

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: P648552

Luminaire Tested: **GALN-SA7B-835-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648552  
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-SA7B-835-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30977.8 lumens  
Efficiency: N/A  
Efficacy: 108.3 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

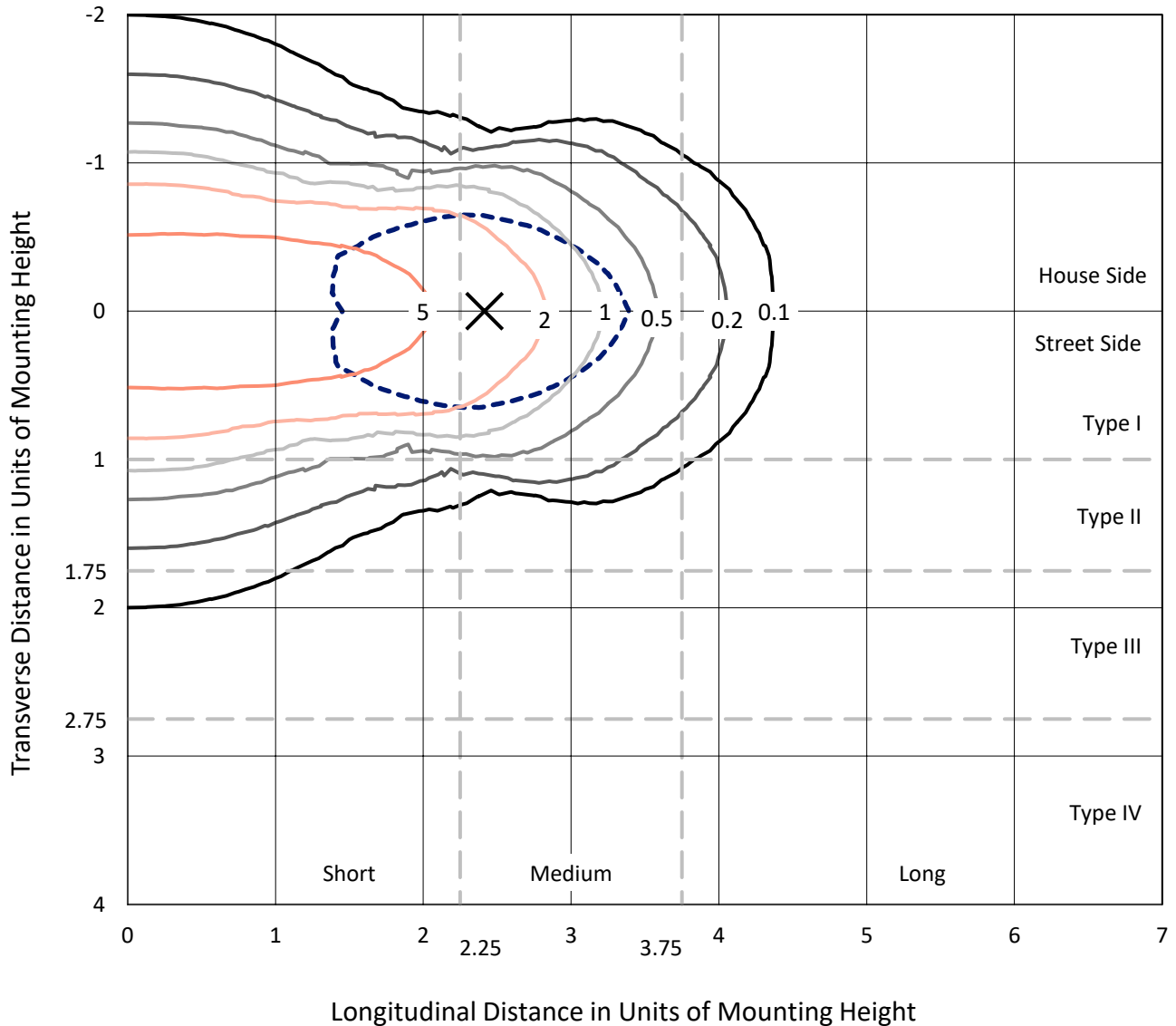
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

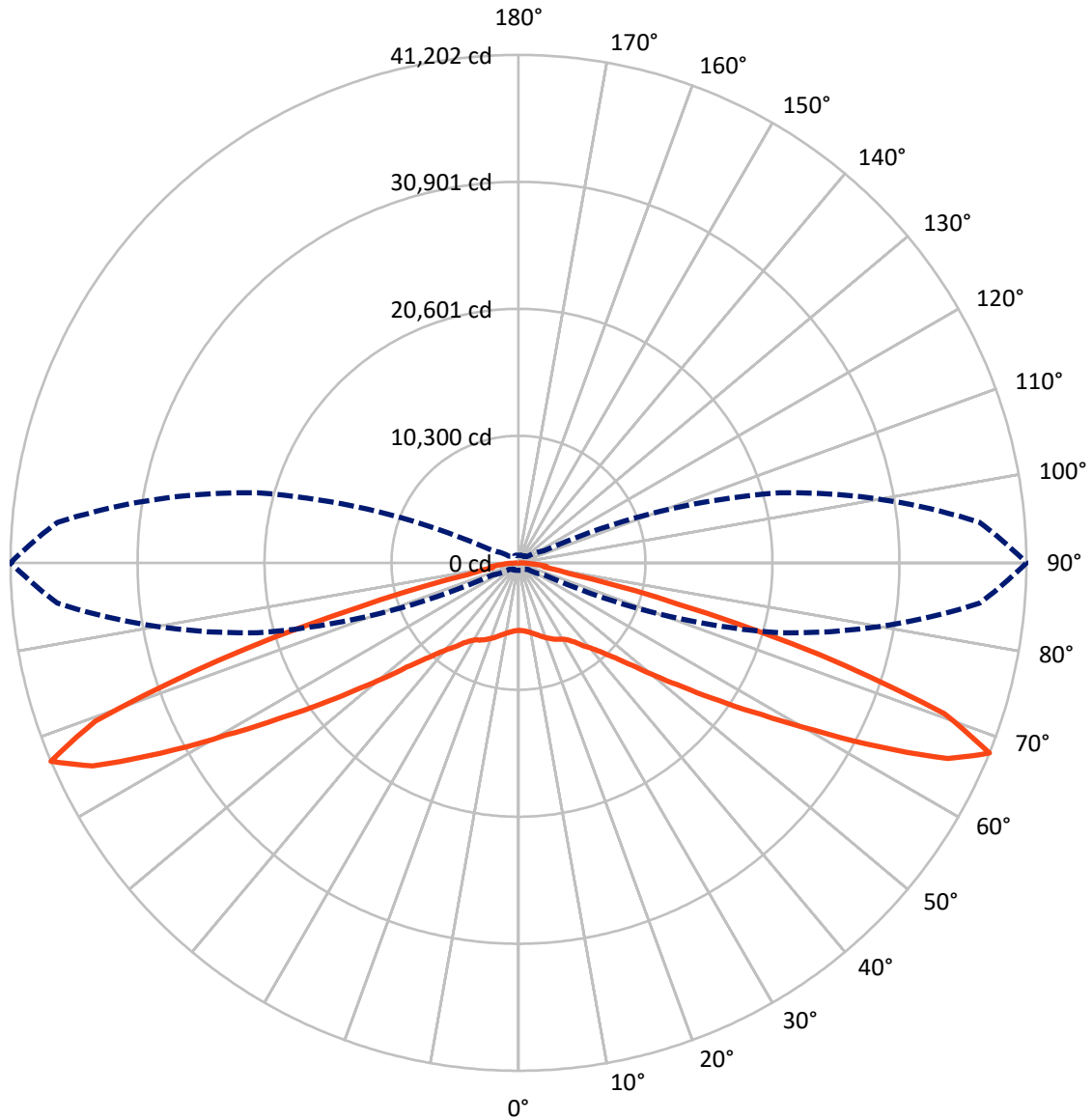
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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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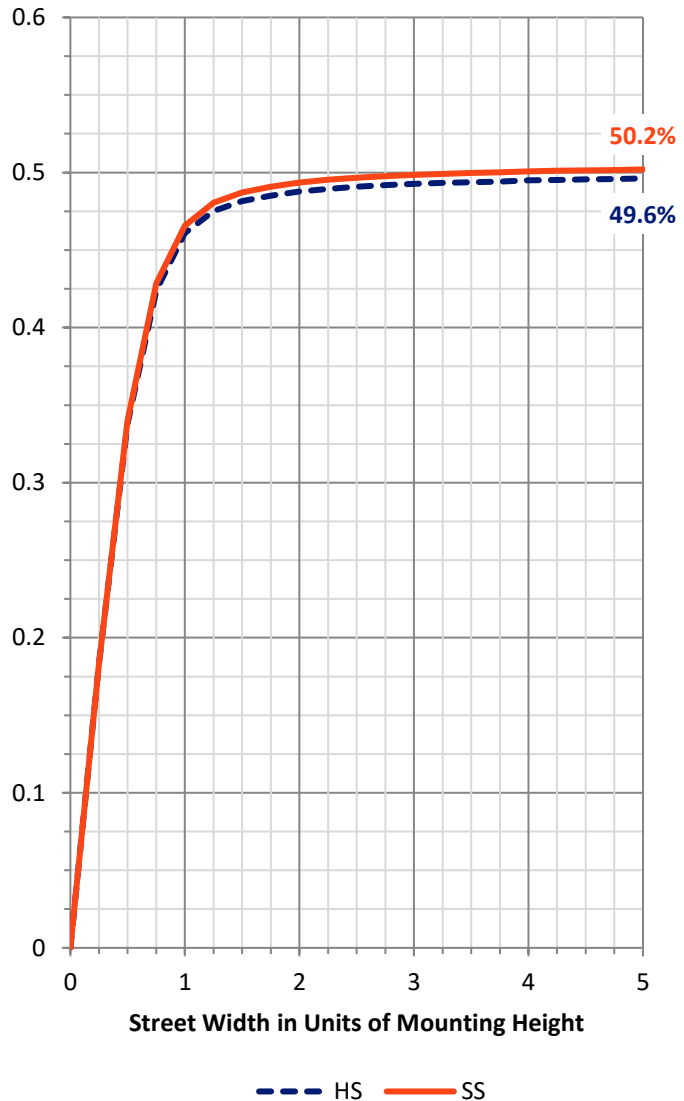
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15488.9	0.0	15488.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15488.9	0.0	15488.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30977.8	0.0	30977.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	546.8	1.8
