

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: P458993

Luminaire Tested: **GALN-SA5A-735-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458993
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-SA5A-735-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21296 lumens
Efficiency: N/A
Efficacy: 138.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

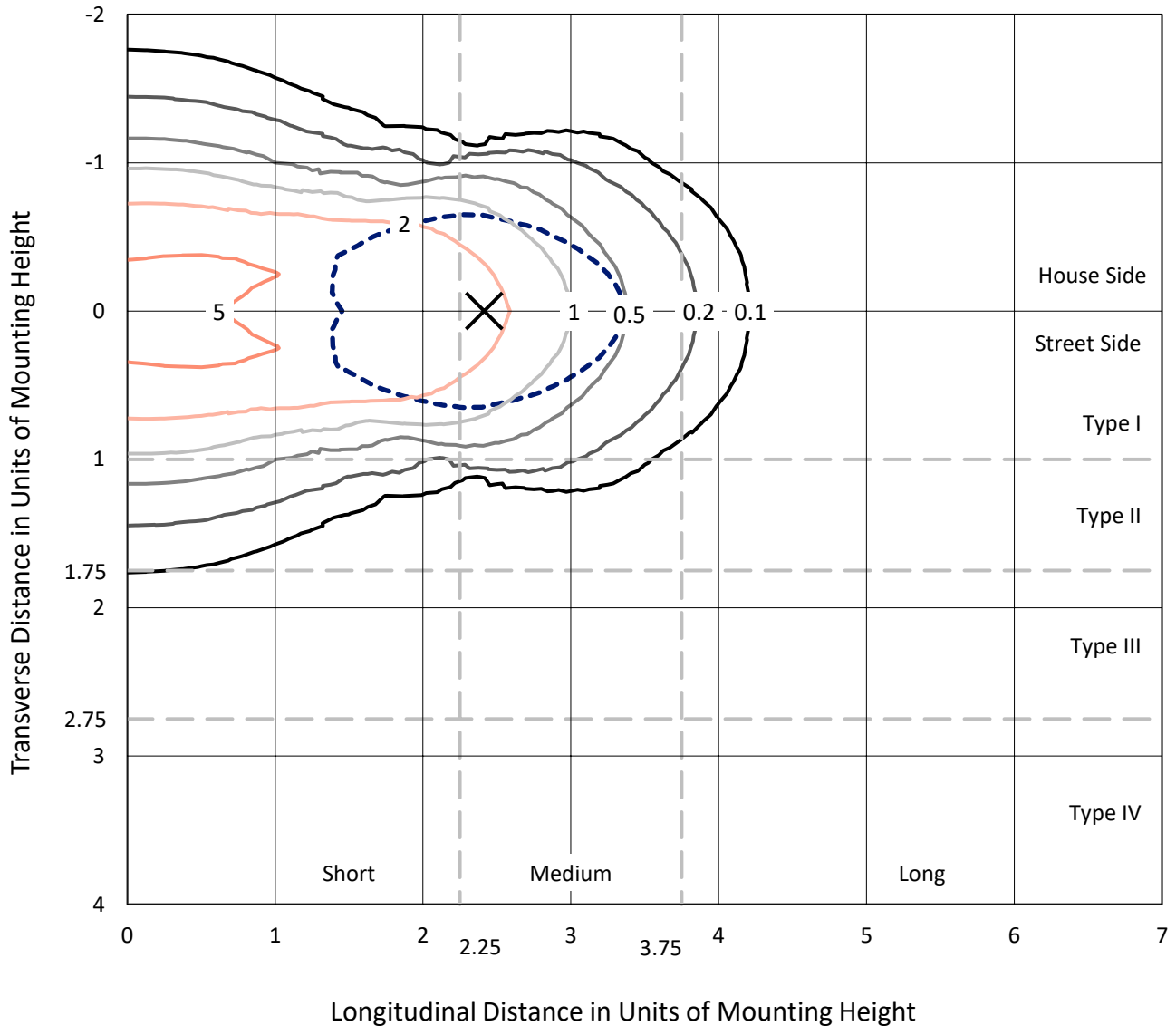
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458993
 CATALOG NUMBER: GALN-SA5A-735-U-T1

