

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: P453675

Luminaire Tested: **GALN-SA4D-727-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453675  
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-727-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26406 lumens  
Efficiency: N/A  
Efficacy: 107.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4

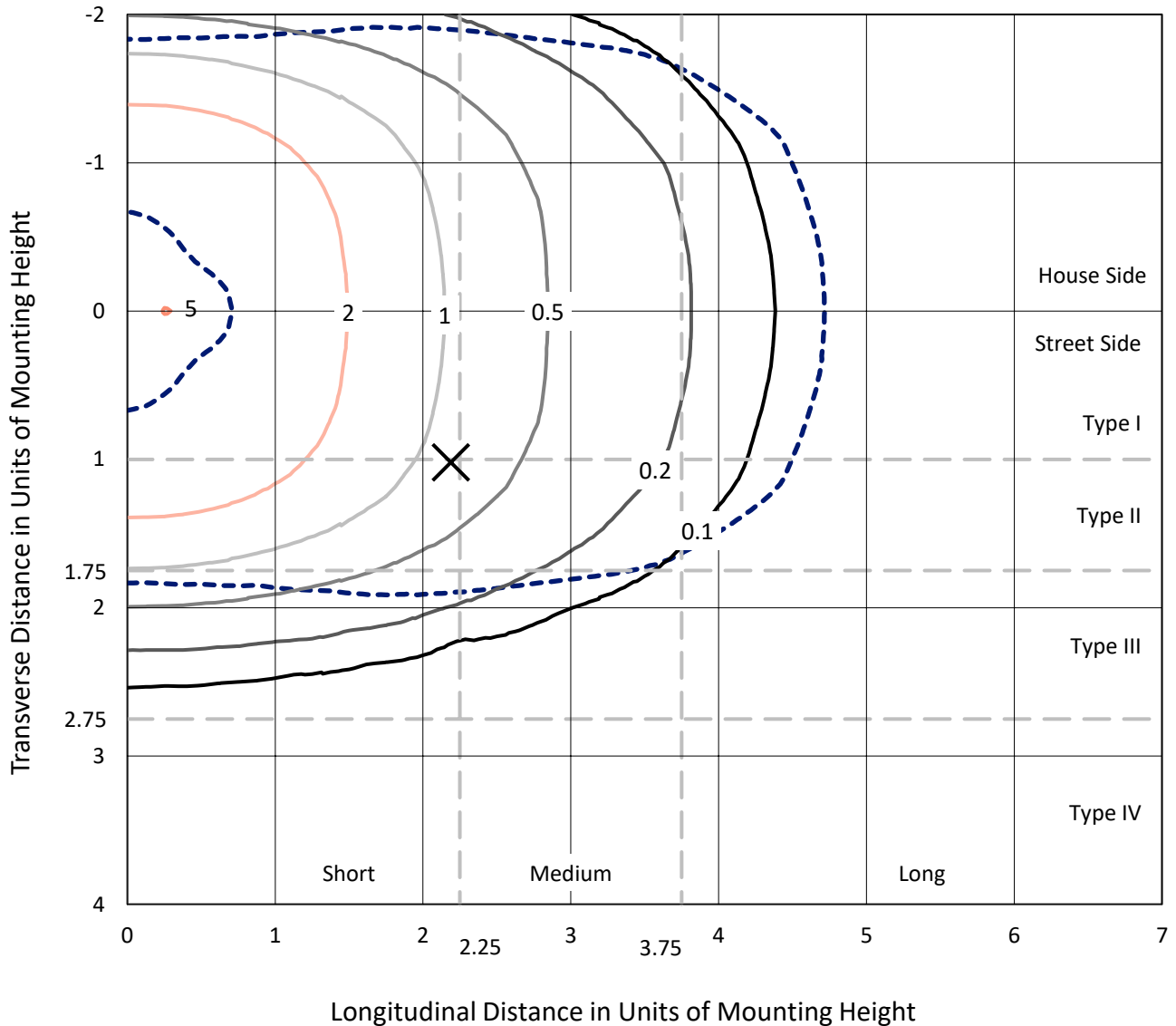
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

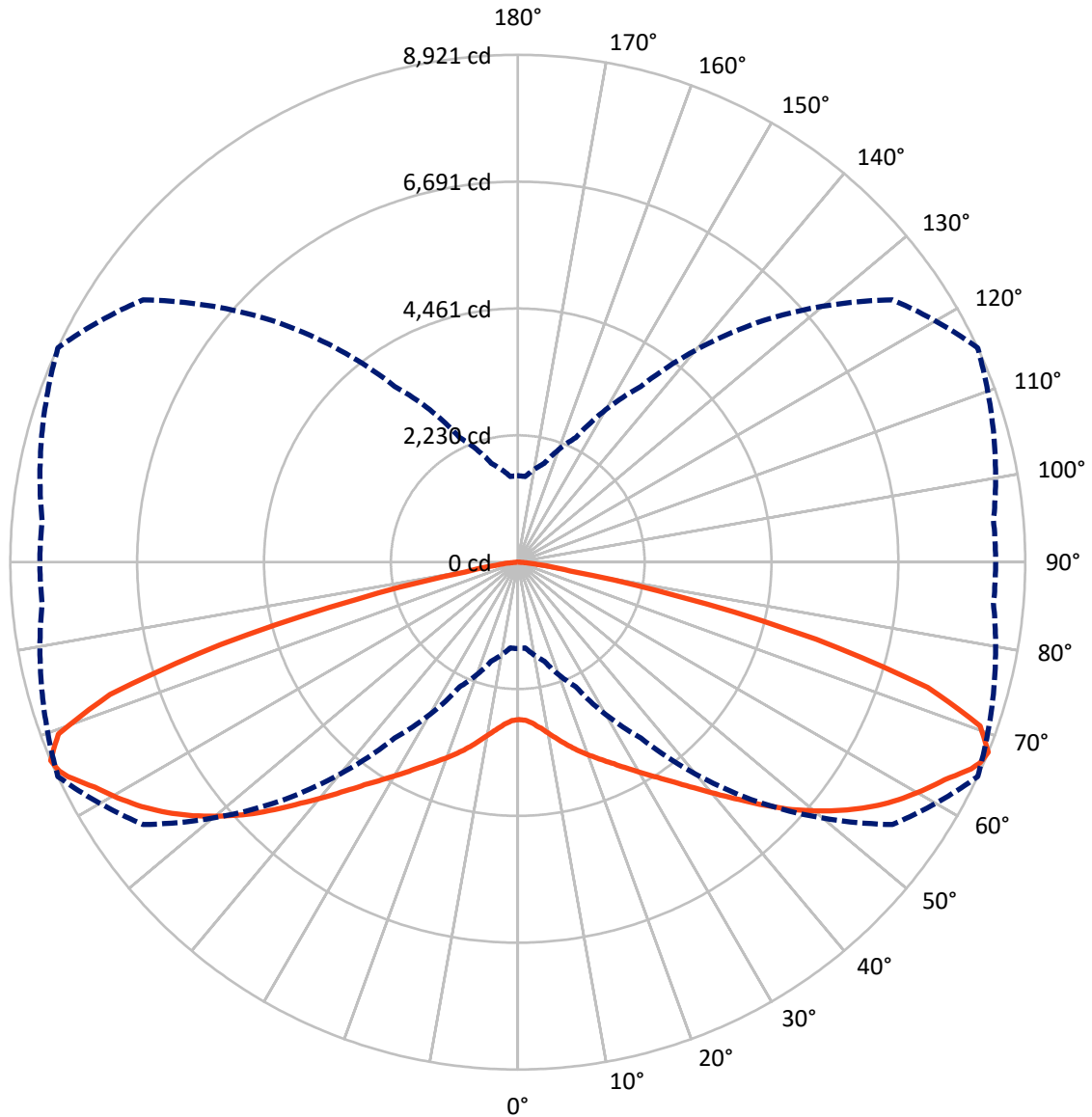
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	13203.0	0.0	13203.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13203.0	0.0	13203.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	26406.0	0.0	26406.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	272.8	1.0
10°-20°	913.0	3.5
20°-30°	1785.8	6.8
30°-40°	3037.5	11.5
40°-50°	4807.4	18.2
50°-60°	6374.6	24.1
60°-70°	6013.2	22.8
70°-80°	2972.6	11.3
80°-90°	229.1	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°	26406.0	100.0
0°-180°	26406.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P453675

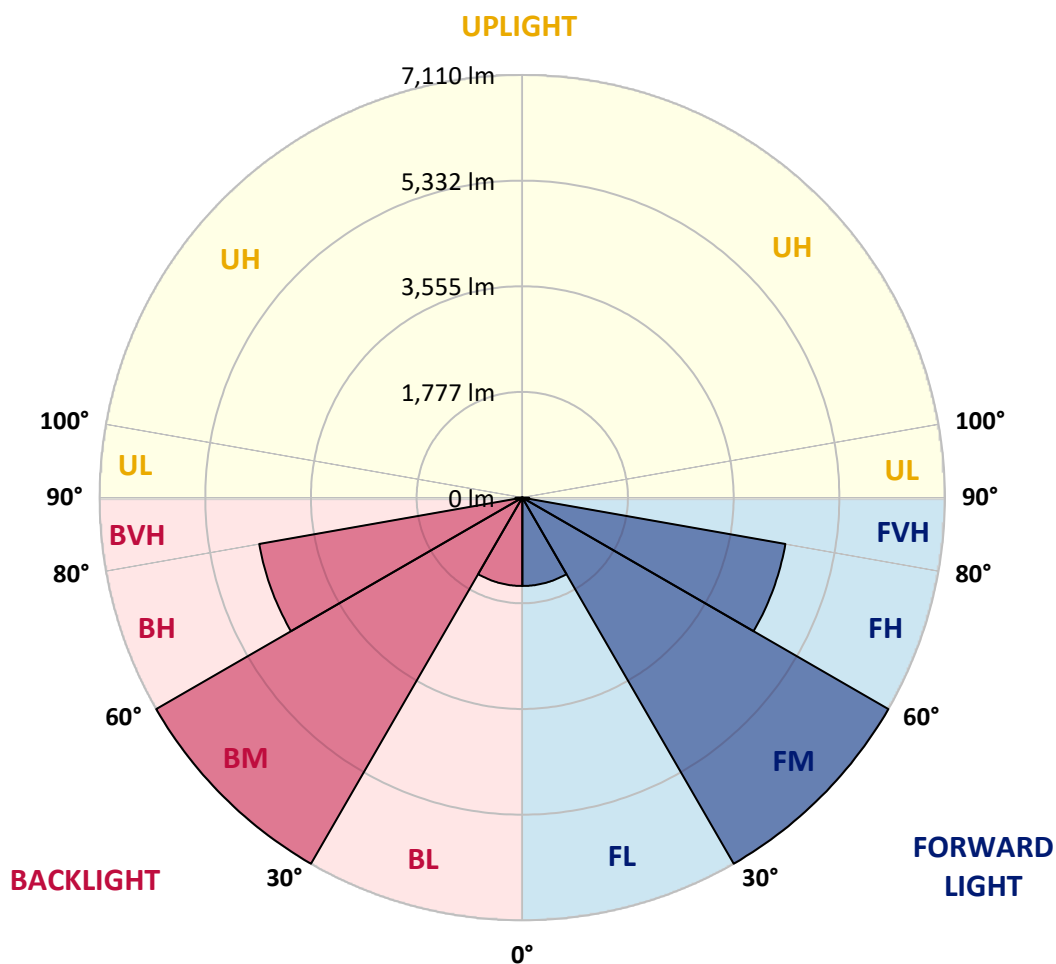
