

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: P455763

Luminaire Tested: **GALN-SA7A-727-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455763
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-SA7A-727-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27484 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

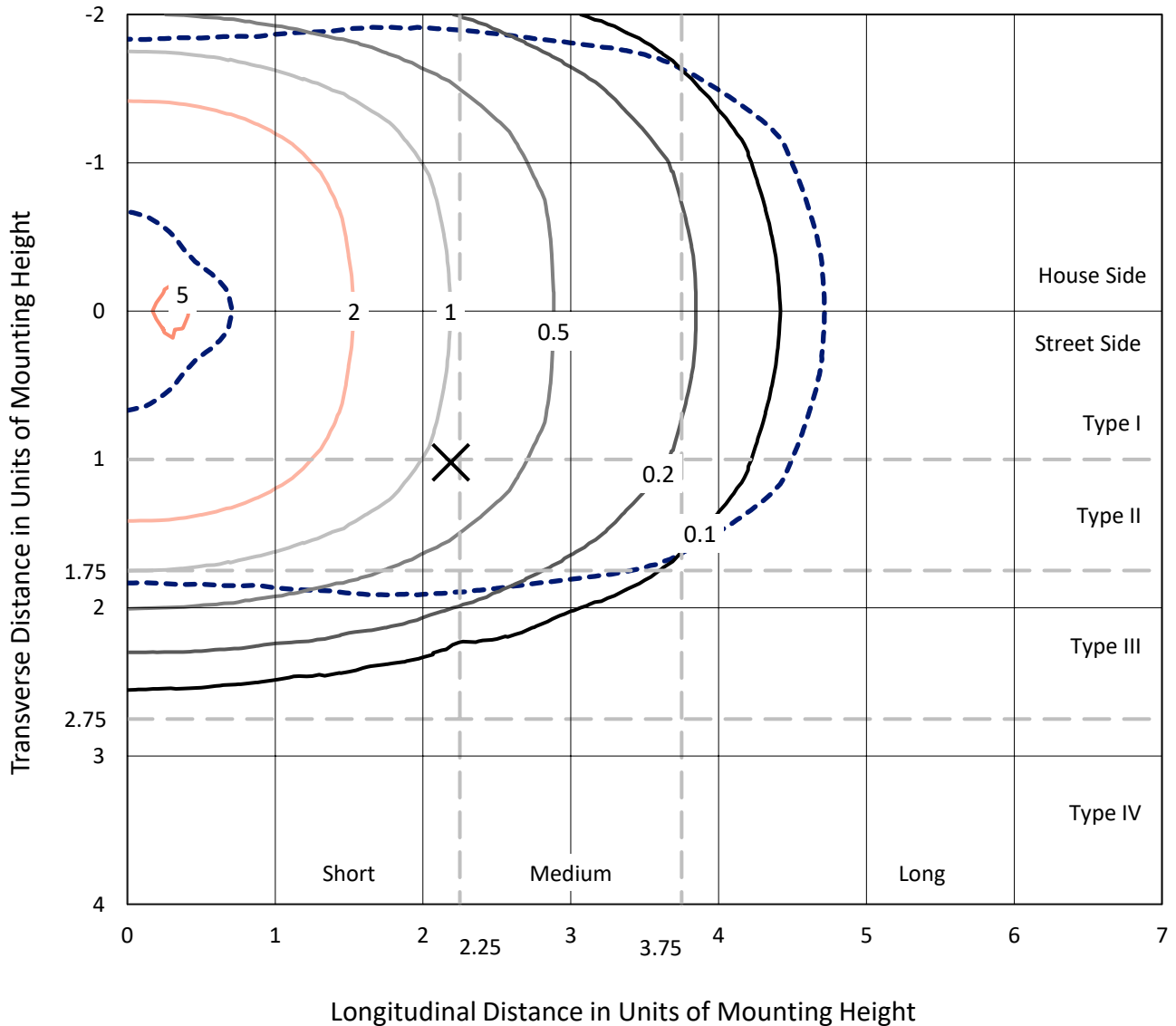
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

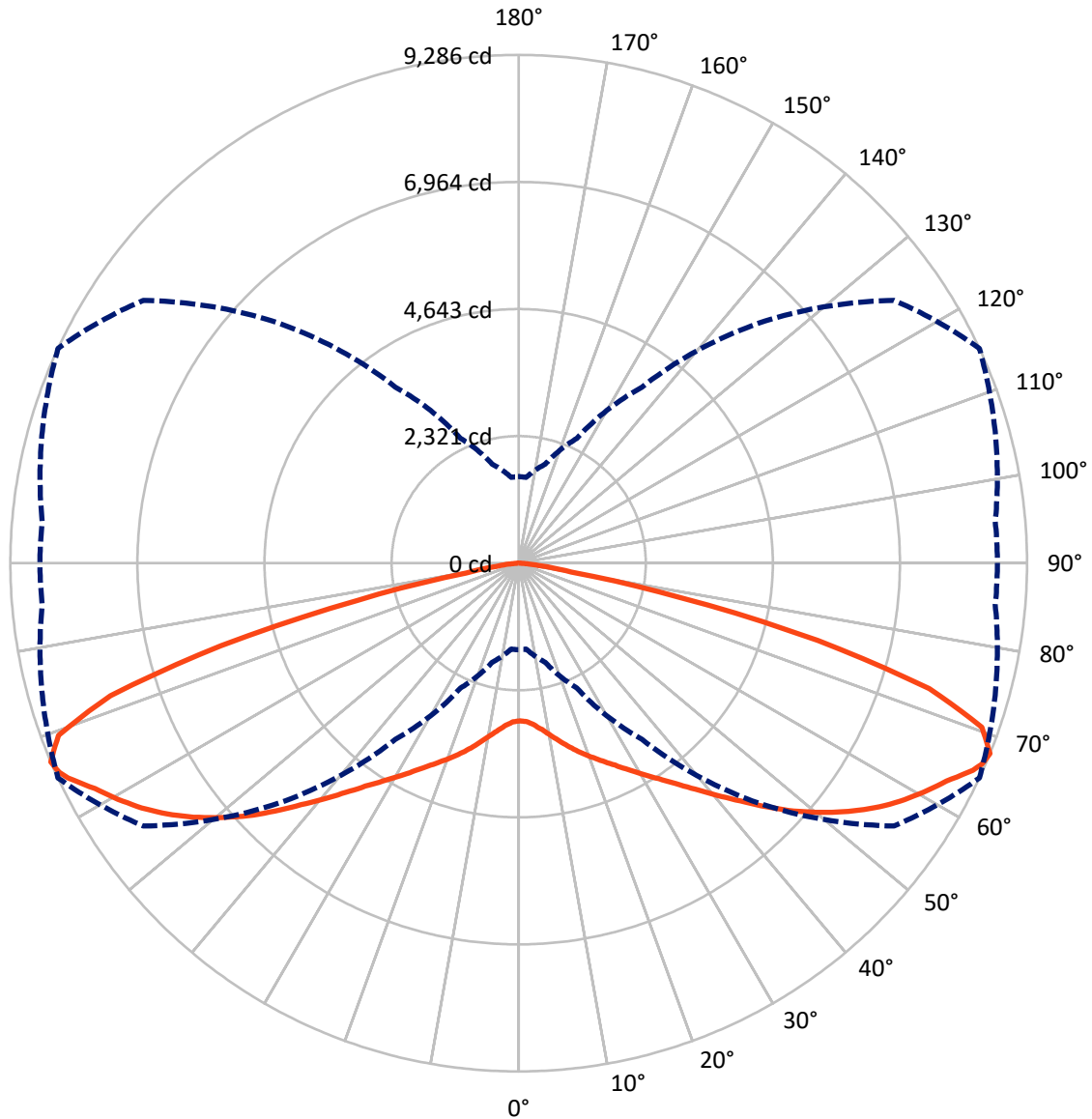
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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
House Side	Lumens	13742.0	0.0	13742.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13742.0	0.0	13742.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	27484.0	0.0	27484.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.9	1.0
10°-20°	950.3	3.5
20°-30°	1858.8	6.8
30°-40°	3161.5	11.5
40°-50°	5003.7	18.2
50°-60°	6634.8	24.1
60°-70°	6258.7	22.8
70°-80°	3094.0	11.3
80°-90°	238.4	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°	27484.0	100.0
0°-180°	27484.0	100.0

Coefficient of Utilization



