

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: P456963

Luminaire Tested: **GALN-SA8B-730-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456963  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)  
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-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41772 lumens  
Efficiency: N/A  
Efficacy: 128.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

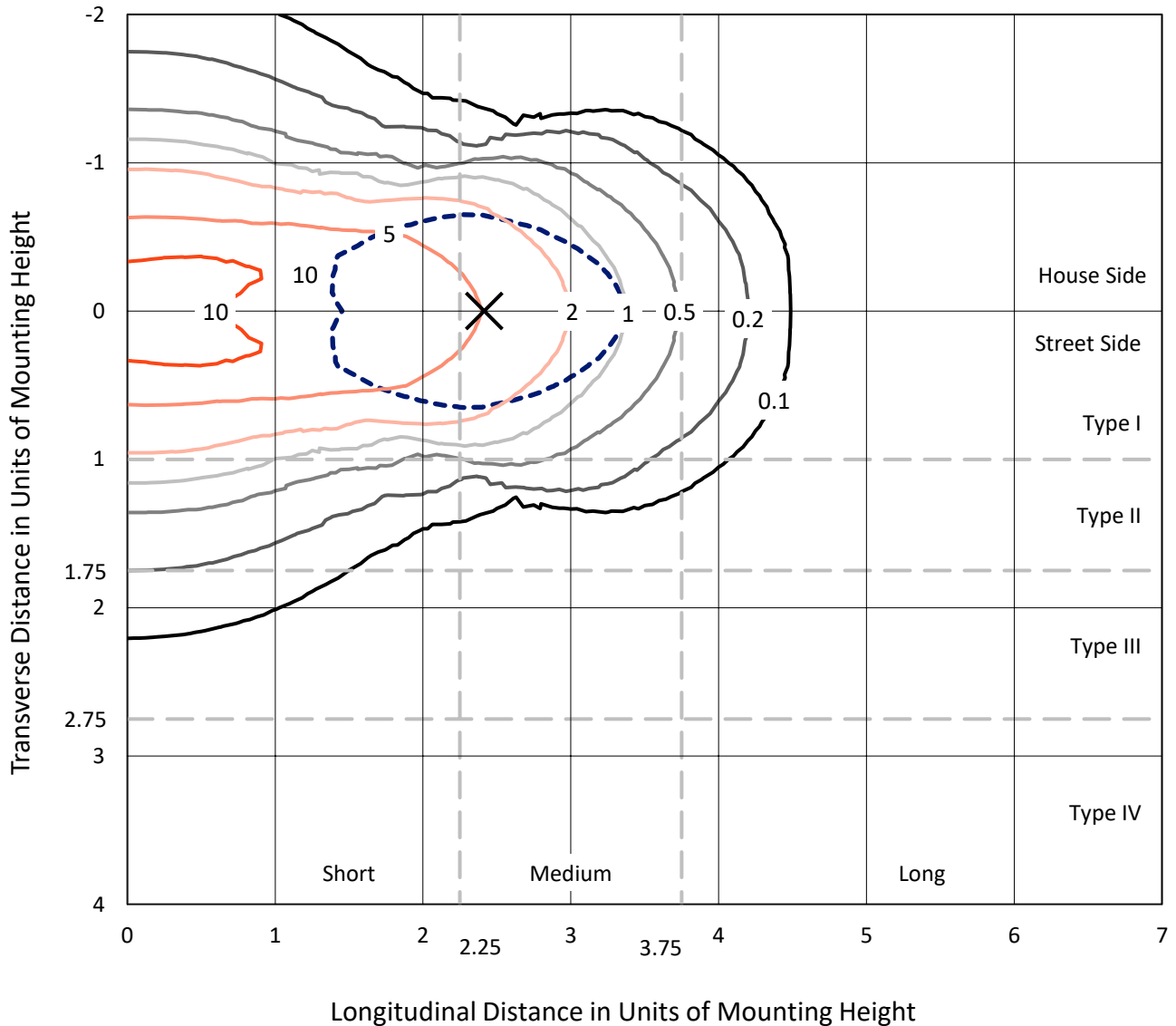
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

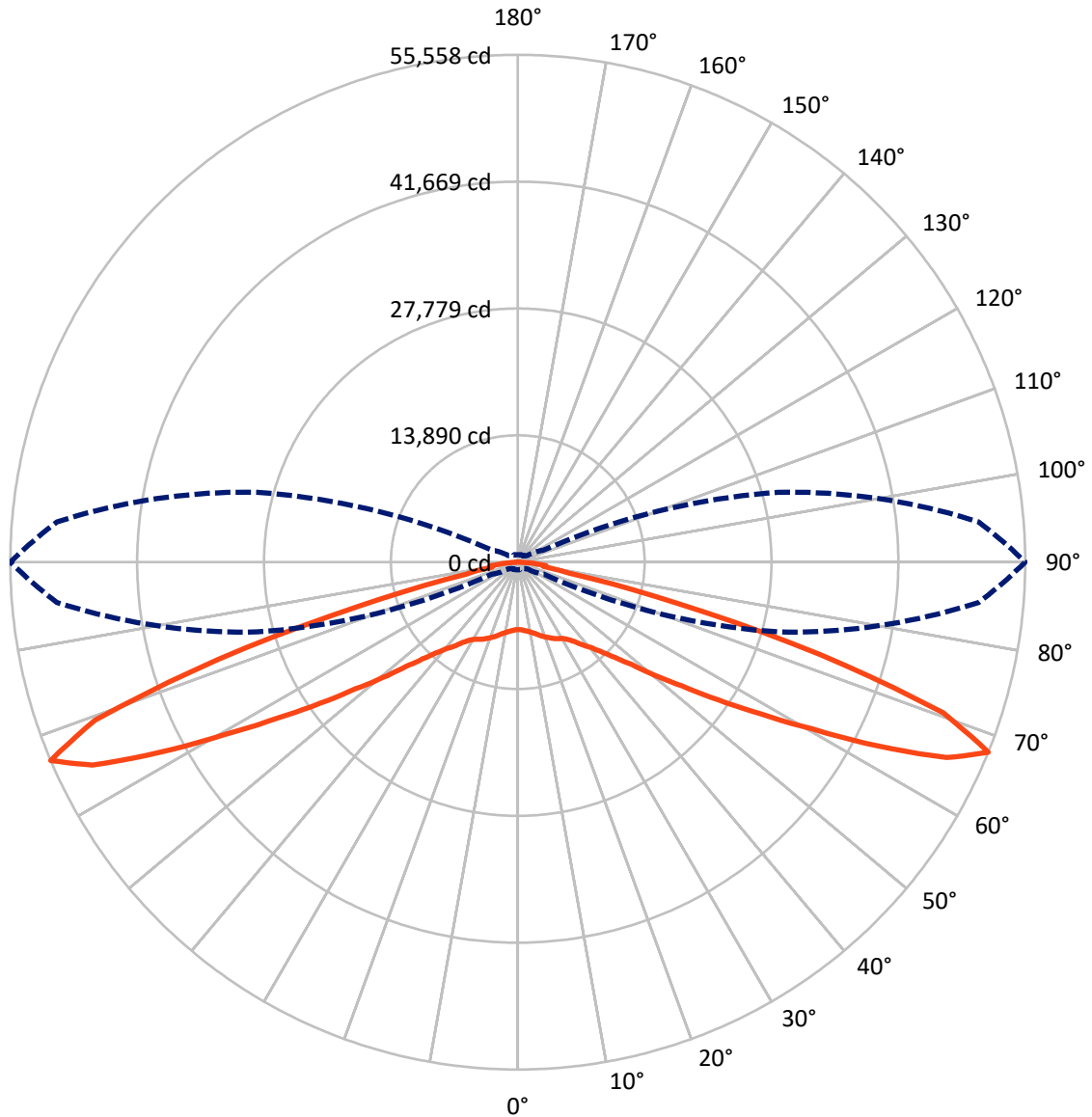
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical



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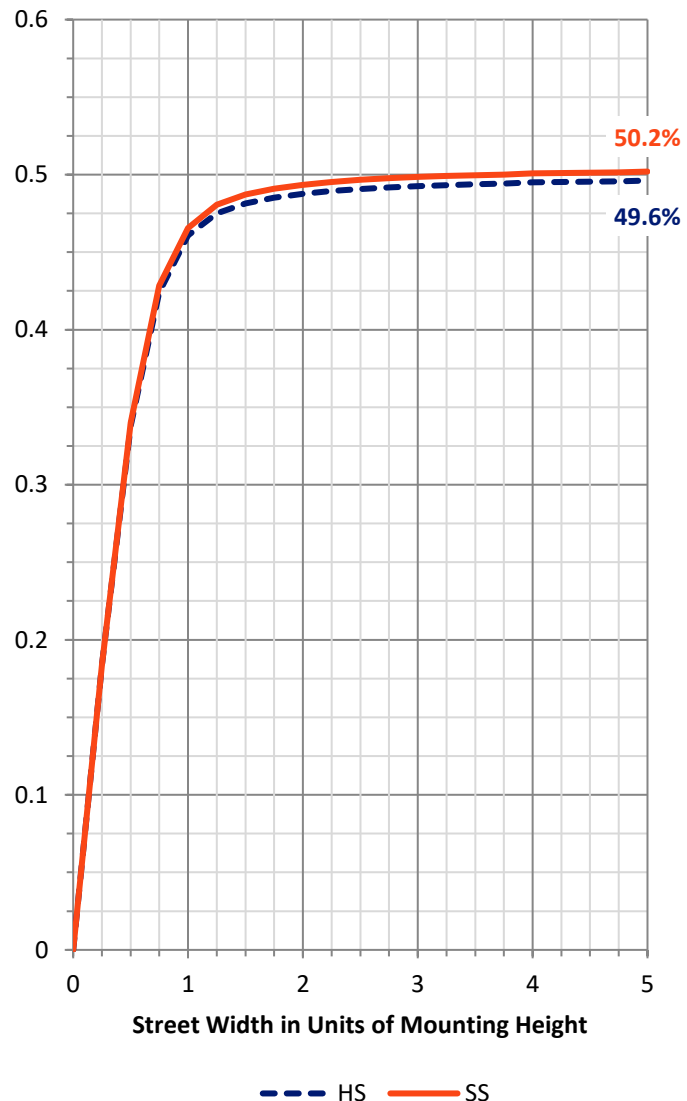
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20886.0	0.0	20886.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	20886.0	0.0	20886.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	41772.0	0.0	41772.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	737.3	1.8
