

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: P652347

Luminaire Tested: **GALN-SA4B-840-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652347
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-SA4B-840-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 18897.3 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

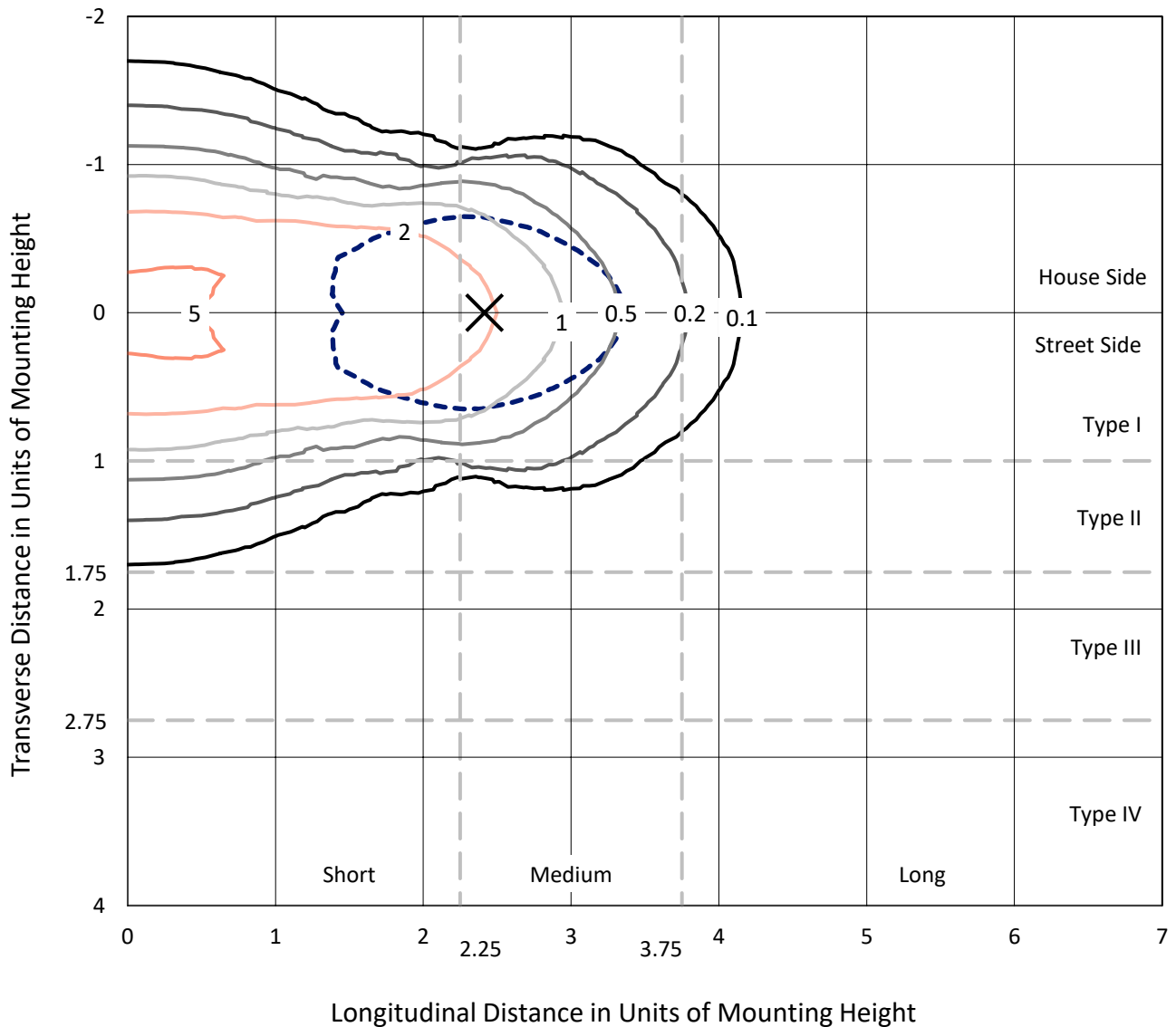
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

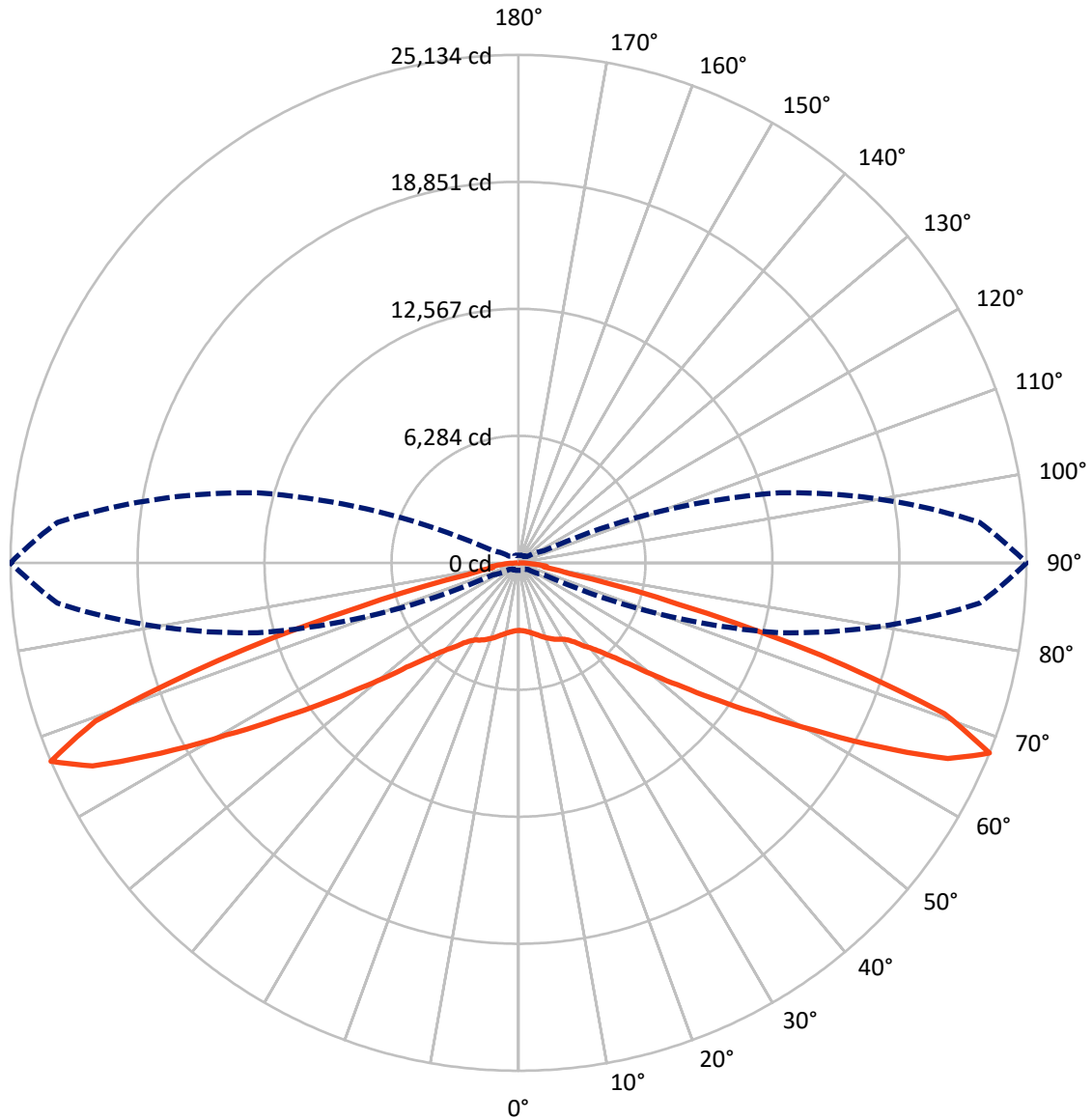
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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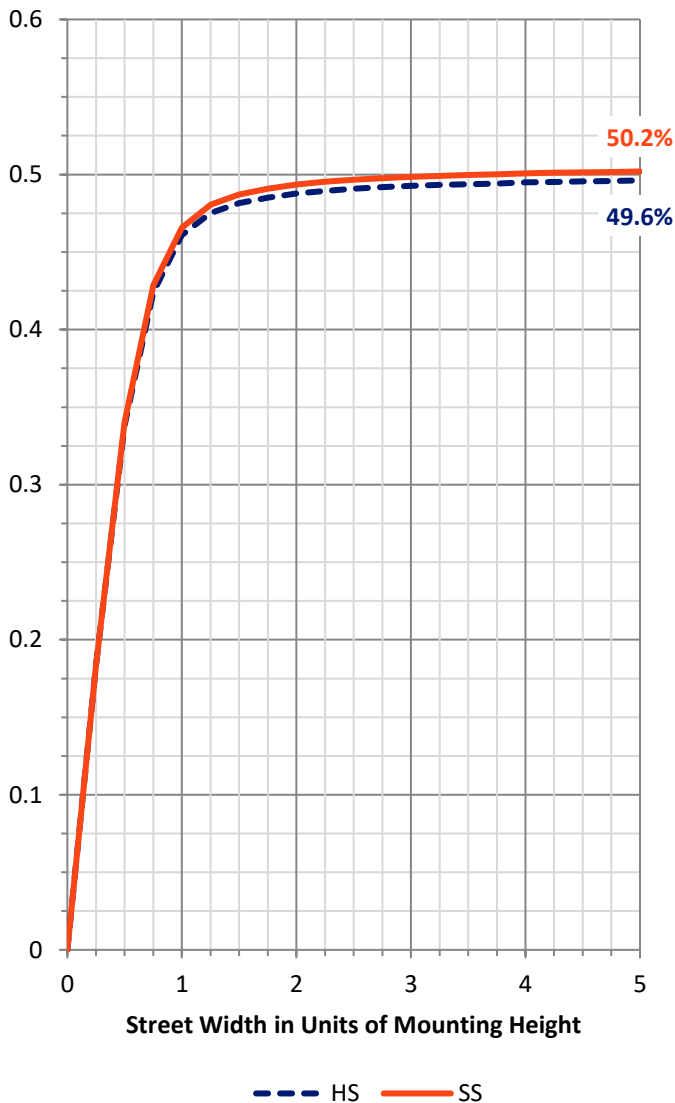
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9448.6	0.0	9448.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9448.6	0.0	9448.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	18897.3	0.0	18897.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.5	1.8