CATALOG NUMBER: GALN-SA4D-727-U-RW

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1485.8	5.6			
FM	(30°-60°)	7109.7	26.9			
FH	(60°-80°)	4492.9	17.0			G2/5000
FVH	(80°-90°)	114.5	0.4			G2/225
BL	(0°-30°)	1485.8	5.6	B3/2500		
BM	(30°-60°)	7109.7	26.9	B4/8500		
BH	(60°-80°)	4492.9	17.0	B4/5000		G4/5000
BVH	(80°-90°)	114.5	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°	2765.8	2765.8	2765.8	2765.8	2765.8	2765.8	2765.8	2765.8	2765.8	2765.8	2765.8
2.5°	2751.6	2754.5	2757.3	2761.6	2767.2	2775.7	2781.4	2785.6	2796.9	2798.3	2796.9
5°	2741.7	2744.6	2751.6	2764.4	2782.8	2808.2	2828.0	2852.1	2870.5	2883.2	2880.4
7.5°	2740.3	2746.0	2757.3	2784.2	2819.6	2863.4	2908.7	2949.7	2985.1	3013.4	3009.1
10°	2763.0	2770.0	2788.4	2828.0	2883.2	2946.9	3010.5	3071.4	3122.3	3159.1	3171.8
12.5°	2801.2	2806.8	2840.8	2900.2	2979.4	3058.6	3130.8	3205.8	3276.5	3338.8	3338.8
15°	2867.7	2877.6	2920.0	3006.3	3103.9	3195.9	3269.4	3348.7	3425.1	3495.8	3517.0
17.5°	2959.6	2973.8	3037.4	3147.8	3272.3	3357.2	3426.5	3491.6	3558.0	3626.0	3635.9
20°	3085.5	3099.7	3184.6	3317.5	3464.7	3566.5	3613.2	3628.8	3661.3	3726.4	3734.9
