

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: P456952

Luminaire Tested: **GALN-SA8B-730-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456952
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-730-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43174 lumens
Efficiency: N/A
Efficacy: 132.8 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

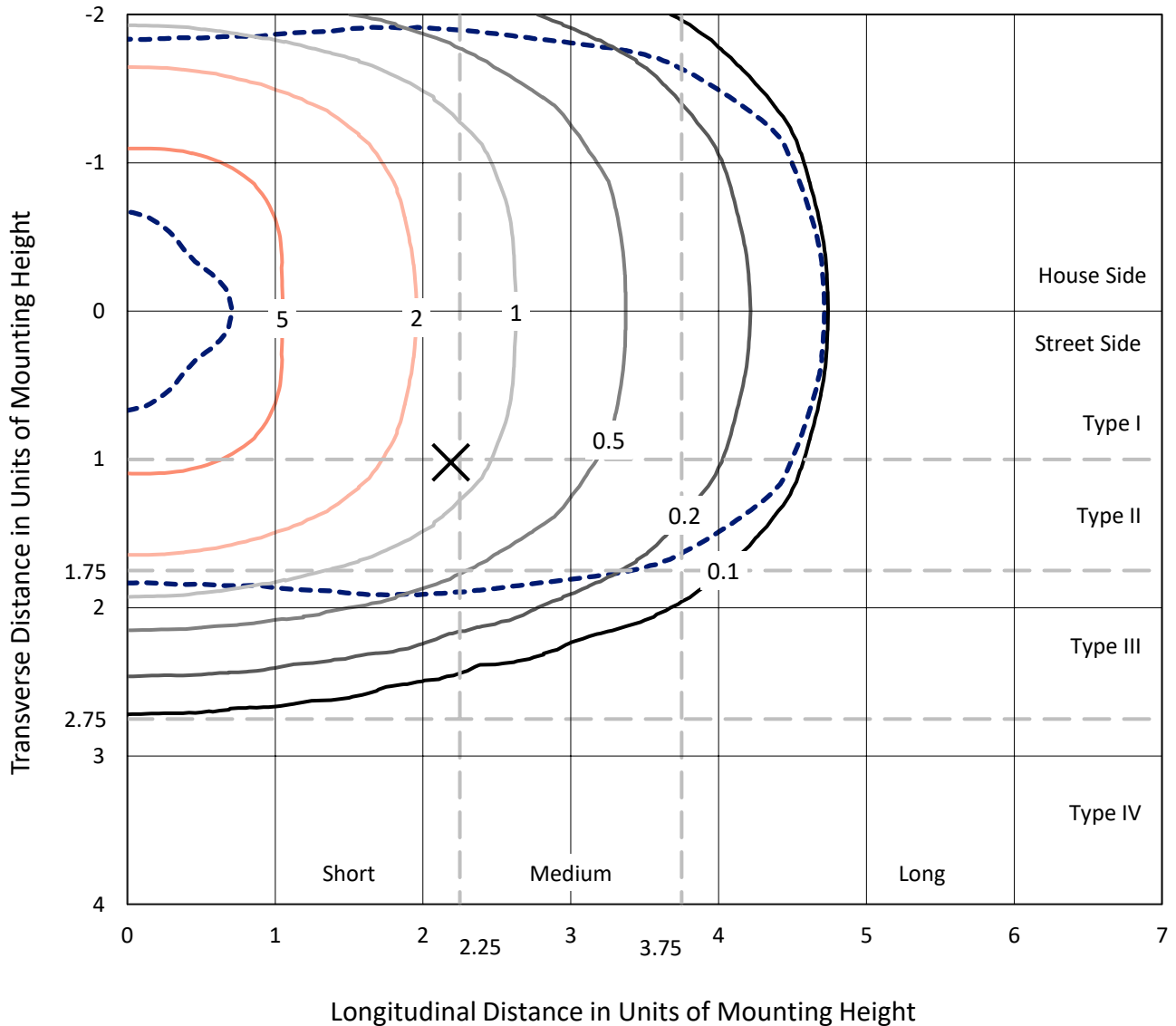
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