10°-20°	1067.1	5.6
20°-30°	1786.1	9.5
30°-40°	2419.7	12.8
40°-50°	3065.0	16.2
50°-60°	3828.9	20.3
60°-70°	4500.7	23.8
70°-80°	1721.7	9.1
80°-90°	174.4	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°	18897.3	100.0
0°-180°	18897.3	100.0

Coefficient of Utilization

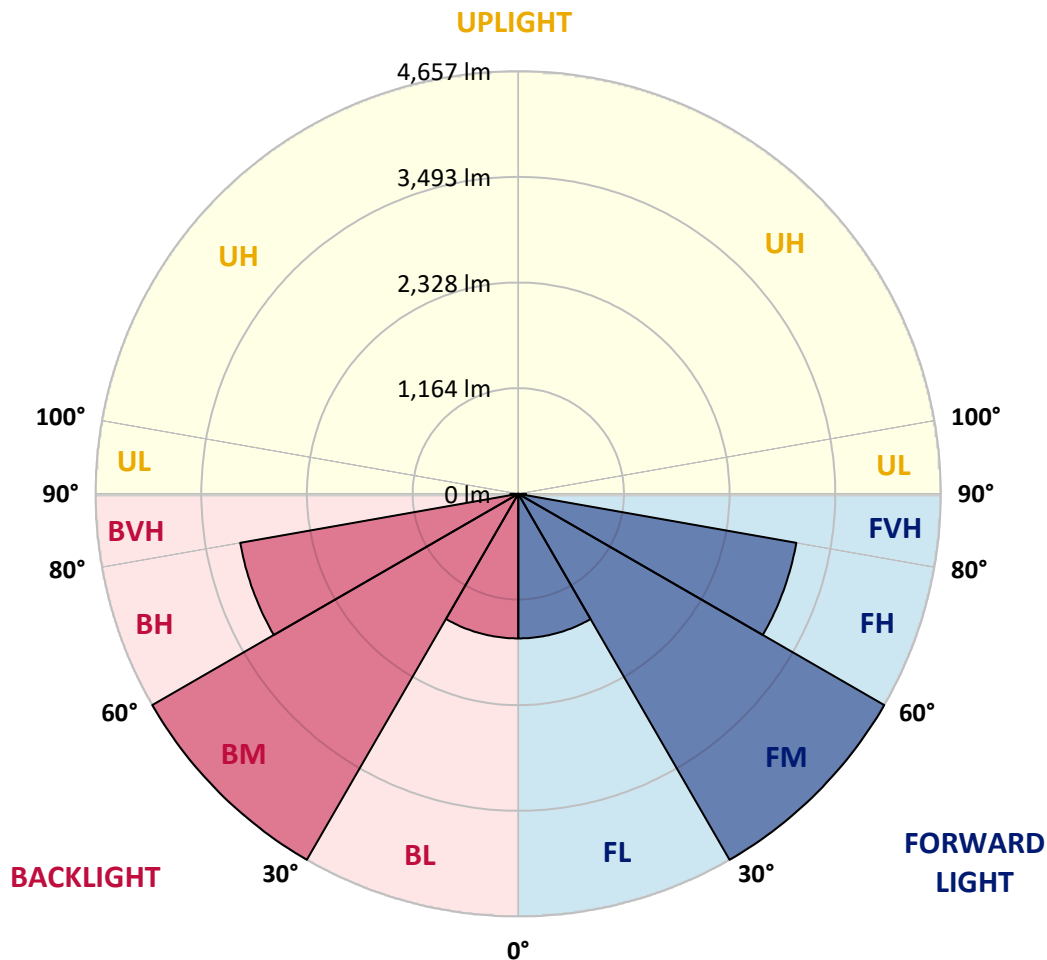


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1593.4	8.4			
FM (30°-60°)	4656.8	24.6			
FH (60°-80°)	3111.2	16.5			G2/5000
FVH (80°-90°)	87.2	0.5			G1/100
BL (0°-30°)	1593.4	8.4	B3/2500		
BM (30°-60°)	4656.8	24.6	B3/5000		
BH (60°-80°)	3111.2	16.5	B4/5000		G4/5000
BVH (80°-90°)	87.2	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°	3345.4	3345.4	3345.4	3345.4	3345.4	3345.4	3345.4	3345.4	3345.4	3345.4	3345.4
2.5°	3388.3	3386.2	3387.3	3386.2	3389.3	3387.3	3374.7	3364.3	3355.8	3356.9	3353.7
5°	3460.5	3461.6	3462.6	3457.4	3464.7	3460.5	3440.6	3423.9	3407.1	3400.8	3398.7
