

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: P457875

Luminaire Tested: **GALN-SA9B-730-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-730-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49272 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

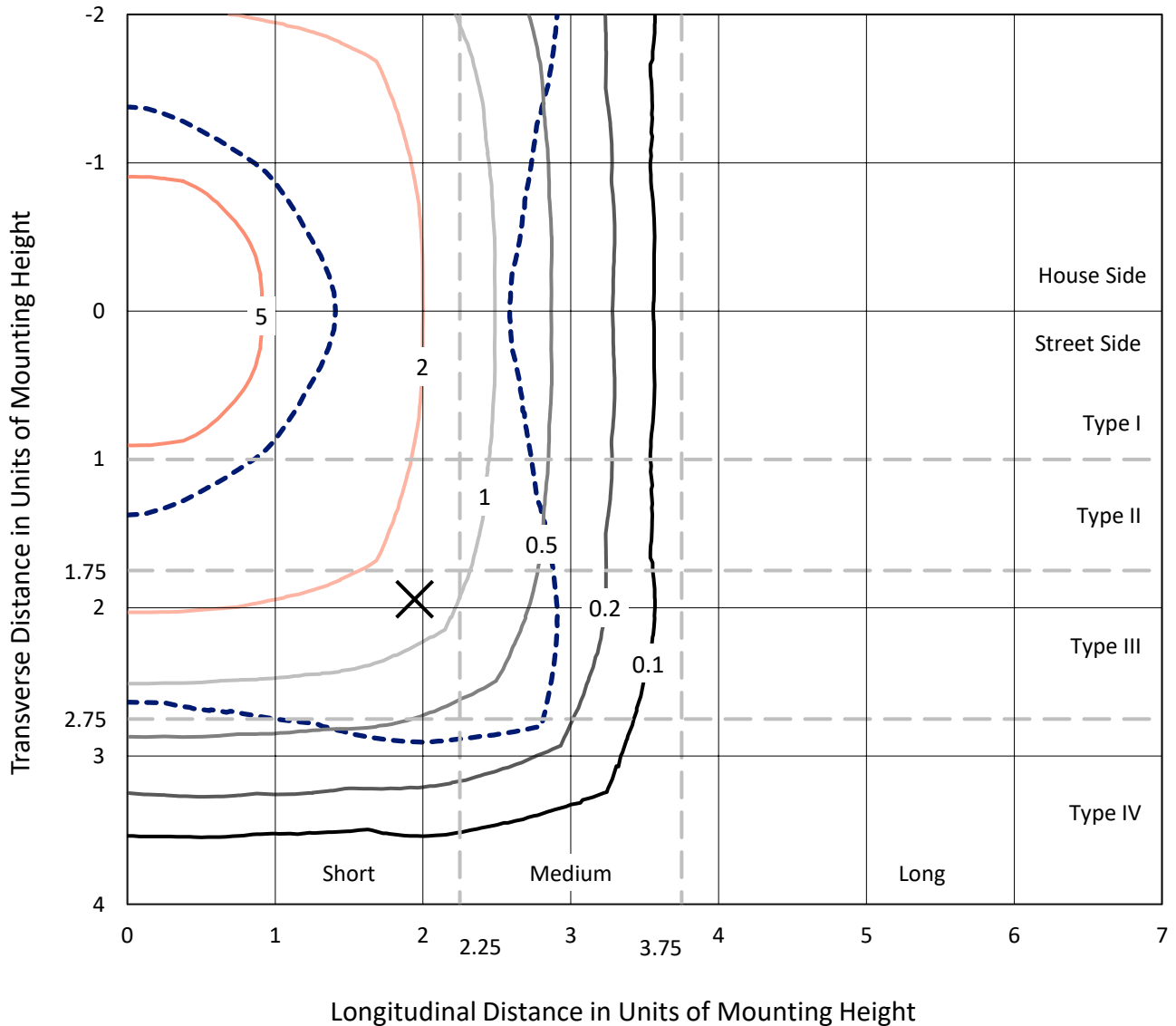
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

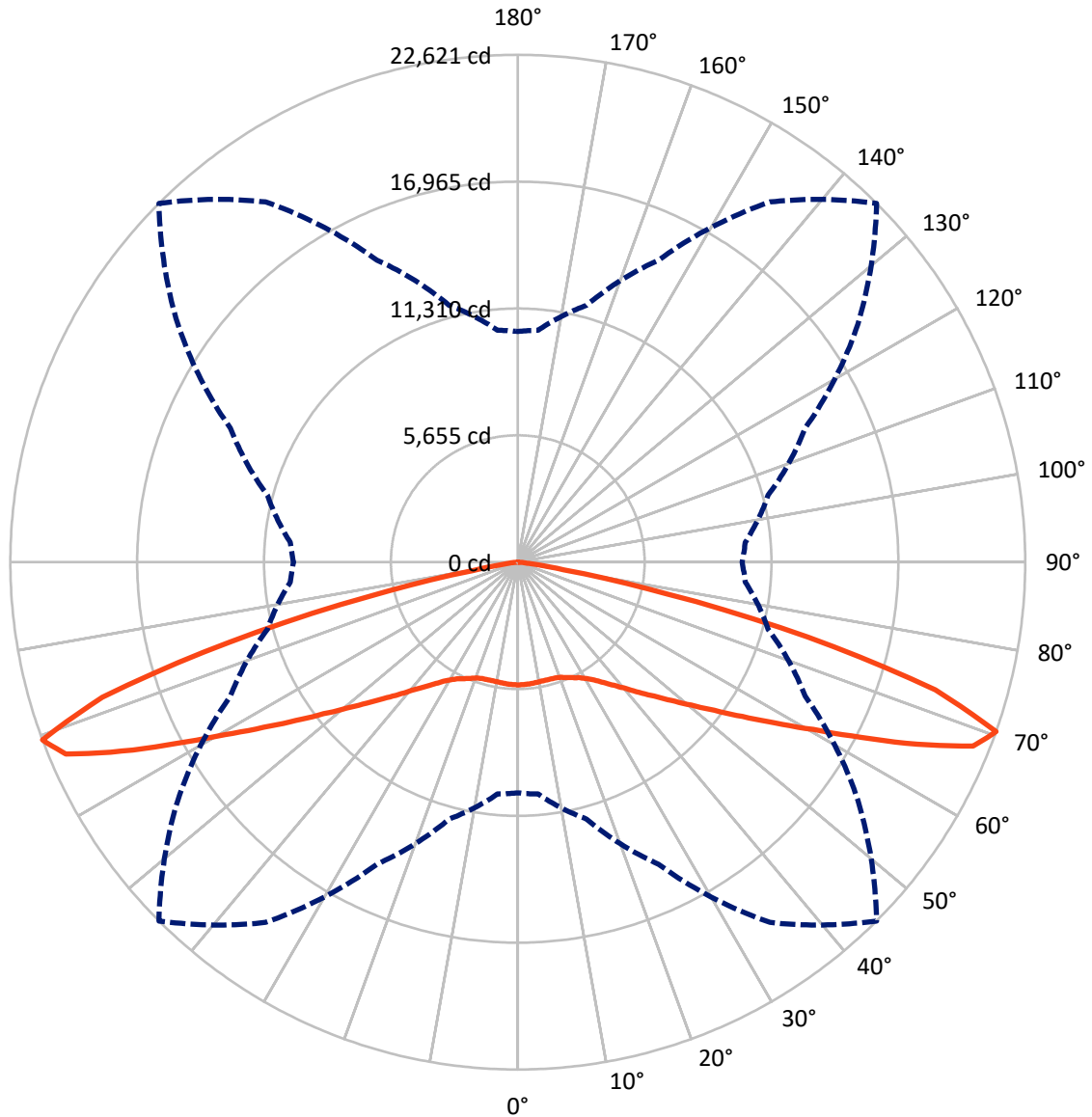
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24636.0	0.0	24636.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24636.0	0.0	24636.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	49272.0	0.0	49272.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.8	1.1
10°-20°	1522.5	3.1
20°-30°	2604.0	5.3
30°-40°	4133.1	8.4
40°-50°	6667.7	13.5
50°-60°	10848.5	22.0
60°-70°	15726.5	31.9
70°-80°	6975.7	14.2
80°-90°	275.1	0.6
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°	49272.0	100.0
0°-180°	49272.0	100.0

Coefficient of Utilization



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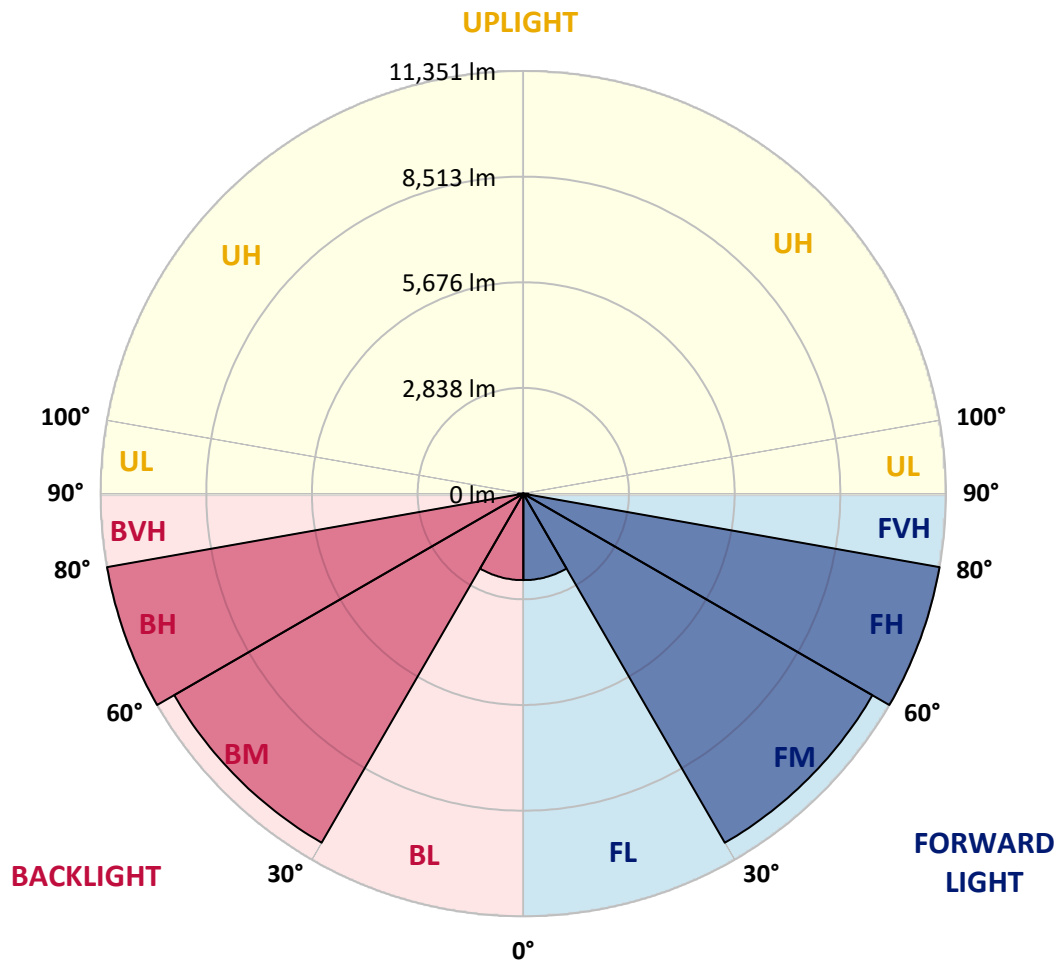
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2322.7	4.7			
