

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: P951697

Luminaire Tested: **GALN-SB5D-740-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951697  
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-SB5D-740-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

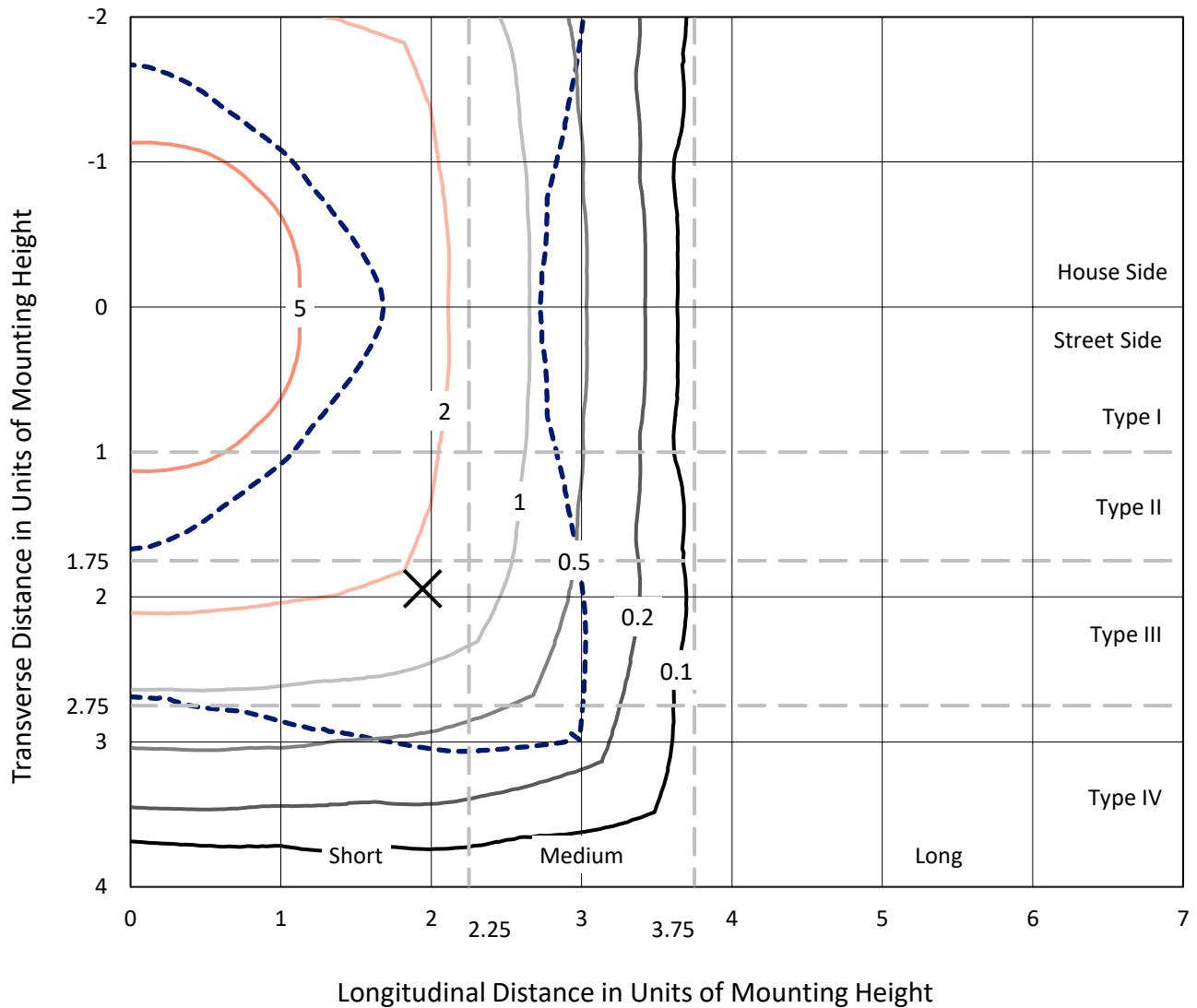
Lumens per Lamp: N/A  
Luminaire Lumens: 56954 lumens  
Efficiency: N/A  
Efficacy: 156.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

