

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: P950290

Luminaire Tested: **GALN-SB4D-750-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950290
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-SB4D-750-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45187 lumens
Efficiency: N/A
Efficacy: 153.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

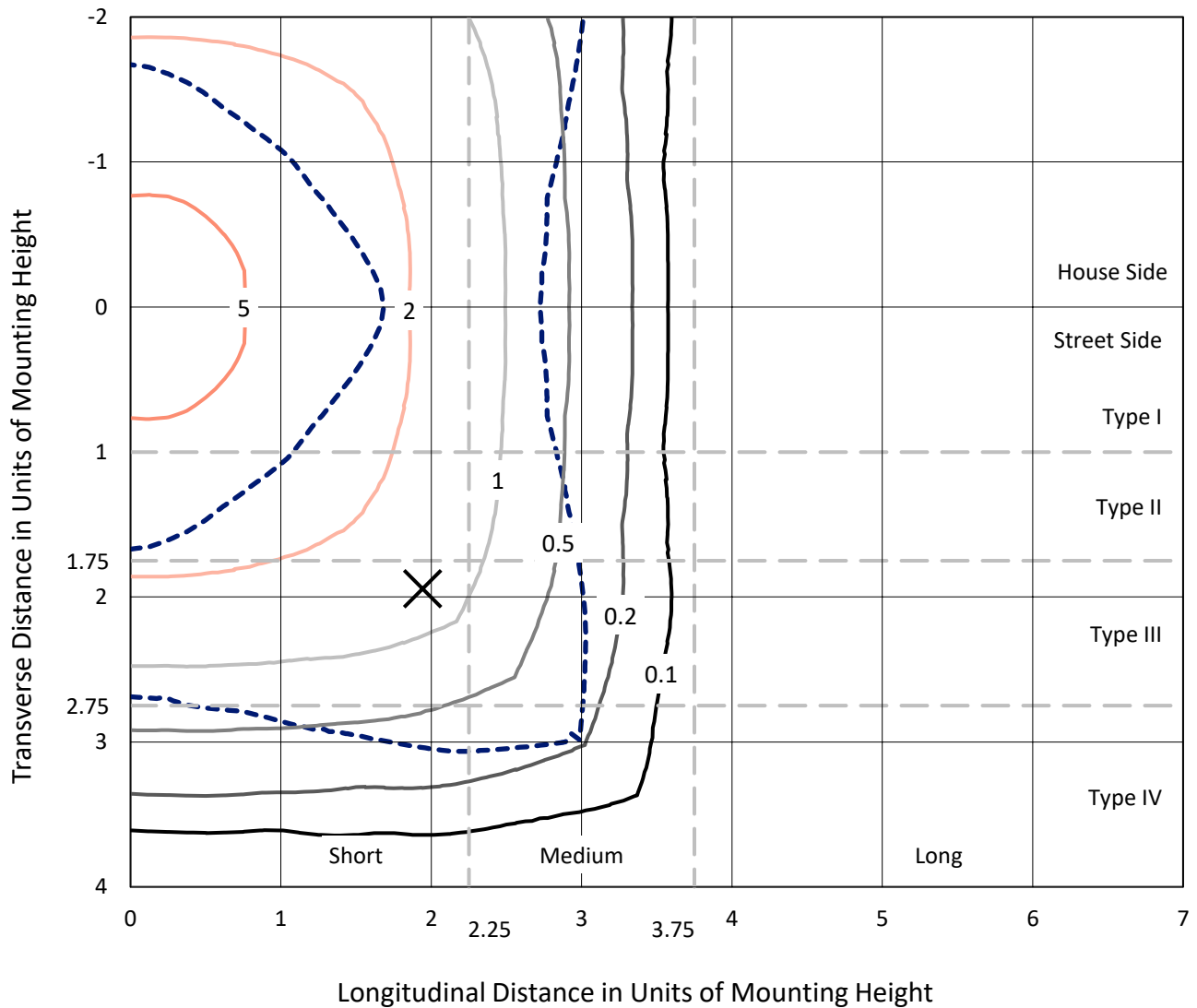
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

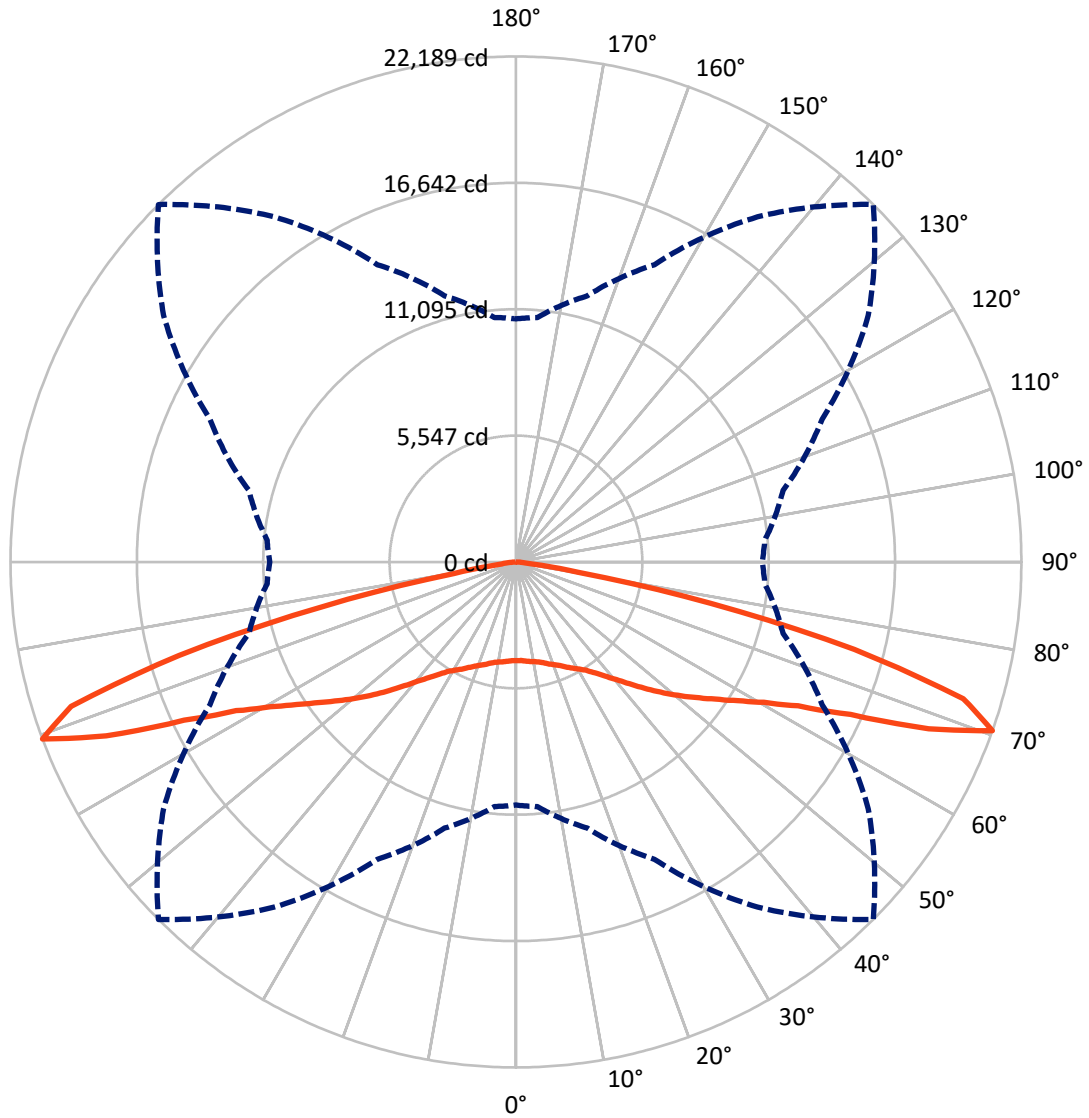
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	22593.5	0.0	22593.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22593.5	0.0	22593.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	45187.0	0.0	45187.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.5	0.9
10°-20°	1304.0	2.9
20°-30°	2330.3	5.2
30°-40°	3777.4	8.4
40°-50°	6152.8	13.6
50°-60°	9380.9	20.8
60°-70°	13955.8	30.9
70°-80°	7606.4	16.8
80°-90°	259.0	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°	45187.0	100.0
0°-180°	45187.0	100.0



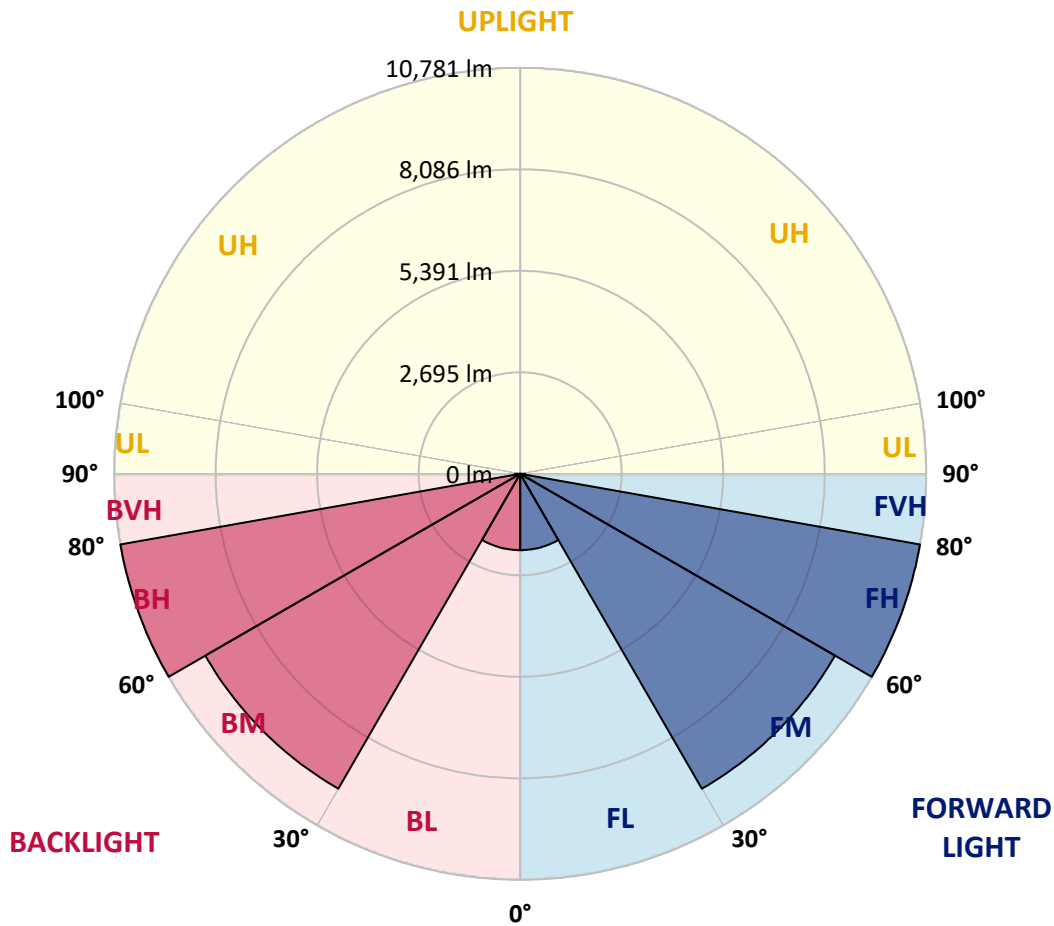
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2027.4	4.5			