10°-20°	1749.3	5.6
20°-30°	2927.9	9.5
30°-40°	3966.6	12.8
40°-50°	5024.3	16.2
50°-60°	6276.6	20.3
60°-70°	7377.9	23.8
70°-80°	2822.4	9.1
80°-90°	285.9	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°	30977.8	100.0
0°-180°	30977.8	100.0

**Coefficient of Utilization**



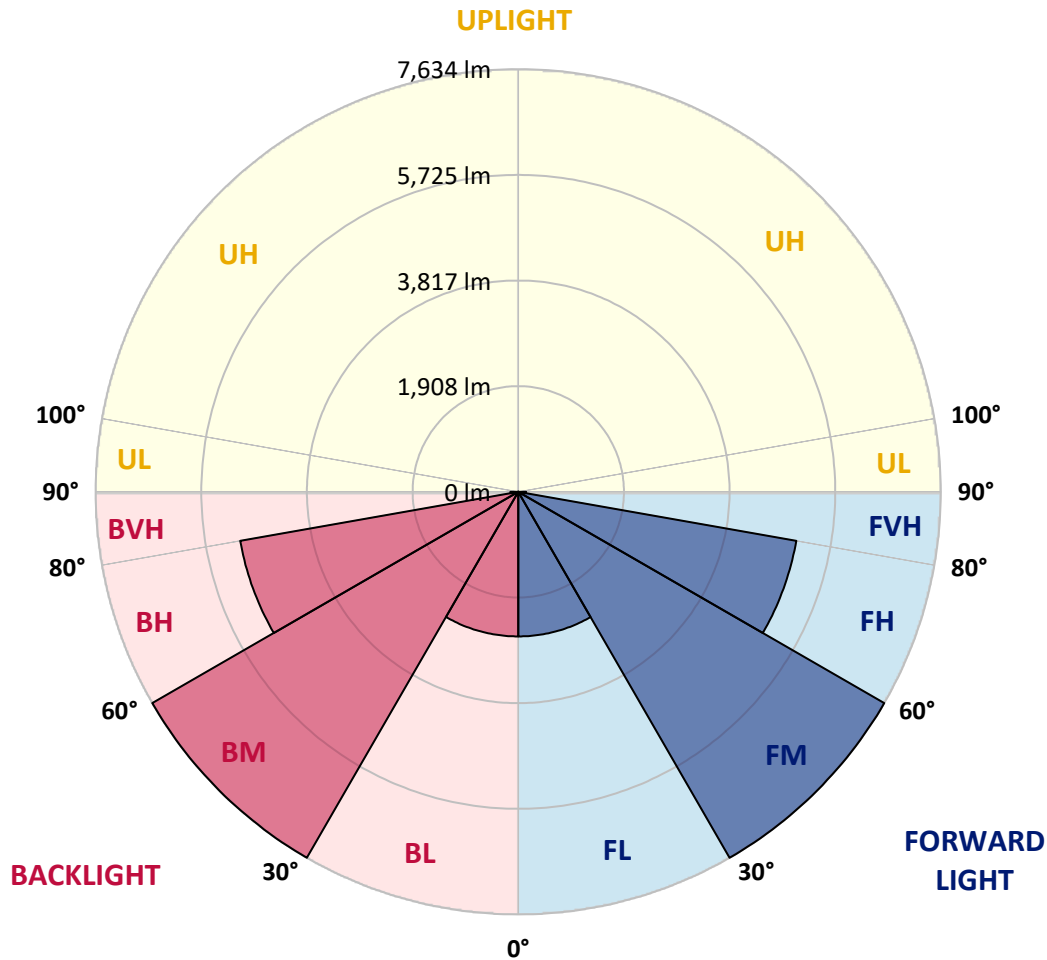
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2612.0	8.4			
FM (30°-60°)	7633.8	24.6			
FH (60°-80°)	5100.2	16.5			G3/7500
FVH (80°-90°)	143.0	0.5			G2/225
BL (0°-30°)	2612.0	8.4	B4/5000		
BM (30°-60°)	7633.8	24.6	B4/8500		
BH (60°-80°)	5100.2	16.5	B5		G5
BVH (80°-90°)	143.0	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°	5484.1	5484.1	5484.1	5484.1	5484.1	5484.1	5484.1	5484.1	5484.1	5484.1	5484.1
2.5°	5554.4	5550.9	5552.6	5550.9	5556.1	5552.6	5532.1	5514.9	5501.2	5502.9	5497.8
