

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: P457387

Luminaire Tested: **GALN-SA8D-727-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457387
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-SA8D-727-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 53900 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

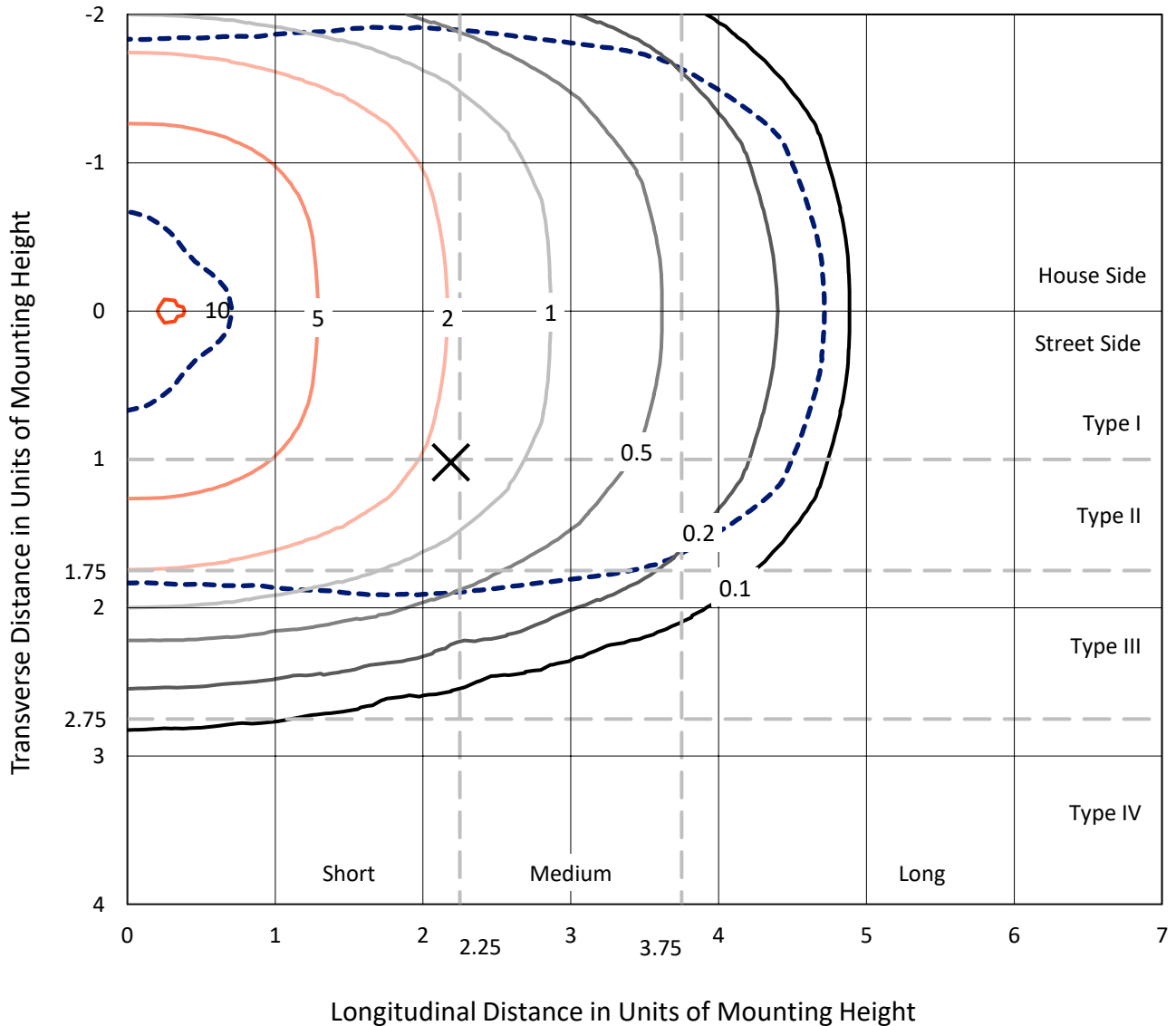
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

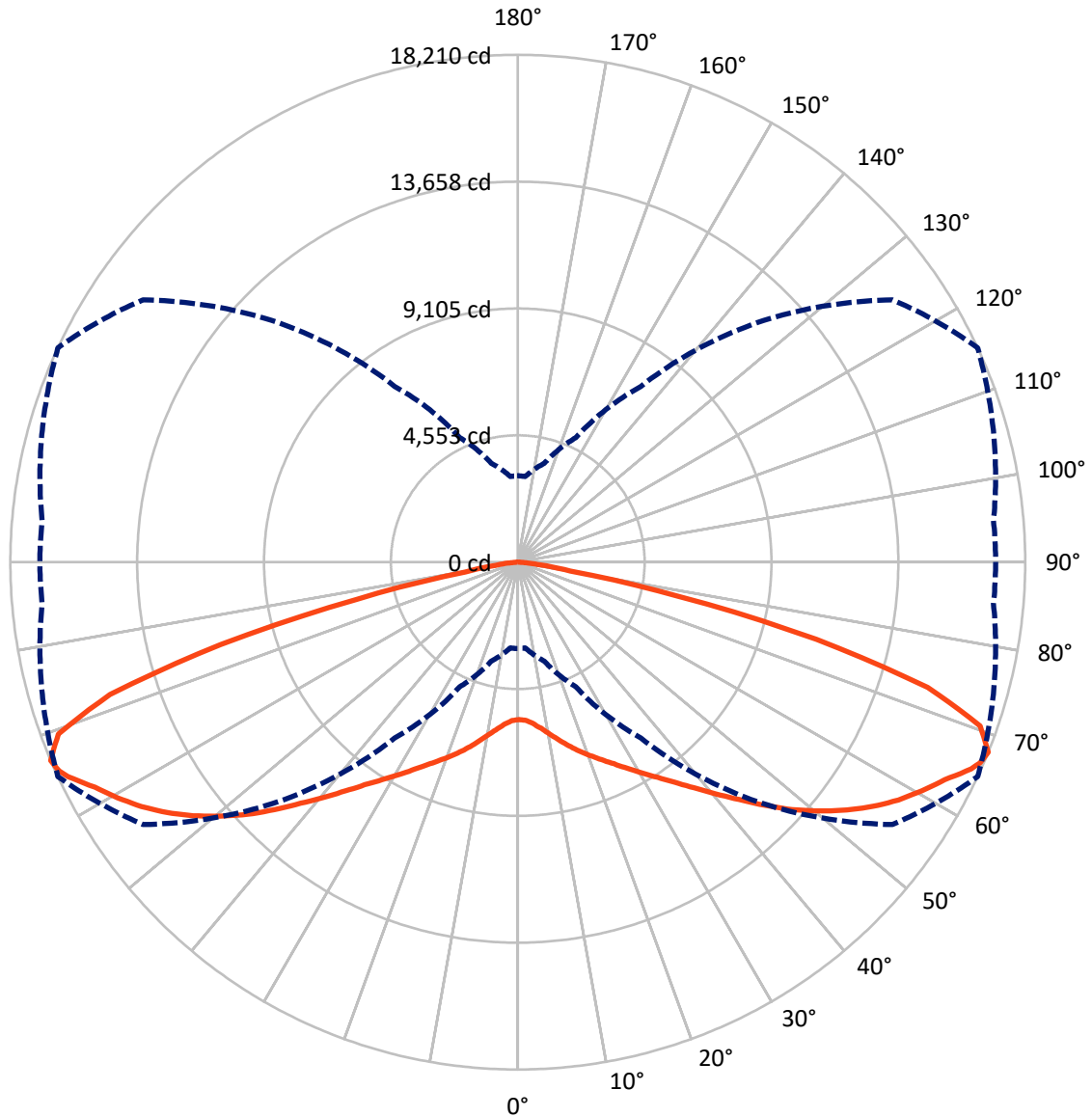
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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	26950.0	0.0	26950.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26950.0	0.0	26950.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	53900.0	0.0	53900.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.8	1.0
10°-20°	1863.6	3.5
20°-30°	3645.3	6.8
30°-40°	6200.1	11.5
40°-50°	9813.0	18.2
50°-60°	13011.8	24.1
60°-70°	12274.1	22.8
70°-80°	6067.7	11.3
80°-90°	467.6	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°	53900.0	100.0
0°-180°	53900.0	100.0

Coefficient of Utilization



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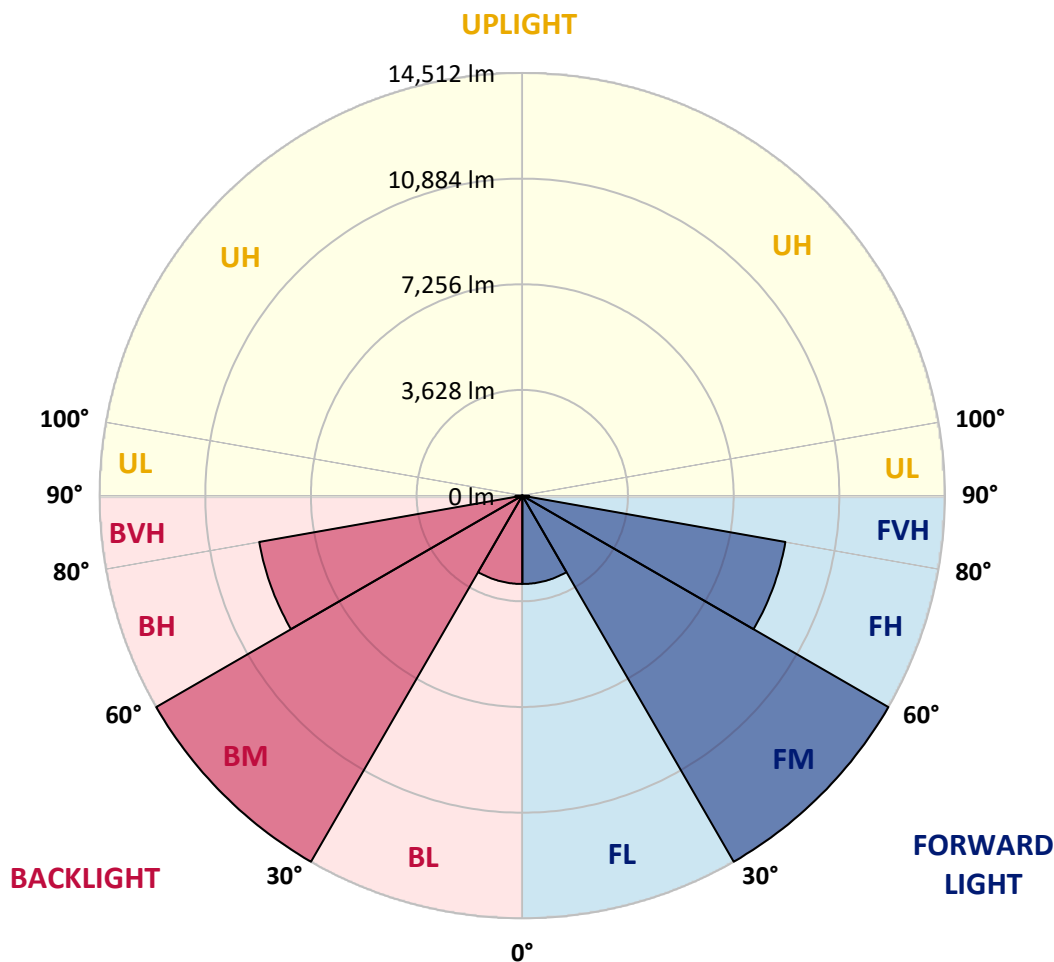
