

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: P532356

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532356
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
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-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39775 lumens
Efficiency: N/A
Efficacy: 91.9 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

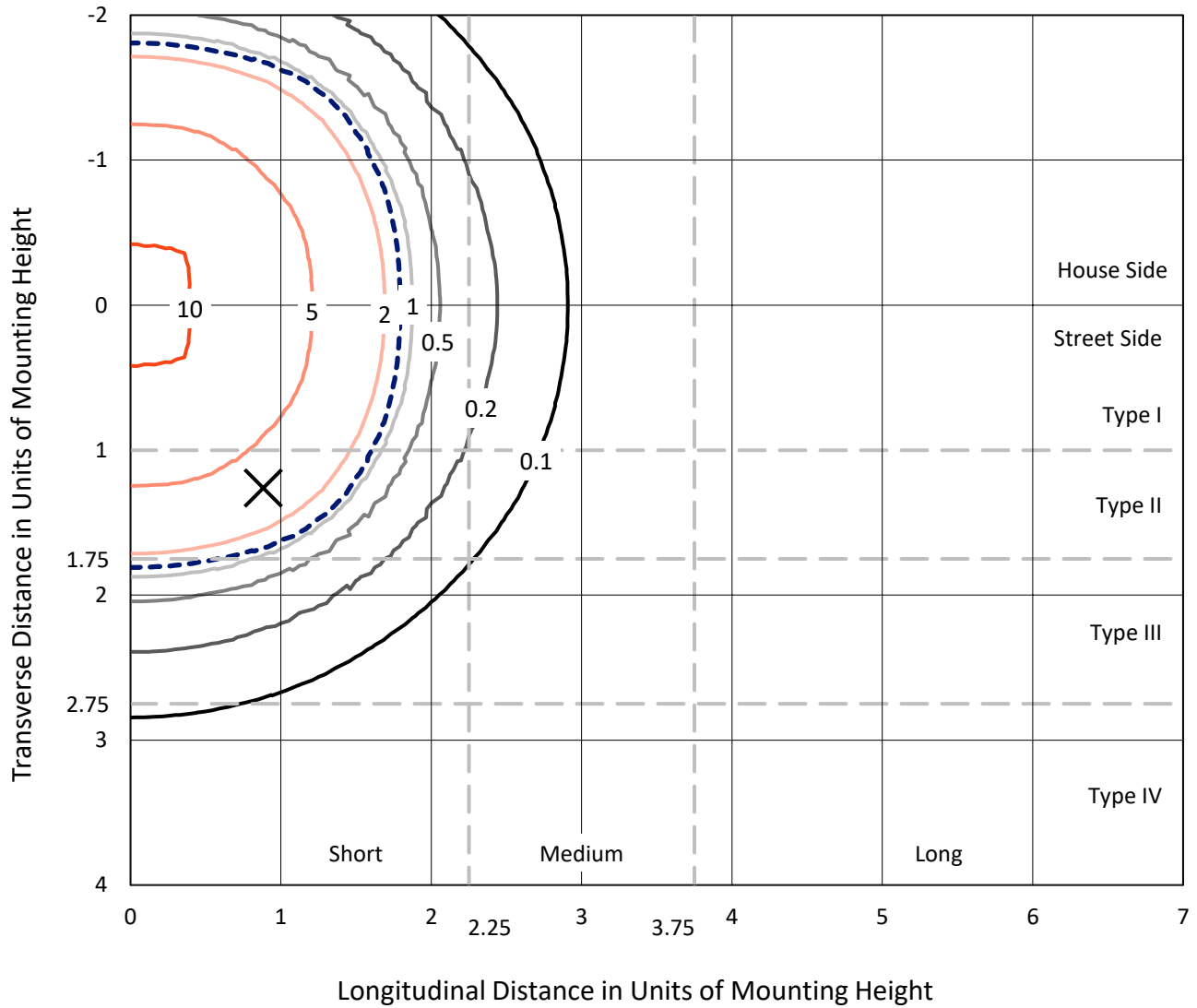
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