FM	(30°-60°)	9655.5	21.4			
FH	(60°-80°)	10781.1	23.9			G4/12000
FVH	(80°-90°)	129.5	0.3			G2/225
BL	(0°-30°)	2027.4	4.5	B3/2500		
BM	(30°-60°)	9655.5	21.4	B5		
BH	(60°-80°)	10781.1	23.9	B5		G4/12000
BVH	(80°-90°)	129.5	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-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4328.4	4328.4	4328.4	4328.4	4328.4	4328.4	4328.4	4328.4	4328.4	4328.4
2.5°	4348.9	4353.4	4344.3	4339.8	4335.3	4328.4	4330.7	4342.1	4351.1	4348.9
5°	4385.2	4389.7	4382.9	4380.6	4371.5	4369.3	4369.3	4380.6	4387.4	4382.9
7.5°	4426.0	4432.8	4421.5	4419.2	4414.7	4410.1	4407.8	4419.2	4426.0	4426.0
10°	4464.6	4471.4	4462.3	4455.5	4451.0	4451.0	4446.4	4455.5	4466.8	4464.6
12.5°	4505.4	4509.9	4500.9	4496.3	4496.3	4503.1	4496.3	4500.9	4509.9	4505.4
15°	4555.3	4557.6	4555.3	4562.1	4573.5	4596.1	4575.7	4571.2	4575.7	4564.4
17.5°	4623.4	4627.9	4637.0	4652.9	4668.7	4709.6	4673.3	4661.9	4661.9	4639.2
20°	4707.3	4714.1	4727.7	4754.9	4775.4	4813.9	4777.6	4761.7	4754.9	4725.4
22.5°	4795.8	4807.1	4827.5	4863.8	4900.1	4936.4	4900.1	4872.9	4852.5	4813.9
25°	4897.9	4911.5	4943.2	5002.2	5052.1	5104.3	5061.2	5006.8	4965.9	4911.5