Iso-Footcandle Lines of Horizontal Illumination

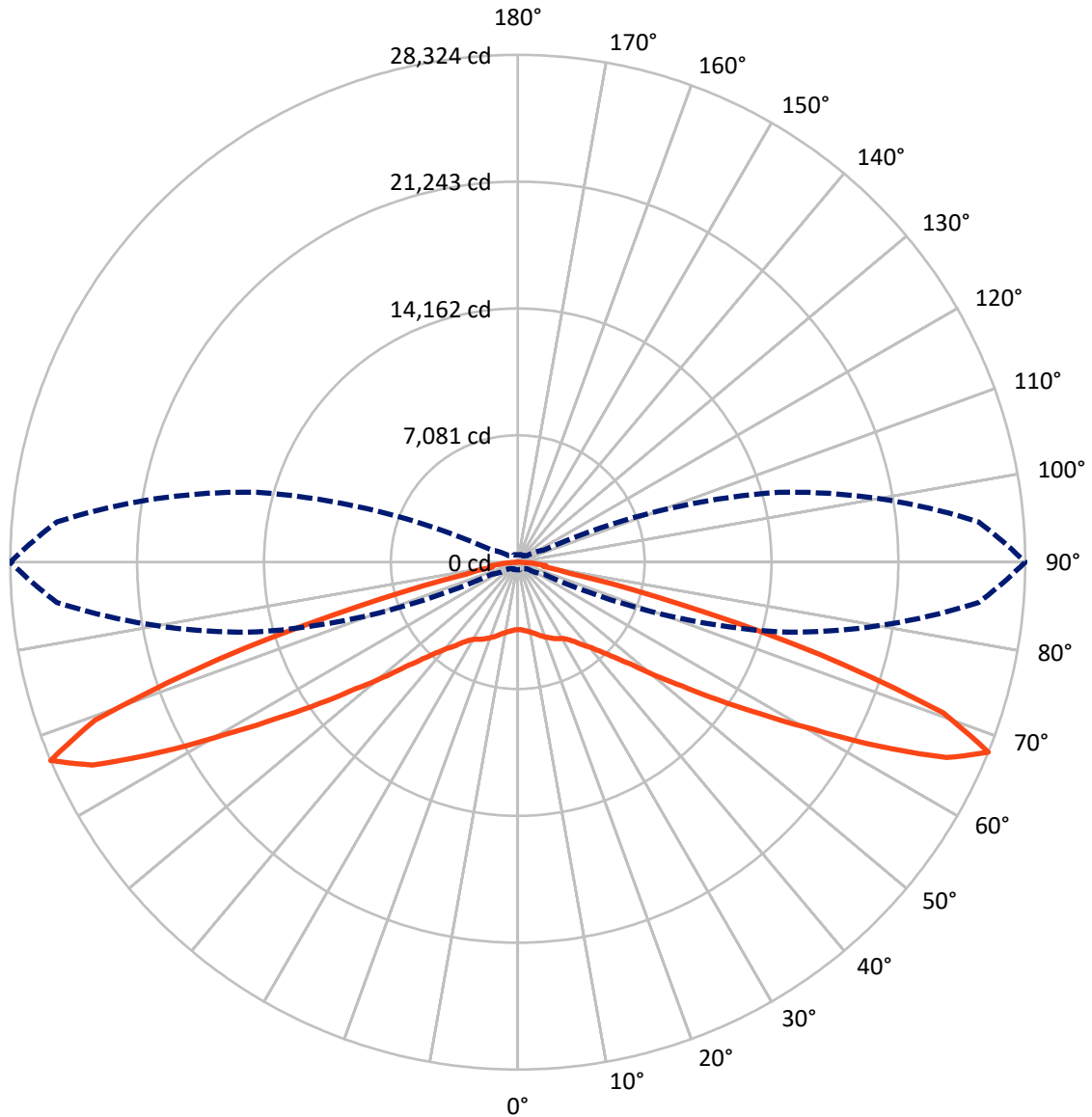
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type I - Short - N/A

REPORT NUMBER: P458993
CATALOG NUMBER: GALN-SA5A-735-U-T1

Luminous Intensity Polar Plot



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

REPORT NUMBER: P458993

CATALOG NUMBER: GALN-SA5A-735-U-T1

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10648.0	0.0	10648.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10648.0	0.0	10648.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21296.0	0.0	21296.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.9	1.8
10°-20°	1202.6	5.6
20°-30°	2012.8	9.5
30°-40°	2726.9	12.8
40°-50°	3454.0	16.2
50°-60°	4314.9	20.3
60°-70°	5072.0	23.8
70°-80°	1940.3	9.1
80°-90°	196.6	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°	21296.0	100.0
0°-180°	21296.0	100.0



