

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: P651907

Luminaire Tested: **GALN-SA5A-840-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651907
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-SA5A-840-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19226.1 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

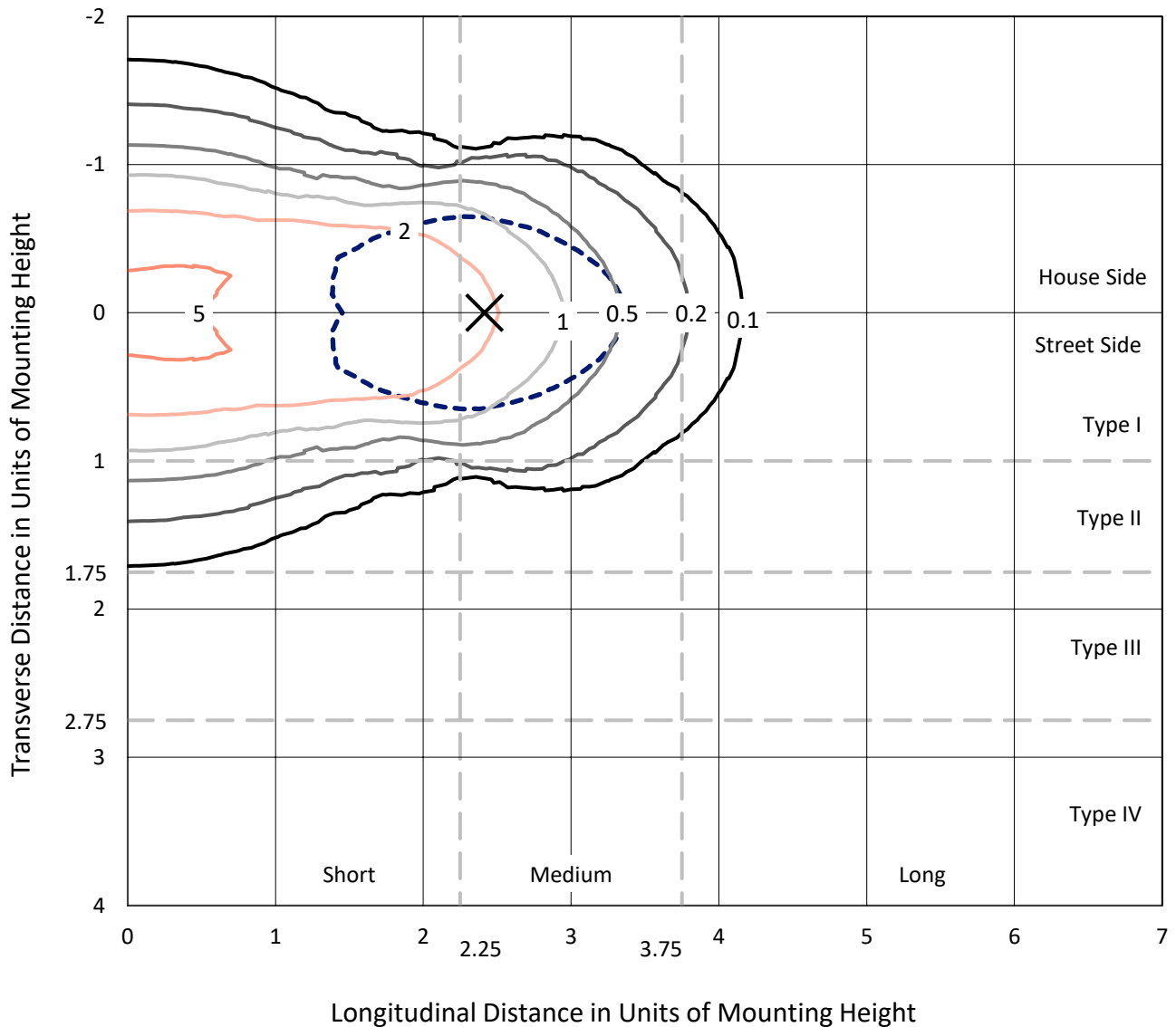
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

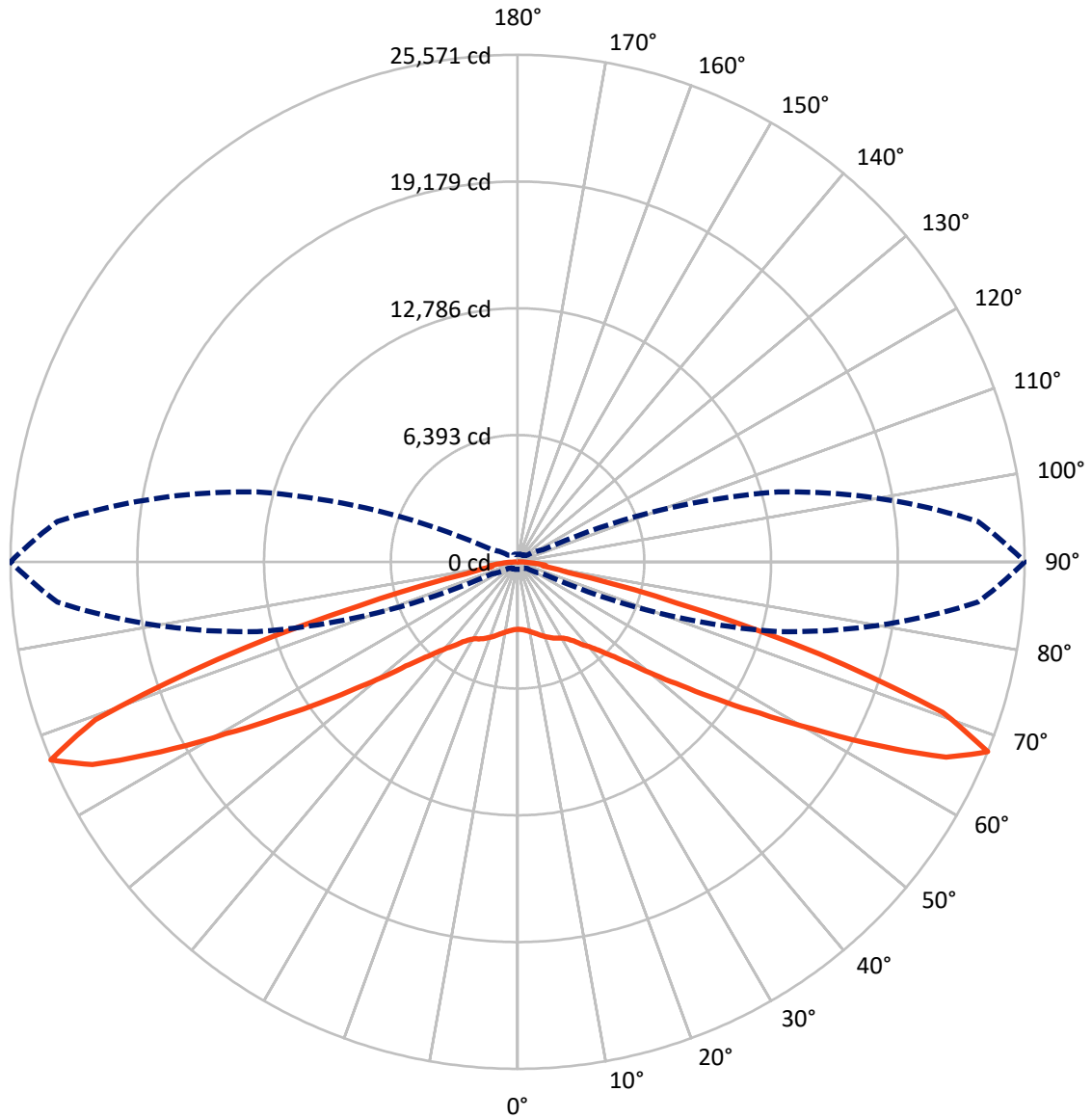
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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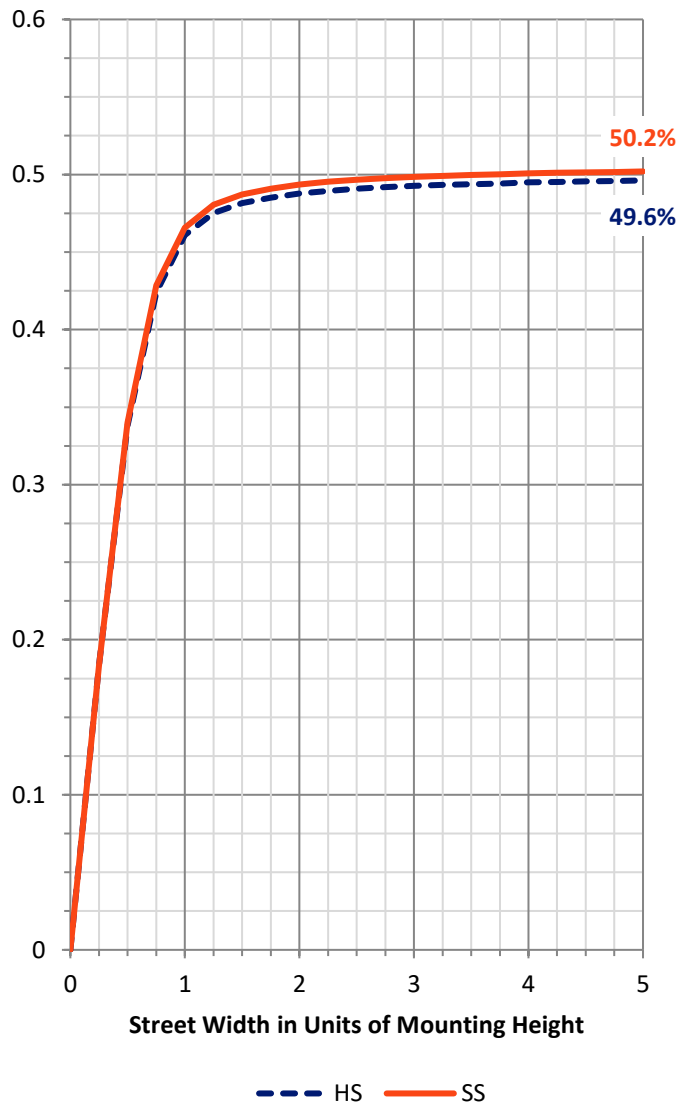
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9613.1	0.0	9613.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9613.1	0.0	9613.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	19226.1	0.0	19226.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.3	1.8
