

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: P459330

Luminaire Tested: **GALN-SA8A-735-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459330
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-SA8A-735-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35492 lumens
Efficiency: N/A
Efficacy: 145.5 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

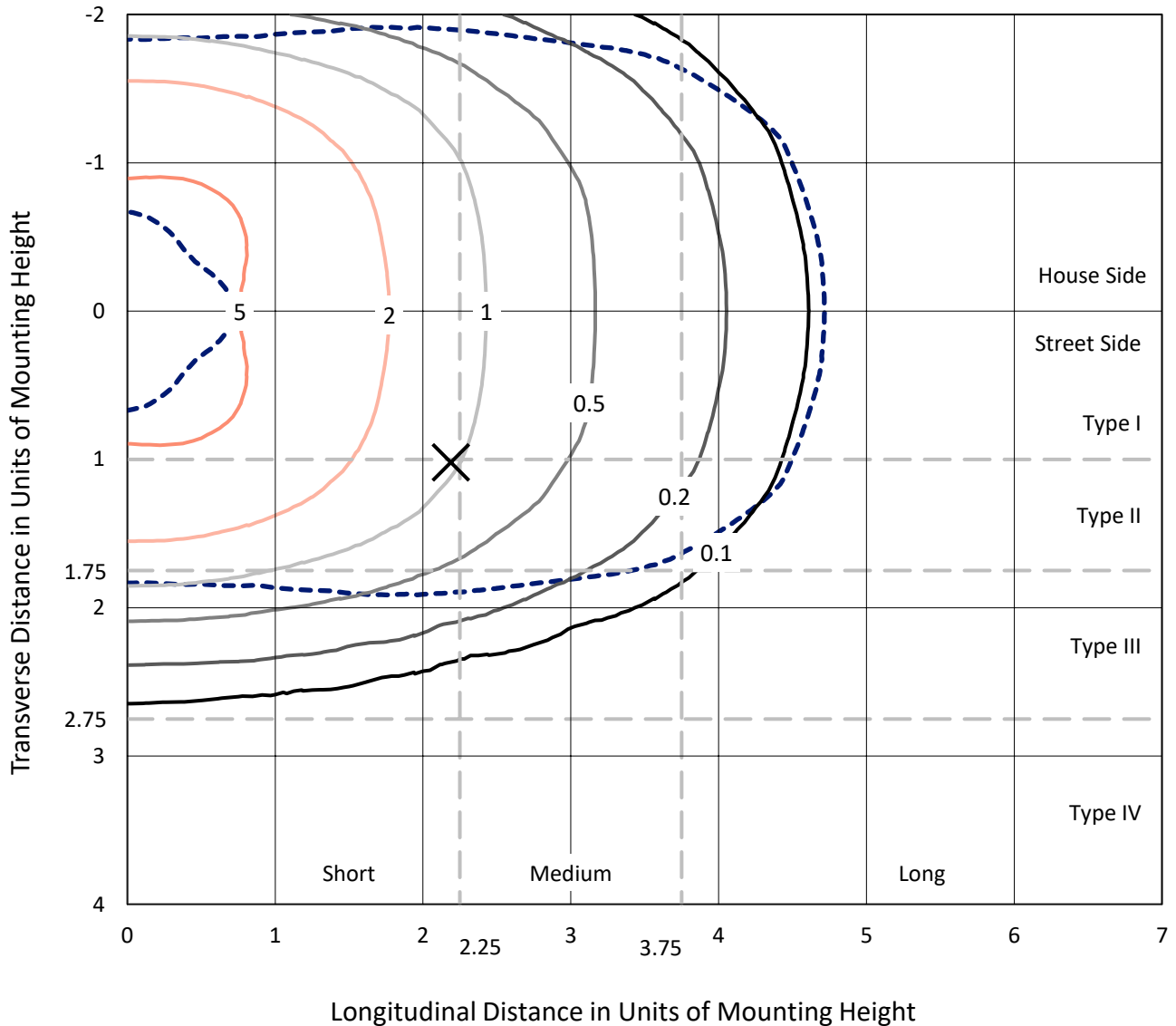
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459330
 CATALOG NUMBER: GALN-SA8A-735-U-RW

