

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: P955981

Luminaire Tested: **GALN-SB8D-740-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955981
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-740-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 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: 91169 lumens
Efficiency: N/A
Efficacy: 155.9 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

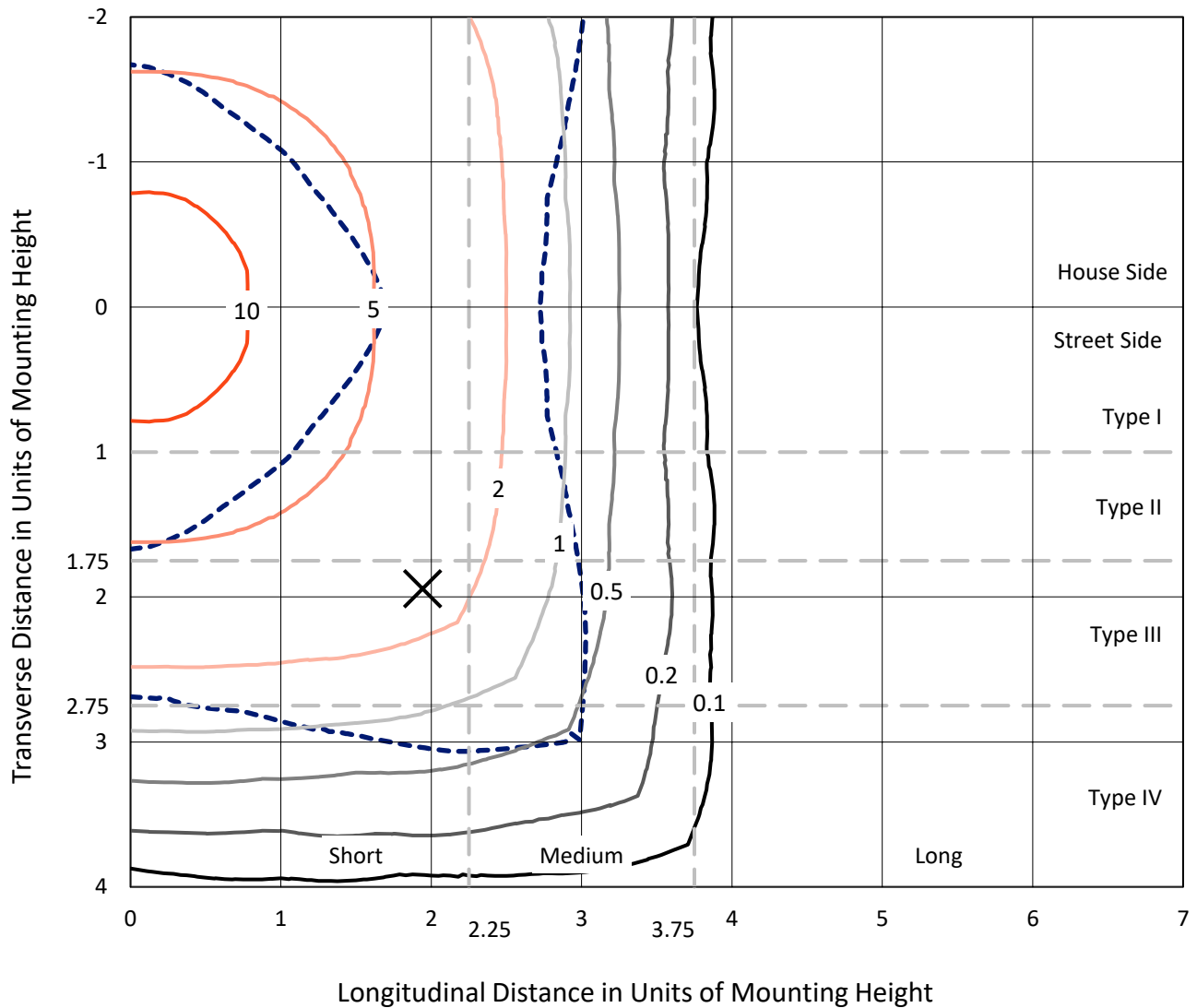
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

