

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: P459296

Luminaire Tested: **GALN-SA7D-735-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459296
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7D-735-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52644 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

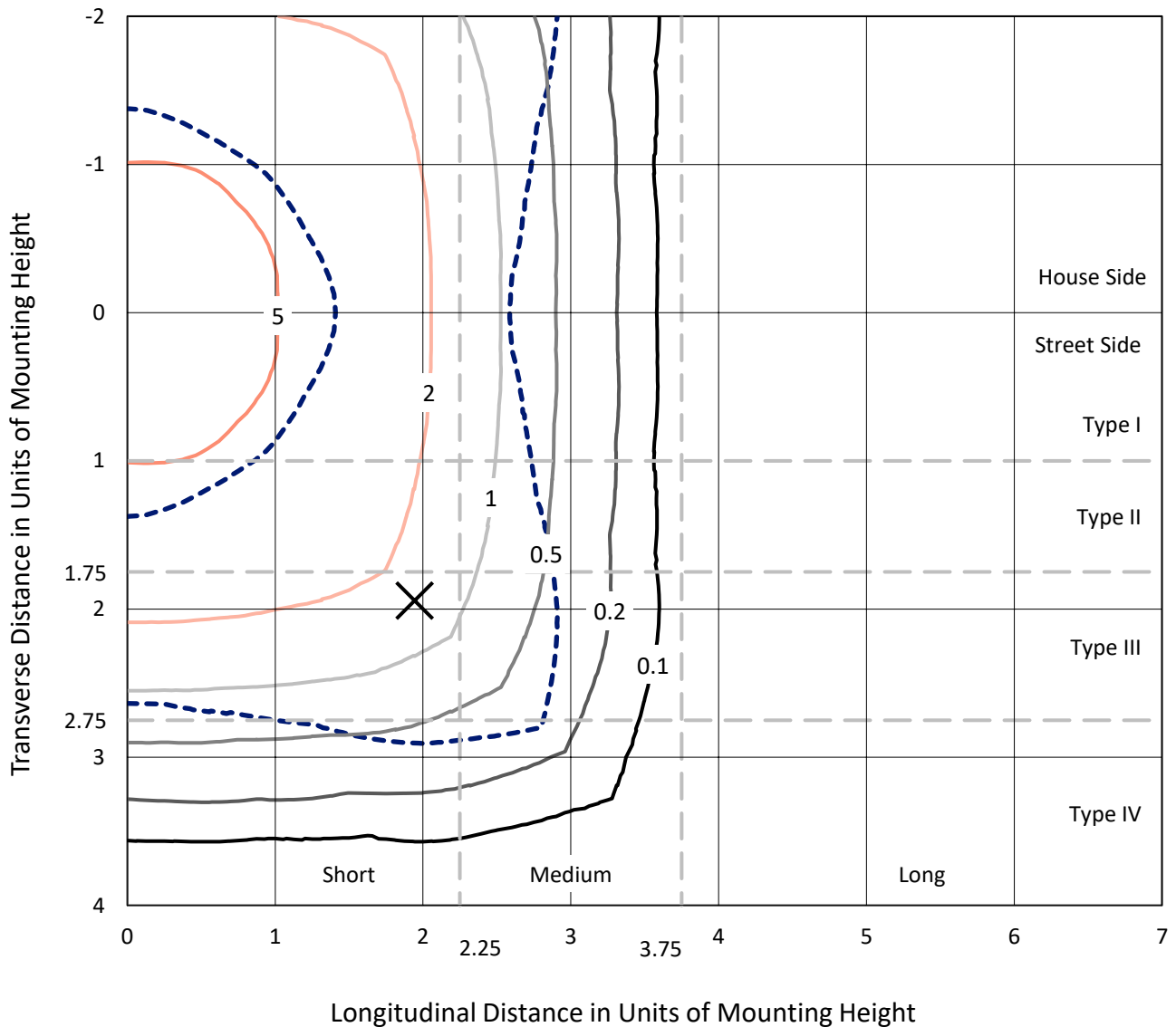
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

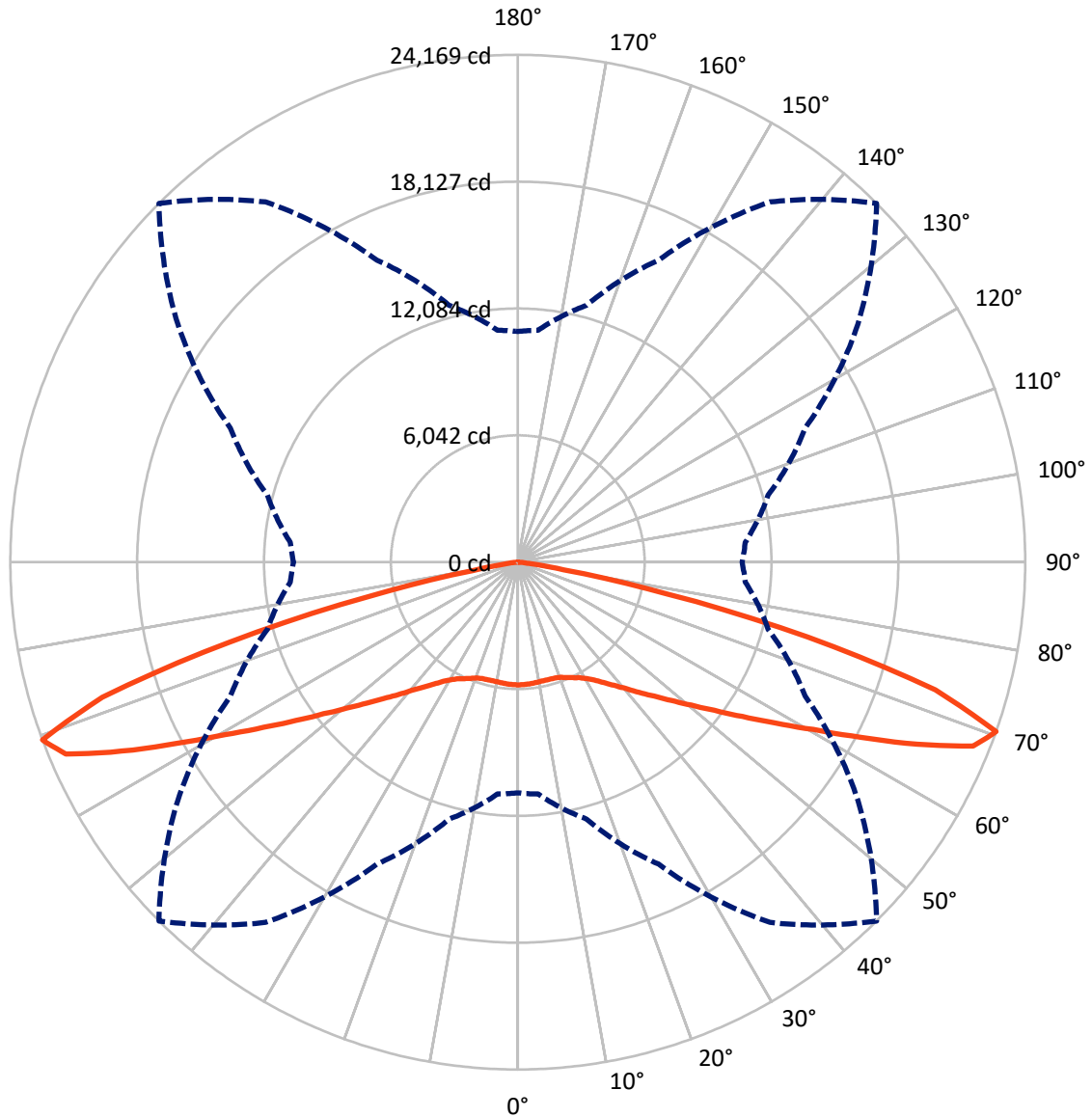
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26322.0	0.0	26322.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26322.0	0.0	26322.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	52644.0	0.0	52644.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	554.3	1.1
10°-20°	1626.7	3.1
20°-30°	2782.2	5.3
30°-40°	4415.9	8.4
40°-50°	7124.0	13.5
50°-60°	11591.0	22.0
60°-70°	16802.7	31.9
70°-80°	7453.1	14.2
80°-90°	294.0	0.6
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°	52644.0	100.0
0°-180°	52644.0	100.0

Coefficient of Utilization



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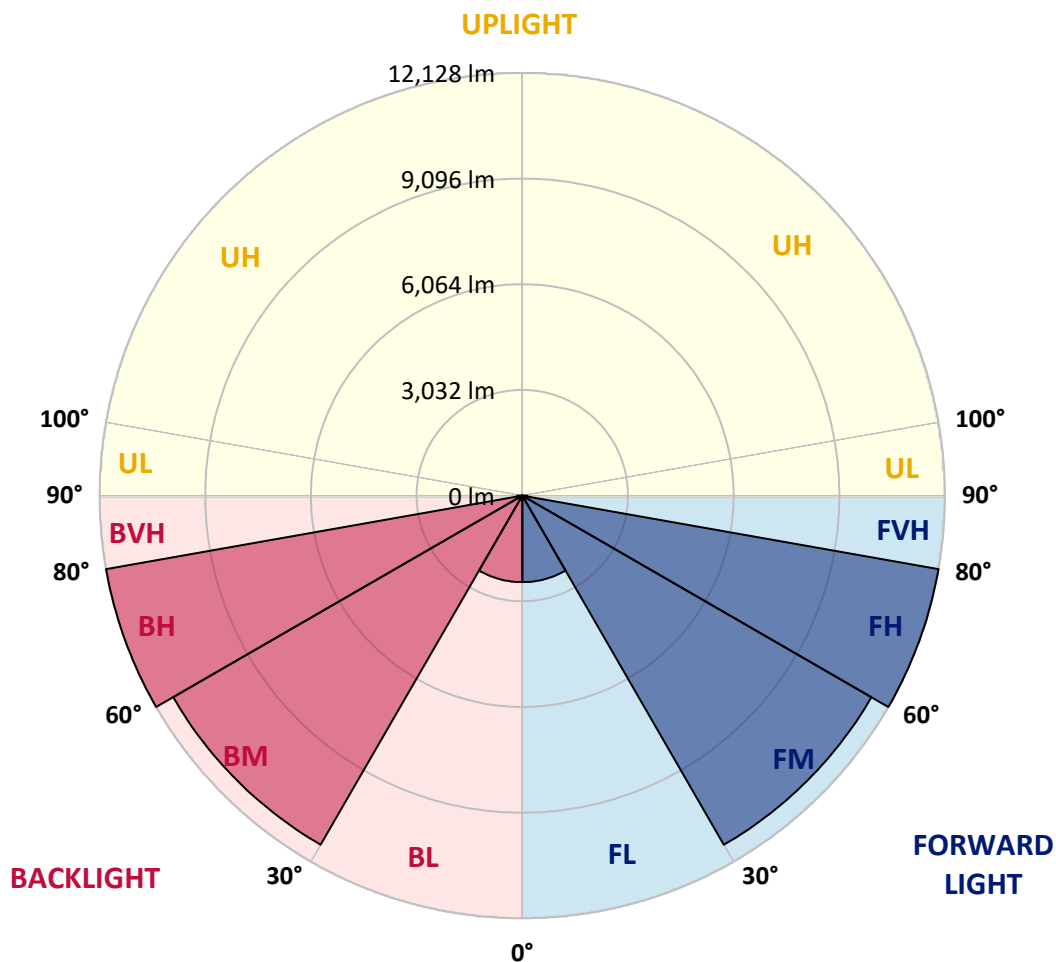
