

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: P944400

Luminaire Tested: **GALN-SB9B-830-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944400  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9B-830-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

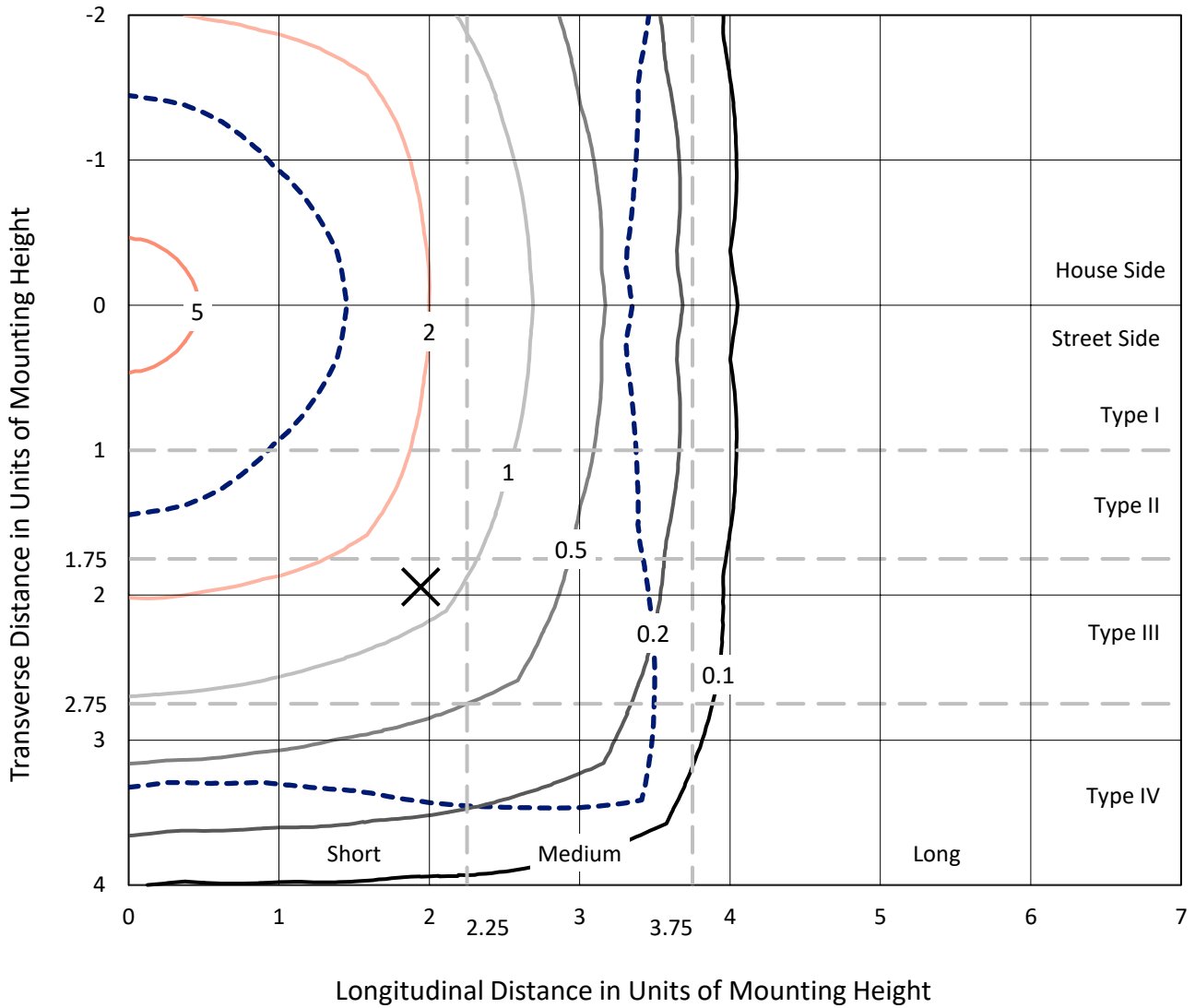
Lumens per Lamp: N/A  
Luminaire Lumens: 46617 lumens  
Efficiency: N/A  
Efficacy: 141.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

