

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: P950501

Luminaire Tested: **GALN-SB4D-940-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950501
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-SB4D-940-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30968 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

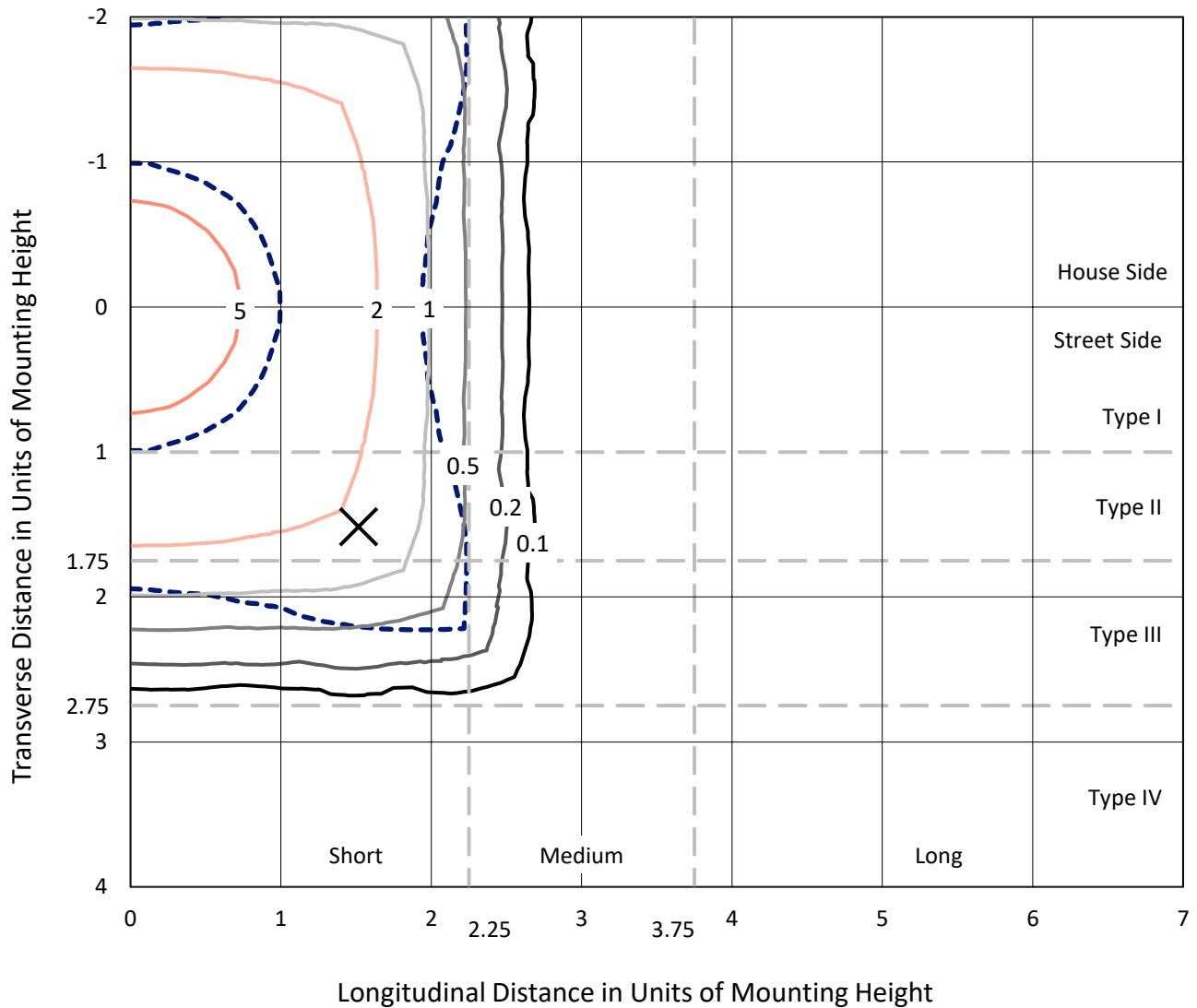
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

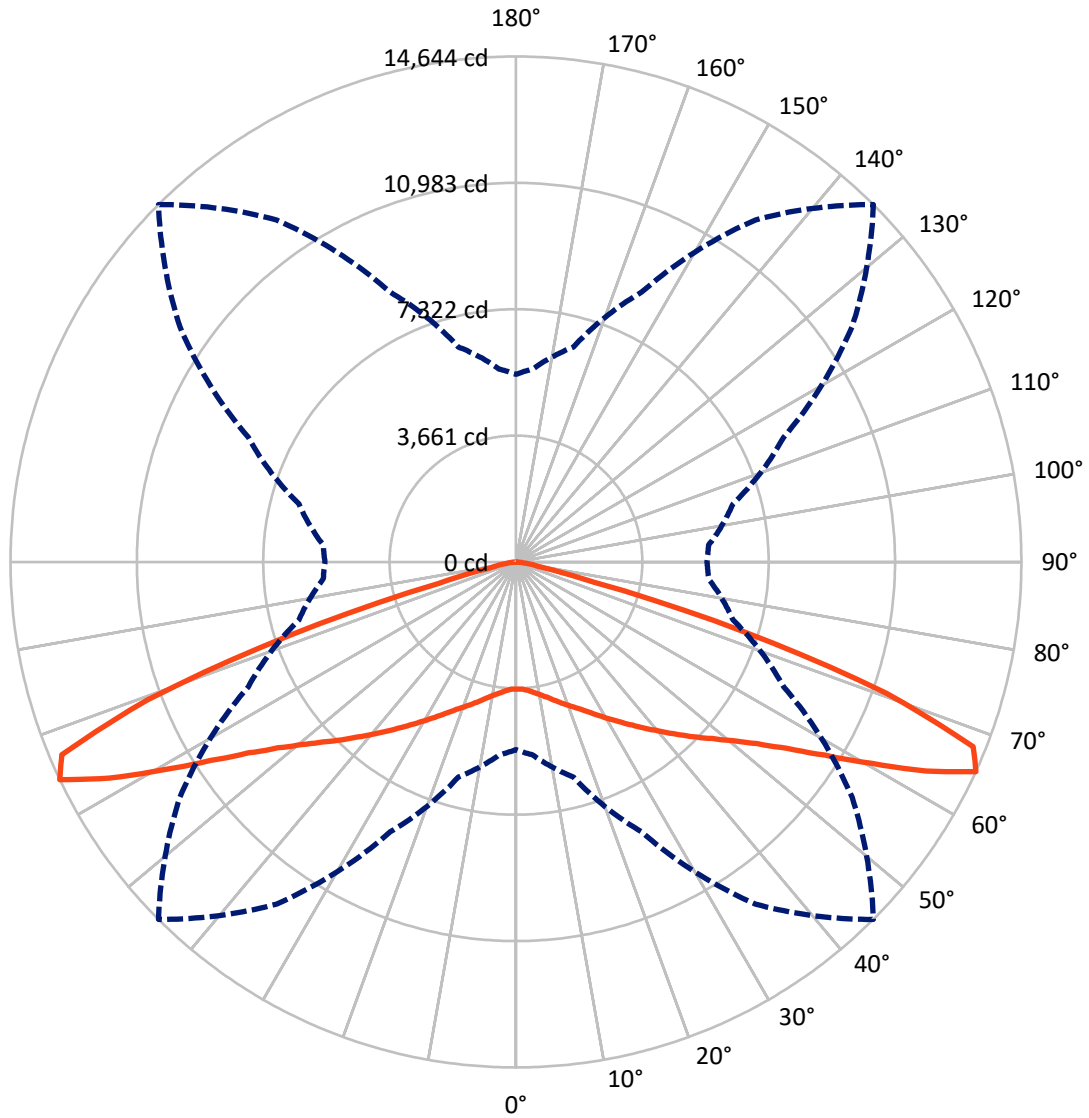
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15484.0	0.0	15484.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15484.0	0.0	15484.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	30968.0	0.0	30968.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.7	1.2
10°-20°	1186.9	3.8
20°-30°	2240.9	7.2
30°-40°	3669.4	11.8
40°-50°	5689.5	18.4
50°-60°	8404.6	27.1
60°-70°	8000.4	25.8
70°-80°	1291.0	4.2
80°-90°	121.7	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°	30968.0	100.0
0°-180°	30968.0	100.0



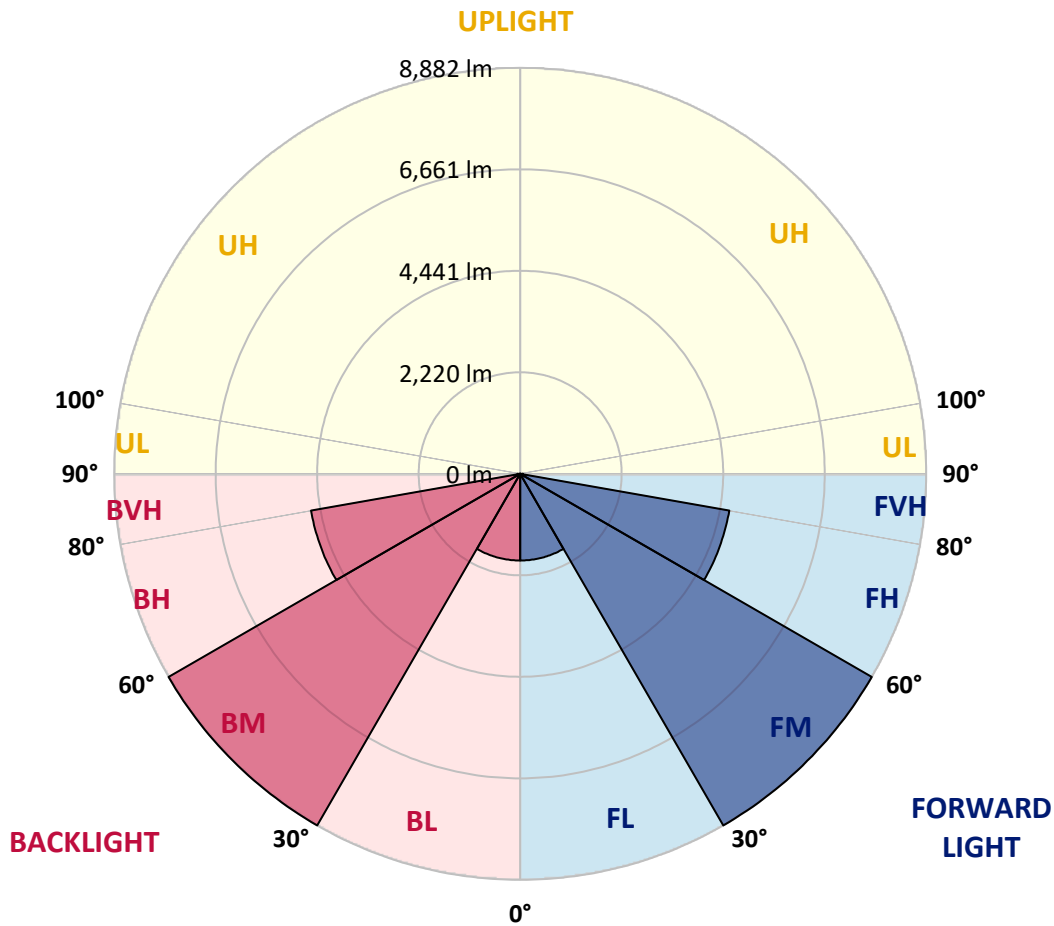
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1895.8	6.1			
