

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: P953441

Luminaire Tested: **GALN-SB7A-730-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953441
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-SB7A-730-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33429 lumens
Efficiency: N/A
Efficacy: 167.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 199.1
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

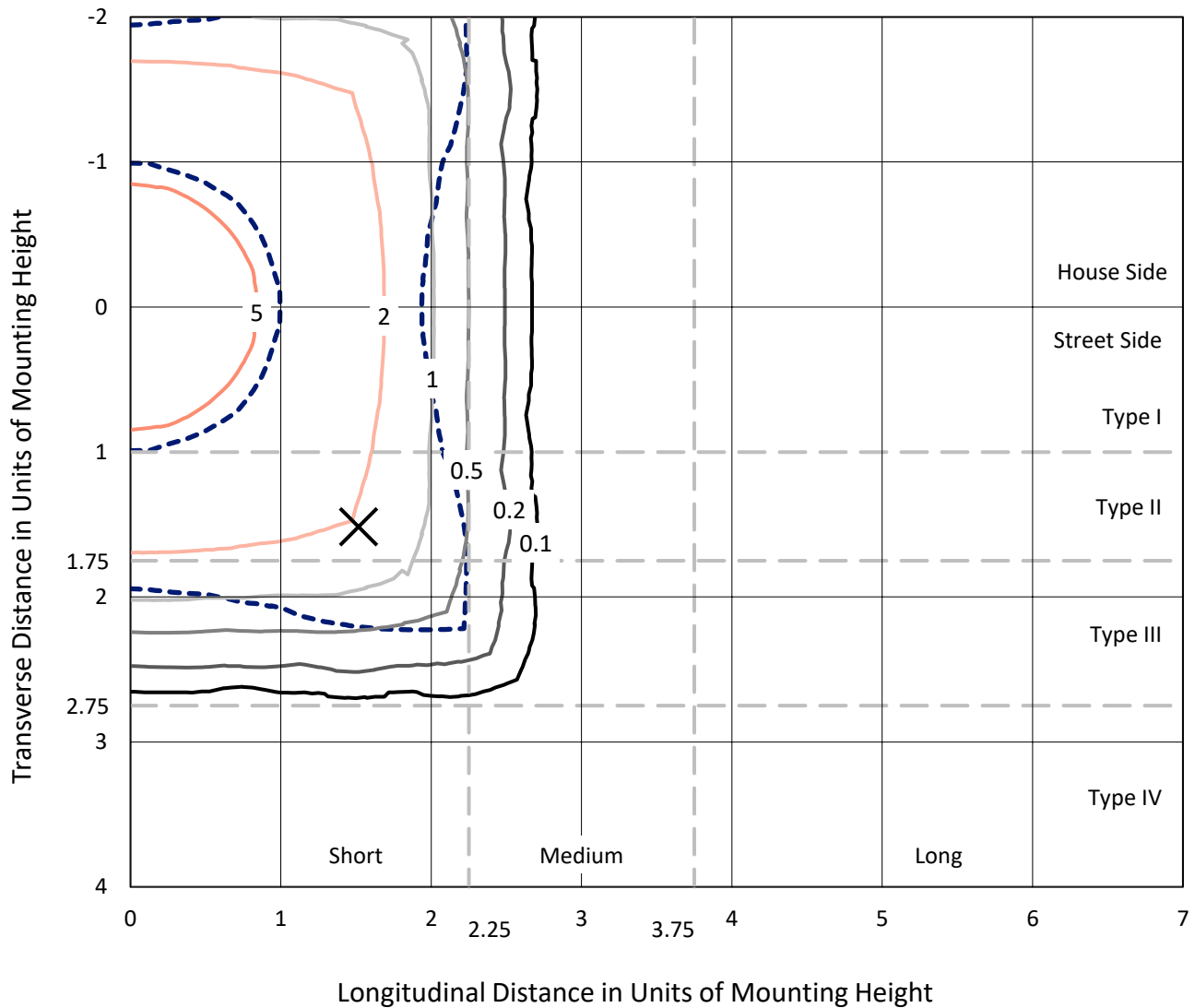


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

