

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: P650807

Luminaire Tested: **GALN-SA3C-840-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650807
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-SA3C-840-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17619 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

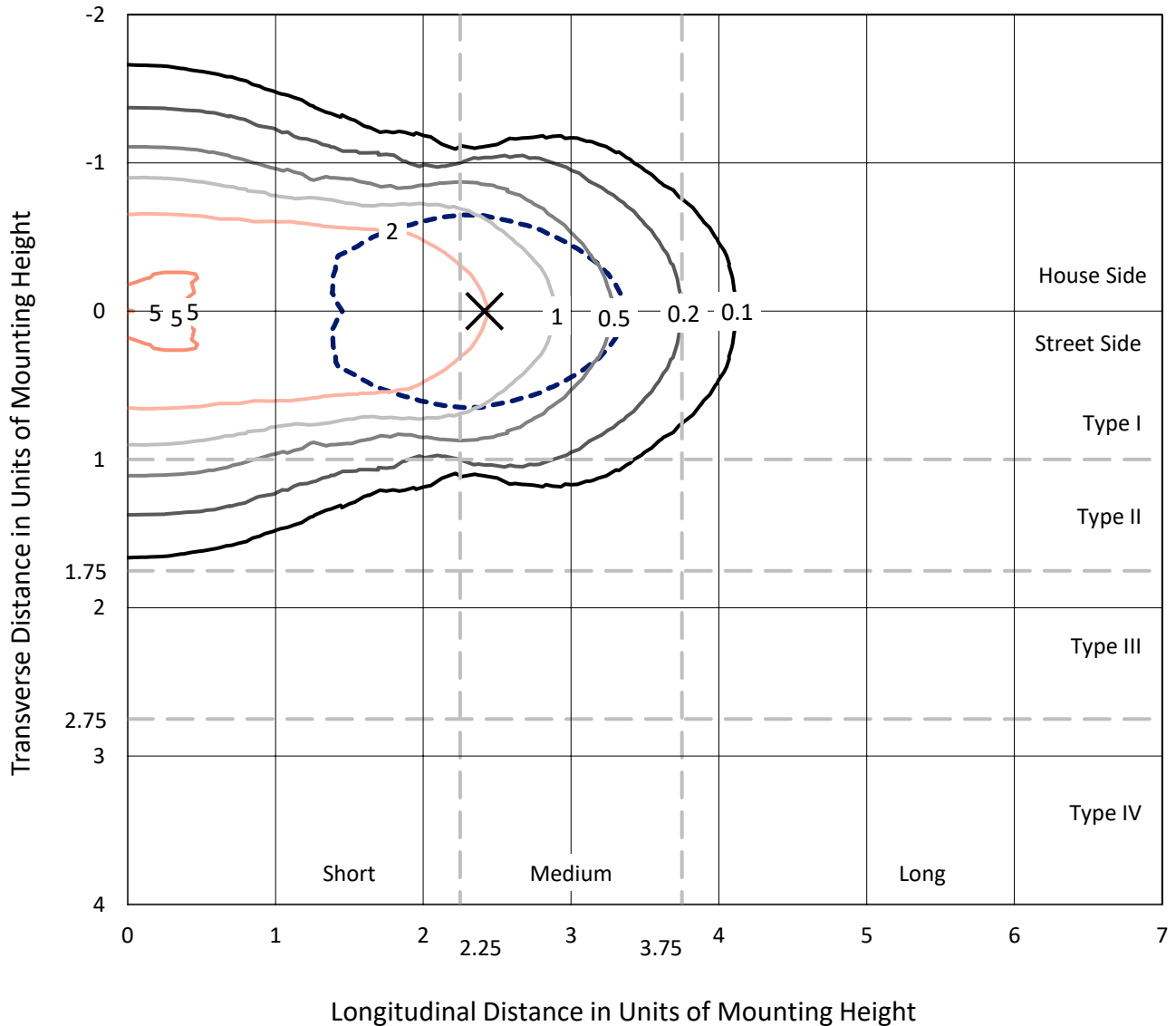
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

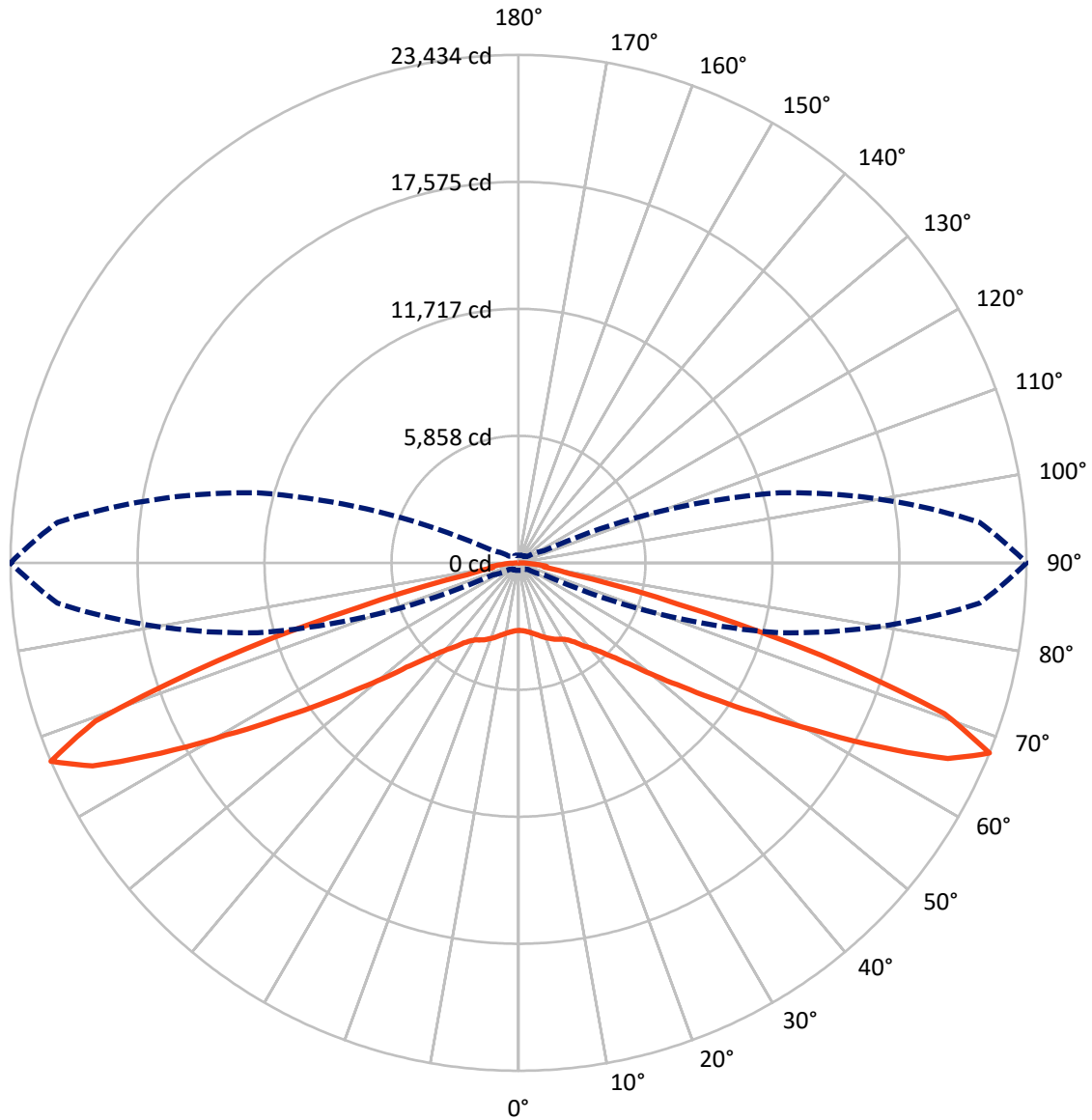
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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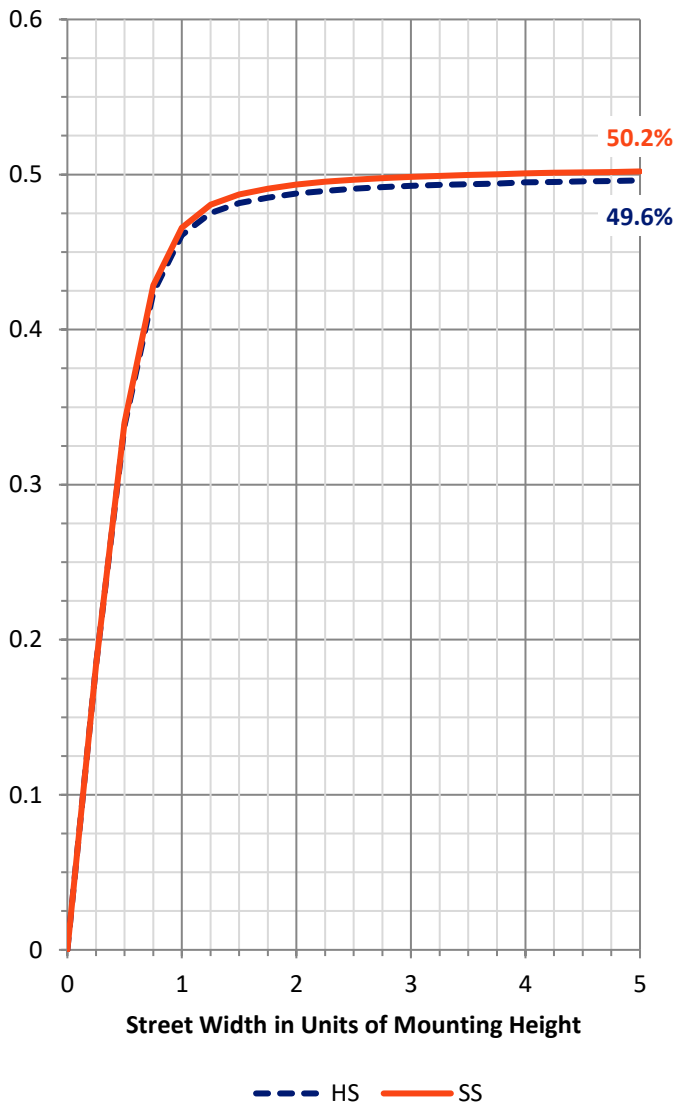
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8809.5	0.0	8809.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8809.5	0.0	8809.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17619.0	0.0	17619.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.0	1.8
