

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: P951782

Luminaire Tested: **GALN-SB5D-830-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951782  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5D-830-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

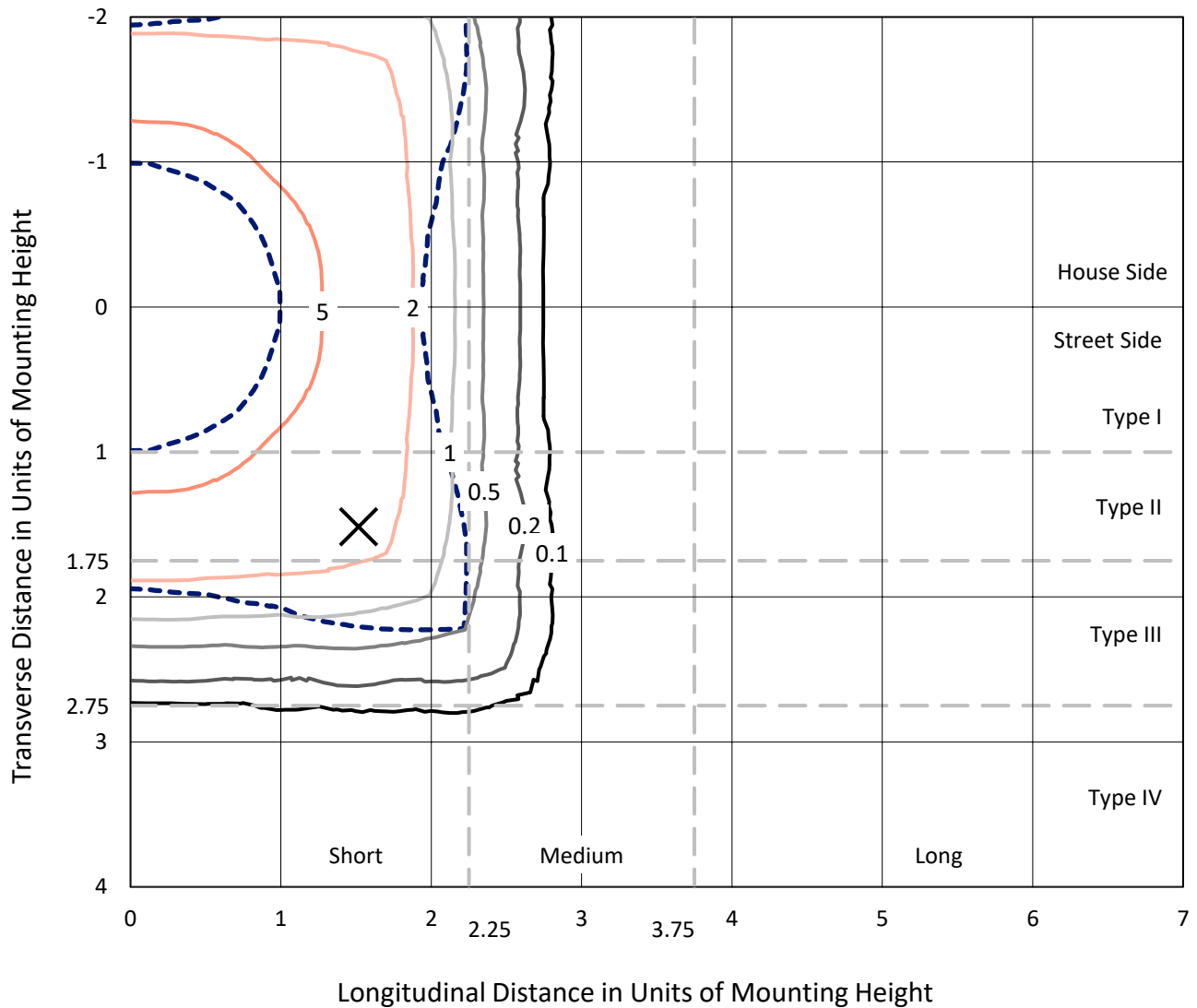
Lumens per Lamp: N/A  
Luminaire Lumens: 48401 lumens  
Efficiency: N/A  
Efficacy: 132.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

