

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: P455774

Luminaire Tested: **GALN-SA7A-727-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455774
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-SA7A-727-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26592 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

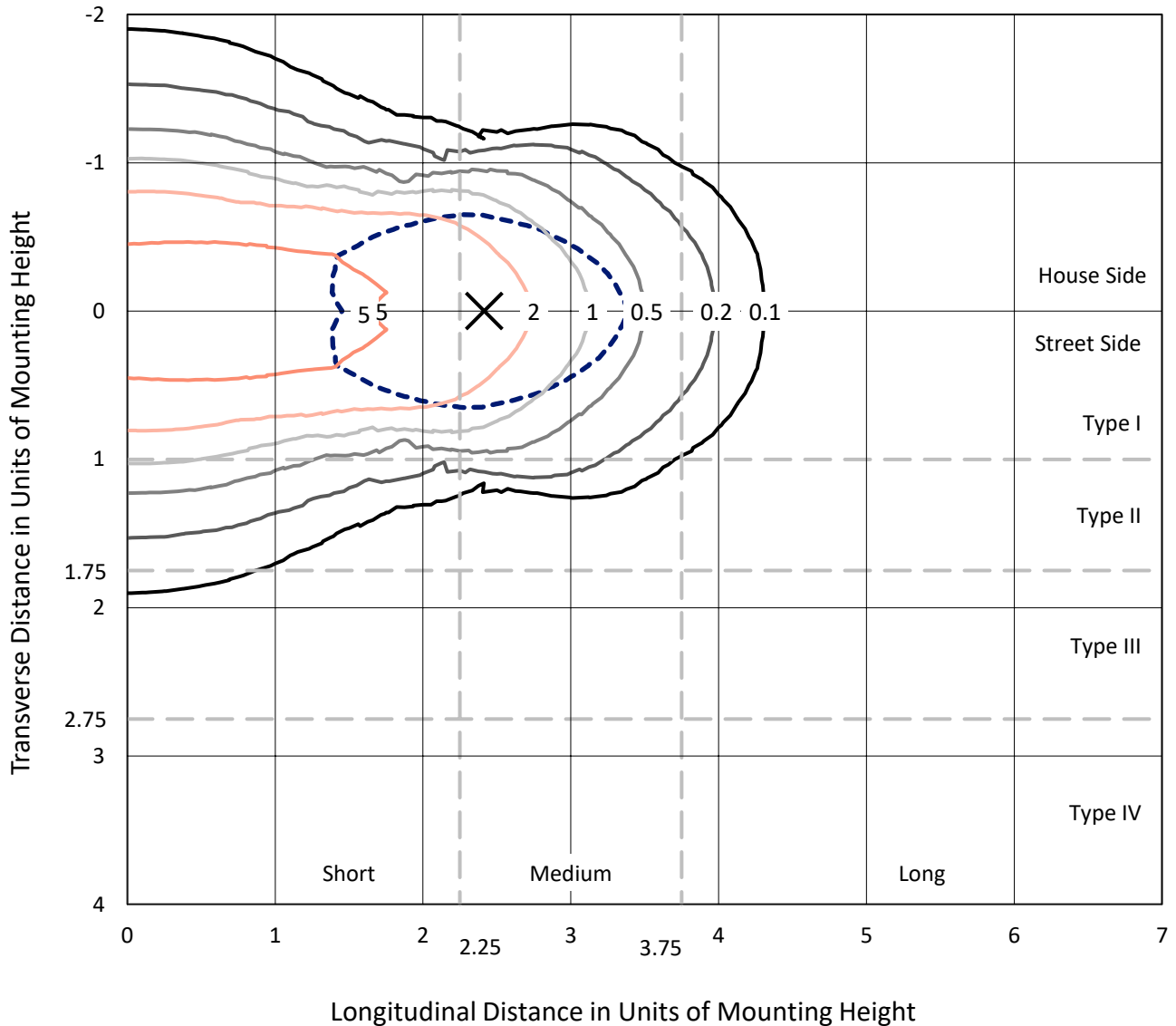
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455774
 CATALOG NUMBER: GALN-SA7A-727-U-T1

