

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: P646902

Luminaire Tested: **GALN-SA4C-835-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646902
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-835-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21738.4 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

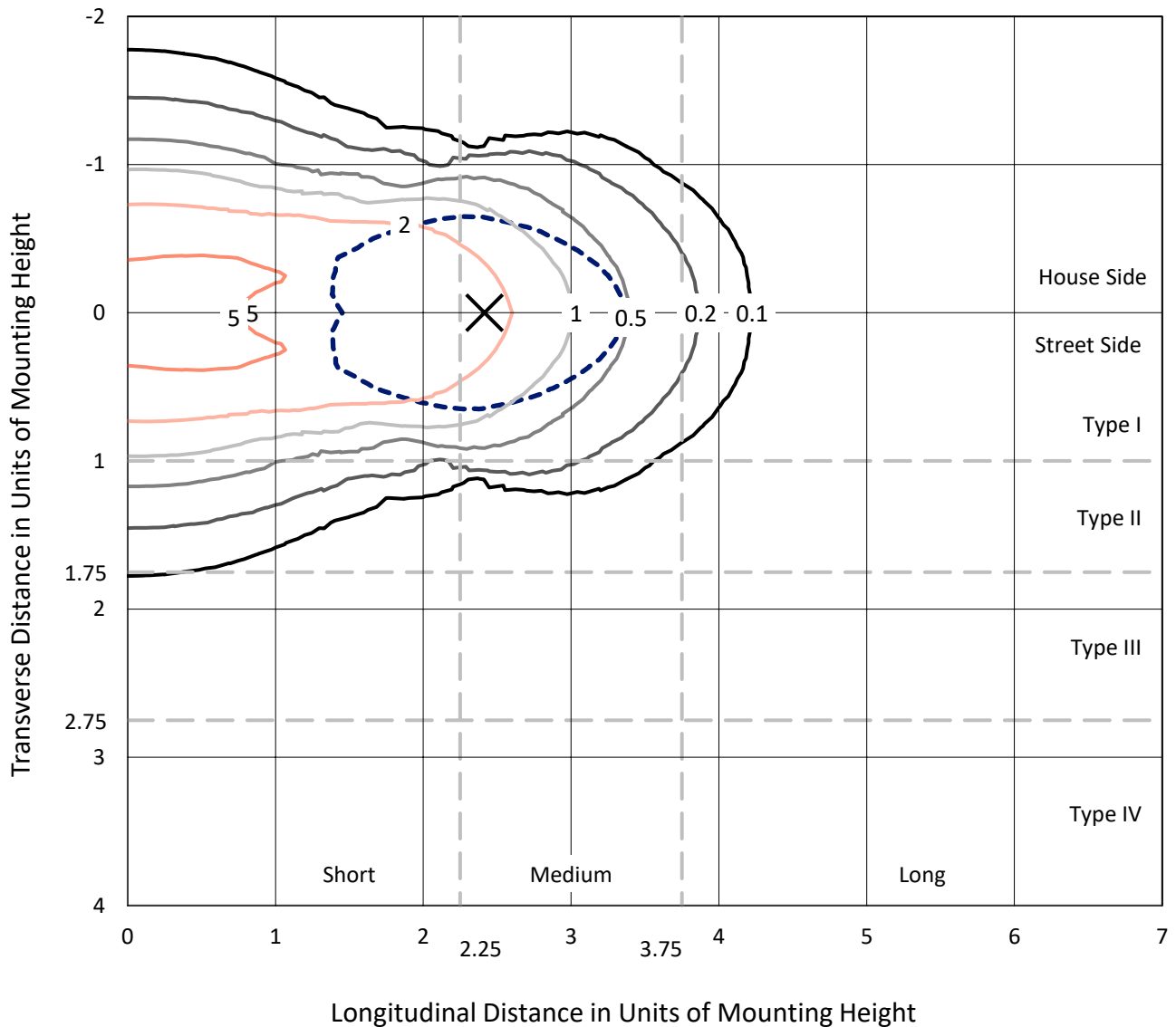
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

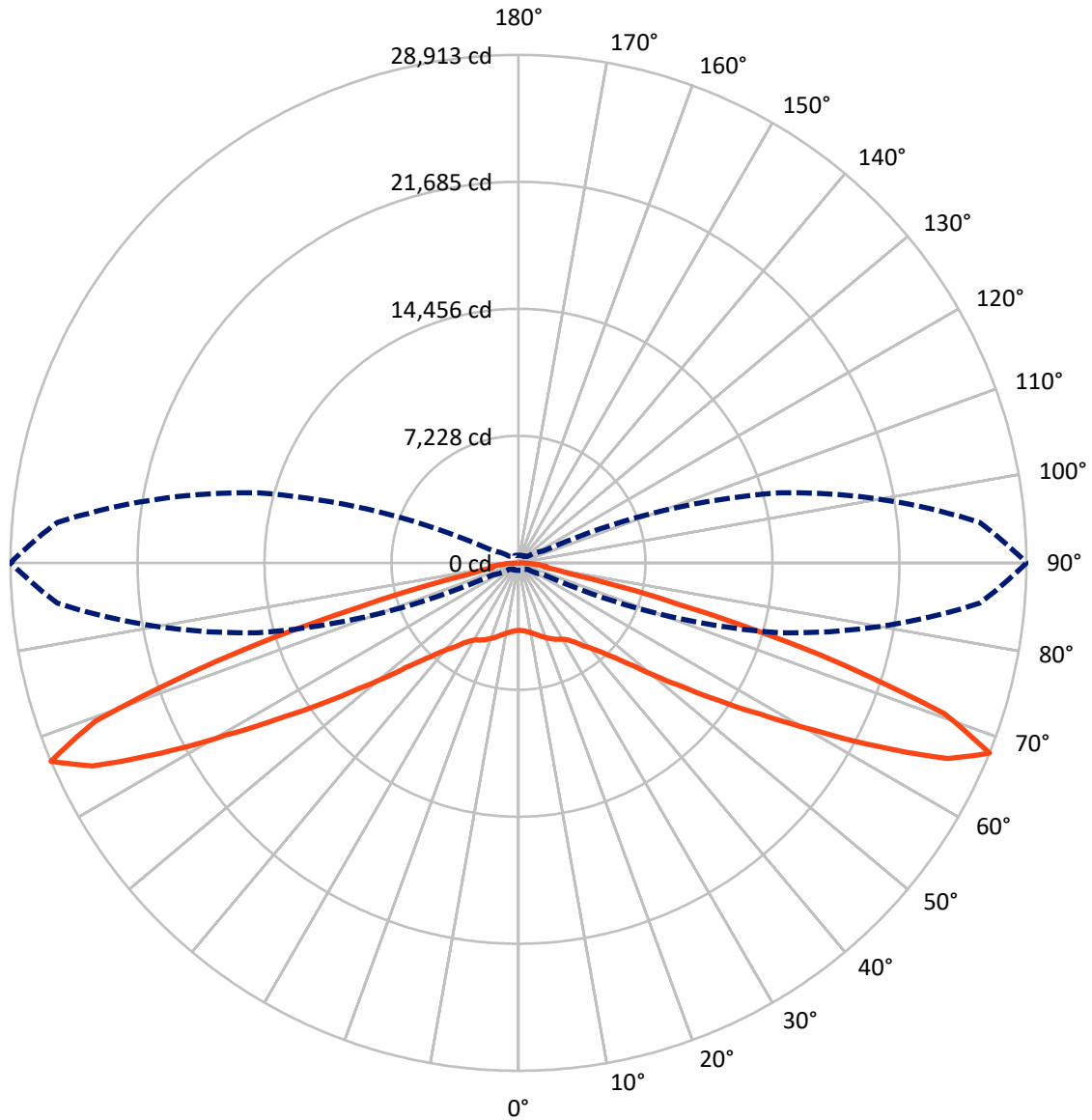
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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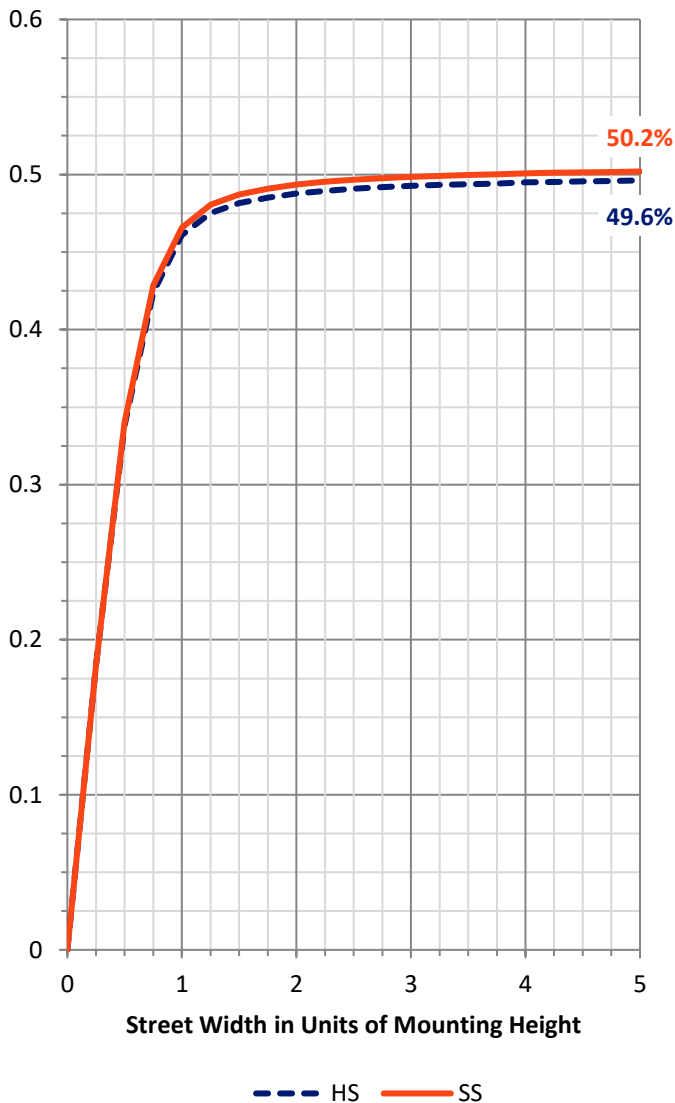
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10869.2	0.0	10869.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10869.2	0.0	10869.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	21738.4	0.0	21738.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.7	1.8
