

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: P954134

Luminaire Tested: **GALN-SB7C-727-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954134
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-SB7C-727-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51766 lumens
Efficiency: N/A
Efficacy: 147.7 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): 350.5
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

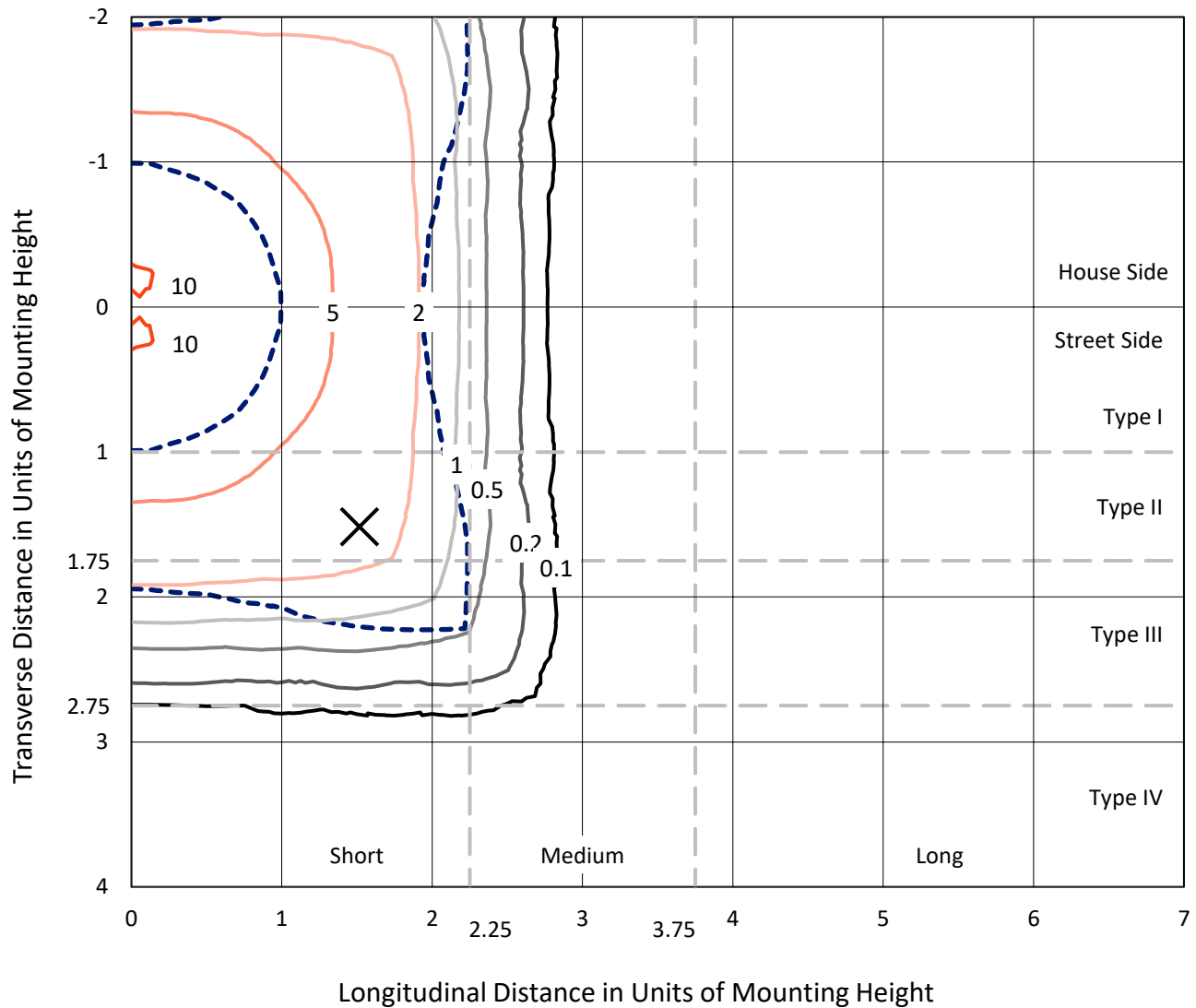


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

