

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: P953461

Luminaire Tested: **GALN-SB7A-735-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953461
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-735-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33409 lumens
Efficiency: N/A
Efficacy: 167.8 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

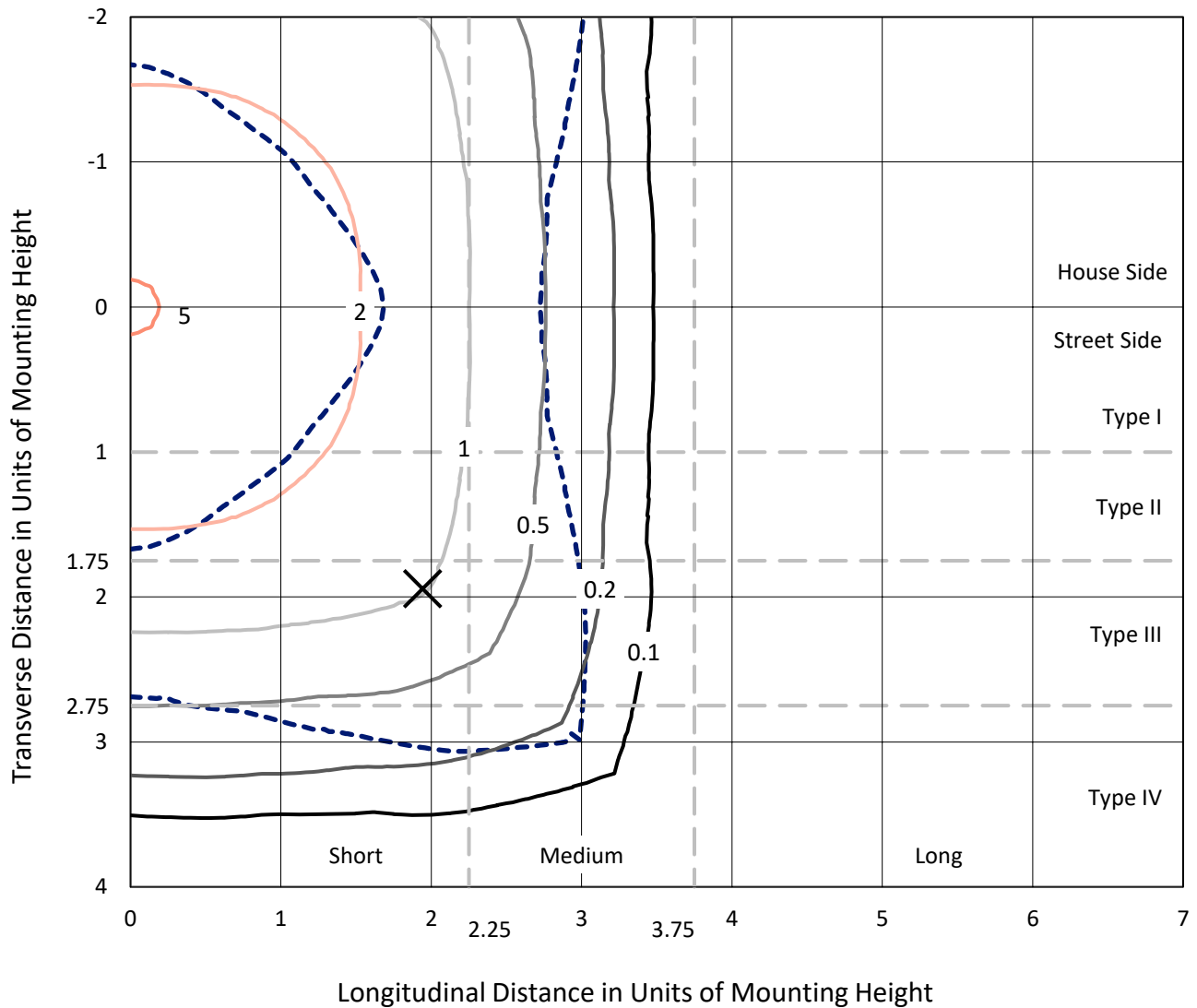
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

