

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: P956422

Luminaire Tested: **GALN-SB9A-830-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956422  
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-SB9A-830-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

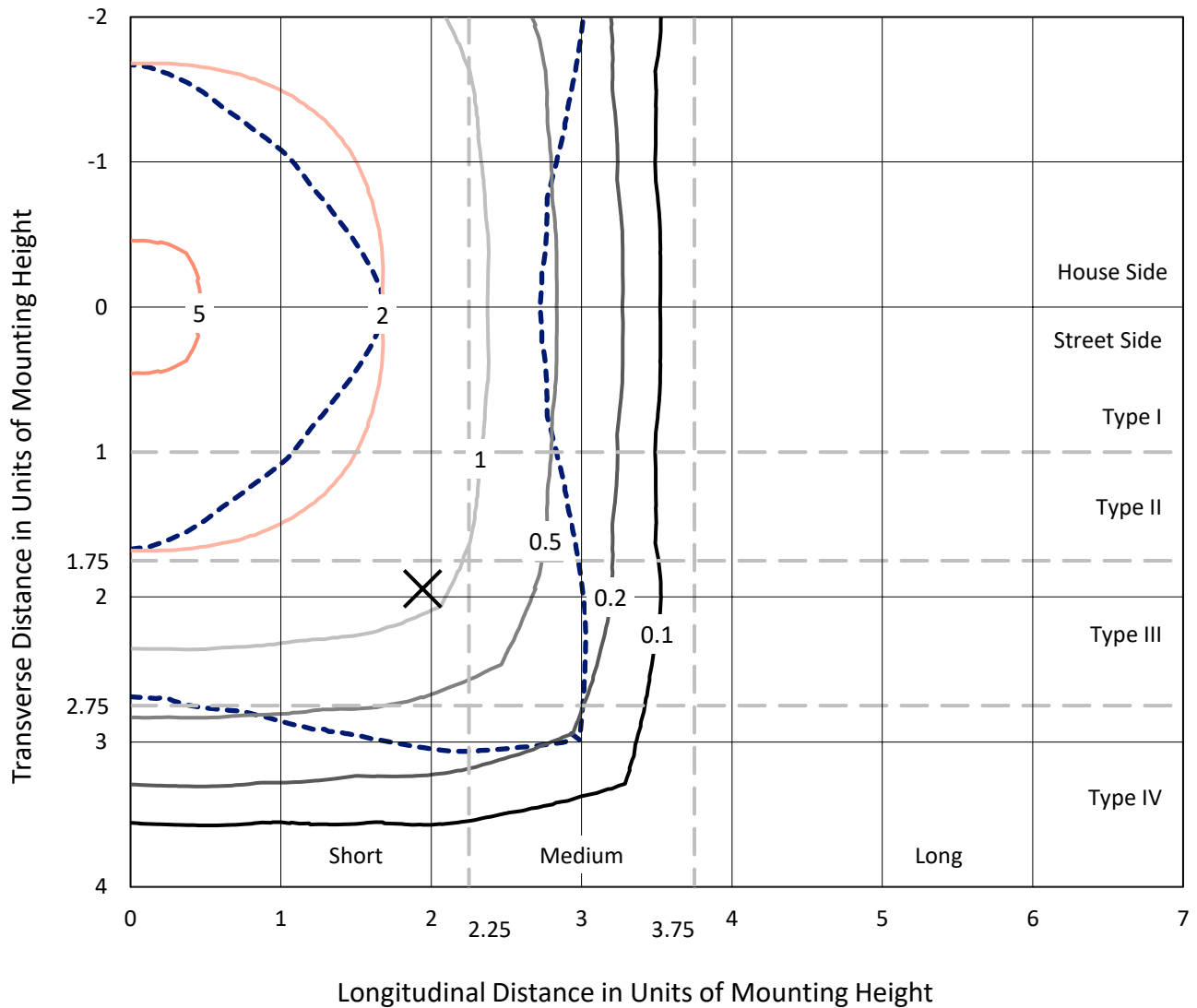
Lumens per Lamp: N/A  
Luminaire Lumens: 38448 lumens  
Efficiency: N/A  
Efficacy: 150.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

