

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: P956654

Luminaire Tested: **GALN-SB9B-730-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956654
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-730-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53746 lumens
Efficiency: N/A
Efficacy: 163.1 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): 329.5
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

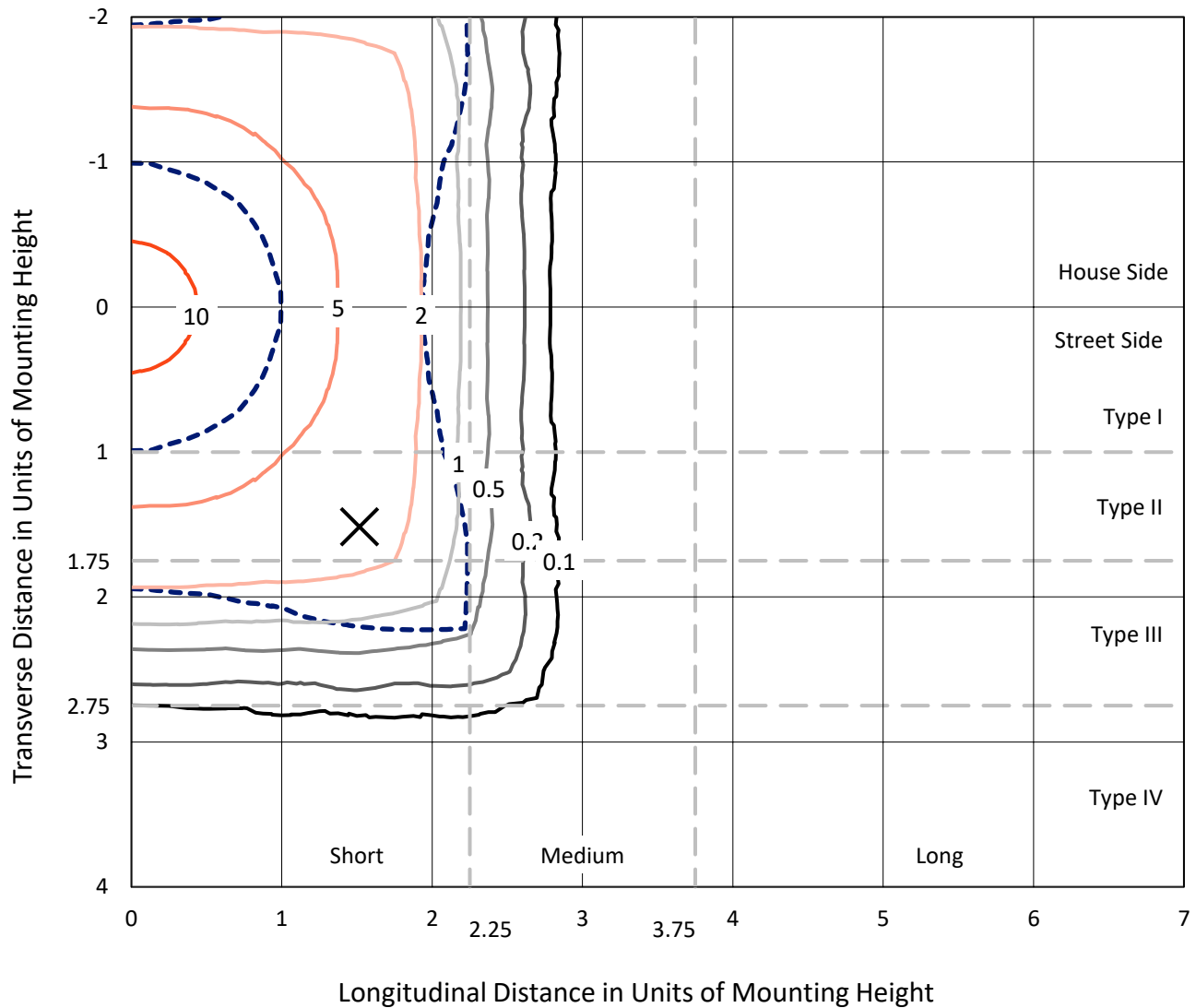


REPORT NUMBER: P956654

CATALOG NUMBER: GALN-SB9B-730-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

