

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: P457648

Luminaire Tested: **GALN-SA9A-730-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457648
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-SA9A-730-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38954 lumens
Efficiency: N/A
Efficacy: 142.2 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): 274
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

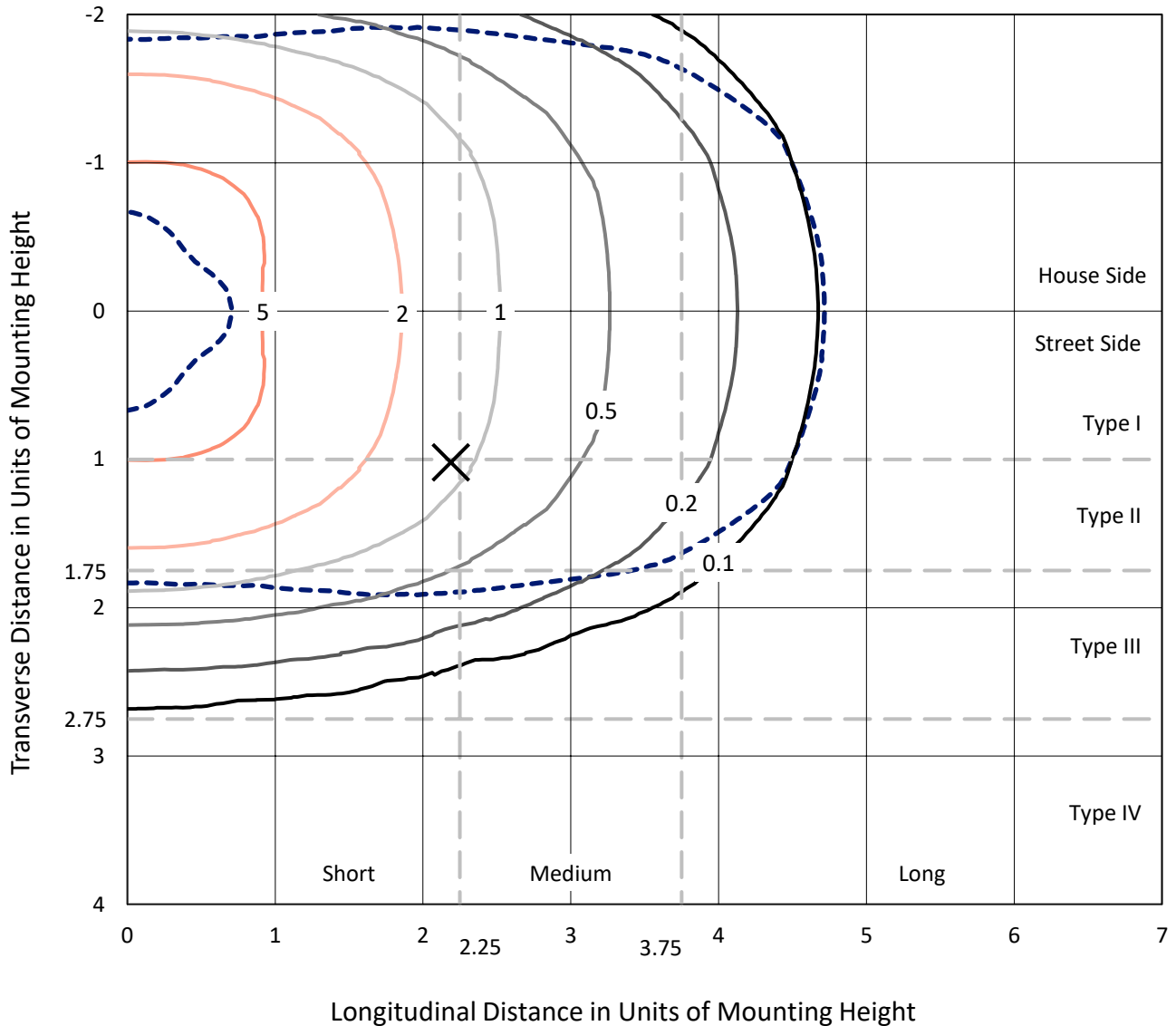




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Iso-Footcandle Lines of Horizontal Illumination

