

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: P453628

Luminaire Tested: **GALN-SA4C-830-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453628
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-830-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22062 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

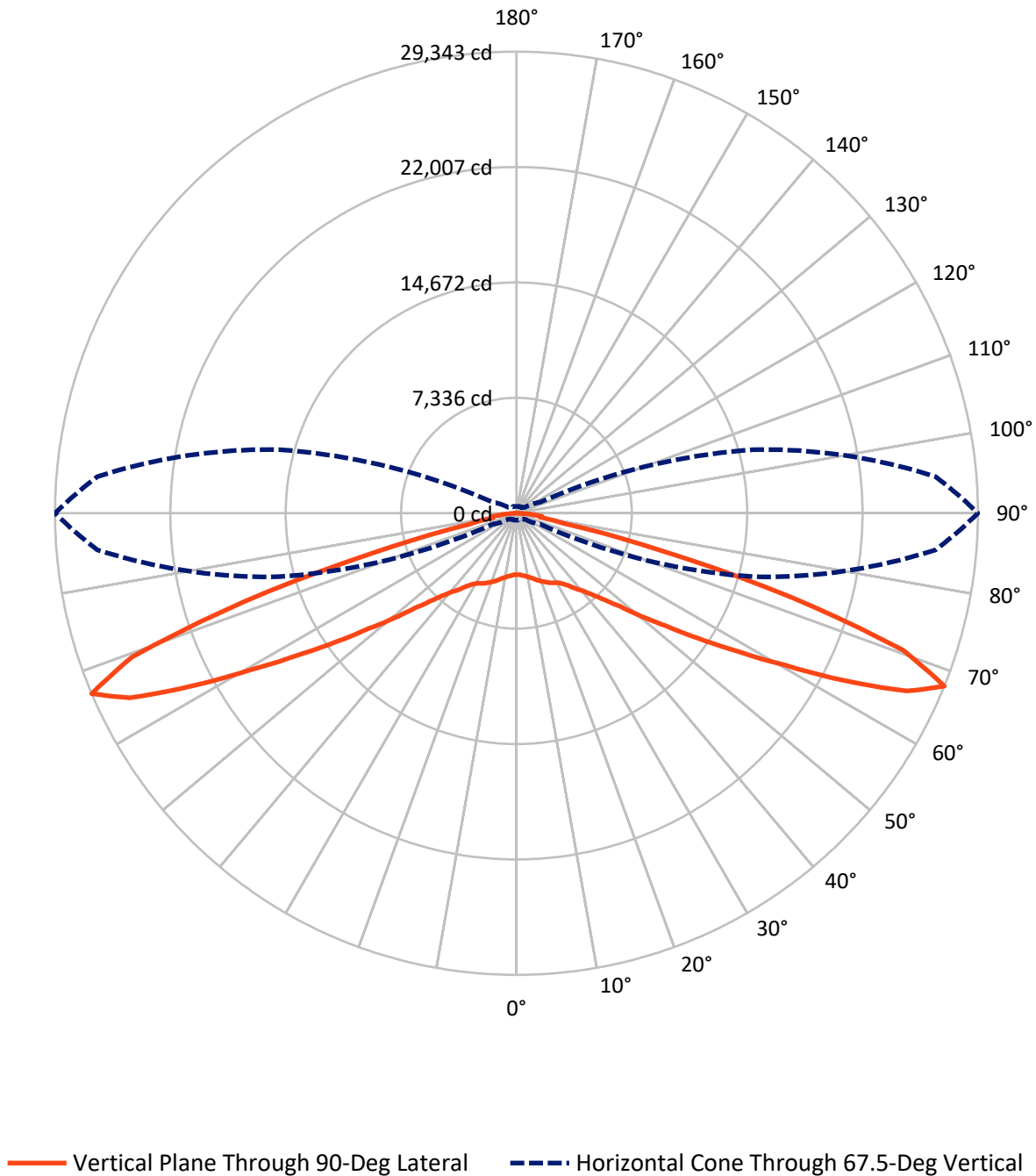
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453628

CATALOG NUMBER: GALN-SA4C-830-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P453628