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2481.6	4.7			
FM (30°-60°)	11565.5	22.0			
FH (60°-80°)	12127.9	23.0			G5
FVH (80°-90°)	147.0	0.3			G2/225
BL (0°-30°)	2481.6	4.7	B3/2500		
BM (30°-60°)	11565.5	22.0	B5		
BH (60°-80°)	12127.9	23.0	B5		G5
BVH (80°-90°)	147.0	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-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5845.9	5845.9	5845.9	5845.9	5845.9	5845.9	5845.9	5845.9	5845.9	5845.9	5845.9
2.5°	5845.9	5851.4	5843.1	5837.5	5834.8	5834.8	5832.0	5834.8	5851.4	5854.2	5845.9
5°	5829.2	5834.8	5832.0	5826.4	5823.7	5823.7	5820.9	5818.1	5832.0	5837.5	5834.8
7.5°	5807.0	5809.8	5807.0	5804.3	5807.0	5804.3	5795.9	5790.4	5801.5	5801.5	5798.7
10°	5768.2	5773.7	5771.0	5773.7	5779.3	5779.3	5768.2	5757.1	5759.9	5754.3	5754.3
12.5°	5721.0	5729.3	5732.1	5743.2	5757.1	5773.7	5748.8	5723.8	5718.2	5715.5	5712.7
15°	5690.5	5698.8	5709.9	5721.0	5746.0	5782.1	5746.0	5707.1	5696.0	5684.9	5679.4
17.5°	5682.2	5693.3	5709.9	5726.6	5759.9	5795.9	5765.4	5726.6	5698.8	5682.2	5676.6
20°	5704.4	5712.7	5737.7	5768.2	5815.3	5851.4	5820.9	5779.3	5737.7	5712.7	5704.4