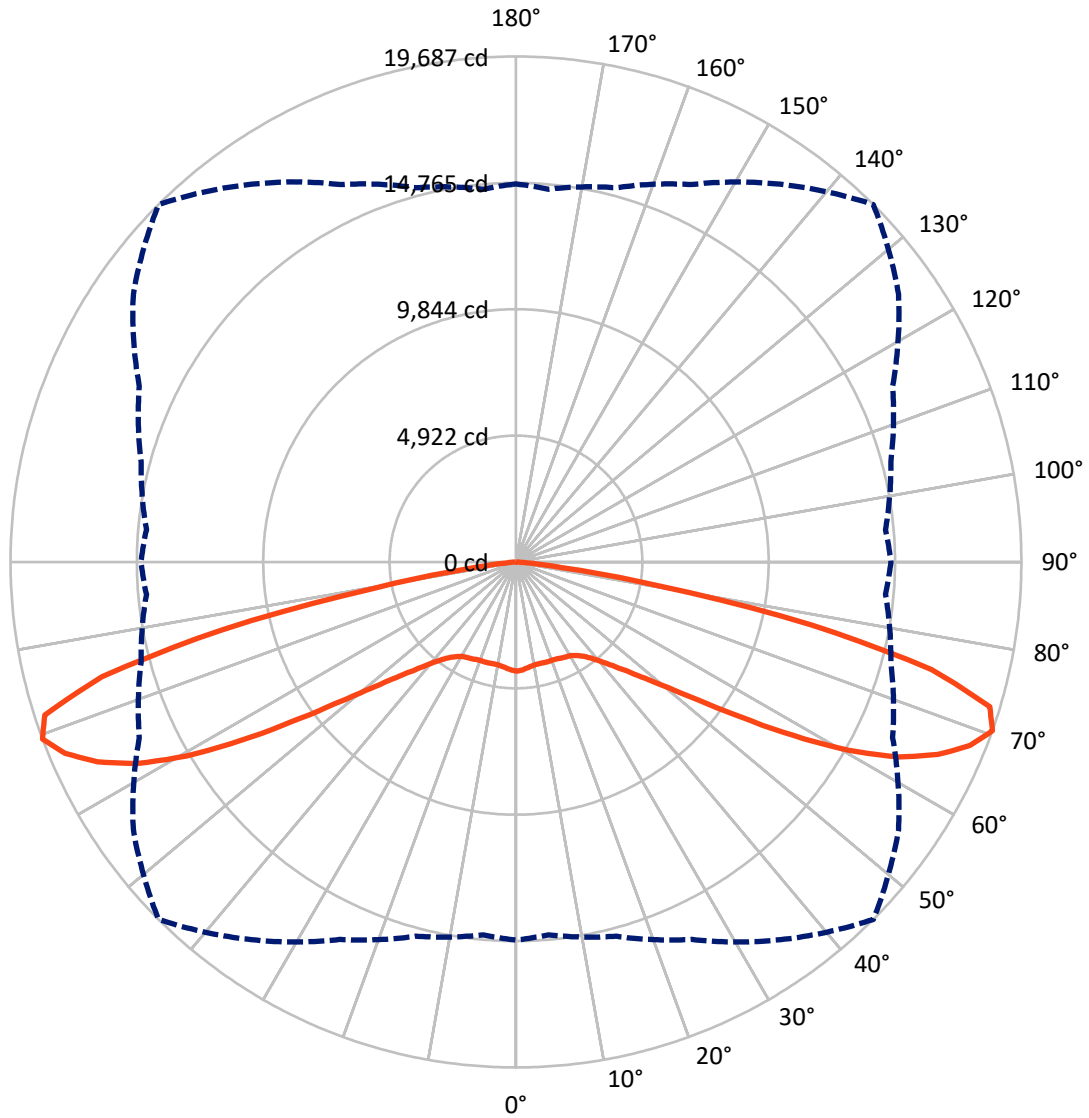
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	23308.5	0.0	23308.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	23308.5	0.0	23308.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	46617.0	0.0	46617.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	395.6	0.8
10°-20°	1161.5	2.5
20°-30°	1932.9	4.1
30°-40°	2923.1	6.3
40°-50°	4857.6	10.4
50°-60°	9166.1	19.7
60°-70°	15477.3	33.2
70°-80°	10170.2	21.8
80°-90°	532.8	1.1
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°	46617.0	100.0
0°-180°	46617.0	100.0