Iso-Footcandle Lines of Horizontal Illumination

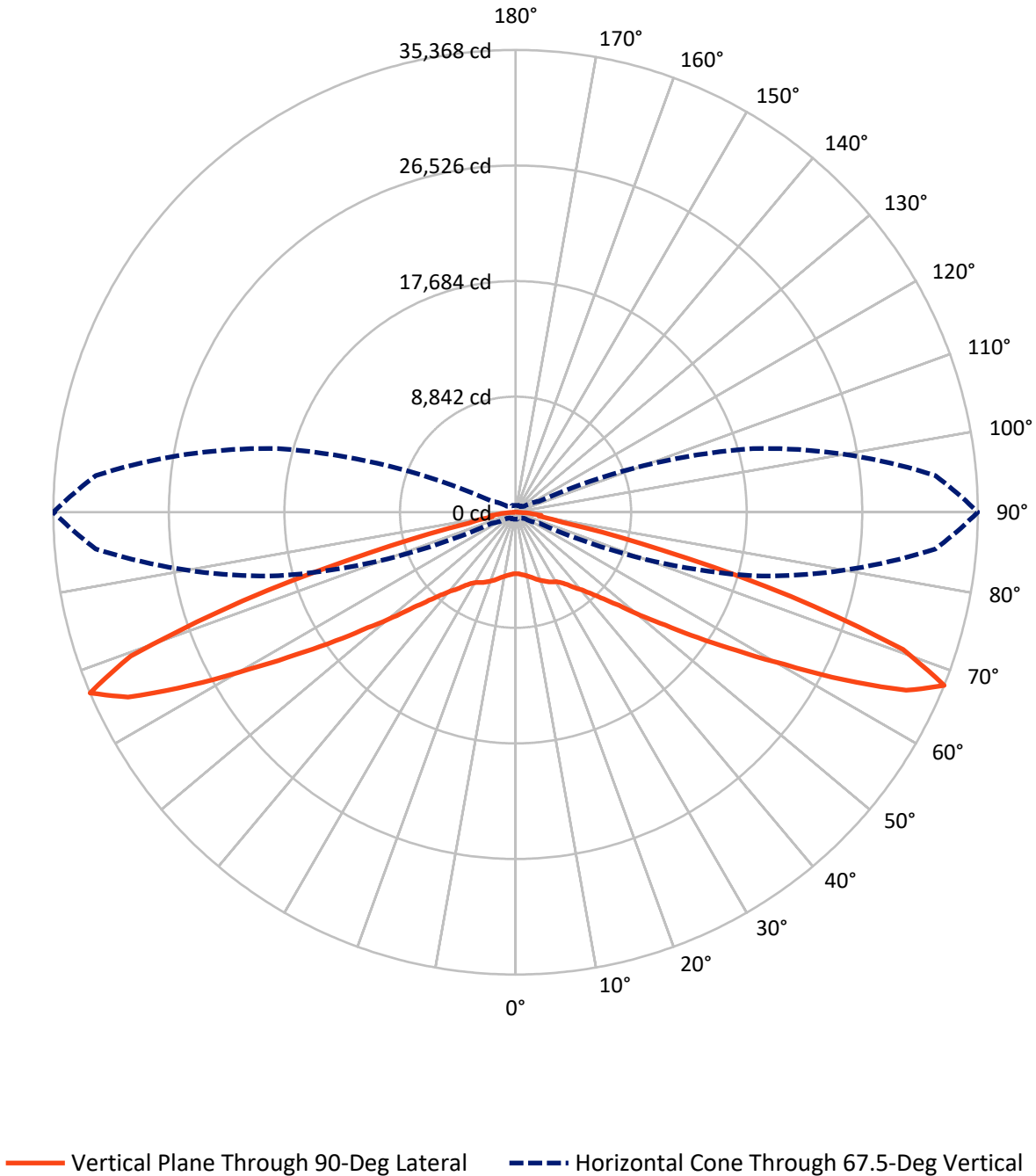
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type I - Short - N/A

REPORT NUMBER: P455774
CATALOG NUMBER: GALN-SA7A-727-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P455774

CATALOG NUMBER: GALN-SA7A-727-U-T1

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13296.0	0.0	13296.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13296.0	0.0	13296.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	26592.0	0.0	26592.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.3	1.8
10°-20°	1501.7	5.6
20°-30°	2513.4	9.5
30°-40°	3405.0	12.8
40°-50°	4313.0	16.2
50°-60°	5388.0	20.3
60°-70°	6333.4	23.8
70°-80°	2422.8	9.1
80°-90°	245.5	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°	26592.0	100.0
0°-180°	26592.0	100.0

