

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: P951764

Luminaire Tested: **GALN-SB5D-827-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951764  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5D-827-U-RW  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

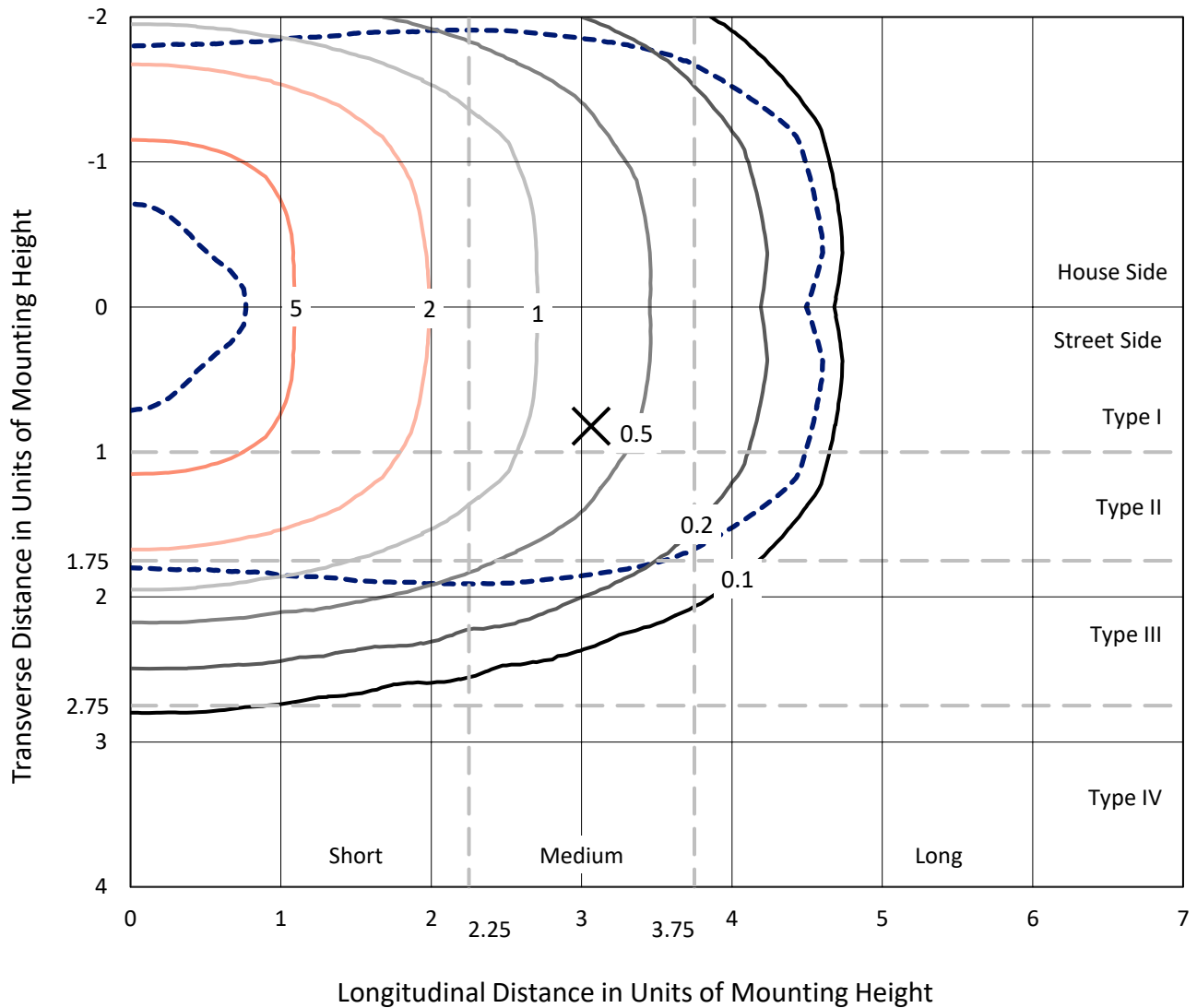
Lumens per Lamp: N/A  
Luminaire Lumens: 46029 lumens  
Efficiency: N/A  
Efficacy: 126.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): 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

