

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: P944133

Luminaire Tested: **GALN-SB8D-940-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944133
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
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-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58987 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

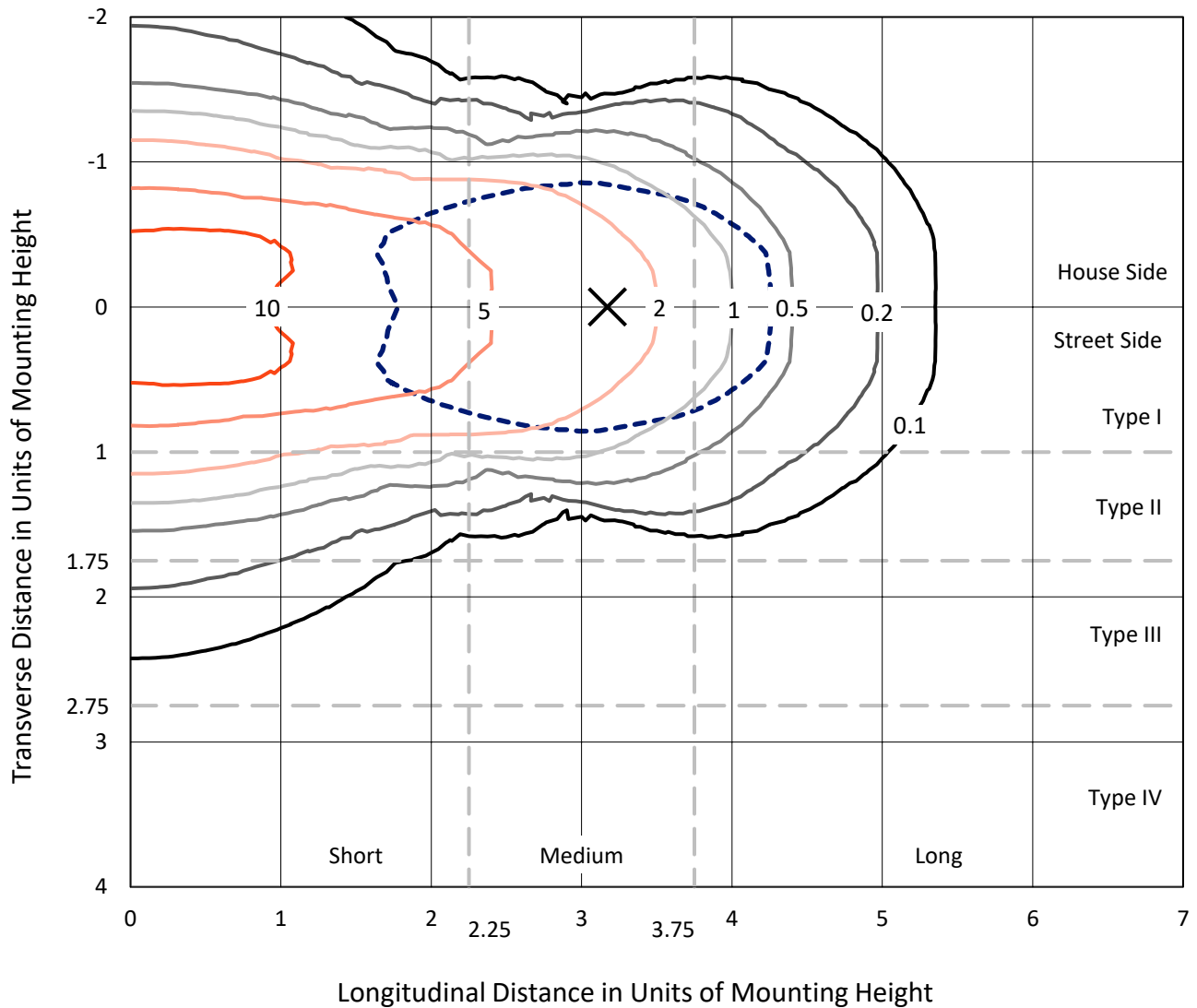
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

