

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: P955205

Luminaire Tested: **GALN-SB8B-727-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955205
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-SB8B-727-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44257 lumens
Efficiency: N/A
Efficacy: 151.2 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): 292.8
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

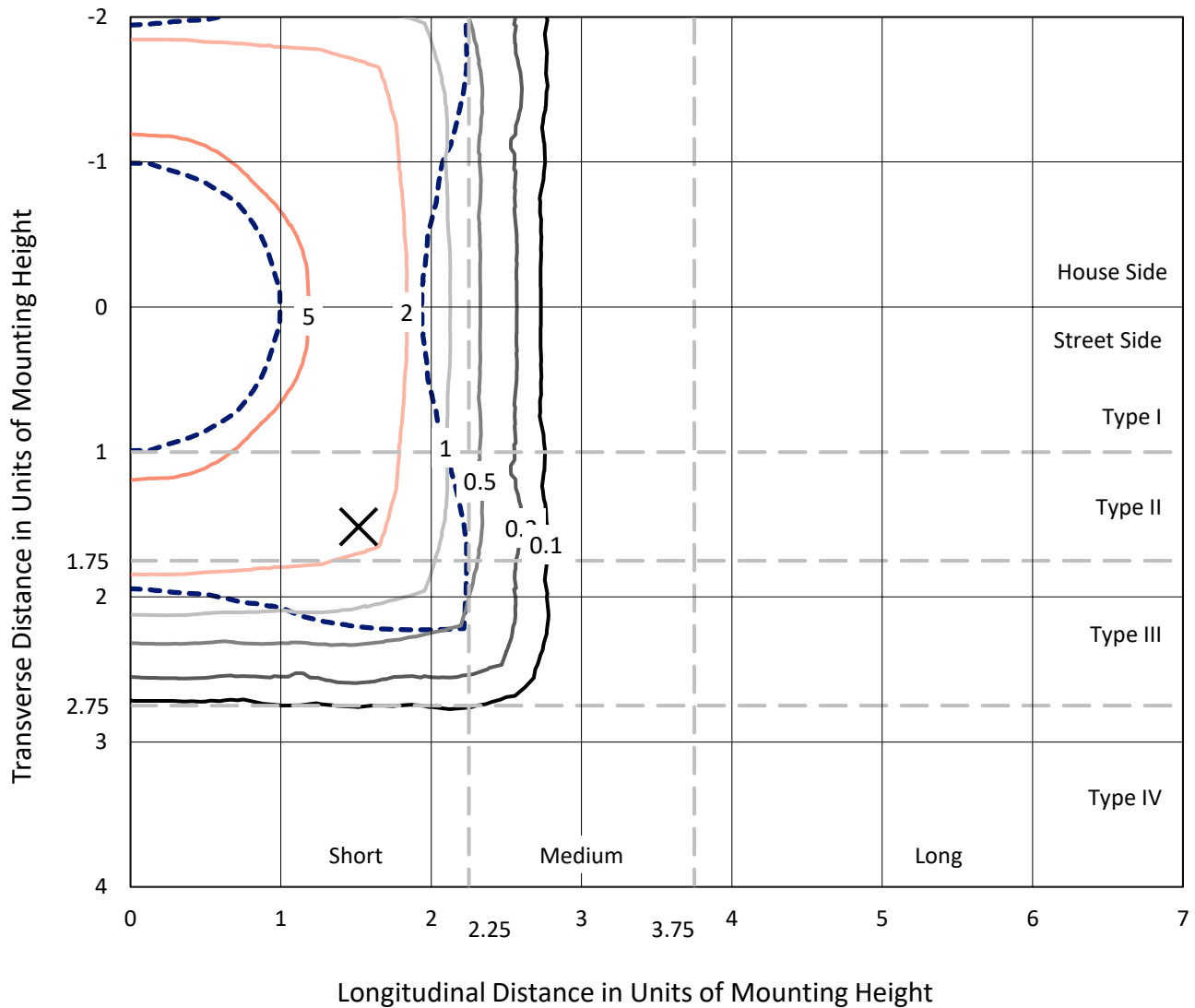


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