10°-20°	994.9	5.6
20°-30°	1665.3	9.5
30°-40°	2256.0	12.8
40°-50°	2857.6	16.2
50°-60°	3569.9	20.3
60°-70°	4196.3	23.8
70°-80°	1605.3	9.1
80°-90°	162.6	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°	17619.0	100.0
0°-180°	17619.0	100.0

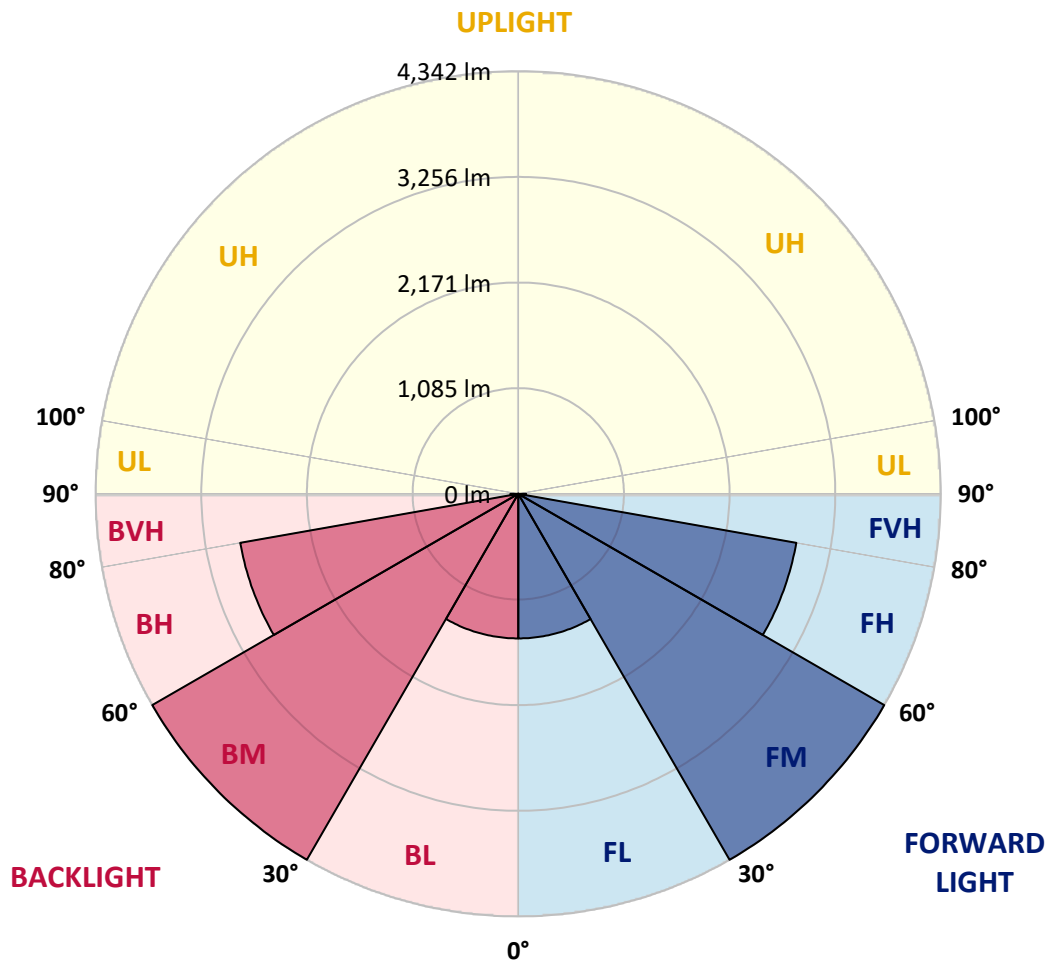


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1485.6	8.4			
FM (30°-60°)	4341.8	24.6			
FH (60°-80°)	2900.8	16.5			G2/5000
FVH (80°-90°)	81.3	0.5			G1/100
BL (0°-30°)	1485.6	8.4	B3/2500		
BM (30°-60°)	4341.8	24.6	B3/5000		
BH (60°-80°)	2900.8	16.5	B4/5000		G4/5000
BVH (80°-90°)	81.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3119.1	3119.1	3119.1	3119.1	3119.1	3119.1	3119.1	3119.1	3119.1	3119.1	3119.1
2.5°	3159.1	3157.1	3158.1	3157.1	3160.1	3158.1	3146.4	3136.7	3128.9	3129.9	3126.9
5°	3226.4	3227.4	3228.3	3223.5	3230.4	3226.4	3207.9	3192.3	3176.6	3170.8	3168.9
