

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: P650862

Luminaire Tested: **GALN-SA4C-840-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650862
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-SA4C-840-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 23348.7 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

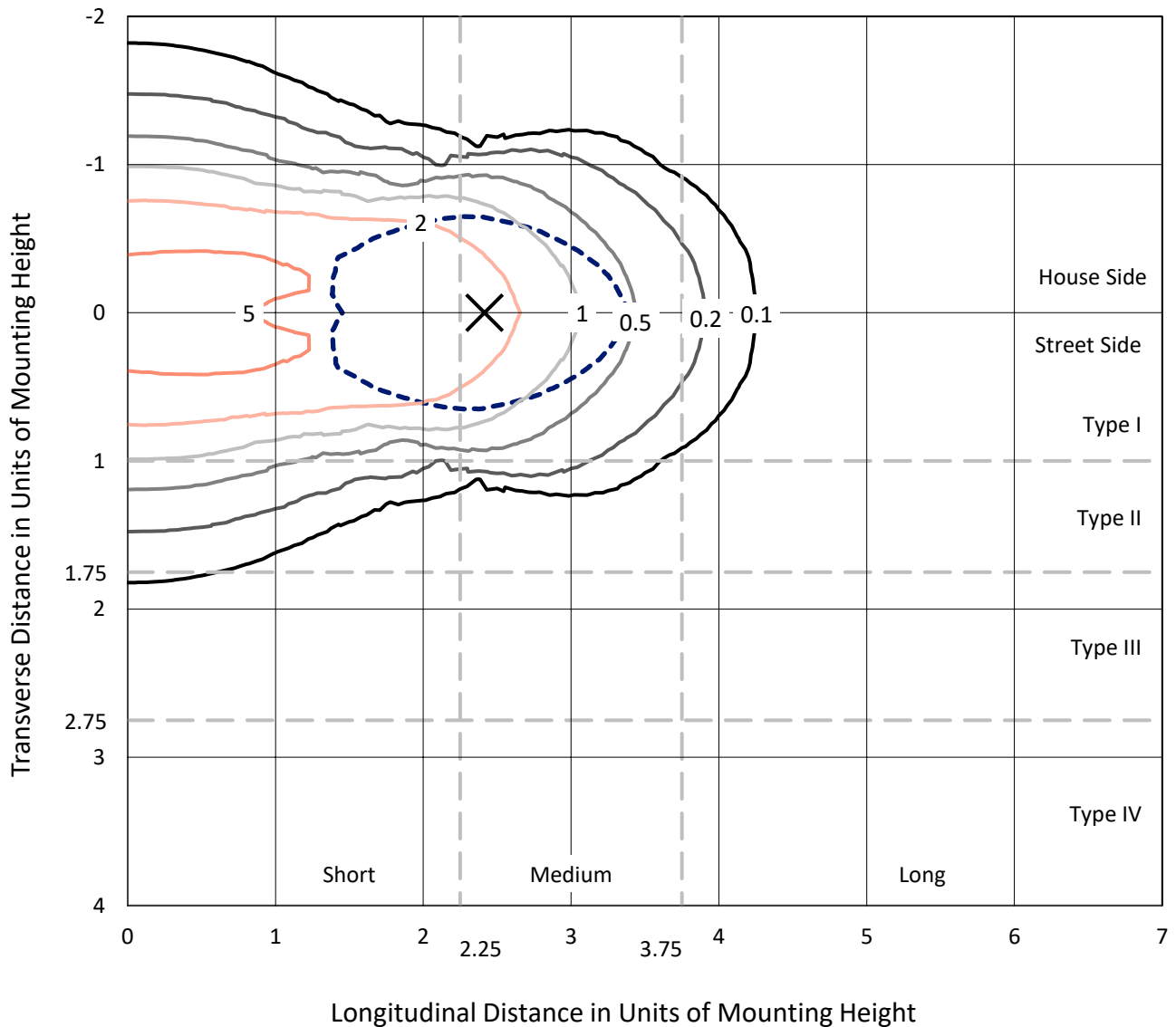
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

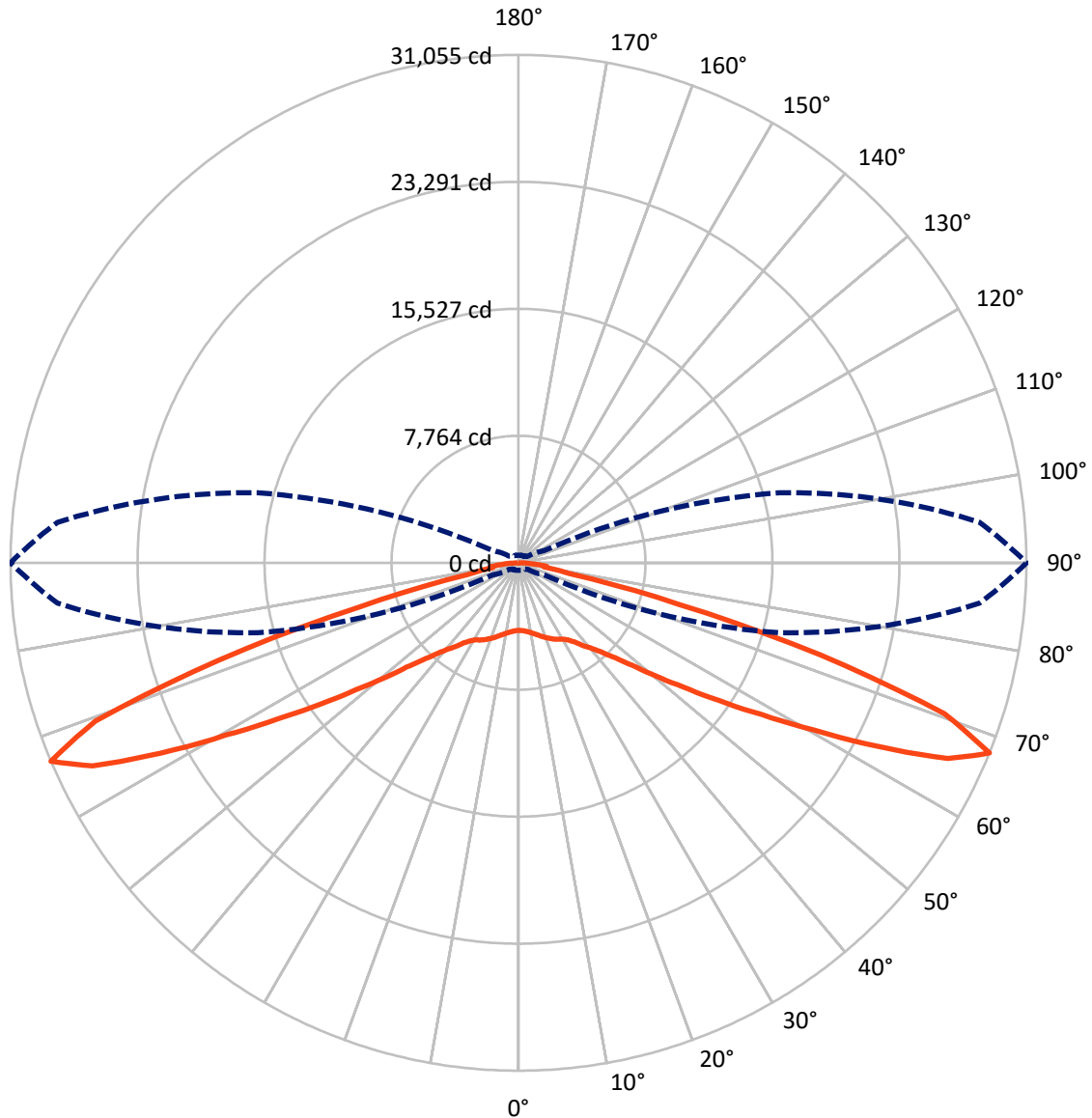
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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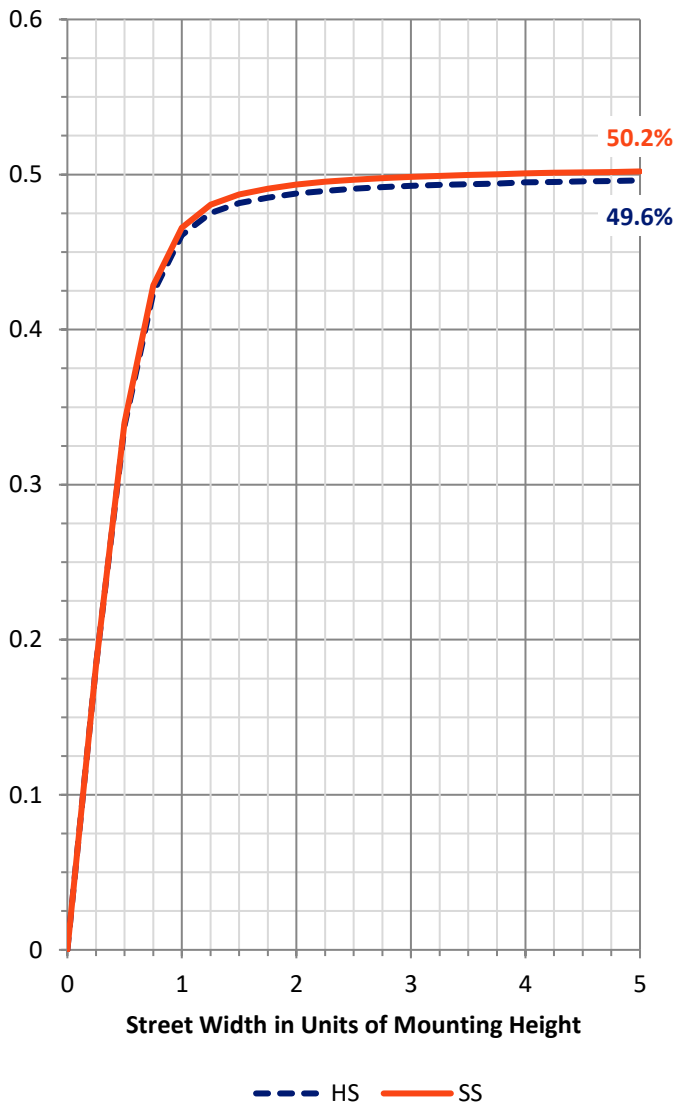
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11674.4	0.0	11674.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11674.4	0.0	11674.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	23348.7	0.0	23348.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.1	1.8