Iso-Footcandle Lines of Horizontal Illumination

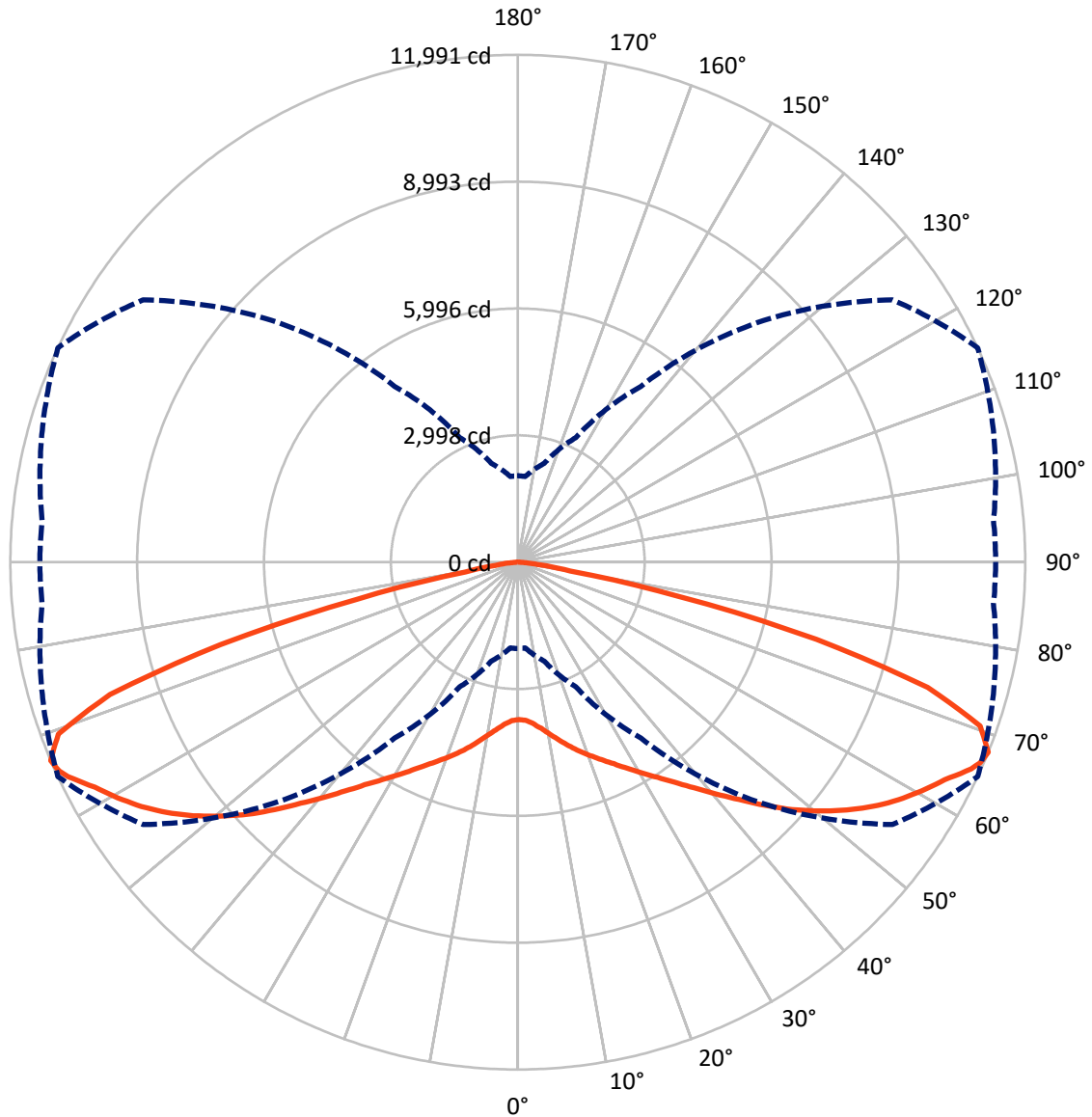
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - N/A

REPORT NUMBER: P459330
CATALOG NUMBER: GALN-SA8A-735-U-RW

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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CATALOG NUMBER: GALN-SA8A-735-U-RW

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17746.0	0.0	17746.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17746.0	0.0	17746.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	35492.0	0.0	35492.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.6	1.0
10°-20°	1227.1	3.5
20°-30°	2400.3	6.8
30°-40°	4082.7	11.5
40°-50°	6461.6	18.2
50°-60°	8568.0	24.1
60°-70°	8082.2	22.8
70°-80°	3995.5	11.3
80°-90°	307.9	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°	35492.0	100.0
0°-180°	35492.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459330

