

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: P943320

Luminaire Tested: **GALN-SB7D-730-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943320
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-SB7D-730-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 73201 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 512.8
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

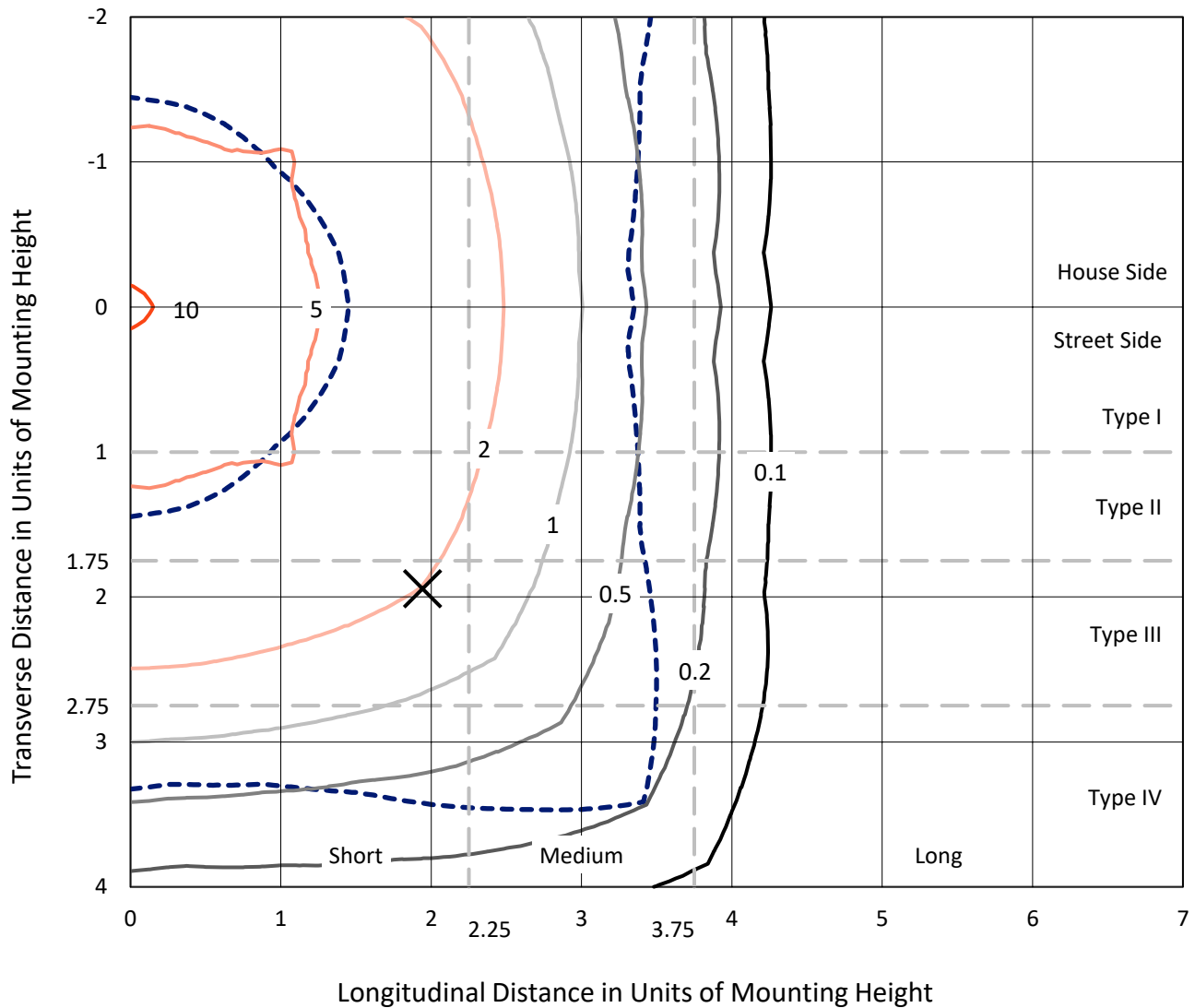


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

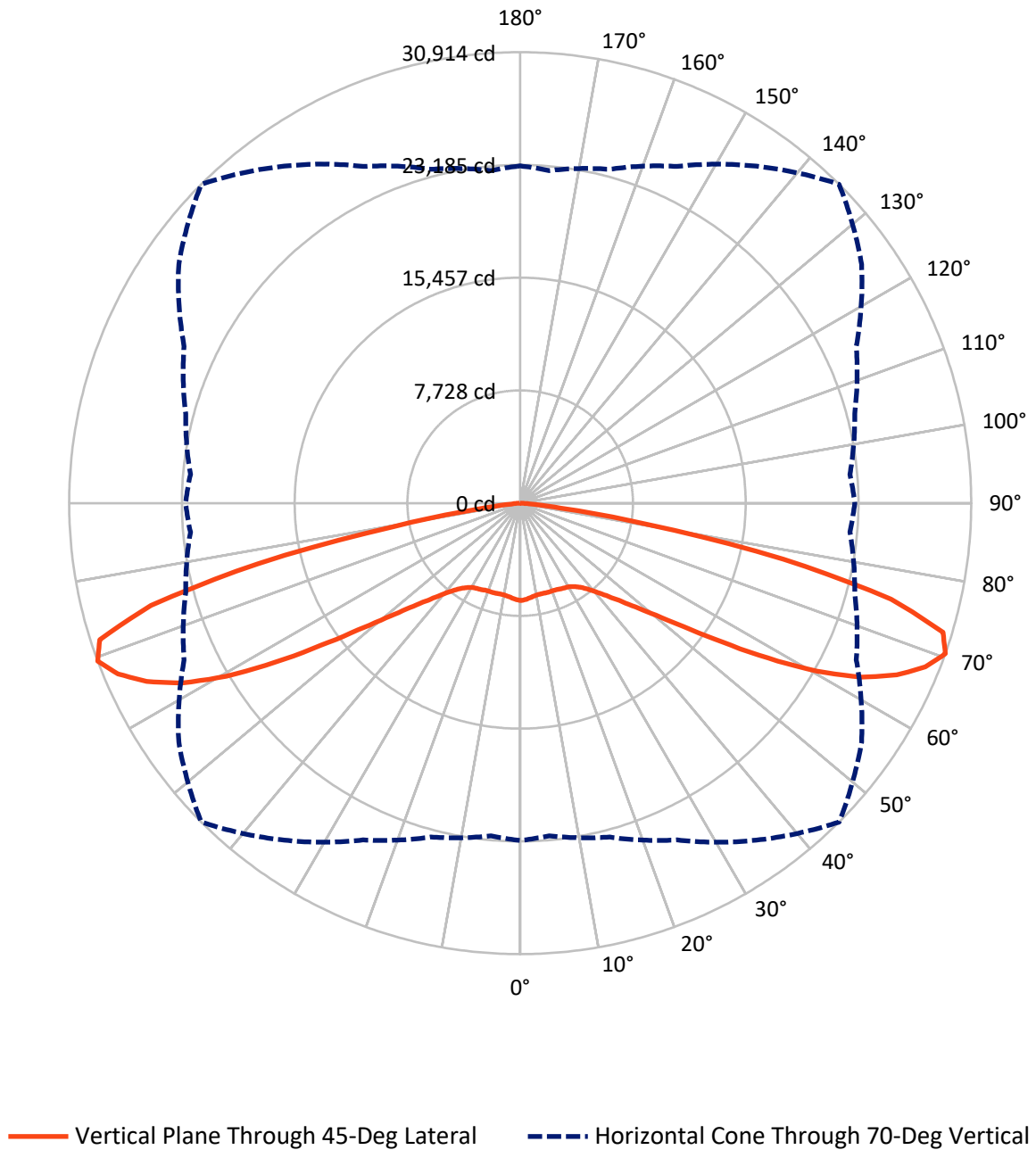


Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	36600.5	0.0	36600.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	36600.5	0.0	36600.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	73201.0	0.0	73201.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.2	0.8
10°-20°	1823.9	2.5
20°-30°	3035.2	4.1
30°-40°	4590.1	6.3
40°-50°	7627.7	10.4
50°-60°	14393.1	19.7
60°-70°	24303.4	33.2
70°-80°	15969.8	21.8
80°-90°	836.7	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°	73201.0	100.0
0°-180°	73201.0	100.0