**Coefficient of Utilization**



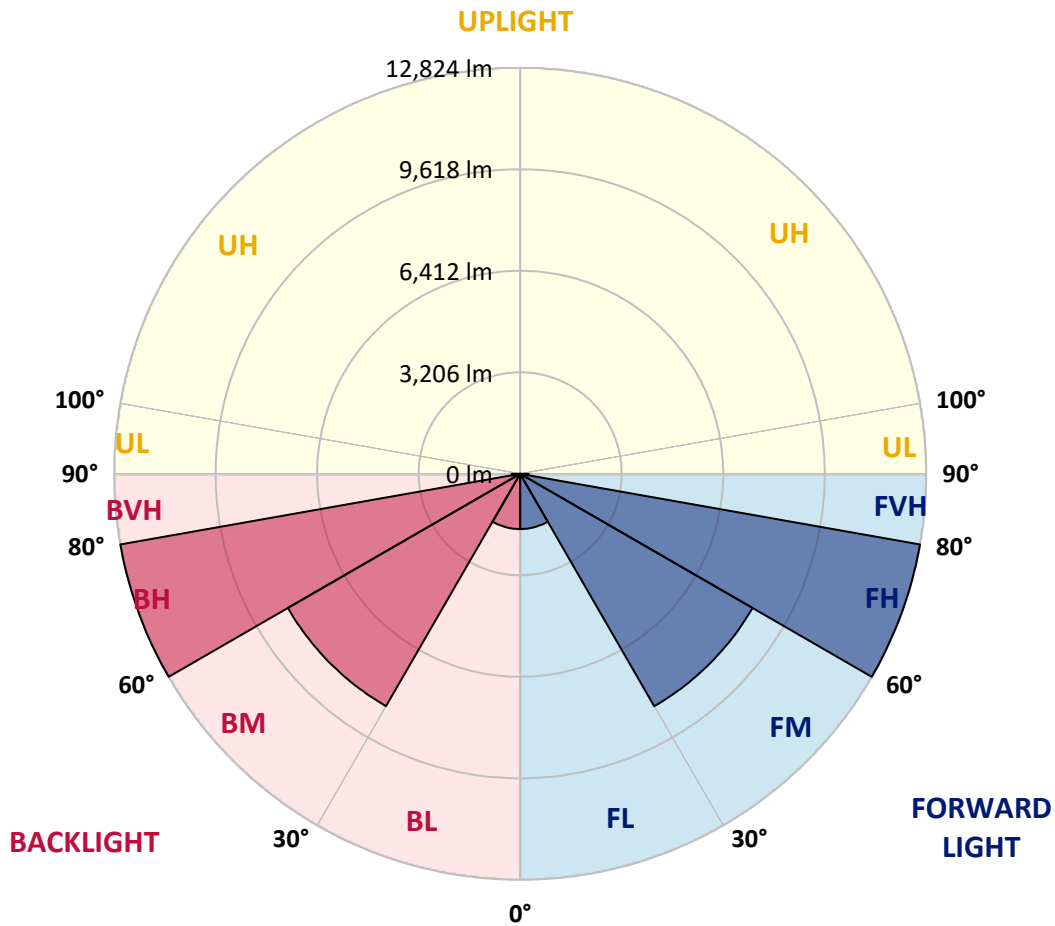
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1745.0	3.7			
FM (30°-60°)	8473.4	18.2			
FH (60°-80°)	12823.7	27.5			G5
FVH (80°-90°)	266.4	0.6			G3/500
BL (0°-30°)	1745.0	3.7	B3/2500		
BM (30°-60°)	8473.4	18.2	B4/8500		
BH (60°-80°)	12823.7	27.5	B5		G5
BVH (80°-90°)	266.4	0.6			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°	4252.4	4252.4	4252.4	4252.4	4252.4	4252.4	4252.4	4252.4	4252.4	4252.4
2.5°	4225.8	4237.9	4233.0	4223.3	4223.3	4216.1	4223.3	4228.2	4235.4	4240.3
5°	4170.0	4179.7	4177.3	4170.0	4172.4	4165.2	4170.0	4177.3	4182.1	4184.6
7.5°	4121.6	4131.3	4126.4	4114.3	4114.3	4107.0	4109.5	4116.7	4124.0	4126.4
10°	4109.5	4119.1	4104.6	4085.2	4078.0	4068.3	4070.7	4078.0	4092.5	4099.8
12.5°	4114.3	4121.6	4107.0	4078.0	4070.7	4061.0	4061.0	4068.3	4087.6	4097.3
15°	4128.8	4136.1	4114.3	4082.8	4075.5	4068.3	4065.8	4075.5	4097.3	4114.3
17.5°	4155.5	4162.8	4128.8	4085.2	4075.5	4078.0	4075.5	4082.8	4116.7	4148.2
20°	4179.7	4184.6	4138.5	4085.2	4075.5	4078.0	4075.5	4090.1	4133.7	4177.3
22.5°	4187.0	4191.8	4148.2	4102.2	4094.9	4097.3	4094.9	4109.5	4150.6	4194.3
25°	4189.4	4196.7	4162.8	4126.4	4138.5	4143.4	4138.5	4140.9	4172.4	4211.2
27.5°	4225.8	4235.4	4203.9	4172.4	4179.7	4177.3	4184.6	4191.8	4216.1	4254.8
30°	4300.9	4308.1	4281.5	4250.0	4245.1	4228.2	4250.0	4274.2	4300.9	4334.8
32.5°	4424.4	4439.0	4405.1	4371.1	4349.3	4339.6	4356.6	4397.8	4434.1	4470.5
35°	4630.4	4640.1	4608.6	4545.6	4506.8	4506.8	4521.4	4574.7	4632.8	4678.9
37.5°	4921.2	4933.3	4877.5	4802.4	4744.3	4744.3	4763.7	4819.4	4906.6	4972.0
40°	5274.9	5291.9	5221.6	5144.1	5088.4	5078.7	5102.9	5165.9	5248.3	5330.7
42.5°	5701.4	5720.8	5628.7	5560.8	5517.2	5517.2	5529.3	5587.5	5662.6	5764.4
