

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: P942990

Luminaire Tested: **GALN-SB7B-735-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942990  
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-SB7B-735-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

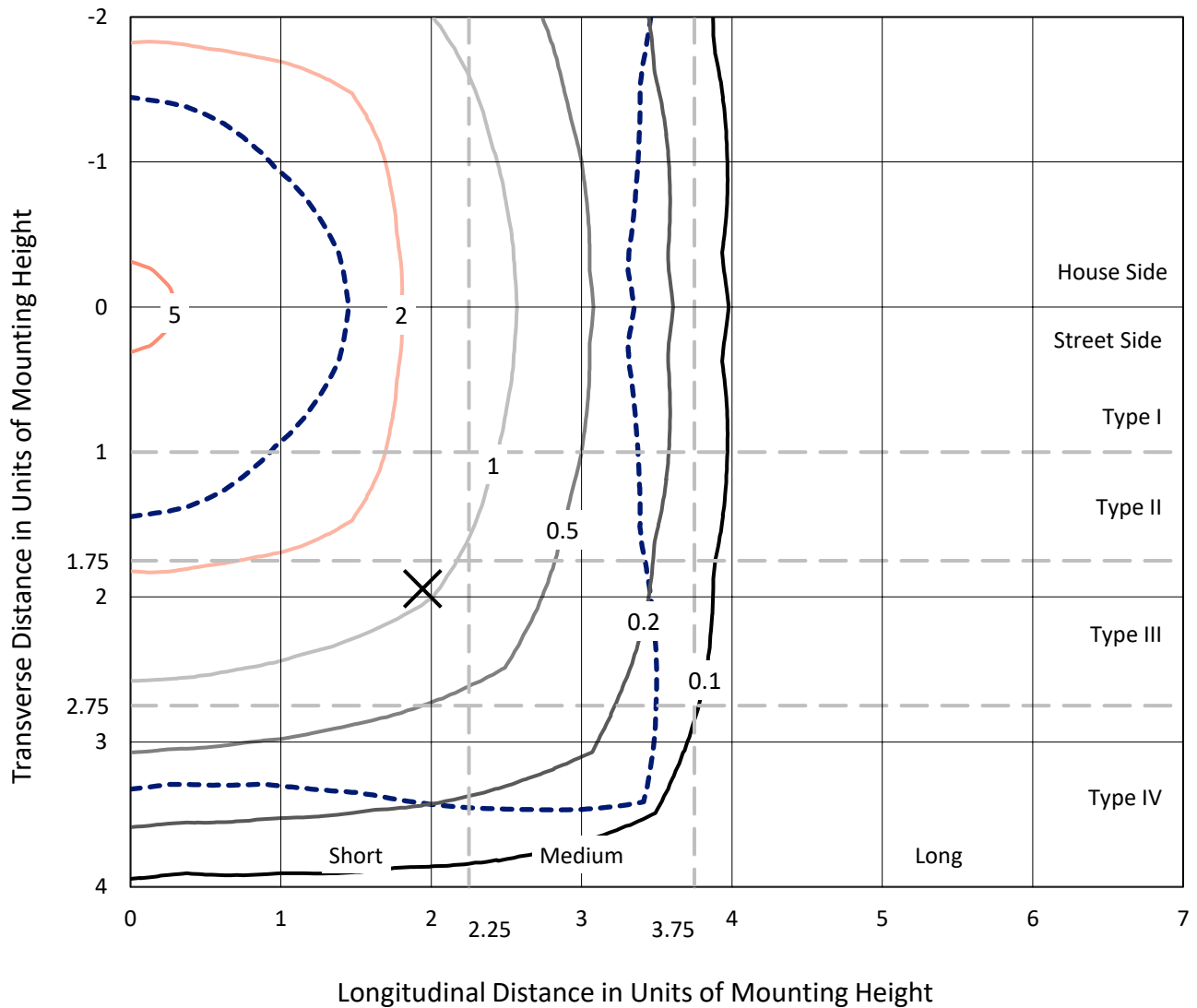
Lumens per Lamp: N/A  
Luminaire Lumens: 40507 lumens  
Efficiency: N/A  
Efficacy: 157.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

