

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: P456948

Luminaire Tested: **GALN-SA8B-730-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456948  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
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-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43671 lumens  
Efficiency: N/A  
Efficacy: 134.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

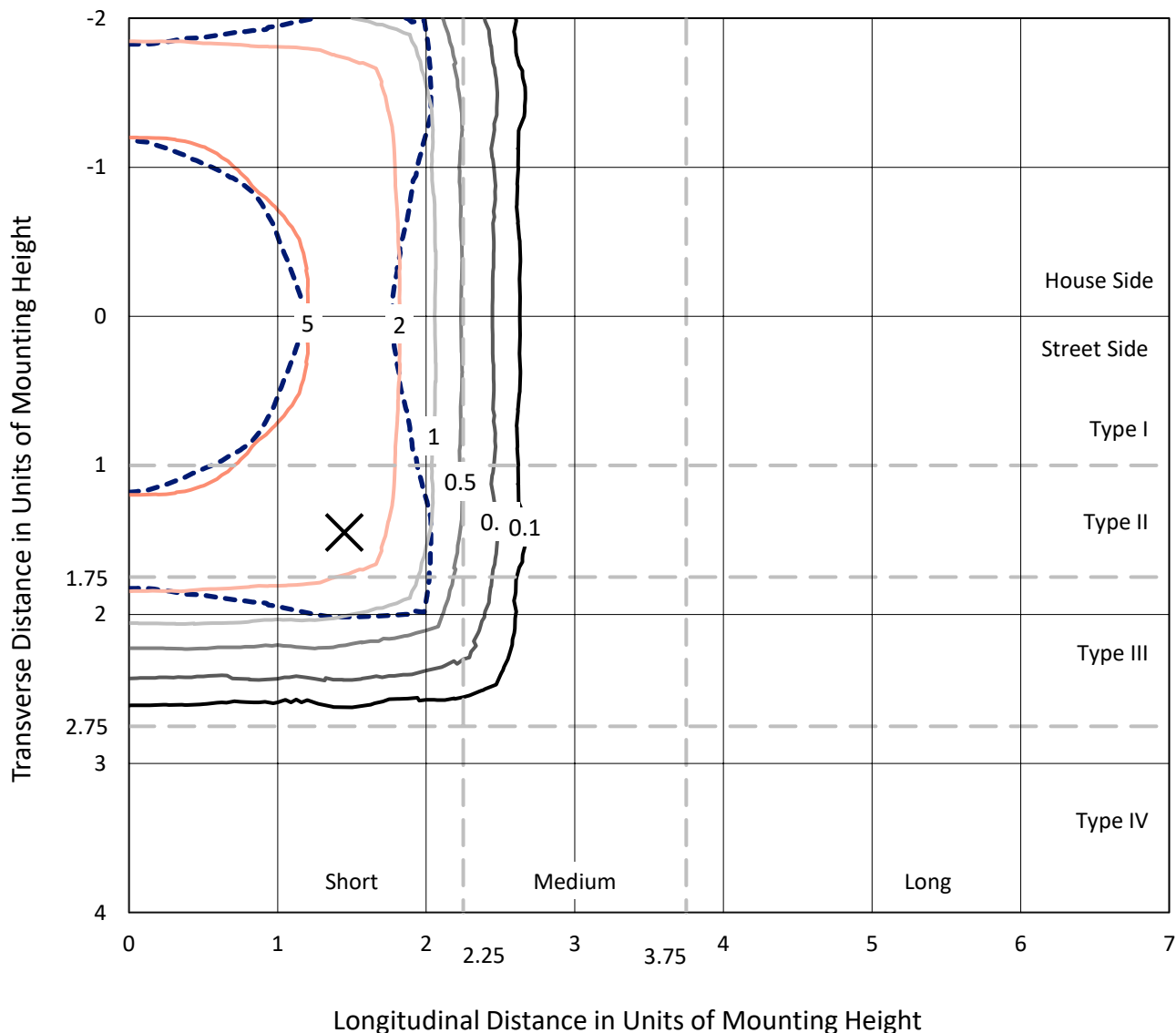
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

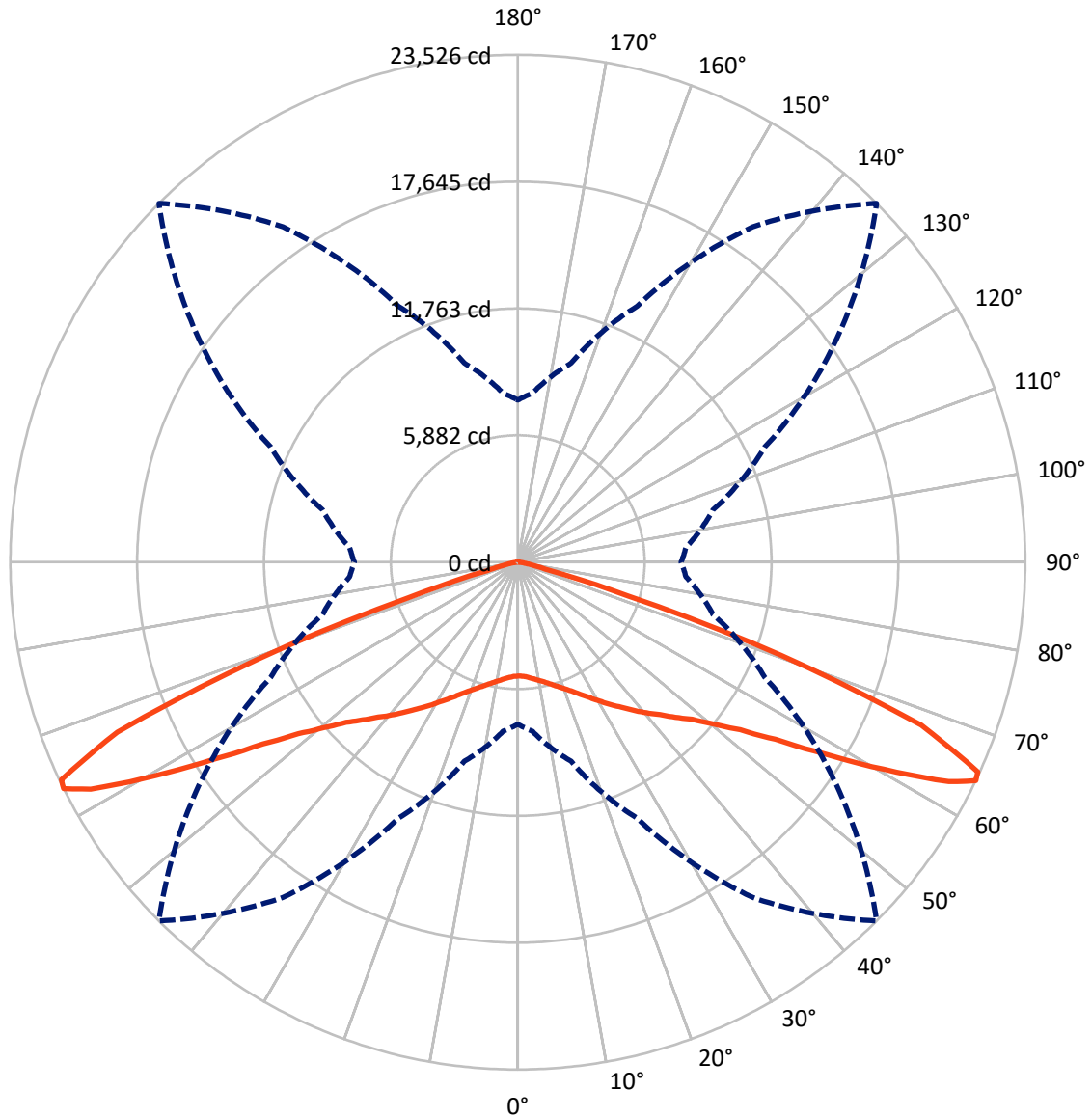
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21835.5	0.0	21835.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21835.5	0.0	21835.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	43671.0	0.0	43671.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	518.6	1.2
10°-20°	1672.7	3.8
20°-30°	3160.9	7.2
30°-40°	5234.9	12.0
40°-50°	8172.5	18.7
50°-60°	12634.4	28.9
60°-70°	10894.5	24.9
70°-80°	1234.6	2.8
80°-90°	147.9	0.3
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°	43671.0	100.0
0°-180°	43671.0	100.0

**Coefficient of Utilization**



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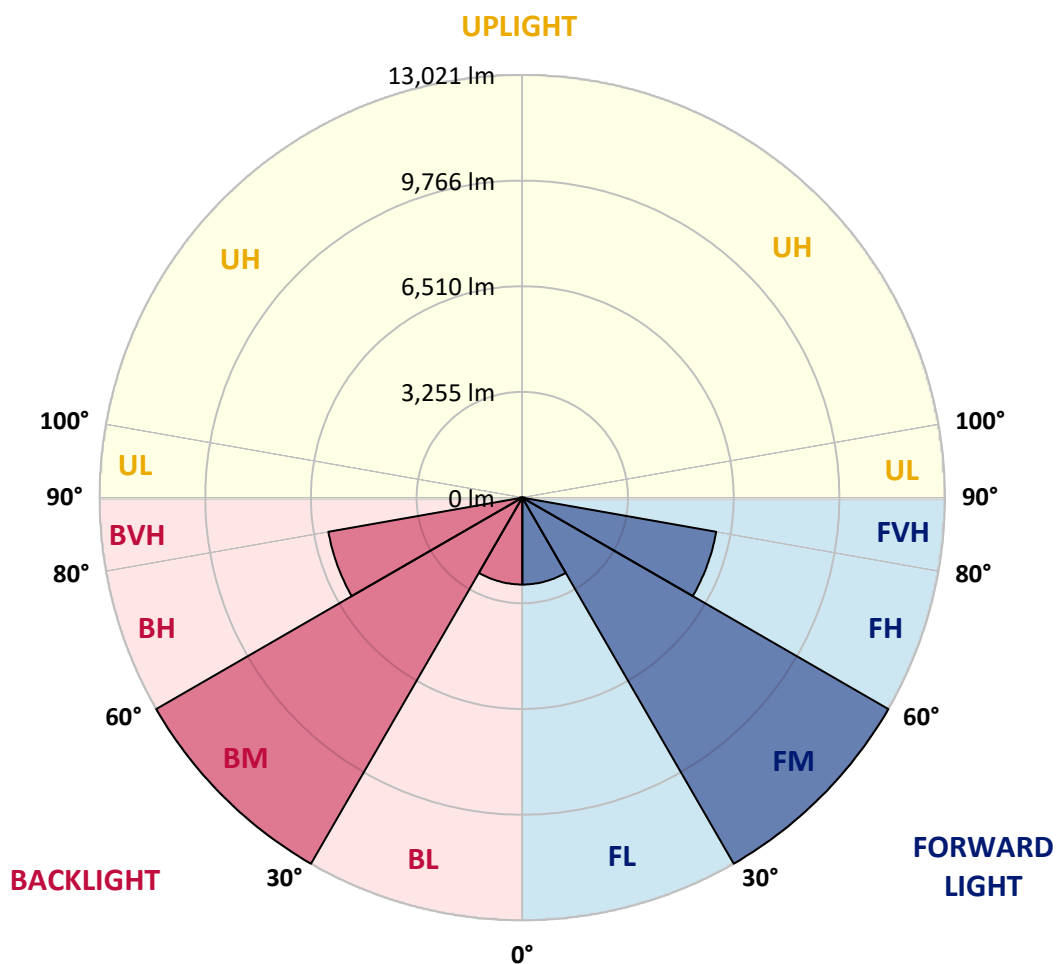
