

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: P950942

Luminaire Tested: **GALN-SB5B-730-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950942
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-SB5B-730-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 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: 29807 lumens
Efficiency: N/A
Efficacy: 163.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 182.7
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

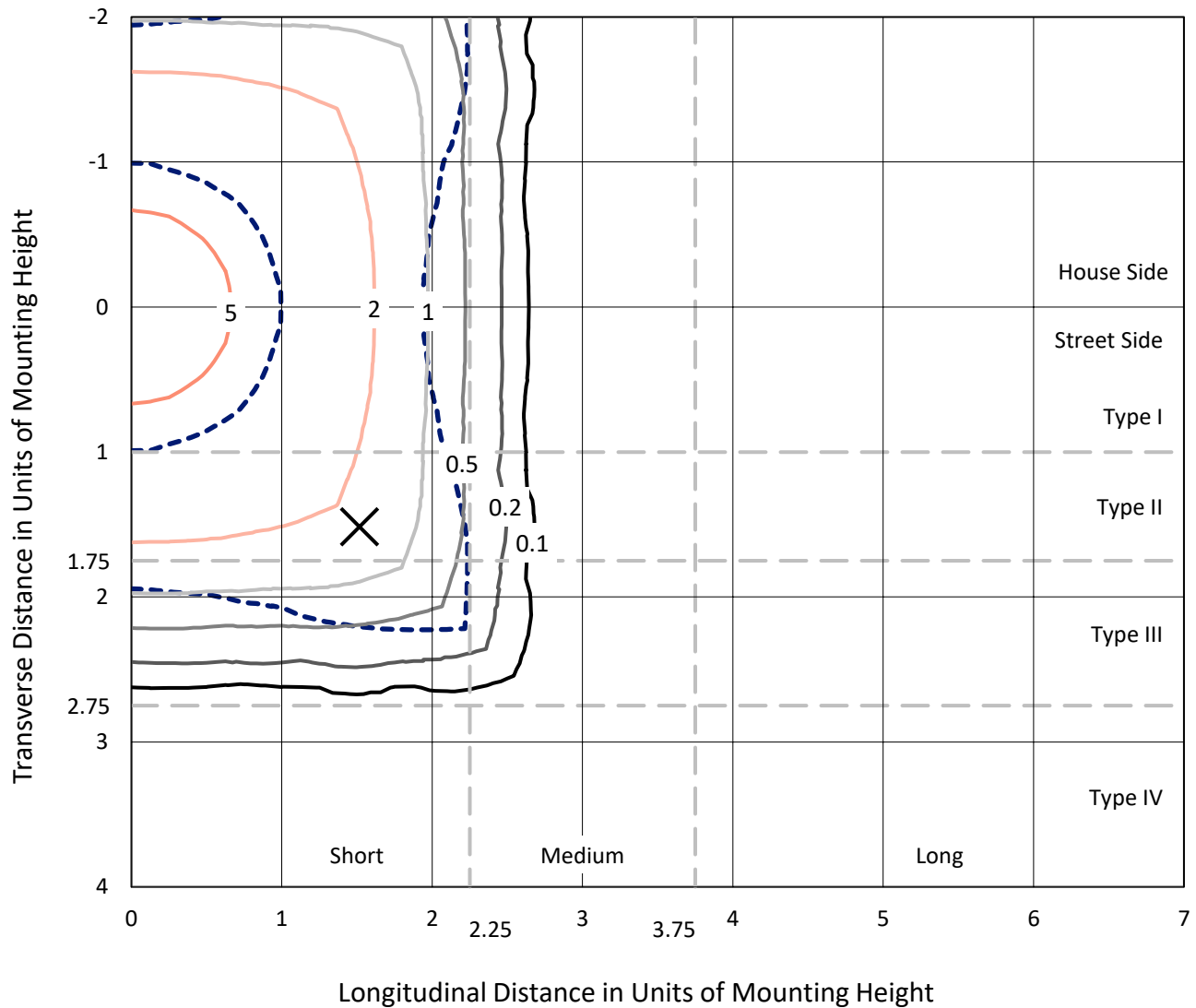


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