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3032.8	5.6			
FM	(30°-60°)	14512.4	26.9			
FH	(60°-80°)	9170.9	17.0			G4/12000
FVH	(80°-90°)	233.8	0.4			G3/500
BL	(0°-30°)	3032.8	5.6	B4/5000		
BM	(30°-60°)	14512.4	26.9	B5		
BH	(60°-80°)	9170.9	17.0	B5		G5
BVH	(80°-90°)	233.8	0.4			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5645.5	5645.5	5645.5	5645.5	5645.5	5645.5	5645.5	5645.5	5645.5	5645.5	5645.5
2.5°	5616.7	5622.4	5628.2	5636.9	5648.4	5665.8	5677.3	5686.0	5709.1	5712.0	5709.1
5°	5596.5	5602.2	5616.7	5642.7	5680.2	5732.2	5772.6	5821.7	5859.2	5885.2	5879.5
7.5°	5593.6	5605.1	5628.2	5683.1	5755.3	5844.8	5937.2	6021.0	6093.2	6150.9	6142.2
10°	5639.8	5654.2	5691.8	5772.6	5885.2	6015.2	6145.1	6269.3	6373.3	6448.3	6474.3
12.5°	5717.7	5729.3	5798.6	5919.9	6081.6	6243.3	6390.6	6543.6	6688.0	6815.1	6815.1
15°	5853.5	5873.7	5960.3	6136.5	6335.7	6523.4	6673.6	6835.3	6991.2	7135.6	7178.9
17.5°	6041.2	6070.0	6200.0	6425.2	6679.4	6852.6	6994.1	7127.0	7262.7	7401.3	7421.5
20°	6298.2	6327.1	6500.3	6771.8	7072.1	7280.0	7375.3	7407.1	7473.5	7606.3	7623.7
22.5°	6647.6	6676.5	6870.0	7176.1	7511.0	7736.3	7776.7	7701.6	7684.3	7788.3	7799.8
