

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: P459185

Luminaire Tested: **GALN-SA6D-735-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459185
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-SA6D-735-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 44089 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

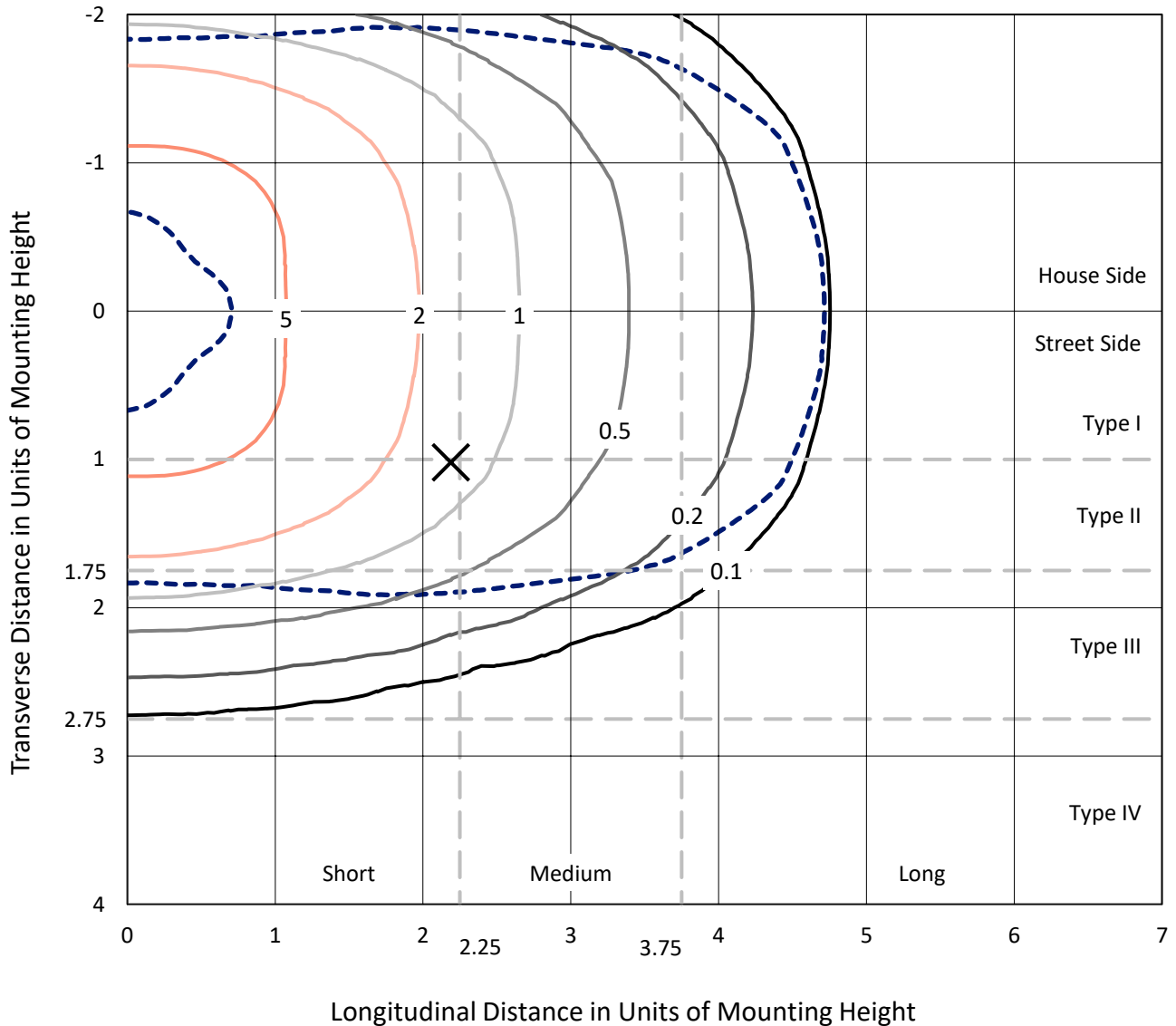
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

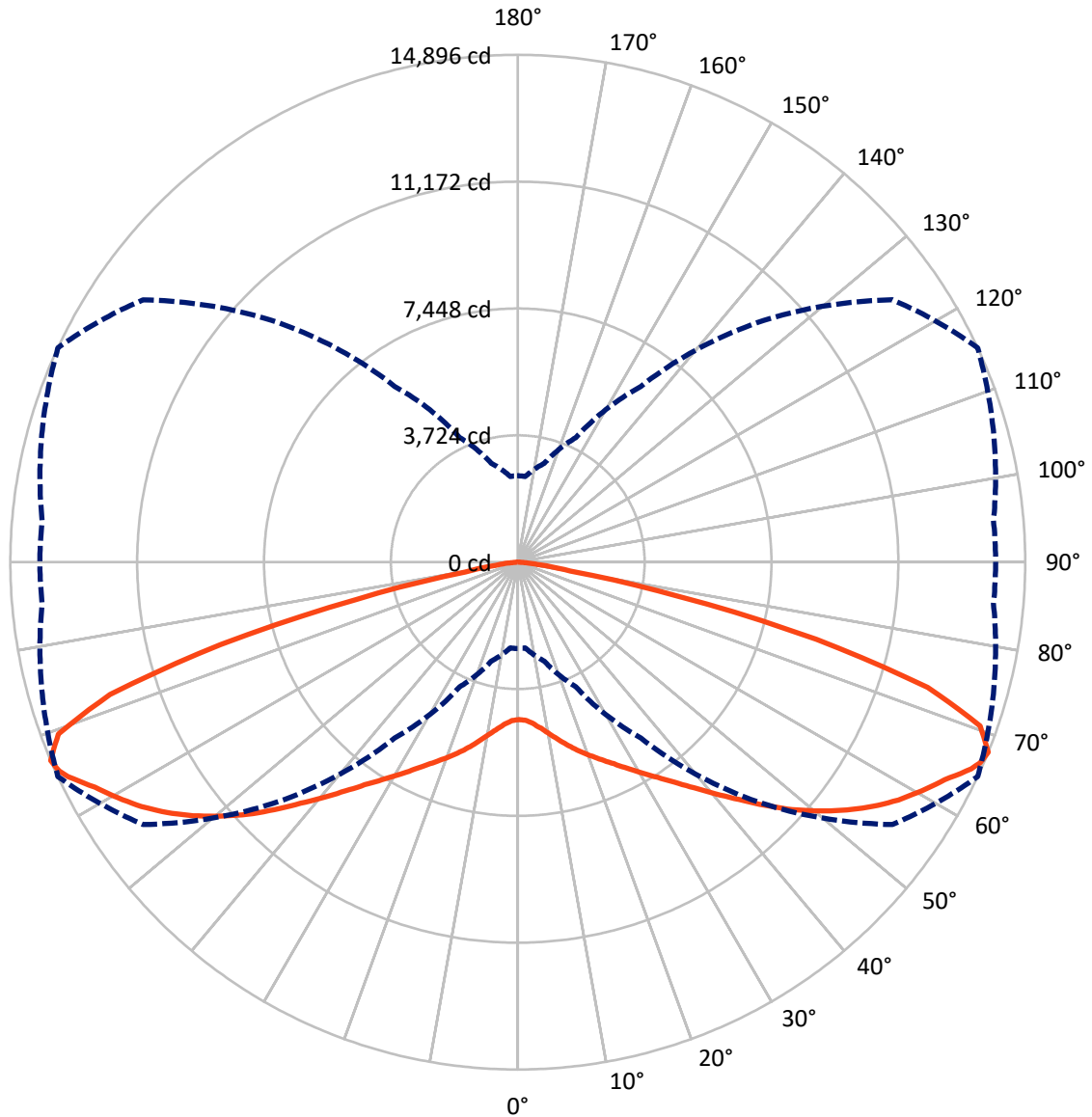
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	22044.5	0.0	22044.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22044.5	0.0	22044.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	44089.0	0.0	44089.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.5	1.0
10°-20°	1524.4	3.5
20°-30°	2981.8	6.8
30°-40°	5071.6	11.5
40°-50°	8026.8	18.2
50°-60°	10643.3	24.1
60°-70°	10040.0	22.8
70°-80°	4963.3	11.3
80°-90°	382.5	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°	44089.0	100.0
0°-180°	44089.0	100.0

Coefficient of Utilization



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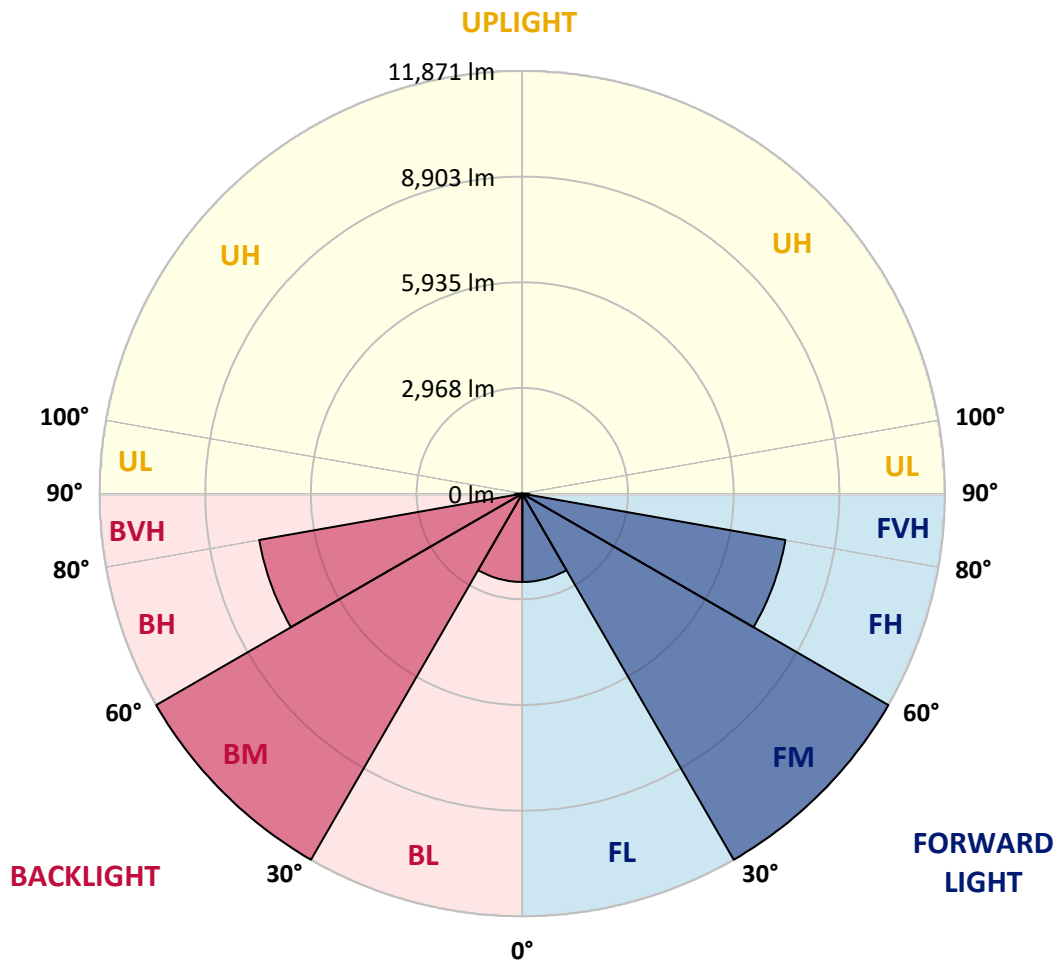