CATALOG NUMBER: GALN-SA4C-830-U-T1

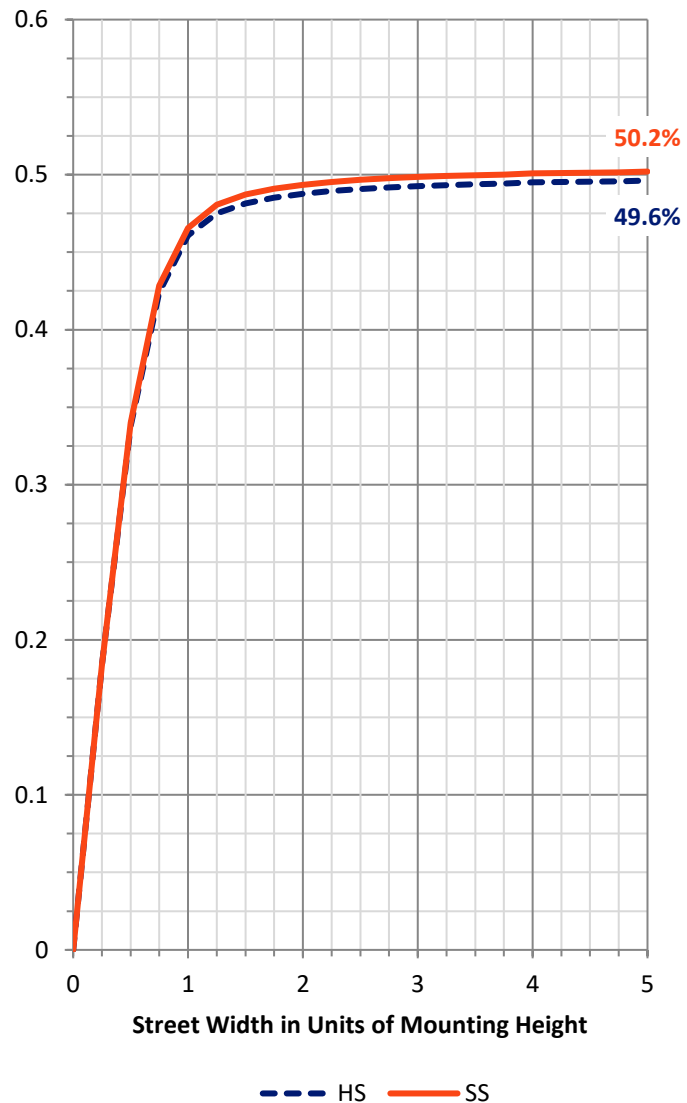
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11031.0	0.0	11031.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11031.0	0.0	11031.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	22062.0	0.0	22062.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.4	1.8
10°-20°	1245.9	5.6
20°-30°	2085.2	9.5
30°-40°	2825.0	12.8
40°-50°	3578.3	16.2
50°-60°	4470.1	20.3
60°-70°	5254.4	23.8
70°-80°	2010.1	9.1
80°-90°	203.6	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°	22062.0	100.0
0°-180°	22062.0	100.0