25°	7043.2	7069.2	7291.6	7620.8	7967.3	8212.8	8201.2	8016.4	7912.4	7976.0	7993.3
27.5°	7487.9	7525.5	7750.7	8091.5	8466.9	8683.5	8648.8	8380.2	8157.9	8146.3	8152.1
30°	8056.8	8097.2	8310.9	8637.3	9006.9	9206.1	9134.0	8773.0	8429.3	8313.8	8313.8
32.5°	8657.5	8758.5	8975.1	9315.9	9604.7	9749.0	9639.3	9206.1	8749.9	8588.2	8579.5
35°	9440.1	9494.9	9708.6	10040.7	10257.3	10369.9	10159.1	9694.2	9168.6	8978.0	8952.0
37.5°	10205.3	10251.5	10499.9	10817.5	11080.3	11074.5	10788.6	10274.6	9688.4	9474.7	9457.4
40°	10987.9	11037.0	11320.0	11611.6	11874.4	11851.3	11504.8	10930.1	10306.4	10066.7	10112.9
42.5°	11666.5	11721.4	12041.9	12457.7	12694.5	12688.8	12287.4	11640.5	10990.8	10777.1	10817.5
45°	12284.5	12333.6	12706.1	13182.6	13529.1	13572.4	13133.5	12449.1	11782.0	11507.7	11519.2
47.5°	12720.5	12812.9	13202.8	13748.6	14219.3	14372.3	13942.1	13272.1	12504.0	12218.1	12235.4
50°	13052.6	13110.4	13534.9	14155.7	14750.6	15068.3	14721.7	14034.5	13225.9	12922.7	12963.1
52.5°	13093.1	13162.4	13624.4	14340.6	15102.9	15585.2	15414.8	14779.5	13962.3	13650.4	13737.0
55°	12763.9	12804.3	13355.8	14225.1	15241.5	15969.3	16012.6	15472.6	14664.0	14427.2	14484.9
