

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: P459301

Luminaire Tested: **GALN-SA7D-735-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459301
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-SA7D-735-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51787 lumens
Efficiency: N/A
Efficacy: 119.6 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

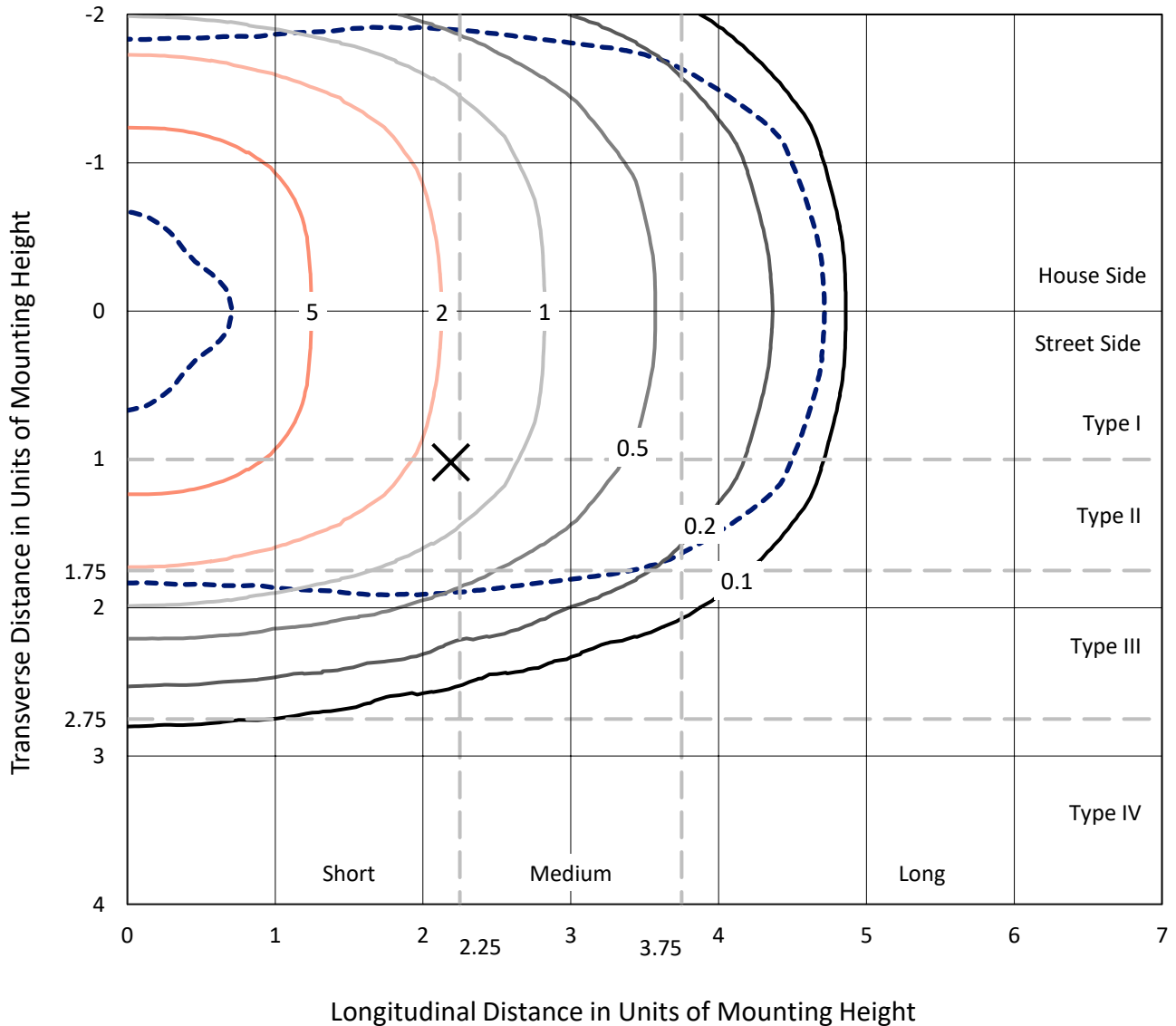
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

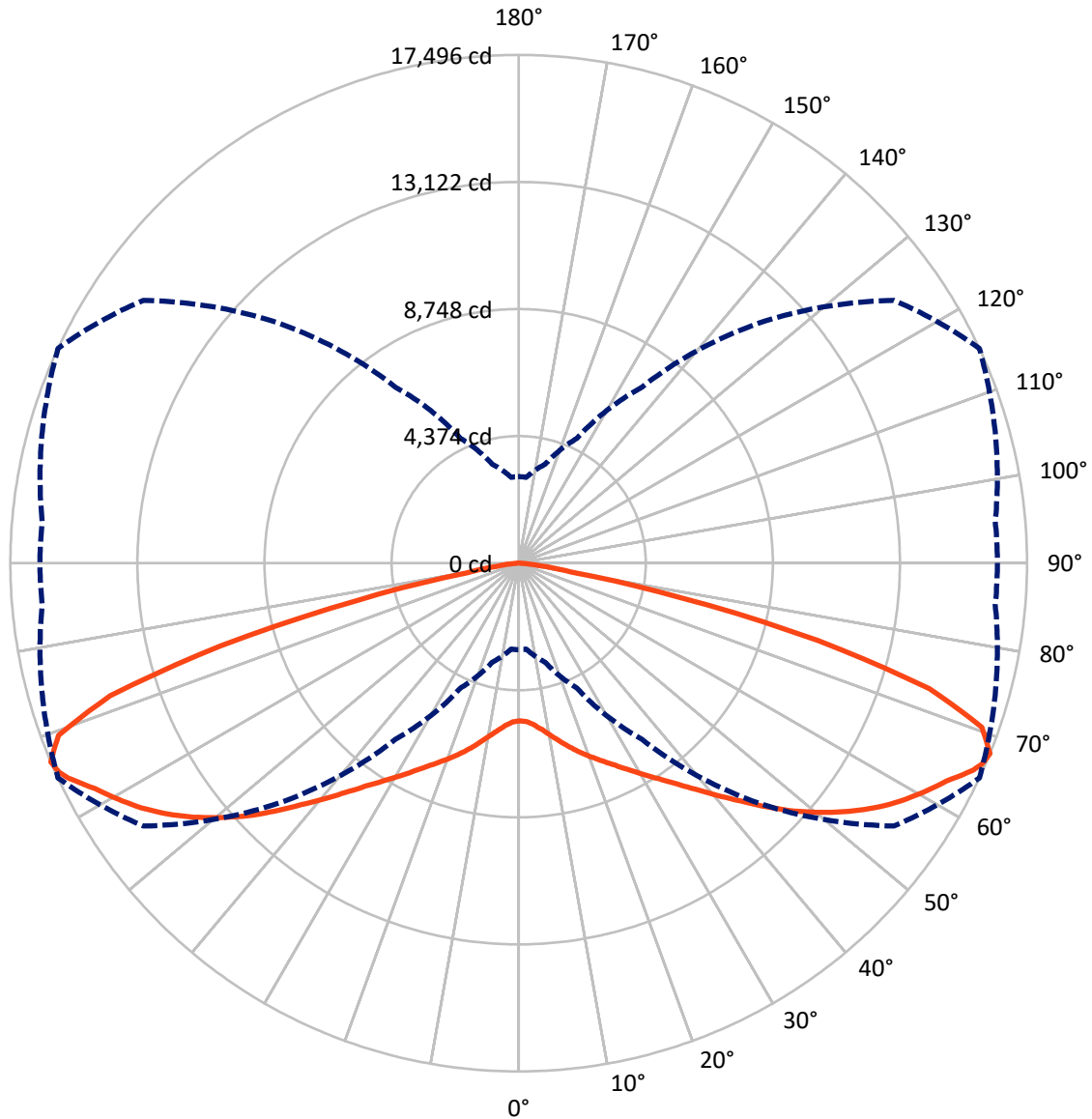
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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	25893.5	0.0	25893.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25893.5	0.0	25893.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	51787.0	0.0	51787.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.0	1.0
10°-20°	1790.5	3.5
20°-30°	3502.4	6.8
30°-40°	5957.1	11.5
40°-50°	9428.3	18.2
50°-60°	12501.7	24.1
60°-70°	11792.9	22.8
70°-80°	5829.8	11.3
80°-90°	449.3	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°	51787.0	100.0
0°-180°	51787.0	100.0

Coefficient of Utilization



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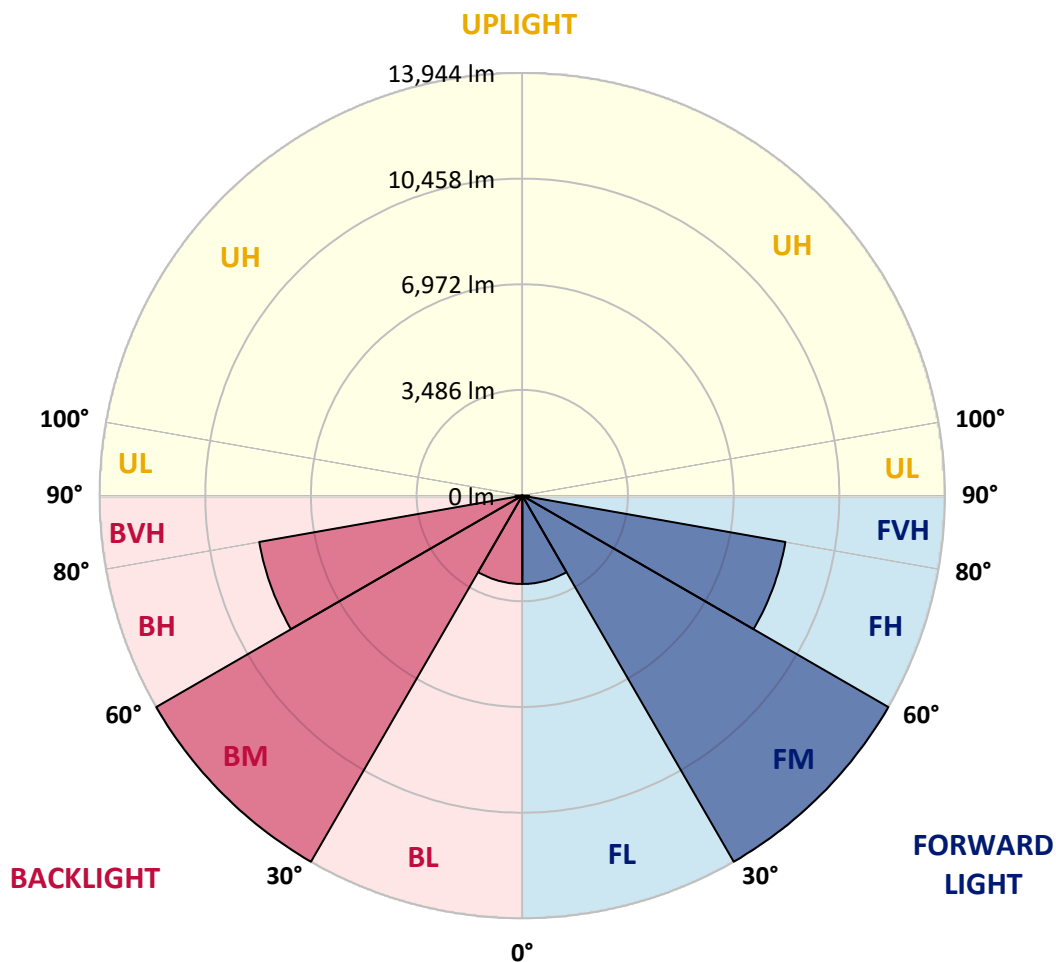