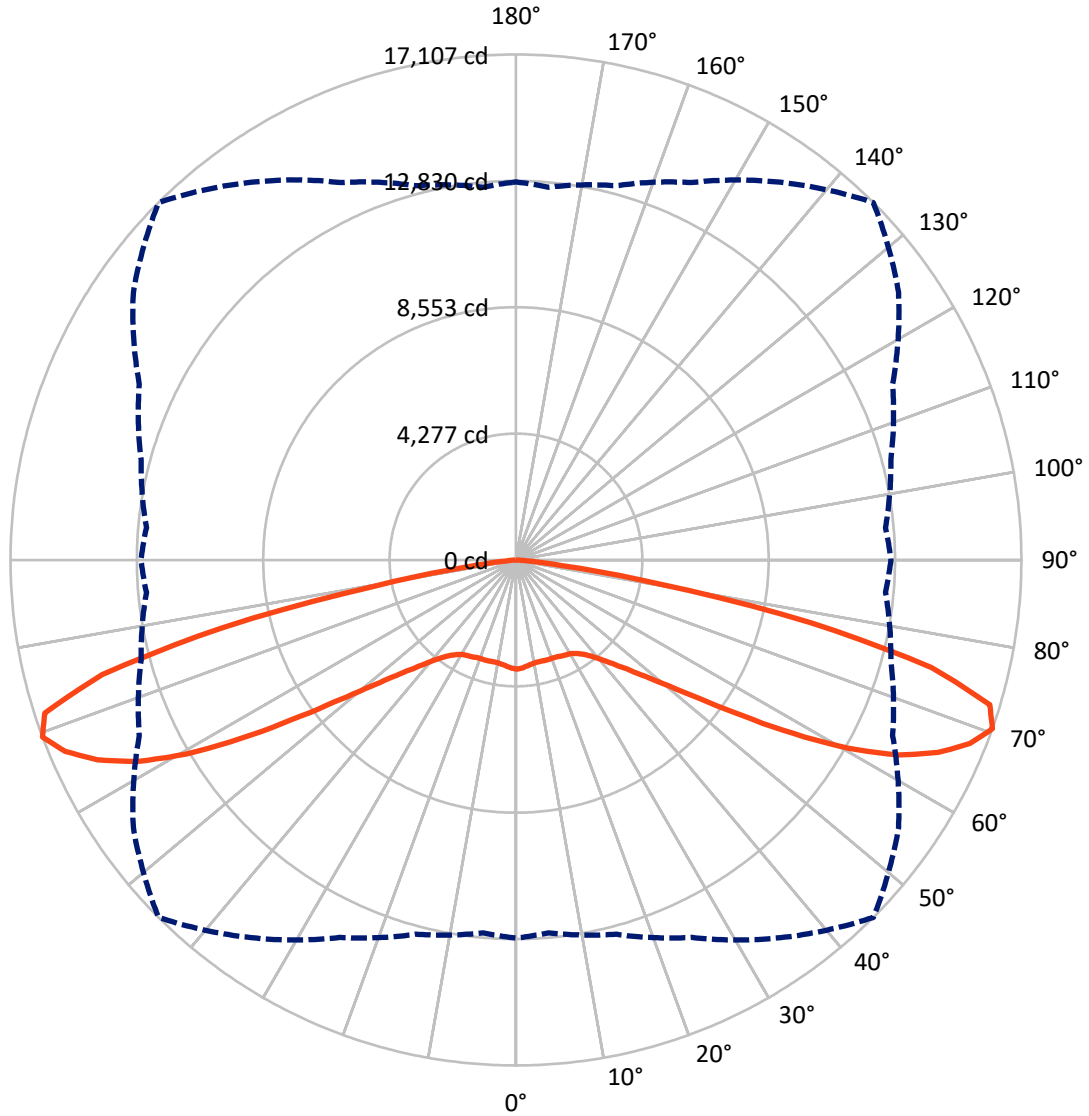
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20253.5	0.0	20253.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	20253.5	0.0	20253.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	40507.0	0.0	40507.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	343.7	0.8
10°-20°	1009.3	2.5
20°-30°	1679.6	4.1
30°-40°	2540.0	6.3
40°-50°	4220.9	10.4
50°-60°	7964.7	19.7
60°-70°	13448.7	33.2
70°-80°	8837.2	21.8
80°-90°	463.0	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°	40507.0	100.0
0°-180°	40507.0	100.0