10°-20°	1318.5	5.6
20°-30°	2206.8	9.5
30°-40°	2989.7	12.8
40°-50°	3786.9	16.2
50°-60°	4730.9	20.3
60°-70°	5560.9	23.8
70°-80°	2127.3	9.1
80°-90°	215.5	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°	23348.7	100.0
0°-180°	23348.7	100.0



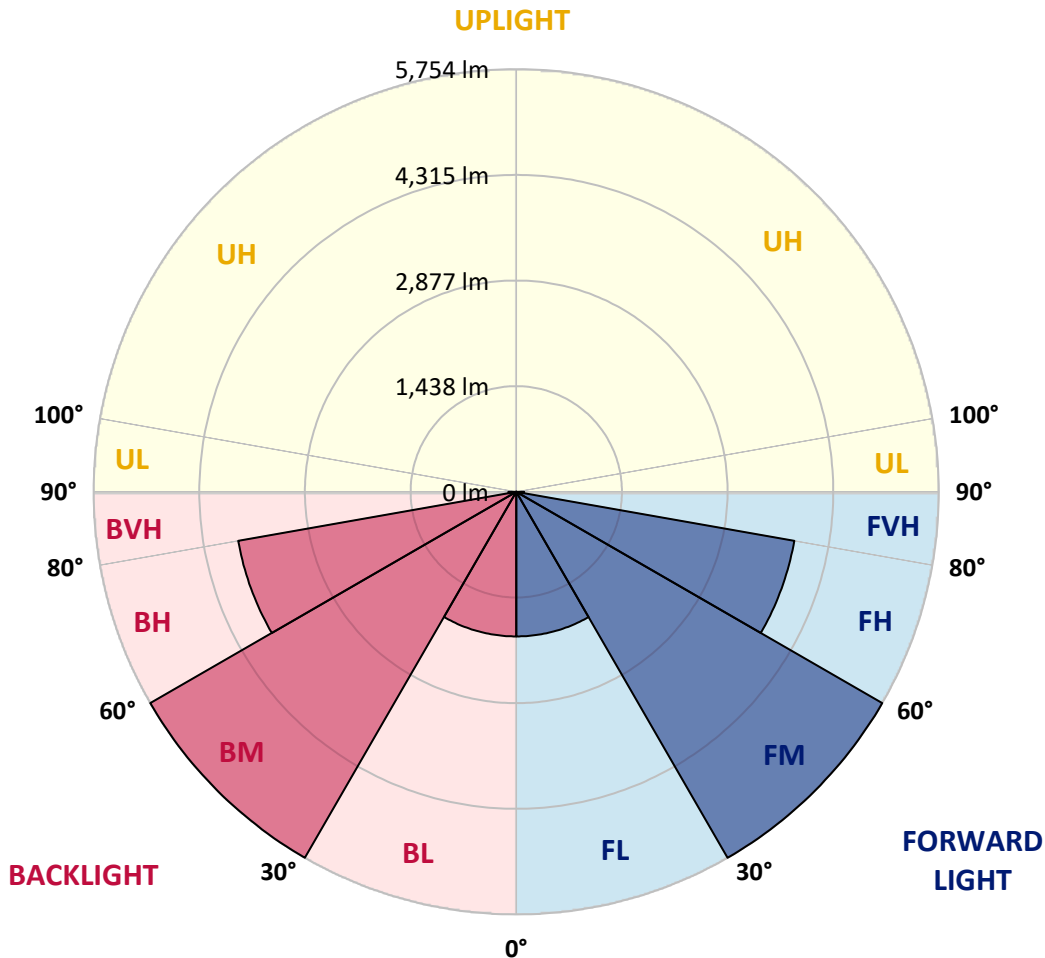
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1968.7	8.4			
FM (30°-60°)	5753.8	24.6			
FH (60°-80°)	3844.1	16.5			G2/5000
FVH (80°-90°)	107.8	0.5			G2/225
BL (0°-30°)	1968.7	8.4	B3/2500		
BM (30°-60°)	5753.8	24.6	B4/8500		
BH (60°-80°)	3844.1	16.5	B4/5000		G4/5000
BVH (80°-90°)	107.8	0.5			G2/225
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°	4133.4	4133.4	4133.4	4133.4	4133.4	4133.4	4133.4	4133.4	4133.4	4133.4	4133.4
2.5°	4186.4	4183.9	4185.2	4183.9	4187.8	4185.2	4169.7	4156.7	4146.4	4147.6	4143.8
5°	4275.6	4277.0	4278.3	4271.8	4280.9	4275.6	4251.1	4230.4	4209.7	4202.0	4199.4