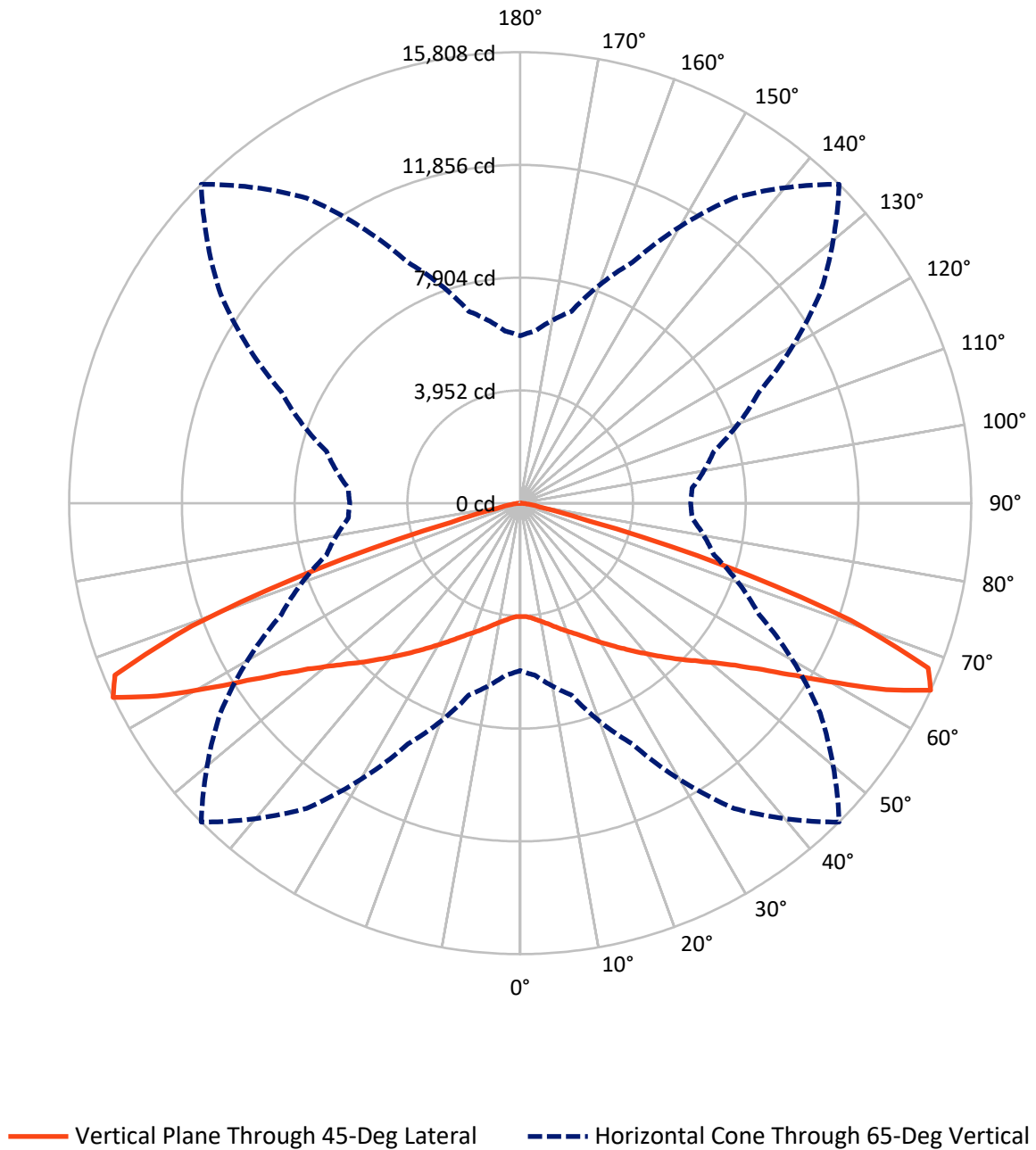


Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16714.5	0.0	16714.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16714.5	0.0	16714.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	33429.0	0.0	33429.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.6	1.2
10°-20°	1281.2	3.8
20°-30°	2419.0	7.2
30°-40°	3961.0	11.8
40°-50°	6141.6	18.4
50°-60°	9072.5	27.1
60°-70°	8636.1	25.8
70°-80°	1393.6	4.2
80°-90°	131.4	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°	33429.0	100.0
0°-180°	33429.0	100.0

