

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: P943790

Luminaire Tested: **GALN-SB8B-940-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943790
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-SB8B-940-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33375 lumens
Efficiency: N/A
Efficacy: 114.0 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

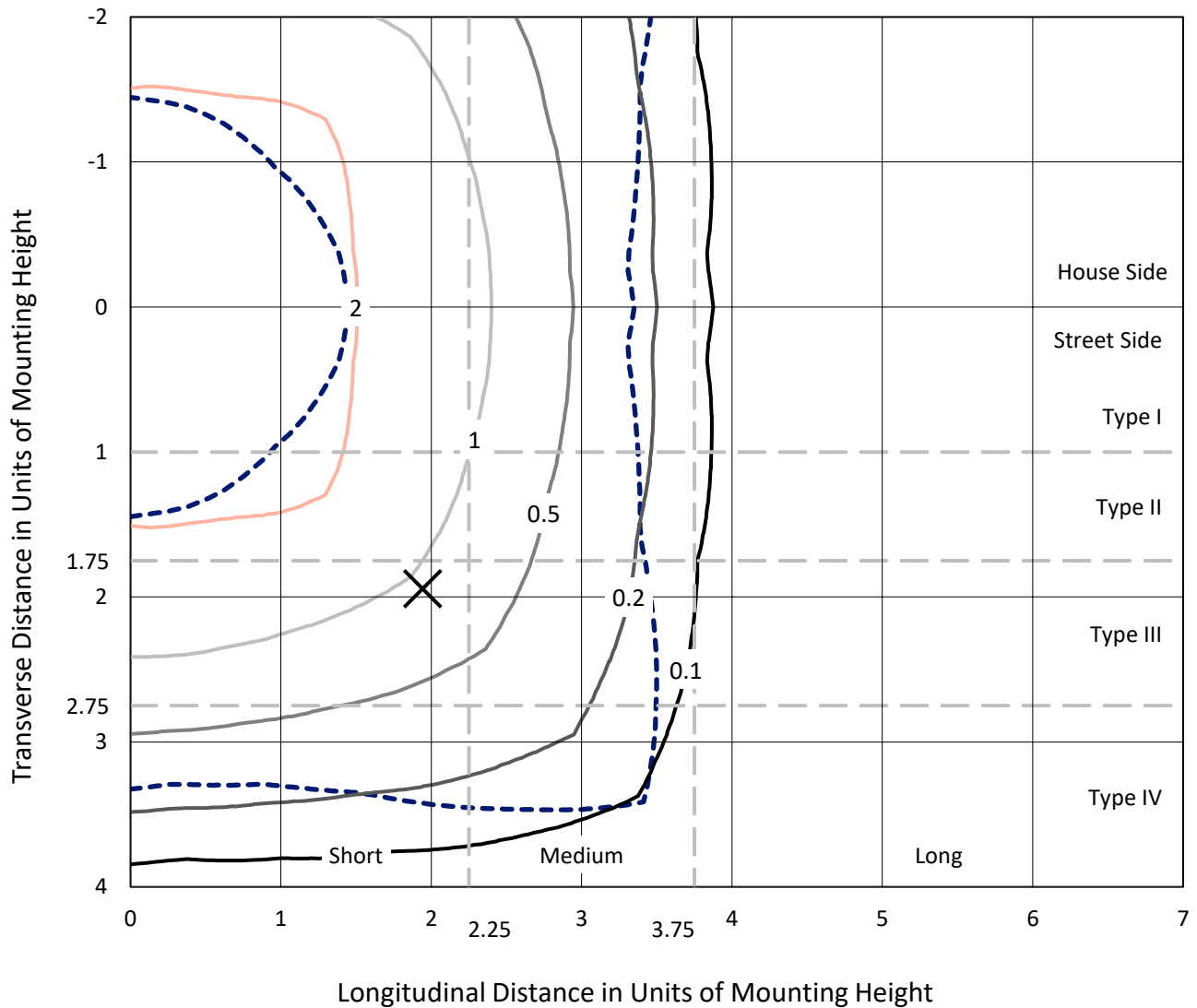
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