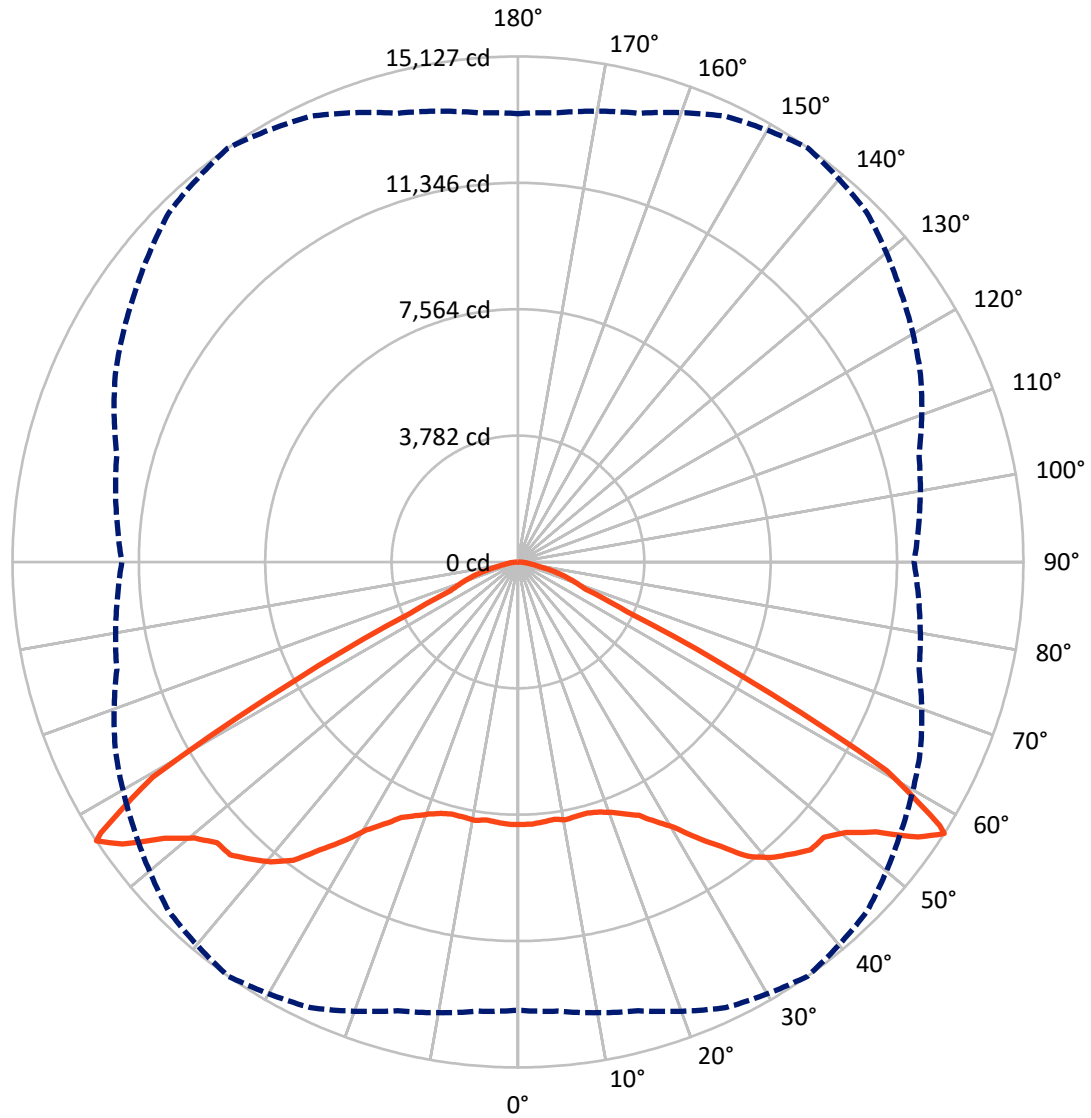
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19887.5	0.0	19887.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19887.5	0.0	19887.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	39775.0	0.0	39775.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	744.7	1.9
10°-20°	2205.6	5.5
20°-30°	3852.1	9.7
30°-40°	6311.7	15.9
40°-50°	9254.5	23.3
50°-60°	11656.8	29.3
60°-70°	4384.0	11.0
70°-80°	1165.7	2.9
80°-90°	199.9	0.5
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°	39775.0	100.0
0°-180°	39775.0	100.0