10°-20°	1227.6	5.6
20°-30°	2054.7	9.5
30°-40°	2783.5	12.8
40°-50°	3525.8	16.2
50°-60°	4404.6	20.3
60°-70°	5177.4	23.8
70°-80°	1980.6	9.1
80°-90°	200.7	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°	21738.4	100.0
0°-180°	21738.4	100.0

Coefficient of Utilization



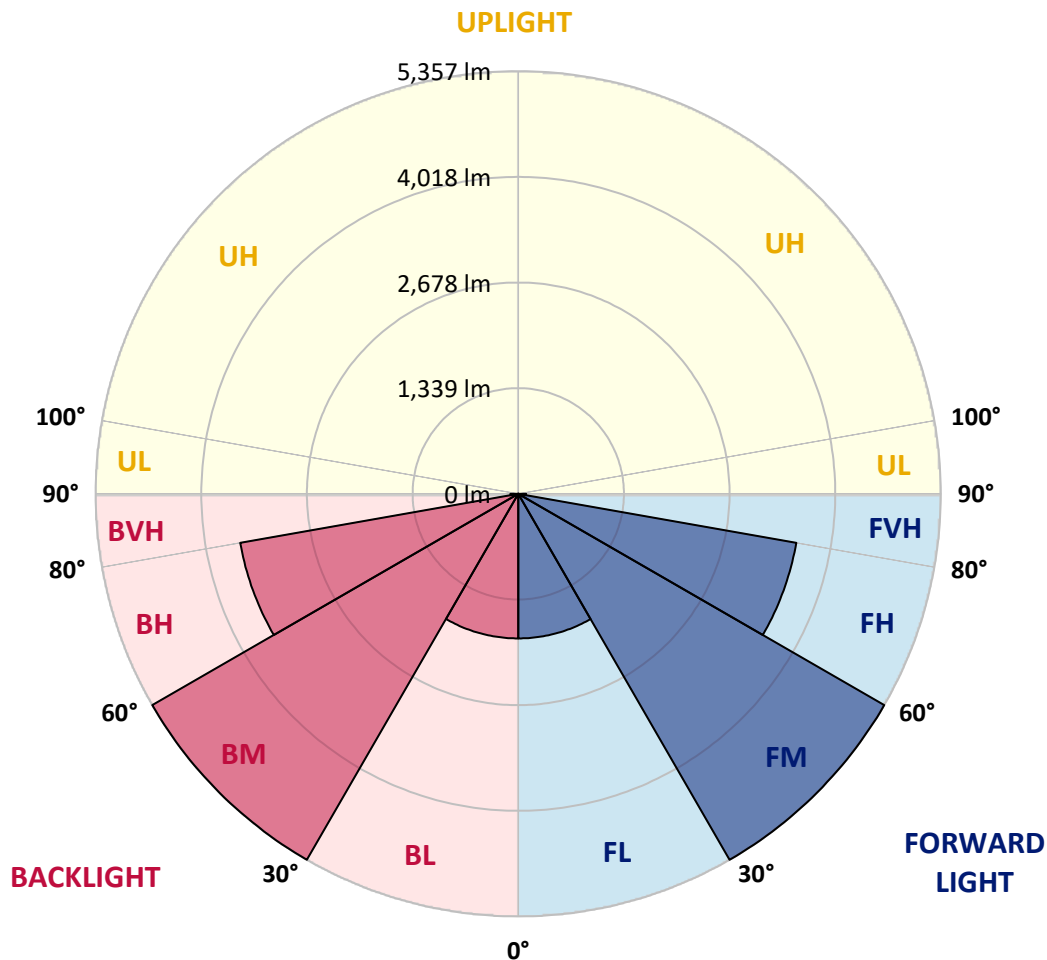
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1833.0	8.4			
FM (30°-60°)	5356.9	24.6			
FH (60°-80°)	3579.0	16.5			G2/5000
FVH (80°-90°)	100.3	0.5			G2/225
BL (0°-30°)	1833.0	8.4	B3/2500		
BM (30°-60°)	5356.9	24.6	B4/8500		
BH (60°-80°)	3579.0	16.5	B4/5000		G4/5000
BVH (80°-90°)	100.3	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°	3848.4	3848.4	3848.4	3848.4	3848.4	3848.4	3848.4	3848.4	3848.4	3848.4	3848.4
2.5°	3897.7	3895.3	3896.5	3895.3	3898.9	3896.5	3882.1	3870.1	3860.4	3861.6	3858.0
5°	3980.8	3982.0	3983.2	3977.2	3985.6	3980.8	3957.9	3938.6	3919.4	3912.2	3909.8