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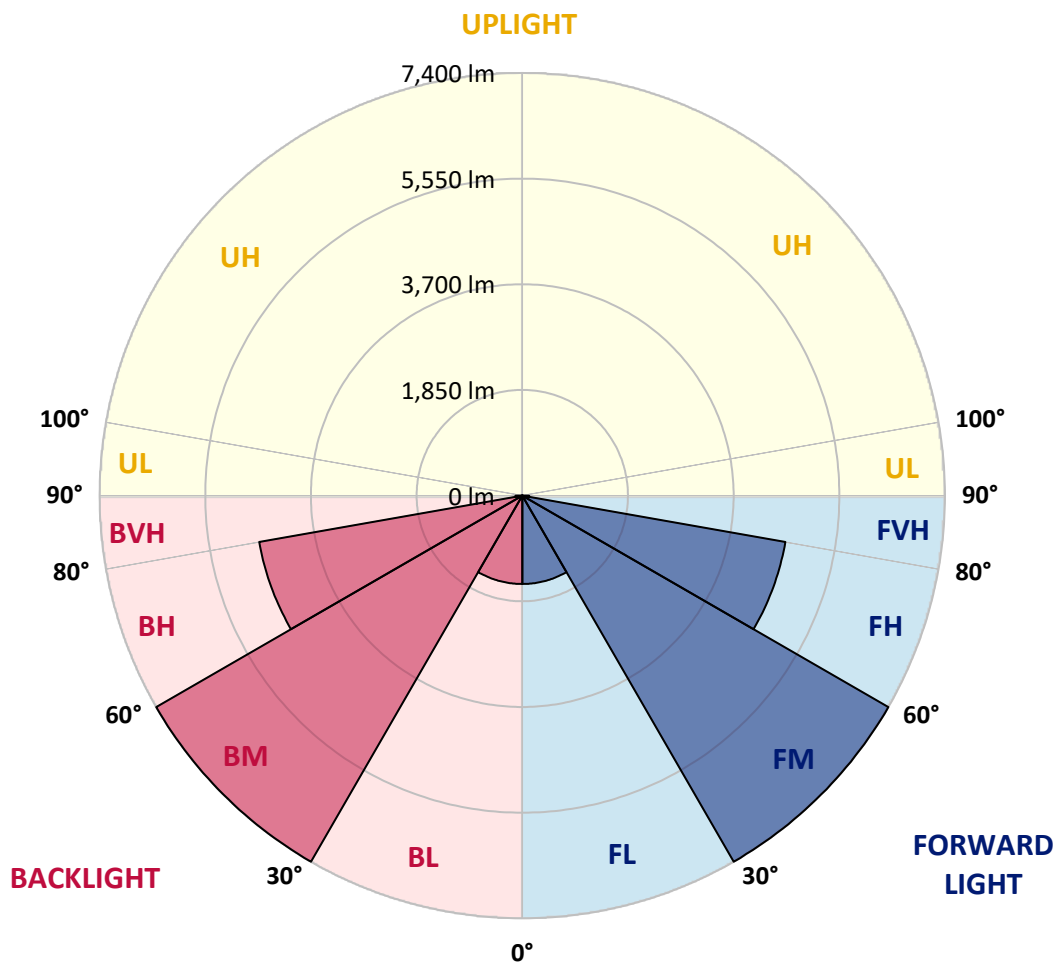
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1546.5	5.6			
FM	(30°-60°)	7400.0	26.9			
FH	(60°-80°)	4676.3	17.0			G2/5000
FVH	(80°-90°)	119.2	0.4			G2/225
BL	(0°-30°)	1546.5	5.6	B3/2500		
BM	(30°-60°)	7400.0	26.9	B4/8500		
BH	(60°-80°)	4676.3	17.0	B4/5000		G4/5000
BVH	(80°-90°)	119.2	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°	2878.7	2878.7	2878.7	2878.7	2878.7	2878.7	2878.7	2878.7	2878.7	2878.7	2878.7
2.5°	2864.0	2866.9	2869.9	2874.3	2880.2	2889.0	2894.9	2899.3	2911.1	2912.6	2911.1
5°	2853.7	2856.6	2864.0	2877.2	2896.4	2922.9	2943.5	2968.5	2987.7	3000.9	2998.0
7.5°	2852.2	2858.1	2869.9	2897.8	2934.7	2980.3	3027.4	3070.1	3106.9	3136.4	3132.0
10°	2875.8	2883.1	2902.3	2943.5	3000.9	3067.2	3133.4	3196.8	3249.8	3288.1	3301.3
12.5°	2915.5	2921.4	2956.7	3018.6	3101.1	3183.5	3258.6	3336.6	3410.3	3475.1	3475.1
15°	2984.7	2995.0	3039.2	3129.0	3230.6	3326.3	3402.9	3485.4	3564.9	3638.5	3660.6
17.5°	3080.4	3095.2	3161.4	3276.3	3405.9	3494.2	3566.4	3634.1	3703.3	3774.0	3784.3
20°	3211.5	3226.2	3314.6	3453.0	3606.1	3712.1	3760.7	3776.9	3810.8	3878.5	3887.4
