

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: P942460

Luminaire Tested: **GALN-SB6C-727-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942460
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6C-727-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42608 lumens
Efficiency: N/A
Efficacy: 141.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 300.9
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

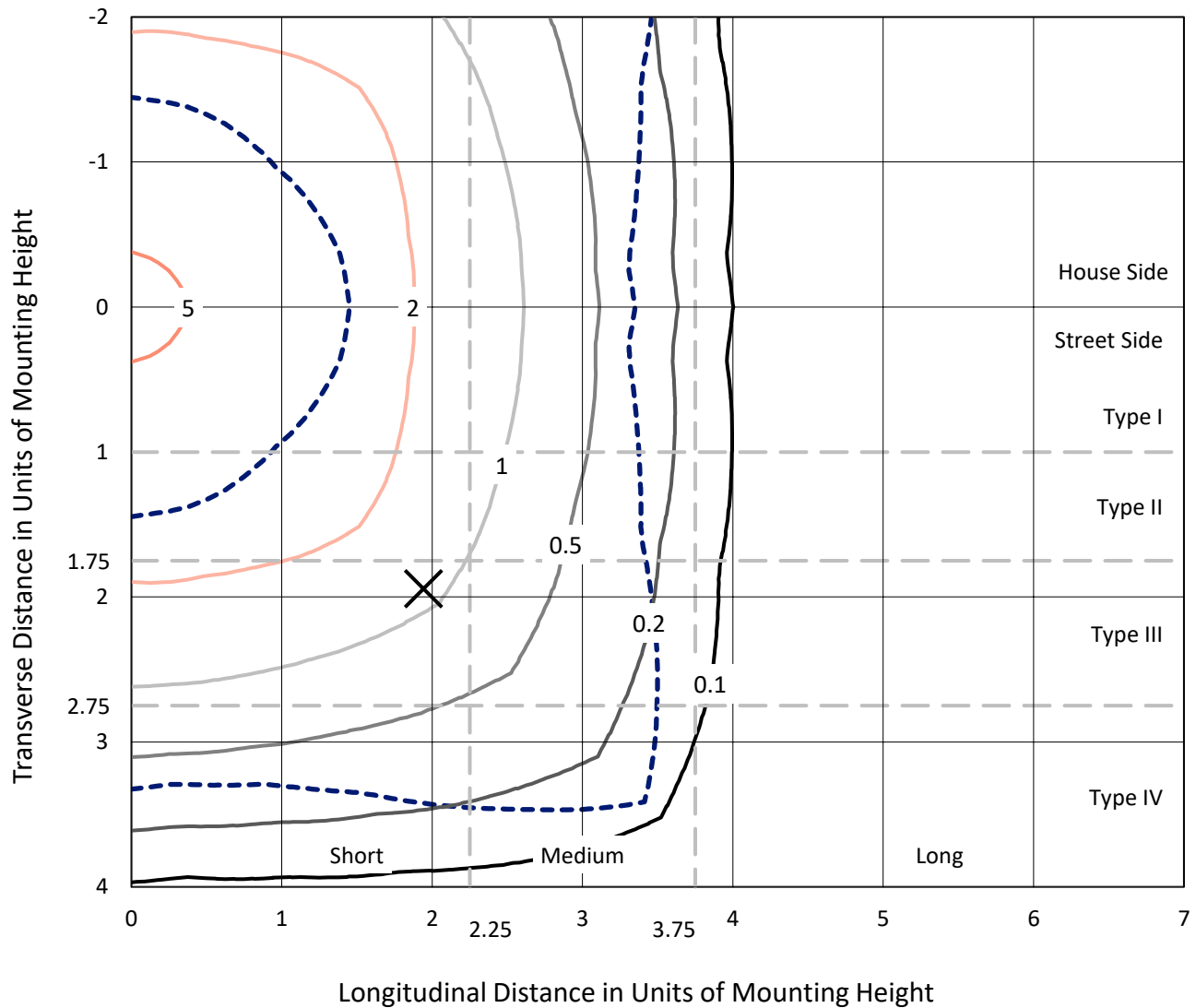


REPORT NUMBER: P942460

CATALOG NUMBER: GALN-SB6C-727-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