7.5°	3282.0	3286.9	3289.8	3294.7	3306.4	3306.4	3296.6	3274.3	3240.1	3220.6	3219.6
10°	3337.7	3341.5	3350.3	3365.9	3385.4	3403.9	3400.1	3369.8	3325.9	3292.8	3284.9
12.5°	3357.2	3362.1	3391.3	3436.2	3480.1	3516.2	3516.2	3491.8	3435.2	3384.4	3369.8
15°	3288.9	3297.6	3350.3	3445.9	3561.0	3640.1	3657.7	3623.5	3563.0	3484.9	3467.4
17.5°	3153.2	3174.7	3251.8	3393.3	3584.5	3748.4	3799.1	3782.6	3704.5	3604.9	3584.5
20°	3007.9	3031.3	3113.2	3300.6	3565.0	3811.8	3959.1	3963.0	3866.4	3722.0	3691.8
22.5°	2847.9	2865.5	2970.8	3190.3	3506.5	3826.5	4096.7	4164.0	4033.3	3839.1	3796.2
25°	2668.3	2687.8	2798.1	3035.2	3396.2	3809.8	4222.6	4370.8	4207.9	3964.0	3909.4
27.5°	2496.7	2504.4	2622.5	2863.5	3250.8	3766.9	4315.3	4561.1	4401.1	4067.4	3998.1
30°	2331.8	2350.3	2454.7	2692.7	3083.9	3683.0	4395.2	4777.7	4608.9	4175.7	4086.9
32.5°	2157.2	2179.5	2292.7	2533.7	2917.2	3557.2	4444.0	5014.8	4898.7	4351.3	4256.7