7.5°	4049.4	4055.4	4059.1	4065.0	4079.5	4079.5	4067.5	4039.8	3997.6	3973.6	3972.4
10°	4118.0	4122.8	4133.7	4153.0	4177.0	4199.9	4195.1	4157.7	4103.5	4062.7	4053.0
12.5°	4142.1	4148.1	4184.2	4239.6	4293.7	4338.3	4338.3	4308.2	4238.4	4175.8	4157.7
15°	4057.8	4068.7	4133.7	4251.6	4393.6	4491.2	4512.8	4470.7	4396.1	4299.8	4278.2
17.5°	3890.5	3917.0	4012.1	4186.6	4422.5	4624.8	4687.4	4666.9	4570.6	4447.8	4422.5
20°	3711.2	3740.1	3841.2	4072.3	4398.5	4703.0	4884.8	4889.6	4770.4	4592.3	4554.9
22.5°	3513.7	3535.4	3665.4	3936.2	4326.2	4721.1	5054.5	5137.6	4976.3	4736.8	4683.7
25°	3292.3	3316.3	3452.3	3744.9	4190.2	4700.7	5209.8	5392.8	5191.8	4890.9	4823.4
27.5°	3080.4	3090.0	3235.7	3533.0	4010.9	4647.7	5324.2	5627.5	5430.1	5018.4	4933.0
30°	2877.0	2899.8	3028.6	3322.3	3805.1	4544.1	5422.9	5894.7	5686.5	5152.1	5042.5
32.5°	2661.5	2689.1	2828.8	3126.1	3599.2	4388.9	5483.0	6187.3	6044.0	5368.7	5252.0