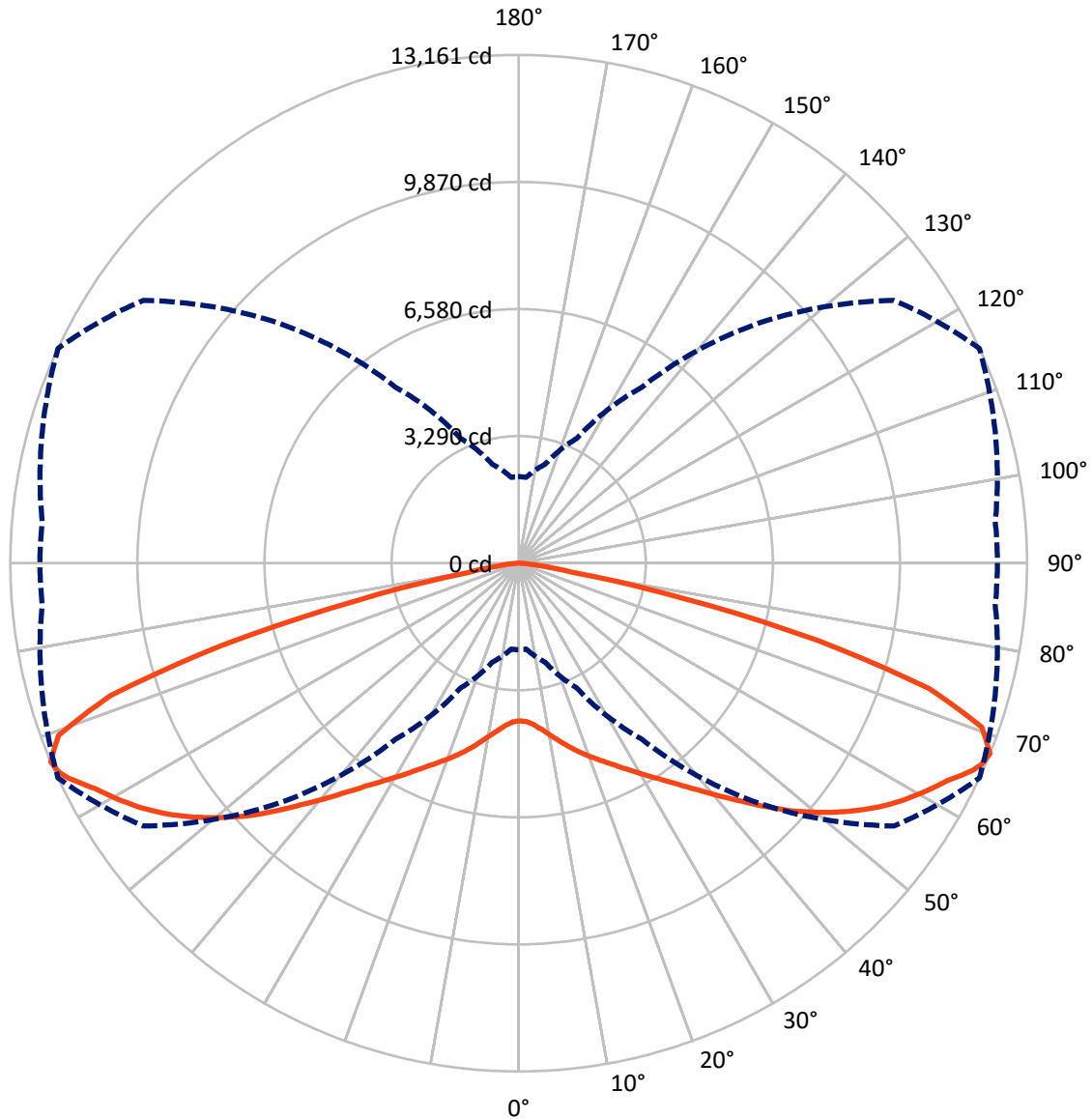
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	19477.0	0.0	19477.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19477.0	0.0	19477.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	38954.0	0.0	38954.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.4	1.0
10°-20°	1346.8	3.5
20°-30°	2634.5	6.8
30°-40°	4480.9	11.5
40°-50°	7091.9	18.2
50°-60°	9403.7	24.1
60°-70°	8870.6	22.8
70°-80°	4385.2	11.3
80°-90°	338.0	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°	38954.0	100.0
0°-180°	38954.0	100.0

