

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: P944160

Luminaire Tested: **GALN-SB9A-727-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944160
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-SB9A-727-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38333 lumens
Efficiency: N/A
Efficacy: 150.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 255.5
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

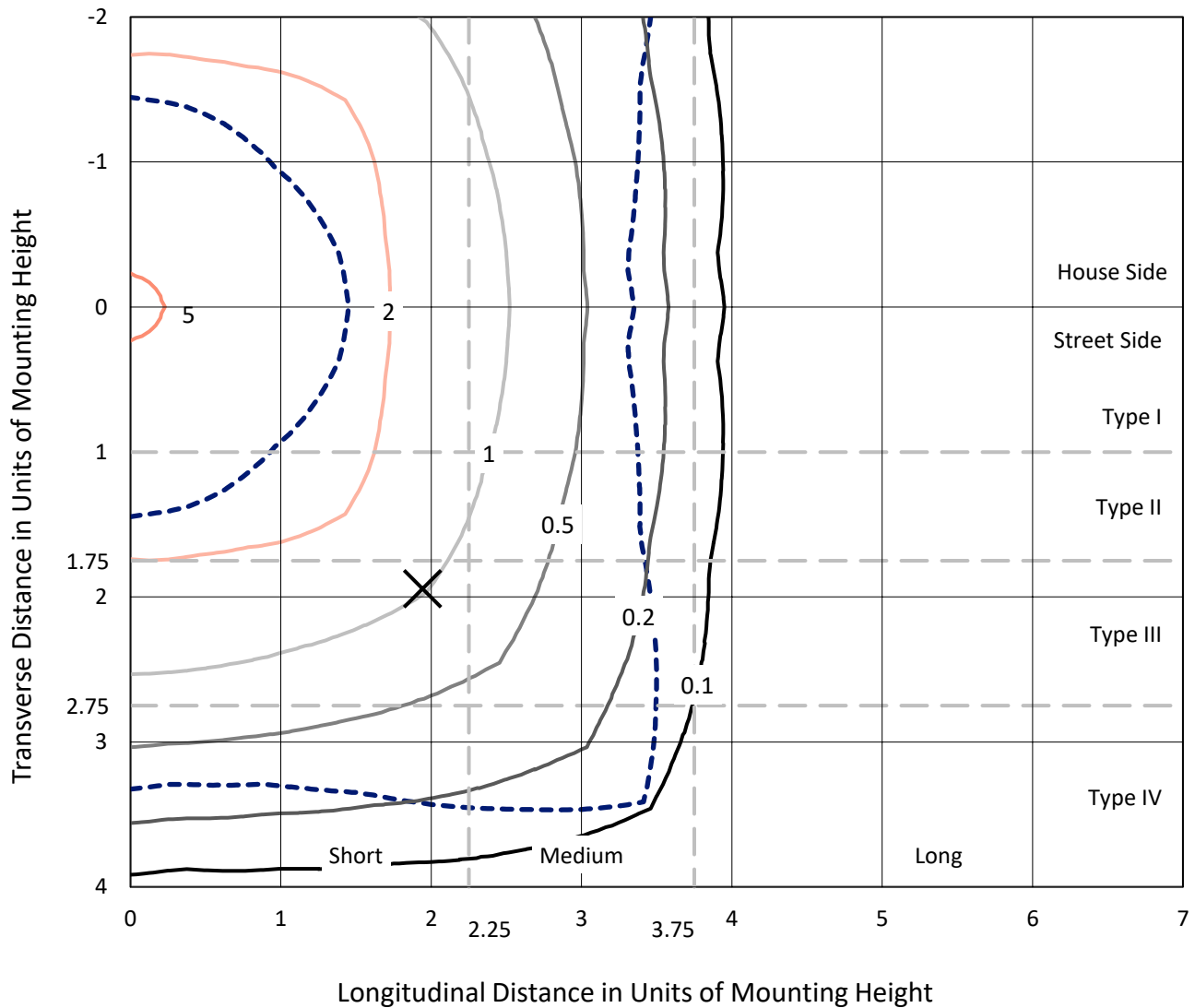


REPORT NUMBER: P944160

CATALOG NUMBER: GALN-SB9A-727-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

