

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: P456615

Luminaire Tested: **GALN-SA7D-827-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456615
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-SA7D-827-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39540 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

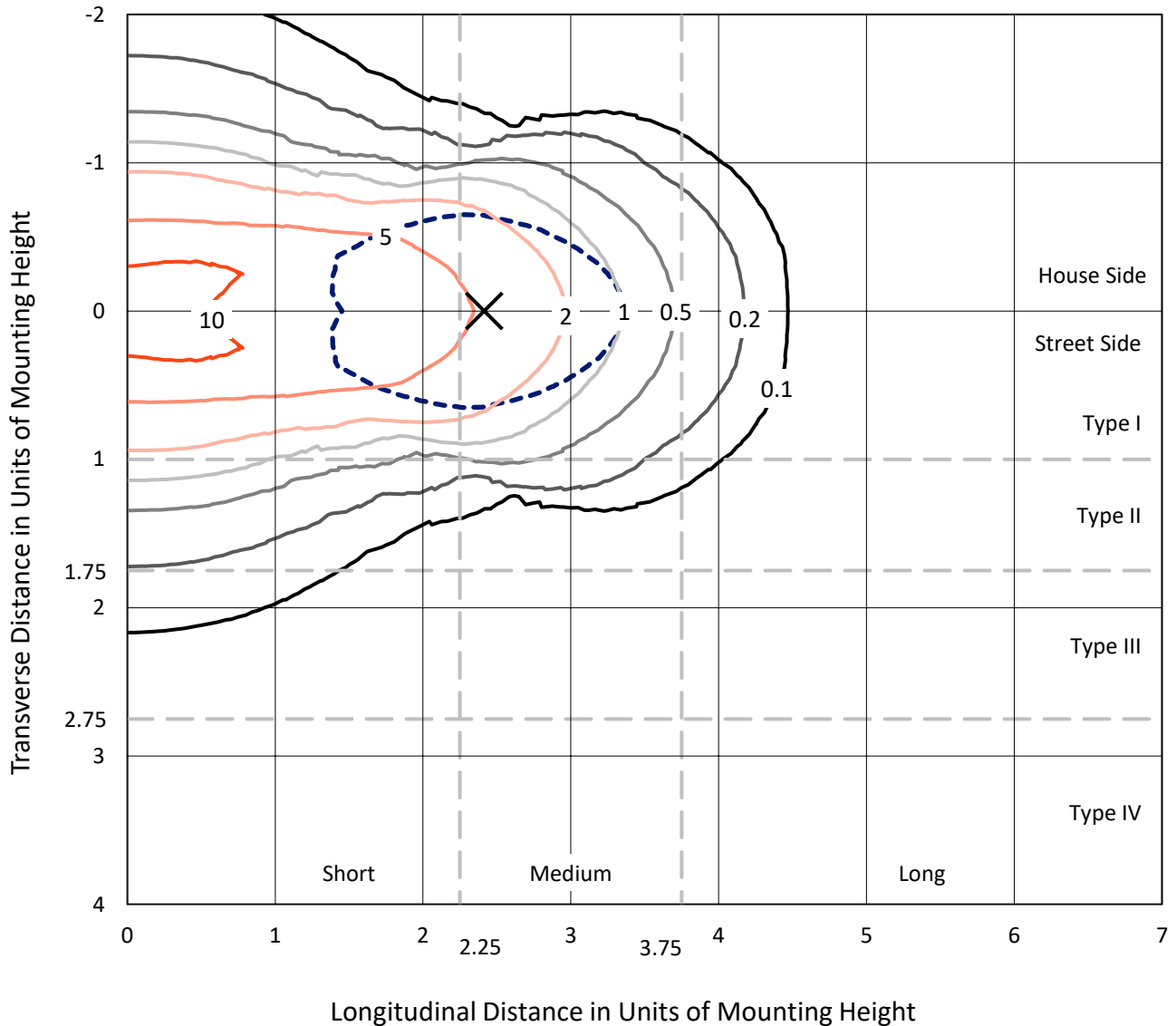
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456615
 CATALOG NUMBER: GALN-SA7D-827-U-T1

Iso-Footcandle Lines of Horizontal Illumination

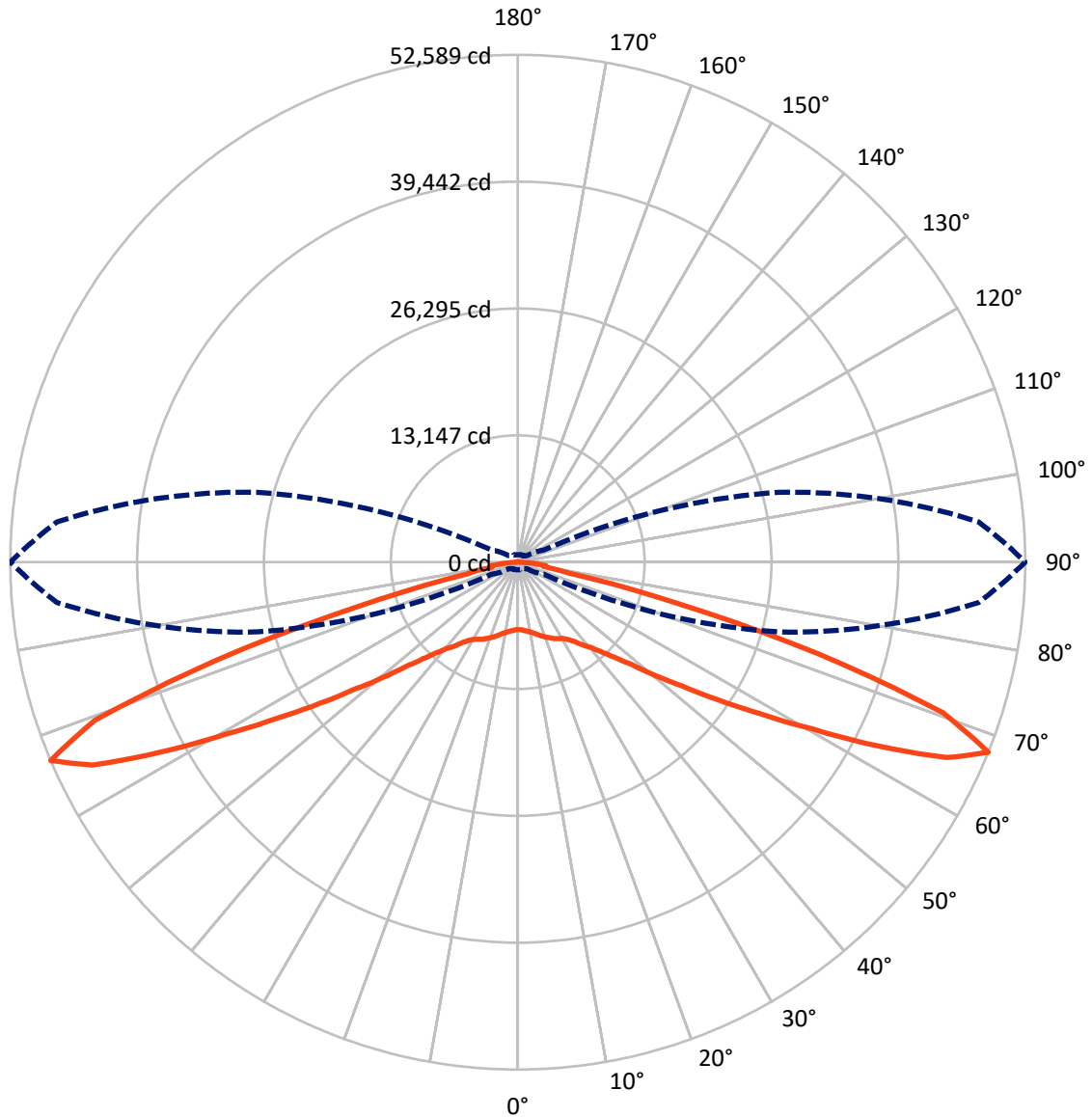
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type I - Short - N/A

REPORT NUMBER: P456615
CATALOG NUMBER: GALN-SA7D-827-U-T1

Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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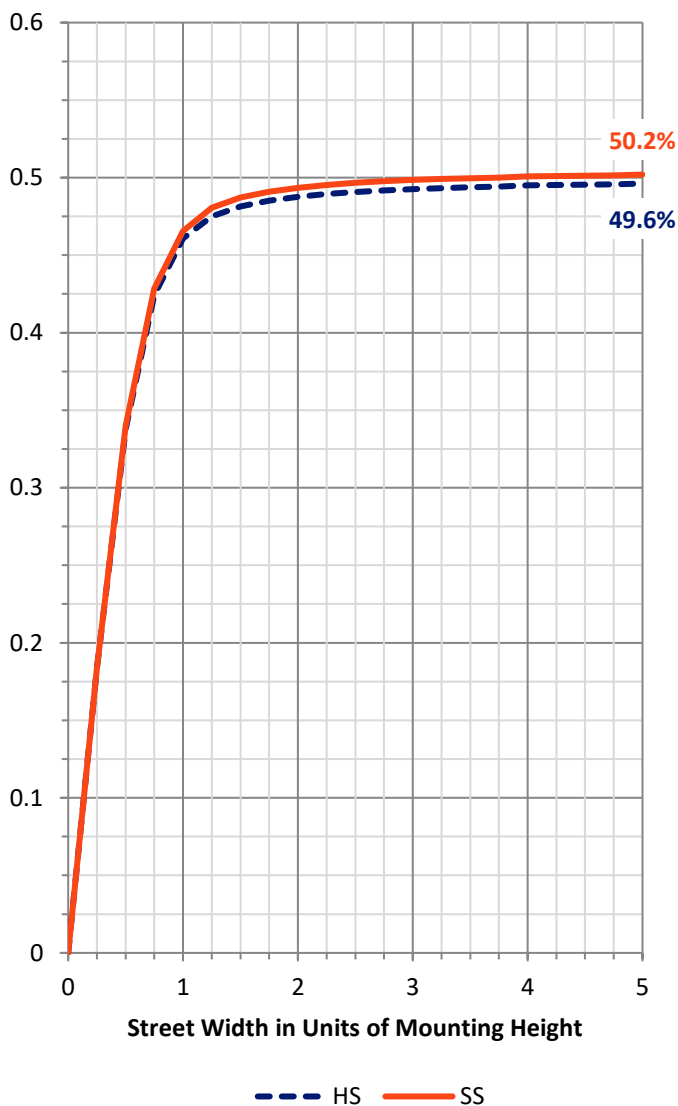