FM (30°-60°)	8881.7	28.7			
FH (60°-80°)	4645.7	15.0			G2/5000
FVH (80°-90°)	60.8	0.2			G1/100
BL (0°-30°)	1895.8	6.1	B3/2500		
BM (30°-60°)	8881.7	28.7	B5		
BH (60°-80°)	4645.7	15.0	B4/5000		G2/5000
BVH (80°-90°)	60.8	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-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3685.5	3685.5	3685.5	3685.5	3685.5	3685.5	3685.5	3685.5	3685.5	3685.5
2.5°	3710.4	3697.9	3707.3	3699.5	3693.3	3687.1	3690.2	3701.0	3705.7	3707.3
5°	3760.1	3749.2	3753.9	3753.9	3743.0	3739.9	3741.4	3749.2	3758.5	3758.5
7.5°	3840.9	3830.0	3840.9	3834.7	3825.3	3822.2	3820.7	3826.9	3840.9	3840.9
10°	3938.8	3926.3	3932.5	3929.4	3918.6	3913.9	3912.3	3921.7	3934.1	3932.5
12.5°	4046.0	4032.0	4039.8	4030.4	4027.3	4022.7	4022.7	4021.1	4028.9	4022.7
15°	4165.6	4156.3	4159.4	4153.2	4157.8	4154.7	4142.3	4136.1	4139.2	4129.9
17.5°	4307.0	4285.3	4296.1	4293.0	4293.0	4299.2	4279.0	4271.3	4277.5	4268.2
20°	4470.1	4448.4	4453.1	4446.8	4439.1	4445.3	4420.4	4426.6	4431.3	4425.1
22.5°	4648.8	4620.9	4619.3	4622.4	4605.3	4606.9	4589.8	4605.3	4614.6	4597.6
