

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: P652567

Luminaire Tested: **GALN-SA8B-840-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652567  
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-840-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 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: 38574.1 lumens  
Efficiency: N/A  
Efficacy: 118.7 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

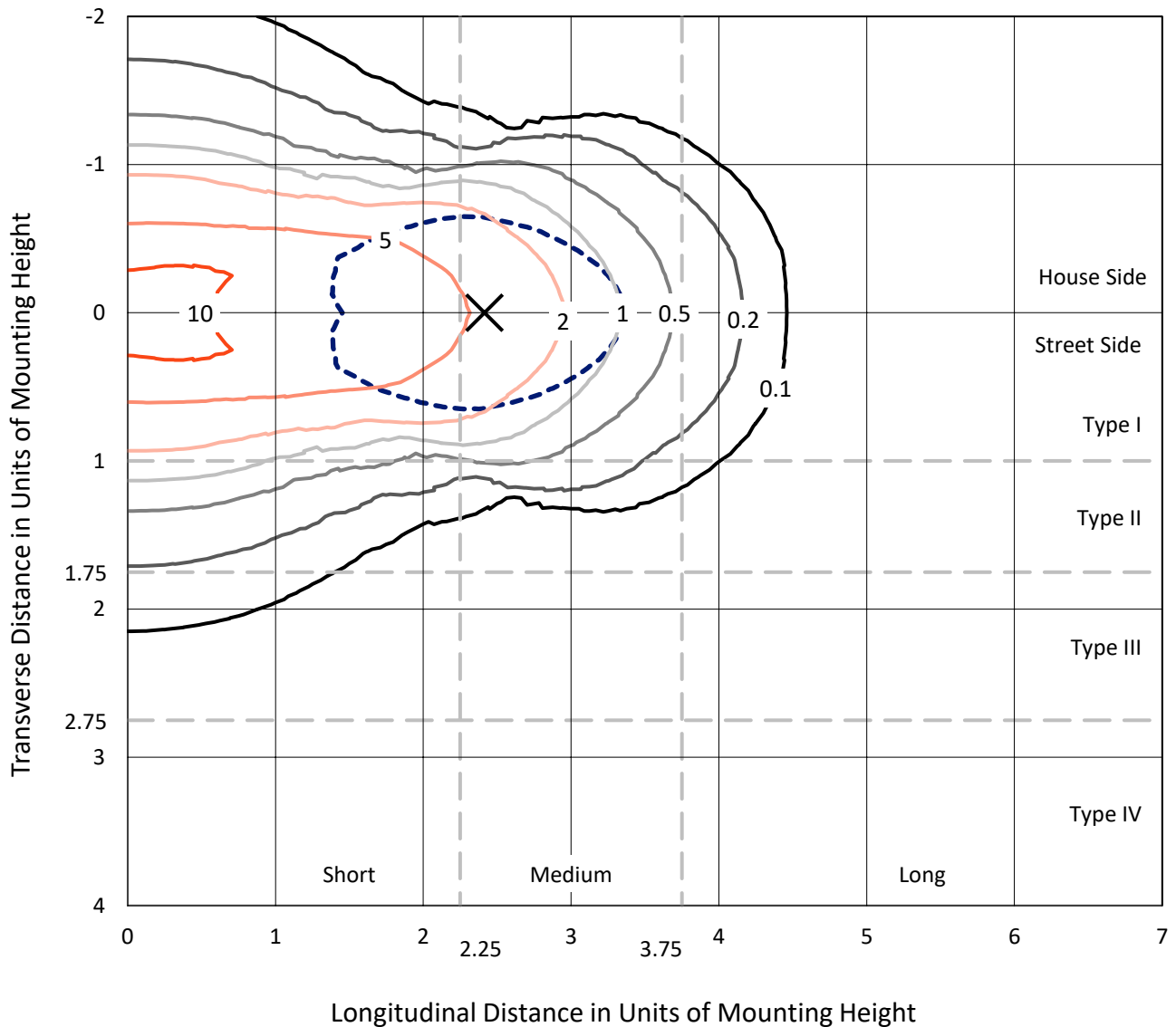
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

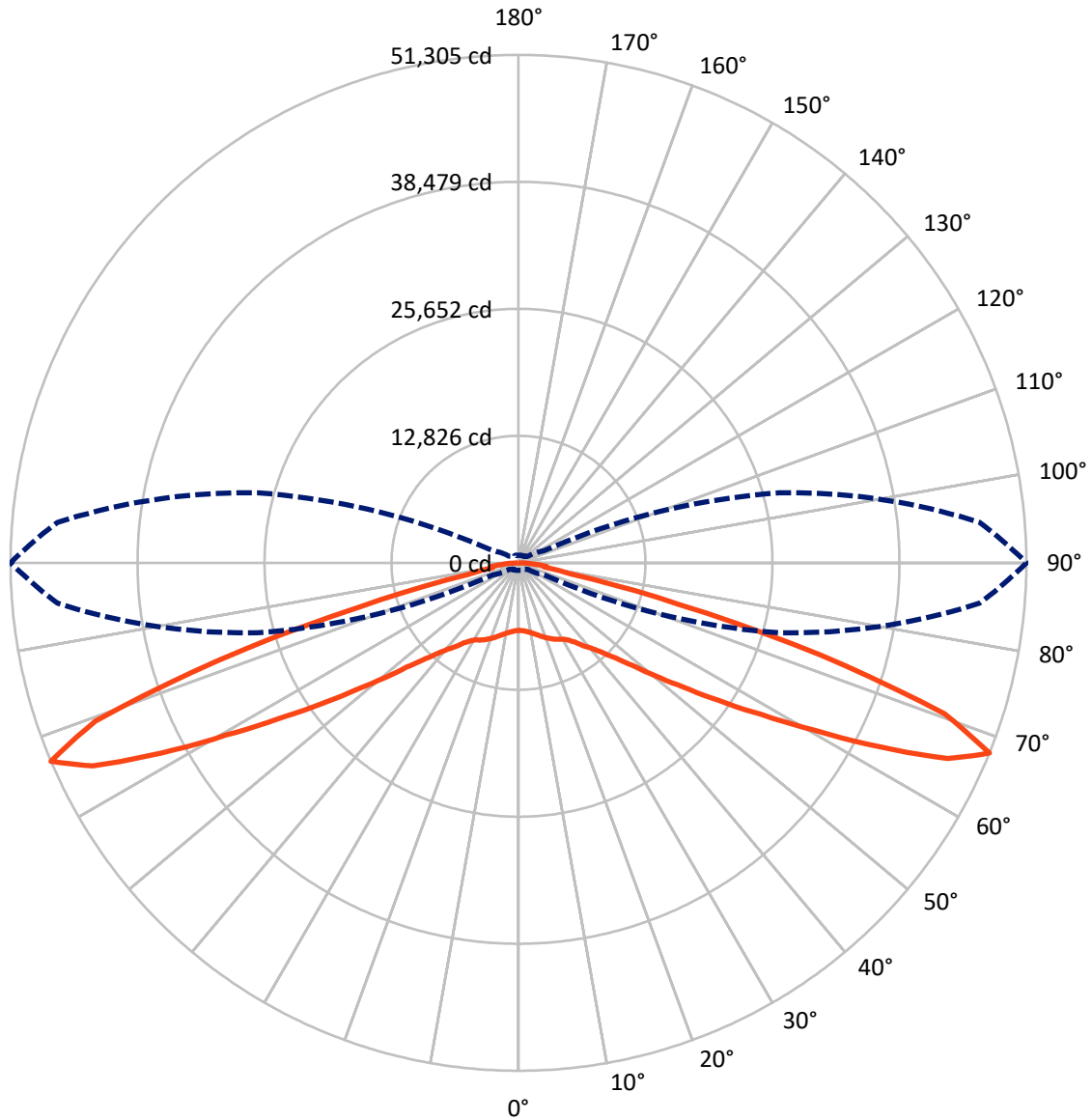
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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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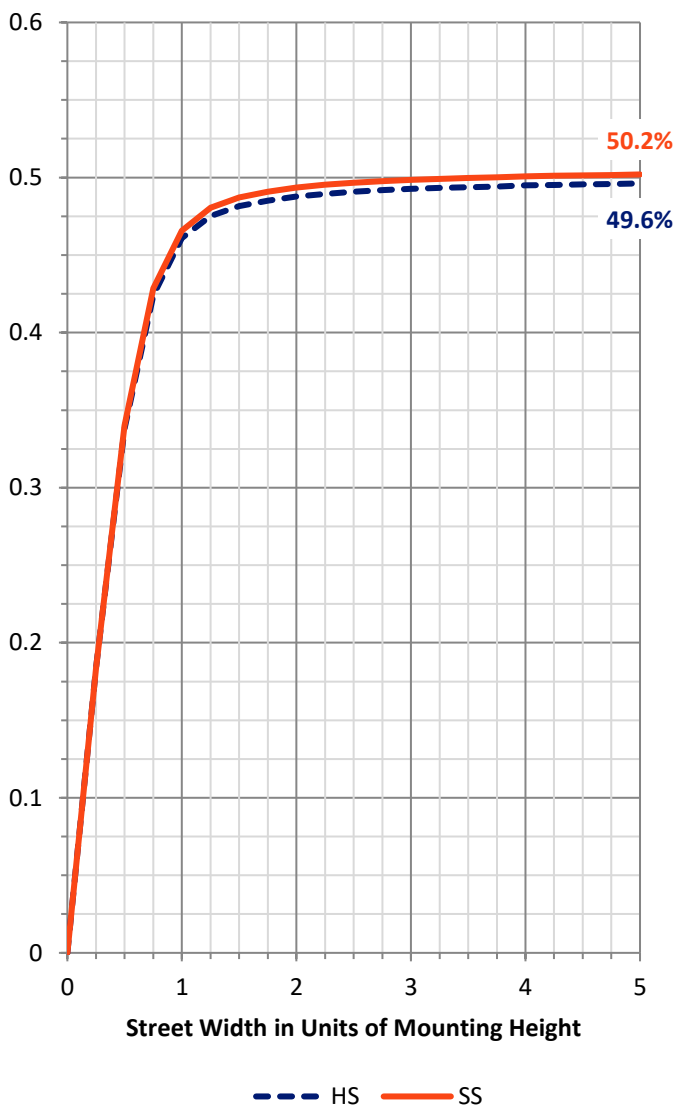
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19287.1	0.0	19287.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	19287.1	0.0	19287.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	38574.1	0.0	38574.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	680.8	1.8