Coefficient of Utilization



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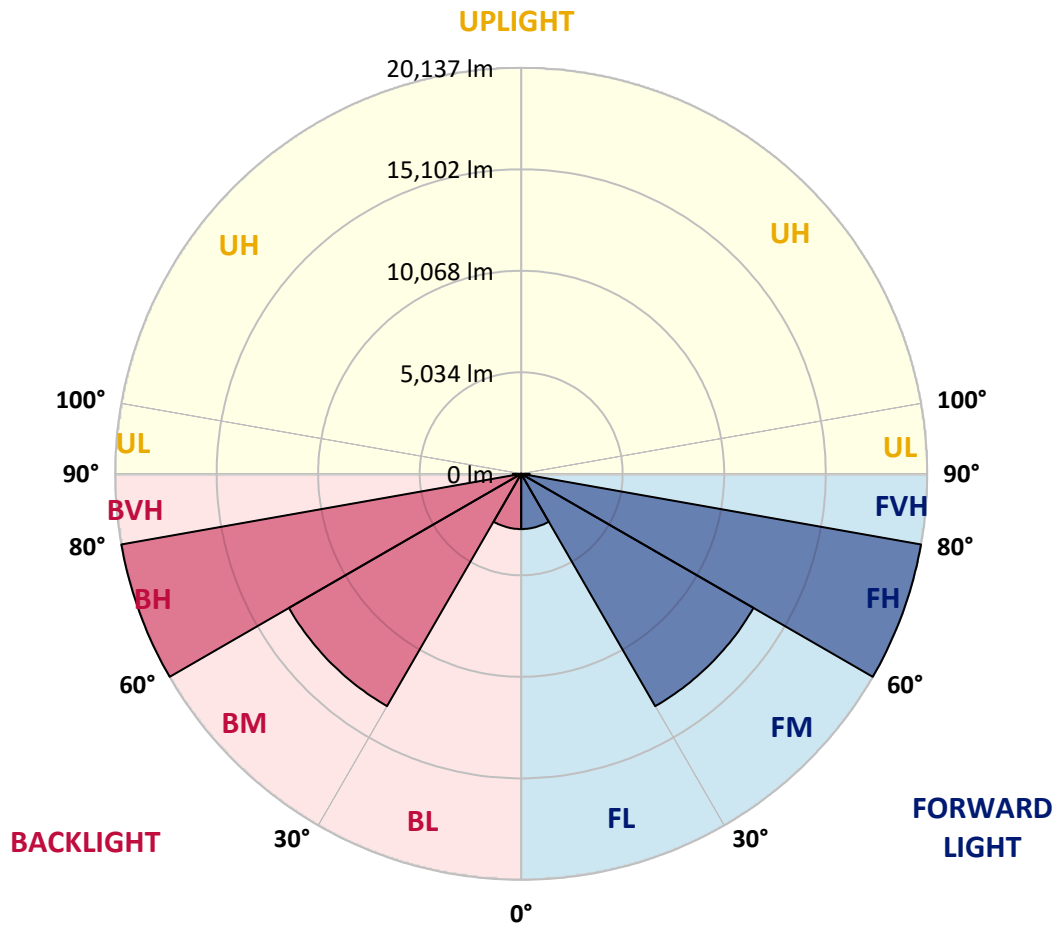
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2740.1	3.7			
FM	(30°-60°)	13305.5	18.2			
FH	(60°-80°)	20136.6	27.5			G5
FVH	(80°-90°)	418.3	0.6			G3/500
BL	(0°-30°)	2740.1	3.7	B4/5000		
BM	(30°-60°)	13305.5	18.2	B5		
BH	(60°-80°)	20136.6	27.5	B5		G5
BVH	(80°-90°)	418.3	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-G5

