

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: P458906

Luminaire Tested: **GALN-SA4B-735-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458906
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-SA4B-735-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20932 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

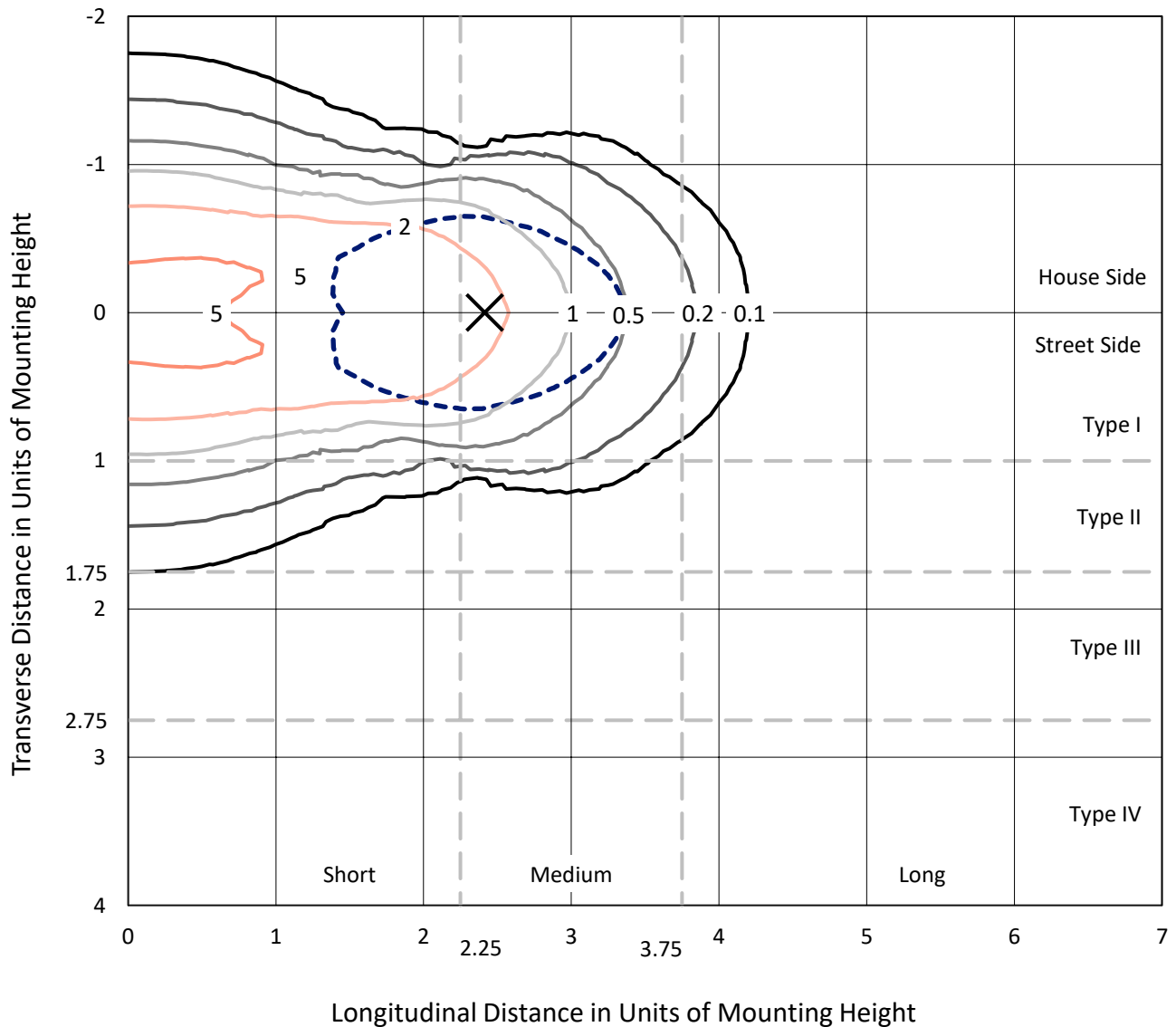
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458906
 CATALOG NUMBER: GALN-SA4B-735-U-T1