10°-20°	2178.3	5.6
20°-30°	3645.9	9.5
30°-40°	4939.3	12.8
40°-50°	6256.4	16.2
50°-60°	7815.8	20.3
60°-70°	9187.1	23.8
70°-80°	3514.5	9.1
80°-90°	356.0	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°	38574.1	100.0
0°-180°	38574.1	100.0

**Coefficient of Utilization**

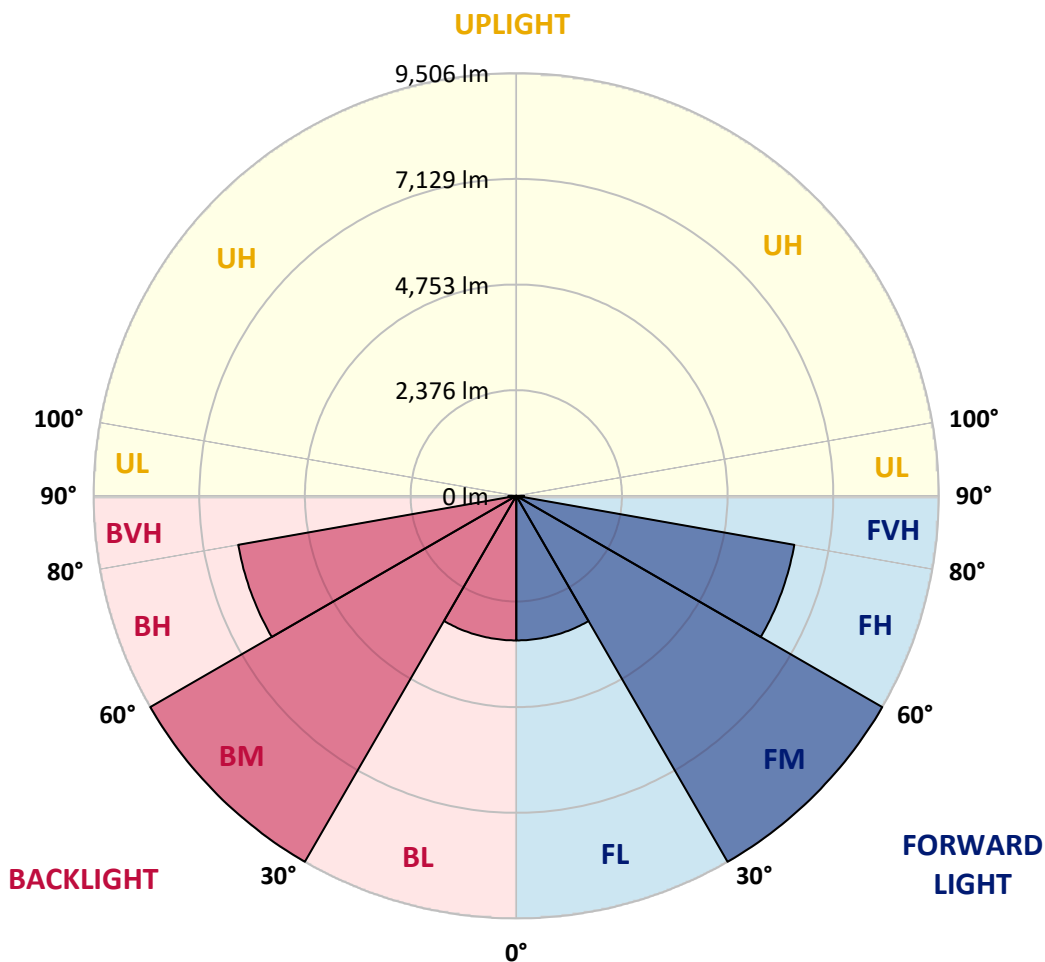


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3252.5	8.4			
FM (30°-60°)	9505.7	24.6			
FH (60°-80°)	6350.8	16.5			G3/7500
FVH (80°-90°)	178.0	0.5			G2/225
BL (0°-30°)	3252.5	8.4	B4/5000		
BM (30°-60°)	9505.7	24.6	B5		
BH (60°-80°)	6350.8	16.5	B5		G5
BVH (80°-90°)	178.0	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°	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8	6828.8
2.5°	6916.4	6912.1	6914.3	6912.1	6918.6	6914.3	6888.6	6867.3	6850.2	6852.3	6845.9