25°	4832.2	4802.7	4822.8	4815.1	4793.3	4798.0	4785.6	4801.1	4808.9	4787.1
27.5°	5026.4	5006.2	5024.8	5029.5	5003.1	5021.7	5003.1	5017.1	5024.8	4992.2
30°	5253.2	5233.0	5250.1	5262.6	5231.5	5261.0	5245.5	5254.8	5256.3	5217.5
32.5°	5500.3	5469.2	5512.7	5518.9	5484.7	5520.5	5500.3	5512.7	5520.5	5467.7
35°	5801.7	5762.9	5812.6	5804.8	5775.3	5804.8	5786.2	5804.8	5823.5	5759.8
37.5°	6126.4	6086.0	6138.9	6124.9	6096.9	6117.1	6106.2	6118.7	6148.2	6079.8
40°	6483.8	6434.1	6505.6	6480.7	6454.3	6451.2	6457.4	6465.2	6504.0	6427.9
42.5°	6866.0	6813.2	6920.4	6881.6	6844.3	6819.4	6839.6	6855.2	6892.4	6807.0
45°	7302.6	7242.0	7381.9	7335.3	7276.2	7225.0	7257.6	7280.9	7335.3	7232.7
47.5°	7784.3	7715.9	7865.1	7851.1	7754.8	7642.9	7717.5	7784.3	7824.7	7700.4
50°	8255.1	8202.3	8398.0	8415.1	8297.0	8140.1	8244.2	8345.2	8356.1	8192.9
52.5°	8696.4	8643.5	8927.9	9035.1	8929.4	8743.0	8853.3	8955.8	8873.5	8662.2
55°	9049.1	9005.6	9367.6	9644.1	9679.9	9526.1	9591.3	9588.2	9317.9	8993.1
57.5°	9134.5	9128.3	9585.1	10170.9	10543.8	10562.4	10433.5	10104.1	9521.4	9084.8
60°	8746.1	8784.9	9412.6	10445.9	11440.3	11853.6	11295.8	10355.8	9289.9	8683.9