5°	5672.8	5674.5	5676.1	5667.6	5679.6	5672.8	5640.1	5612.7	5585.2	5575.0	5571.5
7.5°	5770.5	5779.1	5784.3	5792.8	5813.4	5813.4	5796.2	5756.8	5696.7	5662.4	5660.7
10°	5868.3	5875.2	5890.6	5918.0	5952.4	5984.9	5978.0	5924.9	5847.7	5789.3	5775.6
12.5°	5902.6	5911.2	5962.6	6041.5	6118.8	6182.2	6182.2	6139.3	6039.8	5950.6	5924.9
15°	5782.5	5798.0	5890.6	6058.7	6261.1	6400.1	6430.9	6370.9	6264.5	6127.3	6096.4
17.5°	5544.1	5581.9	5717.3	5966.1	6302.3	6590.4	6679.6	6650.5	6513.2	6338.3	6302.3
20°	5288.5	5329.6	5473.7	5803.1	6268.0	6701.9	6960.9	6967.8	6798.0	6544.2	6491.0
22.5°	5007.1	5038.1	5223.3	5609.3	6165.0	6727.7	7202.8	7321.2	7091.3	6750.0	6674.5
25°	4691.5	4725.9	4919.7	5336.5	5971.2	6698.5	7424.1	7684.8	7398.4	6969.6	6873.5
27.5°	4389.7	4403.4	4610.9	5034.6	5715.6	6623.1	7587.1	8019.3	7738.1	7151.4	7029.6
30°	4099.7	4132.4	4315.9	4734.4	5422.3	6475.5	7727.7	8400.2	8103.4	7341.8	7185.7
32.5°	3792.7	3832.2	4031.1	4454.8	5129.0	6254.2	7813.5	8817.0	8612.8	7650.5	7484.1