**Coefficient of Utilization**



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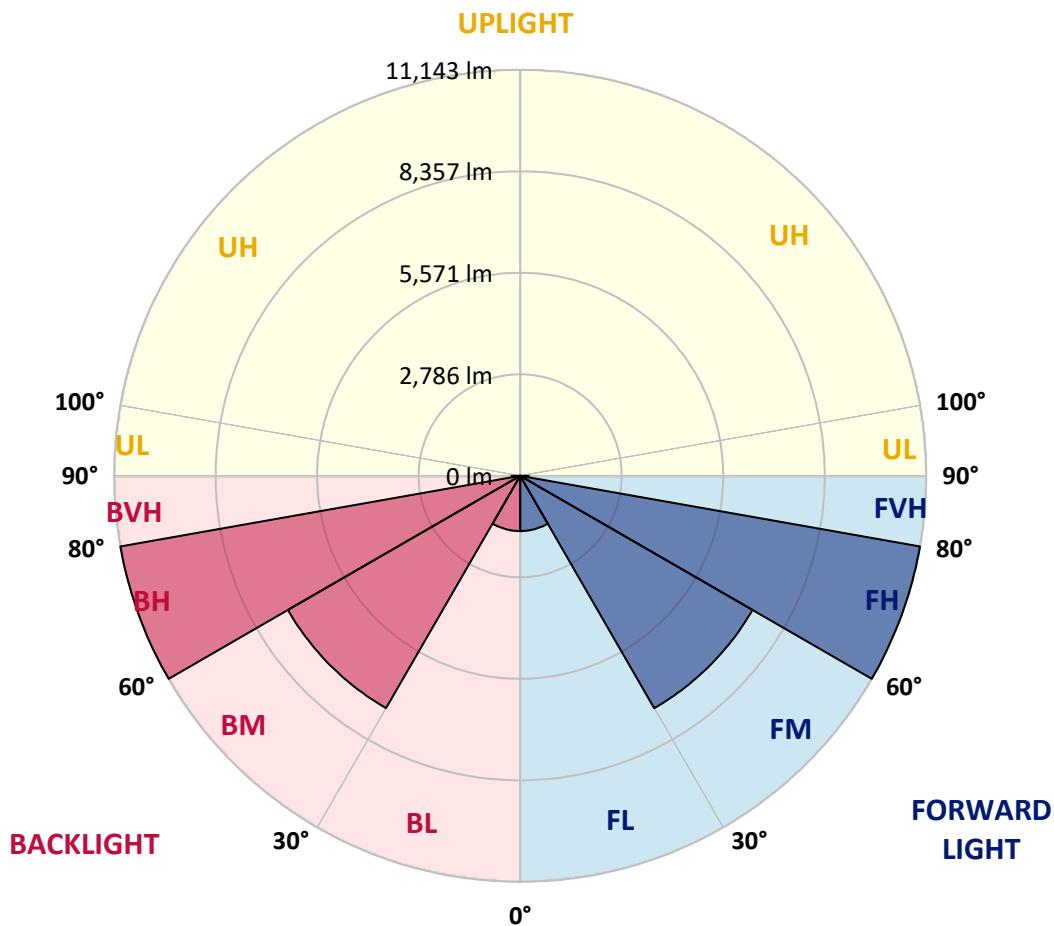
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1516.3	3.7			
FM (30°-60°)	7362.8	18.2			
FH (60°-80°)	11142.9	27.5			G4/12000
FVH (80°-90°)	231.5	0.6			G3/500
BL (0°-30°)	1516.3	3.7	B3/2500		
BM (30°-60°)	7362.8	18.2	B4/8500		
BH (60°-80°)	11142.9	27.5	B5		G4/12000
BVH (80°-90°)	231.5	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-G4**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3695.1	3695.1	3695.1	3695.1	3695.1	3695.1	3695.1	3695.1	3695.1	3695.1
2.5°	3671.9	3682.4	3678.2	3669.8	3669.8	3663.5	3669.8	3674.0	3680.3	3684.5
5°	3623.5	3631.9	3629.8	3623.5	3625.6	3619.3	3623.5	3629.8	3634.0	3636.1
7.5°	3581.4	3589.8	3585.6	3575.0	3575.0	3568.7	3570.8	3577.1	3583.5	3585.6
10°	3570.8	3579.3	3566.6	3549.8	3543.5	3535.0	3537.1	3543.5	3556.1	3562.4
12.5°	3575.0	3581.4	3568.7	3543.5	3537.1	3528.7	3528.7	3535.0	3551.9	3560.3
15°	3587.7	3594.0	3575.0	3547.7	3541.4	3535.0	3532.9	3541.4	3560.3	3575.0
17.5°	3610.8	3617.2	3587.7	3549.8	3541.4	3543.5	3541.4	3547.7	3577.1	3604.5
20°	3631.9	3636.1	3596.1	3549.8	3541.4	3543.5	3541.4	3554.0	3591.9	3629.8
22.5°	3638.2	3642.4	3604.5	3564.5	3558.2	3560.3	3558.2	3570.8	3606.6	3644.5
25°	3640.3	3646.6	3617.2	3585.6	3596.1	3600.3	3596.1	3598.2	3625.6	3659.3
27.5°	3671.9	3680.3	3652.9	3625.6	3631.9	3629.8	3636.1	3642.4	3663.5	3697.2
30°	3737.2	3743.5	3720.3	3692.9	3688.7	3674.0	3692.9	3714.0	3737.2	3766.6
32.5°	3844.5	3857.2	3827.7	3798.2	3779.3	3770.8	3785.6	3821.4	3853.0	3884.5
35°	4023.5	4031.9	4004.6	3949.8	3916.1	3916.1	3928.8	3975.1	4025.6	4065.6
37.5°	4276.2	4286.7	4238.3	4173.0	4122.5	4122.5	4139.3	4187.7	4263.5	4320.4
40°	4583.6	4598.3	4537.2	4469.9	4421.4	4413.0	4434.1	4488.8	4560.4	4632.0
