

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: P956212

Luminaire Tested: **GALN-SB8D-940-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956212
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-SB8D-940-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62445 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

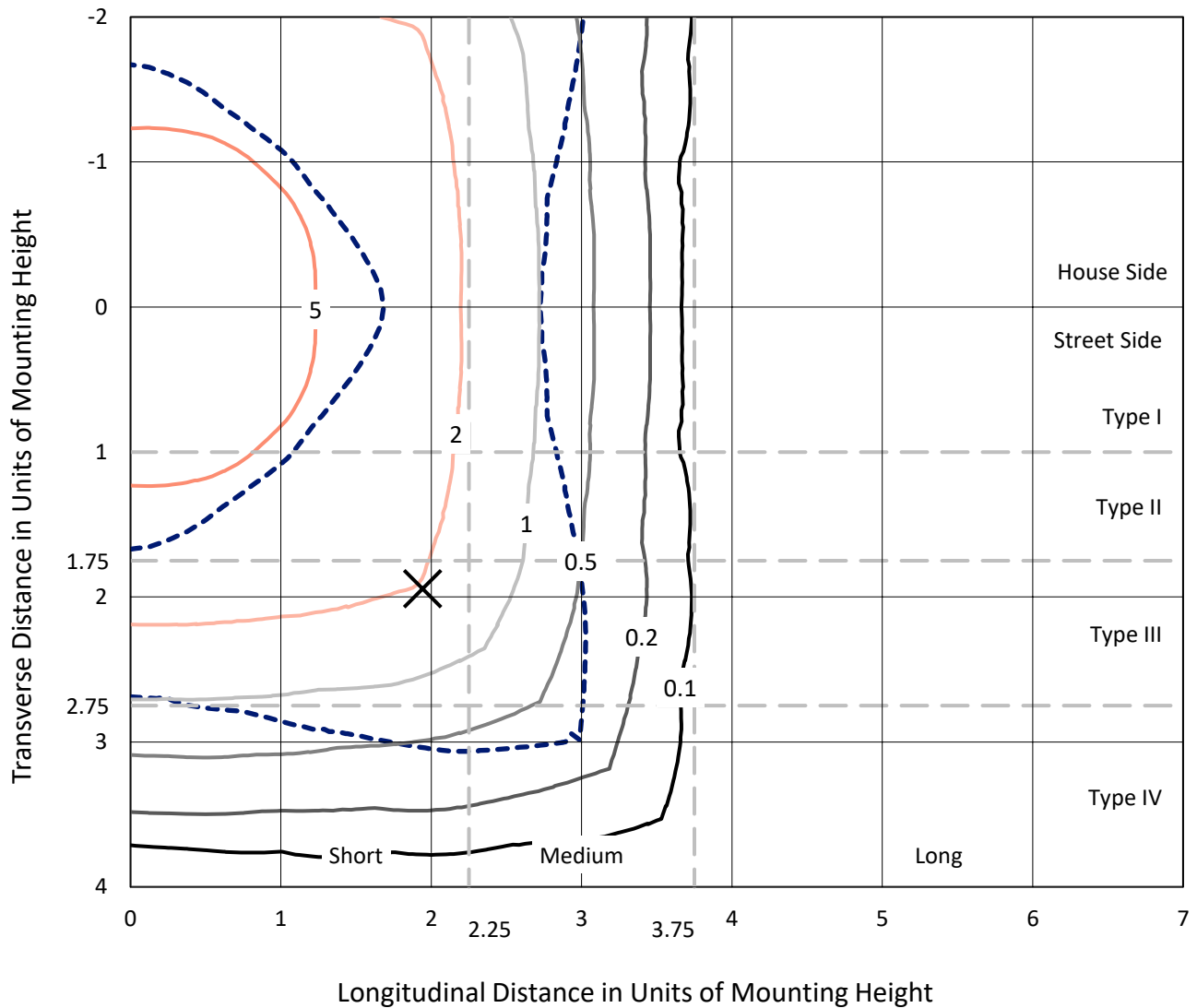
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