10°-20°	1085.7	5.6
20°-30°	1817.2	9.5
30°-40°	2461.8	12.8
40°-50°	3118.3	16.2
50°-60°	3895.5	20.3
60°-70°	4579.0	23.8
70°-80°	1751.7	9.1
80°-90°	177.5	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°	19226.1	100.0
0°-180°	19226.1	100.0

Coefficient of Utilization

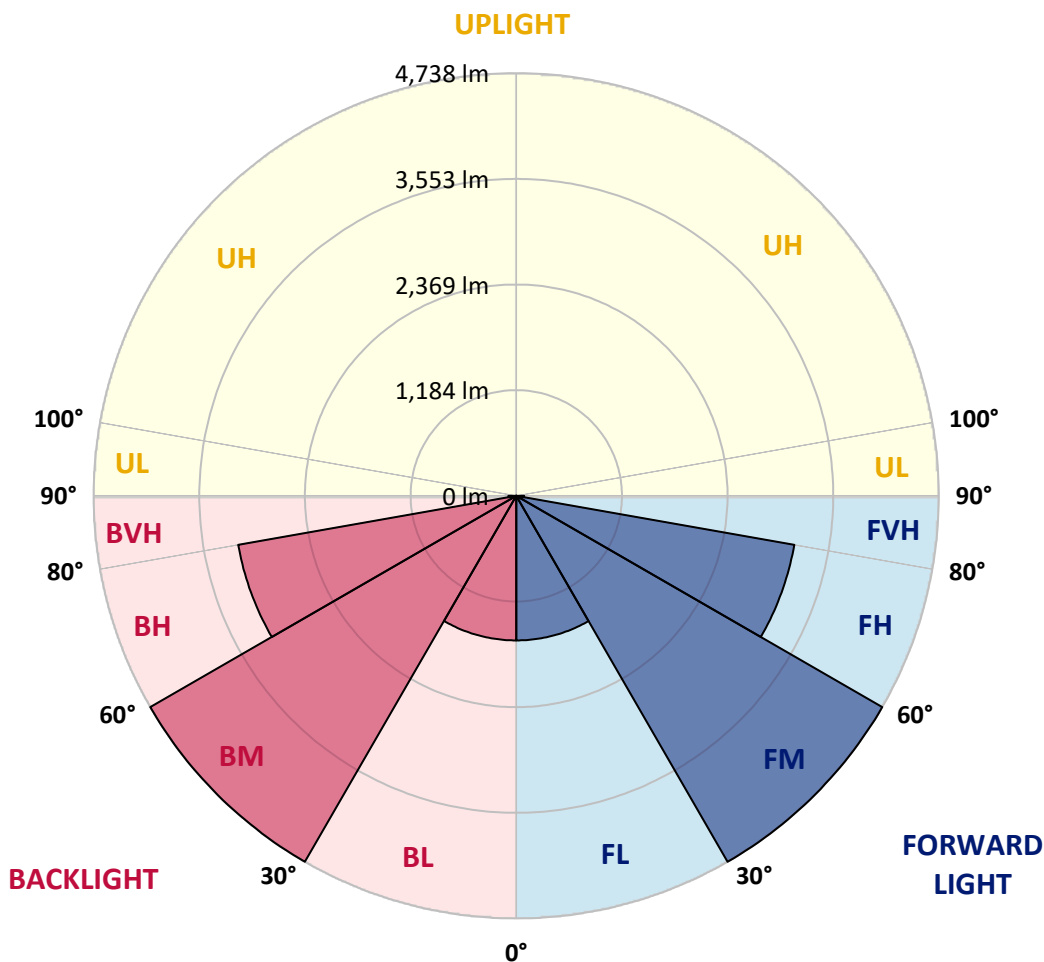


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1621.1	8.4			
FM (30°-60°)	4737.8	24.6			
FH (60°-80°)	3165.4	16.5			G2/5000
FVH (80°-90°)	88.7	0.5			G1/100
BL (0°-30°)	1621.1	8.4	B3/2500		
BM (30°-60°)	4737.8	24.6	B3/5000		
BH (60°-80°)	3165.4	16.5	B4/5000		G4/5000
BVH (80°-90°)	88.7	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°	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6
2.5°	3447.3	3445.2	3446.2	3445.2	3448.4	3446.2	3433.5	3422.8	3414.3	3415.3	3412.1
5°	3520.8	3521.8	3522.9	3517.6	3525.0	3520.8	3500.5	3483.5	3466.4	3460.0	3457.9