7.5°	4349.4	4355.8	4359.7	4366.1	4381.7	4381.7	4368.7	4339.1	4293.7	4267.9	4266.6
10°	4423.1	4428.2	4439.9	4460.6	4486.4	4511.0	4505.8	4465.7	4407.5	4363.6	4353.3
12.5°	4448.9	4455.4	4494.1	4553.7	4611.8	4659.6	4659.6	4627.4	4552.3	4485.1	4465.7
15°	4358.4	4370.1	4439.9	4566.5	4719.1	4823.9	4847.1	4801.9	4721.7	4618.3	4595.1
17.5°	4178.7	4207.1	4309.3	4496.7	4750.1	4967.4	5034.6	5012.6	4909.2	4777.3	4750.1
20°	3986.1	4017.1	4125.7	4374.0	4724.3	5051.4	5246.7	5251.8	5123.8	4932.5	4892.3
22.5°	3774.0	3797.3	3936.9	4227.8	4646.7	5070.8	5428.9	5518.1	5344.9	5087.6	5030.7
25°	3536.2	3562.0	3708.1	4022.3	4500.6	5048.9	5595.8	5792.2	5576.3	5253.1	5180.7
27.5°	3308.6	3318.9	3475.3	3794.7	4308.0	4991.9	5718.5	6044.4	5832.3	5390.1	5298.4
30°	3090.1	3114.6	3253.0	3568.4	4086.9	4880.7	5824.6	6331.4	6107.8	5533.7	5416.0
32.5°	2858.6	2888.3	3038.4	3357.7	3865.8	4714.0	5889.2	6645.6	6491.7	5766.4	5641.0
