

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: P456064

Luminaire Tested: **GALN-SA7B-740-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456064  
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-740-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39563 lumens  
Efficiency: N/A  
Efficacy: 138.3 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

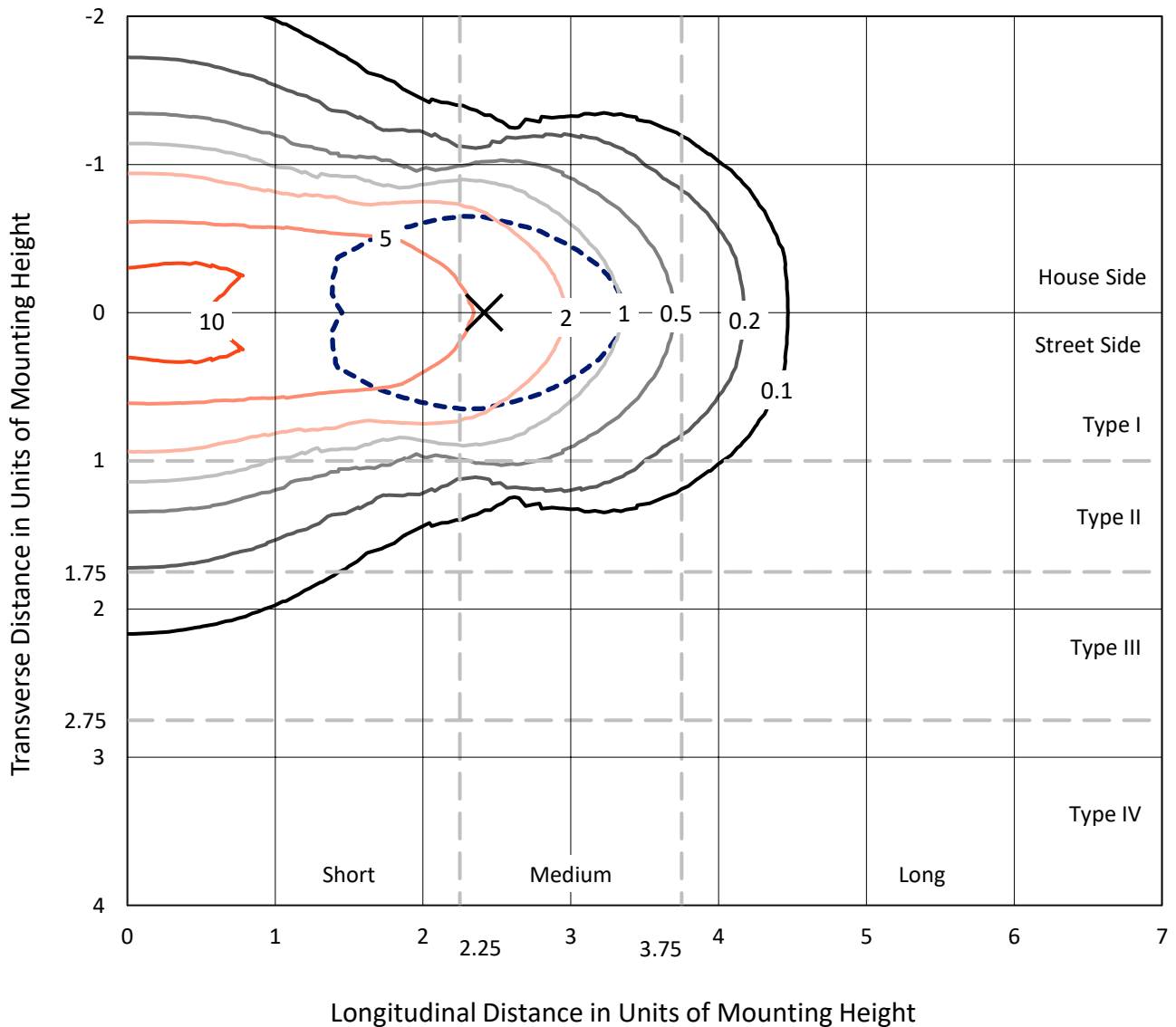
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

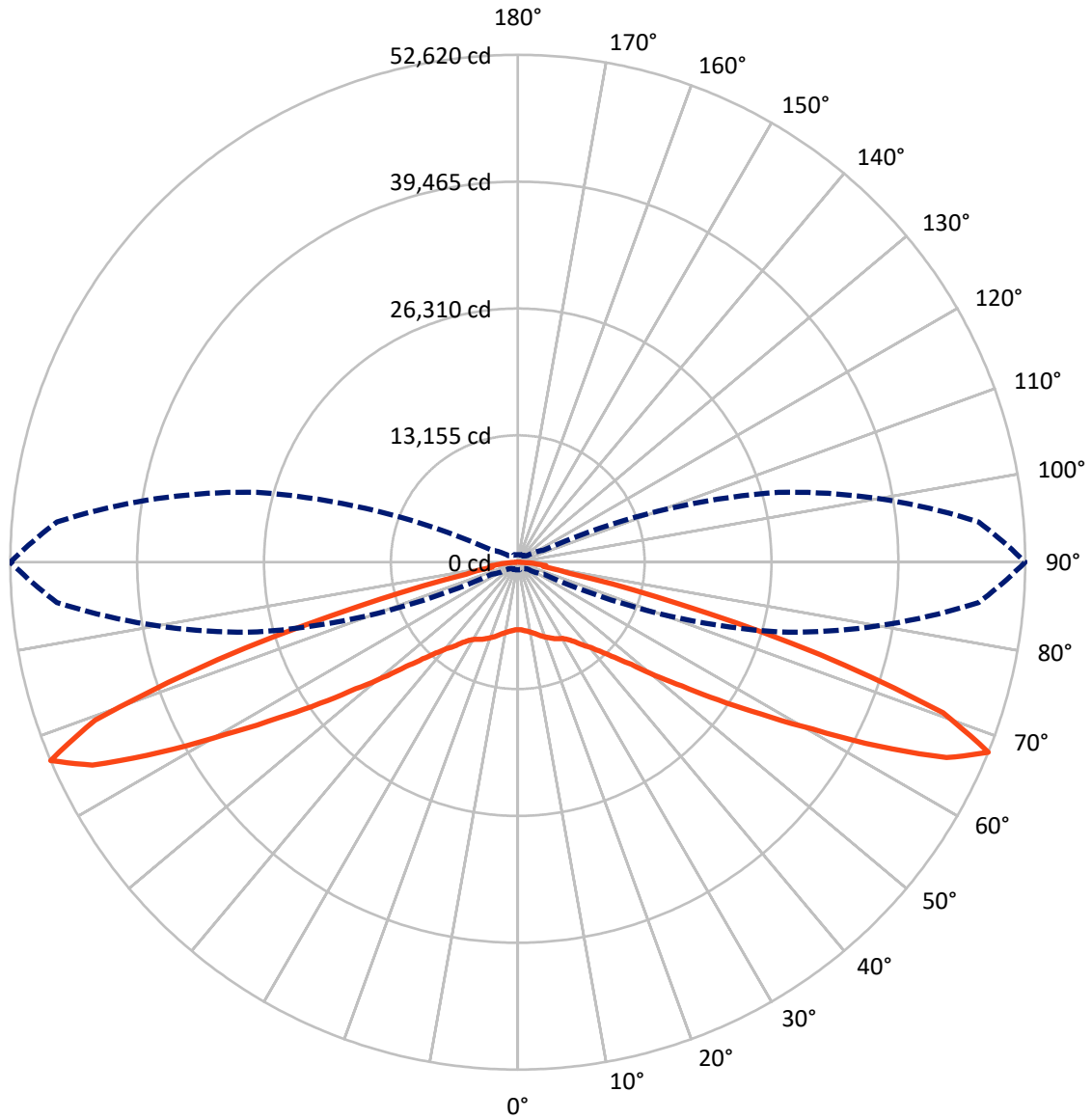
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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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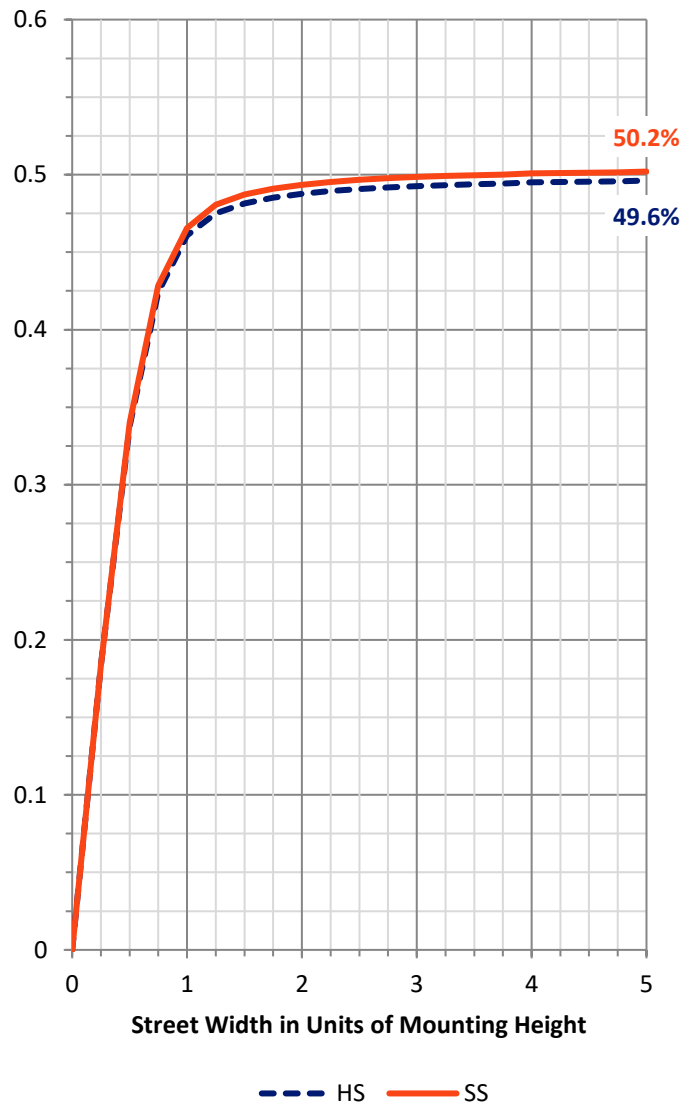
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19781.5	0.0	19781.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	19781.5	0.0	19781.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	39563.0	0.0	39563.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	698.3	1.8
