

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: P953629

Luminaire Tested: **GALN-SB7A-850-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953629
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-850-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31956 lumens
Efficiency: N/A
Efficacy: 160.5 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

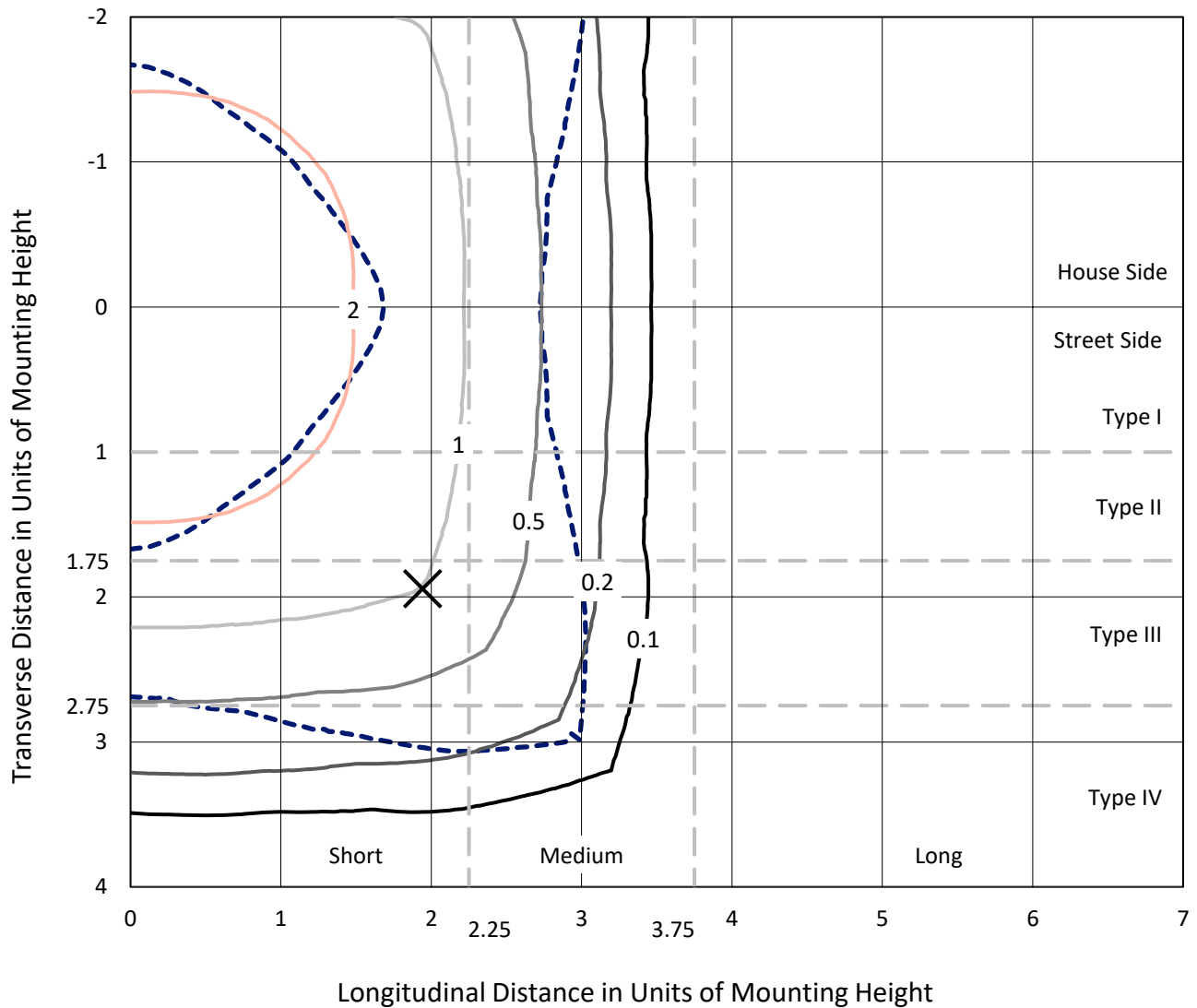
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