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2913.9	5.6			
FM	(30°-60°)	13943.5	26.9			
FH	(60°-80°)	8811.4	17.0			G4/12000
FVH	(80°-90°)	224.6	0.4			G2/225
BL	(0°-30°)	2913.9	5.6	B4/5000		
BM	(30°-60°)	13943.5	26.9	B5		
BH	(60°-80°)	8811.4	17.0	B5		G5
BVH	(80°-90°)	224.6	0.4			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5424.2	5424.2	5424.2	5424.2	5424.2	5424.2	5424.2	5424.2	5424.2	5424.2	5424.2
2.5°	5396.5	5402.0	5407.6	5415.9	5427.0	5443.7	5454.8	5463.1	5485.3	5488.0	5485.3
5°	5377.1	5382.6	5396.5	5421.5	5457.5	5507.5	5546.3	5593.5	5629.5	5654.5	5649.0
7.5°	5374.3	5385.4	5407.6	5460.3	5529.7	5615.7	5704.5	5784.9	5854.3	5909.8	5901.5
10°	5418.7	5432.6	5468.6	5546.3	5654.5	5779.4	5904.2	6023.5	6123.4	6195.6	6220.5
12.5°	5493.6	5504.7	5571.3	5687.8	5843.2	5998.6	6140.1	6287.1	6425.8	6547.9	6547.9
15°	5624.0	5643.4	5726.7	5895.9	6087.3	6267.7	6412.0	6567.3	6717.2	6855.9	6897.5
17.5°	5804.3	5832.1	5956.9	6173.4	6417.5	6584.0	6719.9	6847.6	6978.0	7111.2	7130.6
20°	6051.3	6079.0	6245.5	6506.3	6794.9	6994.6	7086.2	7116.7	7180.5	7308.1	7324.8
22.5°	6387.0	6414.7	6600.6	6894.7	7216.6	7433.0	7471.8	7399.7	7383.1	7482.9	7494.0