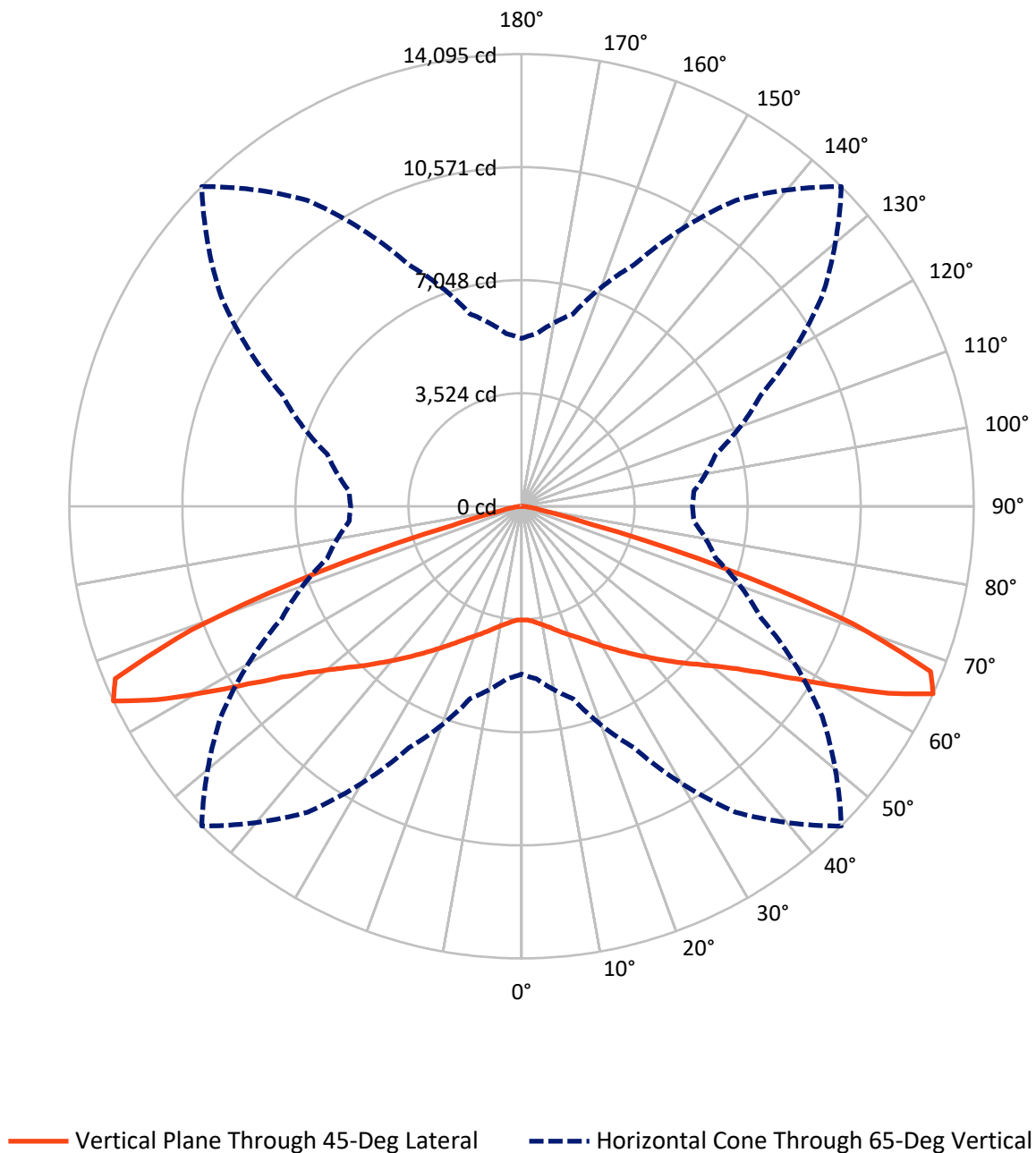


Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14903.5	0.0	14903.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14903.5	0.0	14903.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29807.0	0.0	29807.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.1	1.2
10°-20°	1142.4	3.8
20°-30°	2156.9	7.2
30°-40°	3531.9	11.8
40°-50°	5476.2	18.4
50°-60°	8089.5	27.1
60°-70°	7700.4	25.8
70°-80°	1242.6	4.2
80°-90°	117.1	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°	29807.0	100.0
0°-180°	29807.0	100.0