7.5°	3520.2	3525.4	3528.5	3533.8	3546.3	3546.3	3535.8	3511.8	3475.2	3454.2	3453.1
10°	3579.8	3584.0	3593.4	3610.2	3631.1	3650.9	3646.7	3614.4	3567.3	3531.7	3523.3
12.5°	3600.7	3606.0	3637.3	3685.5	3732.6	3771.3	3771.3	3745.1	3684.4	3630.0	3614.4
15°	3527.5	3536.9	3593.4	3695.9	3819.4	3904.2	3923.0	3886.4	3821.5	3737.8	3719.0
17.5°	3382.0	3405.0	3487.7	3639.4	3844.5	4020.3	4074.7	4057.0	3973.2	3866.5	3844.5
20°	3226.1	3251.2	3339.1	3540.0	3823.6	4088.4	4246.4	4250.6	4147.0	3992.1	3959.7
22.5°	3054.5	3073.4	3186.4	3421.8	3760.9	4104.1	4393.9	4466.1	4325.9	4117.7	4071.6
25°	2861.9	2882.9	3001.1	3255.4	3642.6	4086.3	4528.9	4688.0	4513.2	4251.6	4193.0
27.5°	2677.8	2686.2	2812.8	3071.2	3486.7	4040.2	4628.3	4892.0	4720.4	4362.5	4288.3
30°	2501.0	2520.8	2632.8	2888.1	3307.7	3950.3	4714.1	5124.3	4943.3	4478.7	4383.5
32.5°	2313.7	2337.7	2459.1	2717.5	3128.8	3815.3	4766.5	5378.6	5254.1	4667.0	4565.5