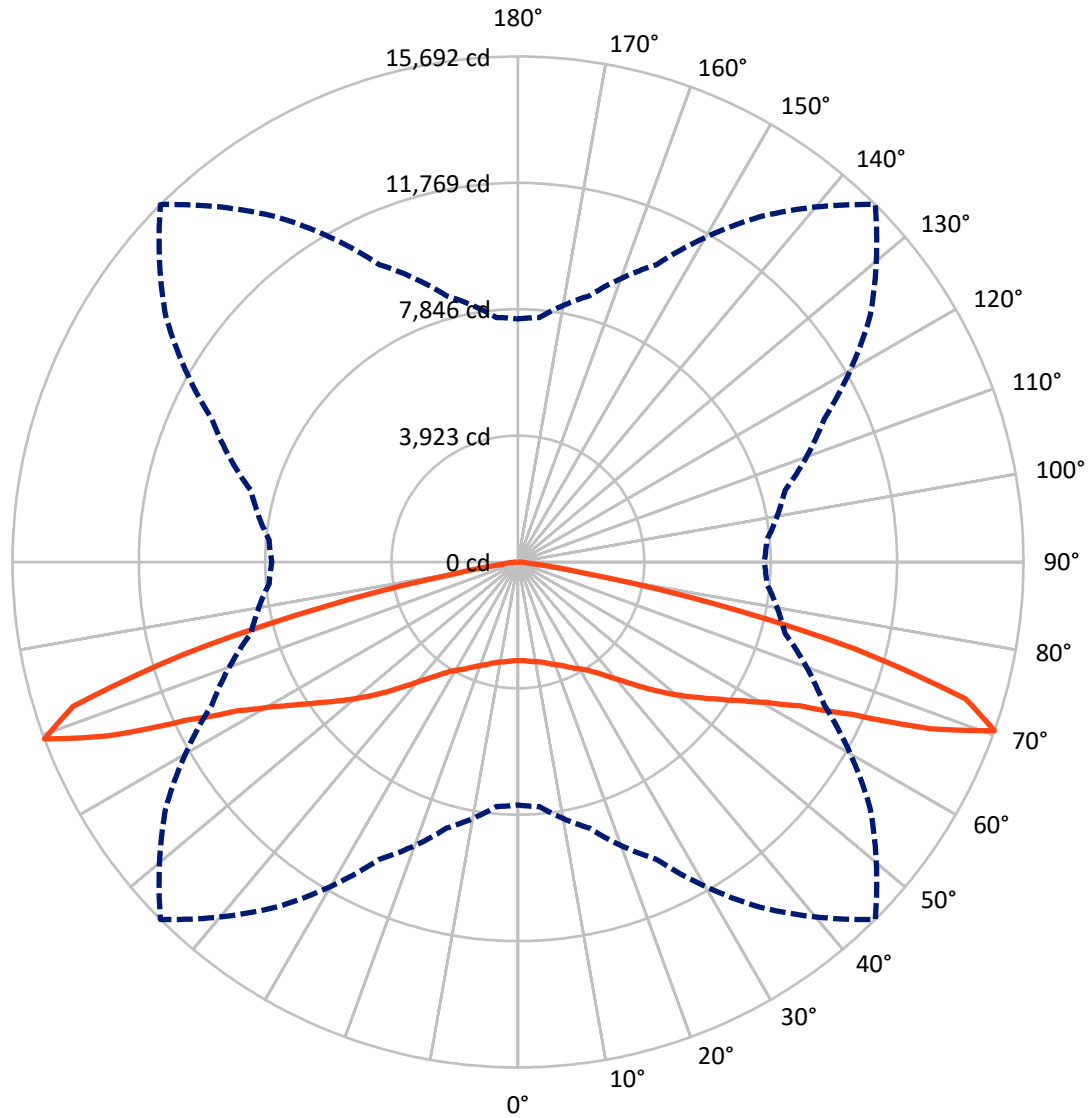
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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
House Side	Lumens	15978.0	0.0	15978.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15978.0	0.0	15978.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	31956.0	0.0	31956.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.4	0.9
10°-20°	922.1	2.9
20°-30°	1648.0	5.2
30°-40°	2671.4	8.4
40°-50°	4351.2	13.6
50°-60°	6634.1	20.8
60°-70°	9869.5	30.9
70°-80°	5379.2	16.8
80°-90°	183.2	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°	31956.0	100.0
0°-180°	31956.0	100.0