35°	1989.3	2003.9	2118.1	2352.3	2754.2	3410.8	4452.8	5282.1	5272.3	4617.7	4491.8
37.5°	1817.6	1839.1	1954.2	2178.6	2581.5	3255.7	4408.9	5566.0	5723.1	4987.5	4851.8
40°	1652.7	1671.2	1784.4	2010.7	2385.4	3066.5	4304.5	5825.5	6249.0	5367.9	5175.8
42.5°	1473.2	1478.1	1602.0	1832.2	2193.2	2846.9	4154.3	6056.7	6835.3	5878.2	5639.2
45°	1269.3	1282.0	1397.1	1623.5	1972.7	2601.0	3950.3	6248.0	7578.8	6585.5	6259.6
47.5°	1065.4	1076.1	1181.5	1404.9	1731.8	2319.1	3636.1	6415.7	8341.7	7484.1	7056.7
50°	866.4	872.2	958.1	1156.1	1460.6	2022.5	3246.9	6469.4	9204.2	8756.3	8210.9
52.5°	684.9	693.7	759.0	914.2	1170.8	1672.2	2826.4	6336.8	10211.0	10264.7	9495.8
55°	555.1	558.1	606.9	721.0	915.2	1305.4	2319.1	5967.0	11294.0	12197.4	11216.8
57.5°	478.0	480.0	507.3	570.8	704.4	984.4	1799.1	5267.4	12266.7	14461.8	13201.3
60°	434.1	435.1	450.8	487.8	558.1	755.1	1288.8	4280.1	13226.7	16981.9	15667.7