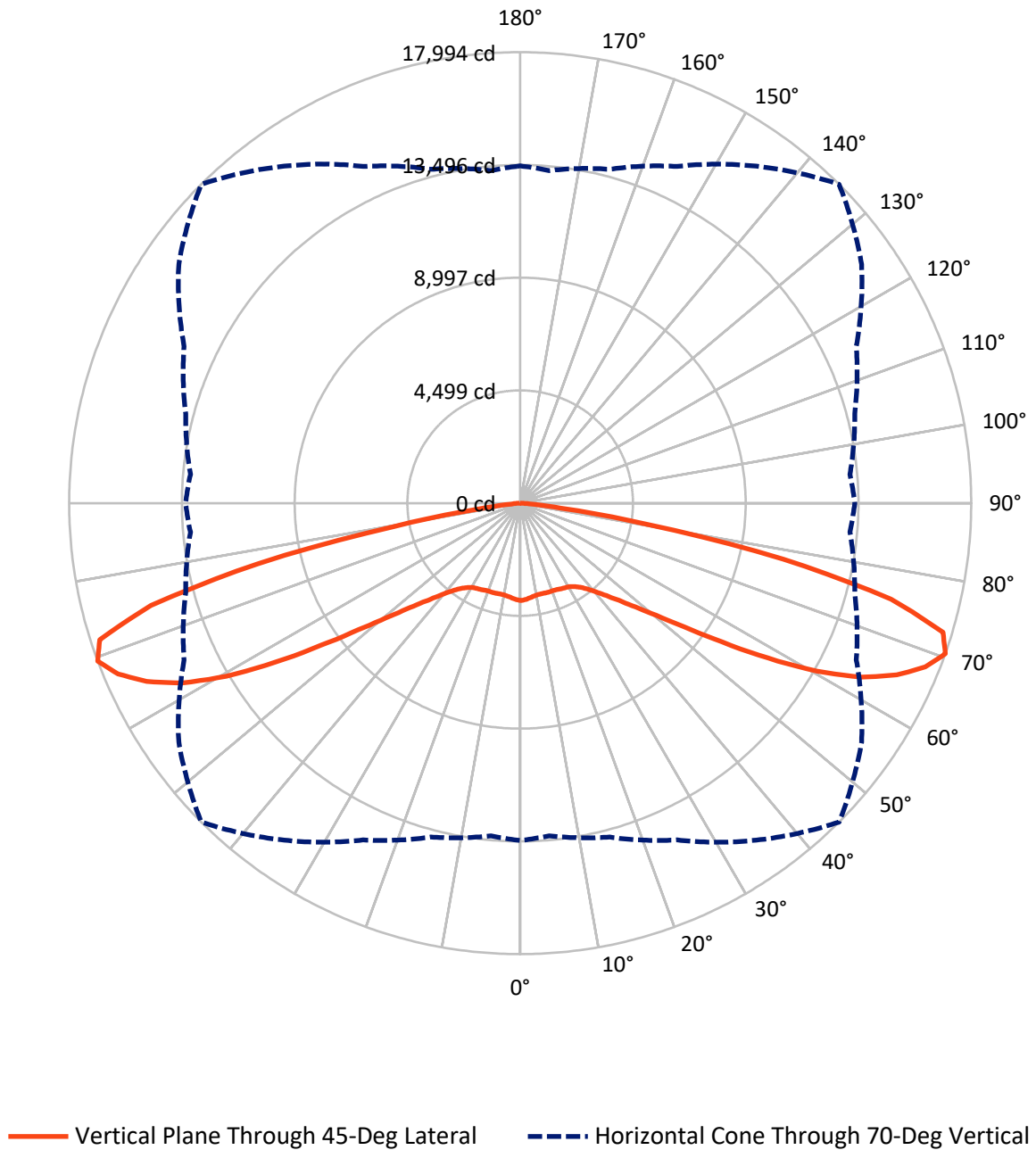


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
Type V - Short - N/A

REPORT NUMBER: P942460

CATALOG NUMBER: GALN-SB6C-727-U-5WQ

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21304.0	0.0	21304.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21304.0	0.0	21304.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	42608.0	0.0	42608.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.6	0.8
10°-20°	1061.6	2.5
20°-30°	1766.7	4.1
30°-40°	2671.8	6.3
40°-50°	4439.8	10.4
50°-60°	8377.8	19.7
60°-70°	14146.2	33.2
70°-80°	9295.5	21.8
80°-90°	487.0	1.1
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°	42608.0	100.0
0°-180°	42608.0	100.0