35°	2636.3	2655.6	2806.9	3117.3	3649.9	4520.0	5900.9	6999.8	6986.9	6119.4	5952.6
37.5°	2408.7	2437.1	2589.7	2887.1	3421.0	4314.4	5842.7	7376.1	7584.2	6609.3	6429.7
40°	2190.2	2214.8	2364.7	2664.7	3161.2	4063.6	5704.3	7720.0	8281.1	7113.6	6858.9
42.5°	1952.3	1958.8	2122.9	2428.1	2906.5	3772.7	5505.2	8026.4	9058.2	7789.8	7473.0
45°	1682.1	1698.9	1851.5	2151.4	2614.2	3446.9	5235.0	8279.8	10043.4	8727.1	8295.4
47.5°	1411.9	1426.1	1565.7	1861.8	2294.9	3073.3	4818.7	8502.2	11054.4	9917.9	9351.7
50°	1148.1	1155.9	1269.7	1532.1	1935.5	2680.2	4302.8	8573.3	12197.4	11603.9	10881.2
52.5°	907.6	919.3	1005.9	1211.5	1551.5	2216.0	3745.6	8397.5	13531.6	13602.8	12584.0
55°	735.7	739.6	804.2	955.5	1212.7	1729.9	3073.3	7907.4	14966.8	16164.0	14864.6
57.5°	633.5	636.1	672.3	756.4	933.5	1304.6	2384.2	6980.5	16255.8	19164.9	17494.4
60°	575.3	576.7	597.4	646.5	739.6	1000.7	1707.9	5672.0	17528.0	22504.5	20762.9
