

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: P459359

Luminaire Tested: **GALN-SA8B-735-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459359
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-SA8B-735-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44161 lumens
Efficiency: N/A
Efficacy: 135.9 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

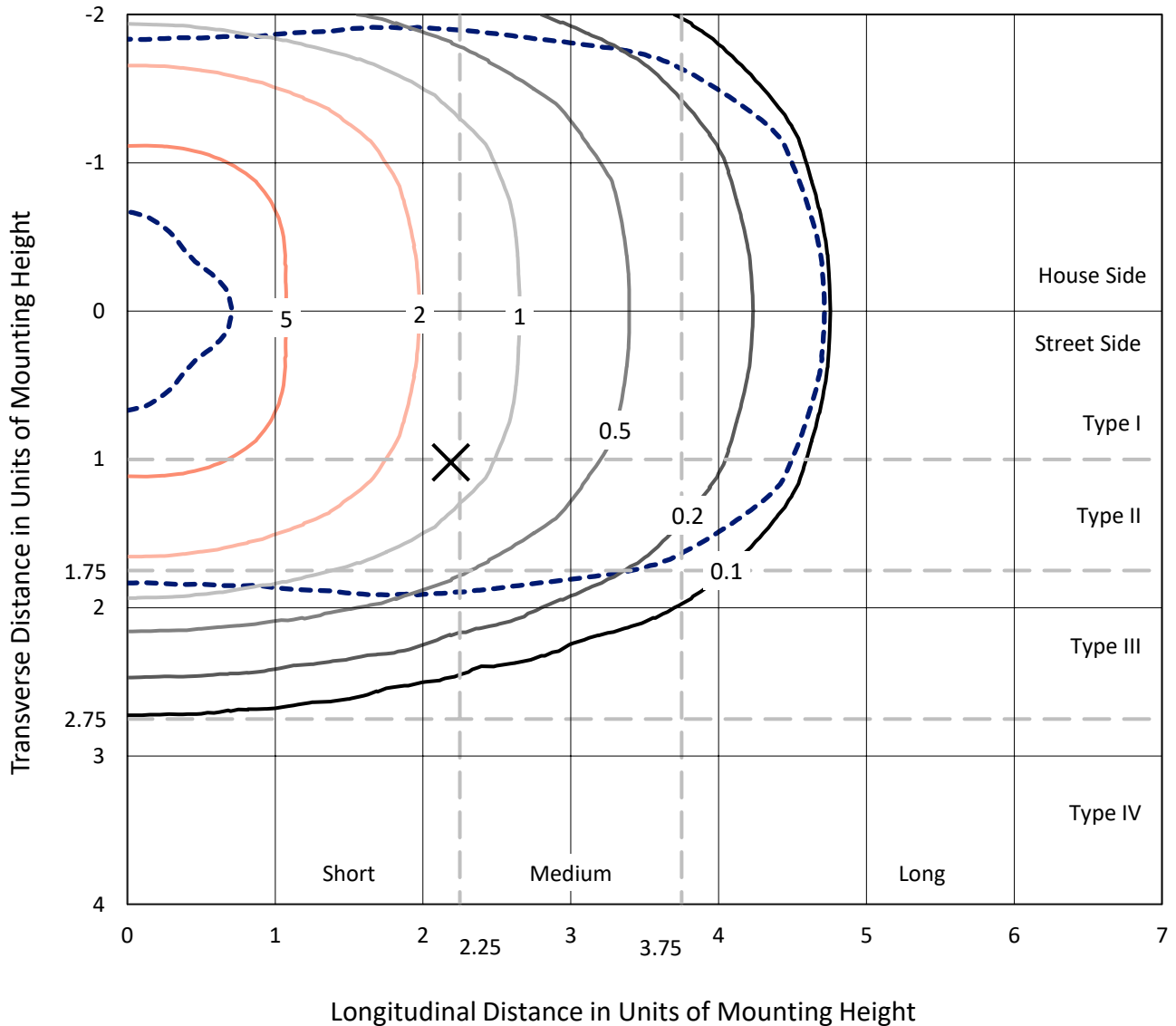
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