FM (30°-60°)	10824.7	22.0			
FH (60°-80°)	11351.1	23.0			G4/12000
FVH (80°-90°)	137.6	0.3			G2/225
BL (0°-30°)	2322.7	4.7	B3/2500		
BM (30°-60°)	10824.7	22.0	B5		
BH (60°-80°)	11351.1	23.0	B5		G4/12000
BVH (80°-90°)	137.6	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5471.4	5471.4	5471.4	5471.4	5471.4	5471.4	5471.4	5471.4	5471.4	5471.4	5471.4
2.5°	5471.4	5476.6	5468.8	5463.6	5461.0	5461.0	5458.4	5461.0	5476.6	5479.2	5471.4
5°	5455.8	5461.0	5458.4	5453.2	5450.6	5450.6	5448.1	5445.5	5458.4	5463.6	5461.0
7.5°	5435.1	5437.7	5435.1	5432.5	5435.1	5432.5	5424.7	5419.5	5429.9	5429.9	5427.3
10°	5398.7	5403.9	5401.3	5403.9	5409.1	5409.1	5398.7	5388.3	5390.9	5385.7	5385.7
12.5°	5354.6	5362.4	5365.0	5375.3	5388.3	5403.9	5380.5	5357.2	5352.0	5349.4	5346.8
15°	5326.0	5333.8	5344.2	5354.6	5377.9	5411.7	5377.9	5341.6	5331.2	5320.8	5315.6
17.5°	5318.2	5328.6	5344.2	5359.8	5390.9	5424.7	5396.1	5359.8	5333.8	5318.2	5313.0
20°	5339.0	5346.8	5370.1	5398.7	5442.9	5476.6	5448.1	5409.1	5370.1	5346.8	5339.0
22.5°	5380.5	5393.5	5422.1	5474.0	5536.3	5585.7	5546.7	5481.8	5419.5	5388.3	5377.9