Coefficient of Utilization

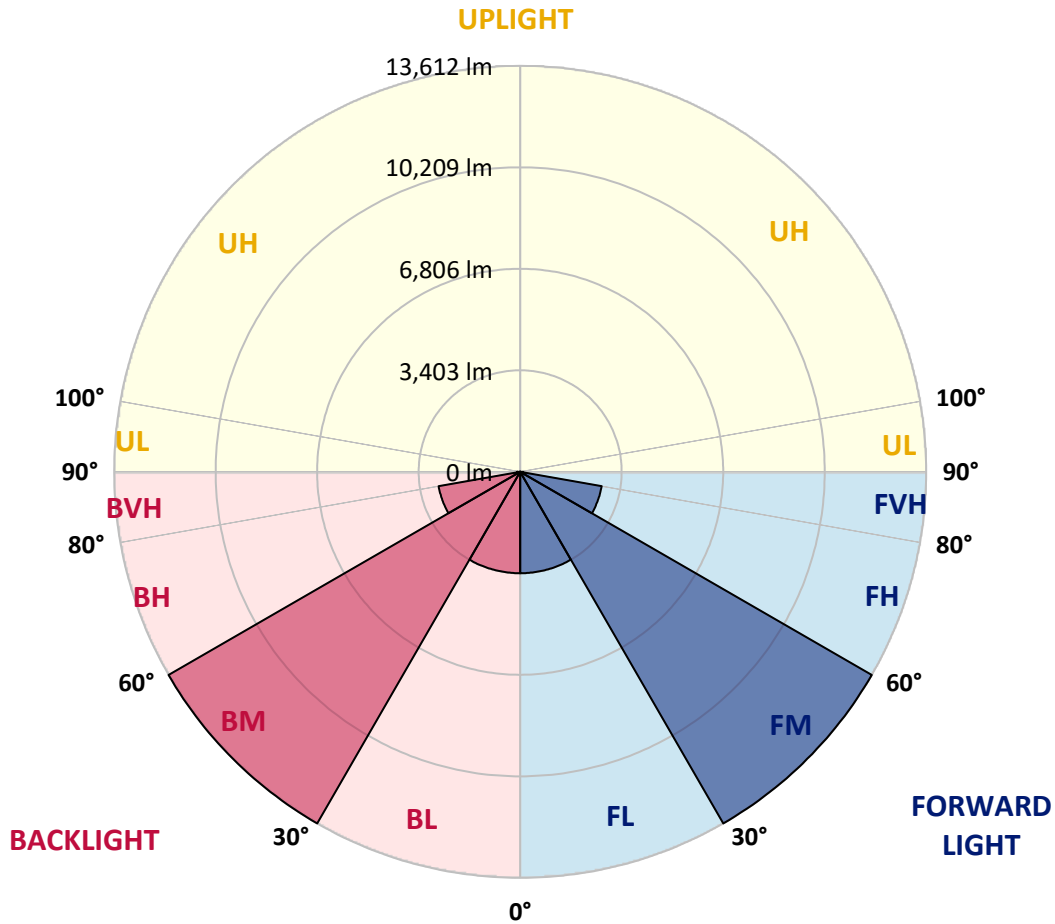


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3401.2	8.6			
FM (30°-60°)	13611.5	34.2			
FH (60°-80°)	2774.8	7.0			G2/5000
FVH (80°-90°)	99.9	0.3			G1/100
BL (0°-30°)	3401.2	8.6	B4/5000		
BM (30°-60°)	13611.5	34.2	B5		
BH (60°-80°)	2774.8	7.0	B4/5000		G2/5000
BVH (80°-90°)	99.9	0.3			G1/100
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°	7855.3	7855.3	7855.3	7855.3	7855.3	7855.3	7855.3	7855.3	7855.3	7855.3	7855.3
2.5°	7816.1	7894.5	7860.2	7840.6	7855.3	7830.8	7791.6	7835.7	7825.9	7786.7	7772.0
5°	7796.5	7855.3	7816.1	7855.3	7816.1	7884.7	7865.1	7791.6	7879.8	7796.5	7825.9
7.5°	7781.8	7801.4	7811.2	7791.6	7776.9	7860.2	7816.1	7781.8	7732.8	7718.1	7742.6
10°	7747.5	7796.5	7723.0	7821.0	7840.6	7781.8	7781.8	7718.1	7678.9	7654.4	7737.7
12.5°	7835.7	7752.4	7742.6	7791.6	7806.3	7830.8	7762.2	7727.9	7654.4	7664.2	7649.5
15°	7732.8	7767.1	7772.0	7781.8	7796.5	7855.3	7791.6	7718.1	7688.7	7585.7	7595.6
17.5°	7772.0	7737.7	7772.0	7884.7	7865.1	7909.2	7840.6	7727.9	7659.3	7600.5	7678.9
20°	7840.6	7825.9	7840.6	7977.8	8002.3	8041.5	7982.7	7879.8	7747.5	7678.9	7718.1
22.5°	7914.1	7904.3	7914.1	8046.4	8188.5	8237.5	8178.7	7938.6	7870.0	7742.6	7698.5
25°	8046.4	8056.2	8159.1	8306.1	8399.2	8492.3	8384.5	8213.0	7992.5	7914.1	7821.0
27.5°	8340.4	8364.9	8423.7	8639.3	8801.0	8884.3	8732.4	8497.2	8360.0	8198.3	8173.8
30°	8703.0	8703.0	8805.9	8992.2	9212.7	9340.1	9153.9	8874.5	8707.9	8619.7	8565.8
32.5°	9183.3	9129.4	9168.6	9496.9	9839.9	9947.7	9697.8	9354.8	9090.2	8972.6	8933.3
35°	9594.9	9629.2	9717.4	10070.2	10452.5	10702.4	10310.3	9864.4	9594.9	9487.1	9467.5
37.5°	10129.0	10187.8	10231.9	10717.1	11177.7	11270.8	10893.5	10535.8	10207.4	10119.2	10070.2