10°-20°	2358.9	5.6
20°-30°	3948.2	9.5
30°-40°	5348.7	12.8
40°-50°	6775.0	16.2
50°-60°	8463.7	20.3
60°-70°	9948.7	23.8
70°-80°	3805.9	9.1
80°-90°	385.6	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°	41772.0	100.0
0°-180°	41772.0	100.0



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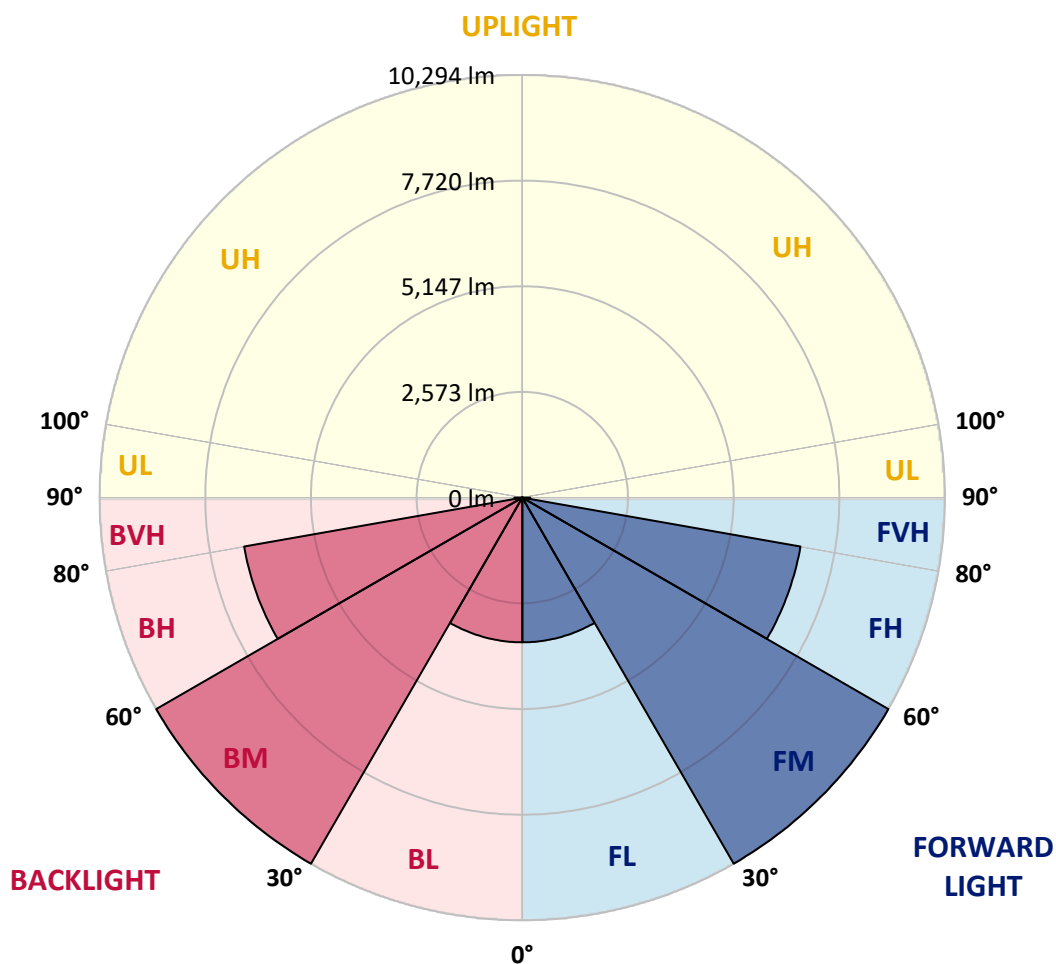
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3522.2	8.4			
FM	(30°-60°)	10293.8	24.6			
FH	(60°-80°)	6877.3	16.5			G3/7500
FVH	(80°-90°)	192.8	0.5			G2/225
BL	(0°-30°)	3522.2	8.4	B4/5000		
BM	(30°-60°)	10293.8	24.6	B5		
BH	(60°-80°)	6877.3	16.5	B5		G5
BVH	(80°-90°)	192.8	0.5			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 I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7394.9	7394.9	7394.9	7394.9	7394.9	7394.9	7394.9	7394.9	7394.9	7394.9	7394.9
2.5°	7489.8	7485.2	7487.5	7485.2	7492.1	7487.5	7459.7	7436.6	7418.1	7420.4	7413.4