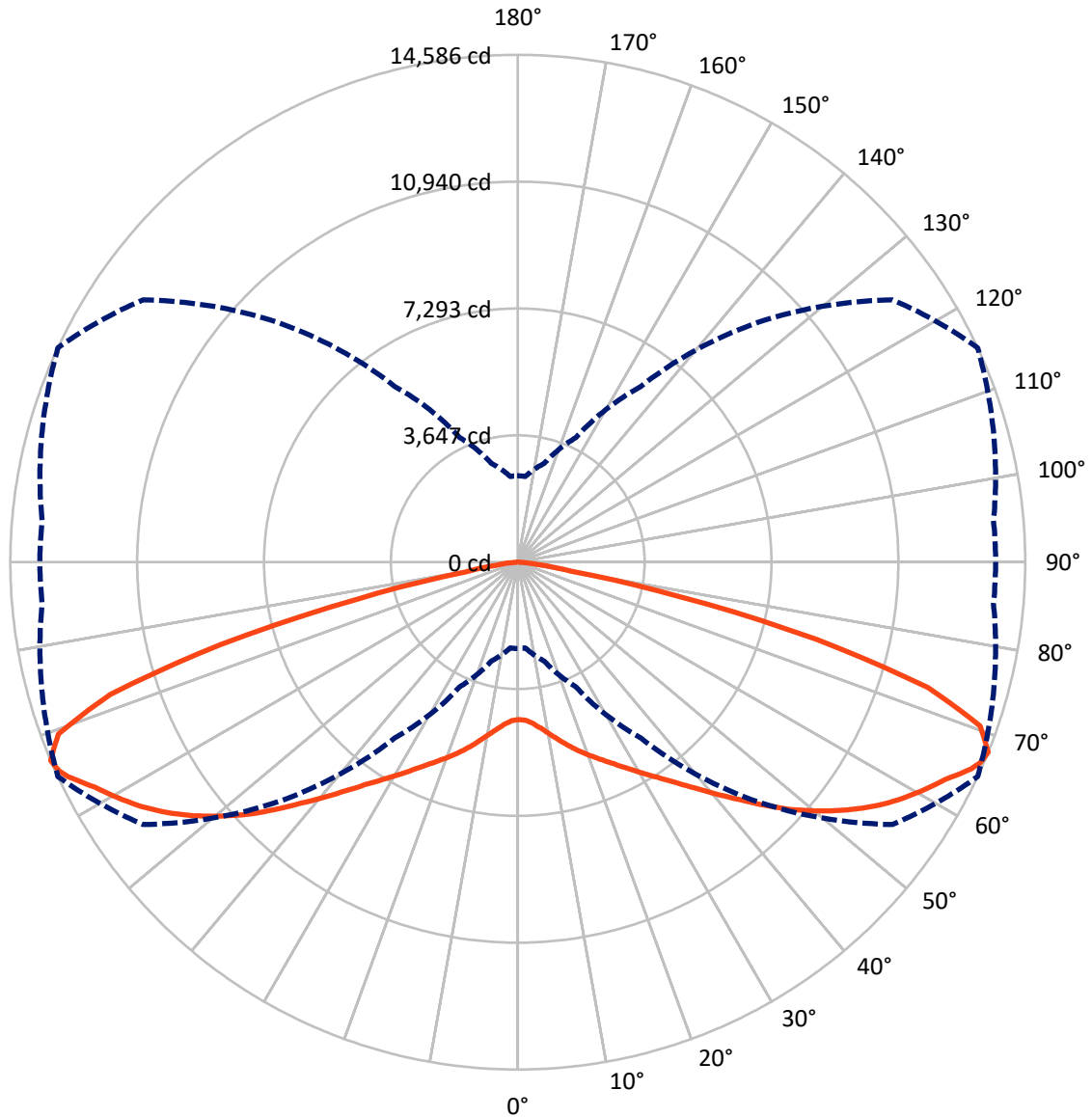
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Short - N/A

REPORT NUMBER: P456952
CATALOG NUMBER: GALN-SA8B-730-U-RW

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	21587.0	0.0	21587.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21587.0	0.0	21587.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	43174.0	0.0	43174.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.0	1.0
10°-20°	1492.7	3.5
20°-30°	2919.9	6.8
30°-40°	4966.3	11.5
40°-50°	7860.2	18.2
50°-60°	10422.5	24.1
60°-70°	9831.6	22.8
70°-80°	4860.3	11.3
80°-90°	374.6	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°	43174.0	100.0
0°-180°	43174.0	100.0