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19770.0	0.0	19770.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19770.0	0.0	19770.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	39540.0	0.0	39540.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	697.9	1.8
10°-20°	2232.8	5.6
20°-30°	3737.2	9.5
30°-40°	5062.9	12.8
40°-50°	6413.0	16.2
50°-60°	8011.5	20.3
60°-70°	9417.2	23.8
70°-80°	3602.5	9.1
80°-90°	365.0	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°	39540.0	100.0
0°-180°	39540.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456615

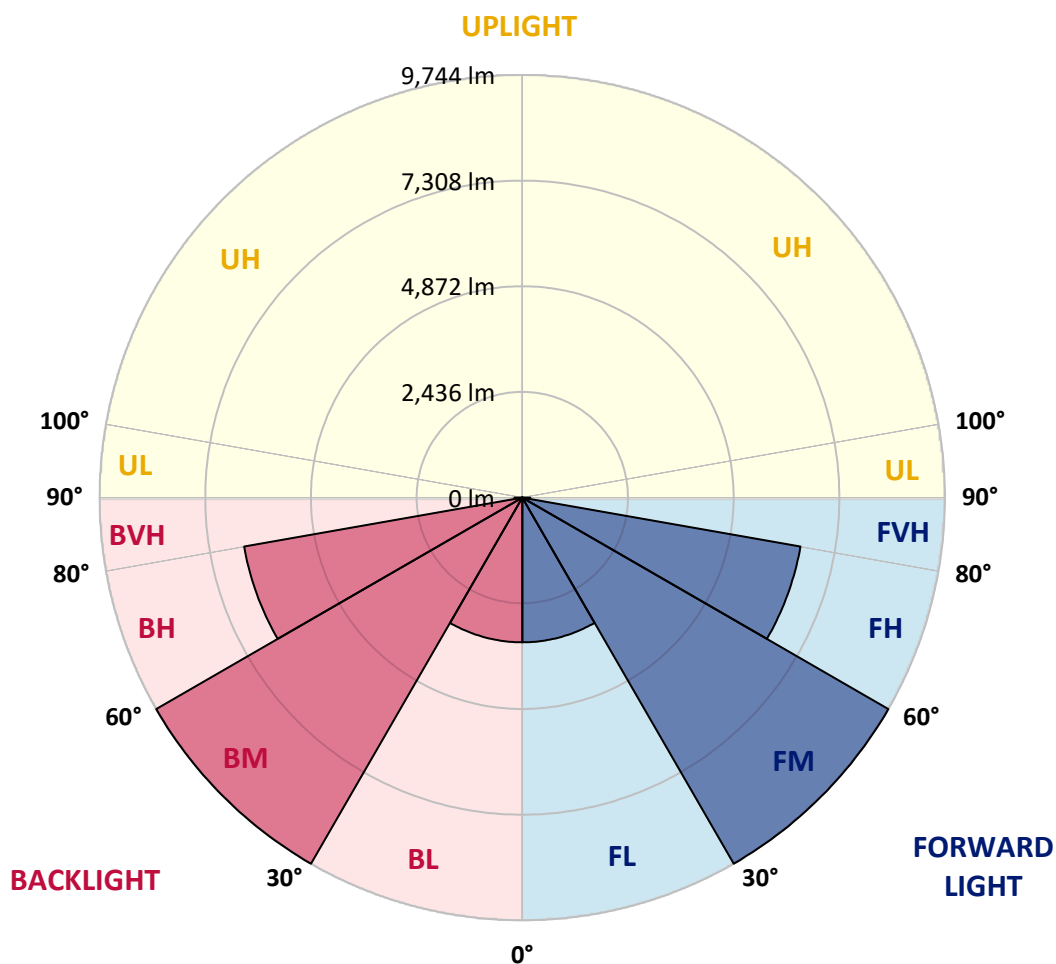
CATALOG NUMBER: GALN-SA7D-827-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3334.0	8.4			
FM (30°-60°)	9743.7	24.6			
FH (60°-80°)	6509.8	16.5			G3/7500
FVH (80°-90°)	182.5	0.5			G2/225
BL (0°-30°)	3334.0	8.4	B4/5000		
BM (30°-60°)	9743.7	24.6	B5		
BH (60°-80°)	6509.8	16.5	B5		G5
BVH (80°-90°)	182.5	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6999.8	6999.8	6999.8	6999.8	6999.8	6999.8	6999.8	6999.8	6999.8	6999.8	6999.8