5°	7063.8	7065.9	7068.0	7057.4	7072.3	7063.8	7023.2	6989.0	6954.8	6942.0	6937.7
7.5°	7185.5	7196.2	7202.7	7213.3	7238.9	7238.9	7217.5	7168.4	7093.7	7050.9	7048.8
10°	7307.3	7315.9	7335.0	7369.3	7412.0	7452.5	7444.0	7377.8	7281.6	7209.1	7192.0
12.5°	7350.0	7360.7	7424.8	7523.0	7619.1	7698.2	7698.2	7644.8	7520.9	7409.8	7377.8
15°	7200.5	7219.7	7335.0	7544.4	7796.4	7969.5	8007.9	7933.2	7800.7	7629.8	7591.4
17.5°	6903.6	6950.6	7119.3	7429.1	7847.7	8206.6	8317.7	8281.3	8110.4	7892.5	7847.7
20°	6585.3	6636.6	6816.0	7226.1	7805.0	8345.4	8667.9	8676.5	8465.0	8148.9	8082.7
22.5°	6235.0	6273.4	6504.1	6984.8	7676.8	8377.5	8969.1	9116.5	8830.2	8405.2	8311.2
25°	5842.0	5884.7	6126.1	6645.2	7435.4	8341.1	9244.7	9569.3	9212.7	8678.6	8559.0
27.5°	5466.1	5483.2	5741.6	6269.2	7117.2	8247.1	9447.5	9985.9	9635.5	8905.0	8753.4
30°	5105.0	5145.7	5374.2	5895.4	6752.0	8063.4	9622.7	10460.0	10090.5	9142.1	8947.7
32.5°	4722.7	4771.8	5019.6	5547.2	6386.6	7787.9	9729.5	10979.1	10724.9	9526.6	9319.4