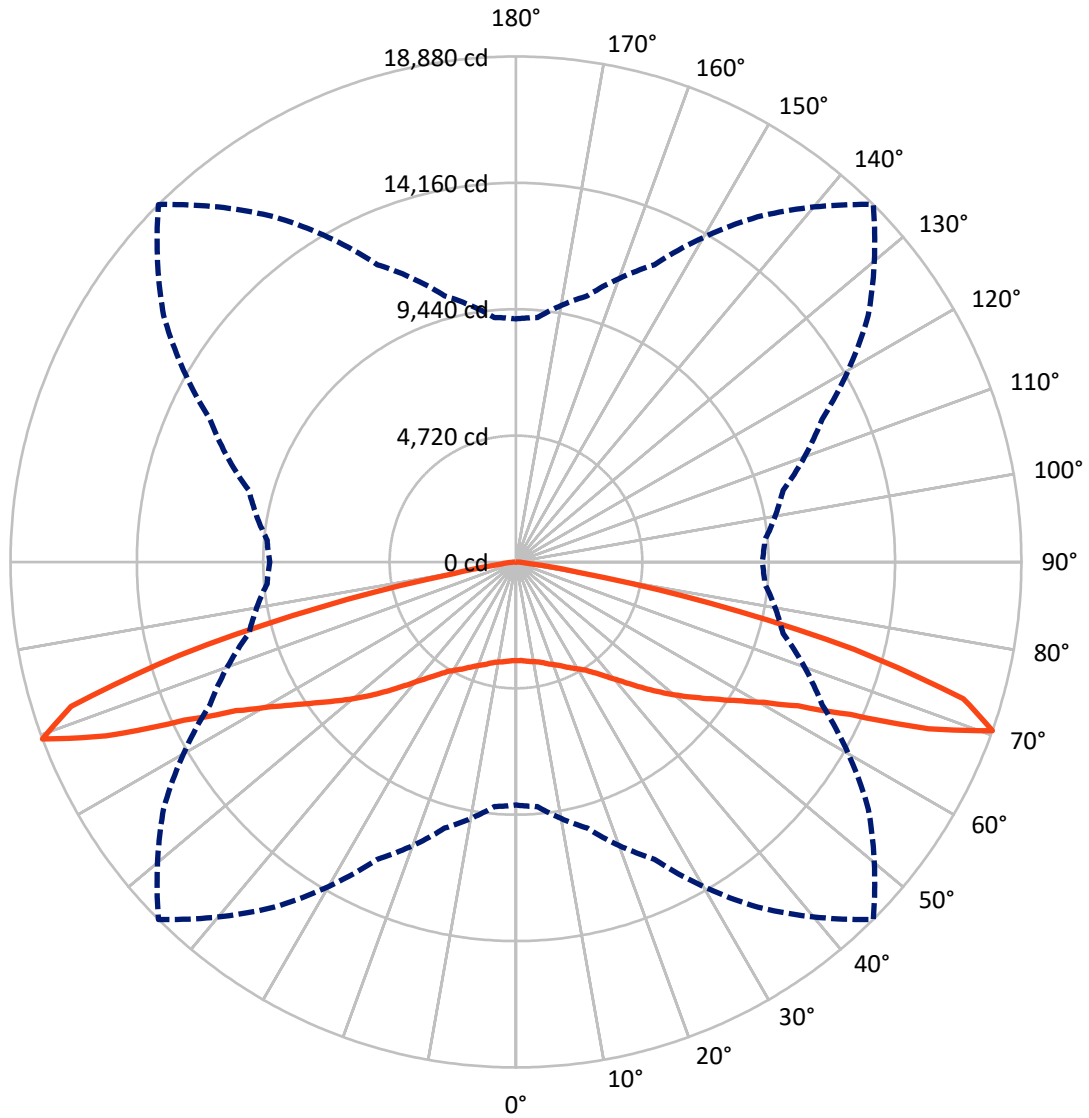
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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
<b>House Side</b>	Lumens	19224.0	0.0	19224.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	19224.0	0.0	19224.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	38448.0	0.0	38448.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	357.8	0.9
10°-20°	1109.5	2.9
20°-30°	1982.8	5.2
30°-40°	3214.1	8.4
40°-50°	5235.2	13.6
50°-60°	7981.9	20.8
60°-70°	11874.5	30.9
70°-80°	6472.0	16.8
80°-90°	220.4	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°	38448.0	100.0
0°-180°	38448.0	100.0

