

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: P532360

Luminaire Tested: **GALN-SA7D-727-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-727-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38229 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

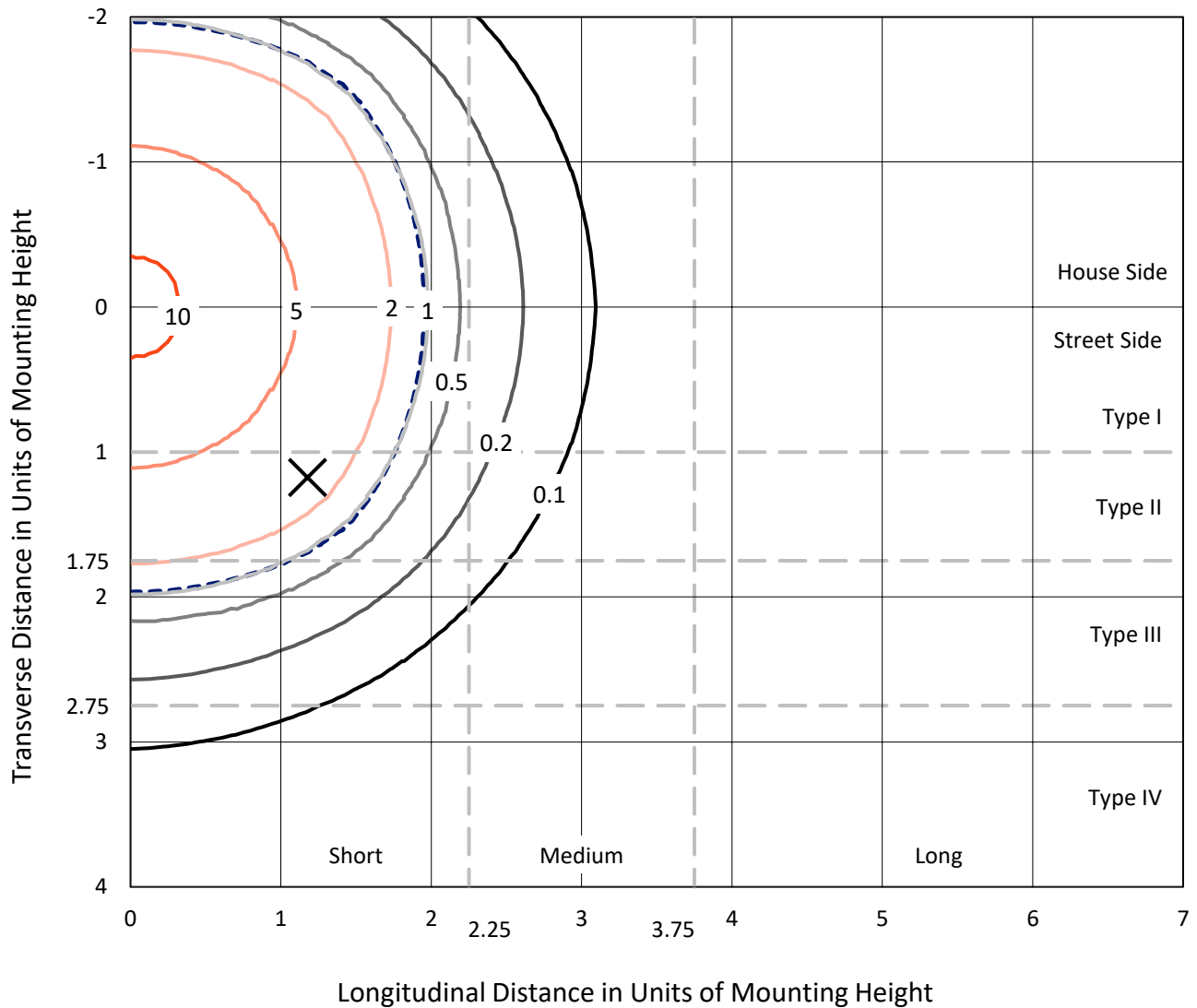
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

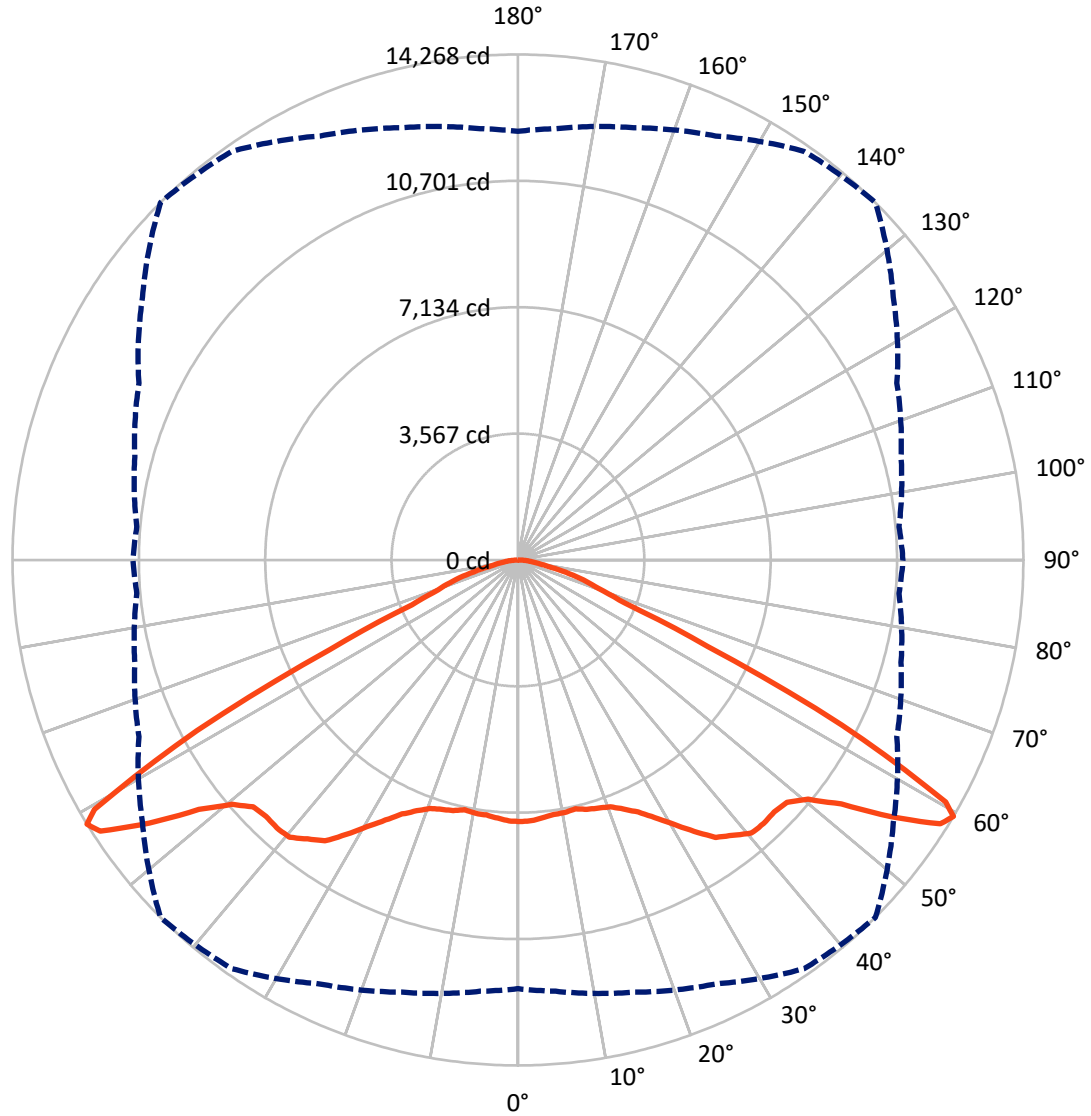
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19114.5	0.0	19114.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19114.5	0.0	19114.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	38229.0	0.0	38229.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	696.1	1.8
10°-20°	2070.0	5.4
20°-30°	3614.5	9.5
30°-40°	5772.8	15.1
40°-50°	7863.7	20.6
50°-60°	10633.9	27.8
60°-70°	5831.6	15.3
70°-80°	1491.9	3.9
80°-90°	254.5	0.7
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°	38229.0	100.0
0°-180°	38229.0	100.0



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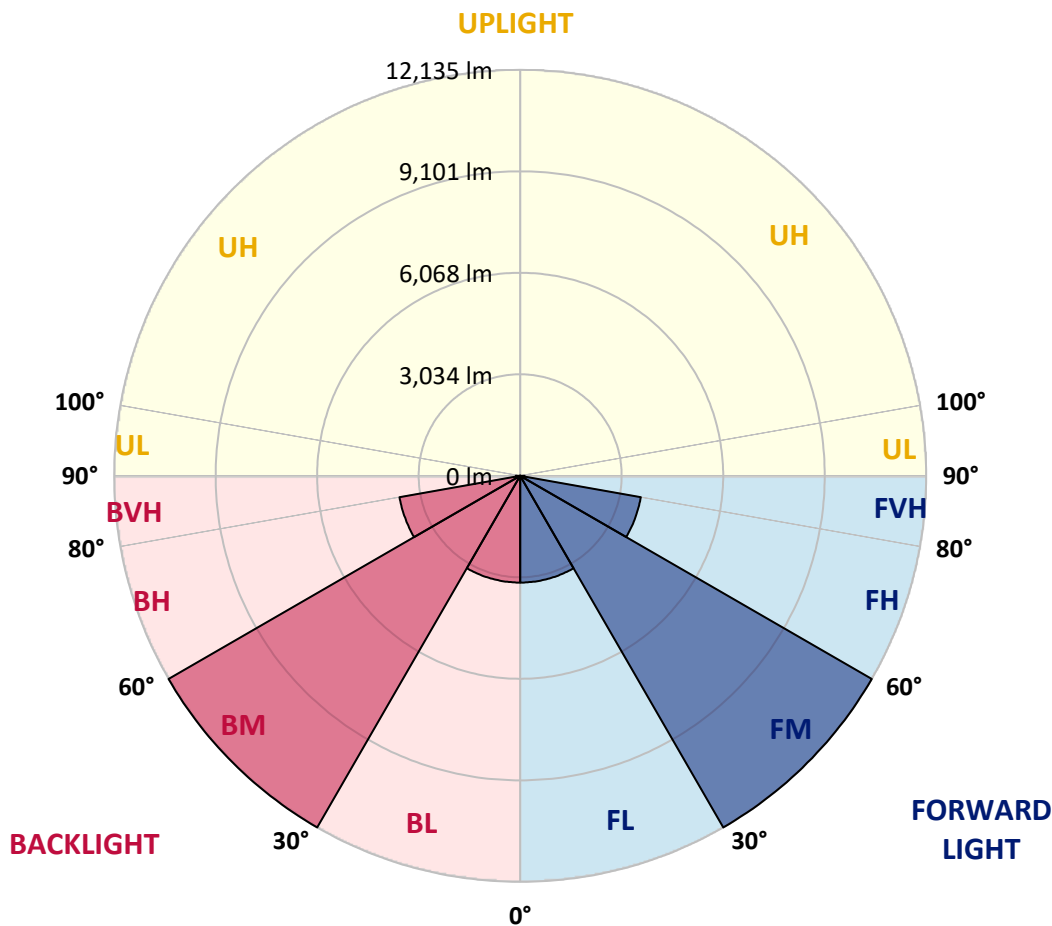
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3190.3	8.3			
FM (30°-60°)	12135.2	31.7			