2.5°	7089.6	7085.2	7087.4	7085.2	7091.8	7087.4	7061.1	7039.2	7021.7	7023.9	7017.3
5°	7240.7	7242.8	7245.0	7234.1	7249.4	7240.7	7199.1	7164.0	7129.0	7115.9	7111.5
7.5°	7365.5	7376.4	7383.0	7393.9	7420.2	7420.2	7398.3	7347.9	7271.3	7227.5	7225.3
10°	7490.3	7499.0	7518.7	7553.8	7597.5	7639.1	7630.4	7562.5	7464.0	7389.5	7372.0
12.5°	7534.0	7545.0	7610.7	7711.4	7809.9	7890.9	7890.9	7836.2	7709.2	7595.4	7562.5
15°	7380.8	7400.5	7518.7	7733.3	7991.7	8169.0	8208.4	8131.8	7996.0	7820.9	7781.5
17.5°	7076.4	7124.6	7297.6	7615.1	8044.2	8412.0	8525.9	8488.7	8313.5	8090.2	8044.2
20°	6750.2	6802.8	6986.7	7407.1	8000.4	8554.4	8885.0	8893.7	8677.0	8352.9	8285.0
22.5°	6391.1	6430.5	6667.0	7159.6	7869.0	8587.2	9193.7	9344.8	9051.4	8615.7	8519.3
25°	5988.3	6032.1	6279.5	6811.5	7621.6	8550.0	9476.1	9808.9	9443.3	8895.9	8773.3
27.5°	5602.9	5620.4	5885.4	6426.2	7295.4	8453.6	9684.1	10235.9	9876.8	9128.0	8972.5
30°	5232.9	5274.5	5508.8	6043.0	6921.0	8265.3	9863.7	10722.0	10343.2	9371.0	9171.8