**Coefficient of Utilization**



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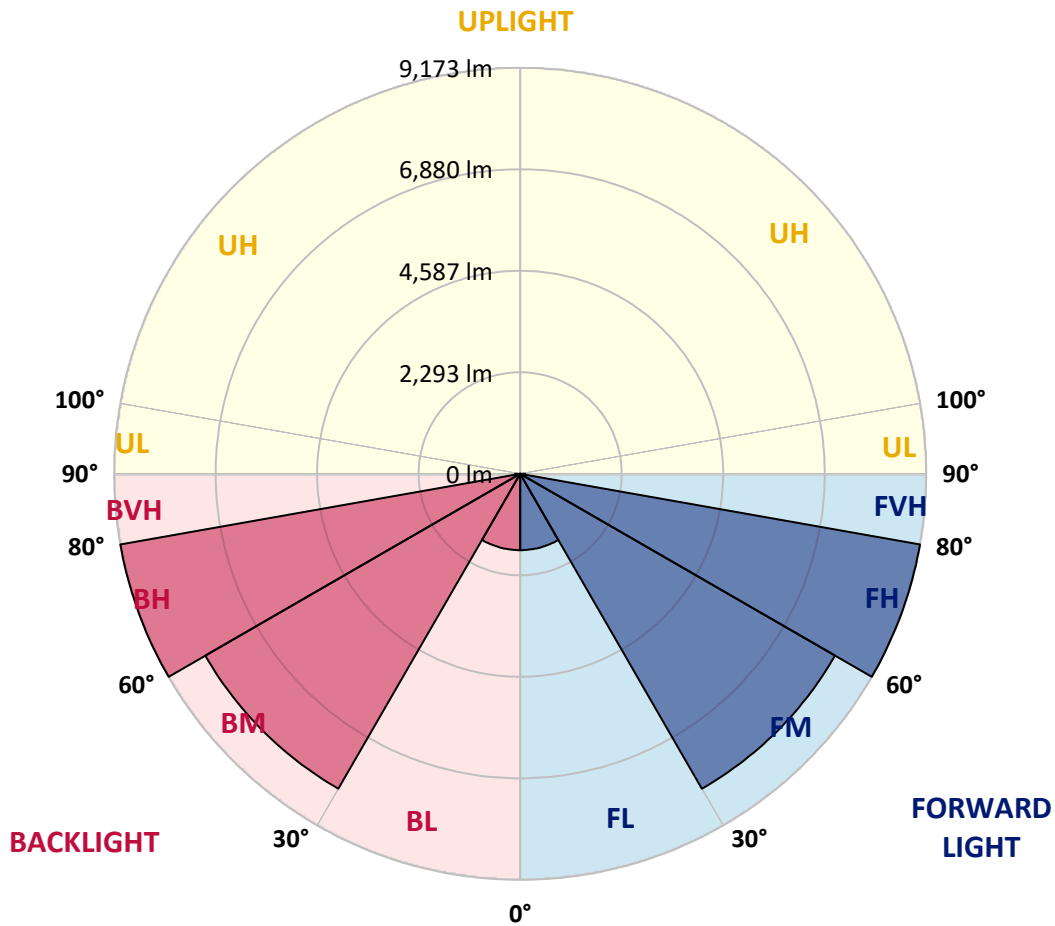
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1725.0	4.5			
FM (30°-60°)	8215.6	21.4			
FH (60°-80°)	9173.2	23.9			G4/12000
FVH (80°-90°)	110.2	0.3			G2/225
BL (0°-30°)	1725.0	4.5	B3/2500		
BM (30°-60°)	8215.6	21.4	B4/8500		
BH (60°-80°)	9173.2	23.9	B5		G4/12000
BVH (80°-90°)	110.2	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-G4**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3682.9	3682.9	3682.9	3682.9	3682.9	3682.9	3682.9	3682.9	3682.9	3682.9
2.5°	3700.3	3704.2	3696.4	3692.6	3688.7	3682.9	3684.9	3694.5	3702.2	3700.3
5°	3731.2	3735.0	3729.2	3727.3	3719.6	3717.7	3717.7	3727.3	3733.1	3729.2
7.5°	3765.9	3771.7	3762.1	3760.1	3756.3	3752.4	3750.5	3760.1	3765.9	3765.9
10°	3798.7	3804.5	3796.8	3791.0	3787.2	3787.2	3783.3	3791.0	3800.7	3798.7
12.5°	3833.5	3837.3	3829.6	3825.8	3825.8	3831.5	3825.8	3829.6	3837.3	3833.5
15°	3875.9	3877.9	3875.9	3881.7	3891.4	3910.7	3893.3	3889.5	3893.3	3883.7
17.5°	3933.9	3937.7	3945.4	3958.9	3972.5	4007.2	3976.3	3966.7	3966.7	3947.4
20°	4005.3	4011.1	4022.6	4045.8	4063.2	4096.0	4065.1	4051.6	4045.8	4020.7
22.5°	4080.6	4090.2	4107.6	4138.5	4169.3	4200.2	4169.3	4146.2	4128.8	4096.0
25°	4167.4	4179.0	4206.0	4256.2	4298.7	4343.1	4306.4	4260.1	4225.3	4179.0
27.5°	4290.9	4304.5	4337.3	4399.0	4453.1	4491.7	4457.0	4397.1	4348.9	4292.9
30°	4464.7	4478.2	4516.8	4582.4	4619.1	4644.2	4621.0	4574.7	4516.8	4453.1
32.5°	4688.6	4706.0	4748.4	4810.2	4817.9	4821.8	4814.0	4790.9	4748.4	4671.2
35°	4972.3	4991.6	5039.9	5090.1	5082.4	5090.1	5078.5	5070.8	5039.9	4951.1
37.5°	5319.8	5342.9	5393.1	5431.7	5412.4	5402.8	5404.7	5406.6	5389.3	5290.8
40°	5723.2	5754.1	5790.8	5831.3	5798.5	5769.5	5788.8	5804.3	5788.8	5688.5
