

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: P458471

Luminaire Tested: **GALN-SA9D-827-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458471
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-827-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51464 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

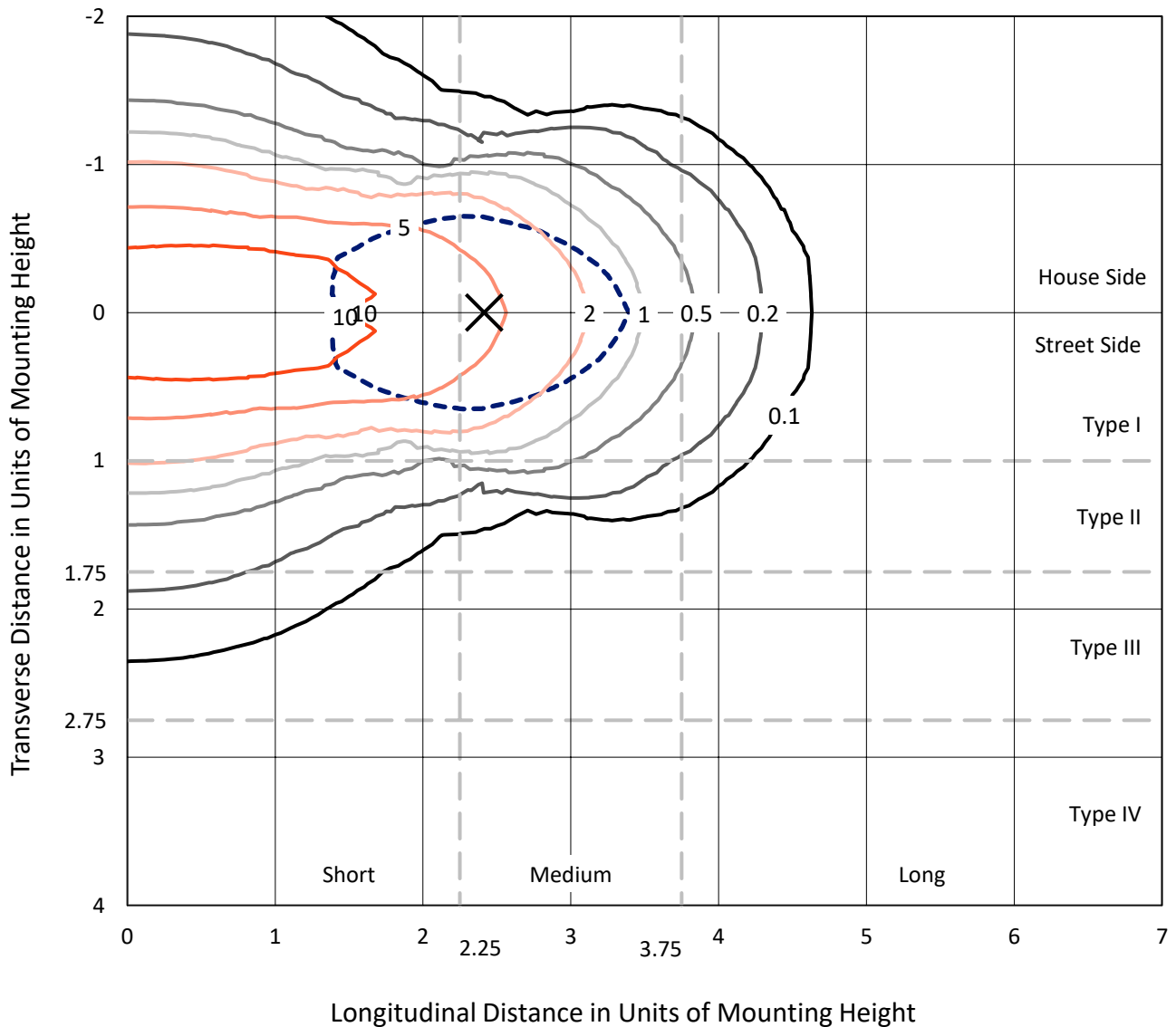
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

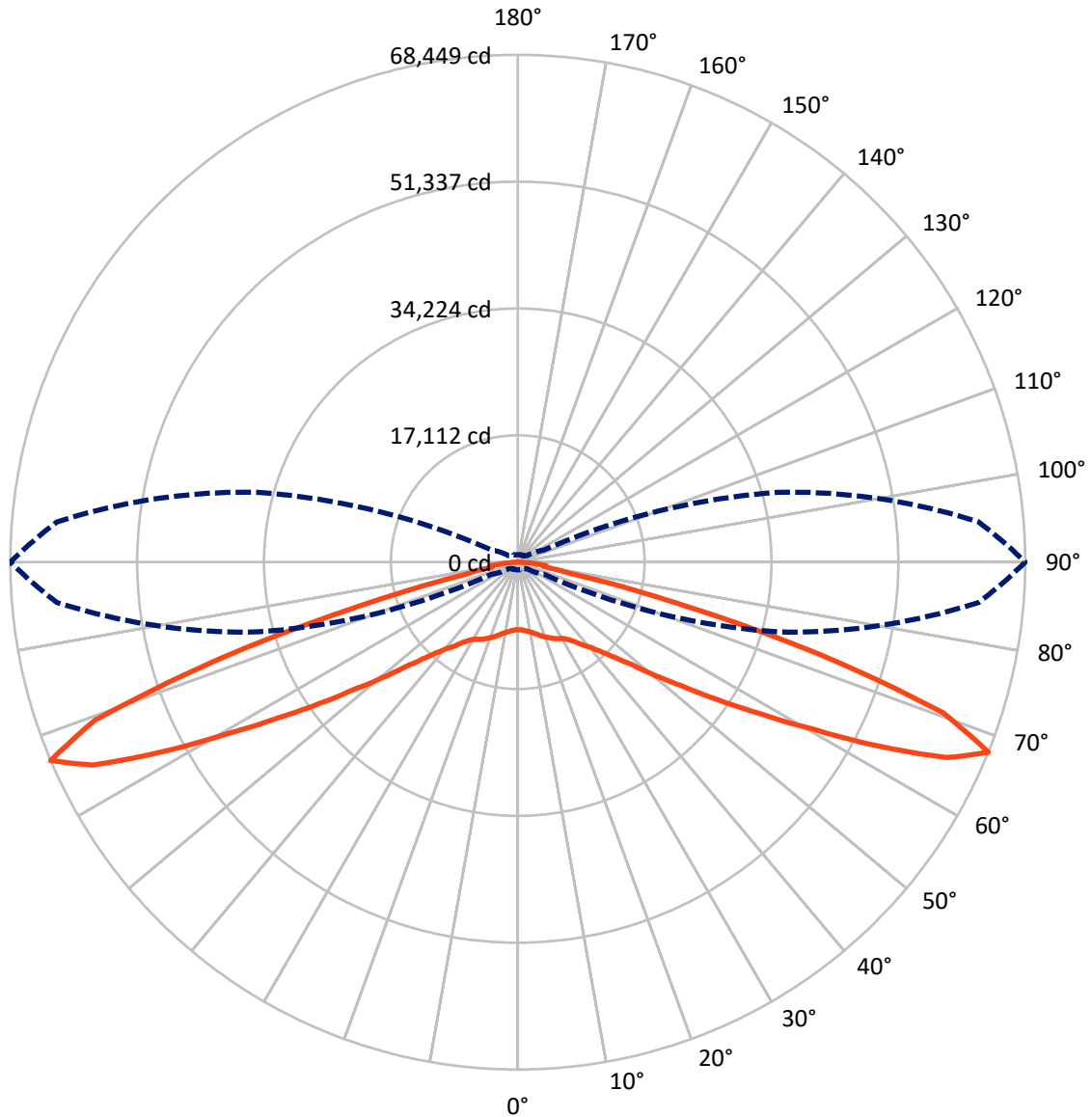
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25732.0	0.0	25732.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25732.0	0.0	25732.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	51464.0	0.0	51464.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	908.3	1.8
10°-20°	2906.2	5.6
20°-30°	4864.2	9.5
30°-40°	6589.8	12.8
40°-50°	8347.0	16.2
50°-60°	10427.5	20.3
60°-70°	12257.1	23.8
70°-80°	4688.9	9.1
80°-90°	475.0	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°	51464.0	100.0
0°-180°	51464.0	100.0



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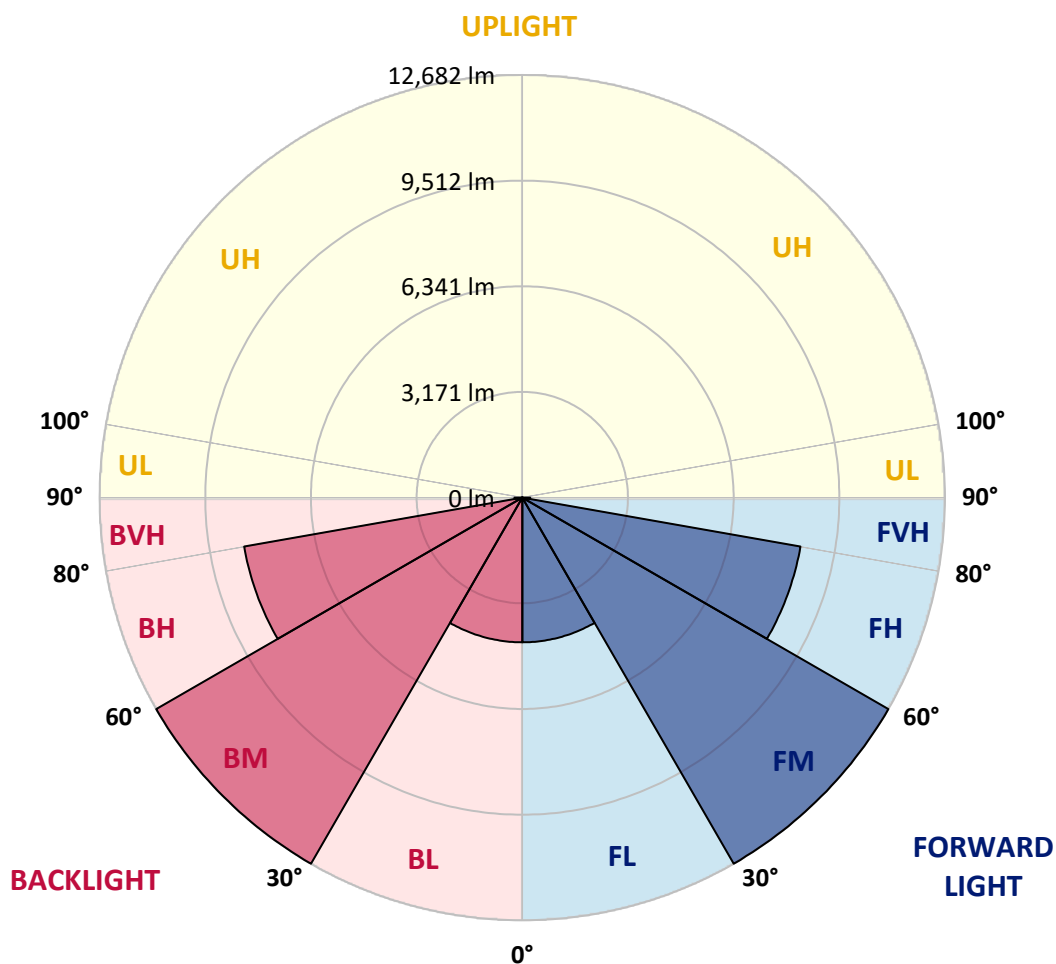
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4339.4	8.4			