REPORT NUMBER: P458993

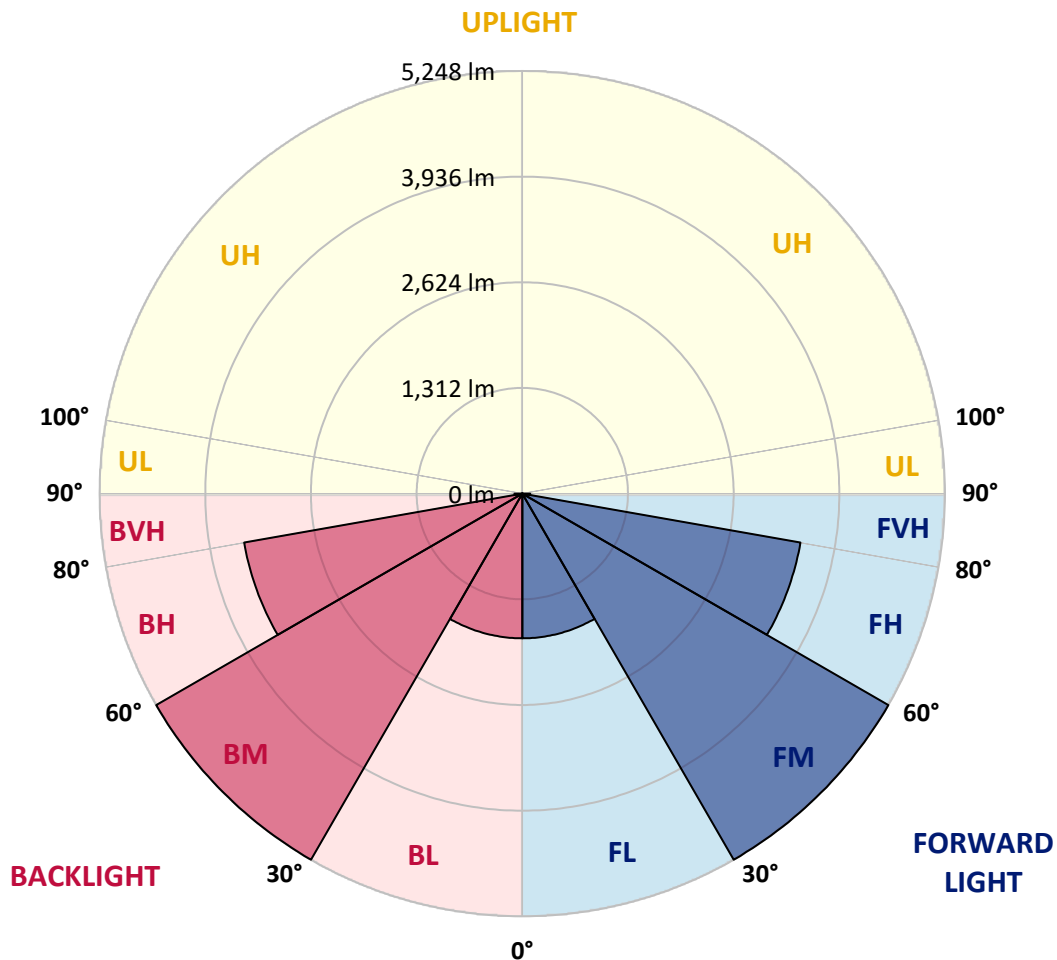
CATALOG NUMBER: GALN-SA5A-735-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1795.7	8.4			
FM (30°-60°)	5247.9	24.6			
FH (60°-80°)	3506.1	16.5			G2/5000
FVH (80°-90°)	98.3	0.5			G1/100
BL (0°-30°)	1795.7	8.4	B3/2500		
BM (30°-60°)	5247.9	24.6	B4/8500		
BH (60°-80°)	3506.1	16.5	B4/5000		G4/5000
BVH (80°-90°)	98.3	0.5			G1/100
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: P458993
 CATALOG NUMBER: GALN-SA5A-735-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3770.1	3770.1	3770.1	3770.1	3770.1	3770.1	3770.1	3770.1	3770.1	3770.1	3770.1
2.5°	3818.4	3816.0	3817.2	3816.0	3819.6	3817.2	3803.1	3791.3	3781.8	3783.0	3779.5
5°	3899.8	3901.0	3902.1	3896.2	3904.5	3899.8	3877.4	3858.5	3839.6	3832.6	3830.2
7.5°	3967.0	3972.9	3976.4	3982.3	3996.5	3996.5	3984.7	3957.6	3916.3	3892.7	3891.5
10°	4034.2	4038.9	4049.5	4068.4	4092.0	4114.4	4109.7	4073.1	4020.1	3980.0	3970.5
12.5°	4057.8	4063.7	4099.1	4153.3	4206.4	4250.0	4250.0	4220.5	4152.1	4090.8	4073.1
15°	3975.2	3985.9	4049.5	4165.1	4304.3	4399.8	4421.0	4379.7	4306.6	4212.3	4191.0
17.5°	3811.3	3837.3	3930.4	4101.4	4332.6	4530.7	4592.0	4571.9	4477.6	4357.3	4332.6
20°	3635.6	3663.9	3763.0	3989.4	4309.0	4607.3	4785.4	4790.1	4673.4	4498.8	4462.3
22.5°	3442.2	3463.5	3590.8	3856.1	4238.2	4625.0	4951.7	5033.0	4875.0	4640.3	4588.5
25°	3225.2	3248.8	3382.1	3668.6	4105.0	4605.0	5103.8	5283.0	5086.1	4791.3	4725.2
27.5°	3017.7	3027.1	3169.8	3461.1	3929.3	4553.1	5215.8	5513.0	5319.6	4916.3	4832.6
30°	2818.4	2840.8	2967.0	3254.7	3727.6	4451.7	5312.5	5774.8	5570.8	5047.2	4939.9
32.5°	2607.3	2634.4	2771.2	3062.5	3526.0	4299.5	5371.5	6061.3	5921.0	5259.4	5145.1
