

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: P950353

Luminaire Tested: **GALN-SB4D-830-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950353  
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-SB4D-830-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

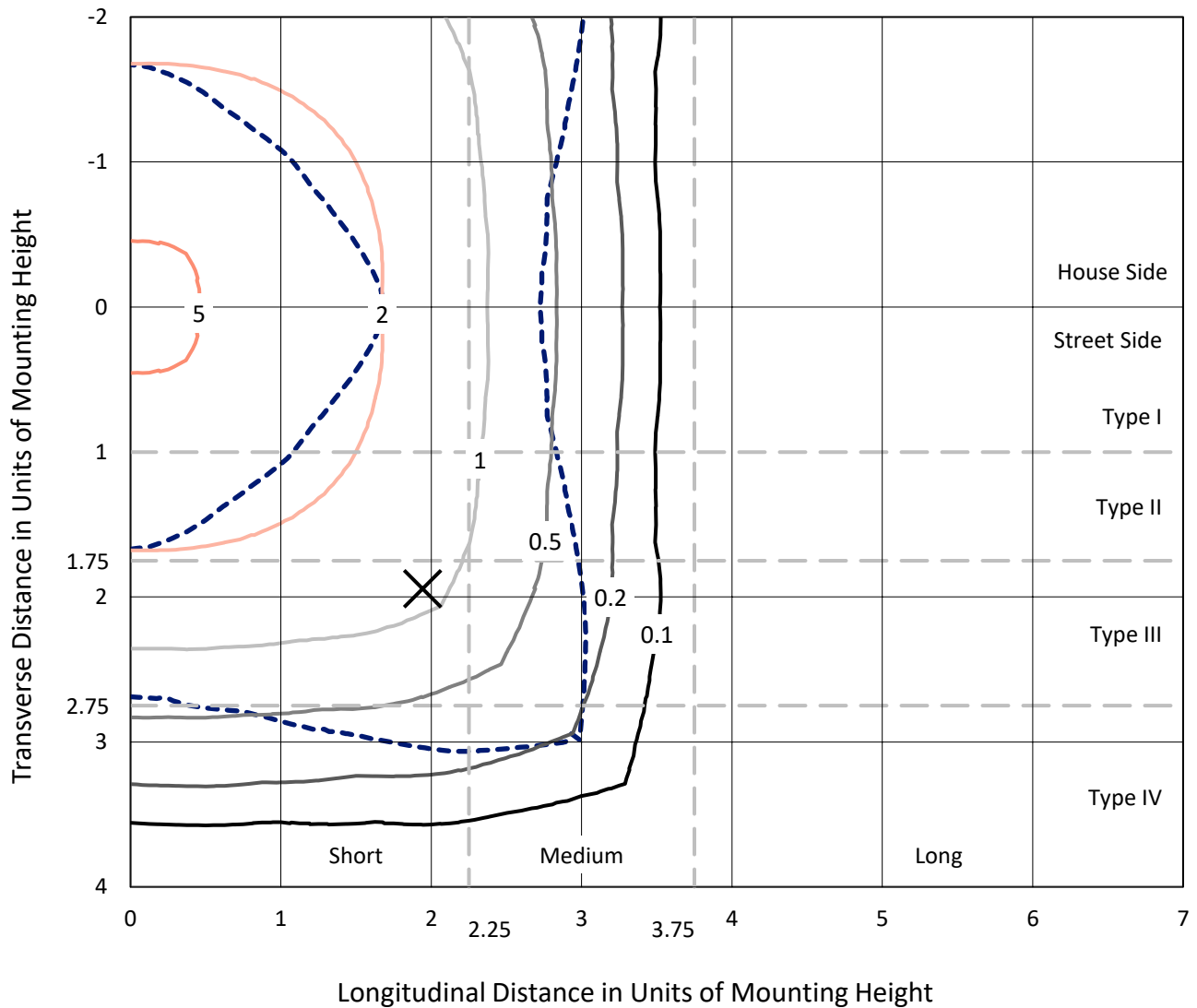
Lumens per Lamp: N/A  
Luminaire Lumens: 38378 lumens  
Efficiency: N/A  
Efficacy: 130.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