Coefficient of Utilization



REPORT NUMBER: P942460

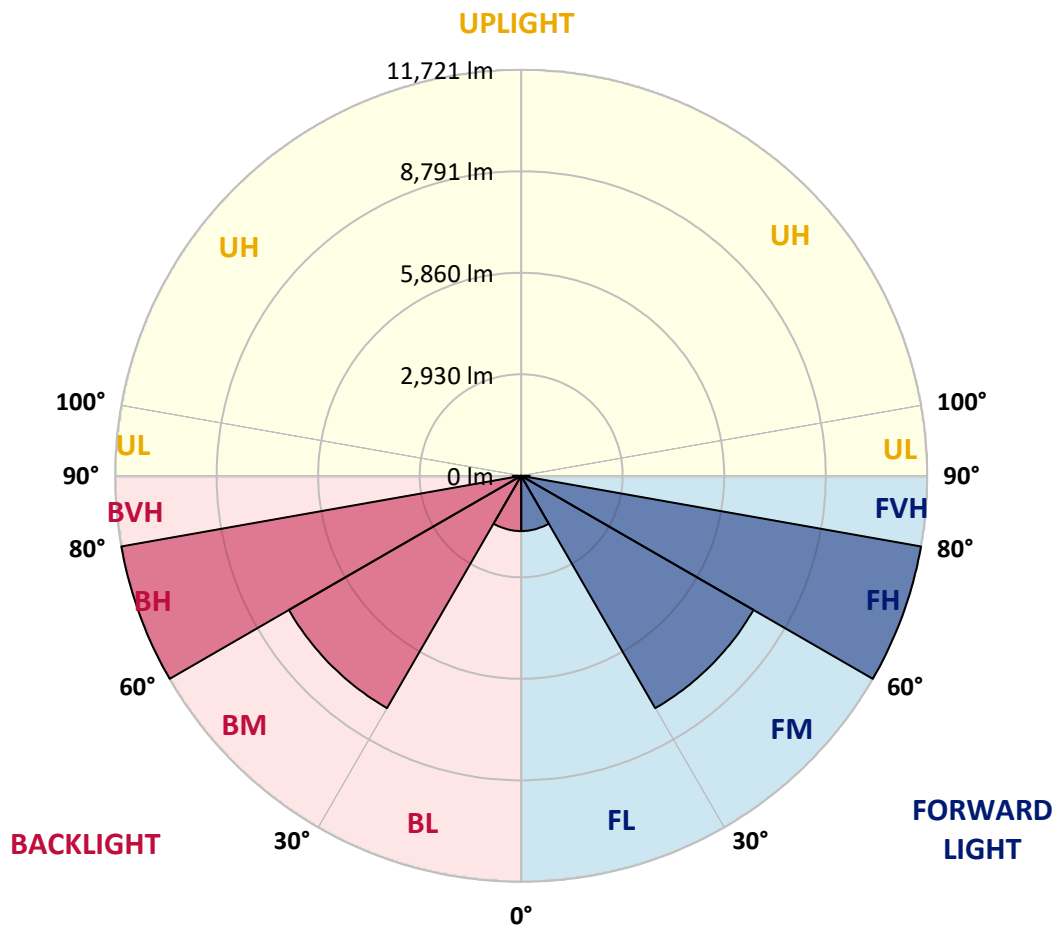
CATALOG NUMBER: GALN-SB6C-727-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1594.9	3.7			
FM	(30°-60°)	7744.7	18.2			
FH	(60°-80°)	11720.9	27.5			G4/12000
FVH	(80°-90°)	243.5	0.6			G3/500
BL	(0°-30°)	1594.9	3.7	B3/2500		
BM	(30°-60°)	7744.7	18.2	B4/8500		
BH	(60°-80°)	11720.9	27.5	B5		G4/12000
BVH	(80°-90°)	243.5	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