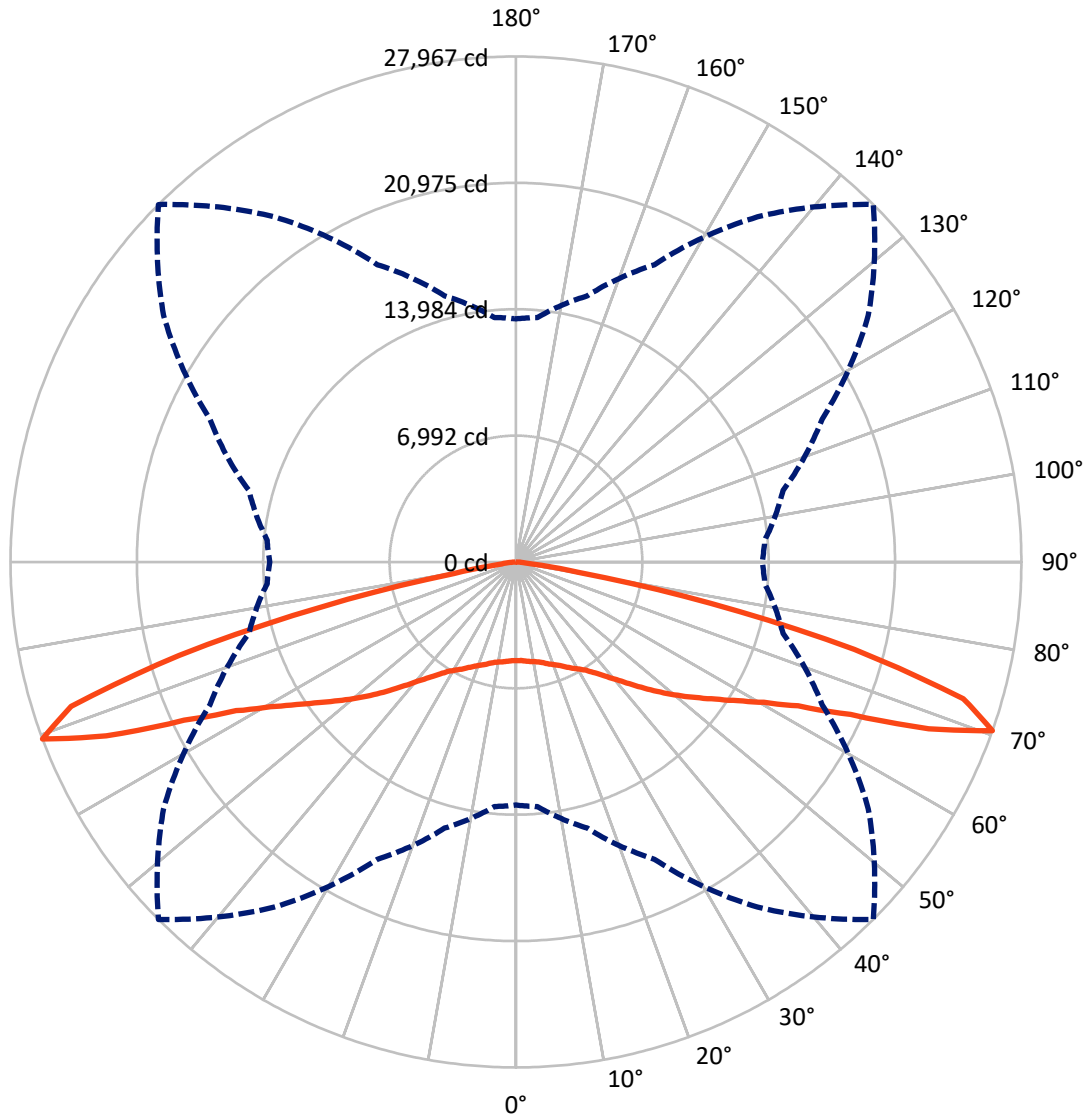
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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
<b>House Side</b>	Lumens	28477.0	0.0	28477.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	28477.0	0.0	28477.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	56954.0	0.0	56954.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	530.0	0.9
10°-20°	1643.5	2.9
20°-30°	2937.1	5.2
30°-40°	4761.1	8.4
40°-50°	7755.0	13.6
50°-60°	11823.7	20.8
60°-70°	17590.0	30.9
70°-80°	9587.1	16.8
80°-90°	326.5	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°	56954.0	100.0
0°-180°	56954.0	100.0