7.5°	3581.4	3586.7	3589.9	3595.3	3608.1	3608.1	3597.4	3572.9	3535.6	3514.4	3513.3
10°	3642.1	3646.3	3655.9	3673.0	3694.3	3714.5	3710.2	3677.2	3629.3	3593.1	3584.6
12.5°	3663.4	3668.7	3700.7	3749.6	3797.5	3836.9	3836.9	3810.3	3748.6	3693.2	3677.2
15°	3588.9	3598.5	3655.9	3760.3	3885.9	3972.1	3991.3	3954.0	3888.0	3802.8	3783.7
17.5°	3440.9	3464.3	3548.4	3702.8	3911.4	4090.3	4145.6	4127.5	4042.4	3933.8	3911.4
20°	3282.3	3307.8	3397.2	3601.7	3890.1	4159.5	4320.3	4324.5	4219.1	4061.5	4028.6
22.5°	3107.7	3126.8	3241.8	3481.3	3826.3	4175.5	4470.3	4543.8	4401.2	4189.3	4142.4
25°	2911.8	2933.1	3053.3	3312.0	3706.0	4157.4	4607.8	4769.6	4591.8	4325.6	4266.0
27.5°	2724.4	2732.9	2861.8	3124.7	3547.3	4110.6	4708.8	4977.1	4802.5	4438.5	4362.9
30°	2544.4	2564.7	2678.6	2938.4	3365.3	4019.0	4796.1	5213.5	5029.3	4556.6	4459.7
32.5°	2353.9	2378.3	2501.9	2764.9	3183.3	3881.6	4849.4	5472.2	5345.5	4748.3	4645.0
