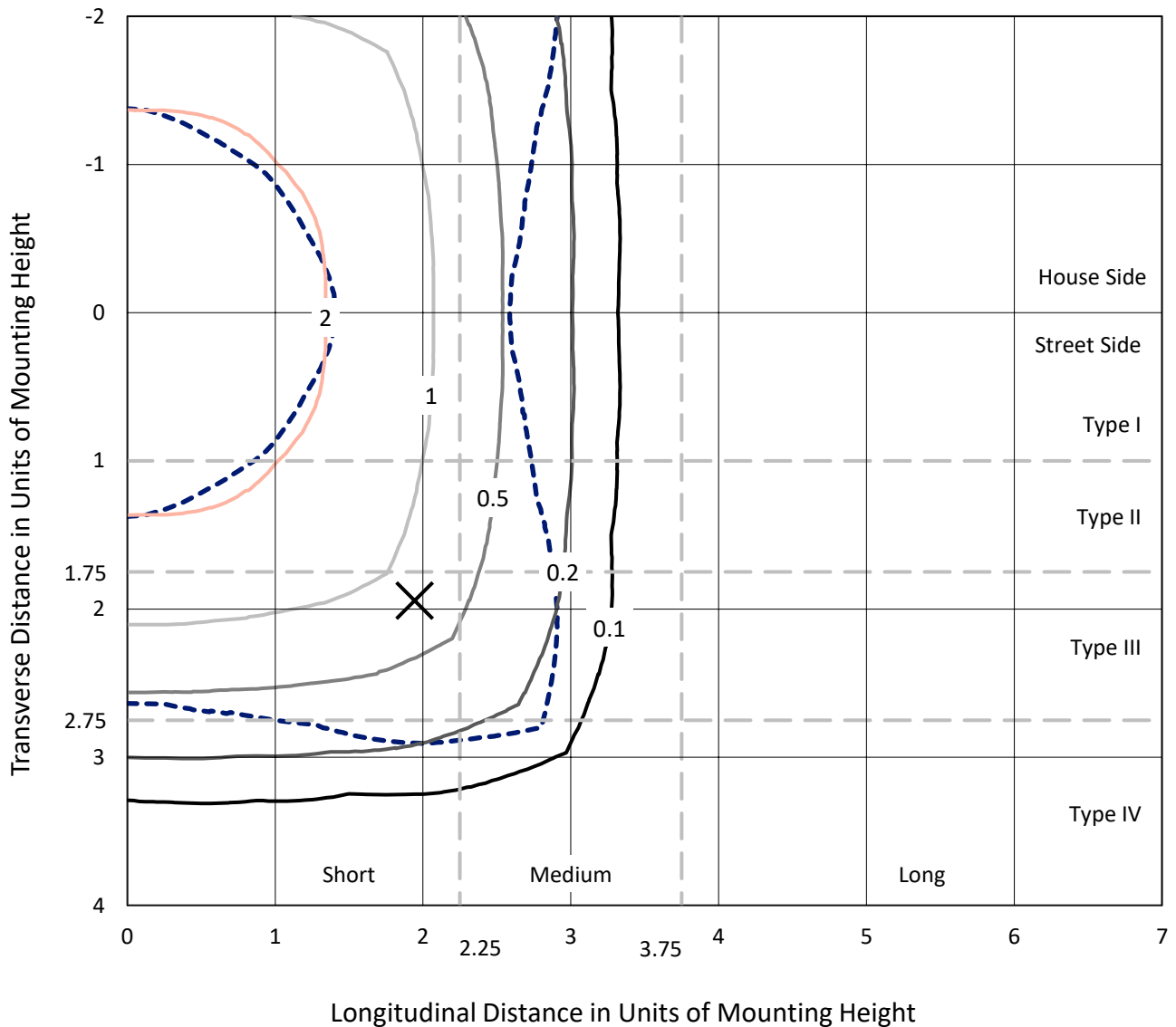
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

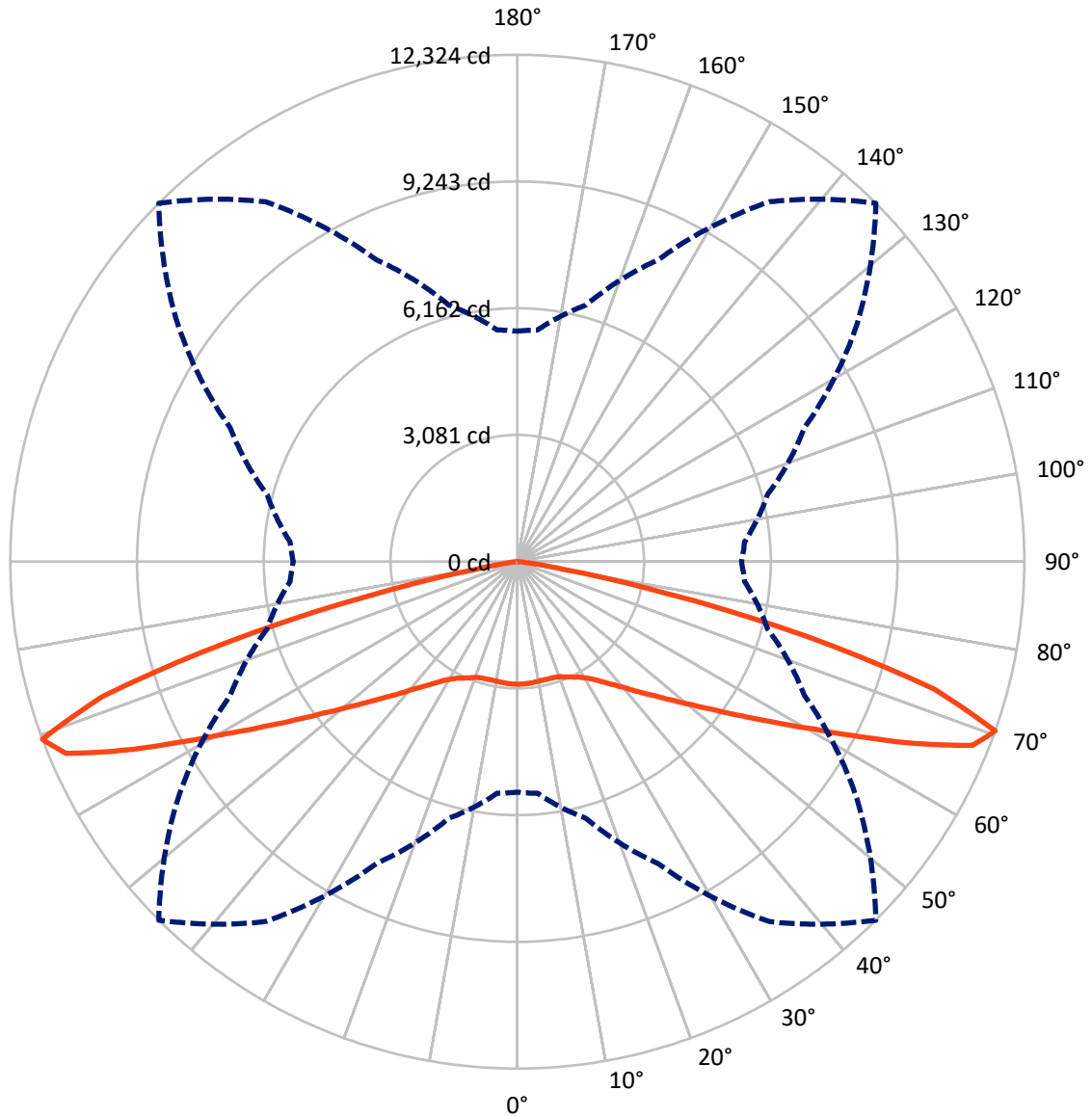
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	13421.5	0.0	13421.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13421.5	0.0	13421.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	26843.0	0.0	26843.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	282.7	1.1
10°-20°	829.5	3.1
20°-30°	1418.6	5.3
30°-40°	2251.7	8.4
40°-50°	3632.5	13.5
50°-60°	5910.2	22.0
60°-70°	8567.7	31.9
70°-80°	3800.3	14.2
80°-90°	149.9	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°	26843.0	100.0
0°-180°	26843.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P453670

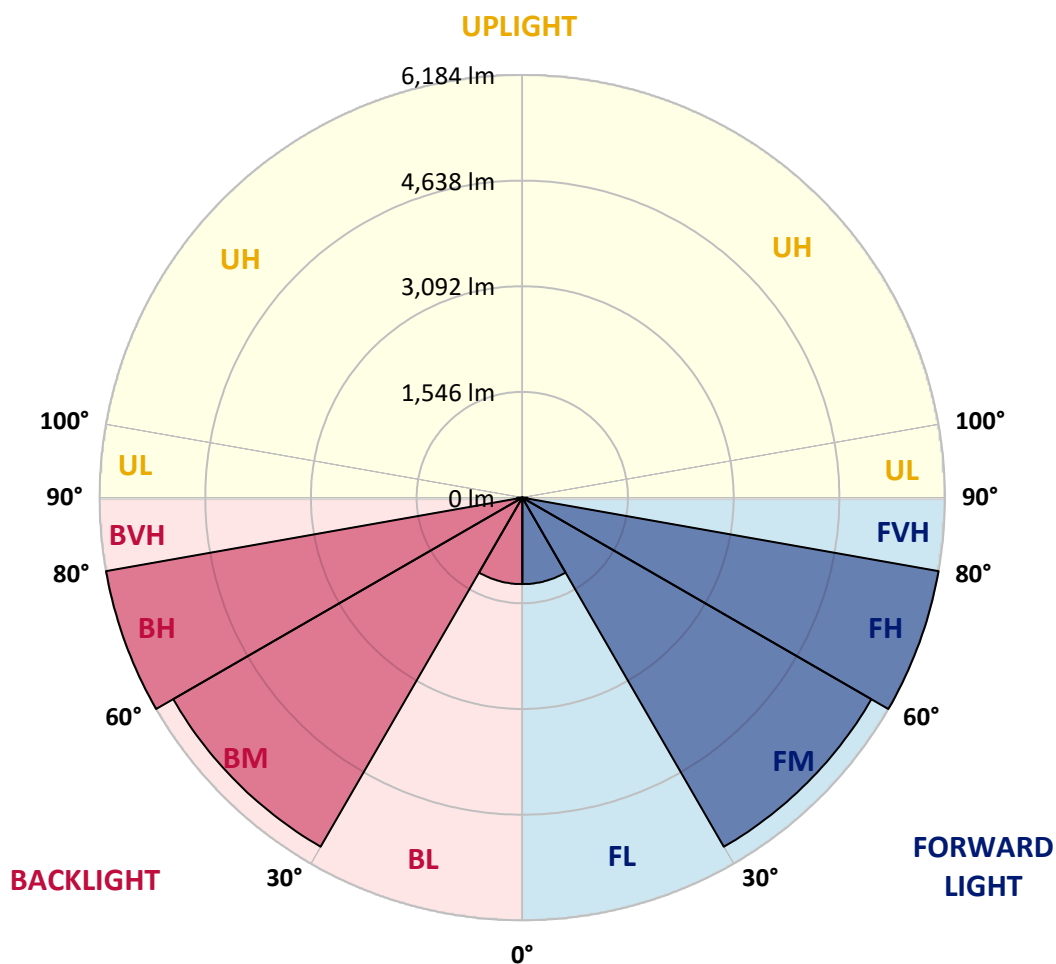
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1265.4	4.7			
FM (30°-60°)	5897.2	22.0			
FH (60°-80°)	6184.0	23.0			G3/7500
FVH (80°-90°)	74.9	0.3			G1/100
BL (0°-30°)	1265.4	4.7	B3/2500		
BM (30°-60°)	5897.2	22.0	B4/8500		
BH (60°-80°)	6184.0	23.0	B5		G3/7500