25°	5471.4	5481.8	5515.6	5585.7	5658.4	5705.1	5663.6	5588.3	5502.6	5461.0	5448.1
27.5°	5609.1	5624.6	5661.0	5744.1	5803.8	5829.8	5801.2	5749.3	5687.0	5642.8	5632.4
30°	5803.8	5822.0	5876.5	5964.8	6003.8	6019.3	6006.4	5972.6	5928.5	5881.7	5871.3
32.5°	6066.1	6076.5	6138.8	6221.9	6258.2	6263.4	6247.9	6232.3	6159.6	6081.7	6076.5
35°	6359.5	6377.7	6453.0	6551.7	6585.4	6588.0	6556.9	6533.5	6447.8	6385.5	6385.5
37.5°	6749.0	6756.8	6829.5	6941.2	6977.6	6967.2	6951.6	6930.8	6839.9	6759.4	6762.0
40°	7206.1	7221.7	7284.0	7413.8	7413.8	7400.8	7411.2	7395.6	7304.8	7226.8	7229.4
42.5°	7748.8	7756.6	7831.9	7969.5	7959.1	7933.2	7943.6	7922.8	7865.7	7777.4	7746.2
45°	8327.9	8359.0	8488.9	8621.3	8600.5	8517.5	8559.0	8553.8	8501.9	8369.4	8377.2
47.5°	9026.4	9078.4	9203.0	9361.4	9338.0	9208.2	9254.9	9286.1	9213.4	9068.0	9042.0
50°	9813.2	9847.0	10031.4	10179.4	10158.6	10021.0	10127.5	10132.7	9950.9	9745.7	9745.7
52.5°	10652.0	10685.8	10935.1	11166.2	11179.2	10979.2	11064.9	11059.7	10763.7	10493.6	10441.7
55°	11592.0	11607.6	11929.6	12269.8	12342.5	12147.8	12158.1	12054.3	11669.9	11355.7	11327.2