Iso-Footcandle Lines of Horizontal Illumination

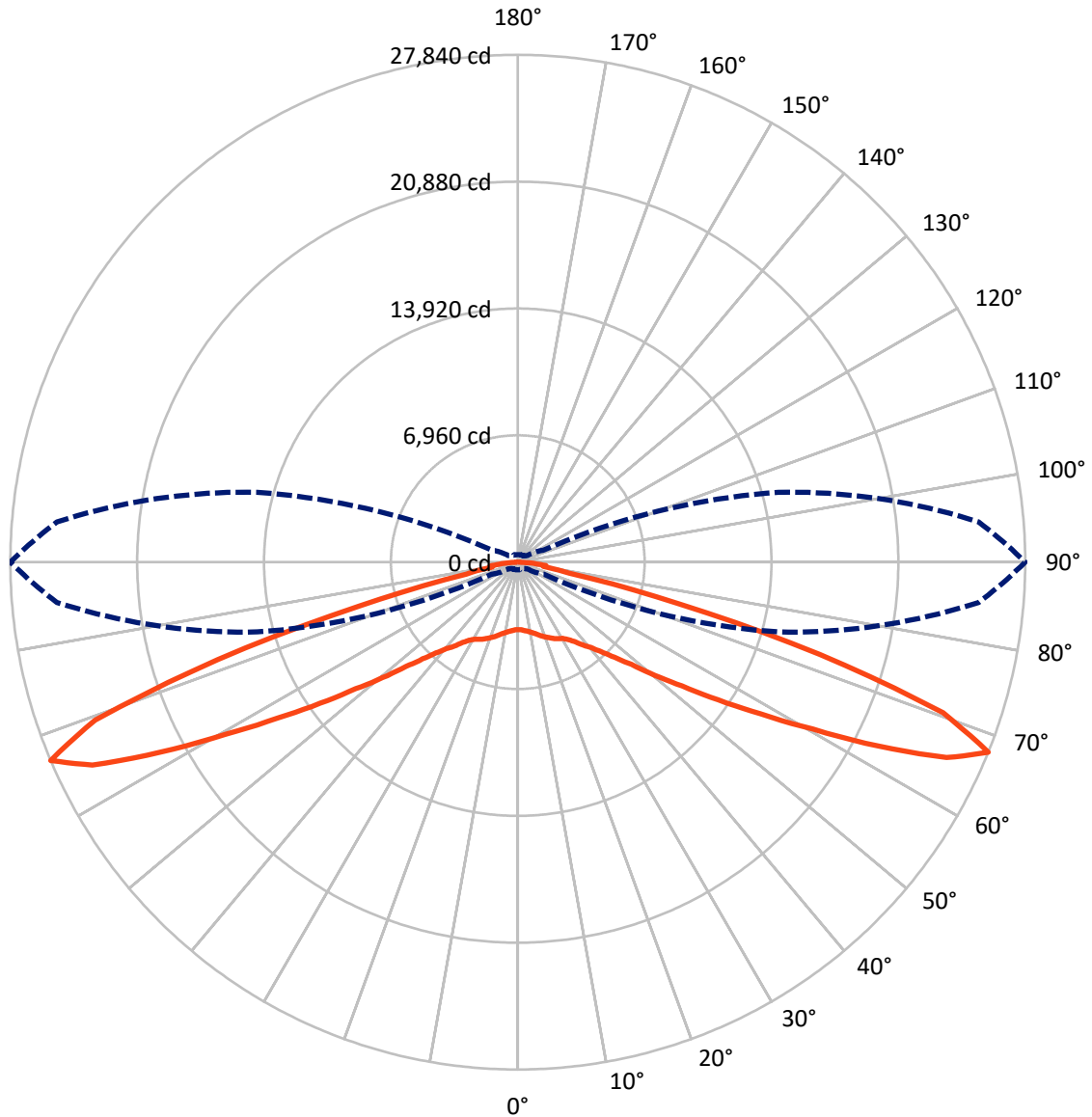
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type I - Short - N/A

REPORT NUMBER: P458906
CATALOG NUMBER: GALN-SA4B-735-U-T1

Luminous Intensity Polar Plot



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

REPORT NUMBER: P458906

CATALOG NUMBER: GALN-SA4B-735-U-T1

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10466.0	0.0	10466.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10466.0	0.0	10466.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20932.0	0.0	20932.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.5	1.8
10°-20°	1182.0	5.6
20°-30°	1978.4	9.5
30°-40°	2680.3	12.8
40°-50°	3395.0	16.2
50°-60°	4241.2	20.3
60°-70°	4985.3	23.8
70°-80°	1907.1	9.1
80°-90°	193.2	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°	20932.0	100.0
0°-180°	20932.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458906