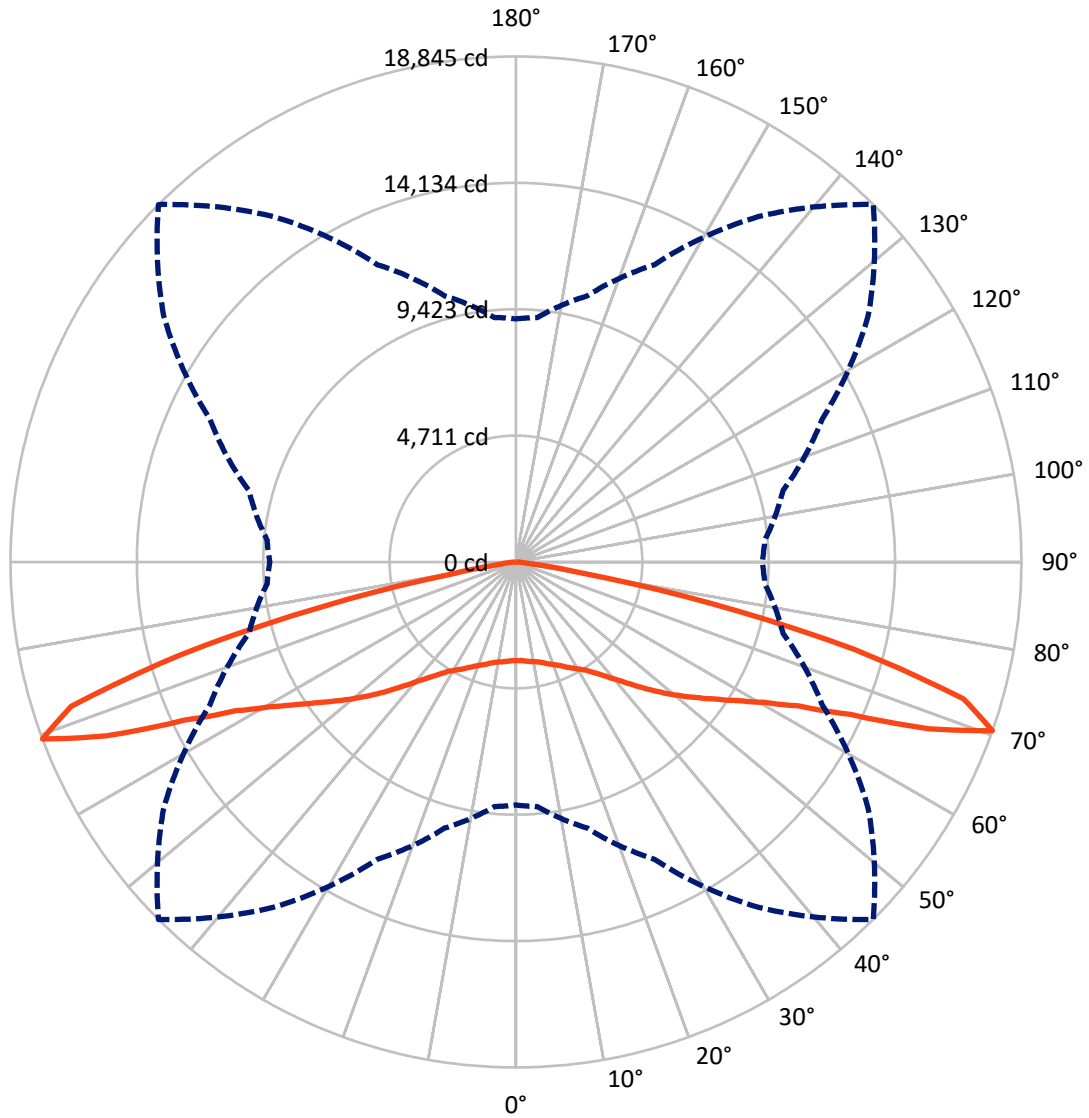
✕ Max cd  
 - - - 1/2 Max cd



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	19189.0	0.0	19189.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	19189.0	0.0	19189.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	38378.0	0.0	38378.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	357.1	0.9
10°-20°	1107.5	2.9
20°-30°	1979.2	5.2
30°-40°	3208.2	8.4
40°-50°	5225.6	13.6
50°-60°	7967.3	20.8
60°-70°	11852.8	30.9
70°-80°	6460.2	16.8
80°-90°	220.0	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°	38378.0	100.0
0°-180°	38378.0	100.0