25°	6767.1	6792.1	7005.7	7322.0	7655.0	7890.8	7879.7	7702.1	7602.2	7663.3	7679.9
27.5°	7194.4	7230.5	7446.9	7774.3	8135.0	8343.1	8309.8	8051.7	7838.1	7827.0	7832.5
30°	7741.0	7779.8	7985.1	8298.7	8653.8	8845.2	8775.9	8429.1	8098.9	7987.9	7987.9
32.5°	8318.1	8415.2	8623.3	8950.7	9228.1	9366.9	9261.4	8845.2	8406.9	8251.5	8243.2
35°	9070.0	9122.7	9328.0	9647.1	9855.2	9963.4	9760.8	9314.1	8809.2	8626.1	8601.1
37.5°	9805.2	9849.6	10088.2	10393.4	10645.9	10640.4	10365.7	9871.8	9308.6	9103.3	9086.6
40°	10557.1	10604.3	10876.2	11156.4	11408.9	11386.7	11053.8	10501.6	9902.3	9672.1	9716.4
42.5°	11209.2	11261.9	11569.8	11969.4	12196.9	12191.3	11805.7	11184.2	10559.9	10354.6	10393.4
45°	11802.9	11850.1	12208.0	12665.8	12998.7	13040.4	12618.6	11961.1	11320.1	11056.6	11067.7
47.5°	12221.9	12310.6	12685.2	13209.6	13661.8	13808.9	13395.5	12751.8	12013.8	11739.1	11755.7
50°	12540.9	12596.4	13004.3	13600.8	14172.4	14477.6	14144.6	13484.3	12707.4	12416.1	12454.9
52.5°	12579.8	12646.4	13090.3	13778.4	14510.9	14974.2	14810.5	14200.1	13414.9	13115.3	13198.5
55°	12263.5	12302.3	12832.3	13667.4	14644.0	15343.2	15384.8	14866.0	14089.1	13861.6	13917.1