35°	3497.7	3523.3	3724.1	4135.7	4842.5	5996.9	7829.0	9287.0	9269.9	8118.8	7897.6
37.5°	3195.7	3233.5	3435.9	3830.4	4538.9	5724.2	7751.8	9786.2	10062.3	8769.0	8530.6
40°	2905.9	2938.4	3137.4	3535.4	4194.1	5391.4	7568.2	10242.5	10987.0	9438.0	9100.0
42.5°	2590.2	2598.8	2816.6	3221.5	3856.1	5005.5	7304.1	10649.0	12017.9	10335.1	9914.8
45°	2231.7	2254.0	2456.4	2854.3	3468.5	4573.2	6945.5	10985.3	13325.0	11578.8	11005.8
47.5°	1873.2	1892.0	2077.3	2470.1	3044.8	4077.5	6393.2	11280.3	14666.5	13158.6	12407.3
50°	1523.2	1533.5	1684.5	2032.7	2567.9	3556.0	5708.8	11374.6	16182.8	15395.4	14436.6
52.5°	1204.2	1219.6	1334.5	1607.3	2058.4	2940.2	4969.5	11141.3	17953.1	18047.4	16695.7
55°	976.0	981.2	1067.0	1267.7	1609.0	2295.1	4077.5	10491.2	19857.1	21445.6	19721.7
57.5°	840.6	844.0	892.0	1003.5	1238.5	1730.8	3163.2	9261.3	21567.3	25426.9	23210.7