10°-20°	2234.1	5.6
20°-30°	3739.4	9.5
30°-40°	5065.9	12.8
40°-50°	6416.8	16.2
50°-60°	8016.2	20.3
60°-70°	9422.6	23.8
70°-80°	3604.6	9.1
80°-90°	365.2	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°	39563.0	100.0
0°-180°	39563.0	100.0



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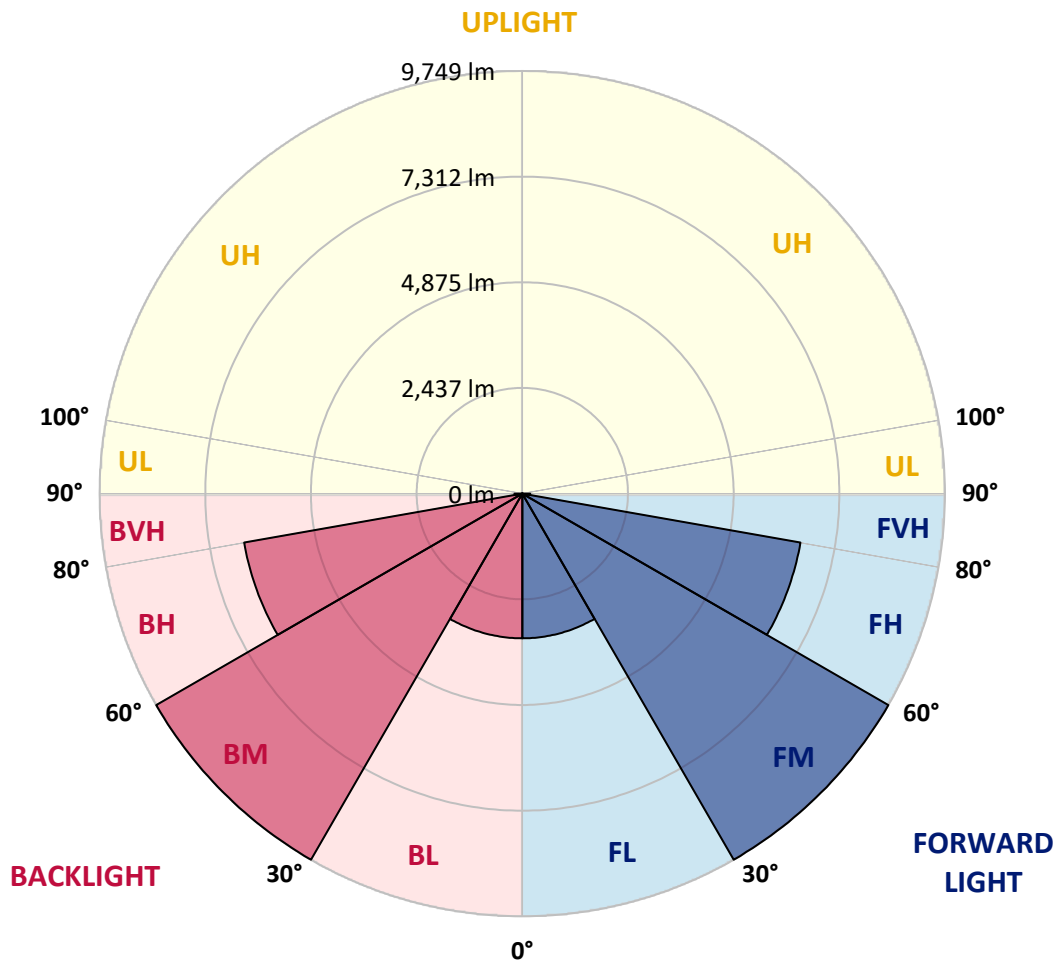
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3335.9	8.4			
FM (30°-60°)	9749.4	24.6			
FH (60°-80°)	6513.6	16.5			G3/7500
FVH (80°-90°)	182.6	0.5			G2/225
BL (0°-30°)	3335.9	8.4	B4/5000		
BM (30°-60°)	9749.4	24.6	B5		
BH (60°-80°)	6513.6	16.5	B5		G5
BVH (80°-90°)	182.6	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°	7003.9	7003.9	7003.9	7003.9	7003.9	7003.9	7003.9	7003.9	7003.9	7003.9	7003.9
2.5°	7093.7	7089.3	7091.5	7089.3	7095.9	7091.5	7065.2	7043.3	7025.8	7028.0	7021.4