22.5°	3256.7	3270.9	3365.6	3515.6	3679.7	3790.1	3809.9	3773.1	3764.6	3815.5	3821.2
25°	3450.5	3463.3	3572.2	3733.5	3903.2	4023.5	4017.8	3927.3	3876.4	3907.5	3916.0
27.5°	3668.4	3686.8	3797.1	3964.1	4148.0	4254.1	4237.1	4105.5	3996.6	3991.0	3993.8
30°	3947.1	3966.9	4071.6	4231.5	4412.5	4510.2	4474.8	4297.9	4129.6	4073.0	4073.0
32.5°	4241.4	4290.9	4397.0	4563.9	4705.4	4776.1	4722.4	4510.2	4286.6	4207.4	4203.2
35°	4624.7	4651.6	4756.3	4919.0	5025.1	5080.3	4977.0	4749.2	4491.8	4398.4	4385.7
37.5°	4999.7	5022.3	5144.0	5299.6	5428.3	5425.5	5285.4	5033.6	4746.4	4641.7	4633.2
40°	5383.0	5407.1	5545.7	5688.6	5817.4	5806.0	5636.3	5354.7	5049.2	4931.7	4954.4
42.5°	5715.5	5742.4	5899.4	6103.1	6219.1	6216.3	6019.7	5702.8	5384.5	5279.8	5299.6
45°	6018.3	6042.3	6224.8	6458.2	6628.0	6649.2	6434.2	6098.9	5772.1	5637.7	5643.4
47.5°	6231.9	6277.2	6468.1	6735.5	6966.1	7041.1	6830.3	6502.1	6125.8	5985.7	5994.2
50°	6394.6	6422.9	6630.8	6935.0	7226.4	7382.1	7212.3	6875.6	6479.5	6330.9	6350.7
52.5°	6414.4	6448.3	6674.7	7025.5	7399.0	7635.3	7551.8	7240.6	6840.2	6687.4	6729.9
55°	6253.1	6272.9	6543.1	6969.0	7466.9	7823.5	7844.7	7580.1	7184.0	7068.0	7096.3