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2676.1	6.1			
FM (30°-60°)	13020.9	29.8			
FH (60°-80°)	6064.6	13.9			G3/7500
FVH (80°-90°)	74.0	0.2			G1/100
BL (0°-30°)	2676.1	6.1	B4/5000		
BM (30°-60°)	13020.9	29.8	B5		
BH (60°-80°)	6064.6	13.9	B5		G3/7500
BVH (80°-90°)	74.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5278.4	5278.4	5278.4	5278.4	5278.4	5278.4	5278.4	5278.4	5278.4	5278.4	5278.4
2.5°	5299.2	5310.8	5301.5	5299.2	5296.9	5296.9	5296.9	5299.2	5308.4	5315.4	5310.8
5°	5366.3	5375.5	5370.9	5368.6	5366.3	5366.3	5364.0	5361.6	5368.6	5368.6	5366.3
7.5°	5449.5	5461.1	5456.5	5461.1	5463.4	5465.7	5454.2	5444.9	5442.6	5449.5	5444.9
10°	5562.9	5572.1	5574.4	5576.8	5581.4	5579.1	5565.2	5549.0	5546.7	5544.4	5542.1
12.5°	5690.1	5697.0	5699.3	5708.6	5715.5	5717.9	5701.7	5687.8	5664.7	5669.3	5660.0
15°	5833.5	5847.4	5845.1	5858.9	5877.5	5882.1	5865.9	5842.8	5821.9	5810.4	5803.4
17.5°	6009.3	6018.5	6013.9	6027.8	6050.9	6062.5	6048.6	6018.5	5997.7	5972.3	5958.4
20°	6217.5	6233.7	6238.3	6238.3	6259.1	6270.7	6249.9	6240.6	6208.2	6189.7	6178.2