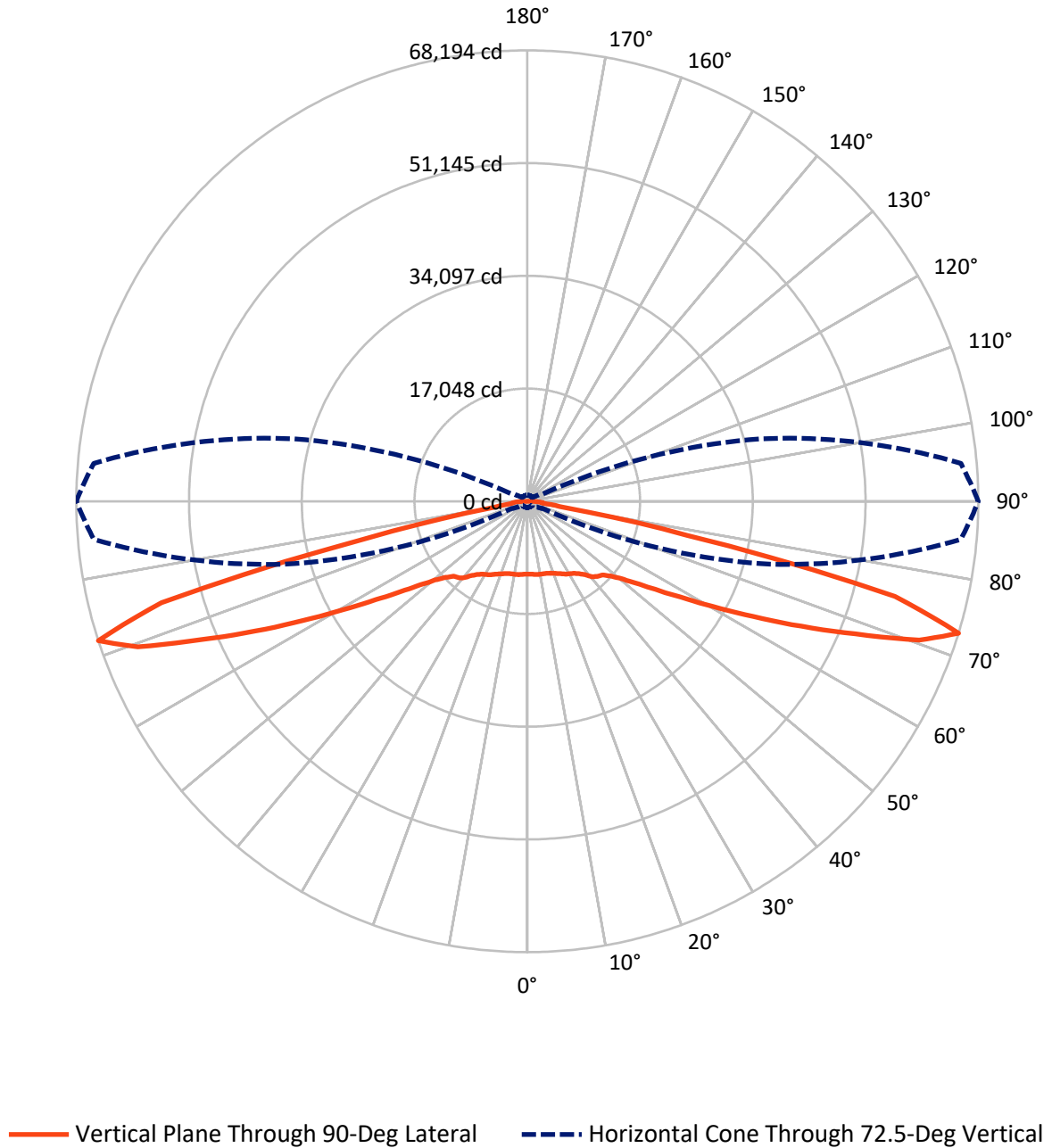
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29493.5	0.0	29493.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29493.5	0.0	29493.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	58987.0	0.0	58987.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1068.7	1.8
10°-20°	3267.8	5.5
20°-30°	5448.8	9.2
30°-40°	7493.8	12.7
40°-50°	9151.9	15.5
50°-60°	10585.2	17.9
60°-70°	12621.1	21.4
70°-80°	8808.7	14.9
80°-90°	541.0	0.9
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°	58987.0	100.0
0°-180°	58987.0	100.0