35°	2170.8	2186.8	2311.3	2566.8	3005.5	3721.9	4859.0	5763.9	5753.3	5038.9	4901.5
37.5°	1983.4	2006.8	2132.4	2377.3	2817.0	3552.6	4811.0	6073.7	6245.1	5442.4	5294.4
40°	1803.4	1823.7	1947.2	2194.2	2603.0	3346.1	4697.2	6356.9	6818.9	5857.6	5647.8
42.5°	1607.6	1613.0	1748.1	1999.4	2393.3	3106.6	4533.2	6609.3	7458.8	6414.4	6153.5
45°	1385.0	1398.9	1524.6	1771.6	2152.7	2838.3	4310.7	6817.9	8270.1	7186.3	6830.7
47.5°	1162.6	1174.3	1289.3	1533.1	1889.7	2530.7	3967.8	7001.0	9102.6	8166.8	7700.4
50°	945.4	951.8	1045.4	1261.6	1593.8	2207.0	3543.0	7059.5	10043.7	9555.0	8959.9
52.5°	747.4	757.0	828.3	997.6	1277.6	1824.8	3084.2	6914.8	11142.4	11200.9	10362.0
55°	605.8	609.0	662.2	786.8	998.6	1424.5	2530.7	6511.3	12324.2	13310.0	12240.0
57.5°	521.7	523.8	553.6	622.8	768.7	1074.2	1963.1	5747.9	13385.6	15781.0	14405.5
60°	473.7	474.8	491.8	532.4	609.0	824.0	1406.4	4670.5	14433.2	18530.9	17096.9