35°	2133.6	2149.3	2271.8	2522.9	2954.0	3658.3	4775.9	5665.3	5654.9	4952.7	4817.8
37.5°	1949.5	1972.5	2095.9	2336.6	2768.8	3491.9	4728.8	5969.8	6138.3	5349.3	5203.9
40°	1772.7	1792.5	1913.9	2156.7	2558.5	3288.9	4616.8	6248.2	6702.3	5757.4	5551.3
42.5°	1580.1	1585.3	1718.2	1965.2	2352.4	3053.4	4455.6	6496.1	7331.2	6304.6	6048.3
45°	1361.4	1375.0	1498.5	1741.2	2115.9	2789.8	4237.0	6701.3	8128.6	7063.3	6713.9
47.5°	1142.7	1154.2	1267.2	1506.8	1857.4	2487.3	3900.0	6881.2	8946.9	8027.1	7568.7
50°	929.2	935.5	1027.6	1240.0	1566.5	2169.2	3482.5	6938.8	9871.9	9391.6	8806.7
52.5°	734.6	744.0	814.1	980.5	1255.7	1793.6	3031.5	6796.5	10951.8	11009.4	10184.8
55°	595.4	598.5	650.8	773.3	981.5	1400.1	2487.3	6399.9	12113.3	13082.3	12030.7
57.5°	512.8	514.9	544.1	612.2	755.6	1055.9	1929.6	5649.6	13156.6	15511.1	14159.1
60°	465.7	466.7	483.4	523.2	598.5	810.0	1382.4	4590.7	14186.3	18214.0	16804.4