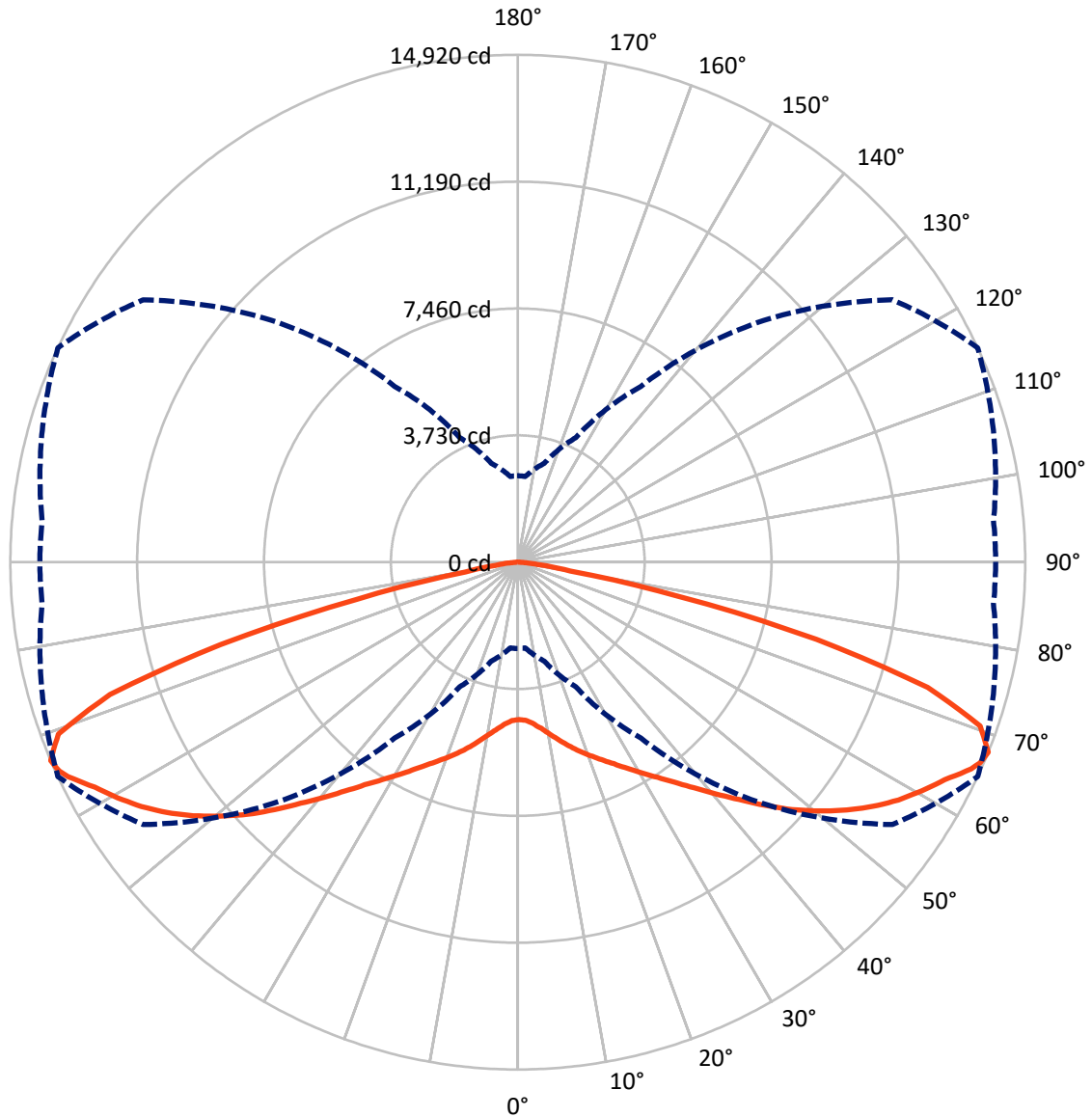
× Max cd
 - - - 1/2 Max cd



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	22080.5	0.0	22080.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22080.5	0.0	22080.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	44161.0	0.0	44161.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.2	1.0
10°-20°	1526.9	3.5
20°-30°	2986.6	6.8
30°-40°	5079.9	11.5
40°-50°	8039.9	18.2
50°-60°	10660.7	24.1
60°-70°	10056.4	22.8
70°-80°	4971.4	11.3
80°-90°	383.1	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°	44161.0	100.0
0°-180°	44161.0	100.0