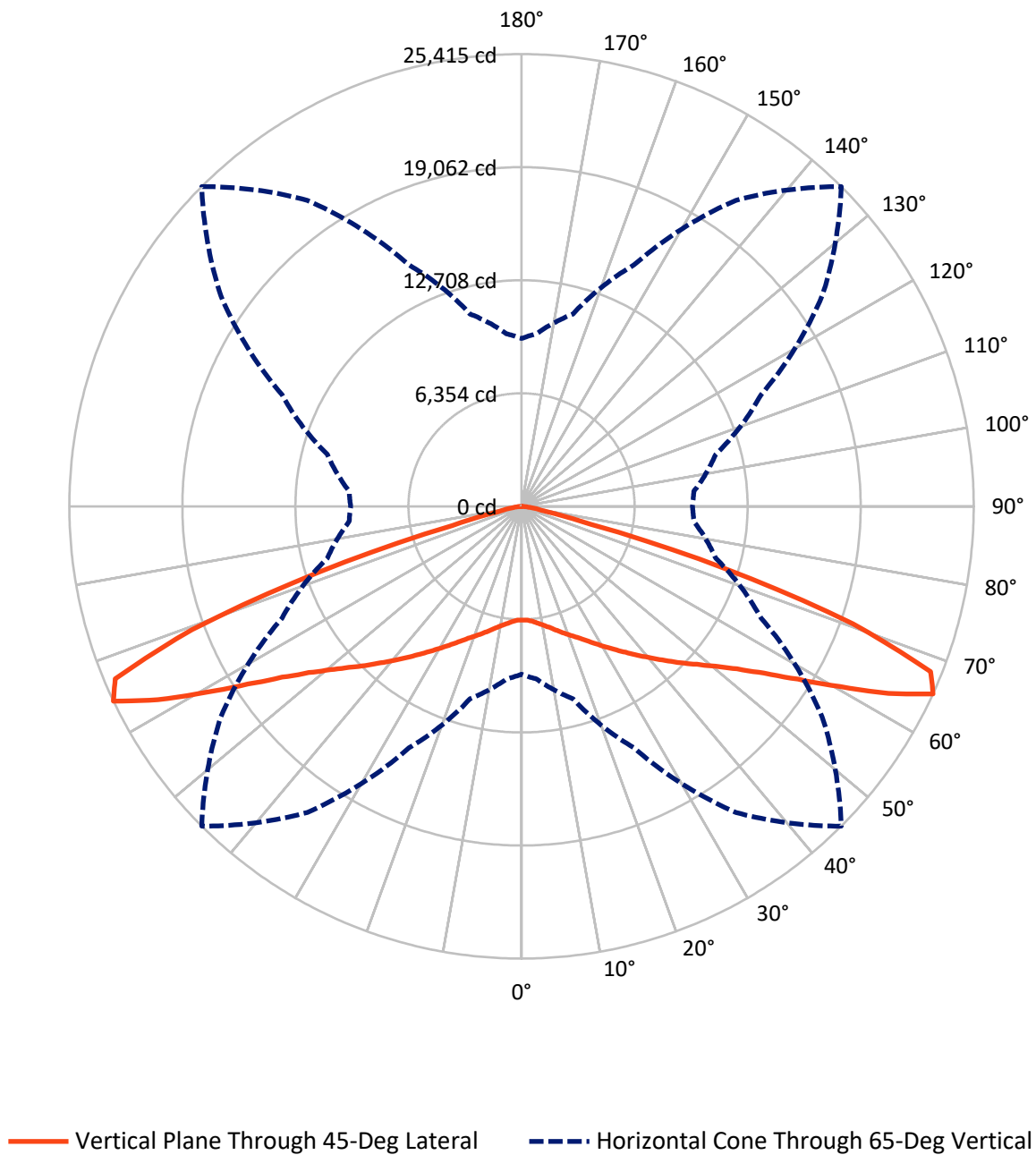


Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
Type V - Short - N/A

REPORT NUMBER: P956654

CATALOG NUMBER: GALN-SB9B-730-U-5NQ

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26873.0	0.0	26873.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26873.0	0.0	26873.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	53746.0	0.0	53746.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	631.3	1.2
10°-20°	2059.8	3.8
20°-30°	3889.2	7.2
30°-40°	6368.4	11.8
40°-50°	9874.3	18.4
50°-60°	14586.4	27.1
60°-70°	13884.9	25.8
70°-80°	2240.5	4.2
80°-90°	211.2	0.4
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°	53746.0	100.0
0°-180°	53746.0	100.0