Coefficient of Utilization



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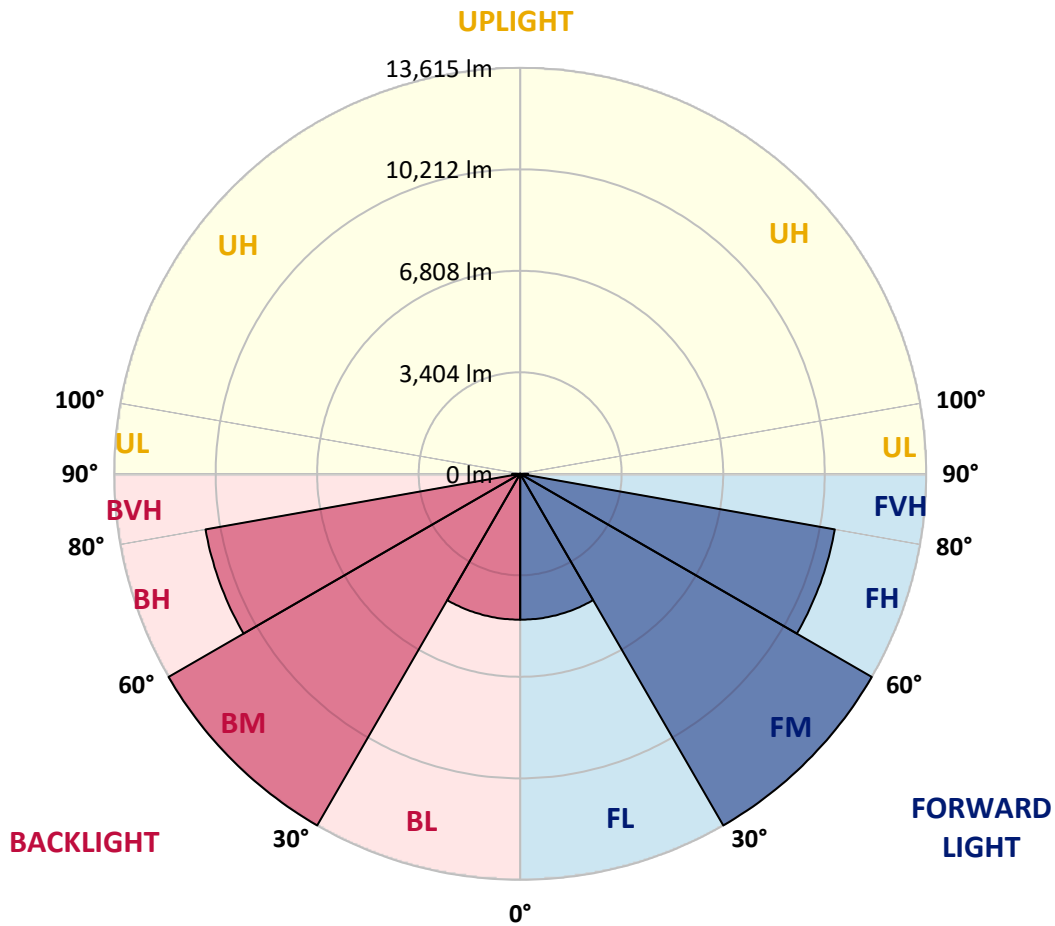
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4892.7	8.3			
FM	(30°-60°)	13615.4	23.1			
FH	(60°-80°)	10714.9	18.2			G4/12000
FVH	(80°-90°)	270.5	0.5			G3/500
BL	(0°-30°)	4892.7	8.3	B4/5000		
BM	(30°-60°)	13615.4	23.1	B5		
BH	(60°-80°)	10714.9	18.2	B5		G5
BVH	(80°-90°)	270.5	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11022.3	11022.3	11022.3	11022.3	11022.3	11022.3	11022.3	11022.3	11022.3	11022.3
2.5°	11031.7	11044.3	11044.3	11034.9	11056.8	11038.0	11038.0	11028.6	11038.0	11028.6
5°	11088.2	11103.9	11110.1	11107.0	11135.2	11119.5	11119.5	11107.0	11110.1	11100.7
7.5°	11194.8	11216.7	11229.2	11244.9	11285.7	11266.9	11254.3	11216.7	11201.0	11176.0
10°	11229.2	11254.3	11295.1	11376.6	11470.6	11473.8	11436.2	11342.1	11270.0	11213.6
12.5°	11122.7	11157.1	11241.8	11407.9	11618.0	11702.6	11643.1	11486.3	11345.2	11244.9
15°	10987.9	11025.5	11154.0	11404.8	11715.2	11912.7	11906.4	11699.5	11473.8	11317.0
17.5°	10777.8	10815.4	11000.4	11351.5	11790.4	12116.4	12204.2	11991.0	11674.4	11464.4
20°	10398.5	10433.0	10690.0	11182.2	11815.5	12332.7	12561.6	12373.5	11978.5	11693.2
22.5°	9906.3	9959.6	10260.6	10890.7	11755.9	12558.4	12969.1	12840.6	12332.7	11937.7
25°	9379.7	9436.1	9787.2	10533.3	11602.3	12721.5	13451.9	13370.4	12734.0	12241.8
27.5°	8925.1	8984.7	9367.1	10179.1	11364.0	12784.2	13928.4	13969.2	13219.9	12577.3
30°	8567.7	8624.1	9031.7	9893.8	11056.8	12721.5	14345.3	14627.5	13715.2	12868.8
32.5°	8175.8	8247.9	8677.4	9545.8	10693.2	12571.0	14709.0	15339.1	14288.9	13182.3
35°	7680.5	7746.4	8197.8	9069.3	10216.7	12329.6	15013.1	16129.1	15110.3	13658.8
37.5°	7078.6	7141.3	7589.6	8473.7	9743.3	11991.0	15245.1	17019.4	16088.4	14345.3
40°	6473.6	6533.2	6953.2	7809.1	9175.9	11558.4	15326.6	17890.9	17210.7	15289.0