5°	7244.9	7247.1	7249.2	7238.3	7253.6	7244.9	7203.2	7168.2	7133.1	7120.0	7115.6
7.5°	7369.7	7380.7	7387.3	7398.2	7424.5	7424.5	7402.6	7352.2	7275.5	7231.7	7229.5
10°	7494.6	7503.4	7523.1	7558.1	7602.0	7643.6	7634.8	7566.9	7468.3	7393.8	7376.3
12.5°	7538.4	7549.4	7615.1	7715.9	7814.5	7895.5	7895.5	7840.8	7713.7	7599.8	7566.9
15°	7385.1	7404.8	7523.1	7737.8	7996.3	8173.8	8213.2	8136.5	8000.7	7825.4	7786.0
17.5°	7080.6	7128.8	7301.8	7619.5	8048.9	8416.9	8530.8	8493.6	8318.3	8094.9	8048.9
20°	6754.1	6806.7	6990.7	7411.4	8005.1	8559.3	8890.1	8898.9	8682.0	8357.8	8289.9
22.5°	6394.8	6434.3	6670.9	7163.8	7873.6	8592.2	9199.0	9350.2	9056.6	8620.7	8524.3
25°	5991.7	6035.6	6283.1	6815.5	7626.1	8554.9	9481.6	9814.6	9448.8	8901.1	8778.4
27.5°	5606.2	5623.7	5888.8	6429.9	7299.6	8458.6	9689.8	10241.8	9882.6	9133.3	8977.8
30°	5235.9	5277.6	5512.0	6046.5	6925.0	8270.1	9869.4	10728.2	10349.2	9376.5	9177.1
32.5°	4843.8	4894.2	5148.3	5689.4	6550.4	7987.5	9978.9	11260.5	10999.8	9770.8	9558.3