27.5°	5043.0	5058.9	5097.5	5170.1	5233.6	5279.0	5238.1	5167.8	5111.1	5045.3
30°	5247.2	5263.1	5308.5	5385.6	5428.7	5458.2	5431.0	5376.5	5308.5	5233.6
32.5°	5510.4	5530.8	5580.7	5653.3	5662.4	5666.9	5657.8	5630.6	5580.7	5490.0
35°	5843.9	5866.5	5923.3	5982.2	5973.2	5982.2	5968.6	5959.6	5923.3	5818.9
37.5°	6252.2	6279.4	6338.4	6383.8	6361.1	6349.7	6352.0	6354.3	6333.9	6218.2
40°	6726.3	6762.6	6805.7	6853.4	6814.8	6780.8	6803.5	6821.6	6803.5	6685.5
42.5°	7214.1	7266.3	7311.6	7379.7	7347.9	7304.8	7336.6	7357.0	7318.4	7191.4
45°	7756.3	7806.2	7865.2	7967.2	7944.6	7899.2	7944.6	7949.1	7883.3	7733.6
47.5°	8316.6	8368.8	8457.3	8593.4	8584.3	8534.4	8593.4	8561.6	8477.7	8298.5
50°	8847.5	8920.0	9056.2	9246.7	9264.9	9203.6	9283.0	9221.8	9081.1	8856.5
52.5°	9346.5	9423.7	9639.2	9897.8	9963.6	9884.2	9990.8	9884.2	9673.2	9385.1
55°	9870.6	9956.8	10213.1	10551.2	10682.7	10623.8	10723.6	10562.5	10263.0	9913.7
57.5°	10487.6	10539.8	10846.1	11247.6	11469.9	11483.5	11528.9	11256.7	10893.7	10496.7
60°	11156.9	11229.5	11562.9	12043.9	12395.5	12508.9	12461.3	12057.5	11635.5	11179.6