22.5°	5748.8	5762.6	5793.2	5848.6	5915.2	5967.9	5926.3	5857.0	5790.4	5757.1	5746.0
25°	5845.9	5857.0	5893.0	5967.9	6045.6	6095.6	6051.2	5970.7	5879.2	5834.8	5820.9
27.5°	5992.9	6009.6	6048.4	6137.2	6201.0	6228.7	6198.2	6142.7	6076.2	6029.0	6017.9
30°	6201.0	6220.4	6278.7	6373.0	6414.6	6431.3	6417.4	6381.3	6334.2	6284.2	6273.1
32.5°	6481.2	6492.3	6558.9	6647.7	6686.5	6692.1	6675.4	6658.8	6581.1	6497.9	6492.3
35°	6794.7	6814.2	6894.6	7000.1	7036.1	7038.9	7005.6	6980.6	6889.1	6822.5	6822.5
37.5°	7210.9	7219.2	7296.9	7416.2	7455.1	7444.0	7427.3	7405.1	7308.0	7222.0	7224.8
40°	7699.2	7715.9	7782.5	7921.2	7921.2	7907.3	7918.4	7901.8	7804.7	7721.4	7724.2
42.5°	8279.1	8287.4	8367.9	8514.9	8503.8	8476.1	8487.2	8465.0	8404.0	8309.6	8276.3
45°	8897.8	8931.1	9069.8	9211.3	9189.1	9100.4	9144.7	9139.2	9083.7	8942.2	8950.5
47.5°	9644.2	9699.6	9832.8	10002.1	9977.1	9838.4	9888.3	9921.6	9843.9	9688.5	9660.8
50°	10484.8	10520.9	10717.9	10876.0	10853.8	10706.8	10820.5	10826.1	10631.9	10412.7	10412.7
52.5°	11381.0	11417.1	11683.4	11930.3	11944.2	11730.6	11822.1	11816.6	11500.3	11211.7	11156.3
55°	12385.4	12402.0	12746.0	13109.5	13187.2	12979.1	12990.2	12879.2	12468.6	12132.9	12102.4