40°	10883.7	10844.5	10859.2	11216.9	11633.4	11692.2	11319.8	11065.0	10795.5	10741.6	10741.6
42.5°	11506.0	11461.9	11510.9	11643.2	11961.8	11917.7	11711.8	11525.6	11412.9	11354.1	11412.9
45°	11883.4	11873.6	11961.8	12059.8	12285.2	12138.2	11976.5	12005.9	11898.1	11800.1	11795.2
47.5°	12295.0	12231.3	12339.1	12486.1	12314.6	12246.0	12236.2	12299.9	12265.6	12094.1	12040.2
50°	12495.9	12471.4	12642.9	12814.4	12721.3	12564.5	12598.8	12701.7	12260.7	12030.4	11898.1
52.5°	13034.9	13039.8	13368.2	13461.3	13422.1	13191.8	13265.3	12985.9	12466.5	12143.1	12157.8
55°	13882.7	13848.4	14215.9	14490.4	14534.5	14240.4	13887.6	13495.6	12843.8	12515.5	12417.5
57°	13417.2	13495.6	13902.3	14715.8	15127.4	14779.5	14010.1	13294.7	12427.3	12030.4	11854.0
57.5°	12794.8	12922.2	13627.9	14446.2	14877.5	14848.1	13858.2	12922.2	12148.0	11530.5	11545.2
60°	9374.4	9398.9	10035.9	11334.5	12682.1	12711.5	11506.0	10266.2	9403.8	8732.4	8825.5
62.5°	4944.5	5057.2	5312.0	6355.8	7522.0	7806.3	7076.1	6439.1	5694.2	5184.6	5233.6
65°	2616.8	2602.1	2724.6	3018.6	3592.0	3739.0	3641.0	3136.2	2876.5	2793.2	2798.1
67.5°	2126.8	2151.3	2136.6	2151.3	2190.5	2254.2	2239.5	2259.1	2273.8	2298.3	2293.4
70°	1803.3	1803.3	1813.1	1818.0	1818.0	1847.4	1881.7	1945.4	1950.3	1974.8	1984.6
72.5°	1421.1	1411.3	1426.0	1460.3	1465.2	1489.7	1538.7	1577.9	1592.6	1592.6	1563.2
75°	965.4	975.2	994.8	1024.2	1053.6	1097.7	1136.9	1161.4	1171.2	1156.5	1141.8
77.5°	543.9	553.7	568.4	612.5	646.8	686.0	730.2	754.7	779.2	784.1	754.7
80°	323.4	323.4	347.9	382.2	421.4	460.6	499.8	529.2	539.0	539.0	524.3
82.5°	196.0	200.9	220.5	254.8	289.1	313.6	347.9	372.4	392.0	387.1	377.3
85°	102.9	102.9	122.5	151.9	176.4	200.9	200.9	186.2	176.4	151.9	142.1
87.5°	34.3	29.4	39.2	39.2	34.3	39.2	39.2	44.1	44.1	44.1	44.1
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)