35°	2454.5	2472.5	2613.3	2902.3	3398.1	4208.3	5493.9	6517.1	6505.1	5697.3	5542.1
37.5°	2242.6	2269.1	2411.1	2688.0	3185.1	4016.9	5439.7	6867.4	7061.2	6153.5	5986.3
40°	2039.2	2062.0	2201.6	2480.9	2943.1	3783.4	5310.9	7187.5	7710.0	6623.0	6385.9
42.5°	1817.7	1823.7	1976.5	2260.6	2706.0	3512.5	5125.5	7472.9	8433.5	7252.5	6957.7
45°	1566.1	1581.7	1723.8	2003.1	2434.0	3209.2	4873.9	7708.8	9350.7	8125.3	7723.3
47.5°	1314.5	1327.7	1457.7	1733.4	2136.7	2861.3	4486.4	7915.8	10292.1	9233.9	8706.7
50°	1069.0	1076.2	1182.1	1426.5	1802.0	2495.3	4006.1	7982.1	11356.2	10803.6	10130.8
52.5°	845.0	855.9	936.5	1127.9	1444.5	2063.2	3487.2	7818.3	12598.4	12664.6	11716.1
55°	685.0	688.6	748.7	889.6	1129.1	1610.6	2861.3	7362.1	13934.6	15049.3	13839.4
57.5°	589.8	592.3	625.9	704.2	869.1	1214.6	2219.7	6499.1	15134.7	17843.2	16287.9
60°	535.7	536.9	556.2	601.9	688.6	931.7	1590.1	5280.9	16319.2	20952.5	19330.9