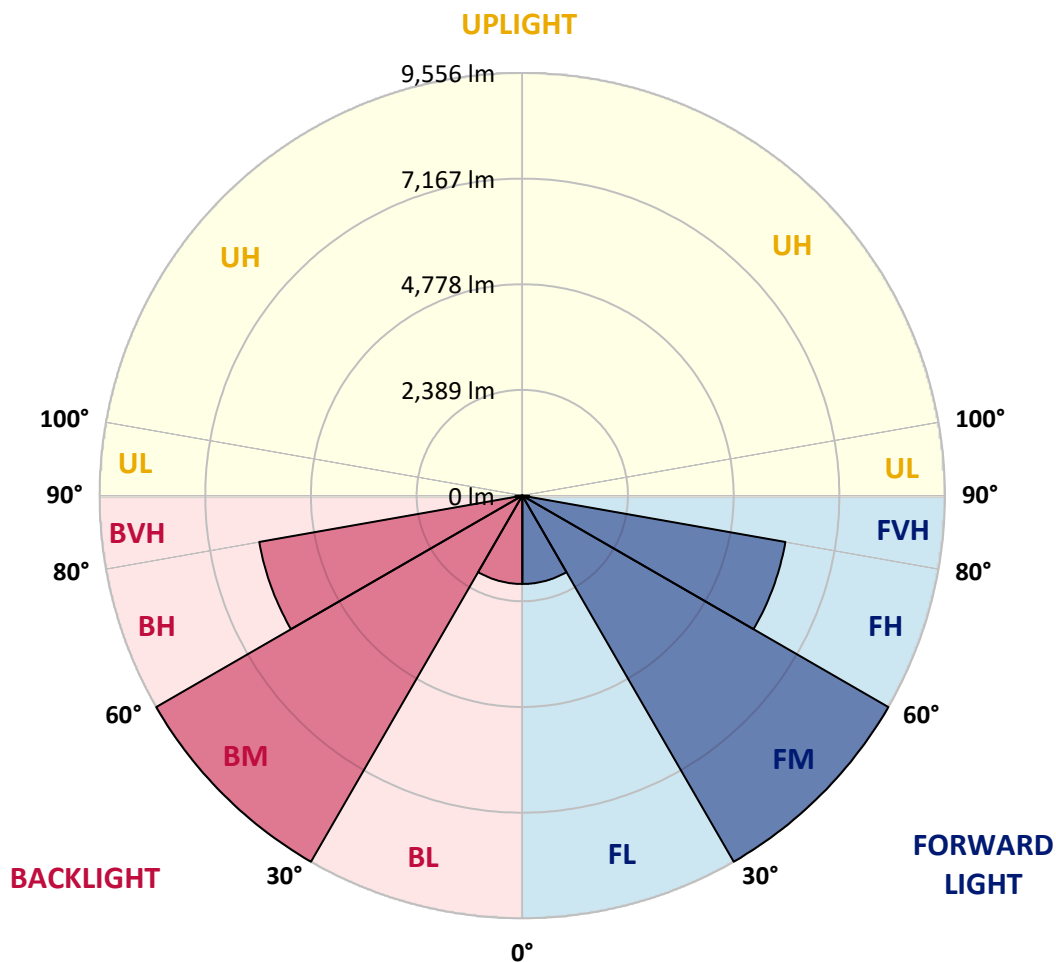
CATALOG NUMBER: GALN-SA8A-735-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1997.1	5.6			
FM (30°-60°)	9556.1	26.9			
FH (60°-80°)	6038.9	17.0			G3/7500
FVH (80°-90°)	154.0	0.4			G2/225
BL (0°-30°)	1997.1	5.6	B3/2500		
BM (30°-60°)	9556.1	26.9	B5		
BH (60°-80°)	6038.9	17.0	B5		G5
BVH (80°-90°)	154.0	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