22.5°	3389.7	3404.4	3503.0	3659.1	3829.9	3944.8	3965.4	3927.1	3918.3	3971.3	3977.2
25°	3591.4	3604.6	3718.0	3885.9	4062.6	4187.7	4181.9	4087.6	4034.6	4067.0	4075.8
27.5°	3818.2	3837.3	3952.1	4125.9	4317.3	4427.8	4410.1	4273.1	4159.8	4153.9	4156.8
30°	4108.2	4128.8	4237.8	4404.2	4592.7	4694.3	4657.5	4473.4	4298.2	4239.3	4239.3
32.5°	4414.5	4466.0	4576.5	4750.2	4897.5	4971.1	4915.2	4694.3	4461.6	4379.2	4374.8
35°	4813.6	4841.5	4950.5	5119.8	5230.3	5287.7	5180.2	4943.1	4675.1	4578.0	4564.7
37.5°	5203.8	5227.3	5354.0	5515.9	5649.9	5647.0	5501.2	5239.1	4940.2	4831.2	4822.4
40°	5602.8	5627.8	5772.1	5920.9	6054.9	6043.1	5866.4	5573.4	5255.3	5133.1	5156.6
42.5°	5948.8	5976.8	6140.3	6352.3	6473.0	6470.1	6265.4	5935.6	5604.3	5495.3	5515.9
45°	6263.9	6289.0	6478.9	6721.9	6898.6	6920.7	6696.9	6347.9	6007.7	5867.8	5873.7
47.5°	6486.3	6533.4	6732.2	7010.5	7250.5	7328.6	7109.2	6767.5	6375.9	6230.1	6238.9
50°	6655.6	6685.1	6901.5	7218.1	7521.4	7683.4	7506.7	7156.3	6744.0	6589.4	6610.0
52.5°	6676.2	6711.6	6947.2	7312.4	7701.1	7947.0	7860.1	7536.2	7119.5	6960.4	7004.6
55°	6508.4	6529.0	6810.2	7253.5	7771.8	8142.8	8164.9	7889.6	7477.3	7356.5	7386.0