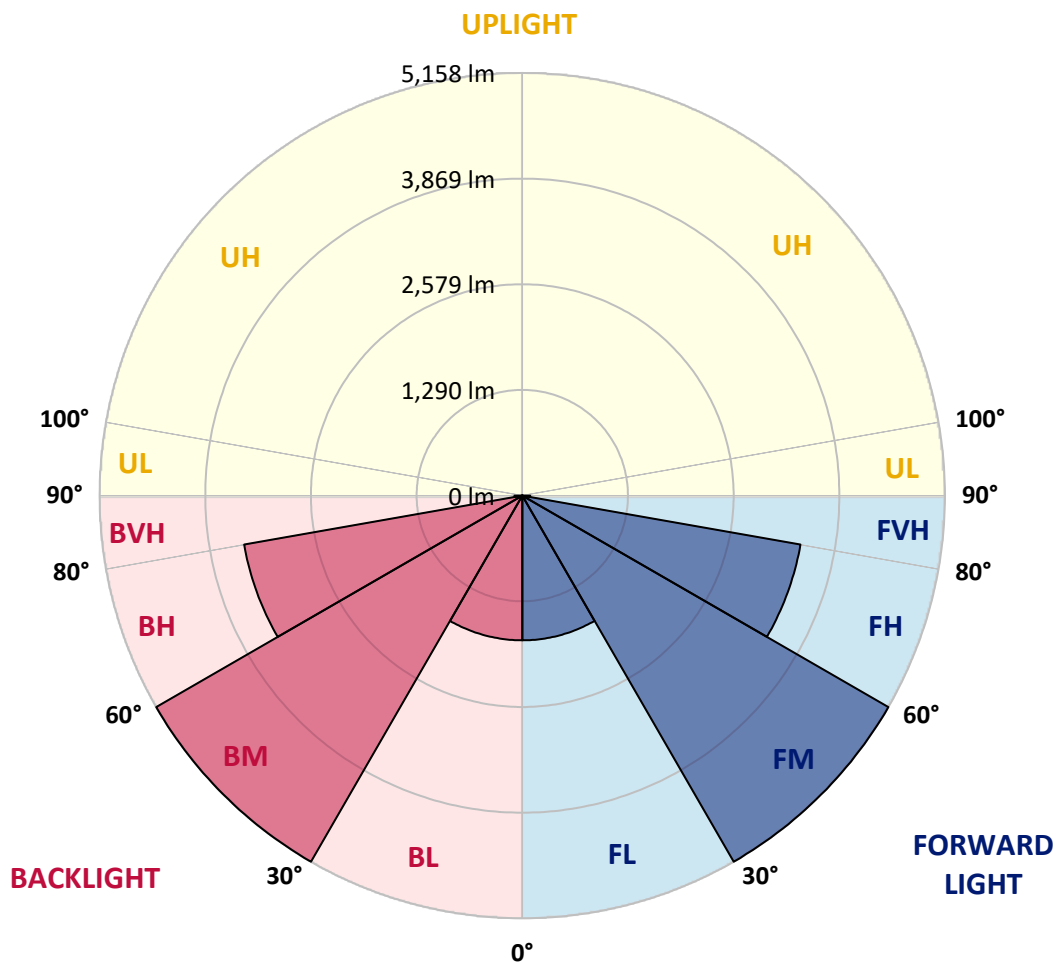
CATALOG NUMBER: GALN-SA4B-735-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1765.0	8.4			
FM (30°-60°)	5158.2	24.6			
FH (60°-80°)	3446.2	16.5			G2/5000
FVH (80°-90°)	96.6	0.5			G1/100
BL (0°-30°)	1765.0	8.4	B3/2500		
BM (30°-60°)	5158.2	24.6	B4/8500		
BH (60°-80°)	3446.2	16.5	B4/5000		G4/5000
BVH (80°-90°)	96.6	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: P458906
 CATALOG NUMBER: GALN-SA4B-735-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3705.6	3705.6	3705.6	3705.6	3705.6	3705.6	3705.6	3705.6	3705.6	3705.6	3705.6
2.5°	3753.1	3750.8	3752.0	3750.8	3754.3	3752.0	3738.1	3726.5	3717.2	3718.4	3714.9
5°	3833.1	3834.3	3835.4	3829.6	3837.8	3833.1	3811.1	3792.5	3774.0	3767.0	3764.7
7.5°	3899.2	3905.0	3908.5	3914.3	3928.2	3928.2	3916.6	3889.9	3849.3	3826.2	3825.0
10°	3965.3	3969.9	3980.3	3998.9	4022.0	4044.1	4039.4	4003.5	3951.3	3911.9	3902.7
12.5°	3988.4	3994.2	4029.0	4082.3	4134.5	4177.4	4177.4	4148.4	4081.2	4020.9	4003.5
15°	3907.3	3917.7	3980.3	4093.9	4230.7	4324.6	4345.4	4304.9	4233.0	4140.3	4119.4
17.5°	3746.2	3771.7	3863.3	4031.3	4258.5	4453.2	4513.5	4493.8	4401.1	4282.8	4258.5
20°	3573.5	3601.3	3698.7	3921.2	4235.3	4528.6	4703.6	4708.2	4593.5	4421.9	4386.0
22.5°	3383.4	3404.3	3529.4	3790.2	4165.8	4546.0	4867.0	4947.0	4791.7	4561.0	4510.0
25°	3170.1	3193.3	3324.3	3605.9	4034.8	4526.3	5016.5	5192.7	4999.2	4709.4	4644.5
27.5°	2966.1	2975.4	3115.6	3401.9	3862.1	4475.3	5126.7	5418.8	5228.7	4832.3	4750.0
30°	2770.2	2792.3	2916.3	3199.1	3663.9	4375.6	5221.7	5676.1	5475.5	4960.9	4855.4
32.5°	2562.8	2589.4	2723.9	3010.2	3465.7	4226.0	5279.7	5957.7	5819.8	5169.5	5057.1
35°	2363.4	2380.8	2516.4	2794.6	3272.1	4052.2	5290.1	6275.3	6263.7	5486.0	5336.5