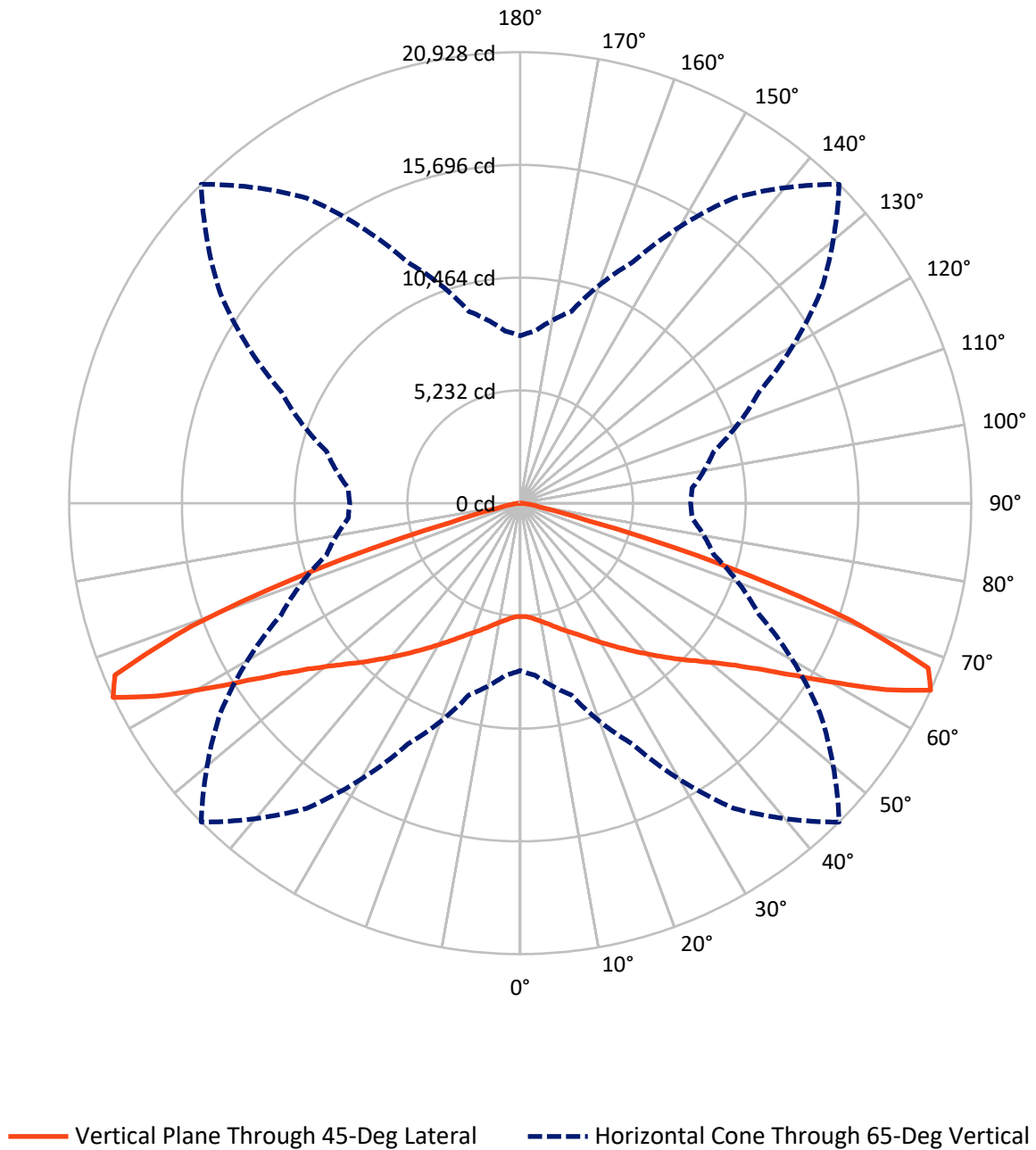


Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22128.5	0.0	22128.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22128.5	0.0	22128.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	44257.0	0.0	44257.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.8	1.2
10°-20°	1696.2	3.8
20°-30°	3202.5	7.2
30°-40°	5244.1	11.8
40°-50°	8131.0	18.4
50°-60°	12011.1	27.1
60°-70°	11433.5	25.8
70°-80°	1844.9	4.2
80°-90°	173.9	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°	44257.0	100.0
0°-180°	44257.0	100.0