Coefficient of Utilization



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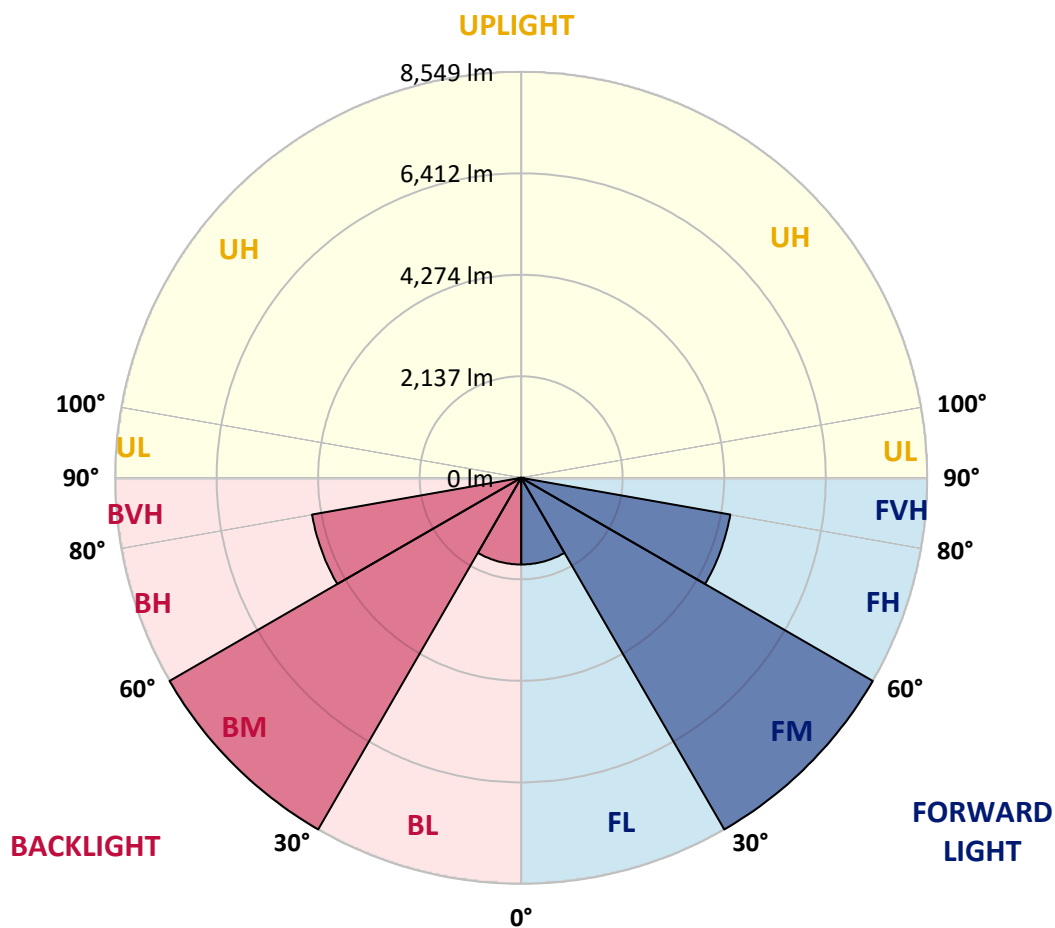
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1824.7	6.1			
FM	(30°-60°)	8548.8	28.7			
FH	(60°-80°)	4471.5	15.0			G2/5000
FVH	(80°-90°)	58.6	0.2			G1/100
BL	(0°-30°)	1824.7	6.1	B3/2500		
BM	(30°-60°)	8548.8	28.7	B5		
BH	(60°-80°)	4471.5	15.0	B4/5000		G2/5000
BVH	(80°-90°)	58.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3547.3	3547.3	3547.3	3547.3	3547.3	3547.3	3547.3	3547.3	3547.3	3547.3	3547.3
2.5°	3571.3	3559.3	3568.3	3560.8	3554.8	3548.8	3551.8	3562.3	3566.8	3568.3	3568.3
5°	3619.1	3608.6	3613.1	3613.1	3602.7	3599.7	3601.2	3608.6	3617.6	3617.6	3617.6
7.5°	3696.9	3686.4	3696.9	3690.9	3681.9	3678.9	3677.4	3683.4	3696.9	3696.9	3692.4
10°	3791.1	3779.1	3785.1	3782.1	3771.7	3767.2	3765.7	3774.6	3786.6	3785.1	3782.1
12.5°	3894.3	3880.8	3888.3	3879.3	3876.3	3871.9	3871.9	3870.4	3877.8	3871.9	3874.8
15°	4009.4	4000.5	4003.5	3997.5	4002.0	3999.0	3987.0	3981.0	3984.0	3975.0	3976.5
17.5°	4145.5	4124.6	4135.1	4132.1	4132.1	4138.1	4118.6	4111.1	4117.1	4108.1	4115.6
20°	4302.6	4281.6	4286.1	4280.1	4272.6	4278.6	4254.7	4260.7	4265.2	4259.2	4272.6
22.5°	4474.5	4447.6	4446.1	4449.1	4432.7	4434.2	4417.7	4432.7	4441.6	4425.2	4441.6
25°	4651.0	4622.6	4642.0	4634.6	4613.6	4618.1	4606.1	4621.1	4628.6	4607.6	4631.6
27.5°	4837.9	4818.5	4836.5	4840.9	4815.5	4833.5	4815.5	4829.0	4836.5	4805.0	4829.0
30°	5056.3	5036.9	5053.3	5065.3	5035.4	5063.8	5048.8	5057.8	5059.3	5021.9	5044.3
32.5°	5294.1	5264.2	5306.0	5312.0	5279.1	5313.5	5294.1	5306.0	5313.5	5262.7	5297.1
35°	5584.2	5546.8	5594.7	5587.2	5558.8	5587.2	5569.3	5587.2	5605.1	5543.8	5581.2