Coefficient of Utilization



REPORT NUMBER: P453628

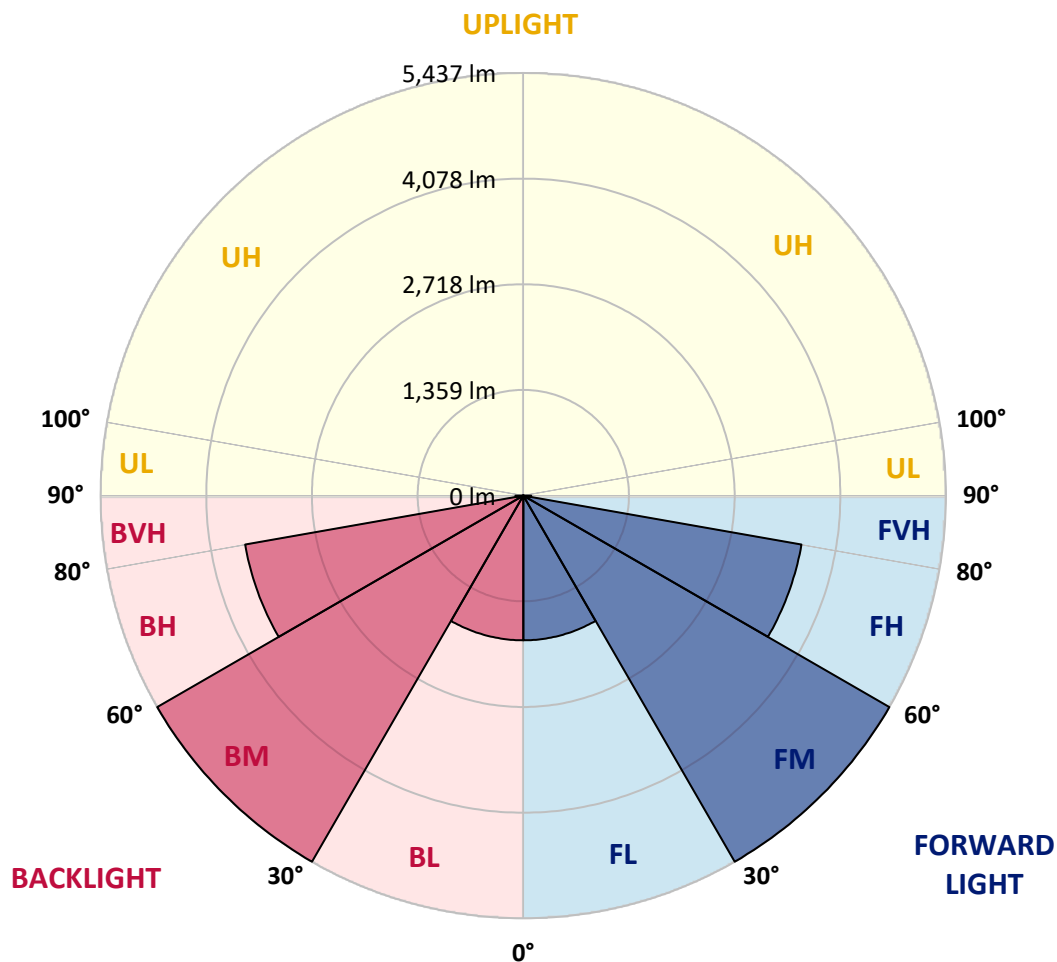
CATALOG NUMBER: GALN-SA4C-830-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1860.2	8.4			
FM	(30°-60°)	5436.7	24.6			
FH	(60°-80°)	3632.3	16.5			G2/5000
FVH	(80°-90°)	101.8	0.5			G2/225
BL	(0°-30°)	1860.2	8.4	B3/2500		
BM	(30°-60°)	5436.7	24.6	B4/8500		
BH	(60°-80°)	3632.3	16.5	B4/5000		G4/5000
BVH	(80°-90°)	101.8	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