57.5°	6029.8	6082.8	6439.2	6978.1	7674.6	8247.4	8393.2	8210.6	7839.5	7720.2	7767.4
60°	5245.0	5298.0	5655.8	6339.0	7307.9	8198.8	8581.6	8494.8	8167.9	8072.2	8097.2
62.5°	4109.7	4105.3	4548.5	5386.3	6579.1	7960.2	8721.5	8768.6	8491.8	8371.1	8409.4
65°	2663.7	2677.0	3105.5	4008.1	5479.1	7353.6	8752.4	9117.6	8809.9	8627.3	8655.3
66°	2142.5	2182.2	2545.9	3377.9	4918.1	6956.0	8659.7	9220.7	8907.1	8686.2	8699.4
67.5°	1581.4	1574.1	1873.0	2515.0	3927.1	6200.6	8369.6	9285.5	9017.5	8739.2	8745.1
70°	902.6	901.2	1007.2	1381.2	2308.9	4365.9	7054.7	8974.8	9241.3	8930.6	8914.4
72.5°	659.7	655.3	670.0	762.7	1126.5	2204.3	4866.6	7843.9	9126.5	8899.7	8854.0
75°	553.7	550.7	547.8	559.5	631.7	998.3	2582.7	5642.6	7919.0	8353.4	8306.3
77.5°	452.1	452.1	453.5	450.6	453.5	525.7	1070.5	3024.5	4822.4	5383.4	5514.5
80°	353.4	351.9	377.0	366.6	343.1	337.2	474.1	973.3	1600.6	1591.8	1313.5
82.5°	260.6	243.0	287.1	279.8	253.3	215.0	276.8	415.2	534.5	347.5	257.7
85°	164.9	163.4	203.2	185.5	154.6	101.6	132.5	178.2	220.9	134.0	109.0
87.5°	29.4	28.0	64.8	47.1	47.1	29.4	36.8	48.6	72.2	50.1	36.8
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)