FH (60°-80°)	3661.8	9.6			G2/5000
FVH (80°-90°)	127.2	0.3			G2/225
BL (0°-30°)	3190.3	8.3	B4/5000		
BM (30°-60°)	12135.2	31.7	B5		
BH (60°-80°)	3661.8	9.6	B4/5000		G2/5000
BVH (80°-90°)	127.2	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7384.0	7384.0	7384.0	7384.0	7384.0	7384.0	7384.0	7384.0	7384.0	7384.0	7384.0
2.5°	7339.9	7393.8	7354.6	7388.9	7384.0	7369.3	7344.8	7330.1	7310.5	7339.9	7290.9
5°	7310.5	7354.6	7398.7	7339.9	7339.9	7310.5	7295.8	7266.4	7266.4	7261.5	7256.6
7.5°	7359.5	7315.4	7295.8	7305.6	7315.4	7251.7	7295.8	7237.0	7188.0	7222.3	7261.5
10°	7315.4	7335.0	7261.5	7295.8	7241.9	7251.7	7222.3	7261.5	7207.6	7207.6	7207.6
12.5°	7359.5	7305.6	7330.1	7305.6	7290.9	7207.6	7246.8	7202.7	7197.8	7246.8	7202.7
15°	7447.7	7359.5	7339.9	7290.9	7305.6	7305.6	7266.4	7271.3	7217.4	7246.8	7256.6
17.5°	7418.3	7369.3	7354.6	7295.8	7344.8	7359.5	7286.0	7237.0	7271.3	7266.4	7261.5
20°	7442.8	7462.4	7447.7	7457.5	7477.1	7437.9	7369.3	7300.7	7256.6	7320.3	7315.4
22.5°	7599.6	7580.0	7570.2	7560.4	7594.7	7633.9	7540.8	7433.0	7433.0	7477.1	7496.7
25°	7727.0	7722.1	7717.2	7761.3	7878.9	7878.9	7761.3	7624.1	7589.8	7619.2	7594.7