FM	(30°-60°)	12682.1	24.6			
FH	(60°-80°)	8473.0	16.5			G4/12000
FVH	(80°-90°)	237.5	0.5			G3/500
BL	(0°-30°)	4339.4	8.4	B4/5000		
BM	(30°-60°)	12682.1	24.6	B5		
BH	(60°-80°)	8473.0	16.5	B5		G5
BVH	(80°-90°)	237.5	0.5			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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9110.7	9110.7	9110.7	9110.7	9110.7	9110.7	9110.7	9110.7	9110.7	9110.7	9110.7
2.5°	9227.6	9221.9	9224.7	9221.9	9230.4	9224.7	9190.5	9162.0	9139.2	9142.1	9133.5
5°	9424.2	9427.1	9429.9	9415.7	9435.6	9424.2	9370.1	9324.5	9278.9	9261.8	9256.1
7.5°	9586.6	9600.9	9609.4	9623.7	9657.9	9657.9	9629.4	9563.8	9464.1	9407.1	9404.3
10°	9749.1	9760.5	9786.1	9831.7	9888.7	9942.9	9931.5	9843.1	9714.9	9618.0	9595.2
12.5°	9806.1	9820.3	9905.8	10036.9	10165.1	10270.6	10270.6	10199.3	10034.1	9885.9	9843.1
15°	9606.6	9632.2	9786.1	10065.4	10401.7	10632.5	10683.8	10584.1	10407.4	10179.4	10128.1
17.5°	9210.5	9273.2	9498.3	9911.5	10470.1	10948.8	11097.0	11048.6	10820.6	10529.9	10470.1
20°	8785.9	8854.3	9093.6	9640.8	10413.1	11134.1	11564.4	11575.8	11293.7	10871.9	10783.5