Coefficient of Utilization



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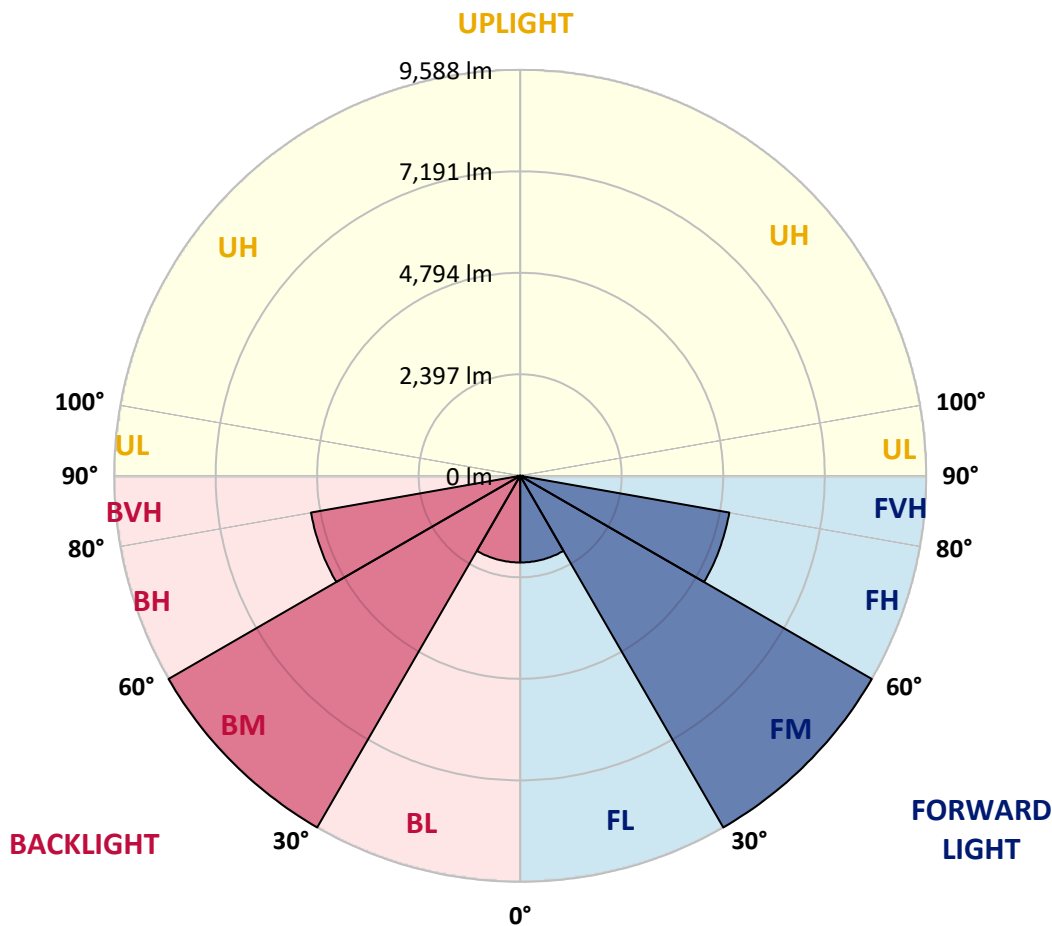
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2046.4	6.1			
FM	(30°-60°)	9587.6	28.7			
FH	(60°-80°)	5014.9	15.0			G3/7500
FVH	(80°-90°)	65.7	0.2			G1/100
BL	(0°-30°)	2046.4	6.1	B3/2500		
BM	(30°-60°)	9587.6	28.7	B5		
BH	(60°-80°)	5014.9	15.0	B5		G3/7500
BVH	(80°-90°)	65.7	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-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4
2.5°	4005.2	3991.8	4001.9	3993.5	3986.8	3980.1	3983.4	3995.2	4000.2	4001.9	4001.9
5°	4058.9	4047.2	4052.2	4052.2	4040.4	4037.1	4038.8	4047.2	4057.2	4057.2	4057.2
7.5°	4146.1	4134.4	4146.1	4139.4	4129.3	4126.0	4124.3	4131.0	4146.1	4146.1	4141.1
10°	4251.8	4238.4	4245.1	4241.7	4230.0	4224.9	4223.3	4233.3	4246.7	4245.1	4241.7
12.5°	4367.5	4352.4	4360.8	4350.7	4347.4	4342.3	4342.3	4340.7	4349.1	4342.3	4345.7
15°	4496.6	4486.6	4489.9	4483.2	4488.3	4484.9	4471.5	4464.8	4468.1	4458.1	4459.7
17.5°	4649.3	4625.8	4637.5	4634.2	4634.2	4640.9	4619.1	4610.7	4617.4	4607.3	4615.7
20°	4825.4	4801.9	4806.9	4800.2	4791.8	4798.5	4771.7	4778.4	4783.5	4776.7	4791.8
22.5°	5018.3	4988.1	4986.4	4989.8	4971.3	4973.0	4954.5	4971.3	4981.4	4962.9	4981.4
25°	5216.2	5184.3	5206.1	5197.7	5174.2	5179.3	5165.9	5182.6	5191.0	5167.5	5194.4
27.5°	5425.8	5404.0	5424.2	5429.2	5400.7	5420.8	5400.7	5415.8	5424.2	5388.9	5415.8
30°	5670.7	5648.9	5667.4	5680.8	5647.2	5679.1	5662.3	5672.4	5674.1	5632.1	5657.3
32.5°	5937.4	5903.8	5950.8	5957.5	5920.6	5959.2	5937.4	5950.8	5959.2	5902.2	5940.7
35°	6262.8	6220.8	6274.5	6266.1	6234.3	6266.1	6246.0	6266.1	6286.3	6217.5	6259.4