32.5°	4841.0	4891.3	5145.3	5686.1	6546.6	7982.9	9973.1	11254.0	10993.4	9765.1	9552.8
35°	4464.4	4497.2	4753.4	5278.9	6180.9	7654.5	9992.8	11853.9	11832.0	10362.9	10080.4
37.5°	4079.0	4127.2	4385.6	4889.1	5793.4	7306.3	9894.3	12491.1	12843.6	11192.7	10888.4
40°	3709.0	3750.6	4004.6	4512.5	5353.3	6881.6	9660.0	13073.5	14023.7	12046.6	11615.3
42.5°	3306.1	3317.1	3595.1	4111.9	4922.0	6388.9	9322.9	13592.4	15339.6	13191.7	12655.3
45°	2848.5	2877.0	3135.4	3643.3	4427.2	5837.2	8865.3	14021.5	17008.0	14779.1	14047.8
47.5°	2390.9	2415.0	2651.5	3152.9	3886.4	5204.4	8160.2	14398.1	18720.2	16795.6	15836.6
50°	1944.3	1957.4	2150.1	2594.5	3277.7	4538.8	7286.6	14518.5	20655.7	19650.7	18426.8
52.5°	1537.0	1556.7	1703.4	2051.6	2627.4	3752.8	6343.0	14220.8	22915.2	23035.7	21310.3
55°	1245.8	1252.4	1361.9	1618.0	2053.7	2929.5	5204.4	13390.9	25345.6	27373.0	25172.6
57.5°	1072.9	1077.2	1138.5	1280.9	1580.8	2209.2	4037.4	11821.1	27528.5	32454.9	29626.0