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2480.8	5.6			
FM (30°-60°)	11870.9	26.9			
FH (60°-80°)	7501.6	17.0			G4/12000
FVH (80°-90°)	191.3	0.4			G2/225
BL (0°-30°)	2480.8	5.6	B3/2500		
BM (30°-60°)	11870.9	26.9	B5		
BH (60°-80°)	7501.6	17.0	B5		G5
BVH (80°-90°)	191.3	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°	4617.9	4617.9	4617.9	4617.9	4617.9	4617.9	4617.9	4617.9	4617.9	4617.9	4617.9
2.5°	4594.3	4599.0	4603.8	4610.8	4620.3	4634.5	4643.9	4651.0	4669.9	4672.3	4669.9
5°	4577.8	4582.5	4594.3	4615.6	4646.3	4688.8	4721.9	4762.0	4792.7	4814.0	4809.3
7.5°	4575.4	4584.9	4603.8	4648.6	4707.7	4780.9	4856.5	4925.0	4984.1	5031.3	5024.2
10°	4613.2	4625.0	4655.7	4721.9	4814.0	4920.3	5026.6	5128.2	5213.2	5274.6	5295.9
12.5°	4677.0	4686.4	4743.1	4842.3	4974.6	5106.9	5227.4	5352.6	5470.7	5574.6	5574.6
15°	4788.0	4804.5	4875.4	5019.5	5182.5	5336.0	5458.8	5591.1	5718.7	5836.8	5872.2
17.5°	4941.5	4965.2	5071.5	5255.7	5463.6	5605.3	5721.0	5829.7	5940.7	6054.1	6070.6
20°	5151.8	5175.4	5317.1	5539.2	5784.8	5954.9	6032.8	6058.8	6113.2	6221.8	6236.0
22.5°	5437.6	5461.2	5619.5	5869.9	6143.9	6328.1	6361.2	6299.8	6285.6	6370.6	6380.1
