

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: P457184

Luminaire Tested: **GALN-SA8C-730-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457184
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-SA8C-730-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53343 lumens
Efficiency: N/A
Efficacy: 124.3 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

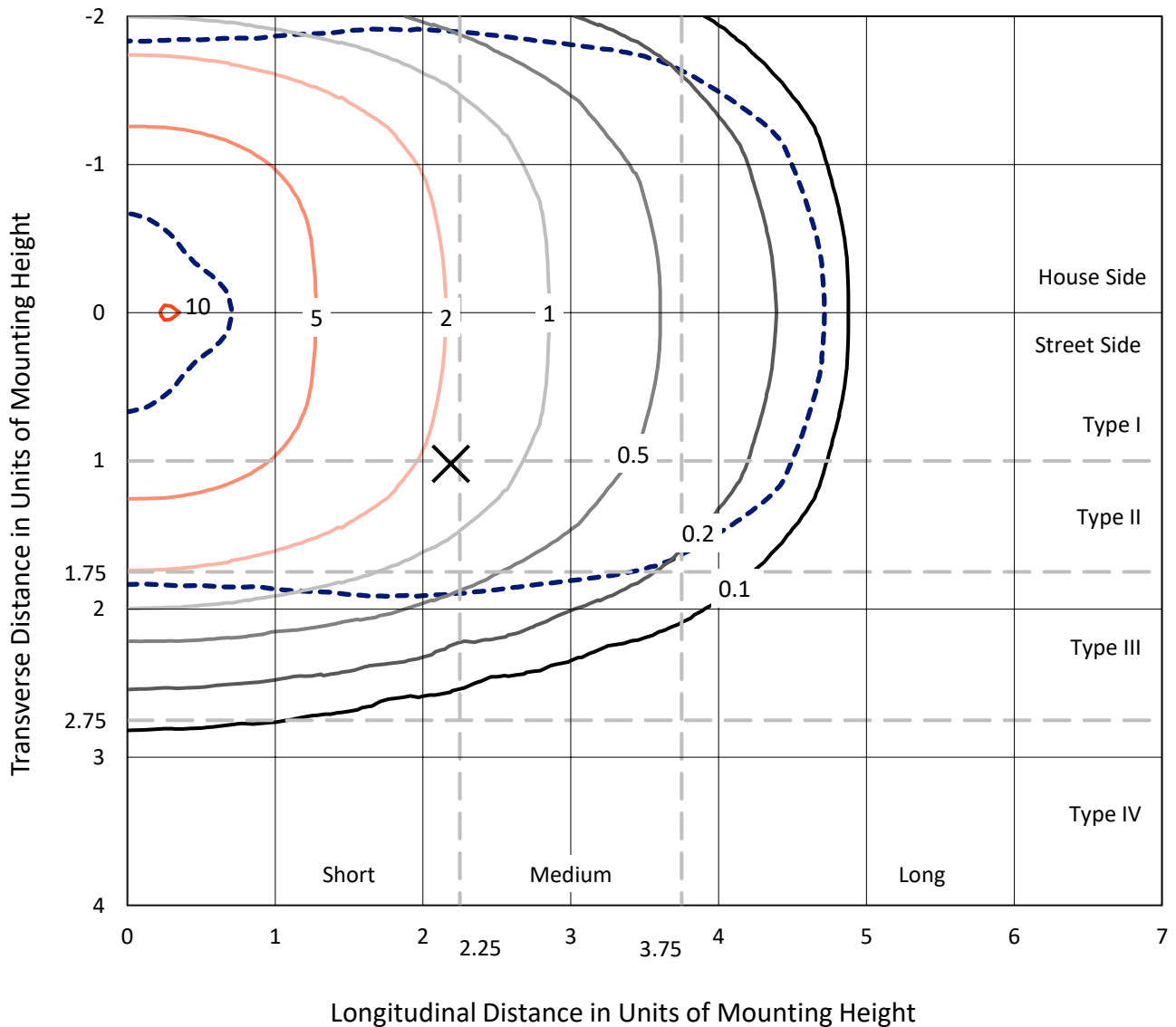
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

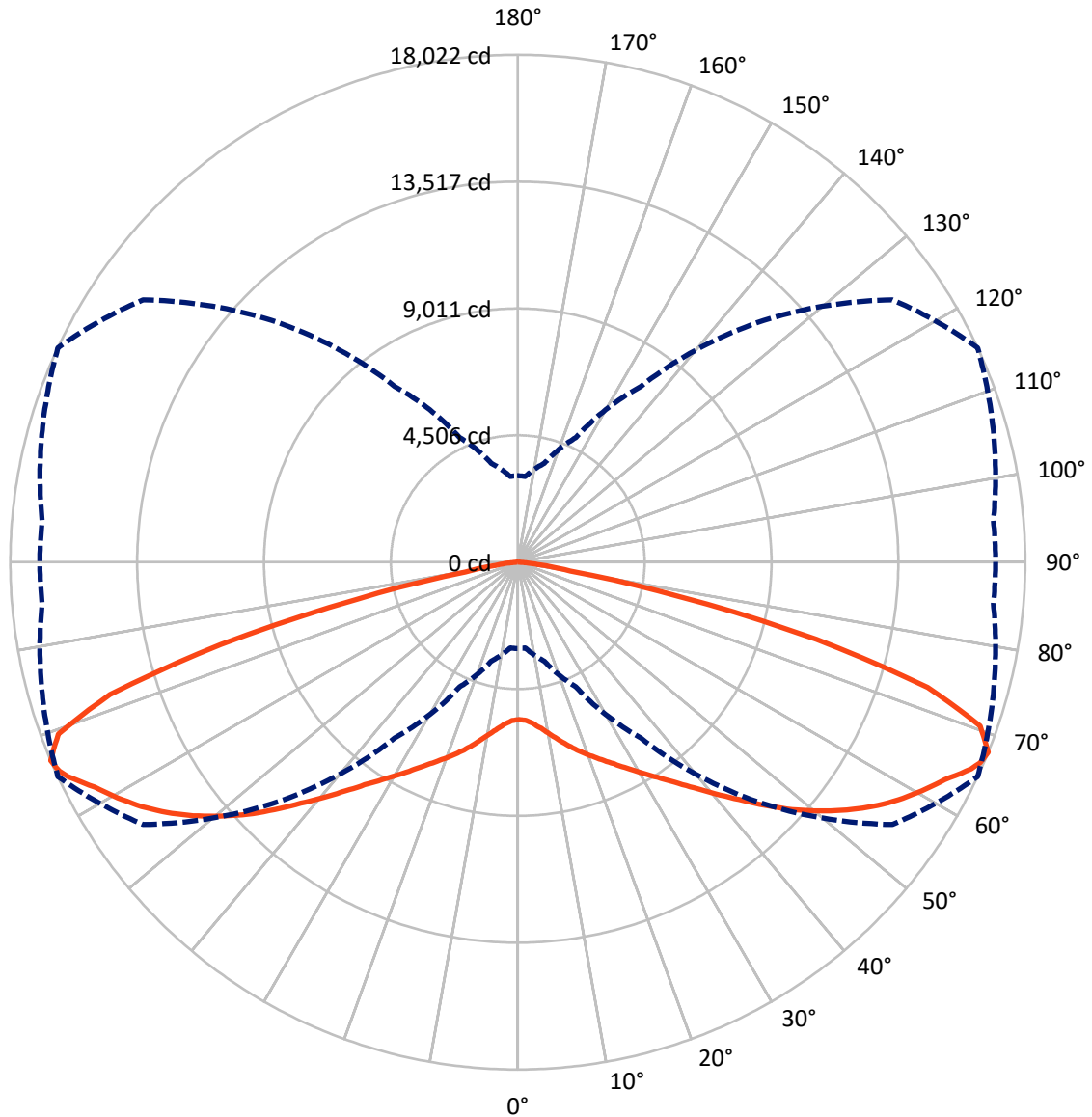
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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	26671.5	0.0	26671.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26671.5	0.0	26671.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	53343.0	0.0	53343.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.1	1.0
10°-20°	1844.3	3.5
20°-30°	3607.6	6.8
30°-40°	6136.1	11.5
40°-50°	9711.6	18.2
50°-60°	12877.3	24.1
60°-70°	12147.3	22.8
70°-80°	6005.0	11.3
80°-90°	462.8	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°	53343.0	100.0
0°-180°	53343.0	100.0

Coefficient of Utilization



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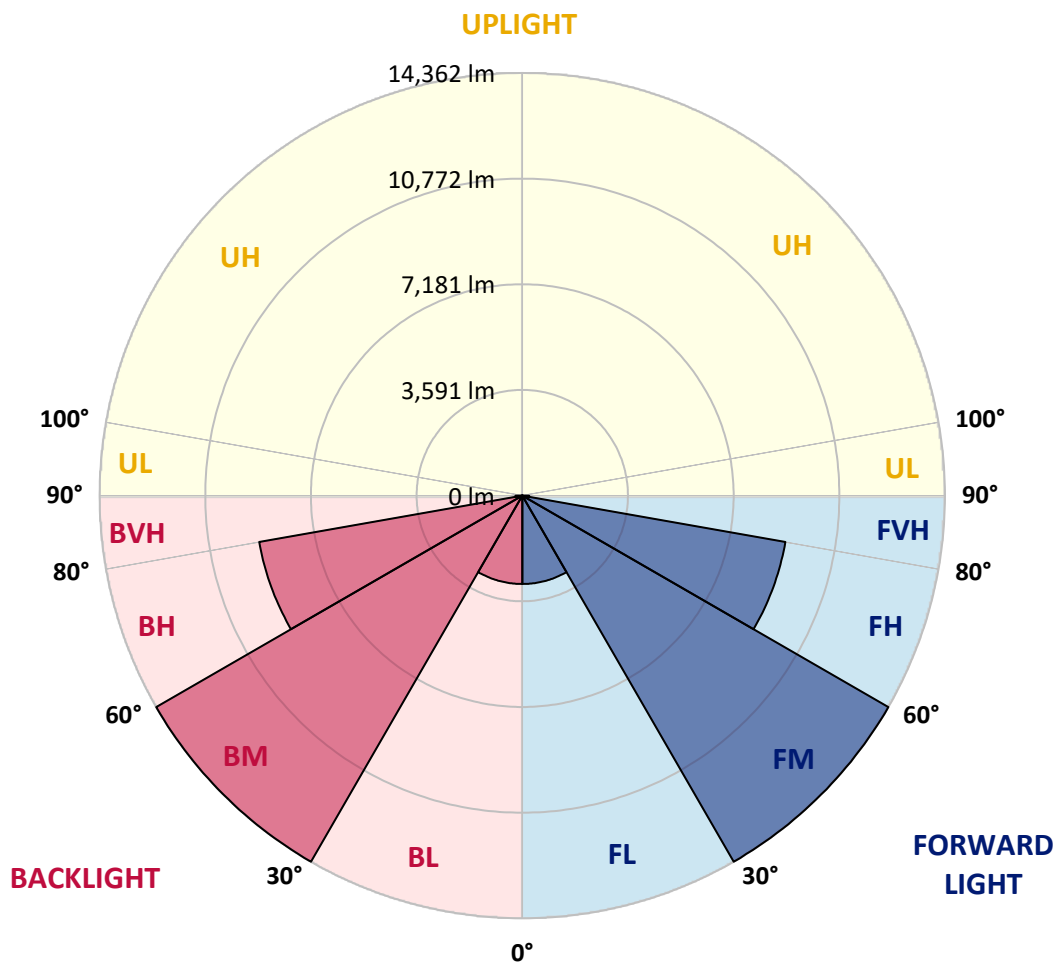