22.5°	8318.5	8369.8	8677.6	9318.8	10242.1	11176.8	11966.2	12162.8	11781.0	11213.9	11088.5
25°	7794.1	7851.1	8173.2	8865.6	9920.1	11128.4	12333.8	12767.0	12291.1	11578.6	11419.0
27.5°	7292.6	7315.4	7660.2	8364.1	9495.4	11003.0	12604.6	13322.7	12855.3	11880.7	11678.4
30°	6811.0	6865.1	7170.0	7865.4	9008.1	10757.9	12838.2	13955.3	13462.3	12197.0	11937.7
32.5°	6300.9	6366.4	6697.0	7400.9	8520.8	10390.3	12980.7	14647.8	14308.7	12710.0	12433.6
35°	5810.7	5853.4	6186.9	6870.8	8044.9	9962.8	13006.4	15428.7	15400.2	13488.0	13120.4
37.5°	5309.1	5371.8	5708.1	6363.5	7540.5	9509.7	12878.1	16258.0	16716.8	14568.0	14171.9
40°	4827.5	4881.7	5212.2	5873.4	6967.7	8956.8	12573.2	17016.0	18252.8	15679.5	15118.1
42.5°	4303.2	4317.4	4679.3	5351.9	6406.3	8315.6	12134.3	17691.4	19965.5	17169.9	16471.7
45°	3707.6	3744.6	4080.9	4742.0	5762.2	7597.5	11538.7	18250.0	22137.1	19236.0	18284.2
47.5°	3112.0	3143.3	3451.1	4103.7	5058.4	6773.9	10621.1	18740.1	24365.6	21860.6	20612.4
50°	2530.6	2547.7	2798.5	3377.0	4266.1	5907.6	9484.1	18896.9	26884.8	25576.7	23983.7
52.5°	2000.5	2026.2	2217.1	2670.2	3419.7	4884.5	8255.8	18509.3	29825.7	29982.5	27736.9