5°	7649.4	7651.7	7654.0	7642.4	7658.6	7649.4	7605.4	7568.4	7531.4	7517.5	7512.9
7.5°	7781.2	7792.8	7799.7	7811.3	7839.1	7839.1	7815.9	7762.7	7681.8	7635.5	7633.2
10°	7913.1	7922.3	7943.1	7980.2	8026.4	8070.4	8061.1	7989.4	7885.3	7806.7	7788.2
12.5°	7959.3	7970.9	8040.3	8146.7	8250.8	8336.4	8336.4	8278.5	8144.4	8024.1	7989.4
15°	7797.4	7818.2	7943.1	8169.8	8442.8	8630.1	8671.8	8590.8	8447.4	8262.4	8220.7
17.5°	7475.9	7526.8	7709.5	8044.9	8498.3	8886.9	9007.2	8967.8	8782.8	8546.9	8498.3
20°	7131.3	7186.8	7381.1	7825.2	8452.0	9037.2	9386.5	9395.8	9166.8	8824.4	8752.7
22.5°	6751.9	6793.5	7043.4	7563.8	8313.2	9071.9	9712.7	9872.3	9562.3	9102.0	9000.2
25°	6326.3	6372.6	6633.9	7196.0	8051.9	9032.6	10011.0	10362.6	9976.4	9398.1	9268.5
27.5°	5919.2	5937.7	6217.6	6788.9	7707.2	8930.8	10230.8	10813.7	10434.3	9643.3	9479.0
30°	5528.3	5572.2	5819.7	6384.1	7311.7	8731.9	10420.5	11327.2	10927.0	9900.0	9689.5