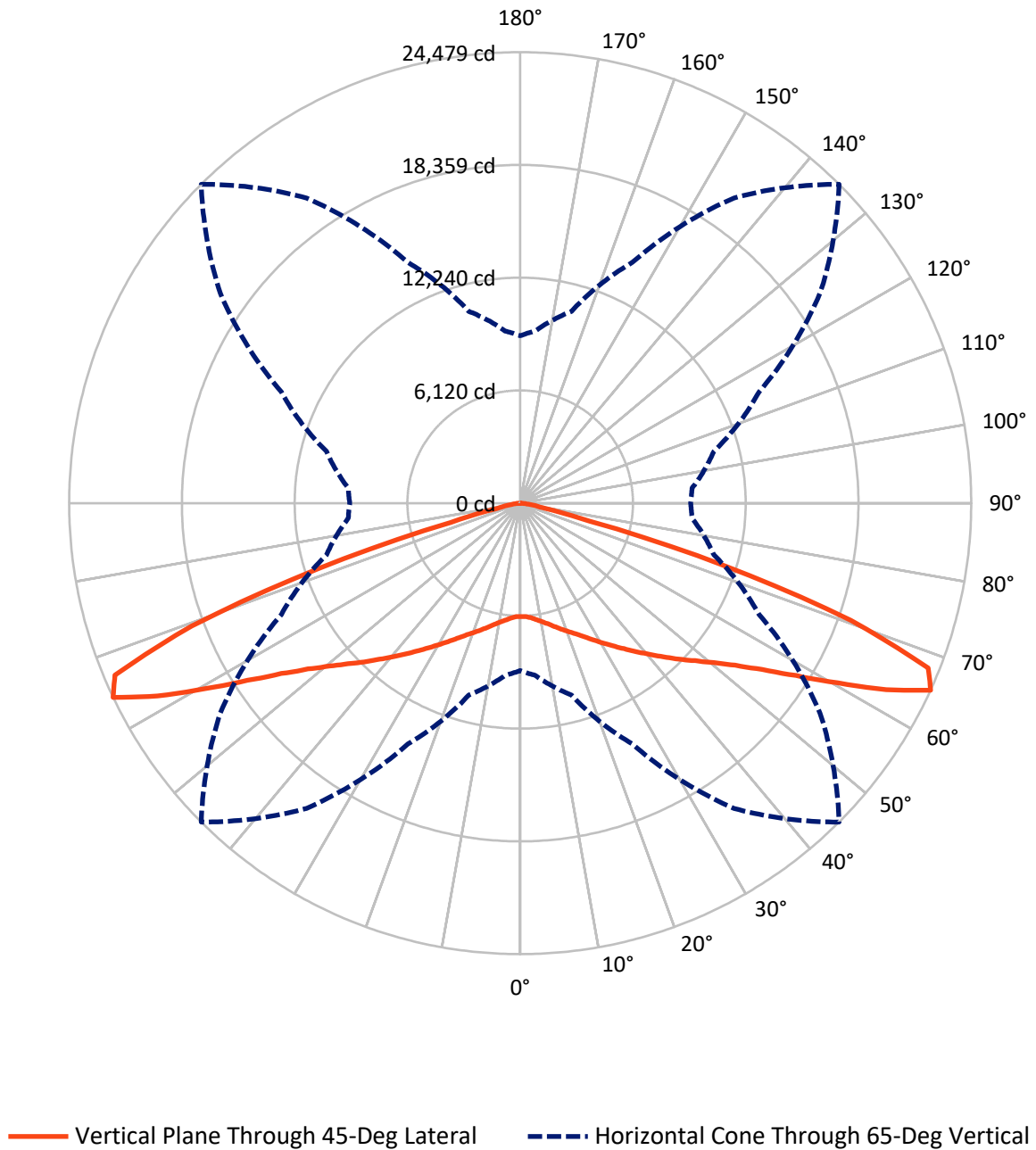


Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25883.0	0.0	25883.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25883.0	0.0	25883.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	51766.0	0.0	51766.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	608.0	1.2
10°-20°	1983.9	3.8
20°-30°	3745.9	7.2
30°-40°	6133.8	11.8
40°-50°	9510.5	18.4
50°-60°	14049.0	27.1
60°-70°	13373.4	25.8
70°-80°	2158.0	4.2
80°-90°	203.4	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°	51766.0	100.0
0°-180°	51766.0	100.0