BVH (80°-90°)	74.9	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°	2980.8	2980.8	2980.8	2980.8	2980.8	2980.8	2980.8	2980.8	2980.8	2980.8	2980.8
2.5°	2980.8	2983.6	2979.4	2976.5	2975.1	2975.1	2973.7	2975.1	2983.6	2985.0	2980.8
5°	2972.3	2975.1	2973.7	2970.9	2969.5	2969.5	2968.1	2966.6	2973.7	2976.5	2975.1
7.5°	2961.0	2962.4	2961.0	2959.6	2961.0	2959.6	2955.3	2952.5	2958.2	2958.2	2956.7
10°	2941.2	2944.0	2942.6	2944.0	2946.8	2946.8	2941.2	2935.5	2936.9	2934.1	2934.1
12.5°	2917.1	2921.4	2922.8	2928.4	2935.5	2944.0	2931.3	2918.5	2915.7	2914.3	2912.9
15°	2901.6	2905.8	2911.5	2917.1	2929.9	2948.3	2929.9	2910.1	2904.4	2898.7	2895.9
17.5°	2897.3	2903.0	2911.5	2920.0	2936.9	2955.3	2939.8	2920.0	2905.8	2897.3	2894.5
20°	2908.6	2912.9	2925.6	2941.2	2965.2	2983.6	2968.1	2946.8	2925.6	2912.9	2908.6
22.5°	2931.3	2938.3	2953.9	2982.2	3016.2	3043.0	3021.8	2986.4	2952.5	2935.5	2929.9
25°	2980.8	2986.4	3004.8	3043.0	3082.6	3108.1	3085.5	3044.5	2997.8	2975.1	2968.1