Coefficient of Utilization



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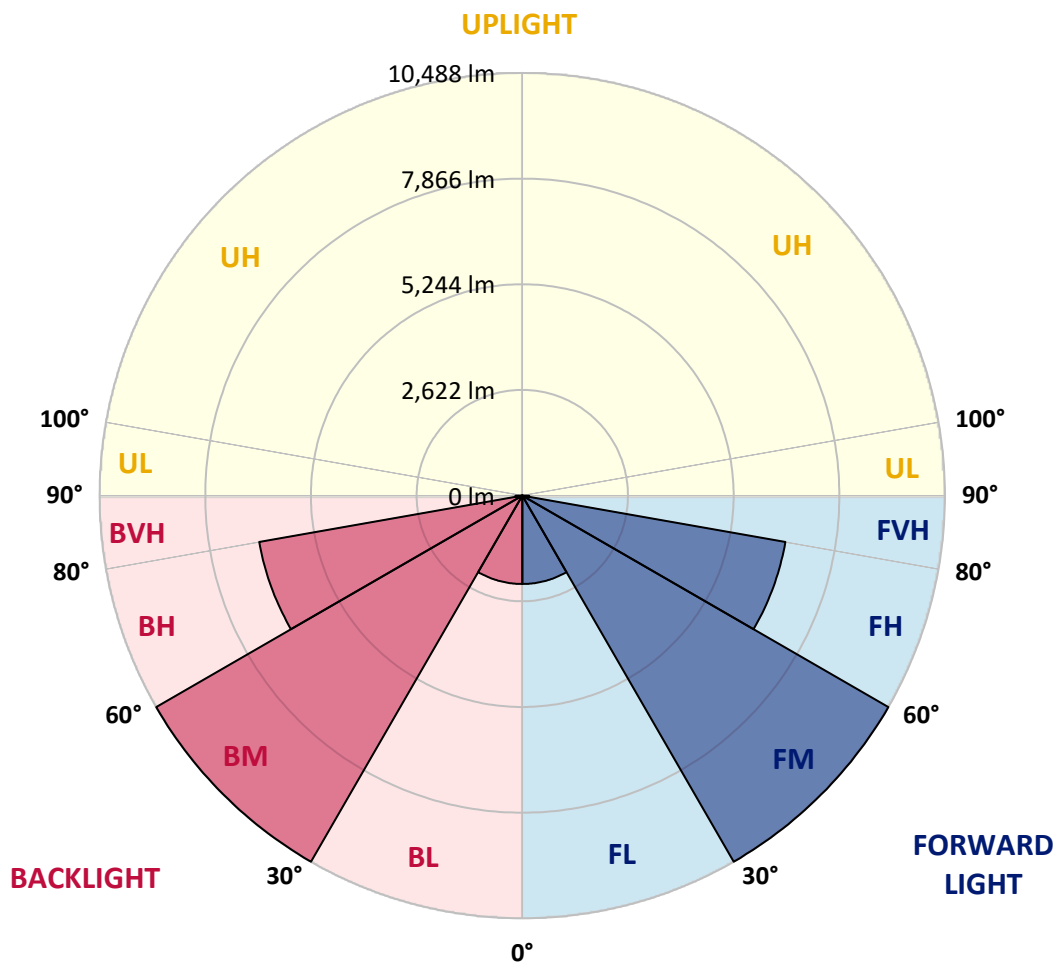
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2191.9	5.6			
FM (30°-60°)	10488.3	26.9			
FH (60°-80°)	6627.9	17.0			G3/7500
FVH (80°-90°)	169.0	0.4			G2/225
BL (0°-30°)	2191.9	5.6	B3/2500		
BM (30°-60°)	10488.3	26.9	B5		
BH (60°-80°)	6627.9	17.0	B5		G5
BVH (80°-90°)	169.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4080.1	4080.1	4080.1	4080.1	4080.1	4080.1	4080.1	4080.1	4080.1	4080.1	4080.1
2.5°	4059.2	4063.4	4067.6	4073.8	4082.2	4094.7	4103.0	4109.3	4126.0	4128.1	4126.0
5°	4044.6	4048.8	4059.2	4078.0	4105.1	4142.7	4171.9	4207.4	4234.5	4253.3	4249.1
7.5°	4042.5	4050.9	4067.6	4107.2	4159.4	4224.1	4290.9	4351.4	4403.6	4445.3	4439.1
10°	4075.9	4086.3	4113.5	4171.9	4253.3	4347.2	4441.1	4530.9	4606.0	4660.3	4679.1
12.5°	4132.3	4140.6	4190.7	4278.4	4395.2	4512.1	4618.5	4729.1	4833.5	4925.3	4925.3
15°	4230.4	4245.0	4307.6	4434.9	4578.9	4714.5	4823.1	4939.9	5052.6	5157.0	5188.3
17.5°	4366.0	4386.9	4480.8	4643.6	4827.2	4952.5	5054.7	5150.7	5248.8	5349.0	5363.6
20°	4551.8	4572.6	4697.8	4894.0	5111.1	5261.3	5330.2	5353.2	5401.2	5497.2	5509.7
22.5°	4804.3	4825.1	4965.0	5186.2	5428.3	5591.1	5620.3	5566.0	5553.5	5628.6	5637.0
25°	5090.2	5109.0	5269.7	5507.6	5758.0	5935.4	5927.1	5793.5	5718.4	5764.3	5776.8
27.5°	5411.6	5438.7	5601.5	5847.8	6119.1	6275.6	6250.6	6056.5	5895.8	5887.4	5891.6
30°	5822.7	5852.0	6006.4	6242.2	6509.4	6653.4	6601.2	6340.3	6092.0	6008.5	6008.5
32.5°	6256.8	6329.9	6486.4	6732.7	6941.4	7045.7	6966.4	6653.4	6323.6	6206.7	6200.5
35°	6822.4	6862.1	7016.5	7256.5	7413.0	7494.4	7342.1	7006.1	6626.2	6488.5	6469.7
37.5°	7375.5	7408.9	7588.3	7817.9	8007.8	8003.7	7797.0	7425.6	7001.9	6847.5	6834.9