35°	4467.0	4499.8	4756.2	5281.9	6184.5	7658.9	9998.7	11860.8	11838.9	10368.9	10086.3
37.5°	4081.4	4129.6	4388.1	4892.0	5796.8	7310.6	9900.1	12498.3	12851.0	11199.2	10894.7
40°	3711.2	3752.8	4006.9	4515.2	5356.4	6885.6	9665.7	13081.1	14031.9	12053.6	11622.0
42.5°	3308.1	3319.0	3597.2	4114.3	4924.8	6392.7	9328.3	13600.3	15348.5	13199.4	12662.6
45°	2850.2	2878.7	3137.2	3645.4	4429.7	5840.6	8870.4	14029.7	17017.9	14787.7	14056.0
47.5°	2392.3	2416.4	2653.0	3154.7	3888.6	5207.5	8165.0	14406.5	18731.1	16805.4	15845.8
50°	1945.4	1958.5	2151.3	2596.1	3279.6	4541.5	7290.9	14527.0	20667.7	19662.1	18437.5
52.5°	1537.9	1557.6	1704.4	2052.7	2628.9	3755.0	6346.7	14229.0	22928.6	23049.1	21322.7
55°	1246.5	1253.1	1362.7	1619.0	2054.9	2931.2	5207.5	13398.7	25360.3	27389.0	25187.3
57.5°	1073.5	1077.9	1139.2	1281.6	1581.7	2210.5	4039.8	11828.0	27544.5	32473.7	29643.3