62.5°	436.4	436.4	447.8	469.9	506.5	621.6	1001.5	3311.9	14891.6	20956.6	20065.1
65°	408.1	408.1	416.5	432.2	452.0	508.6	739.8	2159.8	14873.8	22954.3	23344.6
67.5°	375.7	375.7	382.0	397.6	409.1	437.4	571.4	1414.7	13360.7	22910.4	25134.0
70°	337.0	337.0	345.3	358.9	368.4	386.1	451.0	967.9	9815.4	19561.7	22352.6
72.5°	298.2	299.3	304.5	318.2	325.5	335.9	374.6	678.1	6021.1	13319.8	15629.3
75°	255.3	257.4	262.6	276.3	282.5	286.7	316.0	483.4	3046.1	7181.6	8176.7
77.5°	206.1	210.3	213.4	228.1	232.3	238.6	260.5	349.5	1337.4	2580.4	2603.5
80°	150.7	155.9	165.3	179.0	182.1	186.3	198.8	248.0	605.9	1178.2	1279.7
82.5°	110.9	118.2	106.7	124.6	124.6	119.3	140.2	166.3	278.4	1166.7	1395.9
85°	60.7	61.7	55.4	63.8	68.0	66.9	74.3	81.7	135.0	778.5	802.6
87.5°	14.6	15.7	16.7	19.8	24.1	24.1	26.2	23.0	44.0	252.2	144.4
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)