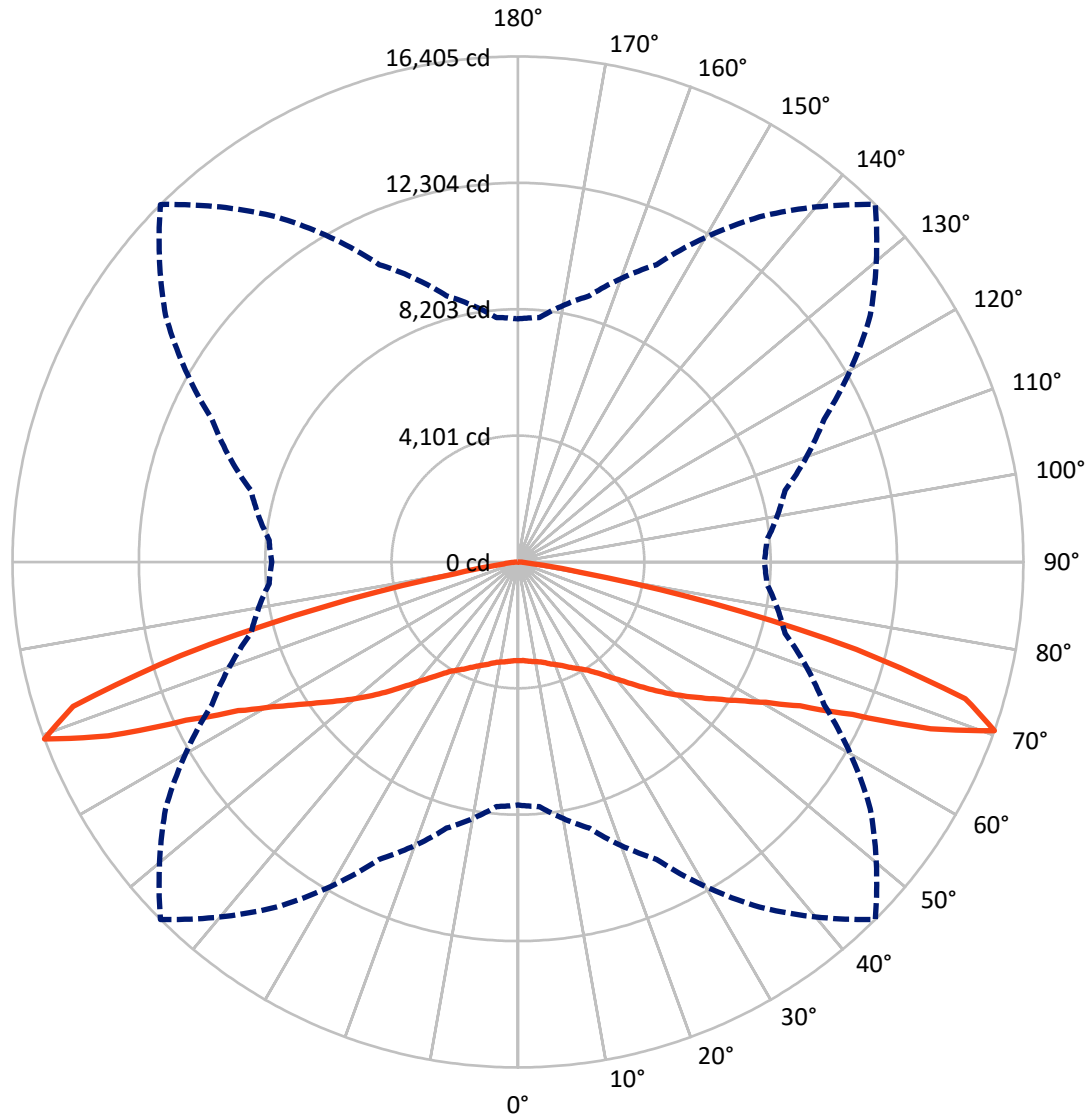
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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
House Side	Lumens	16704.5	0.0	16704.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16704.5	0.0	16704.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	33409.0	0.0	33409.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.9	0.9
10°-20°	964.1	2.9
20°-30°	1722.9	5.2
30°-40°	2792.8	8.4
40°-50°	4549.1	13.6
50°-60°	6935.8	20.8
60°-70°	10318.2	30.9
70°-80°	5623.8	16.8
80°-90°	191.5	0.6
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°	33409.0	100.0
0°-180°	33409.0	100.0