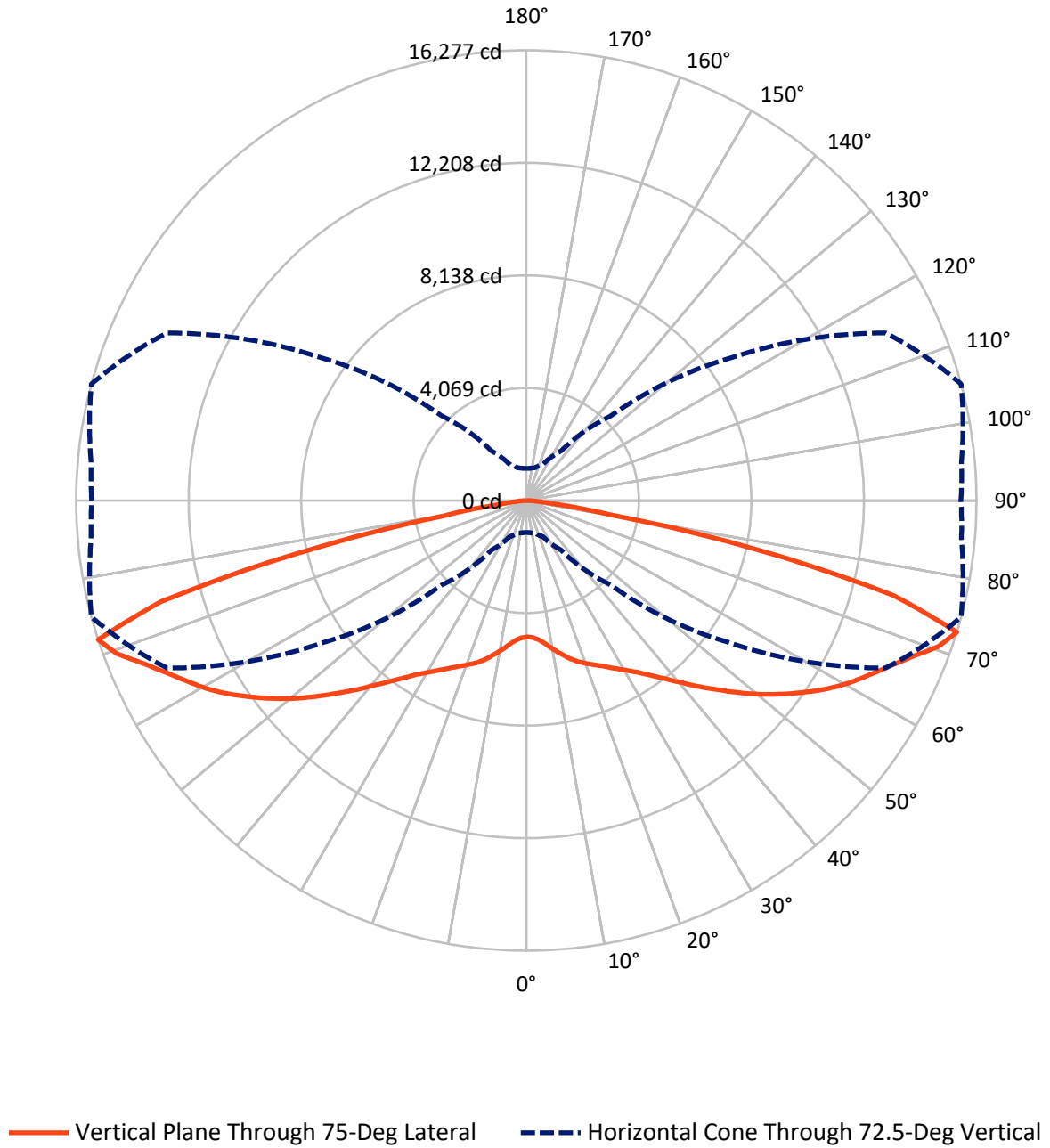
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	23014.5	0.0	23014.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	23014.5	0.0	23014.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	46029.0	0.0	46029.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	483.0	1.0
10°-20°	1593.0	3.5
20°-30°	3078.1	6.7
30°-40°	5197.6	11.3
40°-50°	8242.8	17.9
50°-60°	11036.2	24.0
60°-70°	10502.9	22.8
70°-80°	5480.6	11.9
80°-90°	414.9	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°	46029.0	100.0
0°-180°	46029.0	100.0