Coefficient of Utilization



REPORT NUMBER: P455774

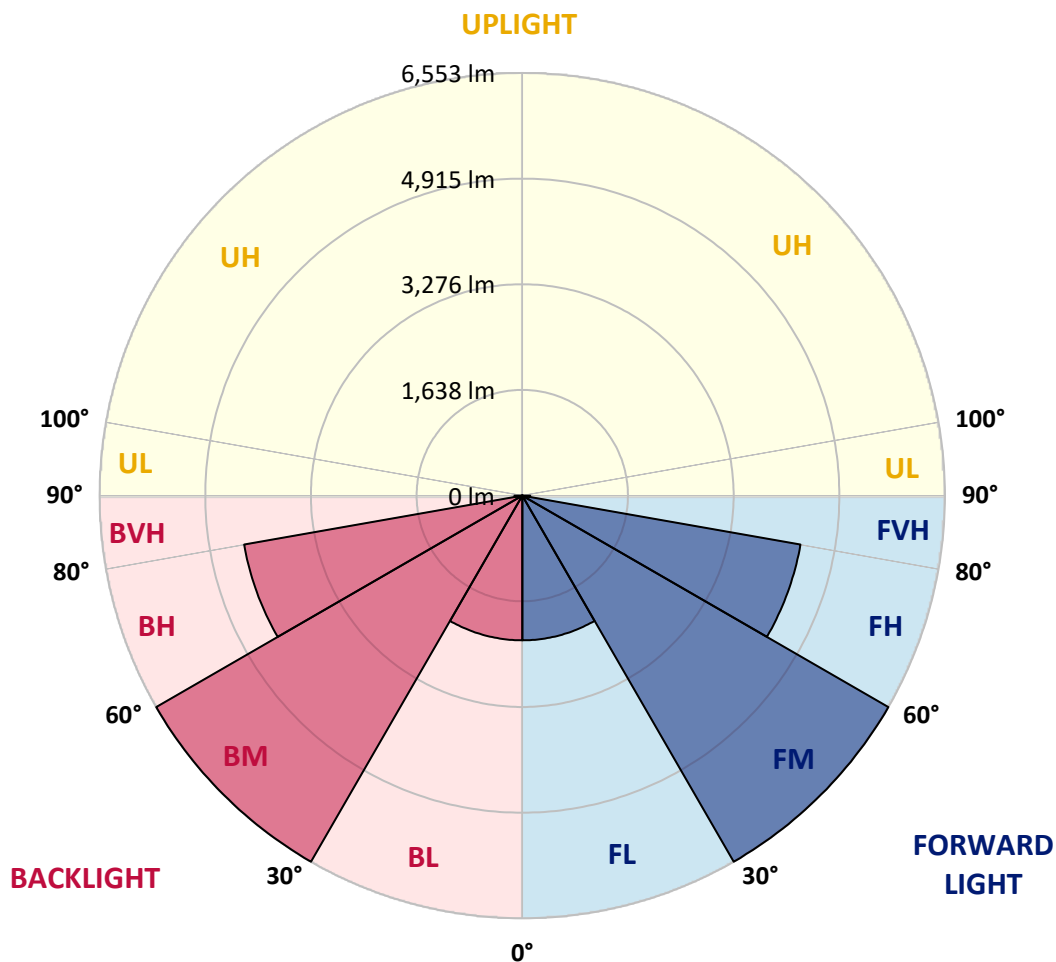
CATALOG NUMBER: GALN-SA7A-727-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2242.2	8.4			
FM	(30°-60°)	6553.0	24.6			
FH	(60°-80°)	4378.1	16.5			G2/5000
FVH	(80°-90°)	122.7	0.5			G2/225
BL	(0°-30°)	2242.2	8.4	B3/2500		
BM	(30°-60°)	6553.0	24.6	B4/8500		
BH	(60°-80°)	4378.1	16.5	B4/5000		G4/5000
BVH	(80°-90°)	122.7	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°	4707.6	4707.6	4707.6	4707.6	4707.6	4707.6	4707.6	4707.6	4707.6	4707.6	4707.6
2.5°	4768.0	4765.0	4766.5	4765.0	4769.5	4766.5	4748.8	4734.1	4722.3	4723.8	4719.4
5°	4869.6	4871.1	4872.5	4865.2	4875.5	4869.6	4841.6	4818.1	4794.5	4785.7	4782.7
7.5°	4953.5	4960.9	4965.3	4972.7	4990.3	4990.3	4975.6	4941.7	4890.2	4860.8	4859.3
10°	5037.5	5043.3	5056.6	5080.2	5109.6	5137.6	5131.7	5086.0	5019.8	4969.7	4957.9
12.5°	5066.9	5074.3	5118.4	5186.2	5252.4	5306.9	5306.9	5270.1	5184.7	5108.1	5086.0
15°	4963.8	4977.1	5056.6	5200.9	5374.7	5493.9	5520.4	5468.9	5377.6	5259.8	5233.3
17.5°	4759.1	4791.5	4907.9	5121.4	5410.0	5657.4	5734.0	5708.9	5591.1	5440.9	5410.0
20°	4539.7	4575.1	4698.8	4981.5	5380.5	5753.1	5975.4	5981.3	5835.6	5617.6	5572.0
22.5°	4298.3	4324.8	4483.8	4815.1	5292.2	5775.2	6183.1	6284.7	6087.4	5794.3	5729.5
25°	4027.3	4056.8	4223.2	4581.0	5125.8	5750.1	6373.0	6596.8	6350.9	5982.8	5900.3
27.5°	3768.2	3779.9	3958.1	4321.8	4906.4	5685.4	6512.9	6884.0	6642.5	6138.9	6034.3
30°	3519.3	3547.3	3704.8	4064.1	4654.6	5558.7	6633.7	7210.9	6956.1	6302.3	6168.3
32.5°	3255.7	3289.6	3460.4	3824.1	4402.8	5368.8	6707.3	7568.7	7393.5	6567.4	6424.6
35°	3002.4	3024.5	3196.8	3550.2	4156.9	5147.9	6720.5	7972.2	7957.4	6969.4	6779.4