Coefficient of Utilization



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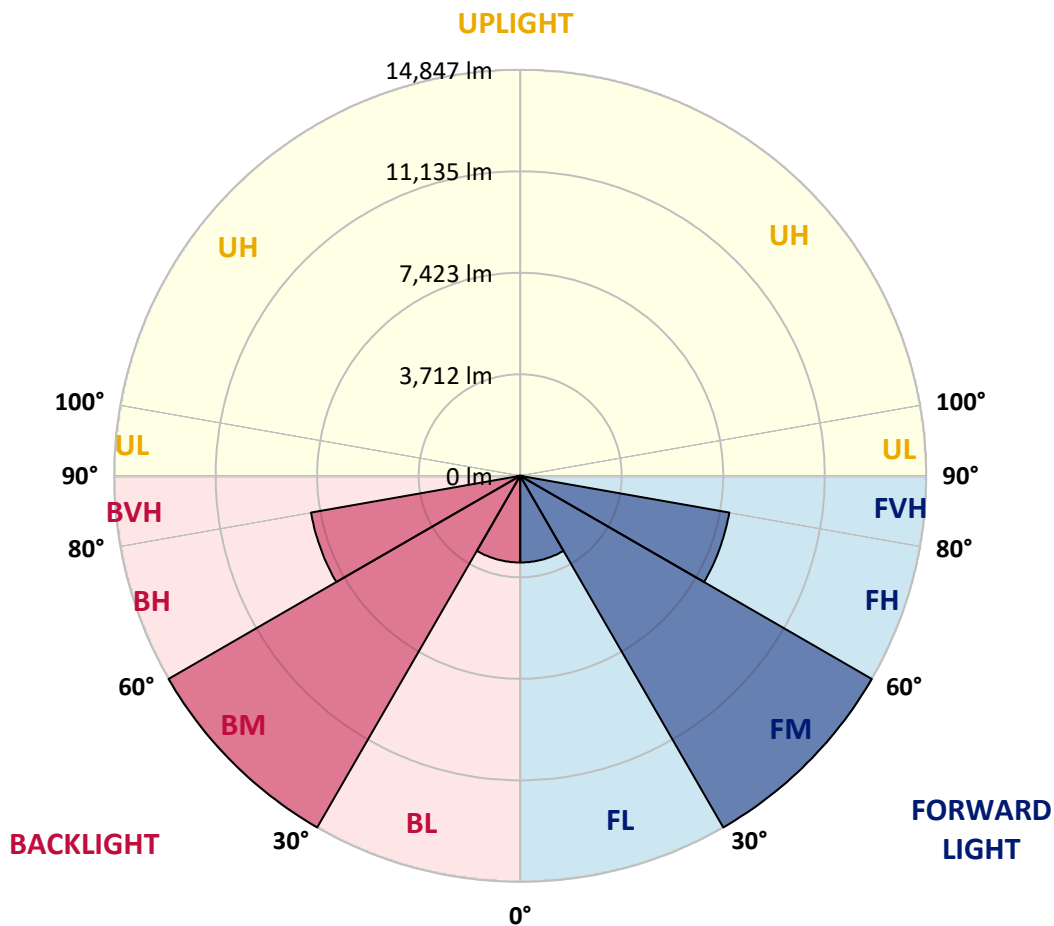
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3168.9	6.1			
FM	(30°-60°)	14846.7	28.7			
FH	(60°-80°)	7765.7	15.0			G4/12000
FVH	(80°-90°)	101.7	0.2			G2/225
BL	(0°-30°)	3168.9	6.1	B4/5000		
BM	(30°-60°)	14846.7	28.7	B5		
BH	(60°-80°)	7765.7	15.0	B5		G4/12000
BVH	(80°-90°)	101.7	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°	6160.7	6160.7	6160.7	6160.7	6160.7	6160.7	6160.7	6160.7	6160.7	6160.7	6160.7
2.5°	6202.2	6181.4	6197.0	6184.0	6173.7	6163.3	6168.5	6186.6	6194.4	6197.0	6197.0
5°	6285.3	6267.2	6275.0	6275.0	6256.8	6251.6	6254.2	6267.2	6282.7	6282.7	6282.7
7.5°	6420.4	6402.2	6420.4	6410.0	6394.4	6389.2	6386.6	6397.0	6420.4	6420.4	6412.6
10°	6584.0	6563.2	6573.6	6568.4	6550.3	6542.5	6539.9	6555.5	6576.2	6573.6	6568.4
12.5°	6763.2	6739.9	6752.8	6737.3	6732.1	6724.3	6724.3	6721.7	6734.7	6724.3	6729.5
15°	6963.2	6947.6	6952.8	6942.4	6950.2	6945.0	6924.3	6913.9	6919.1	6903.5	6906.1
17.5°	7199.6	7163.2	7181.4	7176.2	7176.2	7186.6	7152.8	7139.8	7150.2	7134.6	7147.6
20°	7472.3	7435.9	7443.7	7433.3	7420.3	7430.7	7389.2	7399.6	7407.4	7397.0	7420.3
22.5°	7771.0	7724.2	7721.6	7726.8	7698.2	7700.8	7672.3	7698.2	7713.8	7685.3	7713.8
25°	8077.4	8028.1	8061.9	8048.9	8012.5	8020.3	7999.5	8025.5	8038.5	8002.1	8043.7
27.5°	8402.1	8368.3	8399.5	8407.3	8363.1	8394.3	8363.1	8386.5	8399.5	8345.0	8386.5
30°	8781.3	8747.5	8776.1	8796.9	8744.9	8794.3	8768.3	8783.9	8786.5	8721.6	8760.5
32.5°	9194.3	9142.3	9215.0	9225.4	9168.3	9228.0	9194.3	9215.0	9228.0	9139.7	9199.5
35°	9698.1	9633.2	9716.3	9703.3	9654.0	9703.3	9672.2	9703.3	9734.5	9628.0	9692.9
37.5°	10240.9	10173.4	10261.7	10238.4	10191.6	10225.4	10207.2	10228.0	10277.3	10163.0	10233.2