27.5°	3055.8	3064.3	3084.1	3129.3	3161.9	3176.0	3160.5	3132.2	3098.2	3074.2	3068.5
30°	3161.9	3171.8	3201.5	3249.6	3270.8	3279.3	3272.2	3253.8	3229.8	3204.3	3198.7
32.5°	3304.8	3310.4	3344.4	3389.6	3409.4	3412.3	3403.8	3395.3	3355.7	3313.2	3310.4
35°	3464.6	3474.5	3515.5	3569.3	3587.7	3589.1	3572.1	3559.4	3512.7	3478.8	3478.8
37.5°	3676.8	3681.1	3720.7	3781.5	3801.3	3795.7	3787.2	3775.9	3726.3	3682.5	3683.9
40°	3925.8	3934.3	3968.3	4039.0	4039.0	4031.9	4037.6	4029.1	3979.6	3937.1	3938.5
42.5°	4221.5	4225.7	4266.8	4341.7	4336.1	4321.9	4327.6	4316.3	4285.1	4237.0	4220.1
45°	4537.0	4553.9	4624.7	4696.8	4685.5	4640.2	4662.9	4660.0	4631.8	4559.6	4563.8
47.5°	4917.5	4945.8	5013.7	5100.0	5087.3	5016.6	5042.0	5059.0	5019.4	4940.2	4926.0
50°	5346.2	5364.6	5465.0	5545.7	5534.3	5459.4	5517.4	5520.2	5421.2	5309.4	5309.4
52.5°	5803.1	5821.5	5957.3	6083.2	6090.3	5981.4	6028.1	6025.2	5864.0	5716.8	5688.5
55°	6315.3	6323.7	6499.2	6684.5	6724.1	6618.0	6623.7	6567.1	6357.7	6186.5	6171.0
57.5°	6844.4	6875.5	7069.3	7309.8	7427.2	7362.1	7332.4	7181.1	6978.8	6782.1	6772.2