27.5°	7913.2	7967.1	7947.5	8025.9	8197.4	8236.6	8079.8	7918.1	7825.0	7790.7	7834.8
30°	8339.5	8275.8	8290.5	8373.8	8525.7	8653.1	8413.0	8241.5	8114.1	8109.2	8128.8
32.5°	8623.7	8672.7	8716.8	8795.2	9035.3	9133.2	8844.2	8564.9	8486.5	8442.4	8457.1
35°	9192.0	9147.9	9138.1	9216.5	9456.6	9618.3	9255.7	9010.8	8907.9	9005.9	9005.9
37.5°	9731.0	9608.5	9515.4	9618.3	9838.8	9858.4	9549.7	9417.4	9363.5	9476.2	9471.3
40°	9985.8	9976.0	9760.4	9819.2	10113.2	10142.6	9853.5	9696.7	9686.9	9833.9	9980.9
42.5°	10250.4	10157.3	9941.7	9980.9	10162.2	10172.0	9897.6	9853.5	9961.3	10103.4	10113.2
45°	10294.5	10216.1	10078.9	9980.9	10113.2	10142.6	9980.9	10010.3	10020.1	10191.6	10191.6
47.5°	10382.7	10372.9	10294.5	10221.0	10245.5	10221.0	10118.1	10162.2	10309.2	10392.5	10353.3
50°	10627.7	10524.8	10603.2	10539.5	10544.4	10613.0	10519.9	10564.0	10534.6	10461.1	10412.1
52.5°	11166.7	11117.7	11186.3	11230.4	11279.4	11436.2	11328.4	11093.2	10872.7	10676.7	10671.8
55°	11955.5	11989.8	12122.1	12347.5	12538.6	12788.5	12269.1	11705.6	11352.9	11044.2	11063.8
57.5°	12700.3	12675.8	12857.1	13371.6	13930.2	14057.6	13038.4	12234.8	11661.5	11465.6	11382.3