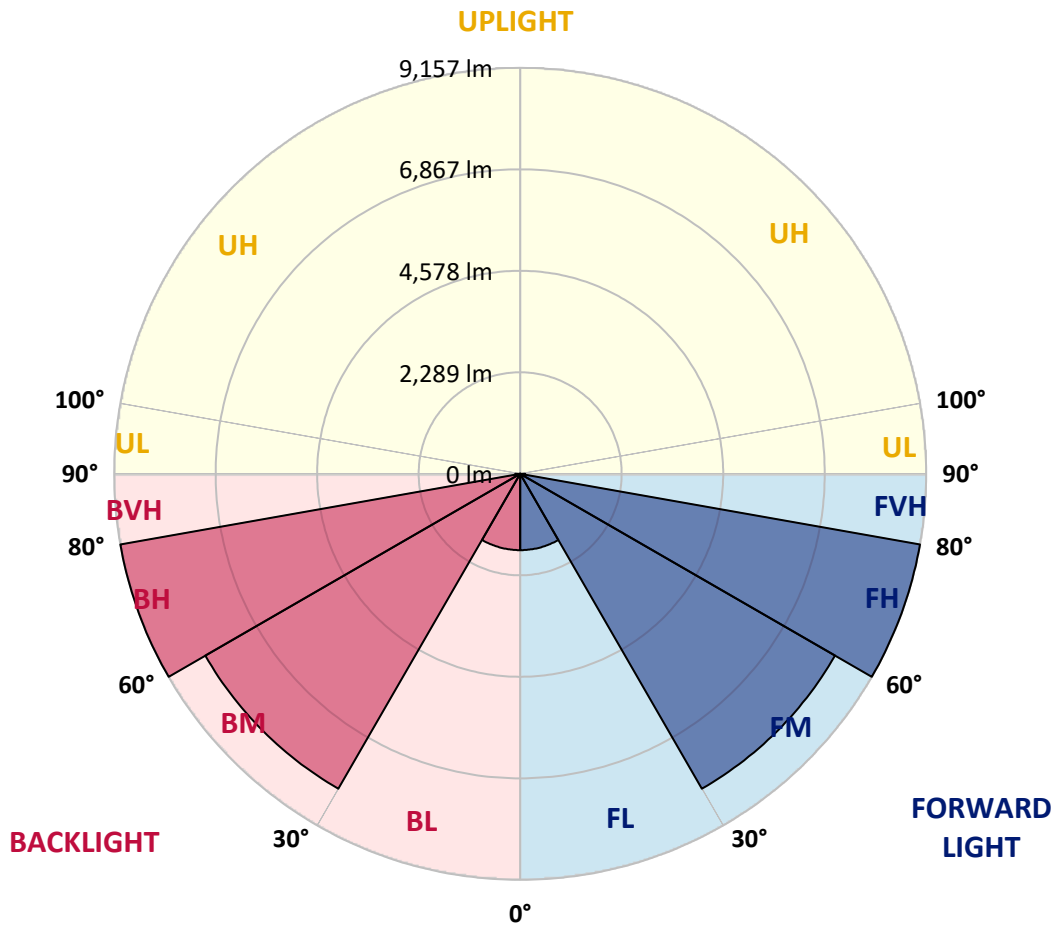


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1721.9	4.5			
FM (30°-60°)	8200.6	21.4			
FH (60°-80°)	9156.5	23.9			G4/12000
FVH (80°-90°)	110.0	0.3			G2/225
BL (0°-30°)	1721.9	4.5	B3/2500		
BM (30°-60°)	8200.6	21.4	B4/8500		
BH (60°-80°)	9156.5	23.9	B5		G4/12000
BVH (80°-90°)	110.0	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°	3676.2	3676.2	3676.2	3676.2	3676.2	3676.2	3676.2	3676.2	3676.2	3676.2
2.5°	3693.6	3697.4	3689.7	3685.8	3682.0	3676.2	3678.1	3687.8	3695.5	3693.6
5°	3724.4	3728.2	3722.5	3720.5	3712.8	3710.9	3710.9	3720.5	3726.3	3722.5
7.5°	3759.1	3764.8	3755.2	3753.3	3749.4	3745.6	3743.7	3753.3	3759.1	3759.1
10°	3791.8	3797.6	3789.9	3784.1	3780.3	3780.3	3776.4	3784.1	3793.7	3791.8
12.5°	3826.5	3830.4	3822.6	3818.8	3818.8	3824.6	3818.8	3822.6	3830.4	3826.5
15°	3868.9	3870.8	3868.9	3874.7	3884.3	3903.6	3886.2	3882.4	3886.2	3876.6
17.5°	3926.7	3930.5	3938.3	3951.7	3965.2	3999.9	3969.1	3959.4	3959.4	3940.2
20°	3998.0	4003.8	4015.3	4038.4	4055.8	4088.5	4057.7	4044.2	4038.4	4013.4
22.5°	4073.1	4082.8	4100.1	4130.9	4161.8	4192.6	4161.8	4138.6	4121.3	4088.5
25°	4159.8	4171.4	4198.4	4248.5	4290.8	4335.2	4298.6	4252.3	4217.6	4171.4
27.5°	4283.1	4296.6	4329.4	4391.0	4445.0	4483.5	4448.8	4389.1	4340.9	4285.1
30°	4456.5	4470.0	4508.6	4574.1	4610.7	4635.7	4612.6	4566.4	4508.6	4445.0
32.5°	4680.0	4697.4	4739.8	4801.4	4809.1	4813.0	4805.3	4782.2	4739.8	4662.7
35°	4963.3	4982.5	5030.7	5080.8	5073.1	5080.8	5069.2	5061.5	5030.7	4942.1
37.5°	5310.1	5333.2	5383.3	5421.8	5402.6	5392.9	5394.9	5396.8	5379.5	5281.2
40°	5712.8	5743.6	5780.2	5820.7	5787.9	5759.0	5778.3	5793.7	5778.3	5678.1