22.5°	6453.4	6460.3	6474.2	6488.1	6508.9	6504.3	6497.4	6483.5	6453.4	6437.2	6418.7
25°	6719.4	6726.3	6761.0	6791.1	6798.0	6793.4	6784.2	6777.2	6749.5	6712.5	6698.6
27.5°	7029.4	7043.2	7089.5	7117.2	7117.2	7119.6	7101.1	7124.2	7064.0	7020.1	7015.5
30°	7417.9	7427.2	7466.5	7494.3	7480.4	7468.8	7464.2	7487.3	7422.6	7343.9	7325.4
32.5°	7801.9	7834.3	7869.0	7929.1	7880.6	7859.7	7855.1	7871.3	7797.3	7709.4	7683.9
35°	8213.6	8236.8	8301.5	8352.4	8308.5	8259.9	8280.7	8331.6	8243.7	8125.7	8121.1
37.5°	8669.3	8690.1	8773.4	8826.6	8794.2	8710.9	8745.6	8805.8	8717.9	8572.2	8542.1
40°	9143.5	9187.4	9291.5	9347.0	9293.8	9182.8	9247.6	9312.3	9233.7	9064.8	8997.8
42.5°	9675.5	9744.9	9895.2	9923.0	9821.2	9670.9	9784.2	9888.3	9832.8	9638.5	9613.0
45°	10297.7	10339.3	10524.4	10584.5	10443.4	10256.1	10397.1	10586.8	10545.2	10320.8	10272.2
47.5°	10993.9	11033.2	11225.2	11315.4	11137.3	10885.2	11139.6	11387.1	11361.7	11121.1	11098.0
50°	11817.4	11826.6	12092.6	12194.4	12016.3	11798.9	12025.5	12333.2	12231.4	11923.8	11919.1
52.5°	12719.4	12731.0	13066.4	13263.0	13163.6	12918.4	13186.7	13374.0	13115.0	12712.5	12682.4
55°	13501.3	13559.1	14017.1	14539.8	14676.3	14498.2	14579.1	14491.2	13852.8	13288.5	13200.6