37.5°	2159.4	2184.9	2321.7	2588.3	3067.0	3867.9	5237.9	6612.6	6799.2	5925.3	5764.2
40°	1963.5	1985.5	2120.0	2388.9	2834.0	3643.0	5113.9	6920.9	7424.0	6377.3	6149.0
42.5°	1750.2	1756.0	1903.2	2176.8	2605.6	3382.2	4935.4	7195.6	8120.6	6983.5	6699.5
45°	1508.0	1523.0	1659.8	1928.7	2343.7	3090.1	4693.2	7422.8	9003.8	7823.9	7436.7
47.5°	1265.7	1278.5	1403.7	1669.1	2057.4	2755.2	4319.9	7622.2	9910.2	8891.4	8383.7
50°	1029.3	1036.2	1138.2	1373.5	1735.2	2402.8	3857.5	7685.9	10934.9	10402.8	9754.9
52.5°	813.7	824.1	901.8	1086.1	1390.9	1986.7	3357.9	7528.3	12131.1	12194.8	11281.4
55°	659.5	663.0	721.0	856.6	1087.2	1550.9	2755.2	7089.0	13417.6	14491.0	13326.1
57.5°	568.0	570.3	602.7	678.1	836.9	1169.5	2137.4	6257.9	14573.3	17181.2	15683.7
60°	515.8	517.0	535.5	579.5	663.0	897.1	1531.2	5084.9	15713.8	20175.1	18613.9
62.5°	483.3	483.3	496.1	520.4	561.0	688.5	1109.3	3668.5	16495.0	23213.1	22225.6
65°	452.0	452.0	461.3	478.7	500.7	563.3	819.5	2392.4	16475.3	25425.8	25858.2
67.5°	416.1	416.1	423.1	440.5	453.2	484.5	632.9	1567.1	14799.3	25377.2	27840.2
70°	373.2	373.2	382.5	397.6	408.0	427.7	499.6	1072.2	10872.3	21668.1	24759.4
72.5°	330.3	331.5	337.3	352.4	360.5	372.1	415.0	751.1	6669.4	14754.1	17312.2
75°	282.8	285.1	290.9	306.0	313.0	317.6	350.0	535.5	3374.1	7954.8	9057.1
77.5°	228.3	233.0	236.5	252.7	257.3	264.3	288.6	387.1	1481.3	2858.3	2883.8
80°	166.9	172.7	183.1	198.2	201.7	206.3	220.2	274.7	671.1	1305.1	1417.6
82.5°	122.9	131.0	118.2	137.9	137.9	132.1	155.3	184.3	308.3	1292.4	1546.2
85°	67.2	68.4	61.4	70.7	75.3	74.2	82.3	90.4	149.5	862.4	889.0
87.5°	16.2	17.4	18.5	22.0	26.7	26.7	29.0	25.5	48.7	279.3	160.0
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)