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6677.4	6677.4	6677.4	6677.4	6677.4	6677.4	6677.4	6677.4	6677.4	6677.4	6677.4
2.5°	6635.6	6654.6	6647.0	6631.7	6631.7	6620.3	6631.7	6639.4	6650.8	6658.4	6654.6
5°	6548.0	6563.3	6559.5	6548.0	6551.8	6540.4	6548.0	6559.5	6567.1	6570.9	6570.9
7.5°	6471.9	6487.2	6479.6	6460.5	6460.5	6449.1	6452.9	6464.3	6475.8	6479.6	6479.6
10°	6452.9	6468.1	6445.3	6414.9	6403.5	6388.2	6392.0	6403.5	6426.3	6437.7	6437.7
12.5°	6460.5	6471.9	6449.1	6403.5	6392.0	6376.8	6376.8	6388.2	6418.7	6433.9	6437.7
15°	6483.4	6494.8	6460.5	6411.1	6399.7	6388.2	6384.4	6399.7	6433.9	6460.5	6464.3
17.5°	6525.2	6536.6	6483.4	6414.9	6399.7	6403.5	6399.7	6411.1	6464.3	6513.8	6513.8
20°	6563.3	6570.9	6498.6	6414.9	6399.7	6403.5	6399.7	6422.5	6491.0	6559.5	6563.3
22.5°	6574.7	6582.3	6513.8	6441.5	6430.1	6433.9	6430.1	6452.9	6517.6	6586.1	6586.1
25°	6578.5	6589.9	6536.6	6479.6	6498.6	6506.2	6498.6	6502.4	6551.8	6612.7	6608.9
27.5°	6635.6	6650.8	6601.3	6551.8	6563.3	6559.5	6570.9	6582.3	6620.3	6681.2	6666.0
30°	6753.5	6764.9	6723.1	6673.6	6666.0	6639.4	6673.6	6711.6	6753.5	6806.8	6795.4
32.5°	6947.5	6970.4	6917.1	6863.8	6829.6	6814.4	6841.0	6905.7	6962.8	7019.8	6997.0
35°	7271.0	7286.2	7236.7	7137.8	7076.9	7076.9	7099.7	7183.4	7274.8	7347.0	7320.4
37.5°	7727.5	7746.6	7659.0	7541.1	7449.8	7449.8	7480.2	7567.7	7704.7	7807.4	7769.4
40°	8283.0	8309.7	8199.3	8077.6	7990.1	7974.8	8012.9	8111.8	8241.2	8370.5	8328.7
42.5°	8952.7	8983.1	8838.5	8732.0	8663.5	8663.5	8682.5	8773.8	8891.8	9051.6	9040.2
45°	9808.7	9862.0	9664.2	9557.6	9492.9	9508.2	9519.6	9599.5	9706.0	9888.6	9881.0
47.5°	10828.4	10881.7	10672.4	10562.1	10550.7	10623.0	10577.3	10634.4	10691.5	10900.7	10839.8
50°	11985.1	12076.4	11931.8	11924.2	11947.0	12080.2	11973.7	12004.1	11939.4	12072.6	11992.7
52.5°	13400.5	13533.6	13507.0	13552.7	13807.6	14081.5	13838.0	13731.5	13488.0	13529.8	13389.1
55°	15116.4	15318.1	15356.1	15630.1	16208.4	16767.7	16250.3	15820.3	15302.9	15207.7	15059.4
57.5°	17068.3	17228.1	17410.7	17970.0	19050.6	20043.6	19050.6	18099.4	17285.2	17091.1	16954.1
60°	19168.5	19366.4	19541.4	20367.0	21972.7	23369.0	21942.2	20431.7	19355.0	19092.4	18864.1
62.5°	21424.8	21679.7	21801.4	22718.4	24590.4	26256.9	24617.0	22786.9	21592.2	21310.6	21082.3
65°	23589.7	23799.0	23935.9	24913.8	26702.0	28372.3	26823.8	25020.3	23791.3	23422.3	23239.7
67.5°	24598.0	24712.1	25046.9	26154.1	28041.3	29947.5	28360.9	26272.1	24898.5	24251.7	24259.3
70°	23121.7	22889.6	23696.2	25469.3	28201.1	30913.9	28566.4	25416.0	23734.3	22684.2	22935.3
72.5°	17867.3	17467.8	18867.9	21900.4	26374.8	30297.5	26557.4	22071.6	19739.2	17608.6	18137.4
75°	9721.2	9268.5	11201.3	15036.5	21032.9	26260.7	21516.1	15466.5	12472.1	9648.9	10276.7
77.5°	2743.3	2572.0	4132.0	7274.8	12650.9	18438.0	13137.9	7434.6	4900.6	2906.9	3230.3
80°	840.9	814.2	1103.4	2191.6	5372.4	8830.9	5163.1	2218.2	1404.0	886.5	936.0
82.5°	498.4	456.6	547.9	799.0	1369.7	2773.7	1331.7	833.2	669.6	449.0	487.0
85°	285.4	266.3	323.4	388.1	460.4	589.7	384.3	395.7	357.7	239.7	251.1
87.5°	117.9	106.5	125.6	121.8	106.5	137.0	102.7	121.8	144.6	95.1	87.5
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)