57.5°	11361.8	11461.6	12133.1	13148.6	14460.9	15540.2	15814.9	15470.9	14771.7	14546.9	14635.7
60°	9882.9	9982.8	10657.0	11944.4	13770.1	15448.7	16170.0	16006.3	15390.4	15210.0	15257.2
62.5°	7743.7	7735.4	8570.6	10149.3	12396.7	14999.2	16433.6	16522.4	16000.8	15773.3	15845.4
65°	5019.1	5044.1	5851.5	7552.3	10324.1	13856.1	16491.9	17180.0	16600.1	16256.0	16308.8
66°	4037.0	4111.9	4797.2	6364.8	9267.0	13106.9	16317.1	17374.2	16783.2	16367.0	16392.0
67.5°	2979.9	2966.0	3529.2	4738.9	7399.7	11683.6	15770.5	17496.3	16991.3	16466.9	16478.0
70°	1700.8	1698.0	1897.8	2602.5	4350.5	8226.5	13292.8	16910.8	17413.0	16827.6	16797.1
72.5°	1243.0	1234.7	1262.4	1437.2	2122.5	4153.5	9169.9	14780.0	17196.6	16769.3	16683.3
75°	1043.2	1037.7	1032.1	1054.3	1190.3	1881.1	4866.5	10632.0	14921.5	15740.0	15651.2
77.5°	851.8	851.8	854.6	849.0	854.6	990.5	2017.1	5698.9	9086.6	10143.7	10390.7
80°	665.9	663.1	710.3	690.9	646.5	635.4	893.4	1834.0	3015.9	2999.3	2474.9
82.5°	491.1	457.8	541.0	527.2	477.2	405.1	521.6	782.4	1007.2	654.8	485.5
85°	310.7	308.0	382.9	349.6	291.3	191.4	249.7	335.7	416.2	252.5	205.3
87.5°	55.5	52.7	122.1	88.8	88.8	55.5	69.4	91.6	136.0	94.3	69.4
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)