60°	7430.0	7431.5	7683.3	7967.6	8205.3	8249.2	8127.5	7925.2	7663.5	7403.2	7391.8
62.5°	7836.1	7896.9	8215.2	8696.2	9122.0	9368.2	9047.1	8622.6	8107.7	7687.5	7645.1
65°	7919.5	7960.6	8445.8	9260.7	10130.7	10661.2	9918.5	9015.9	8137.4	7577.2	7548.9
67.5°	7244.7	7288.6	7942.2	9192.8	10838.1	11926.0	10484.4	8826.4	7633.8	6940.6	6885.4
70°	5603.7	5653.2	6461.0	8092.1	10681.0	12323.5	10081.2	7698.8	6295.4	5547.1	5446.6
72.5°	2979.4	3161.9	3852.2	5554.1	8669.3	10610.3	8266.1	5617.8	4060.2	3318.9	3185.9
75°	1087.9	1110.5	1495.3	2463.0	5043.4	7275.8	5237.2	2679.5	1540.6	1189.8	1128.9
77.5°	449.9	448.5	492.3	744.1	1832.0	3726.3	2044.3	786.6	490.9	454.1	448.5
80°	266.0	266.0	292.8	309.8	482.4	1124.7	539.0	350.8	294.3	268.8	273.0
82.5°	118.8	125.9	185.3	195.2	233.4	308.4	260.3	223.5	192.4	133.0	120.3
85°	65.1	56.6	97.6	101.9	111.8	114.6	123.1	121.7	111.8	65.1	66.5
87.5°	12.7	15.6	28.3	21.2	24.1	21.2	28.3	39.6	41.0	22.6	18.4
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)