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3001.5	5.6			
FM	(30°-60°)	14362.5	26.9			
FH	(60°-80°)	9076.1	17.0			G4/12000
FVH	(80°-90°)	231.4	0.4			G3/500
BL	(0°-30°)	3001.5	5.6	B4/5000		
BM	(30°-60°)	14362.5	26.9	B5		
BH	(60°-80°)	9076.1	17.0	B5		G5
BVH	(80°-90°)	231.4	0.4			G3/500
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°	5587.2	5587.2	5587.2	5587.2	5587.2	5587.2	5587.2	5587.2	5587.2	5587.2	5587.2
2.5°	5558.6	5564.3	5570.1	5578.6	5590.1	5607.2	5618.6	5627.2	5650.1	5652.9	5650.1
5°	5538.6	5544.3	5558.6	5584.4	5621.5	5672.9	5713.0	5761.5	5798.7	5824.4	5818.7
7.5°	5535.8	5547.2	5570.1	5624.4	5695.8	5784.4	5875.9	5958.7	6030.2	6087.3	6078.8
10°	5581.5	5595.8	5632.9	5713.0	5824.4	5953.0	6081.6	6204.5	6307.4	6381.7	6407.4
12.5°	5658.7	5670.1	5738.7	5858.7	6018.8	6178.8	6324.5	6476.0	6618.9	6744.7	6744.7
15°	5793.0	5813.0	5898.7	6073.1	6270.2	6456.0	6604.6	6764.7	6919.0	7061.9	7104.8
17.5°	5978.7	6007.3	6135.9	6358.8	6610.3	6781.8	6921.9	7053.3	7187.6	7324.8	7344.8
20°	6233.1	6261.7	6433.1	6701.8	6999.0	7204.8	7299.1	7330.5	7396.3	7527.7	7544.9
22.5°	6578.9	6607.5	6799.0	7101.9	7433.4	7656.3	7696.3	7622.0	7604.9	7707.8	7719.2