40°	10838.3	10755.2	10874.7	10833.1	10789.0	10783.8	10794.2	10807.1	10872.1	10744.8	10786.4
42.5°	11477.2	11388.9	11568.1	11503.2	11440.9	11399.3	11433.1	11459.1	11521.4	11378.5	11453.9
45°	12207.1	12105.8	12339.5	12261.6	12162.9	12077.2	12131.7	12170.7	12261.6	12090.2	12178.5
47.5°	13012.2	12897.9	13147.3	13123.9	12962.9	12775.9	12900.5	13012.2	13079.7	12872.0	12942.1
50°	13799.2	13710.9	14038.1	14066.7	13869.3	13607.0	13781.0	13949.8	13968.0	13695.3	13729.1
52.5°	14536.8	14448.5	14923.8	15103.0	14926.4	14614.7	14799.1	14970.5	14832.9	14479.7	14490.0
55°	15126.4	15053.6	15658.8	16121.1	16180.9	15923.7	16032.8	16027.6	15575.7	15032.9	15051.1
57.5°	15269.2	15258.8	16022.4	17001.6	17624.9	17656.1	17440.5	16889.9	15915.9	15186.1	15139.4
60°	14619.9	14684.8	15734.1	17461.3	19123.5	19814.4	18882.0	17310.7	15528.9	14516.0	14396.5
62.5°	12677.2	12848.6	14113.4	16900.3	20333.9	22297.4	20037.8	16671.7	13939.4	12617.4	12539.5
65°	9085.2	9383.9	10781.2	14422.5	20224.8	24479.1	19871.5	14305.6	10885.1	9360.5	9248.8
67.5°	4121.8	4425.7	5612.7	9874.7	17580.8	23886.9	17539.2	9978.6	5893.2	4441.3	4376.4
70°	1493.4	1545.4	1927.2	3953.0	11235.7	19032.6	11716.2	3981.6	2049.2	1646.7	1625.9
72.5°	903.8	911.6	992.1	1415.5	3903.7	11555.2	4069.9	1462.3	1012.9	898.6	914.2
75°	574.0	568.8	706.5	864.9	1384.3	3898.5	1451.9	864.9	703.9	641.5	646.7
77.5°	413.0	425.9	506.5	646.7	872.7	1322.0	857.1	618.1	506.5	415.6	423.4
80°	309.1	316.9	368.8	503.9	613.0	823.3	545.4	457.1	381.8	259.7	267.5
82.5°	223.4	223.4	241.5	366.2	374.0	444.1	296.1	322.1	251.9	184.4	184.4
85°	132.5	129.9	150.6	218.2	194.8	163.6	135.1	197.4	158.4	114.3	111.7
87.5°	46.8	49.3	46.8	62.3	51.9	44.2	41.6	54.5	44.2	39.0	36.4
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)