62.5°	539.2	539.2	553.4	580.5	625.8	768.0	1237.3	4092.1	18399.5	25893.2	24791.6
65°	504.3	504.3	514.6	534.0	558.5	628.4	914.1	2668.6	18377.4	28361.4	28843.6
67.5°	464.1	464.1	471.9	491.3	505.5	540.4	705.9	1748.0	16507.9	28307.1	31054.5
70°	416.3	416.3	426.6	443.5	455.1	477.1	557.2	1196.0	12127.6	24169.8	27617.9
72.5°	368.4	369.8	376.3	393.1	402.1	415.0	462.9	837.8	7439.4	16457.5	19311.0
75°	315.5	318.1	324.5	341.4	349.1	354.2	390.5	597.4	3763.6	8873.2	10102.8
77.5°	254.7	259.9	263.7	281.8	287.0	294.8	321.9	431.9	1652.3	3188.3	3216.7
80°	186.2	192.7	204.3	221.1	225.0	230.1	245.7	306.5	748.6	1455.9	1581.2
82.5°	137.1	146.1	131.9	153.8	153.8	147.4	173.2	205.5	343.9	1441.6	1724.7
85°	75.0	76.3	68.5	78.9	84.0	82.8	91.8	100.8	166.8	961.9	991.6
87.5°	18.1	19.4	20.7	24.6	29.8	29.8	32.3	28.4	54.3	311.6	178.5
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)