REPORT NUMBER: P453628

CATALOG NUMBER: GALN-SA4C-830-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3905.7	3905.7	3905.7	3905.7	3905.7	3905.7	3905.7	3905.7	3905.7	3905.7	3905.7
2.5°	3955.7	3953.3	3954.5	3953.3	3957.0	3954.5	3939.9	3927.7	3917.9	3919.1	3915.4
5°	4040.0	4041.3	4042.5	4036.4	4044.9	4040.0	4016.8	3997.3	3977.7	3970.4	3968.0
7.5°	4109.7	4115.8	4119.5	4125.6	4140.2	4140.2	4128.0	4099.9	4057.1	4032.7	4031.5
10°	4179.3	4184.2	4195.2	4214.7	4239.2	4262.4	4257.5	4219.6	4164.7	4123.1	4113.3
12.5°	4203.7	4209.9	4246.5	4302.7	4357.7	4402.9	4402.9	4372.3	4301.5	4238.0	4219.6
15°	4118.2	4129.2	4195.2	4314.9	4459.1	4558.0	4580.0	4537.3	4461.5	4363.8	4341.8
17.5°	3948.4	3975.3	4071.8	4248.9	4488.4	4693.6	4757.2	4736.4	4638.7	4514.0	4488.4
20°	3766.4	3795.7	3898.3	4132.9	4464.0	4773.0	4957.5	4962.4	4841.5	4660.6	4622.8
22.5°	3566.0	3588.0	3720.0	3994.8	4390.7	4791.4	5129.8	5214.1	5050.4	4807.2	4753.5
25°	3341.3	3365.7	3503.7	3800.6	4252.6	4770.6	5287.4	5473.1	5269.0	4963.6	4895.2
27.5°	3126.2	3136.0	3283.8	3585.6	4070.6	4716.8	5403.4	5711.3	5510.9	5093.1	5006.4
30°	2919.8	2943.0	3073.7	3371.8	3861.7	4611.8	5503.6	5982.5	5771.1	5228.7	5117.6
32.5°	2701.1	2729.2	2870.9	3172.7	3652.8	4454.2	5564.7	6279.4	6134.0	5448.6	5330.1
35°	2491.0	2509.3	2652.2	2945.4	3448.8	4270.9	5575.7	6614.1	6601.9	5782.1	5624.5
37.5°	2276.0	2302.8	2447.0	2728.0	3232.5	4076.7	5520.7	6969.6	7166.3	6245.1	6075.3
40°	2069.5	2092.7	2234.4	2517.9	2987.0	3839.7	5390.0	7294.6	7824.8	6721.6	6480.9
42.5°	1844.7	1850.8	2006.0	2294.3	2746.3	3564.8	5201.8	7584.1	8559.0	7360.5	7061.2
45°	1589.4	1605.3	1749.4	2032.8	2470.2	3257.0	4946.5	7823.5	9489.9	8246.2	7838.2
47.5°	1334.1	1347.5	1479.4	1759.2	2168.5	2903.9	4553.1	8033.7	10445.2	9371.4	8836.3
50°	1084.8	1092.2	1199.7	1447.7	1828.8	2532.5	4065.7	8100.9	11525.2	10964.4	10281.5
52.5°	857.6	868.6	950.5	1144.7	1466.0	2093.9	3539.2	7934.7	12785.9	12853.1	11890.5
55°	695.1	698.8	759.9	902.8	1145.9	1634.6	2903.9	7471.7	14142.0	15273.2	14045.5
57.5°	598.6	601.1	635.3	714.7	882.0	1232.7	2252.7	6595.8	15360.0	18108.7	16530.3
60°	543.6	544.9	564.4	610.8	698.8	945.6	1613.8	5359.4	16562.1	21264.3	19618.7
62.5°	509.4	509.4	522.9	548.5	591.3	725.7	1169.1	3866.6	17385.5	24466.3	23425.4
65°	476.4	476.4	486.2	504.5	527.8	593.7	863.7	2521.5	17364.7	26798.4	27254.1
67.5°	438.6	438.6	445.9	464.2	477.7	510.7	667.0	1651.7	15598.2	26747.1	29343.2
70°	393.4	393.4	403.1	419.0	430.0	450.8	526.5	1130.0	11459.2	22837.8	26096.0
72.5°	348.2	349.4	355.5	371.4	379.9	392.2	437.4	791.6	7029.5	15550.6	18246.8
75°	298.1	300.5	306.6	322.5	329.8	334.7	368.9	564.4	3556.3	8384.3	9546.1
77.5°	240.7	245.6	249.2	266.3	271.2	278.5	304.2	408.0	1561.3	3012.6	3039.5
80°	175.9	182.0	193.0	208.9	212.6	217.5	232.1	289.5	707.3	1375.6	1494.1
82.5°	129.5	138.0	124.6	145.4	145.4	139.3	163.7	194.2	325.0	1362.2	1629.7
85°	70.9	72.1	64.7	74.5	79.4	78.2	86.7	95.3	157.6	908.9	937.0
87.5°	17.1	18.3	19.5	23.2	28.1	28.1	30.5	26.9	51.3	294.4	168.6
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)