62.5°	406.9	406.9	417.6	438.1	472.2	579.5	933.7	3087.9	13884.2	19539.0	18707.8
65°	380.5	380.5	388.3	402.9	421.5	474.2	689.8	2013.7	13867.7	21401.5	21765.4
67.5°	350.3	350.3	356.1	370.7	381.5	407.8	532.7	1319.0	12456.9	21360.6	23433.8
70°	314.1	314.1	321.9	334.6	343.5	360.0	420.5	902.5	9151.4	18238.5	20840.5
72.5°	278.0	279.0	283.9	296.6	303.4	313.2	349.3	632.2	5613.8	12418.9	14572.1
75°	238.1	240.0	244.9	257.6	263.4	267.4	294.6	450.8	2840.1	6695.8	7623.6
77.5°	192.2	196.1	199.1	212.7	216.6	222.4	243.0	325.9	1246.9	2405.9	2427.4
80°	140.5	145.4	154.2	166.9	169.8	173.7	185.4	231.2	564.9	1098.6	1193.2
82.5°	103.4	110.3	99.5	116.1	116.1	111.3	130.8	155.2	259.5	1087.8	1301.5
85°	56.6	57.5	51.7	59.5	63.4	62.4	69.3	76.1	125.9	725.9	748.3
87.5°	13.6	14.6	15.6	18.5	22.5	22.5	24.4	21.4	41.0	235.1	134.6
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)