57.5°	11825.3	11929.3	12628.1	13685.0	15050.9	16174.3	16460.2	16102.1	15374.4	15140.5	15232.9
60°	10286.2	10390.1	11091.8	12431.8	14331.9	16079.0	16829.8	16659.4	16018.3	15830.6	15879.7
62.5°	8059.7	8051.0	8920.3	10563.4	12902.5	15611.2	17104.1	17196.5	16653.6	16416.9	16491.9
65°	5223.9	5249.9	6090.3	7860.5	10745.3	14421.4	17164.8	17880.9	17277.4	16919.3	16974.2
66°	4201.7	4279.6	4992.9	6624.5	9645.1	13641.7	16982.9	18083.1	17468.0	17034.8	17060.8
67.5°	3101.4	3087.0	3673.2	4932.3	7701.6	12160.3	16414.0	18210.1	17684.6	17138.8	17150.3
70°	1770.2	1767.3	1975.2	2708.7	4528.0	8562.2	13835.2	17600.8	18123.5	17514.2	17482.4
72.5°	1293.7	1285.0	1313.9	1495.9	2209.1	4323.0	9544.0	15383.0	17898.3	17453.6	17364.0
75°	1085.8	1080.0	1074.2	1097.3	1238.8	1957.9	5065.1	11065.9	15530.3	16382.2	16289.8
77.5°	886.5	886.5	889.4	883.7	889.4	1030.9	2099.4	5931.4	9457.4	10557.6	10814.6
80°	693.1	690.2	739.3	719.0	672.8	661.3	929.9	1908.8	3139.0	3121.7	2575.9
82.5°	511.1	476.5	563.1	548.7	496.7	421.6	542.9	814.3	1048.3	681.5	505.4
85°	323.4	320.5	398.5	363.9	303.2	199.3	259.9	349.4	433.2	262.8	213.7
87.5°	57.8	54.9	127.1	92.4	92.4	57.8	72.2	95.3	141.5	98.2	72.2
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)