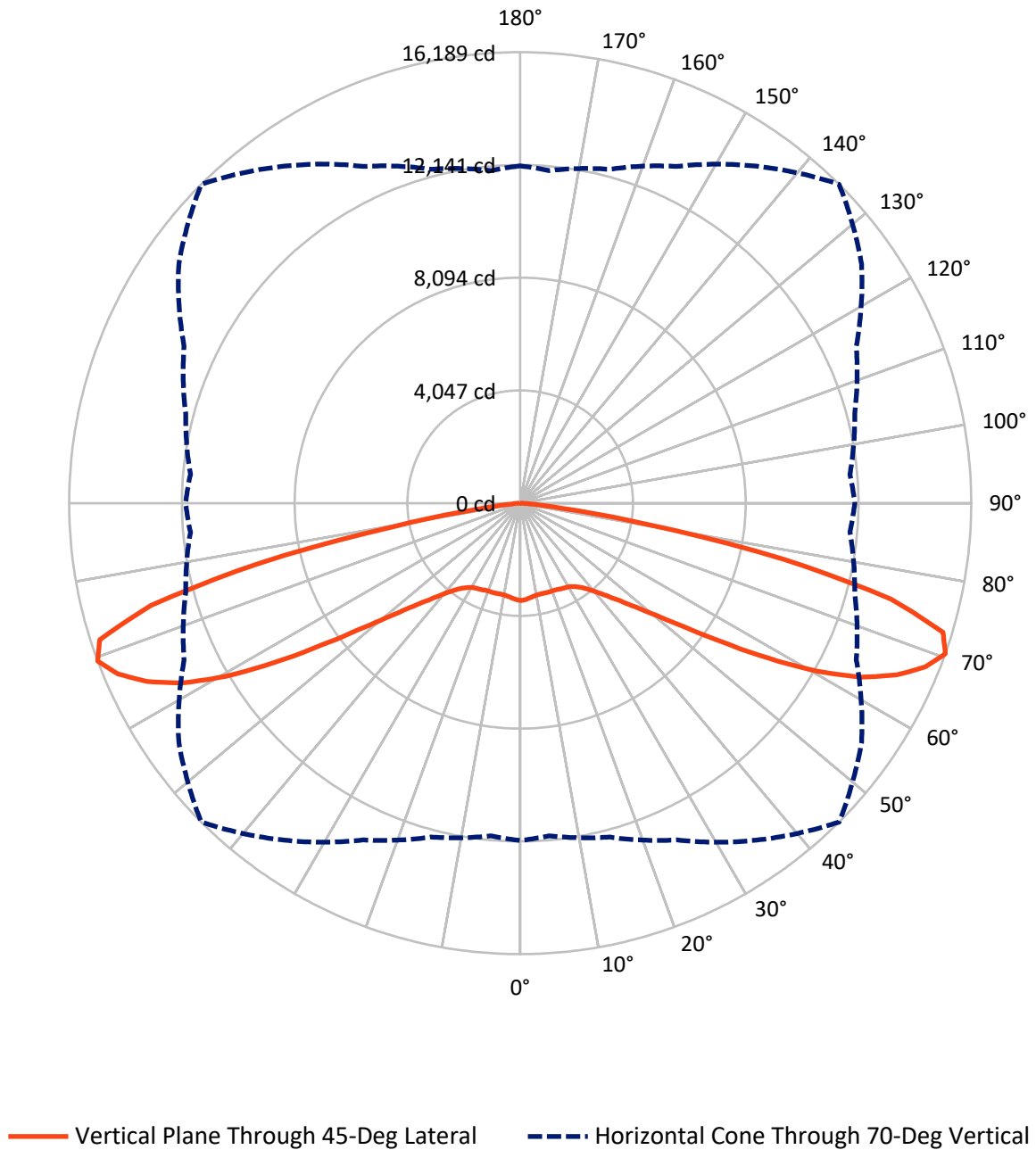


Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
Type V - Short - N/A

REPORT NUMBER: P944160

CATALOG NUMBER: GALN-SB9A-727-U-5WQ

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19166.5	0.0	19166.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19166.5	0.0	19166.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	38333.0	0.0	38333.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.3	0.8
10°-20°	955.1	2.5
20°-30°	1589.4	4.1
30°-40°	2403.7	6.3
40°-50°	3994.4	10.4
50°-60°	7537.2	19.7
60°-70°	12726.9	33.2
70°-80°	8362.9	21.8
80°-90°	438.1	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°	38333.0	100.0
0°-180°	38333.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944160