62.5°	502.0	502.0	515.2	540.5	582.6	715.0	1151.9	3809.8	17130.6	24107.5	23081.8
65°	469.5	469.5	479.1	497.1	520.0	585.1	851.0	2484.5	17110.0	26405.4	26854.4
67.5°	432.1	432.1	439.3	457.4	470.7	503.2	657.3	1627.5	15369.4	26354.8	28912.8
70°	387.6	387.6	397.2	412.9	423.7	444.2	518.8	1113.5	11291.2	22502.9	25713.3
72.5°	343.0	344.3	350.3	366.0	374.4	386.4	431.0	780.0	6926.3	15322.5	17979.2
75°	293.7	296.1	302.2	317.8	325.0	329.8	363.5	556.2	3504.1	8261.3	9406.1
77.5°	237.2	241.9	245.5	262.4	267.2	274.4	299.7	402.1	1538.4	2968.4	2994.9
80°	173.4	179.4	190.2	205.9	209.5	214.2	228.7	285.3	696.9	1355.5	1472.2
82.5°	127.6	136.0	122.8	143.2	143.2	137.3	161.3	191.4	320.2	1342.1	1605.8
85°	69.8	71.0	63.8	73.4	78.2	77.0	85.5	93.9	155.3	895.6	923.2
87.5°	16.8	18.1	19.3	22.9	27.7	27.7	30.1	26.5	50.6	290.1	166.2
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)