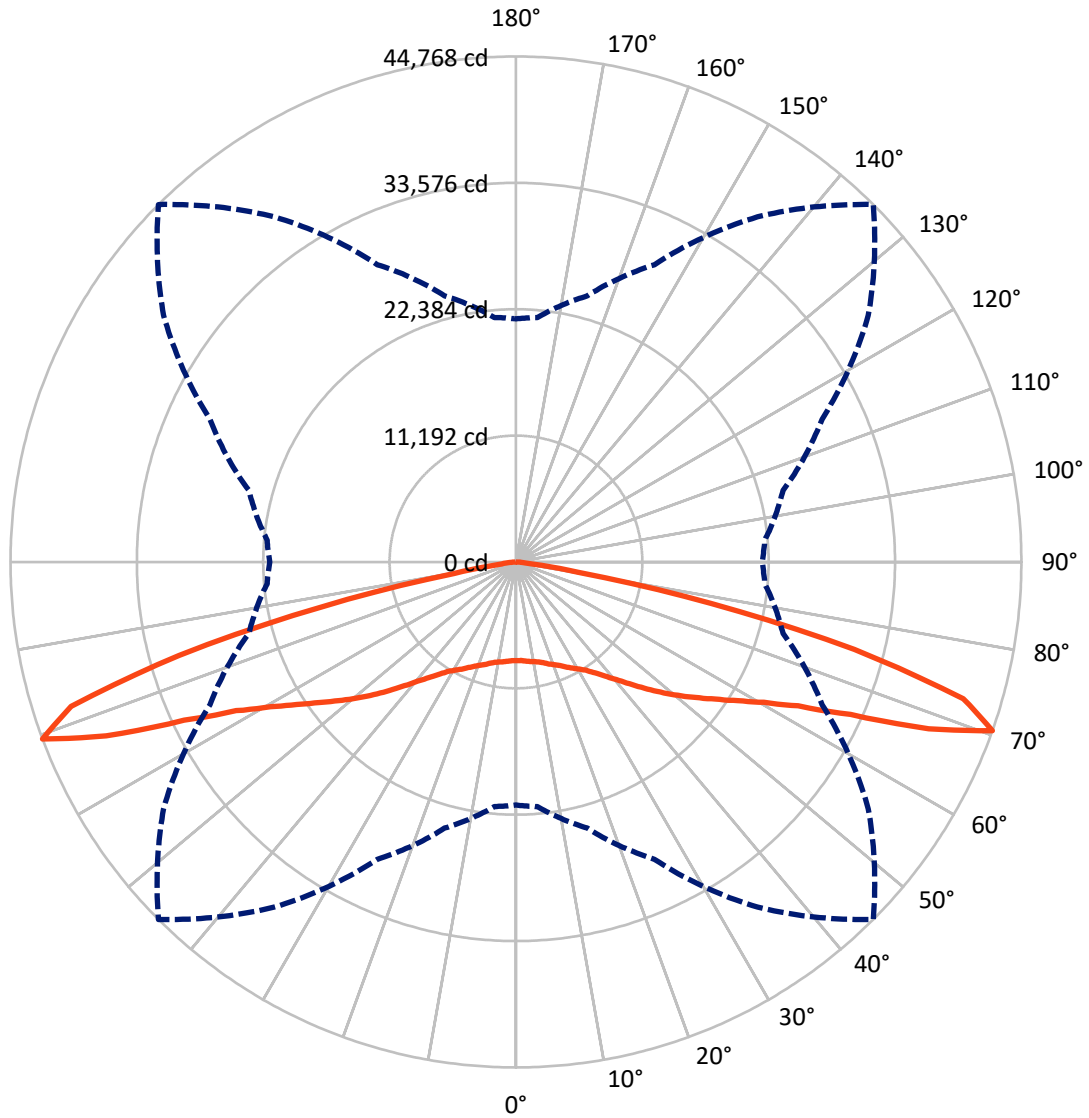
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 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	45584.5	0.0	45584.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	45584.5	0.0	45584.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	91169.0	0.0	91169.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	848.4	0.9
10°-20°	2630.8	2.9
20°-30°	4701.6	5.2
30°-40°	7621.3	8.4
40°-50°	12413.8	13.6
50°-60°	18926.8	20.8
60°-70°	28157.1	30.9
70°-80°	15346.5	16.8
80°-90°	522.6	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°	91169.0	100.0
0°-180°	91169.0	100.0