Coefficient of Utilization



REPORT NUMBER: P956654

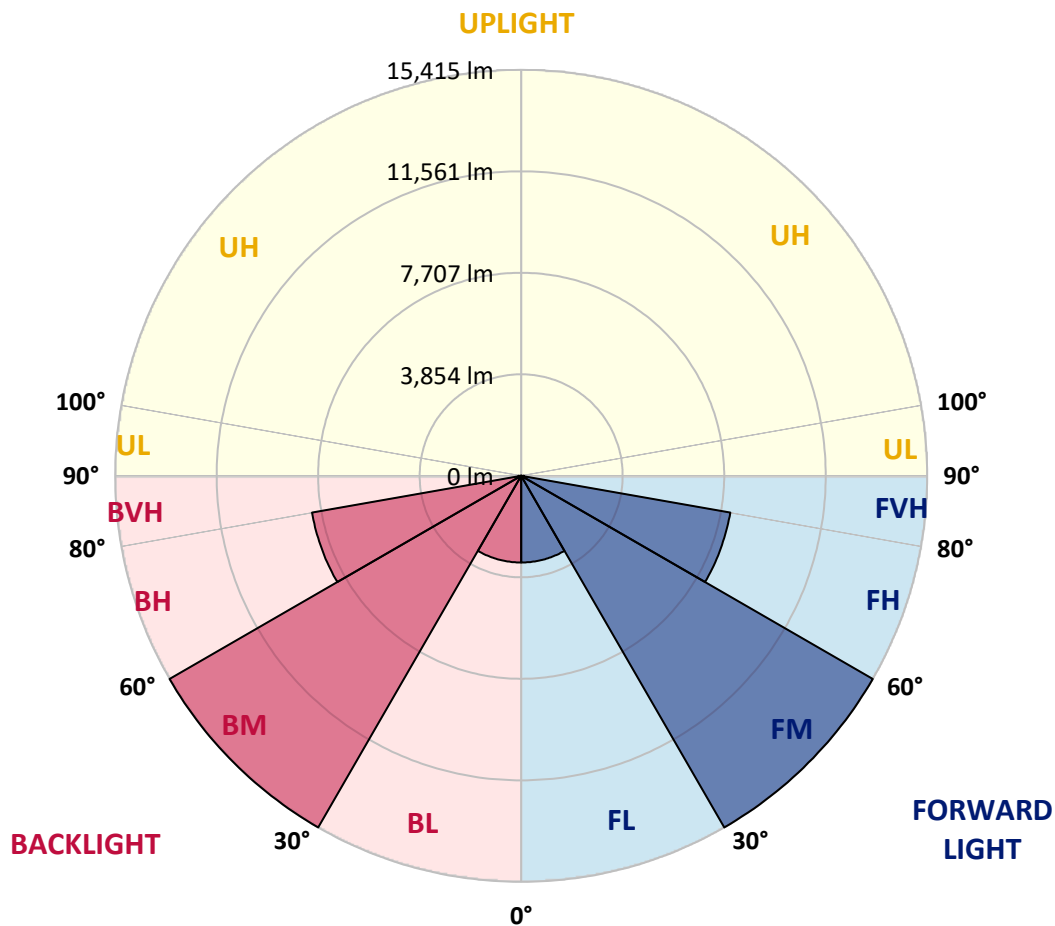
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3290.1	6.1			
FM	(30°-60°)	15414.6	28.7			
FH	(60°-80°)	8062.7	15.0			G4/12000
FVH	(80°-90°)	105.6	0.2			G2/225
BL	(0°-30°)	3290.1	6.1	B4/5000		
BM	(30°-60°)	15414.6	28.7	B5		
BH	(60°-80°)	8062.7	15.0	B5		G4/12000
BVH	(80°-90°)	105.6	0.2			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°	6396.3	6396.3	6396.3	6396.3	6396.3	6396.3	6396.3	6396.3	6396.3	6396.3	6396.3
2.5°	6439.5	6417.9	6434.1	6420.6	6409.8	6399.0	6404.4	6423.3	6431.4	6434.1	6434.1
5°	6525.7	6506.9	6515.0	6515.0	6496.1	6490.7	6493.4	6506.9	6523.1	6523.1	6523.1
7.5°	6666.0	6647.1	6666.0	6655.2	6639.0	6633.6	6630.9	6641.7	6666.0	6666.0	6657.9
10°	6835.9	6814.3	6825.1	6819.7	6800.8	6792.7	6790.0	6806.2	6827.8	6825.1	6819.7
12.5°	7021.9	6997.7	7011.1	6995.0	6989.6	6981.5	6981.5	6978.8	6992.3	6981.5	6986.9
15°	7229.6	7213.4	7218.8	7208.0	7216.1	7210.7	7189.1	7178.3	7183.7	7167.5	7170.2
17.5°	7474.9	7437.2	7456.1	7450.7	7450.7	7461.5	7426.4	7412.9	7423.7	7407.5	7421.0
20°	7758.1	7720.3	7728.4	7717.6	7704.2	7714.9	7671.8	7682.6	7690.7	7679.9	7704.2
22.5°	8068.2	8019.7	8017.0	8022.4	7992.7	7995.4	7965.7	7992.7	8008.9	7979.2	8008.9
25°	8386.4	8335.2	8370.2	8356.7	8319.0	8327.1	8305.5	8332.5	8345.9	8308.2	8351.3
27.5°	8723.5	8688.4	8720.8	8728.9	8683.0	8715.4	8683.0	8707.3	8720.8	8664.1	8707.3
30°	9117.2	9082.1	9111.8	9133.4	9079.4	9130.7	9103.7	9119.9	9122.6	9055.1	9095.6
32.5°	9545.9	9492.0	9567.5	9578.3	9519.0	9581.0	9545.9	9567.5	9581.0	9489.3	9551.3
35°	10069.1	10001.7	10087.9	10074.5	10023.2	10074.5	10042.1	10074.5	10106.8	9996.3	10063.7
37.5°	10632.7	10562.5	10654.2	10630.0	10581.4	10616.5	10597.6	10619.2	10670.4	10551.8	10624.6