REPORT NUMBER: P942460

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3886.7	3886.7	3886.7	3886.7	3886.7	3886.7	3886.7	3886.7	3886.7	3886.7	3886.7
2.5°	3862.3	3873.4	3869.0	3860.1	3860.1	3853.5	3860.1	3864.6	3871.2	3875.6	3873.4
5°	3811.4	3820.3	3818.1	3811.4	3813.6	3807.0	3811.4	3818.1	3822.5	3824.7	3824.7
7.5°	3767.1	3776.0	3771.5	3760.5	3760.5	3753.8	3756.0	3762.7	3769.3	3771.5	3771.5
10°	3756.0	3764.9	3751.6	3733.9	3727.3	3718.4	3720.6	3727.3	3740.5	3747.2	3747.2
12.5°	3760.5	3767.1	3753.8	3727.3	3720.6	3711.8	3711.8	3718.4	3736.1	3745.0	3747.2
15°	3773.8	3780.4	3760.5	3731.7	3725.0	3718.4	3716.2	3725.0	3745.0	3760.5	3762.7
17.5°	3798.1	3804.8	3773.8	3733.9	3725.0	3727.3	3725.0	3731.7	3762.7	3791.5	3791.5
20°	3820.3	3824.7	3782.6	3733.9	3725.0	3727.3	3725.0	3738.3	3778.2	3818.1	3820.3
22.5°	3826.9	3831.3	3791.5	3749.4	3742.8	3745.0	3742.8	3756.0	3793.7	3833.6	3833.6
25°	3829.1	3835.8	3804.8	3771.5	3782.6	3787.0	3782.6	3784.8	3813.6	3849.1	3846.8
27.5°	3862.3	3871.2	3842.4	3813.6	3820.3	3818.1	3824.7	3831.3	3853.5	3888.9	3880.1
30°	3931.0	3937.6	3913.3	3884.5	3880.1	3864.6	3884.5	3906.6	3931.0	3962.0	3955.4
32.5°	4043.9	4057.2	4026.2	3995.2	3975.3	3966.4	3981.9	4019.6	4052.8	4086.0	4072.7
35°	4232.2	4241.1	4212.3	4154.7	4119.2	4119.2	4132.5	4181.3	4234.4	4276.5	4261.0
37.5°	4498.0	4509.0	4458.1	4389.4	4336.3	4336.3	4354.0	4404.9	4484.7	4544.5	4522.3
40°	4821.3	4836.8	4772.6	4701.7	4650.8	4641.9	4664.0	4721.6	4796.9	4872.2	4847.9
42.5°	5211.1	5228.8	5144.6	5082.6	5042.8	5042.8	5053.8	5107.0	5175.6	5268.6	5262.0
45°	5709.4	5740.4	5625.2	5563.2	5525.5	5534.4	5541.0	5587.6	5649.6	5755.9	5751.4
47.5°	6302.9	6333.9	6212.1	6147.9	6141.2	6183.3	6156.7	6189.9	6223.2	6345.0	6309.5
50°	6976.1	7029.3	6945.1	6940.7	6954.0	7031.5	6969.5	6987.2	6949.6	7027.1	6980.6
52.5°	7800.0	7877.5	7862.0	7888.6	8037.0	8196.4	8054.7	7992.7	7850.9	7875.3	7793.3
55°	8798.8	8916.2	8938.3	9097.8	9434.4	9760.0	9458.8	9208.5	8907.3	8851.9	8765.6
57.5°	9934.9	10027.9	10134.2	10459.8	11088.7	11666.8	11088.7	10535.1	10061.1	9948.2	9868.5
60°	11157.4	11272.6	11374.4	11855.0	12789.6	13602.4	12771.9	11892.7	11265.9	11113.1	10980.2
62.5°	12470.7	12619.1	12689.9	13223.7	14313.3	15283.3	14328.8	13263.5	12568.1	12404.2	12271.4
65°	13730.8	13852.6	13932.4	14501.5	15542.4	16514.6	15613.3	14563.5	13848.2	13633.4	13527.1
67.5°	14317.7	14384.1	14579.0	15223.5	16322.0	17431.5	16508.0	15292.1	14492.7	14116.2	14120.6
70°	13458.4	13323.3	13792.8	14824.9	16415.0	17994.0	16627.6	14793.8	13815.0	13203.7	13349.9
72.5°	10400.0	10167.4	10982.4	12747.5	15351.9	17635.2	15458.2	12847.2	11489.6	10249.4	10557.2
75°	5658.4	5394.9	6519.9	8752.3	12242.6	15285.5	12523.8	9002.5	7259.6	5616.3	5981.8
77.5°	1596.8	1497.1	2405.1	4234.4	7363.7	10732.2	7647.2	4327.4	2852.5	1692.0	1880.2
80°	489.4	473.9	642.2	1275.6	3127.1	5140.2	3005.3	1291.1	817.2	516.0	544.8
82.5°	290.1	265.8	318.9	465.1	797.3	1614.5	775.1	485.0	389.8	261.3	283.5
85°	166.1	155.0	188.2	225.9	268.0	343.3	223.7	230.3	208.2	139.5	146.2
87.5°	68.7	62.0	73.1	70.9	62.0	79.7	59.8	70.9	84.2	55.4	50.9
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)