37.5°	2743.3	2775.7	2949.4	3288.1	3896.3	4913.8	6654.3	8400.7	8637.7	7527.5	7322.8
40°	2494.4	2522.4	2693.2	3034.8	3600.3	4628.1	6496.7	8792.4	9431.4	8101.7	7811.7
42.5°	2223.5	2230.9	2417.9	2765.4	3310.2	4296.8	6269.9	9141.3	10316.4	8871.9	8511.1
45°	1915.7	1934.9	2108.6	2450.3	2977.4	3925.7	5962.2	9429.9	11438.5	9939.4	9447.6
47.5°	1608.0	1624.2	1783.2	2120.4	2613.7	3500.2	5488.0	9683.2	12590.0	11295.6	10650.7
50°	1307.6	1316.4	1446.0	1744.9	2204.3	3052.5	4900.5	9764.2	13891.7	13215.8	12392.6
52.5°	1033.7	1047.0	1145.6	1379.7	1767.0	2523.9	4265.9	9563.9	15411.3	15492.3	14331.9
55°	837.9	842.3	915.9	1088.2	1381.2	1970.2	3500.2	9005.9	17045.8	18409.3	16929.4
57.5°	721.5	724.5	765.7	861.4	1063.2	1485.8	2715.3	7950.1	18513.9	21827.0	19924.5
60°	655.3	656.7	680.3	736.3	842.3	1139.7	1945.2	6459.9	19962.8	25630.5	23647.0
62.5°	614.0	614.0	630.2	661.2	712.7	874.7	1409.2	4660.5	20955.3	29489.9	28235.4
65°	574.3	574.3	586.1	608.1	636.1	715.6	1041.1	3039.3	20930.2	32301.0	32850.2
67.5°	528.6	528.6	537.5	559.6	575.8	615.5	804.0	1990.8	18801.0	32239.1	35368.2
70°	474.1	474.1	485.9	505.1	518.3	543.4	634.7	1362.1	13812.1	27527.1	31454.3
72.5°	419.7	421.1	428.5	447.6	458.0	472.7	527.2	954.2	8472.8	18743.6	21993.4
75°	359.3	362.2	369.6	388.7	397.6	403.5	444.7	680.3	4286.5	10105.8	11506.2
77.5°	290.1	296.0	300.4	321.0	326.9	335.7	366.7	491.8	1881.9	3631.2	3663.6
80°	212.0	219.4	232.7	251.8	256.2	262.1	279.8	349.0	852.6	1658.0	1800.9
82.5°	156.1	166.4	150.2	175.2	175.2	167.9	197.3	234.1	391.7	1641.8	1964.3
85°	85.4	86.9	78.0	89.8	95.7	94.2	104.5	114.9	190.0	1095.5	1129.4
87.5°	20.6	22.1	23.6	28.0	33.9	33.9	36.8	32.4	61.8	354.9	203.2
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)