REPORT NUMBER: P459330

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3717.5	3717.5	3717.5	3717.5	3717.5	3717.5	3717.5	3717.5	3717.5	3717.5	3717.5
2.5°	3698.5	3702.3	3706.1	3711.8	3719.4	3730.8	3738.4	3744.1	3759.3	3761.2	3759.3
5°	3685.1	3689.0	3698.5	3715.6	3740.3	3774.5	3801.1	3833.5	3858.2	3875.3	3871.5
7.5°	3683.2	3690.9	3706.1	3742.2	3789.7	3848.7	3909.5	3964.7	4012.2	4050.2	4044.5
10°	3713.7	3723.2	3747.9	3801.1	3875.3	3960.9	4046.4	4128.2	4196.7	4246.1	4263.2
12.5°	3765.0	3772.6	3818.3	3898.1	4004.6	4111.1	4208.1	4308.8	4403.9	4487.6	4487.6
15°	3854.4	3867.7	3924.7	4040.7	4171.9	4295.5	4394.4	4500.9	4603.6	4698.7	4727.2
17.5°	3978.0	3997.0	4082.6	4230.9	4398.2	4512.3	4605.5	4693.0	4782.3	4873.6	4886.9
20°	4147.2	4166.2	4280.3	4459.1	4656.8	4793.7	4856.5	4877.4	4921.1	5008.6	5020.0
22.5°	4377.3	4396.3	4523.7	4725.3	4945.9	5094.2	5120.8	5071.4	5059.9	5128.4	5136.0
25°	4637.8	4654.9	4801.3	5018.1	5246.3	5407.9	5400.3	5278.6	5210.2	5252.0	5263.4
27.5°	4930.6	4955.4	5103.7	5328.1	5575.3	5717.9	5695.1	5518.2	5371.8	5364.2	5368.0
30°	5305.2	5331.9	5472.6	5687.4	5930.8	6062.0	6014.5	5776.8	5550.5	5474.5	5474.5
32.5°	5700.8	5767.3	5909.9	6134.3	6324.5	6419.5	6347.3	6062.0	5761.6	5655.1	5649.4
35°	6216.1	6252.2	6392.9	6611.6	6754.2	6828.4	6689.6	6383.4	6037.3	5911.8	5894.7
37.5°	6720.0	6750.4	6913.9	7123.1	7296.1	7292.3	7104.1	6765.6	6379.6	6238.9	6227.5
40°	7235.3	7267.6	7454.0	7646.0	7819.1	7803.8	7575.7	7197.3	6786.5	6628.7	6659.1
42.5°	7682.1	7718.3	7929.3	8203.2	8359.1	8355.3	8091.0	7665.0	7237.2	7096.5	7123.1
45°	8089.1	8121.4	8366.7	8680.4	8908.6	8937.1	8648.1	8197.5	7758.2	7577.6	7585.2
47.5°	8376.2	8437.0	8693.8	9053.1	9363.1	9463.9	9180.5	8739.4	8233.6	8045.3	8056.7
50°	8594.9	8632.9	8912.4	9321.3	9713.0	9922.1	9694.0	9241.4	8709.0	8509.3	8535.9
52.5°	8621.5	8667.1	8971.4	9443.0	9945.0	10262.5	10150.3	9732.0	9193.9	8988.5	9045.5
55°	8404.7	8431.3	8794.5	9366.9	10036.2	10515.4	10543.9	10188.4	9655.9	9500.0	9538.0
57.5°	7786.7	7855.2	8315.4	9011.3	9910.7	10650.4	10838.7	10602.9	10123.7	9969.7	10030.5
60°	6773.2	6841.7	7303.7	8186.0	9437.2	10587.7	11082.1	10969.9	10547.7	10424.1	10456.5
62.5°	5307.1	5301.4	5873.8	6955.8	8496.0	10279.6	11262.7	11323.6	10966.1	10810.1	10859.6
65°	3439.9	3457.0	4010.3	5175.9	7075.6	9496.2	11302.6	11774.2	11376.8	11141.0	11177.1
66°	2766.7	2818.1	3287.7	4362.1	6351.1	8982.8	11182.8	11907.3	11502.3	11217.1	11234.2
67.5°	2042.2	2032.7	2418.7	3247.8	5071.4	8007.3	10808.2	11991.0	11644.9	11285.5	11293.1
70°	1165.6	1163.7	1300.6	1783.6	2981.6	5638.0	9110.2	11589.8	11933.9	11532.7	11511.8
72.5°	851.9	846.2	865.2	985.0	1454.7	2846.6	6284.5	10129.4	11785.6	11492.8	11433.8
75°	715.0	711.2	707.4	722.6	815.8	1289.2	3335.3	7286.6	10226.4	10787.3	10726.5
77.5°	583.8	583.8	585.7	581.9	585.7	678.8	1382.4	3905.7	6227.5	6952.0	7121.2
80°	456.4	454.5	486.8	473.5	443.1	435.4	612.3	1256.9	2067.0	2055.5	1696.2
82.5°	336.6	313.8	370.8	361.3	327.1	277.6	357.5	536.2	690.3	448.8	332.8
85°	213.0	211.1	262.4	239.6	199.7	131.2	171.1	230.1	285.2	173.0	140.7
87.5°	38.0	36.1	83.7	60.8	60.8	38.0	47.5	62.8	93.2	64.7	47.5
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)