45°	6246.6	6280.5	6154.5	6086.6	6045.4	6055.1	6062.4	6113.3	6181.1	6297.4
47.5°	6895.9	6929.9	6796.6	6726.3	6719.0	6765.1	6736.0	6772.4	6808.7	6942.0
50°	7632.5	7690.7	7598.6	7593.8	7608.3	7693.1	7625.3	7644.6	7603.5	7688.3
52.5°	8533.9	8618.7	8601.7	8630.8	8793.2	8967.6	8812.5	8744.7	8589.6	8616.3
55°	9626.7	9755.1	9779.3	9953.8	10322.1	10678.3	10348.7	10074.9	9745.4	9684.8
57.5°	10869.7	10971.5	11087.8	11443.9	12132.1	12764.5	12132.1	11526.3	11007.8	10884.2
60°	12207.2	12333.2	12444.7	12970.5	13993.0	14882.2	13973.6	13011.6	12325.9	12158.7
62.5°	13644.1	13806.4	13883.9	14467.9	15660.0	16721.3	15677.0	14511.5	13750.7	13571.4
65°	15022.8	15156.0	15243.3	15866.0	17004.8	18068.5	17082.3	15933.8	15151.2	14916.1
67.5°	15664.9	15737.5	15950.8	16655.9	17857.7	19071.6	18061.2	16731.0	15856.3	15444.4
70°	14724.7	14576.9	15090.6	16219.7	17959.5	19687.1	18192.1	16185.8	15114.8	14446.1
72.5°	11378.5	11124.1	12015.8	13946.9	16796.4	19294.5	16912.7	14056.0	12570.7	11213.8
75°	6190.8	5902.5	7133.4	9575.8	13394.5	16723.7	13702.2	9849.6	7942.7	6144.8
77.5°	1747.0	1638.0	2631.4	4632.8	8056.6	11742.0	8366.7	4734.6	3120.9	1851.2
80°	535.5	518.5	702.7	1395.7	3421.3	5623.8	3288.0	1412.6	894.1	564.6
82.5°	317.4	290.8	348.9	508.8	872.3	1766.4	848.1	530.6	426.5	285.9
85°	181.7	169.6	206.0	247.1	293.2	375.6	244.7	252.0	227.8	152.7
87.5°	75.1	67.8	80.0	77.5	67.8	87.2	65.4	77.5	92.1	60.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4252.4
4237.9
4184.6
4126.4
4099.8
4099.8
4116.7
4148.2
4179.7
4194.3
4208.8
4245.1
4327.5
4455.9
4661.9
4947.8
5304.0
5757.1
6292.6
6903.2
7637.4
8526.6
9590.3
10797.0
12013.4
13426.0
14799.8
15449.2
14606.0
11550.6
6544.6
2057.1
596.1
310.1
159.9
55.7
0.0

OF REPORT)