42.5°	6127.0	6171.3	6209.9	6267.7	6240.7	6204.1	6231.1	6248.4	6215.7	6107.8
45°	6587.5	6629.9	6680.0	6766.7	6747.4	6708.9	6747.4	6751.3	6695.4	6568.2
47.5°	7063.4	7107.7	7182.9	7298.5	7290.8	7248.4	7298.5	7271.5	7200.2	7048.0
50°	7514.3	7575.9	7691.5	7853.4	7868.8	7816.8	7884.2	7832.2	7712.7	7522.0
52.5°	7938.2	8003.7	8186.7	8406.4	8462.2	8394.8	8485.4	8394.8	8215.6	7970.9
55°	8383.2	8456.5	8674.2	8961.3	9073.0	9022.9	9107.7	8970.9	8716.6	8419.8
57.5°	8907.3	8951.6	9211.7	9552.8	9741.6	9753.1	9791.7	9560.5	9252.2	8915.0
60°	9475.7	9537.4	9820.6	10229.0	10527.7	10624.0	10583.6	10240.6	9882.2	9495.0
62.5°	10204.0	10271.4	10610.5	11099.9	11572.0	11810.9	11652.9	11155.8	10712.7	10248.3
65°	10807.1	10882.2	11494.9	12367.7	13227.1	13706.8	13309.9	12394.7	11597.0	10941.9
67.5°	10369.7	10462.2	11423.6	13026.7	15163.4	16595.0	15236.6	13223.2	11660.6	10772.4
70°	9063.4	9150.1	10271.4	12230.9	15708.7	18845.4	16036.2	12591.2	10308.0	9313.8
72.5°	6017.2	6296.6	7431.4	9782.0	14026.6	17438.9	14165.4	9583.6	6893.9	6003.7
75°	1996.1	2219.6	2994.2	5071.2	9394.8	13042.1	8943.9	4487.4	2371.8	1707.1
77.5°	502.9	579.9	799.6	1450.8	3747.5	7425.6	3373.7	1184.9	645.5	450.9
80°	244.7	269.7	385.3	483.6	938.3	2360.3	880.5	454.7	304.4	235.1
82.5°	134.9	136.8	217.7	273.6	348.7	610.8	362.2	265.9	175.3	142.6
85°	82.8	80.9	115.6	146.4	146.4	217.7	173.4	146.4	100.2	88.6
87.5°	32.8	32.8	42.4	46.2	40.5	55.9	44.3	48.2	38.5	36.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3676.2
3695.5
3724.4
3759.1
3791.8
3824.6
3876.6
3940.2
4013.4
4086.6
4169.5
4283.1
4445.0
4664.6
4942.1
5281.2
5678.1
6115.5
6581.7
7038.4
7518.1
7947.8
8379.4
8868.8
9433.3
10167.4
10834.0
10639.4
9180.9
5809.1
1614.6
402.7
215.8
142.6
92.5
38.5
0.0

OF REPORT)