62.5°	444.0	444.0	455.7	478.0	515.3	632.3	1018.9	3369.6	15150.7	21321.3	20414.3
65°	415.2	415.2	423.7	439.7	459.9	517.4	752.7	2197.4	15132.6	23353.7	23750.8
67.5°	382.2	382.2	388.6	404.5	416.3	445.0	581.3	1439.4	13593.2	23309.0	25571.4
70°	342.8	342.8	351.3	365.2	374.7	392.8	458.8	984.8	9986.2	19902.2	22741.6
72.5°	303.4	304.4	309.8	323.6	331.1	341.8	381.1	689.9	6125.8	13551.6	15901.3
75°	259.8	261.9	267.2	281.1	287.5	291.7	321.5	491.8	3099.2	7306.5	8319.0
77.5°	209.7	214.0	217.1	232.1	236.3	242.7	265.1	355.6	1360.6	2625.3	2648.8
80°	153.3	158.6	168.2	182.1	185.3	189.5	202.3	252.3	616.5	1198.8	1302.0
82.5°	112.9	120.3	108.6	126.7	126.7	121.4	142.6	169.3	283.2	1187.1	1420.2
85°	61.7	62.8	56.4	64.9	69.2	68.1	75.6	83.0	137.3	792.1	816.6
87.5°	14.9	16.0	17.1	20.3	24.5	24.5	26.6	23.4	44.7	256.6	146.9
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)