REPORT NUMBER: P456952

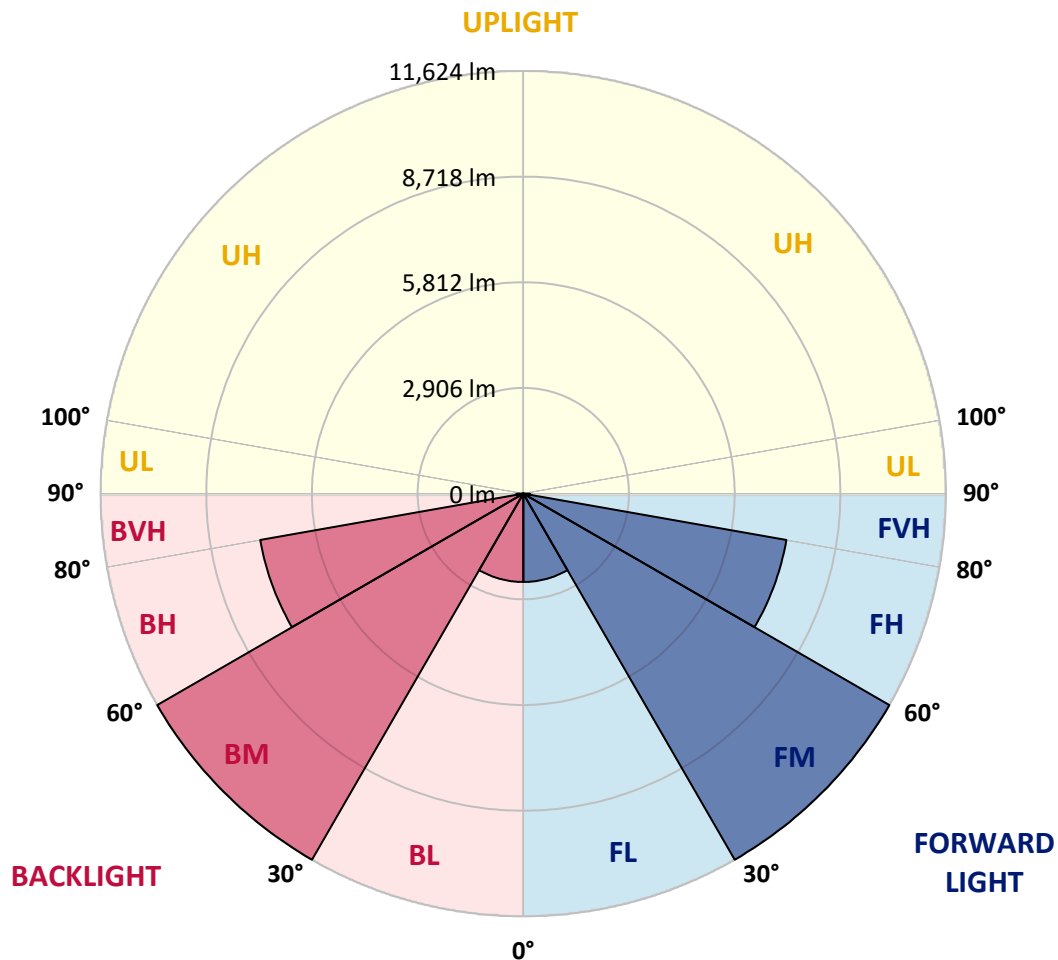
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2429.3	5.6			
FM	(30°-60°)	11624.5	26.9			
FH	(60°-80°)	7345.9	17.0			G3/7500
FVH	(80°-90°)	187.3	0.4			G2/225
BL	(0°-30°)	2429.3	5.6	B3/2500		
BM	(30°-60°)	11624.5	26.9	B5		
BH	(60°-80°)	7345.9	17.0	B5		G5
BVH	(80°-90°)	187.3	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°	4522.1	4522.1	4522.1	4522.1	4522.1	4522.1	4522.1	4522.1	4522.1	4522.1	4522.1
2.5°	4499.0	4503.6	4508.2	4515.2	4524.4	4538.3	4547.5	4554.5	4573.0	4575.3	4573.0
5°	4482.8	4487.4	4499.0	4519.8	4549.9	4591.5	4623.9	4663.2	4693.3	4714.1	4709.5
7.5°	4480.5	4489.7	4508.2	4552.2	4610.0	4681.7	4755.7	4822.8	4880.6	4926.9	4919.9
10°	4517.5	4529.0	4559.1	4623.9	4714.1	4818.2	4922.3	5021.7	5105.0	5165.1	5186.0
12.5°	4579.9	4589.2	4644.7	4741.8	4871.4	5000.9	5118.9	5241.5	5357.1	5458.9	5458.9
15°	4688.6	4704.8	4774.2	4915.3	5074.9	5225.3	5345.6	5475.1	5600.0	5715.7	5750.3
17.5°	4839.0	4862.1	4966.2	5146.6	5350.2	5489.0	5602.3	5708.7	5817.4	5928.5	5944.6
20°	5044.9	5068.0	5206.8	5424.2	5664.8	5831.3	5907.6	5933.1	5986.3	6092.7	6106.6
22.5°	5324.7	5347.9	5502.8	5748.0	6016.4	6196.8	6229.2	6169.0	6155.1	6238.4	6247.7
25°	5641.6	5662.5	5840.6	6104.3	6381.8	6578.4	6569.2	6421.1	6337.9	6388.8	6402.6
27.5°	5997.8	6027.9	6208.3	6481.3	6782.0	6955.5	6927.7	6712.6	6534.5	6525.2	6529.9
30°	6453.5	6485.9	6657.1	6918.5	7214.5	7374.1	7316.3	7027.2	6751.9	6659.4	6659.4
32.5°	6934.7	7015.6	7189.1	7462.0	7693.3	7809.0	7721.1	7374.1	7008.7	6879.1	6872.2
35°	7561.5	7605.4	7776.6	8042.6	8216.1	8306.3	8137.5	7765.1	7344.1	7191.4	7170.6
37.5°	8174.5	8211.5	8410.4	8664.8	8875.3	8870.7	8641.7	8230.0	7760.4	7589.3	7575.4
40°	8801.3	8840.6	9067.3	9300.9	9511.4	9492.9	9215.4	8755.1	8255.4	8063.4	8100.4