Coefficient of Utilization



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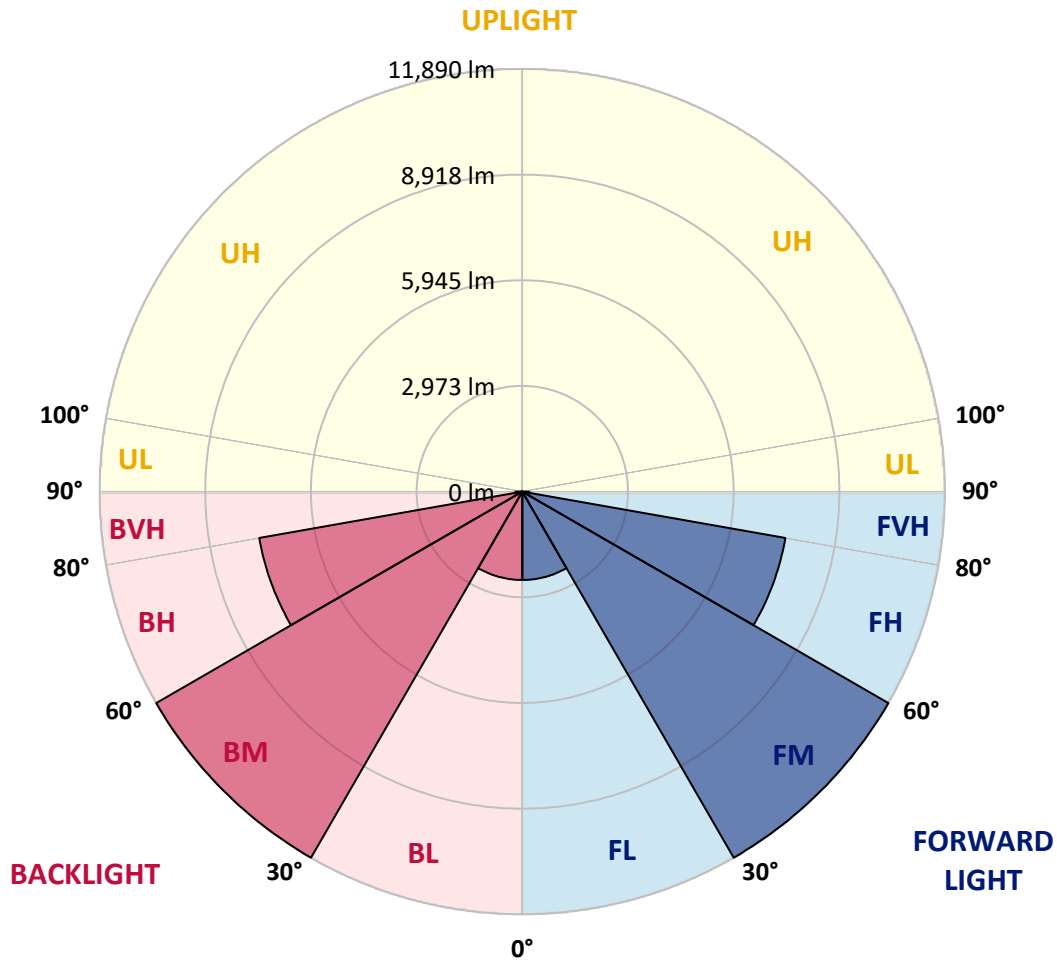
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2484.8	5.6			
FM (30°-60°)	11890.2	26.9			
FH (60°-80°)	7513.9	17.0			G4/12000
FVH (80°-90°)	191.6	0.4			G2/225
BL (0°-30°)	2484.8	5.6	B3/2500		
BM (30°-60°)	11890.2	26.9	B5		
BH (60°-80°)	7513.9	17.0	B5		G5
BVH (80°-90°)	191.6	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°	4625.5	4625.5	4625.5	4625.5	4625.5	4625.5	4625.5	4625.5	4625.5	4625.5	4625.5
2.5°	4601.8	4606.5	4611.3	4618.4	4627.8	4642.0	4651.5	4658.6	4677.5	4679.9	4677.5
5°	4585.3	4590.0	4601.8	4623.1	4653.9	4696.5	4729.6	4769.8	4800.6	4821.9	4817.1
7.5°	4582.9	4592.4	4611.3	4656.2	4715.4	4788.7	4864.4	4933.1	4992.2	5039.5	5032.4
10°	4620.7	4632.6	4663.3	4729.6	4821.9	4928.3	5034.8	5136.5	5221.7	5283.2	5304.5
12.5°	4684.6	4694.1	4750.9	4850.2	4982.7	5115.2	5235.9	5361.3	5479.6	5583.7	5583.7
15°	4795.8	4812.4	4883.4	5027.7	5190.9	5344.7	5467.8	5600.3	5728.0	5846.3	5881.8
17.5°	4949.6	4973.3	5079.7	5264.3	5472.5	5614.5	5730.4	5839.2	5950.4	6064.0	6080.5
20°	5160.2	5183.8	5325.8	5548.2	5794.3	5964.6	6042.7	6068.7	6123.1	6232.0	6246.2
22.5°	5446.5	5470.1	5628.6	5879.4	6153.9	6338.4	6371.6	6310.0	6295.9	6381.0	6390.5
25°	5770.6	5791.9	5974.1	6243.8	6527.7	6728.8	6719.4	6567.9	6482.8	6534.8	6549.0
27.5°	6135.0	6165.7	6350.3	6629.5	6937.0	7114.5	7086.1	6866.1	6683.9	6674.4	6679.1
30°	6601.1	6634.2	6809.3	7076.6	7379.5	7542.7	7483.6	7187.8	6906.3	6811.6	6811.6
32.5°	7093.2	7176.0	7353.4	7632.6	7869.2	7987.5	7897.6	7542.7	7168.9	7036.4	7029.3
35°	7734.4	7779.3	7954.4	8226.5	8403.9	8496.2	8323.5	7942.6	7512.0	7355.8	7334.5
37.5°	8361.3	8399.2	8602.7	8862.9	9078.2	9073.5	8839.3	8418.1	7937.8	7762.8	7748.6