57.5°	12563.2	12620.4	12976.1	13417.6	13633.1	13513.7	13459.1	13181.3	12809.9	12449.0	12430.8
60°	13638.3	13640.9	14103.1	14625.1	15061.3	15141.8	14918.5	14547.2	14066.8	13589.0	13568.2
62.5°	14383.6	14495.2	15079.5	15962.4	16744.1	17195.9	16606.4	15827.4	14882.2	14110.9	14033.0
65°	14536.8	14612.1	15502.8	16998.5	18595.6	19569.4	18206.1	16549.3	14936.7	13908.4	13856.4
67.5°	13298.1	13378.6	14578.3	16873.9	19894.0	21890.9	19244.8	16201.3	14012.2	12739.8	12638.5
70°	10285.9	10376.7	11859.5	14853.6	19605.7	22620.6	18504.7	14131.7	11555.7	10182.0	9997.6
72.5°	5468.8	5803.8	7071.0	10195.0	15913.1	19475.9	15173.0	10311.8	7452.8	6092.1	5848.0
75°	1996.9	2038.5	2744.8	4521.0	9257.5	13355.3	9613.3	4918.3	2827.9	2183.9	2072.2
77.5°	825.8	823.2	903.7	1365.9	3362.8	6839.9	3752.4	1443.8	901.1	833.6	823.2
80°	488.2	488.2	537.5	568.7	885.5	2064.4	989.4	644.0	540.1	493.4	501.2
82.5°	218.1	231.1	340.2	358.4	428.5	566.1	477.8	410.3	353.2	244.1	220.7
85°	119.5	103.9	179.2	187.0	205.1	210.3	225.9	223.3	205.1	119.5	122.0
87.5°	23.4	28.6	51.9	39.0	44.1	39.0	51.9	72.7	75.3	41.5	33.8
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)