42.5°	9344.9	9388.8	9645.6	9978.7	10168.4	10163.7	9842.2	9324.1	8803.6	8632.5	8664.8
45°	9839.9	9879.2	10177.6	10559.3	10836.8	10871.5	10519.9	9971.7	9437.4	9217.7	9226.9
47.5°	10189.2	10263.2	10575.5	11012.6	11389.7	11512.3	11167.6	10631.0	10015.7	9786.7	9800.6
50°	10455.2	10501.4	10841.5	11338.8	11815.3	12069.7	11792.1	11241.6	10594.0	10351.1	10383.5
52.5°	10487.6	10543.1	10913.2	11486.8	12097.5	12483.8	12347.3	11838.4	11183.8	10934.0	11003.4
55°	10223.9	10256.3	10698.1	11394.3	12208.5	12791.4	12826.1	12393.5	11745.9	11556.2	11602.5
57.5°	9472.1	9555.4	10115.2	10961.7	12055.8	12955.6	13184.6	12897.8	12314.9	12127.5	12201.6
60°	8239.2	8322.5	8884.6	9957.9	11479.9	12879.3	13480.7	13344.2	12830.7	12680.4	12719.7
62.5°	6455.8	6448.9	7145.1	8461.3	10334.9	12504.6	13700.4	13774.5	13339.6	13149.9	13210.1
65°	4184.4	4205.2	4878.3	6296.2	8607.0	11551.6	13749.0	14322.7	13839.2	13552.4	13596.4
66°	3365.5	3428.0	3999.3	5306.2	7725.7	10927.0	13603.3	14484.6	13991.9	13644.9	13665.7
67.5°	2484.3	2472.7	2942.3	3950.8	6169.0	9740.4	13147.6	14586.4	14165.4	13728.2	13737.5
70°	1417.9	1415.6	1582.2	2169.7	3626.9	6858.3	11082.0	14098.3	14517.0	14028.9	14003.5
72.5°	1036.3	1029.3	1052.5	1198.2	1769.5	3462.7	7644.8	12321.8	14336.5	13980.3	13908.6
75°	869.7	865.1	860.5	879.0	992.3	1568.3	4057.2	8863.8	12439.8	13122.2	13048.2
77.5°	710.1	710.1	712.4	707.8	712.4	825.8	1681.6	4751.1	7575.4	8456.7	8662.5
80°	555.1	552.8	592.2	576.0	539.0	529.7	744.8	1529.0	2514.3	2500.5	2063.3
82.5°	409.4	381.7	451.1	439.5	397.9	337.7	434.9	652.3	839.7	545.9	404.8
85°	259.1	256.8	319.2	291.4	242.9	159.6	208.2	279.9	347.0	210.5	171.2
87.5°	46.3	43.9	101.8	74.0	74.0	46.3	57.8	76.3	113.3	78.6	57.8
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)