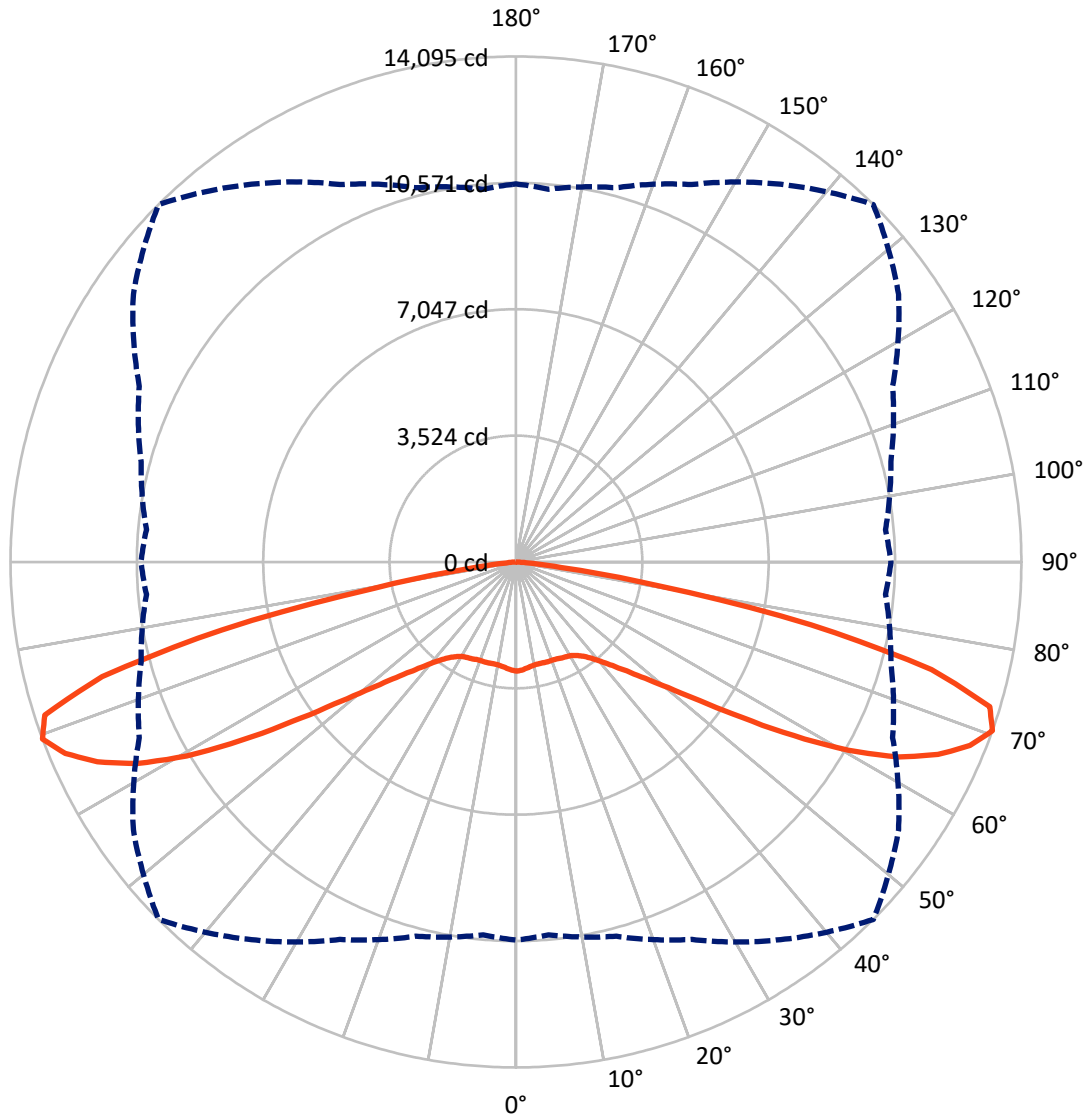
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	16687.5	0.0	16687.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16687.5	0.0	16687.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	33375.0	0.0	33375.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.2	0.8
10°-20°	831.6	2.5
20°-30°	1383.8	4.1
30°-40°	2092.8	6.3
40°-50°	3477.7	10.4
50°-60°	6562.4	19.7
60°-70°	11080.8	33.2
70°-80°	7281.2	21.8
80°-90°	381.5	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°	33375.0	100.0
0°-180°	33375.0	100.0