Coefficient of Utilization



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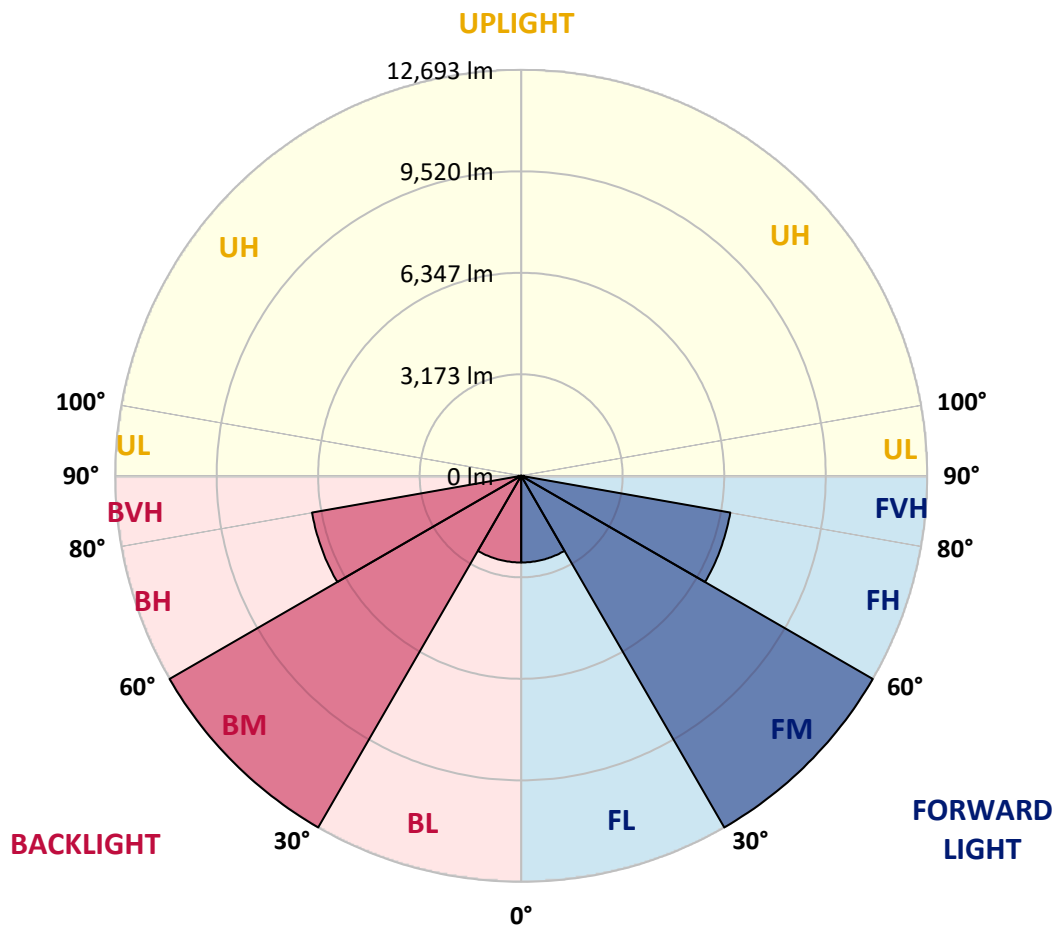
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2709.3	6.1			
FM	(30°-60°)	12693.1	28.7			
FH	(60°-80°)	6639.2	15.0			G3/7500
FVH	(80°-90°)	87.0	0.2			G1/100
BL	(0°-30°)	2709.3	6.1	B4/5000		
BM	(30°-60°)	12693.1	28.7	B5		
BH	(60°-80°)	6639.2	15.0	B5		G3/7500
BVH	(80°-90°)	87.0	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°	5267.0	5267.0	5267.0	5267.0	5267.0	5267.0	5267.0	5267.0	5267.0	5267.0	5267.0
2.5°	5302.6	5284.8	5298.1	5287.0	5278.1	5269.2	5273.7	5289.2	5295.9	5298.1	5298.1
5°	5373.6	5358.1	5364.7	5364.7	5349.2	5344.7	5347.0	5358.1	5371.4	5371.4	5371.4
7.5°	5489.1	5473.5	5489.1	5480.2	5466.9	5462.4	5460.2	5469.1	5489.1	5489.1	5482.4
10°	5629.0	5611.2	5620.1	5615.6	5600.1	5593.4	5591.2	5604.5	5622.3	5620.1	5615.6
12.5°	5782.2	5762.2	5773.3	5760.0	5755.5	5748.9	5748.9	5746.7	5757.8	5748.9	5753.3
15°	5953.2	5939.8	5944.3	5935.4	5942.1	5937.6	5919.9	5911.0	5915.4	5902.1	5904.3
17.5°	6155.2	6124.1	6139.7	6135.2	6135.2	6144.1	6115.3	6104.2	6113.0	6099.7	6110.8
20°	6388.4	6357.3	6364.0	6355.1	6344.0	6352.9	6317.3	6326.2	6332.9	6324.0	6344.0
22.5°	6643.7	6603.8	6601.5	6606.0	6581.6	6583.8	6559.4	6581.6	6594.9	6570.5	6594.9
25°	6905.8	6863.6	6892.4	6881.3	6850.2	6856.9	6839.1	6861.3	6872.4	6841.4	6876.9
27.5°	7183.3	7154.5	7181.1	7187.8	7150.0	7176.7	7150.0	7170.0	7181.1	7134.5	7170.0
30°	7507.5	7478.6	7503.1	7520.8	7476.4	7518.6	7496.4	7509.7	7512.0	7456.4	7489.7
32.5°	7860.6	7816.2	7878.3	7887.2	7838.4	7889.4	7860.6	7878.3	7889.4	7813.9	7865.0
35°	8291.3	8235.8	8306.9	8295.8	8253.6	8295.8	8269.1	8295.8	8322.4	8231.4	8286.9
37.5°	8755.4	8697.7	8773.2	8753.2	8713.2	8742.1	8726.6	8744.3	8786.5	8688.8	8748.8