Coefficient of Utilization



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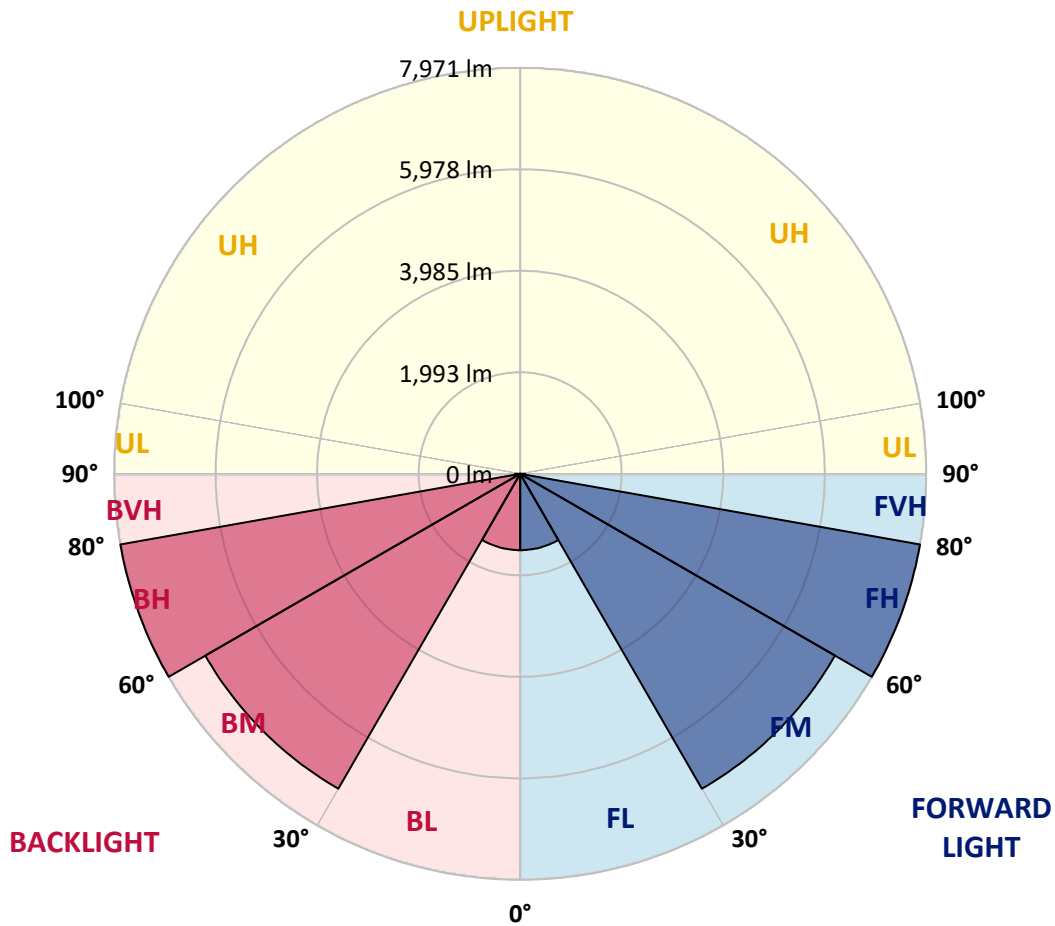
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1498.9	4.5			
FM (30°-60°)	7138.8	21.4			
FH (60°-80°)	7971.0	23.9			G4/12000
FVH (80°-90°)	95.8	0.3			G1/100
BL (0°-30°)	1498.9	4.5	B3/2500		
BM (30°-60°)	7138.8	21.4	B4/8500		
BH (60°-80°)	7971.0	23.9	B5		G4/12000
BVH (80°-90°)	95.8	0.3			G1/100
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°	3200.2	3200.2	3200.2	3200.2	3200.2	3200.2	3200.2	3200.2	3200.2	3200.2
2.5°	3215.3	3218.7	3212.0	3208.6	3205.3	3200.2	3201.9	3210.3	3217.0	3215.3
5°	3242.2	3245.5	3240.5	3238.8	3232.1	3230.4	3230.4	3238.8	3243.8	3240.5
7.5°	3272.4	3277.4	3269.0	3267.3	3264.0	3260.6	3258.9	3267.3	3272.4	3272.4
10°	3300.9	3305.9	3299.2	3294.2	3290.8	3290.8	3287.5	3294.2	3302.6	3300.9
12.5°	3331.1	3334.4	3327.7	3324.4	3324.4	3329.4	3324.4	3327.7	3334.4	3331.1
15°	3368.0	3369.6	3368.0	3373.0	3381.4	3398.2	3383.1	3379.7	3383.1	3374.7
17.5°	3418.3	3421.6	3428.3	3440.1	3451.8	3482.0	3455.2	3446.8	3446.8	3430.0
20°	3480.3	3485.4	3495.4	3515.6	3530.7	3559.2	3532.3	3520.6	3515.6	3493.8
22.5°	3545.8	3554.1	3569.2	3596.1	3622.9	3649.7	3622.9	3602.8	3587.7	3559.2
25°	3621.2	3631.3	3654.8	3698.4	3735.3	3773.9	3742.0	3701.7	3671.6	3631.3
27.5°	3728.6	3740.3	3768.8	3822.5	3869.5	3903.0	3872.8	3820.8	3778.9	3730.3
30°	3879.5	3891.3	3924.8	3981.8	4013.7	4035.5	4015.4	3975.1	3924.8	3869.5
32.5°	4074.1	4089.2	4126.1	4179.8	4186.5	4189.8	4183.1	4163.0	4126.1	4059.0
35°	4320.7	4337.4	4379.4	4423.0	4416.3	4423.0	4412.9	4406.2	4379.4	4302.2
37.5°	4622.6	4642.7	4686.3	4719.8	4703.1	4694.7	4696.4	4698.0	4682.9	4597.4
40°	4973.1	5000.0	5031.8	5067.0	5038.5	5013.4	5030.1	5043.6	5030.1	4942.9