60°	974.3	976.5	1011.5	1094.7	1252.4	1694.7	2892.3	9605.3	29683.0	38110.3	35161.1
62.5°	913.0	913.0	937.1	983.1	1059.7	1300.6	2095.3	6929.7	31158.7	43849.0	41983.5
65°	853.9	853.9	871.4	904.3	945.9	1064.1	1548.0	4519.1	31121.5	48028.7	48845.4
67.5°	786.0	786.0	799.2	832.0	856.1	915.2	1195.5	2960.2	27955.5	47936.8	52589.4
70°	705.0	705.0	722.5	751.0	770.7	807.9	943.7	2025.3	20537.5	40930.4	46769.8
72.5°	624.0	626.2	637.1	665.6	680.9	702.8	783.8	1418.8	12598.3	27870.1	32702.3
75°	534.2	538.6	549.6	578.0	591.2	599.9	661.2	1011.5	6373.6	15026.5	17108.7
77.5°	431.3	440.1	446.7	477.3	486.1	499.2	545.2	731.3	2798.2	5399.3	5447.5
80°	315.3	326.2	345.9	374.4	381.0	389.7	416.0	518.9	1267.7	2465.4	2677.8
82.5°	232.1	247.4	223.3	260.5	260.5	249.6	293.4	348.1	582.4	2441.3	2920.8
85°	127.0	129.2	116.0	133.6	142.3	140.1	155.5	170.8	282.4	1629.0	1679.3
87.5°	30.7	32.8	35.0	41.6	50.4	50.4	54.7	48.2	92.0	527.7	302.2
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)