25°	6970.4	6996.2	7216.2	7542.0	7885.0	8127.9	8116.5	7933.6	7830.7	7893.5	7910.7
27.5°	7410.6	7447.7	7670.6	8007.9	8379.4	8593.7	8559.4	8293.6	8073.6	8062.2	8067.9
30°	7973.6	8013.6	8225.1	8548.0	8913.8	9111.0	9039.6	8682.3	8342.2	8227.9	8227.9
32.5°	8568.0	8668.0	8882.4	9219.6	9505.4	9648.3	9539.7	9111.0	8659.5	8499.4	8490.8
35°	9342.5	9396.8	9608.3	9936.9	10151.3	10262.7	10054.1	9594.0	9073.9	8885.2	8859.5
37.5°	10099.8	10145.6	10391.4	10705.7	10965.8	10960.1	10677.1	10168.4	9588.3	9376.8	9359.6
40°	10874.3	10922.9	11203.0	11491.6	11751.7	11728.9	11385.9	10817.2	10199.9	9962.7	10008.4
42.5°	11545.9	11600.2	11917.5	12329.0	12563.4	12557.6	12160.4	11520.2	10877.2	10665.7	10705.7
45°	12157.5	12206.1	12574.8	13046.3	13389.3	13432.2	12997.8	12320.4	11660.3	11388.8	11400.2
47.5°	12589.1	12680.5	13066.4	13606.5	14072.3	14223.8	13798.0	13134.9	12374.7	12091.8	12109.0
50°	12917.7	12974.9	13395.0	14009.5	14598.2	14912.6	14569.6	13889.4	13089.2	12789.1	12829.1
52.5°	12957.8	13026.3	13483.6	14192.4	14946.9	15424.1	15255.5	14626.8	13818.0	13509.3	13595.1
55°	12632.0	12672.0	13217.8	14078.1	15084.0	15804.2	15847.1	15312.7	14512.5	14278.1	14335.3