60°	763.3	765.1	792.5	857.7	981.2	1327.7	2266.0	7525.3	23255.3	29857.7	27547.1
62.5°	715.3	715.3	734.1	770.2	830.2	1018.9	1641.6	5429.2	24411.4	34353.7	32892.3
65°	669.0	669.0	682.7	708.5	741.0	833.7	1212.8	3540.5	24382.3	37628.4	38268.2
67.5°	615.8	615.8	626.1	651.8	670.7	717.0	936.6	2319.2	21901.8	37556.4	41201.5
70°	552.3	552.3	566.1	588.3	603.8	633.0	739.3	1586.7	16090.2	32067.1	36642.1
72.5°	488.9	490.6	499.2	521.5	533.5	550.6	614.1	1111.5	9870.3	21835.0	25620.8
75°	418.5	422.0	430.6	452.9	463.1	470.0	518.0	792.5	4993.4	11772.6	13403.9
77.5°	337.9	344.8	349.9	374.0	380.9	391.1	427.1	572.9	2192.2	4230.1	4267.8
80°	247.0	255.6	271.0	293.3	298.5	305.4	325.9	406.5	993.2	1931.5	2097.9
82.5°	181.8	193.9	175.0	204.1	204.1	195.5	229.9	272.7	456.3	1912.6	2288.3
85°	99.5	101.2	90.9	104.6	111.5	109.8	121.8	133.8	221.3	1276.2	1315.7
87.5°	24.0	25.8	27.5	32.6	39.5	39.5	42.9	37.7	72.0	413.4	236.7
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)