35°	4355.3	4387.3	4637.3	5149.9	6030.0	7467.5	9748.8	11564.3	11543.0	10109.7	9834.2
37.5°	3979.4	4026.4	4278.4	4769.7	5651.9	7127.9	9652.7	12185.9	12529.8	10919.3	10622.4
40°	3618.4	3659.0	3906.8	4402.3	5222.5	6713.5	9424.1	12754.1	13681.1	11752.3	11331.5
42.5°	3225.4	3236.1	3507.3	4011.4	4801.8	6232.9	9095.2	13260.4	14964.9	12869.5	12346.1
45°	2778.9	2806.8	3058.8	3554.3	4319.0	5694.6	8648.7	13679.0	16592.5	14418.1	13704.7
47.5°	2332.5	2356.0	2586.7	3075.9	3791.4	5077.3	7960.9	14046.4	18262.9	16385.4	15449.8
50°	1896.8	1909.6	2097.5	2531.2	3197.6	4427.9	7108.6	14163.9	20151.1	19170.7	17976.6
52.5°	1499.5	1518.7	1661.8	2001.4	2563.2	3661.1	6188.0	13873.4	22355.5	22472.9	20789.8
55°	1215.4	1221.8	1328.6	1578.5	2003.6	2858.0	5077.3	13063.8	24726.5	26704.4	24557.7
57.5°	1046.6	1050.9	1110.7	1249.6	1542.2	2155.2	3938.8	11532.3	26856.1	31662.1	28902.4