42.5°	5333.7	5372.3	5405.9	5456.2	5432.7	5400.8	5424.3	5439.4	5410.9	5317.0
45°	5734.6	5771.5	5815.1	5890.6	5873.8	5840.3	5873.8	5877.2	5828.5	5717.8
47.5°	6148.9	6187.5	6252.9	6353.5	6346.8	6309.9	6353.5	6330.0	6268.0	6135.5
50°	6541.4	6595.0	6695.7	6836.6	6850.0	6804.7	6863.4	6818.1	6714.1	6548.1
52.5°	6910.4	6967.4	7126.7	7317.9	7366.6	7307.9	7386.7	7307.9	7151.9	6938.9
55°	7297.8	7361.6	7551.1	7801.0	7898.3	7854.7	7928.5	7809.4	7588.0	7329.7
57.5°	7754.0	7792.6	8019.0	8315.9	8480.3	8490.4	8523.9	8322.6	8054.3	7760.7
60°	8248.8	8302.5	8549.1	8904.6	9164.6	9248.5	9213.3	8914.7	8602.7	8265.6
62.5°	8882.8	8941.5	9236.7	9662.8	10073.7	10281.7	10144.1	9711.4	9325.6	8921.4
65°	9407.8	9473.2	10006.6	10766.4	11514.5	11932.1	11586.6	10789.9	10095.5	9525.2
67.5°	9027.1	9107.6	9944.6	11340.0	13200.1	14446.4	13263.9	11511.1	10150.9	9377.6
70°	7889.9	7965.4	8941.5	10647.3	13674.8	16405.4	13959.9	10961.0	8973.4	8107.9
72.5°	5238.1	5481.3	6469.2	8515.5	12210.5	15181.0	12331.3	8342.8	6001.3	5226.4
75°	1737.7	1932.2	2606.5	4414.6	8178.4	11353.5	7785.9	3906.4	2064.7	1486.1
77.5°	437.8	504.9	696.1	1263.0	3262.3	6464.2	2936.9	1031.5	561.9	392.5
80°	213.0	234.8	335.5	421.0	816.8	2054.7	766.5	395.8	265.0	204.6
82.5°	117.4	119.1	189.5	238.2	303.6	531.7	315.3	231.5	152.6	124.1
85°	72.1	70.4	100.6	127.5	127.5	189.5	151.0	127.5	87.2	77.2
87.5°	28.5	28.5	36.9	40.3	35.2	48.6	38.6	41.9	33.5	31.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3200.2
3217.0
3242.2
3272.4
3300.9
3329.4
3374.7
3430.0
3493.8
3557.5
3629.6
3728.6
3869.5
4060.7
4302.2
4597.4
4942.9
5323.7
5729.6
6127.1
6544.7
6918.8
7294.5
7720.5
8211.9
8851.0
9431.3
9261.9
7992.2
5057.0
1405.6
350.6
187.9
124.1
80.5
33.5
0.0

OF REPORT)