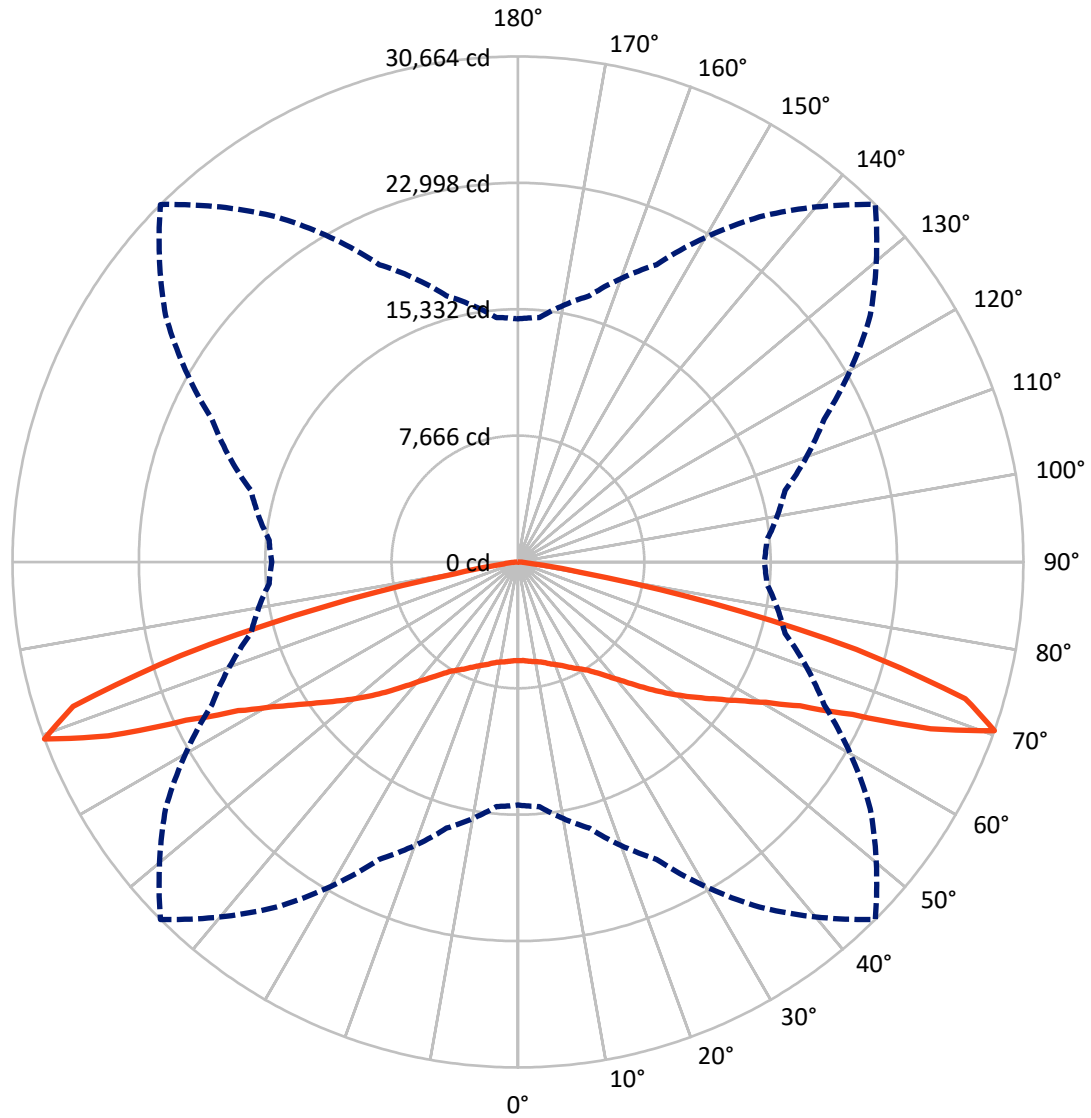
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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	31222.5	0.0	31222.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	31222.5	0.0	31222.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	62445.0	0.0	62445.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	581.1	0.9
10°-20°	1802.0	2.9
20°-30°	3220.3	5.2
30°-40°	5220.1	8.4
40°-50°	8502.7	13.6
50°-60°	12963.7	20.8
60°-70°	19285.8	30.9
70°-80°	10511.4	16.8
80°-90°	358.0	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°	62445.0	100.0
0°-180°	62445.0	100.0