**Coefficient of Utilization**



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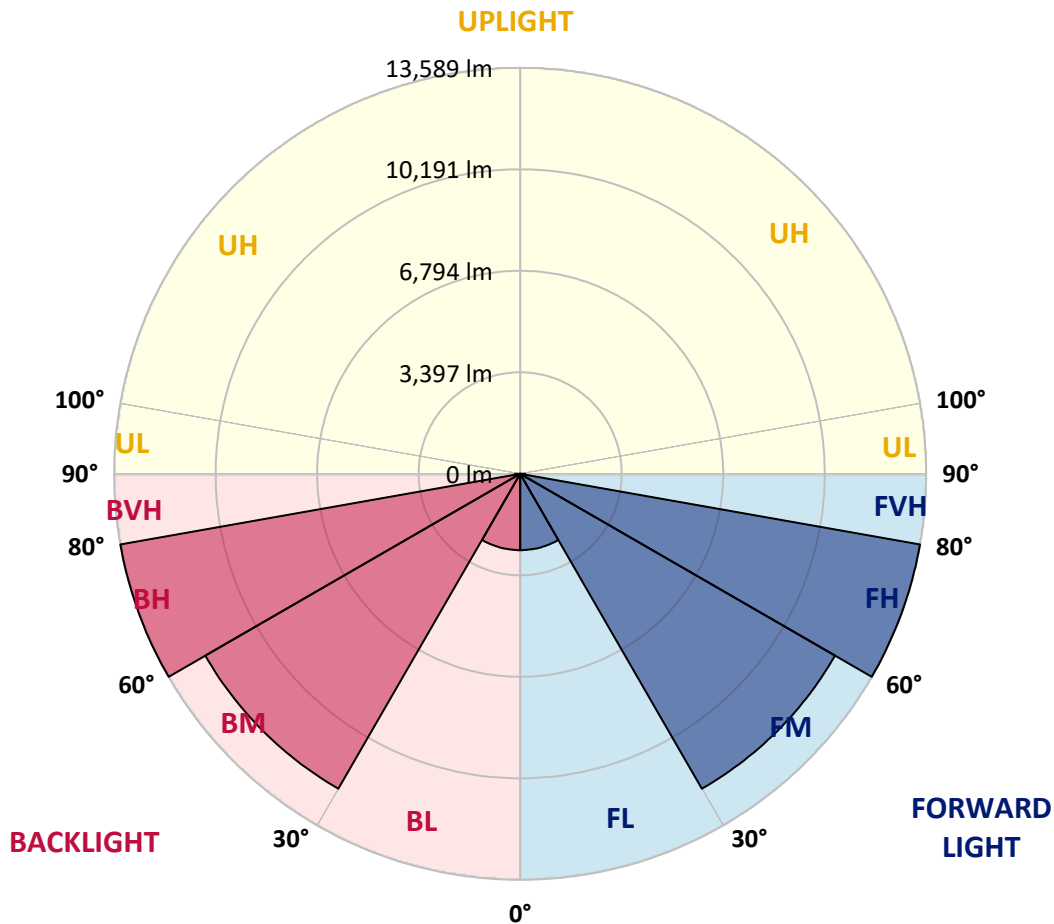
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2555.3	4.5			
FM (30°-60°)	12169.9	21.4			
FH (60°-80°)	13588.5	23.9			G5
FVH (80°-90°)	163.2	0.3			G2/225
BL (0°-30°)	2555.3	4.5	B4/5000		
BM (30°-60°)	12169.9	21.4	B5		
BH (60°-80°)	13588.5	23.9	B5		G5
BVH (80°-90°)	163.2	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°	5455.6	5455.6	5455.6	5455.6	5455.6	5455.6	5455.6	5455.6	5455.6	5455.6
2.5°	5481.3	5487.1	5475.6	5469.9	5464.2	5455.6	5458.5	5472.8	5484.2	5481.3
5°	5527.1	5532.8	5524.2	5521.4	5509.9	5507.1	5507.1	5521.4	5529.9	5524.2
7.5°	5578.6	5587.1	5572.8	5570.0	5564.3	5558.5	5555.7	5570.0	5578.6	5578.6
10°	5627.2	5635.7	5624.3	5615.7	5610.0	5610.0	5604.3	5615.7	5630.0	5627.2
12.5°	5678.6	5684.4	5672.9	5667.2	5667.2	5675.8	5667.2	5672.9	5684.4	5678.6
15°	5741.5	5744.4	5741.5	5750.1	5764.4	5793.0	5767.3	5761.6	5767.3	5753.0
17.5°	5827.3	5833.0	5844.5	5864.5	5884.5	5936.0	5890.2	5875.9	5875.9	5847.3
20°	5933.1	5941.7	5958.8	5993.2	6018.9	6067.5	6021.8	6001.7	5993.2	5956.0
22.5°	6044.6	6058.9	6084.7	6130.4	6176.2	6221.9	6176.2	6141.8	6116.1	6067.5
25°	6173.3	6190.5	6230.5	6304.8	6367.7	6433.5	6379.2	6310.5	6259.1	6190.5
27.5°	6356.3	6376.3	6424.9	6516.4	6596.5	6653.7	6602.2	6513.6	6442.1	6359.2
30°	6613.6	6633.6	6690.8	6788.1	6842.4	6879.6	6845.2	6776.6	6690.8	6596.5
32.5°	6945.3	6971.0	7034.0	7125.5	7136.9	7142.6	7131.2	7096.9	7034.0	6919.6
35°	7365.6	7394.2	7465.7	7540.1	7528.6	7540.1	7522.9	7511.5	7465.7	7334.2
37.5°	7880.3	7914.6	7989.0	8046.2	8017.6	8003.3	8006.1	8009.0	7983.3	7837.4
40°	8477.9	8523.7	8578.0	8638.0	8589.4	8546.5	8575.1	8598.0	8575.1	8426.4
42.5°	9092.7	9158.4	9215.6	9301.4	9261.4	9207.0	9247.1	9272.8	9224.2	9064.1