62.5°	7583.9	7686.4	8443.1	10110.3	12164.3	13339.0	11987.2	9973.5	8339.0	7548.1
65°	5435.0	5613.7	6449.6	8628.0	12099.1	14644.1	11887.8	8558.1	6511.8	5599.7
67.5°	2465.8	2647.6	3357.7	5907.4	10517.4	14289.9	10492.5	5969.5	3525.5	2656.9
70°	893.4	924.5	1152.9	2364.8	6721.5	11385.9	7009.0	2381.9	1225.9	985.1
72.5°	540.7	545.4	593.5	846.8	2335.3	6912.6	2434.7	874.8	606.0	537.6
75°	343.4	340.3	422.6	517.4	828.2	2332.2	868.5	517.4	421.1	383.8
77.5°	247.0	254.8	303.0	386.9	522.1	790.9	512.7	369.8	303.0	248.6
80°	184.9	189.6	220.6	301.4	366.7	492.5	326.3	273.5	228.4	155.4
82.5°	133.6	133.6	144.5	219.1	223.7	265.7	177.1	192.7	150.7	110.3
85°	79.2	77.7	90.1	130.5	116.5	97.9	80.8	118.1	94.8	68.4
87.5°	28.0	29.5	28.0	37.3	31.1	26.4	24.9	32.6	26.4	23.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3685.5
3707.3
3758.5
3836.2
3929.4
4025.8
4131.4
4275.9
4439.1
4614.6
4812.0
5017.1
5240.8
5503.4
5798.6
6121.8
6452.7
6852.0
7285.5
7742.4
8213.1
8668.4
9004.0
9056.8
8612.5
7501.5
5532.9
2618.1
972.6
546.9
386.9
253.3
160.0
110.3
66.8
21.8
0.0

OF REPORT)