**Coefficient of Utilization**



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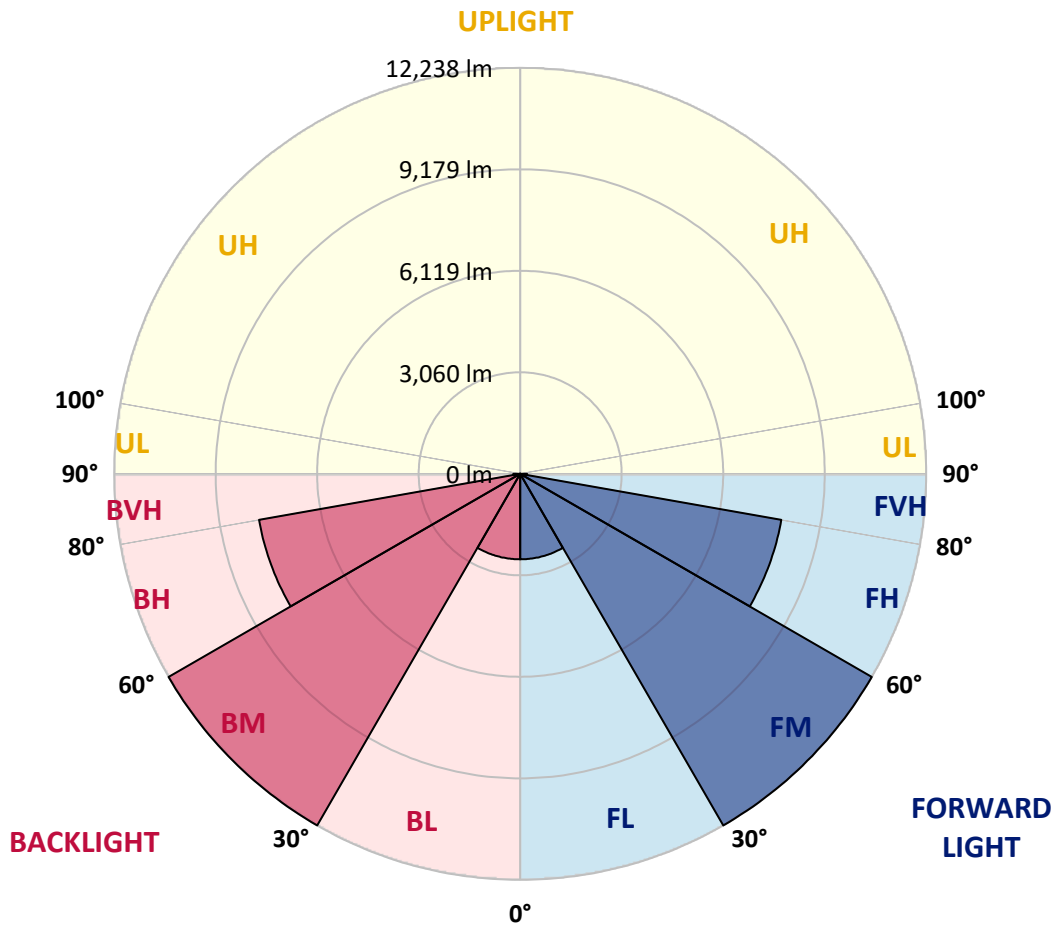
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2577.1	5.6			
FM (30°-60°)	12238.3	26.6			
FH (60°-80°)	7991.7	17.4			G4/12000
FVH (80°-90°)	207.4	0.5			G2/225
BL (0°-30°)	2577.1	5.6	B4/5000		
BM (30°-60°)	12238.3	26.6	B5		
BH (60°-80°)	7991.7	17.4	B5		G5
BVH (80°-90°)	207.4	0.5			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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4930.5	4930.5	4930.5	4930.5	4930.5	4930.5	4930.5	4930.5	4930.5	4930.5
2.5°	4930.5	4925.8	4930.5	4935.2	4932.9	4932.9	4944.6	4951.7	4965.8	4963.4
5°	4897.6	4895.3	4914.1	4935.2	4951.7	4979.9	5015.1	5041.0	5073.9	5080.9
7.5°	4881.2	4874.1	4907.0	4944.6	4996.3	5066.8	5135.0	5205.5	5261.9	5280.7
10°	4892.9	4895.3	4939.9	5010.4	5092.7	5191.4	5287.7	5407.6	5487.5	5506.3
12.5°	4947.0	4942.3	5017.5	5130.3	5243.1	5367.7	5480.5	5612.1	5699.0	5743.7
15°	5045.7	5036.3	5142.0	5308.9	5473.4	5619.1	5710.8	5835.3	5936.4	5992.8
17.5°	5163.2	5167.9	5306.5	5522.8	5739.0	5903.5	5990.4	6053.9	6131.4	6180.8
20°	5370.0	5379.4	5534.5	5790.7	6037.4	6225.4	6295.9	6272.4	6293.6	6331.2
22.5°	5647.3	5652.0	5825.9	6103.2	6361.7	6568.6	6615.6	6519.2	6460.5	6486.3
25°	5969.3	5999.8	6173.7	6458.1	6723.7	6921.1	6942.2	6796.5	6650.8	6657.9
27.5°	6361.7	6389.9	6566.2	6848.2	7118.5	7290.0	7287.7	7092.6	6878.8	6824.7
30°	6787.1	6817.7	6998.6	7290.0	7541.5	7691.9	7659.0	7426.3	7120.8	7019.8
32.5°	7292.4	7311.2	7494.5	7785.9	8018.6	8138.4	8070.3	7783.6	7402.8	7287.7
35°	7903.4	7931.6	8067.9	8342.9	8547.3	8646.1	8530.9	8192.5	7764.8	7635.5
37.5°	8601.4	8582.6	8737.7	8982.1	9151.3	9212.4	9055.0	8653.1	8178.4	8025.6
40°	9329.9	9320.5	9489.7	9724.8	9816.4	9854.0	9621.3	9181.9	8655.5	8490.9