40°	9266.1	9195.1	9297.2	9261.7	9224.0	9219.5	9228.4	9239.5	9295.0	9186.2	9221.7
42.5°	9812.4	9736.9	9890.1	9834.6	9781.3	9745.8	9774.6	9796.8	9850.1	9728.0	9792.4
45°	10436.3	10349.7	10549.6	10483.0	10398.6	10325.3	10372.0	10405.3	10483.0	10336.4	10411.9
47.5°	11124.7	11027.0	11240.2	11220.2	11082.5	10922.6	11029.2	11124.7	11182.4	11004.8	11064.8
50°	11797.5	11722.0	12001.8	12026.2	11857.5	11633.2	11782.0	11926.3	11941.8	11708.7	11737.6
52.5°	12428.1	12352.6	12759.0	12912.2	12761.2	12494.8	12652.4	12799.0	12681.3	12379.3	12388.2
55°	12932.2	12870.0	13387.4	13782.6	13833.7	13613.9	13707.1	13702.7	13316.3	12852.3	12867.8
57.5°	13054.3	13045.4	13698.3	14535.4	15068.3	15095.0	14910.7	14439.9	13607.2	12983.3	12943.3
60°	12499.2	12554.7	13451.8	14928.4	16349.5	16940.2	16143.0	14799.6	13276.4	12410.4	12308.2
62.5°	10838.3	10984.8	12066.2	14448.8	17384.3	19063.0	17131.2	14253.4	11917.4	10787.2	10720.6
65°	7767.3	8022.7	9217.3	12330.4	17291.0	20928.2	16989.0	12230.5	9306.1	8002.7	7907.2
67.5°	3523.9	3783.7	4798.5	8442.3	15030.6	20421.9	14995.0	8531.2	5038.3	3797.1	3741.5
70°	1276.8	1321.2	1647.6	3379.6	9605.9	16271.8	10016.7	3404.0	1752.0	1407.8	1390.0
72.5°	772.7	779.4	848.2	1210.2	3337.4	9879.0	3479.5	1250.1	866.0	768.3	781.6
75°	490.7	486.3	604.0	739.4	1183.5	3333.0	1241.3	739.4	601.8	548.5	552.9
77.5°	353.1	364.2	433.0	552.9	746.1	1130.2	732.8	528.5	433.0	355.3	361.9
80°	264.2	270.9	315.3	430.8	524.0	703.9	466.3	390.8	326.4	222.0	228.7
82.5°	191.0	191.0	206.5	313.1	319.8	379.7	253.1	275.3	215.4	157.7	157.7
85°	113.2	111.0	128.8	186.5	166.5	139.9	115.5	168.8	135.5	97.7	95.5
87.5°	40.0	42.2	40.0	53.3	44.4	37.7	35.5	46.6	37.7	33.3	31.1
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)