Coefficient of Utilization



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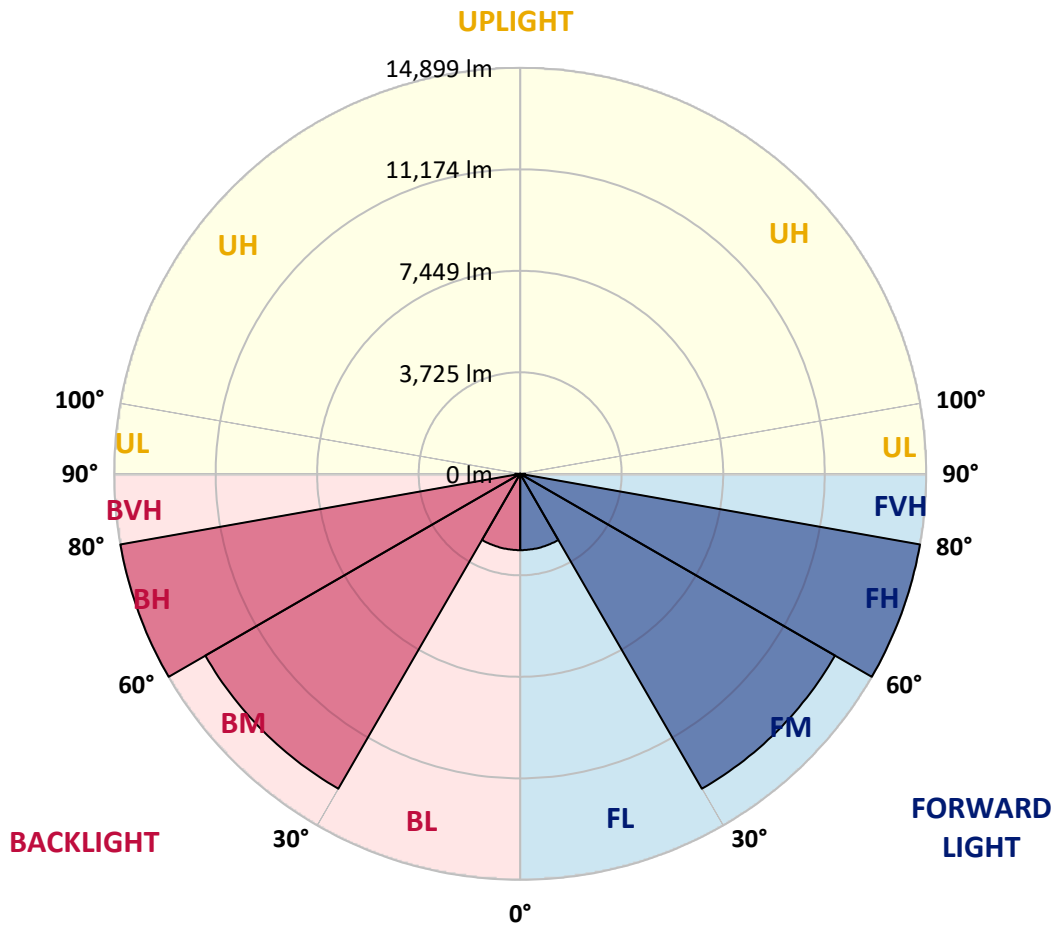
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2801.7	4.5			
FM (30°-60°)	13343.2	21.4			
FH (60°-80°)	14898.6	23.9			G5
FVH (80°-90°)	179.0	0.3			G2/225
BL (0°-30°)	2801.7	4.5	B4/5000		
BM (30°-60°)	13343.2	21.4	B5		
BH (60°-80°)	14898.6	23.9	B5		G5
BVH (80°-90°)	179.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5981.6	5981.6	5981.6	5981.6	5981.6	5981.6	5981.6	5981.6	5981.6	5981.6
2.5°	6009.8	6016.1	6003.5	5997.3	5991.0	5981.6	5984.7	6000.4	6012.9	6009.8
5°	6060.0	6066.2	6056.8	6053.7	6041.1	6038.0	6038.0	6053.7	6063.1	6056.8
7.5°	6116.4	6125.8	6110.1	6107.0	6100.7	6094.4	6091.3	6107.0	6116.4	6116.4
10°	6169.7	6179.1	6166.5	6157.1	6150.9	6150.9	6144.6	6157.1	6172.8	6169.7
12.5°	6226.1	6232.4	6219.8	6213.6	6213.6	6223.0	6213.6	6219.8	6232.4	6226.1
15°	6295.1	6298.2	6295.1	6304.5	6320.2	6351.5	6323.3	6317.0	6323.3	6307.6
17.5°	6389.1	6395.4	6407.9	6429.9	6451.8	6508.3	6458.1	6442.4	6442.4	6411.1
20°	6505.1	6514.5	6533.3	6571.0	6599.2	6652.5	6602.3	6580.4	6571.0	6530.2
22.5°	6627.4	6643.1	6671.3	6721.4	6771.6	6821.8	6771.6	6734.0	6705.8	6652.5
25°	6768.5	6787.3	6831.2	6912.7	6981.7	7053.8	6994.2	6919.0	6862.5	6787.3
27.5°	6969.1	6991.1	7044.4	7144.7	7232.5	7295.2	7238.7	7141.5	7063.2	6972.2
30°	7251.3	7273.2	7335.9	7442.5	7502.1	7542.8	7505.2	7430.0	7335.9	7232.5
32.5°	7614.9	7643.1	7712.1	7812.4	7825.0	7831.2	7818.7	7781.1	7712.1	7586.7
35°	8075.8	8107.1	8185.5	8267.0	8254.5	8267.0	8248.2	8235.7	8185.5	8041.3
37.5°	8640.1	8677.7	8759.2	8821.9	8790.5	8774.9	8778.0	8781.1	8752.9	8593.0
40°	9295.3	9345.4	9405.0	9470.8	9417.5	9370.5	9401.9	9427.0	9401.9	9238.9
42.5°	9969.3	10041.4	10104.1	10198.2	10154.3	10094.7	10138.6	10166.8	10113.5	9938.0