42.5°	4954.1	4971.0	4890.9	4832.0	4794.1	4794.1	4804.6	4855.2	4920.4	5008.9
45°	5427.8	5457.3	5347.8	5288.9	5253.1	5261.5	5267.8	5312.0	5371.0	5472.0
47.5°	5992.1	6021.6	5905.8	5844.7	5838.4	5878.4	5853.1	5884.7	5916.3	6032.1
50°	6632.1	6682.7	6602.7	6598.5	6611.1	6684.8	6625.8	6642.7	6606.9	6680.6
52.5°	7415.4	7489.1	7474.3	7499.6	7640.7	7792.2	7657.5	7598.5	7463.8	7487.0
55°	8364.9	8476.5	8497.6	8649.2	8969.2	9278.7	8992.4	8754.4	8468.1	8415.5
57.5°	9445.0	9533.4	9634.5	9944.0	10542.0	11091.5	10542.0	10015.6	9565.0	9457.7
60°	10607.2	10716.7	10813.6	11270.4	12158.9	12931.6	12142.1	11306.2	10710.4	10565.1
62.5°	11855.8	11996.8	12064.2	12571.6	13607.5	14529.7	13622.2	12609.5	11948.4	11792.6
65°	13053.8	13169.6	13245.3	13786.4	14776.0	15700.3	14843.4	13845.4	13165.3	12961.1
67.5°	13611.7	13674.9	13860.1	14472.8	15517.1	16571.9	15694.0	14538.1	13778.0	13420.1
70°	12794.8	12666.4	13112.7	14093.8	15605.5	17106.7	15807.7	14064.4	13133.8	12552.7
72.5°	9887.2	9666.1	10440.9	12118.9	14594.9	16765.6	14696.0	12213.7	10923.0	9744.0
75°	5379.4	5128.9	6198.4	8320.7	11638.9	14531.8	11906.3	8558.6	6901.6	5339.4
77.5°	1518.0	1423.3	2286.5	4025.6	7000.6	10203.0	7270.1	4114.0	2711.8	1608.6
80°	465.3	450.6	610.6	1212.7	2972.9	4886.7	2857.1	1227.5	776.9	490.6
82.5°	275.8	252.7	303.2	442.1	758.0	1534.9	736.9	461.1	370.6	248.4
85°	157.9	147.4	179.0	214.8	254.8	326.3	212.6	219.0	197.9	132.6
87.5°	65.3	59.0	69.5	67.4	59.0	75.8	56.8	67.4	80.0	52.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3695.1
3682.4
3636.1
3585.6
3562.4
3562.4
3577.1
3604.5
3631.9
3644.5
3657.2
3688.7
3760.3
3871.9
4050.9
4299.3
4608.8
5002.5
5467.8
5998.4
6636.4
7409.1
8333.3
9381.9
10438.8
11666.3
12860.1
13424.3
12691.6
10036.7
5686.8
1787.5
517.9
269.5
139.0
48.4
0.0

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