42.5°	9990.3	9983.3	10211.2	10472.1	10582.5	10540.2	10246.5	9743.6	9207.7	9019.7
45°	10519.1	10509.7	10789.4	11156.0	11372.2	11301.7	10906.9	10364.0	9767.1	9572.0
47.5°	10925.7	10930.4	11231.2	11684.7	12063.1	12089.0	11581.3	10996.2	10382.8	10161.9
50°	11219.4	11233.5	11555.5	12058.4	12575.4	12803.4	12269.9	11644.8	11019.7	10770.6
52.5°	11292.3	11318.1	11705.9	12295.8	12904.5	13339.2	12970.3	12267.6	11623.6	11386.3
55°	10904.5	10956.2	11447.4	12277.0	13106.6	13691.7	13586.0	12899.8	12232.3	11987.9
57.5°	10013.8	10086.7	10660.1	11743.5	13061.9	13933.8	14063.1	13506.1	12841.0	12606.0
60°	8765.9	8852.9	9402.8	10584.9	12432.1	14023.1	14399.1	14096.0	13400.3	13172.4
62.5°	6883.5	6996.3	7654.3	9040.9	11101.9	13607.1	14685.8	14629.4	13903.2	13618.9
65°	4415.9	4535.7	5229.0	6867.0	9327.6	12333.4	14775.1	15148.8	14434.4	14037.2
67.5°	2662.7	2716.7	3059.8	4162.0	6817.7	10413.3	14018.4	15724.6	15054.8	14561.3
70°	1703.8	1734.4	1938.8	2444.1	3854.2	7597.9	12143.0	15832.7	15806.8	15099.5
72.5°	1156.3	1165.7	1219.7	1447.7	2180.9	4317.2	8956.3	14333.3	16276.9	15792.7
75°	846.0	897.7	984.7	1024.6	1238.5	2157.4	5132.6	10070.2	13717.6	13929.1
77.5°	629.8	632.2	752.0	799.0	883.6	1149.2	2171.5	5621.5	8516.8	8942.2
80°	533.5	505.3	502.9	643.9	665.1	716.8	970.6	1941.2	3050.4	1849.5
82.5°	444.2	413.6	373.7	502.9	453.6	439.5	420.7	789.6	970.6	477.1
85°	310.2	296.1	282.0	329.0	258.5	220.9	202.1	369.0	408.9	202.1
87.5°	134.0	138.7	141.0	145.7	108.1	77.6	77.6	103.4	103.4	79.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4930.5
4961.1
5080.9
5285.4
5525.1
5762.5
6013.9
6204.3
6359.4
6505.1
6669.6
6841.2
7031.5
7315.9
7654.3
8053.8
8545.0
9066.7
9616.6
10227.7
10845.8
11447.4
12056.1
12660.0
13221.7
13651.8
14086.6
14598.9
15094.8
15717.5
13416.8
7976.3
1398.3
406.6
178.6
58.8
0.0

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