42.5°	6138.2	6182.6	6221.2	6279.1	6252.1	6215.4	6242.4	6259.8	6227.0	6118.9
45°	6599.5	6642.0	6692.2	6779.0	6759.7	6721.1	6759.7	6763.6	6707.6	6580.2
47.5°	7076.3	7120.7	7196.0	7311.8	7304.1	7261.6	7311.8	7284.8	7213.4	7060.9
50°	7528.0	7589.8	7705.6	7867.7	7883.1	7831.0	7898.6	7846.5	7726.8	7535.7
52.5°	7952.6	8018.3	8201.6	8421.7	8477.7	8410.1	8500.8	8410.1	8230.6	7985.5
55°	8398.5	8471.9	8690.0	8977.6	9089.6	9039.4	9124.3	8987.3	8732.5	8435.2
57.5°	8923.6	8967.9	9228.5	9570.2	9759.4	9770.9	9809.5	9577.9	9269.1	8931.3
60°	9493.0	9554.7	9838.5	10247.7	10546.9	10643.4	10602.9	10259.3	9900.3	9512.3
62.5°	10222.6	10290.2	10629.9	11120.2	11593.1	11832.4	11674.2	11176.2	10732.2	10267.0
65°	10826.8	10902.1	11515.9	12390.3	13251.2	13731.8	13334.2	12417.3	11618.2	10961.9
67.5°	10388.6	10481.3	11444.5	13050.4	15191.1	16625.3	15264.4	13247.3	11681.9	10792.0
70°	9079.9	9166.8	10290.2	12253.2	15737.3	18879.8	16065.5	12614.2	10326.8	9330.8
72.5°	6028.2	6308.1	7445.0	9799.9	14052.2	17470.7	14191.2	9601.1	6906.4	6014.7
75°	1999.7	2223.7	2999.6	5080.4	9411.9	13065.9	8960.2	4495.6	2376.1	1710.2
77.5°	503.8	581.0	801.1	1453.5	3754.3	7439.2	3379.9	1187.1	646.6	451.7
80°	245.1	270.2	386.1	484.5	940.0	2364.6	882.1	455.5	305.0	235.5
82.5°	135.1	137.0	218.1	274.1	349.4	611.9	362.9	266.4	175.7	142.8
85°	83.0	81.1	115.8	146.7	146.7	218.1	173.7	146.7	100.4	88.8
87.5°	32.8	32.8	42.5	46.3	40.5	56.0	44.4	48.3	38.6	36.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3682.9
3702.2
3731.2
3765.9
3798.7
3831.5
3883.7
3947.4
4020.7
4094.1
4177.1
4290.9
4453.1
4673.1
4951.1
5290.8
5688.5
6126.6
6593.7
7051.2
7531.8
7962.3
8394.7
8884.9
9450.5
10185.9
10853.8
10658.9
9197.6
5819.7
1617.6
403.4
216.2
142.8
92.7
38.6
0.0

OF REPORT)