40°	11252.9	11166.6	11290.6	11247.5	11201.6	11196.2	11207.0	11220.5	11287.9	11155.8	11198.9
42.5°	11916.2	11824.5	12010.6	11943.2	11878.5	11835.3	11870.4	11897.4	11962.1	11813.8	11892.0
45°	12674.0	12568.8	12811.5	12730.6	12628.1	12539.1	12595.8	12636.2	12730.6	12552.6	12644.3
47.5°	13509.9	13391.3	13650.1	13625.9	13458.7	13264.5	13394.0	13509.9	13580.0	13364.3	13437.1
50°	14327.0	14235.3	14575.1	14604.7	14399.8	14127.4	14308.1	14483.4	14502.3	14219.1	14254.2
52.5°	15092.8	15001.1	15494.6	15680.7	15497.3	15173.7	15365.2	15543.1	15400.2	15033.5	15044.3
55°	15704.9	15629.4	16257.7	16737.7	16799.8	16532.8	16646.1	16640.7	16171.5	15607.9	15626.7
57.5°	15853.3	15842.5	16635.3	17651.9	18299.1	18331.4	18107.6	17535.9	16524.7	15767.0	15718.4
60°	15179.1	15246.5	16335.9	18129.2	19855.0	20572.3	19604.2	17972.8	16122.9	15071.2	14947.2
62.5°	13162.1	13340.0	14653.3	17546.7	21111.6	23150.2	20804.2	17309.4	14472.6	13100.0	13019.1
65°	9432.7	9742.8	11193.5	14974.2	20998.3	25415.4	20631.6	14852.8	11301.4	9718.5	9602.6
67.5°	4279.5	4595.0	5827.3	10252.4	18253.2	24800.5	18210.1	10360.3	6118.6	4611.2	4543.8
70°	1550.5	1604.5	2000.9	4104.2	11665.4	19760.6	12164.3	4133.9	2127.6	1709.6	1688.1
72.5°	938.4	946.5	1030.1	1469.6	4053.0	11997.1	4225.6	1518.2	1051.7	933.0	949.2
75°	595.9	590.6	733.5	898.0	1437.3	4047.6	1507.4	898.0	730.8	666.1	671.5
77.5°	428.8	442.2	525.8	671.5	906.1	1372.6	889.9	641.8	525.8	431.5	439.5
80°	320.9	329.0	382.9	523.1	636.4	854.8	566.3	474.6	396.4	269.7	277.7
82.5°	231.9	231.9	250.8	380.2	388.3	461.1	307.4	334.4	261.6	191.5	191.5
85°	137.5	134.8	156.4	226.5	202.2	169.9	140.2	204.9	164.5	118.6	116.0
87.5°	48.5	51.2	48.5	64.7	53.9	45.8	43.1	56.6	45.8	40.4	37.8
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)