Coefficient of Utilization



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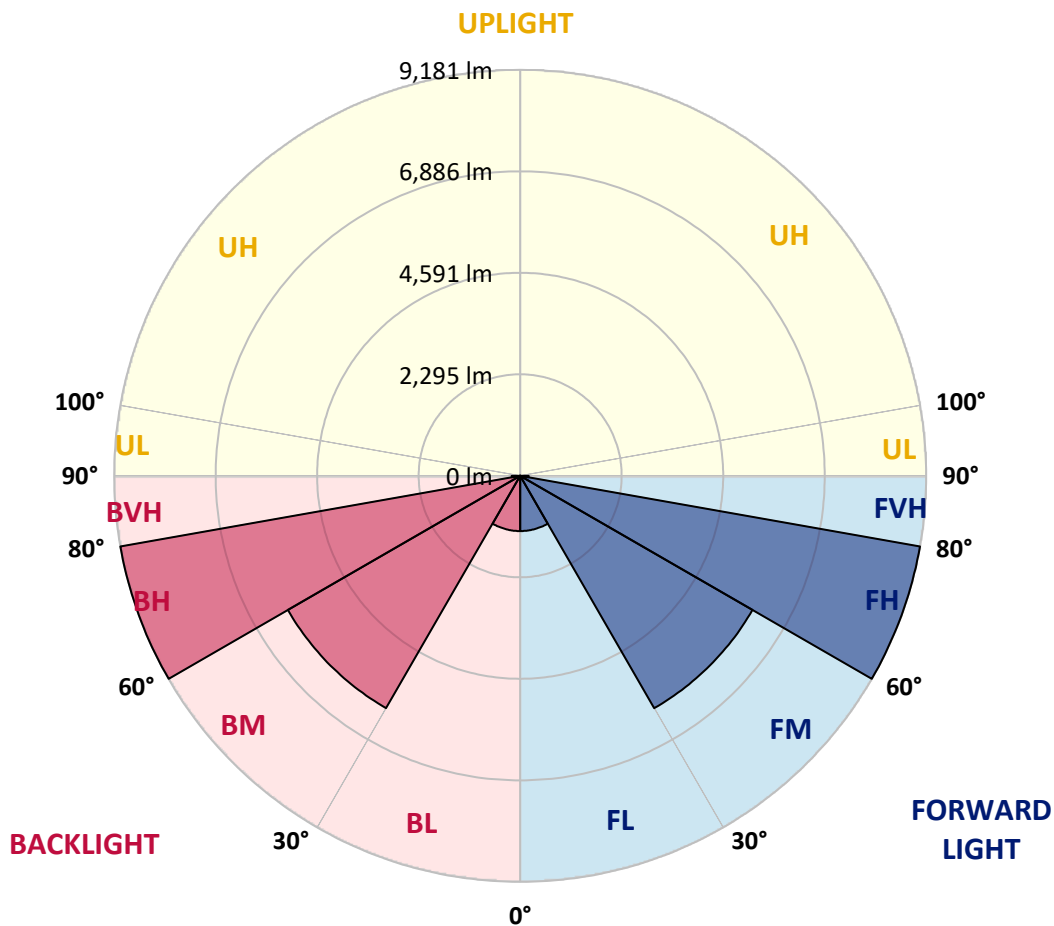
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1249.3	3.7			
FM (30°-60°)	6066.4	18.2			
FH (60°-80°)	9181.0	27.5			G4/12000
FVH (80°-90°)	190.7	0.6			G2/225
BL (0°-30°)	1249.3	3.7	B3/2500		
BM (30°-60°)	6066.4	18.2	B4/8500		
BH (60°-80°)	9181.0	27.5	B5		G4/12000
BVH (80°-90°)	190.7	0.6			G2/225
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°	3044.5	3044.5	3044.5	3044.5	3044.5	3044.5	3044.5	3044.5	3044.5	3044.5
2.5°	3025.4	3034.1	3030.6	3023.7	3023.7	3018.5	3023.7	3027.1	3032.3	3035.8
5°	2985.5	2992.4	2990.7	2985.5	2987.2	2982.0	2985.5	2990.7	2994.2	2995.9
7.5°	2950.8	2957.7	2954.3	2945.6	2945.6	2940.4	2942.1	2947.3	2952.5	2954.3
10°	2942.1	2949.1	2938.7	2924.8	2919.6	2912.6	2914.4	2919.6	2930.0	2935.2
12.5°	2945.6	2950.8	2940.4	2919.6	2914.4	2907.4	2907.4	2912.6	2926.5	2933.4
15°	2956.0	2961.2	2945.6	2923.0	2917.8	2912.6	2910.9	2917.8	2933.4	2945.6
17.5°	2975.1	2980.3	2956.0	2924.8	2917.8	2919.6	2917.8	2923.0	2947.3	2969.9
20°	2992.4	2995.9	2962.9	2924.8	2917.8	2919.6	2917.8	2928.2	2959.5	2990.7
22.5°	2997.6	3001.1	2969.9	2936.9	2931.7	2933.4	2931.7	2942.1	2971.6	3002.8
25°	2999.4	3004.6	2980.3	2954.3	2962.9	2966.4	2962.9	2964.7	2987.2	3015.0
27.5°	3025.4	3032.3	3009.8	2987.2	2992.4	2990.7	2995.9	3001.1	3018.5	3046.2
30°	3079.2	3084.4	3065.3	3042.7	3039.3	3027.1	3042.7	3060.1	3079.2	3103.5
32.5°	3167.6	3178.0	3153.8	3129.5	3113.9	3106.9	3119.1	3148.6	3174.6	3200.6
35°	3315.1	3322.0	3299.5	3254.4	3226.6	3226.6	3237.0	3275.2	3316.8	3349.8
37.5°	3523.3	3531.9	3492.0	3438.3	3396.6	3396.6	3410.5	3450.4	3512.9	3559.7
40°	3776.5	3788.7	3738.4	3682.9	3643.0	3636.0	3653.4	3698.5	3757.5	3816.4