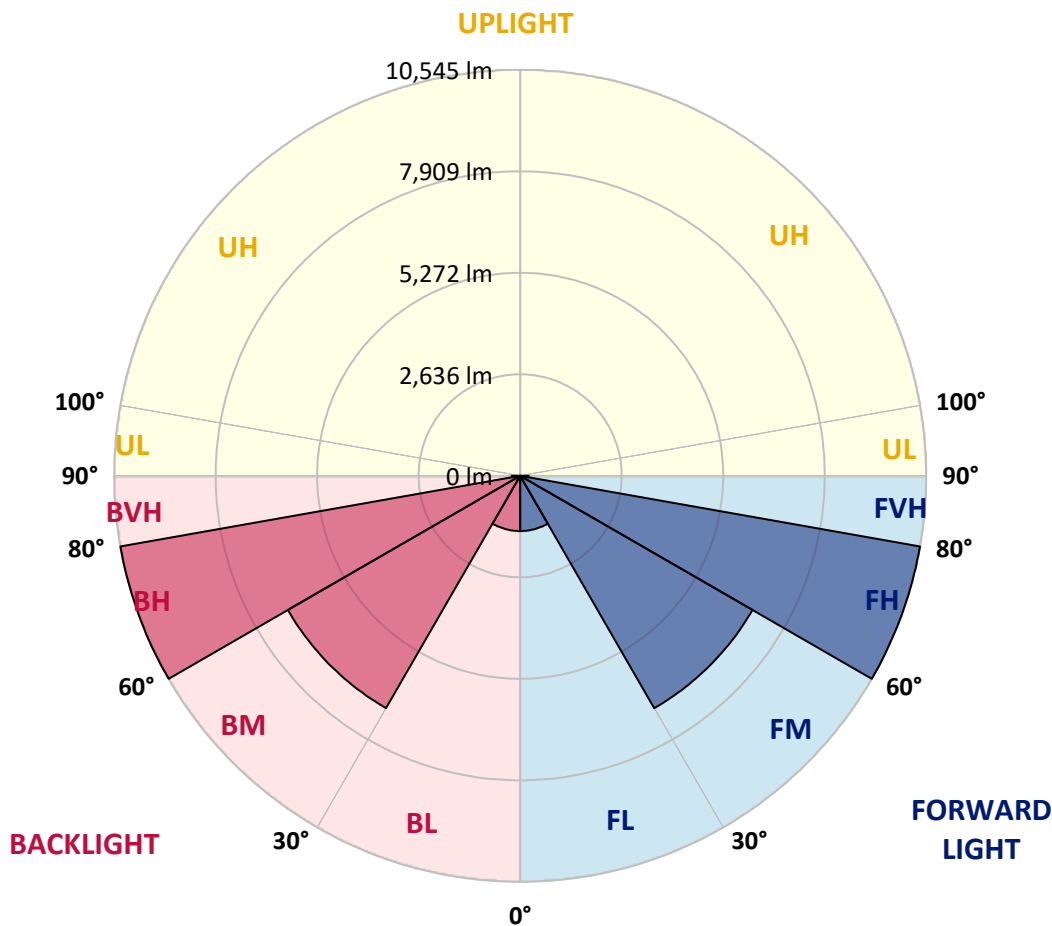
CATALOG NUMBER: GALN-SB9A-727-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1434.9	3.7			
FM	(30°-60°)	6967.6	18.2			
FH	(60°-80°)	10544.9	27.5			G4/12000
FVH	(80°-90°)	219.1	0.6			G2/225
BL	(0°-30°)	1434.9	3.7	B3/2500		
BM	(30°-60°)	6967.6	18.2	B4/8500		
BH	(60°-80°)	10544.9	27.5	B5		G4/12000
BVH	(80°-90°)	219.1	0.6			G2/225
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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3496.7	3496.7	3496.7	3496.7	3496.7	3496.7	3496.7	3496.7	3496.7	3496.7	3496.7
2.5°	3474.8	3484.8	3480.8	3472.8	3472.8	3466.9	3472.8	3476.8	3482.8	3486.8	3484.8
5°	3429.0	3437.0	3435.0	3429.0	3431.0	3425.0	3429.0	3435.0	3439.0	3441.0	3441.0
7.5°	3389.1	3397.1	3393.1	3383.2	3383.2	3377.2	3379.2	3385.2	3391.1	3393.1	3393.1
10°	3379.2	3387.2	3375.2	3359.3	3353.3	3345.3	3347.3	3353.3	3365.2	3371.2	3371.2
12.5°	3383.2	3389.1	3377.2	3353.3	3347.3	3339.3	3339.3	3345.3	3361.3	3369.2	3371.2
15°	3395.1	3401.1	3383.2	3357.3	3351.3	3345.3	3343.3	3351.3	3369.2	3383.2	3385.2
17.5°	3417.0	3423.0	3395.1	3359.3	3351.3	3353.3	3351.3	3357.3	3385.2	3411.1	3411.1
20°	3437.0	3441.0	3403.1	3359.3	3351.3	3353.3	3351.3	3363.2	3399.1	3435.0	3437.0
22.5°	3442.9	3446.9	3411.1	3373.2	3367.2	3369.2	3367.2	3379.2	3413.1	3448.9	3448.9
25°	3444.9	3450.9	3423.0	3393.1	3403.1	3407.1	3403.1	3405.1	3431.0	3462.9	3460.9
27.5°	3474.8	3482.8	3456.9	3431.0	3437.0	3435.0	3441.0	3446.9	3466.9	3498.7	3490.8
30°	3536.6	3542.6	3520.7	3494.7	3490.8	3476.8	3494.7	3514.7	3536.6	3564.5	3558.5
32.5°	3638.2	3650.2	3622.3	3594.4	3576.4	3568.5	3582.4	3616.3	3646.2	3676.1	3664.1
35°	3807.6	3815.5	3789.6	3737.8	3705.9	3705.9	3717.9	3761.7	3809.6	3847.4	3833.5
37.5°	4046.7	4056.6	4010.8	3949.0	3901.2	3901.2	3917.1	3963.0	4034.7	4088.5	4068.6