37.5°	6613.3	6569.7	6626.7	6611.6	6581.4	6603.2	6591.5	6604.9	6636.8	6563.0	6608.3
40°	6999.1	6945.4	7022.6	6995.7	6967.2	6963.9	6970.6	6978.9	7020.9	6938.7	6965.5
42.5°	7411.7	7354.6	7470.4	7428.4	7388.2	7361.4	7383.2	7399.9	7440.2	7347.9	7396.6
45°	7883.0	7817.6	7968.5	7918.2	7854.5	7799.1	7834.3	7859.5	7918.2	7807.5	7864.5
47.5°	8402.9	8329.1	8490.1	8475.0	8371.0	8250.3	8330.8	8402.9	8446.5	8312.3	8357.6
50°	8911.1	8854.1	9065.4	9083.9	8956.4	8787.0	8899.4	9008.4	9020.1	8844.0	8865.8
52.5°	9387.4	9330.4	9637.4	9753.1	9639.0	9437.8	9556.8	9667.5	9578.7	9350.5	9357.3
55°	9768.2	9721.2	10112.0	10410.6	10449.1	10283.1	10353.5	10350.2	10058.3	9707.8	9719.5
57.5°	9860.4	9853.7	10346.8	10979.1	11381.7	11401.8	11262.6	10907.0	10278.1	9806.8	9776.6
60°	9441.1	9483.0	10160.6	11276.0	12349.4	12795.6	12193.4	11178.7	10028.1	9374.0	9296.9
62.5°	8186.6	8297.2	9114.1	10913.7	13131.0	14399.0	12939.8	10766.1	9001.7	8148.0	8097.7
65°	5866.9	6059.8	6962.2	9313.6	13060.6	15807.9	12832.5	9238.2	7029.3	6044.7	5972.6
67.5°	2661.8	2858.0	3624.5	6376.8	11353.2	15425.5	11326.3	6443.9	3805.6	2868.1	2826.1
70°	964.4	998.0	1244.5	2552.7	7255.7	12290.7	7566.0	2571.2	1323.3	1063.4	1049.9
72.5°	583.7	588.7	640.7	914.1	2520.9	7462.0	2628.2	944.3	654.1	580.3	590.4
75°	370.7	367.3	456.2	558.5	894.0	2517.5	937.6	558.5	454.5	414.3	417.6
77.5°	266.7	275.1	327.1	417.6	563.5	853.7	553.5	399.2	327.1	268.4	273.4
80°	199.6	204.6	238.2	325.4	395.8	531.7	352.2	295.2	246.6	167.7	172.8
82.5°	144.2	144.2	156.0	236.5	241.5	286.8	191.2	208.0	162.7	119.1	119.1
85°	85.5	83.9	97.3	140.9	125.8	105.7	87.2	127.5	102.3	73.8	72.1
87.5°	30.2	31.9	30.2	40.3	33.5	28.5	26.8	35.2	28.5	25.2	23.5
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)