45°	10718.6	10787.5	10869.1	11010.1	10978.8	10916.1	10978.8	10985.0	10894.1	10687.2
47.5°	11492.9	11565.0	11687.3	11875.4	11862.8	11793.9	11875.4	11831.5	11715.5	11467.8
50°	12226.5	12326.8	12514.9	12778.3	12803.4	12718.7	12828.4	12743.8	12549.4	12239.0
52.5°	12916.2	13022.8	13320.6	13678.0	13768.9	13659.2	13806.6	13659.2	13367.7	12969.5
55°	13640.4	13759.5	14113.8	14580.9	14762.7	14681.2	14819.2	14596.6	14182.8	13700.0
57.5°	14493.1	14565.2	14988.4	15543.3	15850.6	15869.4	15932.1	15555.9	15054.3	14505.7
60°	15417.9	15518.3	15979.1	16643.7	17129.7	17286.4	17220.6	16662.5	16079.4	15449.3
62.5°	16603.0	16712.7	17264.5	18060.7	18828.8	19217.6	18960.5	18151.7	17430.6	16675.1
65°	17584.2	17706.5	18703.4	20123.6	21521.8	22302.4	21656.6	20167.5	18869.6	17803.7
67.5°	16872.6	17023.1	18587.4	21195.8	24672.5	27001.8	24791.6	21515.5	18973.0	17527.8
70°	14747.1	14888.1	16712.7	19901.0	25559.7	30663.5	26092.6	20487.2	16772.3	15154.6
72.5°	9790.6	10245.2	12091.7	15916.4	22822.8	28374.9	23048.5	15593.5	11217.0	9768.7
75°	3247.9	3611.5	4871.8	8251.3	15286.3	21220.8	14552.7	7301.4	3859.2	2777.6
77.5°	818.2	943.6	1301.0	2360.7	6097.6	12082.3	5489.4	1928.0	1050.2	733.6
80°	398.1	438.9	627.0	786.9	1526.7	3840.4	1432.7	739.9	495.3	382.5
82.5°	219.5	222.6	354.3	445.2	567.4	993.8	589.4	432.6	285.3	232.0
85°	134.8	131.7	188.1	238.3	238.3	354.3	282.2	238.3	163.0	144.2
87.5°	53.3	53.3	69.0	75.2	65.8	90.9	72.1	78.4	62.7	59.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
5981.6
6012.9
6060.0
6116.4
6169.7
6223.0
6307.6
6411.1
6530.2
6649.3
6784.1
6969.1
7232.5
7589.8
8041.3
8593.0
9238.9
9950.5
10709.2
11452.2
12232.8
12931.9
13634.1
14430.4
15349.0
16543.4
17628.1
17311.5
14938.3
9452.0
2627.1
655.2
351.1
232.0
150.5
62.7
0.0

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