57.5°	13423.0	13484.1	13864.2	14335.8	14566.1	14438.5	14380.2	14083.4	13686.6	13300.9	13281.5
60°	14571.7	14574.4	15068.3	15626.0	16092.1	16178.1	15939.5	15542.7	15029.5	14519.0	14496.8
62.5°	15367.9	15487.2	16111.5	17054.8	17890.0	18372.7	17742.9	16910.6	15900.7	15076.6	14993.4
65°	15531.6	15612.1	16563.8	18161.9	19868.2	20908.6	19452.0	17681.9	15958.9	14860.2	14804.7
67.5°	14208.2	14294.2	15576.0	18028.7	21255.4	23389.0	20561.8	17310.1	14971.2	13611.7	13503.5
70°	10989.8	11086.9	12671.1	15870.1	20947.5	24168.7	19771.1	15098.8	12346.5	10878.8	10681.8
72.5°	5843.1	6201.0	7555.0	10892.7	17002.1	20808.7	16211.4	11017.5	7962.8	6509.0	6248.2
75°	2133.6	2178.0	2932.6	4830.4	9891.1	14269.2	10271.2	5254.9	3021.4	2333.4	2214.0
77.5°	882.3	879.5	965.5	1459.4	3593.0	7308.0	4009.2	1542.6	962.8	890.6	879.5
80°	521.6	521.6	574.3	607.6	946.1	2205.7	1057.1	688.1	577.1	527.2	535.5
82.5°	233.1	246.9	363.5	382.9	457.8	604.8	510.5	438.4	377.3	260.8	235.8
85°	127.6	111.0	191.4	199.8	219.2	224.7	241.4	238.6	219.2	127.6	130.4
87.5°	25.0	30.5	55.5	41.6	47.2	41.6	55.5	77.7	80.5	44.4	36.1
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)