Coefficient of Utilization

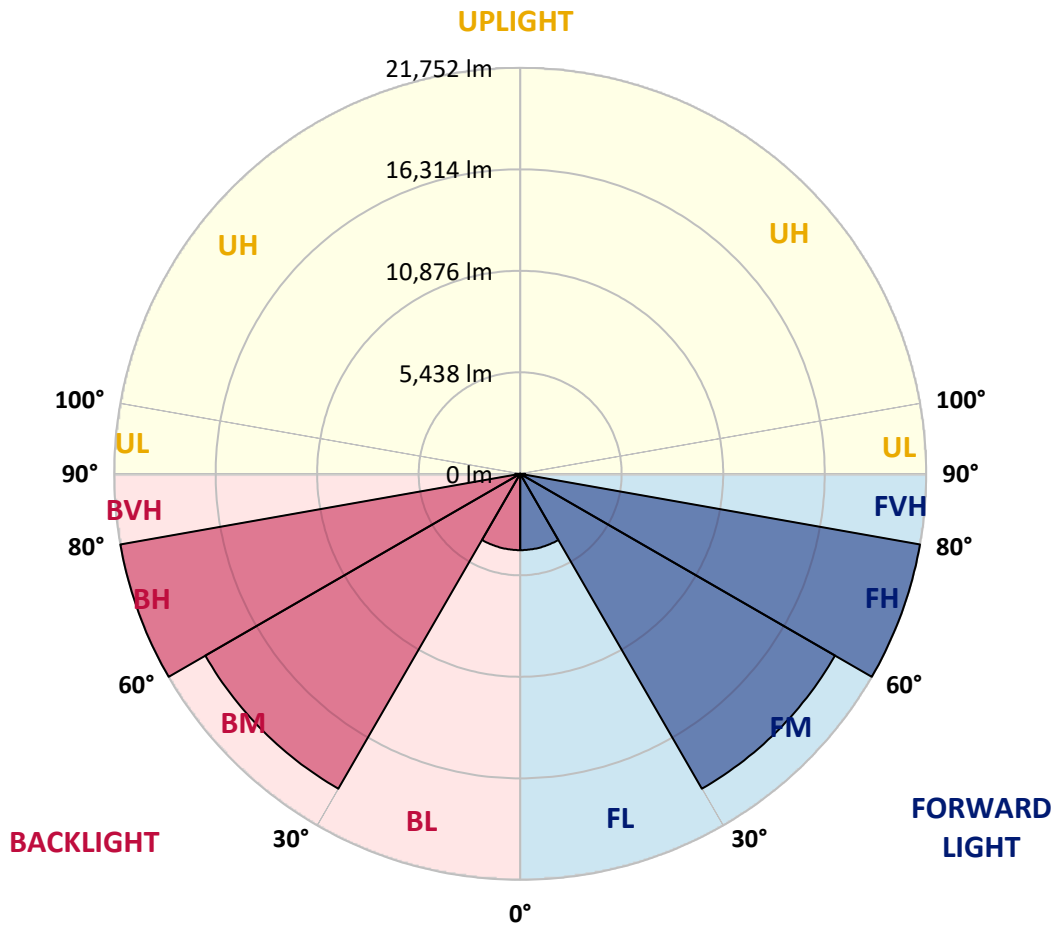


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4090.4	4.5			
FM	(30°-60°)	19480.9	21.4			
FH	(60°-80°)	21751.8	23.9			G5
FVH	(80°-90°)	261.3	0.3			G3/500
BL	(0°-30°)	4090.4	4.5	B4/5000		
BM	(30°-60°)	19480.9	21.4	B5		
BH	(60°-80°)	21751.8	23.9	B5		G5
BVH	(80°-90°)	261.3	0.3			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 V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8733.0	8733.0	8733.0	8733.0	8733.0	8733.0	8733.0	8733.0	8733.0	8733.0
2.5°	8774.2	8783.4	8765.1	8755.9	8746.8	8733.0	8737.6	8760.5	8778.8	8774.2
5°	8847.5	8856.6	8842.9	8838.3	8820.0	8815.4	8815.4	8838.3	8852.1	8842.9
7.5°	8929.9	8943.6	8920.7	8916.1	8907.0	8897.8	8893.2	8916.1	8929.9	8929.9
10°	9007.7	9021.4	9003.1	8989.4	8980.2	8980.2	8971.1	8989.4	9012.2	9007.7
12.5°	9090.1	9099.2	9080.9	9071.7	9071.7	9085.5	9071.7	9080.9	9099.2	9090.1
15°	9190.8	9195.3	9190.8	9204.5	9227.4	9273.1	9231.9	9222.8	9231.9	9209.1
17.5°	9328.1	9337.2	9355.5	9387.6	9419.6	9502.0	9428.8	9405.9	9405.9	9360.1
20°	9497.4	9511.1	9538.6	9593.5	9634.7	9712.5	9639.3	9607.3	9593.5	9534.0
22.5°	9675.9	9698.8	9740.0	9813.2	9886.5	9959.7	9886.5	9831.5	9790.3	9712.5
25°	9881.9	9909.4	9973.4	10092.4	10193.1	10298.4	10211.4	10101.6	10019.2	9909.4
27.5°	10174.8	10206.9	10284.7	10431.1	10559.3	10650.8	10568.5	10426.6	10312.1	10179.4
30°	10586.8	10618.8	10710.3	10866.0	10952.9	11012.4	10957.5	10847.7	10710.3	10559.3
32.5°	11117.7	11158.9	11259.6	11406.1	11424.4	11433.5	11415.2	11360.3	11259.6	11076.5
35°	11790.5	11836.3	11950.7	12069.7	12051.4	12069.7	12042.3	12024.0	11950.7	11740.2
37.5°	12614.4	12669.3	12788.3	12879.9	12834.1	12811.2	12815.8	12820.4	12779.2	12545.7
40°	13571.0	13644.2	13731.2	13827.3	13749.5	13680.9	13726.6	13763.2	13726.6	13488.6
42.5°	14555.1	14660.4	14751.9	14889.2	14825.1	14738.2	14802.2	14843.4	14765.6	14509.3