40°	4337.6	4351.5	4293.7	4230.0	4184.1	4176.2	4196.1	4247.9	4315.6	4383.4	4361.5
42.5°	4688.2	4704.2	4628.5	4572.7	4536.8	4536.8	4546.8	4594.6	4656.3	4740.0	4734.0
45°	5136.5	5164.4	5060.8	5005.0	4971.2	4979.1	4985.1	5026.9	5082.7	5178.4	5174.4
47.5°	5670.5	5698.4	5588.8	5531.0	5525.1	5562.9	5539.0	5568.9	5598.8	5708.4	5676.5
50°	6276.2	6324.0	6248.3	6244.3	6256.3	6326.0	6270.2	6286.2	6252.3	6322.0	6280.2
52.5°	7017.4	7087.1	7073.2	7097.1	7230.6	7374.0	7246.5	7190.7	7063.2	7085.1	7011.4
55°	7916.0	8021.6	8041.5	8185.0	8487.8	8780.7	8509.7	8284.6	8013.6	7963.8	7886.1
57.5°	8938.1	9021.8	9117.4	9410.3	9976.2	10496.2	9976.2	9478.1	9051.7	8950.1	8878.3
60°	10037.9	10141.5	10233.2	10665.6	11506.4	12237.6	11490.4	10699.4	10135.6	9998.1	9878.5
62.5°	11219.5	11353.0	11416.7	11896.9	12877.2	13749.9	12891.1	11932.8	11307.1	11159.7	11040.1
65°	12353.2	12462.7	12534.5	13046.5	13983.0	14857.7	14046.7	13102.3	12458.8	12265.5	12169.9
67.5°	12881.2	12940.9	13116.3	13696.1	14684.3	15682.5	14851.7	13757.8	13038.6	12699.8	12703.8
70°	12108.1	11986.6	12408.9	13337.4	14768.0	16188.6	14959.3	13309.5	12428.9	11879.0	12010.5
72.5°	9356.5	9147.3	9880.5	11468.5	13811.6	15865.8	13907.3	11558.2	10336.8	9221.0	9498.0
75°	5090.7	4853.6	5865.8	7874.1	11014.2	13751.9	11267.3	8099.3	6531.2	5052.8	5381.6
77.5°	1436.6	1346.9	2163.8	3809.6	6624.9	9655.4	6879.9	3893.2	2566.3	1522.2	1691.6
80°	440.3	426.4	577.8	1147.6	2813.3	4624.5	2703.7	1161.6	735.2	464.2	490.1
82.5°	261.0	239.1	286.9	418.4	717.3	1452.5	697.4	436.3	350.7	235.1	255.0
85°	149.4	139.5	169.4	203.2	241.1	308.8	201.2	207.2	187.3	125.5	131.5
87.5°	61.8	55.8	65.8	63.8	55.8	71.7	53.8	63.8	75.7	49.8	45.8
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)