40°	7941.0	7976.5	8181.0	8391.8	8581.8	8565.1	8314.6	7899.3	7448.5	7275.3	7308.7
42.5°	8431.5	8471.1	8702.8	9003.3	9174.5	9170.3	8880.2	8412.7	7943.1	7788.7	7817.9
45°	8878.1	8913.6	9182.8	9527.2	9777.6	9808.9	9491.7	8997.1	8515.0	8316.7	8325.0
47.5°	9193.2	9260.0	9541.8	9936.2	10276.4	10387.0	10076.0	9591.9	9036.7	8830.1	8842.6
50°	9433.2	9475.0	9781.8	10230.5	10660.4	10890.0	10639.5	10142.8	9558.5	9339.3	9368.5
52.5°	9462.5	9512.6	9846.5	10364.0	10915.0	11263.5	11140.4	10681.3	10090.7	9865.3	9927.9
55°	9224.5	9253.8	9652.4	10280.6	11015.2	11541.1	11572.4	11182.2	10597.8	10426.7	10468.4
57.5°	8546.3	8621.4	9126.5	9890.3	10877.5	11689.3	11895.9	11637.1	11111.2	10942.1	11008.9
60°	7433.9	7509.0	8016.2	8984.5	10357.8	11620.4	12163.0	12039.9	11576.6	11440.9	11476.4
62.5°	5824.8	5818.6	6446.7	7634.3	9324.7	11282.3	12361.3	12428.1	12035.7	11864.6	11918.9
65°	3775.4	3794.2	4401.5	5680.8	7765.7	10422.5	12405.1	12922.7	12486.5	12227.7	12267.4
66°	3036.6	3092.9	3608.4	4787.6	6970.6	9859.0	12273.7	13068.8	12624.3	12311.2	12330.0
67.5°	2241.4	2231.0	2654.7	3564.6	5566.0	8788.4	11862.5	13160.6	12780.8	12386.4	12394.7
70°	1279.3	1277.2	1427.5	1957.6	3272.4	6188.0	9998.8	12720.3	13098.0	12657.7	12634.7
72.5°	935.0	928.7	949.6	1081.1	1596.6	3124.2	6897.5	11117.5	12935.2	12613.8	12549.1
75°	784.7	780.5	776.4	793.1	895.3	1415.0	3660.6	7997.4	11223.9	11839.6	11772.8
77.5°	640.7	640.7	642.8	638.6	642.8	745.1	1517.3	4286.7	6834.9	7630.1	7815.8
80°	500.9	498.8	534.3	519.7	486.3	477.9	672.0	1379.5	2268.6	2256.0	1861.6
82.5°	369.4	344.4	407.0	396.5	359.0	304.7	392.4	588.5	757.6	492.5	365.2
85°	233.7	231.7	288.0	263.0	219.1	144.0	187.8	252.5	313.1	189.9	154.4
87.5°	41.7	39.7	91.8	66.8	66.8	41.7	52.2	68.9	102.3	71.0	52.2
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)