57.5°	11703.1	11806.0	12497.6	13543.6	14895.4	16007.1	16290.1	15935.7	15215.5	14984.0	15075.5
60°	10179.9	10282.8	10977.2	12303.3	14183.8	15912.8	16655.9	16487.3	15852.8	15667.0	15715.6
62.5°	7976.4	7967.8	8828.1	10454.2	12769.1	15449.8	16927.4	17018.8	16481.6	16247.2	16321.5
65°	5170.0	5195.7	6027.3	7779.2	10634.3	14272.4	16987.4	17696.2	17098.9	16744.5	16798.8
66°	4158.3	4235.4	4941.3	6556.0	9545.4	13500.8	16807.4	17896.2	17287.5	16858.8	16884.5
67.5°	3069.4	3055.1	3635.3	4881.3	7622.0	12034.6	16244.3	18022.0	17501.8	16961.7	16973.1
70°	1751.9	1749.0	1954.8	2680.7	4481.2	8473.7	13692.2	17418.9	17936.2	17333.2	17301.8
72.5°	1280.3	1271.8	1300.3	1480.4	2186.3	4278.3	9445.4	15224.1	17713.3	17273.2	17184.6
75°	1074.6	1068.9	1063.1	1086.0	1226.0	1937.7	5012.8	10951.5	15369.8	16212.9	16121.5
77.5°	877.4	877.4	880.2	874.5	880.2	1020.3	2077.7	5870.1	9359.6	10448.5	10702.9
80°	685.9	683.0	731.6	711.6	665.9	654.5	920.2	1889.1	3106.5	3089.4	2549.3
82.5°	505.8	471.6	557.3	543.0	491.6	417.3	537.3	805.9	1037.4	674.5	500.1
85°	320.1	317.2	394.4	360.1	300.1	197.2	257.2	345.8	428.7	260.1	211.5
87.5°	57.2	54.3	125.7	91.5	91.5	57.2	71.4	94.3	140.0	97.2	71.4
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)