55°	1621.5	1630.1	1772.6	2106.0	2673.1	3813.0	6773.9	17429.2	32989.0	35627.9	32763.9
57.5°	1396.4	1402.1	1481.9	1667.1	2057.5	2875.4	5255.0	15385.9	35830.2	42242.2	38560.3
60°	1268.1	1271.0	1316.6	1424.9	1630.1	2205.7	3764.6	12502.0	38634.4	49603.2	45764.5
62.5°	1188.4	1188.4	1219.7	1279.5	1379.3	1692.8	2727.2	9019.5	40555.1	57072.4	54644.4
65°	1111.4	1111.4	1134.2	1177.0	1231.1	1385.0	2014.8	5881.9	40506.7	62512.7	63575.6
67.5°	1023.1	1023.1	1040.2	1082.9	1114.3	1191.2	1556.0	3852.9	36385.9	62393.0	68448.7
70°	917.6	917.6	940.4	977.5	1003.1	1051.6	1228.3	2636.0	26730.9	53273.7	60874.0
72.5°	812.2	815.0	829.3	866.3	886.3	914.8	1020.2	1846.7	16397.6	36274.8	42564.2
75°	695.3	701.0	715.3	752.3	769.4	780.8	860.6	1316.6	8295.7	19558.0	22268.1
77.5°	561.4	572.8	581.4	621.3	632.7	649.7	709.6	951.8	3642.0	7027.5	7090.2
80°	410.4	424.6	450.3	487.3	495.9	507.3	541.5	675.4	1650.0	3208.8	3485.3
82.5°	302.1	322.0	290.7	339.1	339.1	324.9	381.9	453.1	758.0	3177.5	3801.6
85°	165.3	168.1	151.0	173.8	185.2	182.4	202.3	222.3	367.6	2120.2	2185.8
87.5°	39.9	42.7	45.6	54.1	65.5	65.5	71.2	62.7	119.7	686.8	393.3
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)