Coefficient of Utilization



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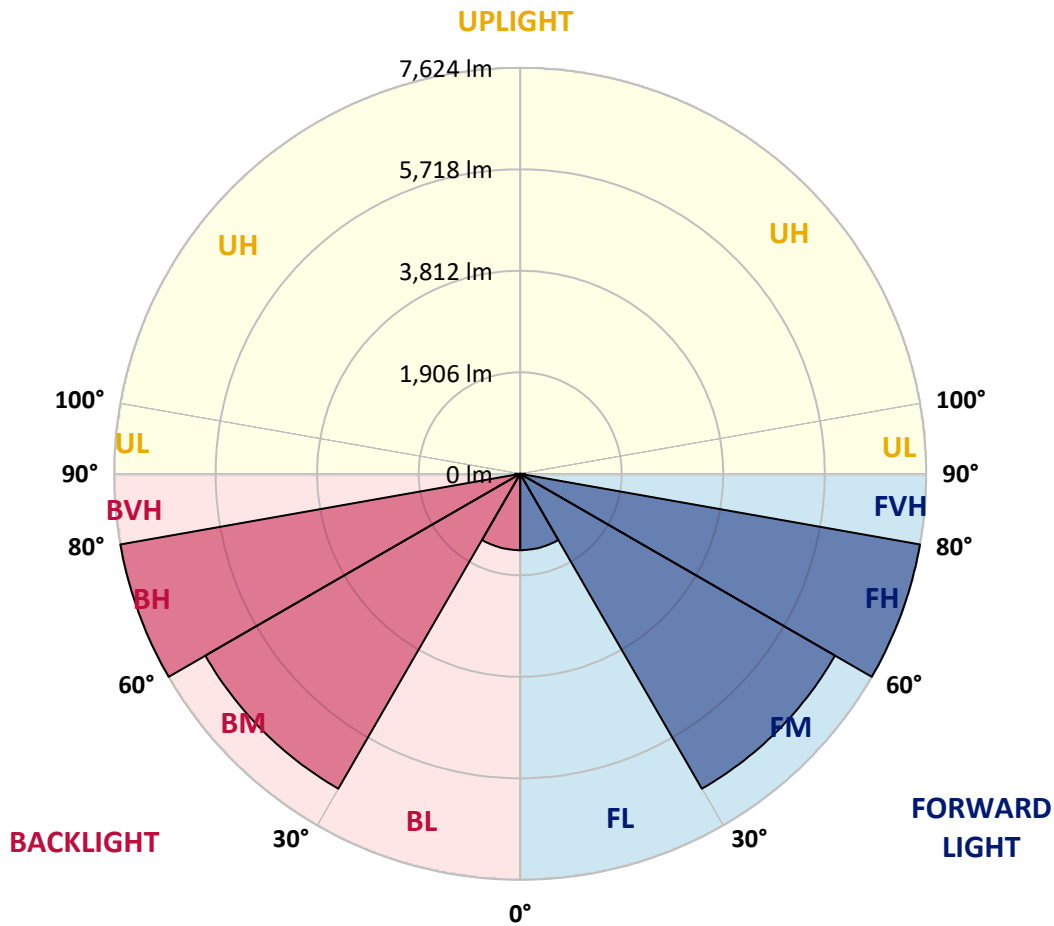
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1433.8	4.5			
FM (30°-60°)	6828.3	21.4			
FH (60°-80°)	7624.3	23.9			G4/12000
FVH (80°-90°)	91.6	0.3			G1/100
BL (0°-30°)	1433.8	4.5	B3/2500		
BM (30°-60°)	6828.3	21.4	B4/8500		
BH (60°-80°)	7624.3	23.9	B5		G4/12000
BVH (80°-90°)	91.6	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°	3061.1	3061.1	3061.1	3061.1	3061.1	3061.1	3061.1	3061.1	3061.1	3061.1
2.5°	3075.5	3078.7	3072.3	3069.1	3065.9	3061.1	3062.7	3070.7	3077.1	3075.5
5°	3101.2	3104.4	3099.6	3098.0	3091.5	3089.9	3089.9	3098.0	3102.8	3099.6
7.5°	3130.0	3134.9	3126.8	3125.2	3122.0	3118.8	3117.2	3125.2	3130.0	3130.0
10°	3157.3	3162.1	3155.7	3150.9	3147.7	3147.7	3144.5	3150.9	3158.9	3157.3
12.5°	3186.2	3189.4	3183.0	3179.8	3179.8	3184.6	3179.8	3183.0	3189.4	3186.2
15°	3221.5	3223.1	3221.5	3226.3	3234.3	3250.4	3235.9	3232.7	3235.9	3227.9
17.5°	3269.6	3272.8	3279.2	3290.5	3301.7	3330.6	3304.9	3296.9	3296.9	3280.8
20°	3329.0	3333.8	3343.4	3362.7	3377.1	3404.4	3378.7	3367.5	3362.7	3341.8
22.5°	3391.5	3399.6	3414.0	3439.7	3465.3	3491.0	3465.3	3446.1	3431.7	3404.4
25°	3463.7	3473.4	3495.8	3537.5	3572.8	3609.7	3579.3	3540.7	3511.9	3473.4
27.5°	3566.4	3577.6	3604.9	3656.3	3701.2	3733.3	3704.4	3654.7	3614.5	3568.0
30°	3710.8	3722.0	3754.1	3808.7	3839.2	3860.0	3840.8	3802.3	3754.1	3701.2
32.5°	3896.9	3911.3	3946.6	3998.0	4004.4	4007.6	4001.2	3981.9	3946.6	3882.5
35°	4132.7	4148.8	4188.9	4230.6	4224.2	4230.6	4221.0	4214.6	4188.9	4115.1
37.5°	4421.5	4440.8	4482.5	4514.6	4498.5	4490.5	4492.1	4493.7	4479.3	4397.5
40°	4756.8	4782.5	4813.0	4846.7	4819.4	4795.3	4811.4	4824.2	4811.4	4727.9