62.5°	12014.4	12093.8	12493.1	13069.3	13625.1	13906.4	13720.4	13135.1	12613.3	12066.6
65°	12724.5	12812.9	13534.3	14562.0	15573.8	16138.7	15671.3	14593.8	13654.6	12883.3
67.5°	12209.5	12318.4	13450.4	15337.9	17853.7	19539.3	17939.9	15569.3	13729.4	12683.6
70°	10671.4	10773.5	12093.8	14400.9	18495.7	22189.0	18881.4	14825.2	12136.9	10966.3
72.5°	7084.8	7413.7	8749.9	11517.6	16515.2	20532.9	16678.6	11283.9	8117.0	7068.9
75°	2350.2	2613.4	3525.4	5970.9	11061.6	15356.0	10530.7	5283.5	2792.6	2010.0
77.5°	592.1	682.8	941.5	1708.2	4412.4	8743.1	3972.3	1395.2	760.0	530.8
80°	288.1	317.6	453.7	569.4	1104.8	2779.0	1036.7	535.4	358.4	276.8
82.5°	158.8	161.1	256.3	322.1	410.6	719.1	426.5	313.1	206.4	167.9
85°	97.5	95.3	136.1	172.4	172.4	256.3	204.2	172.4	118.0	104.4
87.5°	38.6	38.6	49.9	54.4	47.6	65.8	52.2	56.7	45.4	43.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4328.4
4351.1
4385.2
4426.0
4464.6
4503.1
4564.4
4639.2
4725.4
4811.7
4909.2
5043.0
5233.6
5492.2
5818.9
6218.2
6685.5
7200.5
7749.5
8287.1
8852.0
9357.9
9866.0
10442.3
11107.0
11971.3
12756.2
12527.1
10809.8
6839.8
1901.1
474.1
254.1
167.9
108.9
45.4
0.0

OF REPORT)