25°	5761.2	5782.5	5964.3	6233.6	6517.1	6717.9	6708.4	6557.2	6472.2	6524.2	6538.3
27.5°	6125.0	6155.7	6339.9	6618.6	6925.7	7102.9	7074.5	6854.9	6673.0	6663.5	6668.2
30°	6590.3	6623.4	6798.2	7065.1	7367.4	7530.4	7471.4	7176.1	6895.0	6800.5	6800.5
32.5°	7081.6	7164.3	7341.5	7620.2	7856.4	7974.5	7884.7	7530.4	7157.2	7024.9	7017.8
35°	7721.8	7766.6	7941.4	8213.1	8390.2	8482.4	8309.9	7929.6	7499.7	7343.8	7322.6
37.5°	8347.7	8385.5	8588.6	8848.5	9063.4	9058.7	8824.9	8404.4	7924.9	7750.1	7735.9
40°	8987.8	9028.0	9259.5	9498.1	9713.0	9694.1	9410.7	8940.6	8430.4	8234.3	8272.1
42.5°	9542.9	9587.8	9850.0	10190.2	10383.9	10379.1	10050.8	9521.7	8990.2	8815.4	8848.5
45°	10048.4	10088.6	10393.3	10783.1	11066.5	11101.9	10742.9	10183.1	9637.4	9413.0	9422.5
47.5°	10405.1	10480.7	10799.6	11246.0	11631.1	11756.2	11404.3	10856.3	10228.0	9994.1	10008.3
50°	10676.8	10724.0	11071.2	11579.1	12065.7	12325.5	12042.1	11479.9	10818.5	10570.5	10603.5
52.5°	10709.8	10766.5	11144.5	11730.3	12353.9	12748.3	12609.0	12089.3	11420.8	11165.7	11236.6
55°	10440.5	10473.6	10924.8	11635.8	12467.2	13062.5	13097.9	12656.2	11994.8	11801.1	11848.4
57.5°	9672.9	9757.9	10329.5	11194.1	12311.3	13230.2	13464.1	13171.2	12575.9	12384.6	12460.2