60°	950.5	952.7	986.8	1068.0	1221.8	1653.2	2821.6	9370.7	28957.9	37179.4	34302.2
62.5°	890.7	890.7	914.3	959.1	1033.8	1268.8	2044.1	6760.5	30397.5	42777.9	40958.0
65°	833.0	833.0	850.2	882.2	922.7	1038.1	1510.2	4408.7	30361.3	46855.6	47652.2
67.5°	766.8	766.8	779.6	811.6	835.2	892.9	1166.3	2887.9	27272.6	46765.8	51304.9
70°	687.8	687.8	704.8	732.7	751.9	788.2	920.6	1975.8	20035.8	39930.6	45627.3
72.5°	608.8	610.9	621.6	649.3	664.3	685.7	764.7	1384.1	12290.6	27189.3	31903.4
75°	521.2	525.5	536.1	563.9	576.8	585.3	645.0	986.8	6217.9	14659.5	16690.8
77.5°	420.8	429.3	435.7	465.7	474.2	487.0	531.8	713.4	2729.8	5267.4	5314.4
80°	307.6	318.2	337.5	365.2	371.6	380.2	405.9	506.2	1236.8	2405.2	2612.3
82.5°	226.4	241.4	217.9	254.2	254.2	243.5	286.2	339.6	568.2	2381.6	2849.5
85°	123.9	126.1	113.2	130.3	138.8	136.7	151.6	166.6	275.5	1589.2	1638.4
87.5°	29.9	32.0	34.1	40.6	49.1	49.1	53.4	47.0	89.7	514.8	294.8
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)