42.5°	4081.8	4095.7	4029.8	3981.2	3950.0	3950.0	3958.7	4000.3	4054.1	4127.0
45°	4472.2	4496.5	4406.2	4357.7	4328.2	4335.1	4340.3	4376.8	4425.3	4508.6
47.5°	4937.1	4961.4	4866.0	4815.6	4810.4	4843.4	4822.6	4848.6	4874.6	4970.0
50°	5464.4	5506.1	5440.2	5436.7	5447.1	5507.8	5459.2	5473.1	5443.6	5504.3
52.5°	6109.8	6170.5	6158.3	6179.2	6295.4	6420.3	6309.3	6260.7	6149.7	6168.7
55°	6892.1	6984.1	7001.4	7126.3	7390.0	7645.0	7409.1	7213.1	6977.1	6933.8
57.5°	7782.1	7854.9	7938.2	8193.2	8685.9	9138.6	8685.9	8252.2	7880.9	7792.5
60°	8739.6	8829.8	8909.6	9286.1	10018.1	10654.8	10004.3	9315.6	8824.6	8704.9
62.5°	9768.3	9884.6	9940.1	10358.1	11211.6	11971.5	11223.8	10389.4	9844.7	9716.3
65°	10755.4	10850.8	10913.3	11359.1	12174.4	12936.0	12229.9	11407.7	10847.3	10679.1
67.5°	11215.1	11267.1	11419.8	11924.6	12785.0	13654.2	12930.8	11978.4	11352.2	11057.2
70°	10542.0	10436.2	10804.0	11612.4	12857.9	14094.8	13024.4	11588.1	10821.3	10342.5
72.5°	8146.3	7964.2	8602.6	9985.2	12025.2	13813.7	12108.5	10063.2	8999.8	8028.4
75°	4432.3	4225.8	5107.1	6855.7	9589.7	11973.2	9810.0	7051.7	5686.5	4399.3
77.5°	1250.7	1172.7	1883.9	3316.8	5768.0	8406.6	5990.1	3389.7	2234.3	1325.3
80°	383.4	371.2	503.1	999.2	2449.5	4026.3	2354.0	1011.4	640.1	404.2
82.5°	227.3	208.2	249.8	364.3	624.5	1264.6	607.2	379.9	305.3	204.7
85°	130.1	121.4	147.5	176.9	209.9	268.9	175.2	180.4	163.1	109.3
87.5°	53.8	48.6	57.2	55.5	48.6	62.5	46.8	55.5	65.9	43.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3044.5
3034.1
2995.9
2954.3
2935.2
2935.2
2947.3
2969.9
2992.4
3002.8
3013.2
3039.3
3098.2
3190.2
3337.6
3542.3
3797.3
4121.7
4505.1
4942.3
5467.9
6104.6
6866.1
7730.0
8600.9
9612.2
10595.8
11060.7
10457.0
8269.5
4685.5
1472.8
426.7
222.0
114.5
39.9
0.0

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