60°	8413.9	8498.9	9072.9	10168.9	11723.2	13152.3	13766.4	13627.0	13102.6	12949.1	12989.3
62.5°	6592.7	6585.6	7296.6	8640.6	10553.9	12769.6	13990.8	14066.4	13622.3	13428.6	13490.0
65°	4273.1	4294.3	4981.7	6429.7	8789.4	11796.4	14040.4	14626.2	14132.5	13839.6	13884.5
66°	3436.9	3500.7	4084.1	5418.7	7889.5	11158.6	13891.6	14791.6	14288.4	13934.1	13955.4
67.5°	2536.9	2525.1	3004.6	4034.5	6299.8	9946.9	13426.3	14895.5	14465.6	14019.1	14028.6
70°	1448.0	1445.6	1615.7	2215.7	3703.8	7003.7	11316.9	14397.1	14824.6	14326.2	14300.2
72.5°	1058.2	1051.1	1074.8	1223.6	1807.0	3536.1	7806.8	12583.0	14640.4	14276.6	14203.4
75°	888.2	883.4	878.7	897.6	1013.3	1601.5	4143.1	9051.6	12703.5	13400.3	13324.7
77.5°	725.2	725.2	727.5	722.8	727.5	843.3	1717.3	4851.8	7735.9	8635.9	8846.1
80°	566.9	564.5	604.7	588.2	550.4	540.9	760.6	1561.4	2567.6	2553.4	2107.0
82.5°	418.1	389.7	460.6	448.8	406.3	344.9	444.1	666.1	857.4	557.5	413.4
85°	264.6	262.2	326.0	297.6	248.0	163.0	212.6	285.8	354.3	215.0	174.8
87.5°	47.2	44.9	103.9	75.6	75.6	47.2	59.1	77.9	115.7	80.3	59.1
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)