45°	15649.0	15749.7	15868.7	16074.7	16028.9	15937.4	16028.9	16038.0	15905.3	15603.2
47.5°	16779.5	16884.8	17063.3	17337.9	17319.6	17218.9	17337.9	17273.9	17104.5	16742.9
50°	17850.6	17997.0	18271.7	18656.1	18692.7	18569.2	18729.4	18605.8	18322.0	17868.9
52.5°	18857.5	19013.1	19448.0	19969.7	20102.5	19942.3	20157.4	19942.3	19516.6	18935.3
55°	19914.8	20088.8	20606.0	21287.9	21553.4	21434.4	21635.8	21310.8	20706.7	20001.8
57.5°	21159.8	21265.1	21883.0	22693.1	23141.7	23169.1	23260.7	22711.4	21979.1	21178.1
60°	22510.0	22656.5	23329.3	24299.7	25009.1	25238.0	25141.8	24327.1	23475.8	22555.8
62.5°	24240.2	24400.4	25205.9	26368.5	27489.9	28057.4	27682.1	26501.2	25448.5	24345.4
65°	25672.8	25851.3	27306.8	29380.2	31421.6	32561.3	31618.4	29444.3	27549.4	25993.2
67.5°	24633.8	24853.5	27137.4	30945.6	36021.5	39422.3	36195.5	31412.4	27700.4	25590.4
70°	21530.5	21736.5	24400.4	29055.2	37316.8	44768.3	38094.9	29911.1	24487.3	22125.5
72.5°	14294.2	14957.9	17653.8	23237.8	33321.1	41427.0	33650.6	22766.3	16376.8	14262.1
75°	4741.8	5272.8	7112.8	12046.8	22317.8	30982.2	21246.8	10660.0	5634.4	4055.3
77.5°	1194.6	1377.7	1899.5	3446.5	8902.4	17640.0	8014.4	2814.9	1533.3	1071.0
80°	581.3	640.8	915.4	1148.8	2229.0	5606.9	2091.7	1080.2	723.2	558.4
82.5°	320.4	325.0	517.2	649.9	828.4	1450.9	860.5	631.6	416.5	338.7
85°	196.8	192.2	274.6	347.9	347.9	517.2	411.9	347.9	238.0	210.5
87.5°	77.8	77.8	100.7	109.8	96.1	132.7	105.3	114.4	91.5	87.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
8733.0
8778.8
8847.5
8929.9
9007.7
9085.5
9209.1
9360.1
9534.0
9708.0
9904.8
10174.8
10559.3
11081.1
11740.2
12545.7
13488.6
14527.6
15635.3
16720.0
17859.7
18880.4
19905.7
21068.2
22409.3
24153.2
25736.9
25274.6
21809.7
13799.9
3835.6
956.6
512.6
338.7
219.7
91.5
0.0

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