32.5°	5114.2	5167.4	5435.8	6007.1	6916.1	8433.5	10536.1	11889.3	11614.0	10316.4	10092.0
35°	4716.4	4751.1	5021.7	5576.9	6529.8	8086.6	10556.9	12523.1	12499.9	10947.8	10649.5
37.5°	4309.3	4360.2	4633.1	5165.1	6120.4	7718.8	10452.8	13196.2	13568.6	11824.5	11503.0
40°	3918.4	3962.3	4230.6	4767.3	5655.5	7270.0	10205.3	13811.5	14815.3	12726.6	12270.9
42.5°	3492.8	3504.3	3798.1	4344.0	5199.8	6749.6	9849.1	14359.7	16205.5	13936.4	13369.7
45°	3009.3	3039.4	3312.3	3849.0	4677.1	6166.7	9365.7	14813.0	17968.1	15613.3	14840.8
47.5°	2525.9	2551.3	2801.2	3330.8	4105.7	5498.2	8620.9	15210.9	19776.9	17743.7	16730.6
50°	2054.0	2067.9	2271.5	2741.0	3462.7	4795.0	7698.0	15338.1	21821.7	20760.0	19467.0
52.5°	1623.8	1644.6	1799.6	2167.4	2775.7	3964.6	6701.0	15023.5	24208.8	24336.0	22513.3
55°	1316.1	1323.1	1438.7	1709.4	2169.7	3094.9	5498.2	14146.9	26776.3	28918.2	26593.6
57.5°	1133.4	1138.0	1202.8	1353.2	1670.1	2333.9	4265.3	12488.4	29082.5	34286.9	31298.4