57.5°	13820.5	13933.8	14630.0	15606.1	16494.3	16758.0	16133.5	15296.2	14146.6	13348.6	13263.0
60°	13041.0	13163.6	14243.7	16096.5	18363.3	19508.2	17752.6	15432.7	13478.1	12356.3	12222.1
62.5°	10443.4	10478.1	12067.2	14942.3	19452.7	22418.1	18435.0	14269.2	11532.9	10008.6	9955.4
64°	7515.1	7871.3	9555.2	13101.1	18976.2	23526.0	18041.8	12638.5	9367.8	7825.0	7575.2
65°	5620.7	5717.9	7702.4	11188.2	18136.6	23442.7	17278.5	11079.5	7758.0	5988.5	5710.9
67.5°	2123.4	2134.9	2842.7	5576.8	12911.4	20169.8	13186.7	6027.8	3268.3	2363.9	2278.4
70°	881.3	897.5	1043.2	1875.9	5549.0	12950.8	6358.6	2174.3	1195.8	969.2	955.3
72.5°	645.3	654.6	698.5	832.7	1707.0	5317.7	2091.0	922.9	700.9	626.8	619.9
75°	506.6	511.2	543.6	613.0	795.7	1473.4	869.7	633.8	534.3	481.1	476.5
77.5°	386.3	397.8	421.0	467.2	534.3	698.5	575.9	474.2	411.7	367.8	360.8
80°	266.0	279.9	323.8	342.3	358.5	453.4	393.2	358.5	321.5	268.3	252.1
82.5°	164.2	173.5	217.4	233.6	226.7	254.4	252.1	256.7	229.0	166.5	155.0
85°	85.6	90.2	118.0	122.6	113.3	104.1	129.5	150.3	141.1	94.8	92.5
87.5°	18.5	20.8	25.4	23.1	25.4	25.4	32.4	48.6	50.9	32.4	30.1
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)