42.5°	5101.8	5138.7	5170.7	5218.9	5196.4	5165.9	5188.4	5202.8	5175.6	5085.7
45°	5485.2	5520.5	5562.2	5634.4	5618.3	5586.3	5618.3	5621.6	5575.0	5469.1
47.5°	5881.5	5918.4	5980.9	6077.2	6070.8	6035.5	6077.2	6054.7	5995.4	5868.6
50°	6256.9	6308.2	6404.5	6539.2	6552.1	6508.8	6564.9	6521.6	6422.1	6263.3
52.5°	6609.8	6664.4	6816.8	6999.7	7046.2	6990.0	7065.5	6990.0	6840.8	6637.1
55°	6980.4	7041.4	7222.7	7461.7	7554.8	7513.1	7583.6	7469.7	7258.0	7010.9
57.5°	7416.8	7453.7	7670.3	7954.2	8111.5	8121.1	8153.2	7960.7	7704.0	7423.2
60°	7890.1	7941.4	8177.2	8517.4	8766.0	8846.3	8812.6	8527.0	8228.6	7906.1
62.5°	8496.5	8552.7	8835.0	9242.5	9635.6	9834.5	9703.0	9289.0	8920.1	8533.4
65°	8998.7	9061.2	9571.4	10298.2	11013.7	11413.2	11082.7	10320.6	9656.4	9111.0
67.5°	8634.5	8711.5	9512.0	10846.8	12626.0	13818.1	12687.0	11010.5	9709.4	8969.8
70°	7546.7	7618.9	8552.7	10184.3	13080.1	15691.9	13352.8	10484.3	8583.1	7755.3
72.5°	5010.3	5242.9	6187.9	8145.2	11679.5	14520.8	11795.0	7979.9	5740.3	4999.1
75°	1662.1	1848.2	2493.1	4222.6	7822.7	10859.7	7447.3	3736.5	1974.9	1421.4
77.5°	418.7	482.9	665.8	1208.1	3120.4	6183.1	2809.2	986.7	537.4	375.4
80°	203.7	224.6	320.9	402.7	781.3	1965.3	733.2	378.6	253.5	195.7
82.5°	112.3	113.9	181.3	227.8	290.4	508.6	301.6	221.4	146.0	118.7
85°	69.0	67.4	96.3	121.9	121.9	181.3	144.4	121.9	83.4	73.8
87.5°	27.3	27.3	35.3	38.5	33.7	46.5	36.9	40.1	32.1	30.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3061.1
3077.1
3101.2
3130.0
3157.3
3184.6
3227.9
3280.8
3341.8
3402.8
3471.8
3566.4
3701.2
3884.1
4115.1
4397.5
4727.9
5092.1
5480.4
5860.6
6260.1
6617.8
6977.2
7384.7
7854.8
8466.0
9021.1
8859.1
7644.6
4837.0
1344.4
335.3
179.7
118.7
77.0
32.1
0.0

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