35°	2404.5	2422.2	2560.1	2843.2	3329.0	4122.7	5382.1	6384.4	6372.7	5581.4	5429.3
37.5°	2196.9	2222.9	2362.0	2633.3	3120.3	3935.1	5329.0	6727.6	6917.5	6028.3	5864.4
40°	1997.6	2020.1	2156.8	2430.4	2883.3	3706.4	5202.8	7041.3	7553.1	6488.2	6255.9
42.5°	1780.7	1786.6	1936.3	2214.6	2650.9	3441.0	5021.2	7320.8	8261.8	7105.0	6816.1
45°	1534.2	1549.5	1688.7	1962.3	2384.4	3143.9	4774.8	7551.9	9160.4	7959.9	7566.1
47.5°	1287.7	1300.7	1428.1	1698.1	2093.2	2803.1	4395.1	7754.7	10082.6	9046.0	8529.5
50°	1047.2	1054.2	1158.0	1397.4	1765.3	2444.6	3924.5	7819.6	11125.0	10583.7	9924.5
52.5°	827.8	838.4	917.5	1105.0	1415.1	2021.2	3416.3	7659.2	12342.0	12406.9	11477.6
55°	671.0	674.5	733.5	871.5	1106.1	1577.8	2803.1	7212.3	13651.0	14743.0	13557.8
57.5°	577.8	580.2	613.2	689.9	851.4	1189.9	2174.5	6366.8	14826.7	17480.0	15956.4
60°	524.8	525.9	544.8	589.6	674.5	912.7	1557.8	5173.4	15987.1	20526.0	18937.5
62.5°	491.7	491.7	504.7	529.5	570.8	700.5	1128.5	3732.3	16781.9	23616.8	22612.1
65°	459.9	459.9	469.3	487.0	509.4	573.1	833.7	2434.0	16761.8	25868.0	26307.8
67.5°	423.3	423.3	430.4	448.1	461.1	492.9	643.9	1594.3	15056.6	25818.5	28324.4
70°	379.7	379.7	389.2	404.5	415.1	435.1	508.3	1090.8	11061.3	22044.9	25189.9
72.5°	336.1	337.3	343.2	358.5	366.7	378.5	422.2	764.2	6785.4	15010.6	17613.2
75°	287.7	290.1	296.0	311.3	318.4	323.1	356.1	544.8	3432.8	8093.2	9214.6
77.5°	232.3	237.0	240.6	257.1	261.8	268.9	293.6	393.9	1507.1	2908.0	2934.0
80°	169.8	175.7	186.3	201.7	205.2	209.9	224.1	279.5	682.8	1327.8	1442.2
82.5°	125.0	133.3	120.3	140.3	140.3	134.4	158.0	187.5	313.7	1314.9	1573.1
85°	68.4	69.6	62.5	71.9	76.7	75.5	83.7	92.0	152.1	877.4	904.5
87.5°	16.5	17.7	18.9	22.4	27.1	27.1	29.5	25.9	49.5	284.2	162.7
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)