57.5°	5793.3	5844.2	6186.6	6704.4	7373.6	7923.9	8064.0	7888.5	7532.0	7417.4	7462.7
60°	5039.3	5090.2	5434.0	6090.4	7021.3	7877.2	8245.0	8161.6	7847.5	7755.5	7779.6
62.5°	3948.5	3944.3	4370.1	5175.1	6321.0	7648.0	8379.4	8424.7	8158.7	8042.7	8079.5
65°	2559.2	2572.0	2983.7	3850.9	5264.2	7065.2	8409.2	8760.0	8464.3	8288.9	8315.8
66°	2058.4	2096.6	2446.1	3245.4	4725.2	6683.2	8320.0	8859.0	8557.7	8345.5	8358.2
67.5°	1519.4	1512.3	1799.5	2416.4	3773.1	5957.4	8041.3	8921.3	8663.8	8396.4	8402.1
70°	867.2	865.8	967.7	1327.0	2218.3	4194.7	6778.0	8622.8	8878.8	8580.3	8564.8
72.5°	633.8	629.6	643.7	732.8	1082.3	2117.8	4675.7	7536.3	8768.5	8550.6	8506.8
75°	531.9	529.1	526.3	537.6	606.9	959.2	2481.4	5421.2	7608.4	8025.8	7980.5
77.5°	434.3	434.3	435.7	432.9	435.7	505.1	1028.5	2905.9	4633.2	5172.2	5298.2
80°	339.5	338.1	362.2	352.3	329.6	324.0	455.5	935.1	1537.8	1529.3	1261.9
82.5°	250.4	233.4	275.9	268.8	243.3	206.6	266.0	399.0	513.5	333.9	247.6
85°	158.4	157.0	195.2	178.3	148.5	97.6	127.3	171.2	212.2	128.7	104.7
87.5°	28.3	26.9	62.2	45.3	45.3	28.3	35.4	46.7	69.3	48.1	35.4
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)