60°	974.9	977.1	1012.1	1095.4	1253.1	1695.7	2894.0	9610.9	29700.2	38132.5	35181.5
62.5°	913.5	913.5	937.6	983.7	1060.3	1301.3	2096.6	6933.8	31176.8	43874.5	42008.0
65°	854.4	854.4	871.9	904.8	946.4	1064.7	1548.9	4521.7	31139.6	48056.7	48873.8
67.5°	786.5	786.5	799.6	832.5	856.6	915.7	1196.2	2961.9	27971.7	47964.7	52620.0
70°	705.4	705.4	723.0	751.4	771.2	808.4	944.2	2026.5	20549.4	40954.2	46797.0
72.5°	624.4	626.6	637.5	666.0	681.3	703.2	784.3	1419.6	12605.7	27886.3	32721.3
75°	534.5	538.9	549.9	578.4	591.5	600.3	661.6	1012.1	6377.3	15035.2	17118.7
77.5°	431.6	440.3	446.9	477.6	486.4	499.5	545.5	731.7	2799.8	5402.4	5450.6
80°	315.5	326.4	346.1	374.6	381.2	390.0	416.2	519.2	1268.5	2466.8	2679.3
82.5°	232.2	247.6	223.5	260.7	260.7	249.7	293.6	348.3	582.7	2442.7	2922.5
85°	127.1	129.3	116.1	133.6	142.4	140.2	155.5	170.9	282.6	1629.9	1680.3
87.5°	30.7	32.9	35.1	41.6	50.4	50.4	54.8	48.2	92.0	528.0	302.3
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)