60°	1029.3	1031.6	1068.6	1156.5	1323.1	1790.3	3055.6	10147.5	31358.5	40261.6	37145.9
62.5°	964.6	964.6	990.0	1038.6	1119.5	1374.0	2213.6	7320.9	32917.6	46324.2	44353.5
65°	902.1	902.1	920.6	955.3	999.3	1124.2	1635.4	4774.2	32878.2	50739.9	51602.7
67.5°	830.4	830.4	844.3	879.0	904.4	966.9	1262.9	3127.3	29533.5	50642.8	55558.1
70°	744.8	744.8	763.3	793.4	814.2	853.5	996.9	2139.6	21696.8	43240.9	49409.9
72.5°	659.2	661.5	673.1	703.2	719.4	742.5	828.1	1498.9	13309.5	29443.3	34548.3
75°	564.4	569.0	580.6	610.7	624.5	633.8	698.6	1068.6	6733.4	15874.7	18074.5
77.5°	455.7	464.9	471.9	504.3	513.5	527.4	576.0	772.6	2956.1	5704.1	5755.0
80°	333.1	344.7	365.5	395.5	402.5	411.7	439.5	548.2	1339.3	2604.5	2828.9
82.5°	245.2	261.4	235.9	275.3	275.3	263.7	310.0	367.8	615.3	2579.1	3085.7
85°	134.2	136.5	122.6	141.1	150.4	148.0	164.2	180.4	298.4	1720.9	1774.1
87.5°	32.4	34.7	37.0	43.9	53.2	53.2	57.8	50.9	97.1	557.5	319.2
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)