45°	9776.1	9839.0	9913.3	10042.0	10013.4	9956.2	10013.4	10019.1	9936.2	9747.5
47.5°	10482.3	10548.1	10659.6	10831.1	10819.7	10756.8	10831.1	10791.1	10685.3	10459.4
50°	11151.4	11242.9	11414.4	11654.6	11677.5	11600.3	11700.4	11623.2	11445.9	11162.8
52.5°	11780.4	11877.7	12149.3	12475.3	12558.2	12458.1	12592.5	12458.1	12192.2	11829.1
55°	12440.9	12549.6	12872.7	13298.7	13464.6	13390.2	13516.1	13313.0	12935.6	12495.3
57.5°	13218.7	13284.5	13670.5	14176.6	14456.8	14473.9	14531.1	14188.0	13730.5	13230.1
60°	14062.2	14153.7	14574.0	15180.2	15623.4	15766.4	15706.3	15197.3	14665.5	14090.8
62.5°	15143.0	15243.1	15746.3	16472.6	17173.1	17527.7	17293.2	16555.5	15897.9	15208.8
65°	16038.0	16149.5	17058.8	18354.0	19629.3	20341.3	19752.3	18394.1	17210.3	16238.1
67.5°	15388.9	15526.2	16953.0	19331.9	22502.9	24627.4	22611.6	19623.6	17304.7	15986.5
70°	13450.3	13579.0	15243.1	18151.0	23312.1	27967.1	23798.2	18685.7	15297.4	13822.0
72.5°	8929.7	9344.3	11028.4	14516.8	20815.9	25879.8	21021.8	14222.3	10230.7	8909.7
75°	2962.3	3293.9	4443.4	7525.8	13942.1	19354.8	13273.0	6659.4	3519.8	2533.4
77.5°	746.3	860.7	1186.6	2153.1	5561.4	11019.9	5006.7	1758.5	957.9	669.1
80°	363.1	400.3	571.9	717.7	1392.5	3502.7	1306.7	674.8	451.8	348.8
82.5°	200.2	203.0	323.1	406.0	517.5	906.4	537.6	394.6	260.2	211.6
85°	123.0	120.1	171.6	217.3	217.3	323.1	257.3	217.3	148.7	131.5
87.5°	48.6	48.6	62.9	68.6	60.0	82.9	65.8	71.5	57.2	54.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
5455.6
5484.2
5527.1
5578.6
5627.2
5675.8
5753.0
5847.3
5956.0
6064.6
6187.6
6356.3
6596.5
6922.4
7334.2
7837.4
8426.4
9075.5
9767.5
10445.1
11157.1
11794.7
12435.2
13161.5
13999.3
15088.7
16078.0
15789.2
13624.7
8620.9
2396.1
597.6
320.2
211.6
137.2
57.2
0.0

OF REPORT)