40°	9002.5	9042.7	9274.6	9513.6	9728.9	9709.9	9426.0	8955.2	8444.2	8247.8	8285.6
42.5°	9558.5	9603.5	9866.1	10206.8	10400.8	10396.1	10067.2	9537.2	9004.9	8829.8	8862.9
45°	10064.8	10105.1	10410.3	10800.7	11084.6	11120.1	10760.4	10199.7	9653.2	9428.4	9437.9
47.5°	10422.1	10497.8	10817.2	11264.4	11650.0	11775.4	11422.9	10874.0	10244.7	10010.4	10024.6
50°	10694.2	10741.5	11089.3	11598.0	12085.4	12345.6	12061.7	11498.6	10836.2	10587.7	10620.8
52.5°	10727.3	10784.1	11162.7	11749.4	12374.0	12769.2	12629.6	12109.0	11439.5	11183.9	11254.9
55°	10457.6	10490.7	10942.6	11654.8	12487.6	13083.8	13119.3	12676.9	12014.4	11820.4	11867.7
57.5°	9688.7	9773.8	10346.4	11212.3	12331.4	13251.8	13486.0	13192.7	12596.4	12404.8	12480.5
60°	8427.6	8512.8	9087.7	10185.5	11742.3	13173.7	13788.9	13649.3	13124.0	12970.3	13010.5
62.5°	6603.4	6596.3	7308.5	8654.7	10571.2	12790.4	14013.7	14089.4	13644.6	13450.6	13512.1
65°	4280.0	4301.3	4989.8	6440.2	8803.8	11815.7	14063.3	14650.1	14155.6	13862.2	13907.2
66°	3442.5	3506.4	4090.8	5427.5	7902.3	11176.9	13914.3	14815.7	14311.8	13956.9	13978.2
67.5°	2541.1	2529.2	3009.5	4041.1	6310.0	9963.1	13448.2	14919.8	14489.2	14042.0	14051.5
70°	1450.3	1448.0	1618.3	2219.3	3709.8	7015.1	11335.4	14420.6	14848.8	14349.6	14323.6
72.5°	1060.0	1052.9	1076.5	1225.6	1810.0	3541.9	7819.5	12603.5	14664.3	14299.9	14226.6
75°	889.6	884.9	880.1	899.1	1015.0	1604.1	4149.9	9066.4	12724.2	13422.2	13346.4
77.5°	726.4	726.4	728.7	724.0	728.7	844.7	1720.1	4859.7	7748.6	8650.0	8860.6
80°	567.8	565.5	605.7	589.1	551.3	541.8	761.8	1563.9	2571.8	2557.6	2110.4
82.5°	418.8	390.4	461.4	449.5	406.9	345.4	444.8	667.2	858.8	558.4	414.0
85°	265.0	262.6	326.5	298.1	248.4	163.3	212.9	286.3	354.9	215.3	175.1
87.5°	47.3	45.0	104.1	75.7	75.7	47.3	59.1	78.1	115.9	80.4	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)