37.5°	5896.8	5857.9	5908.7	5895.3	5868.4	5887.8	5877.3	5889.3	5917.7	5851.9	5892.3
40°	6240.7	6192.9	6261.7	6237.7	6212.3	6209.3	6215.3	6222.8	6260.2	6186.9	6210.8
42.5°	6608.6	6557.8	6661.0	6623.6	6587.7	6563.8	6583.2	6598.2	6634.0	6551.8	6595.2
45°	7028.9	6970.5	7105.1	7060.3	7003.4	6954.1	6985.5	7007.9	7060.3	6961.6	7012.4
47.5°	7492.5	7426.7	7570.2	7556.8	7464.1	7356.4	7428.2	7492.5	7531.3	7411.7	7452.1
50°	7945.6	7894.8	8083.2	8099.6	7986.0	7834.9	7935.1	8032.3	8042.8	7885.8	7905.2
52.5°	8370.3	8319.5	8593.2	8696.3	8594.7	8415.2	8521.4	8620.1	8540.8	8337.4	8343.4
55°	8709.8	8667.9	9016.4	9282.6	9317.0	9168.9	9231.7	9228.7	8968.5	8656.0	8666.4
57.5°	8792.1	8786.1	9225.8	9789.6	10148.5	10166.4	10042.3	9725.3	9164.4	8744.2	8717.3
60°	8418.2	8455.6	9059.8	10054.3	11011.4	11409.2	10872.3	9967.5	8941.6	8358.4	8289.6
62.5°	7299.5	7398.2	8126.6	9731.2	11708.3	12838.9	11537.8	9599.6	8026.4	7265.1	7220.3
65°	5231.3	5403.2	6207.8	8304.5	11645.5	14095.1	11442.1	8237.2	6267.6	5389.8	5325.5
67.5°	2373.4	2548.3	3231.8	5685.9	10123.1	13754.1	10099.1	5745.7	3393.3	2557.3	2519.9
70°	859.9	889.8	1109.7	2276.2	6469.5	10959.0	6746.2	2292.6	1180.0	948.1	936.2
72.5°	520.4	524.9	571.3	815.0	2247.7	6653.5	2343.5	842.0	583.2	517.4	526.4
75°	330.5	327.5	406.8	498.0	797.1	2244.7	836.0	498.0	405.3	369.4	372.4
77.5°	237.8	245.3	291.6	372.4	502.5	761.2	493.5	355.9	291.6	239.3	243.8
80°	178.0	182.5	212.4	290.1	352.9	474.1	314.1	263.2	219.8	149.6	154.0
82.5°	128.6	128.6	139.1	210.9	215.4	255.7	170.5	185.4	145.1	106.2	106.2
85°	76.3	74.8	86.7	125.6	112.2	94.2	77.8	113.7	91.2	65.8	64.3
87.5°	26.9	28.4	26.9	35.9	29.9	25.4	23.9	31.4	25.4	22.4	20.9
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)