59°	12102.5	12220.1	12631.7	13205.0	14082.1	14268.2	12935.5	11803.6	11196.1	10799.2	10867.8
60°	11161.8	11205.9	11573.4	12372.0	13557.8	13876.3	12244.6	11137.3	10328.8	10098.5	10201.4
62.5°	7888.7	7854.4	8119.0	8770.7	9833.9	10265.1	9103.8	8324.8	7815.2	7560.4	7619.2
65°	4194.2	4351.0	4458.8	4865.5	5429.0	5884.7	5404.5	5066.4	4782.2	4571.5	4566.6
67.5°	2832.1	2812.5	2837.0	2930.1	3121.2	3248.6	3238.8	3067.3	3042.8	3003.6	3047.7
70°	2386.2	2376.4	2332.3	2332.3	2371.5	2400.9	2435.2	2454.8	2494.0	2543.0	2538.1
72.5°	1935.4	1910.9	1881.5	1866.8	1915.8	1930.5	1974.6	1994.2	2028.5	2023.6	2067.7
75°	1278.9	1278.9	1313.1	1352.3	1367.0	1396.4	1401.3	1460.1	1460.1	1469.9	1430.7
77.5°	715.4	695.8	720.3	759.5	793.8	847.7	901.6	945.7	970.2	960.4	960.4
80°	416.5	416.5	441.0	485.1	529.2	578.2	617.4	651.7	676.2	666.4	646.8
82.5°	259.7	259.7	284.2	328.3	362.6	392.0	445.9	490.0	519.4	509.6	485.1
85°	132.3	132.3	161.7	191.1	235.2	254.8	249.9	230.3	225.4	200.9	200.9
87.5°	34.3	34.3	49.0	53.9	44.1	49.0	49.0	49.0	49.0	49.0	53.9
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)