42.5°	5918.7	5972.0	6357.6	7153.9	8539.5	11006.7	15220.0	18649.6	18217.0	15947.3
45°	5407.7	5454.7	5796.4	6539.4	7878.0	10335.8	14900.2	19464.7	19414.5	16417.5
47.5°	4824.6	4871.7	5225.9	5943.8	7216.6	9548.9	14357.9	20267.2	21079.1	17483.4
50°	4113.0	4153.8	4517.4	5257.2	6530.0	8711.9	13605.5	20897.3	23179.5	19097.9
52.5°	3269.7	3313.6	3667.8	4407.7	5714.9	7812.2	12614.9	21308.0	25605.9	21455.3
55°	2432.7	2464.0	2771.3	3435.9	4705.5	6787.1	11373.5	21424.0	28358.4	24678.0
57.5°	1765.0	1783.8	1981.3	2476.6	3567.5	5504.9	9865.6	21123.0	31634.4	28809.8
60°	1429.5	1435.8	1495.4	1714.8	2479.7	4056.6	8044.2	20088.5	35189.4	34136.0
62.5°	1297.9	1297.9	1313.5	1373.1	1677.2	2677.2	5840.3	17944.2	39001.4	40866.7
65°	1206.9	1206.9	1213.2	1241.4	1322.9	1705.4	3686.7	14451.9	42214.7	48751.0
67.5°	1125.4	1128.6	1125.4	1134.8	1181.9	1260.2	2138.0	9981.6	43945.2	56920.6
70°	1040.8	1047.1	1031.4	1031.4	1069.0	1072.1	1338.6	5473.6	42509.4	63767.2
72.5°	940.5	949.9	924.8	918.5	946.7	934.2	1006.3	2627.1	36496.6	65811.2
75°	852.7	865.2	808.8	793.1	793.1	783.7	818.2	1348.0	23687.4	53685.3
77.5°	774.3	799.4	708.5	658.3	645.8	617.6	667.7	824.5	10360.9	25204.7
80°	639.5	674.0	583.1	523.5	501.6	470.2	526.7	576.8	3081.6	5852.9
82.5°	476.5	492.2	413.8	373.1	354.2	332.3	395.0	401.3	1003.2	2072.2
85°	304.1	310.4	253.9	219.4	210.0	200.6	250.8	219.4	382.5	1523.6
87.5°	106.6	122.3	97.2	87.8	94.0	78.4	116.0	65.8	106.6	1075.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

11022.3
11028.6
11100.7
11176.0
11204.2
11229.2
11291.9
11429.9
11639.9
11865.6
12141.5
12470.7
12715.2
12987.9
13442.5
14056.9
14981.7
15552.3
15884.6
16869.0
18326.7
20505.4
23489.9
27314.5
32252.0
38343.1
45559.6
53475.3
62861.2
68193.7
57422.1
24681.1
5605.2
2341.8
2213.2
1332.3
0.0

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