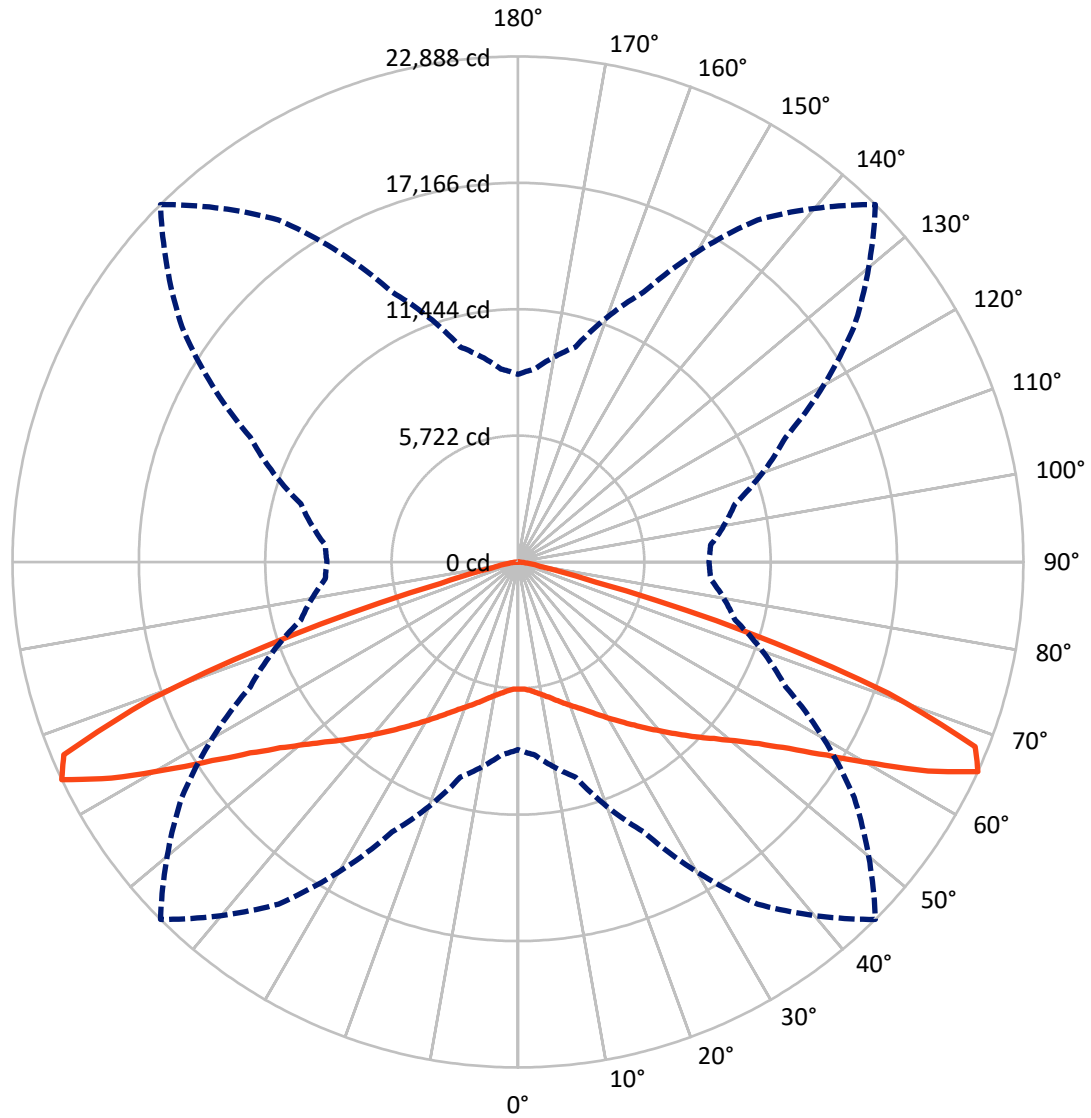
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	24200.5	0.0	24200.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	24200.5	0.0	24200.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	48401.0	0.0	48401.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	568.5	1.2
10°-20°	1855.0	3.8
20°-30°	3502.4	7.2
30°-40°	5735.1	11.8
40°-50°	8892.3	18.4
50°-60°	13135.8	27.1
60°-70°	12504.1	25.8
70°-80°	2017.7	4.2
80°-90°	190.2	0.4
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°	48401.0	100.0
0°-180°	48401.0	100.0

**Coefficient of Utilization**



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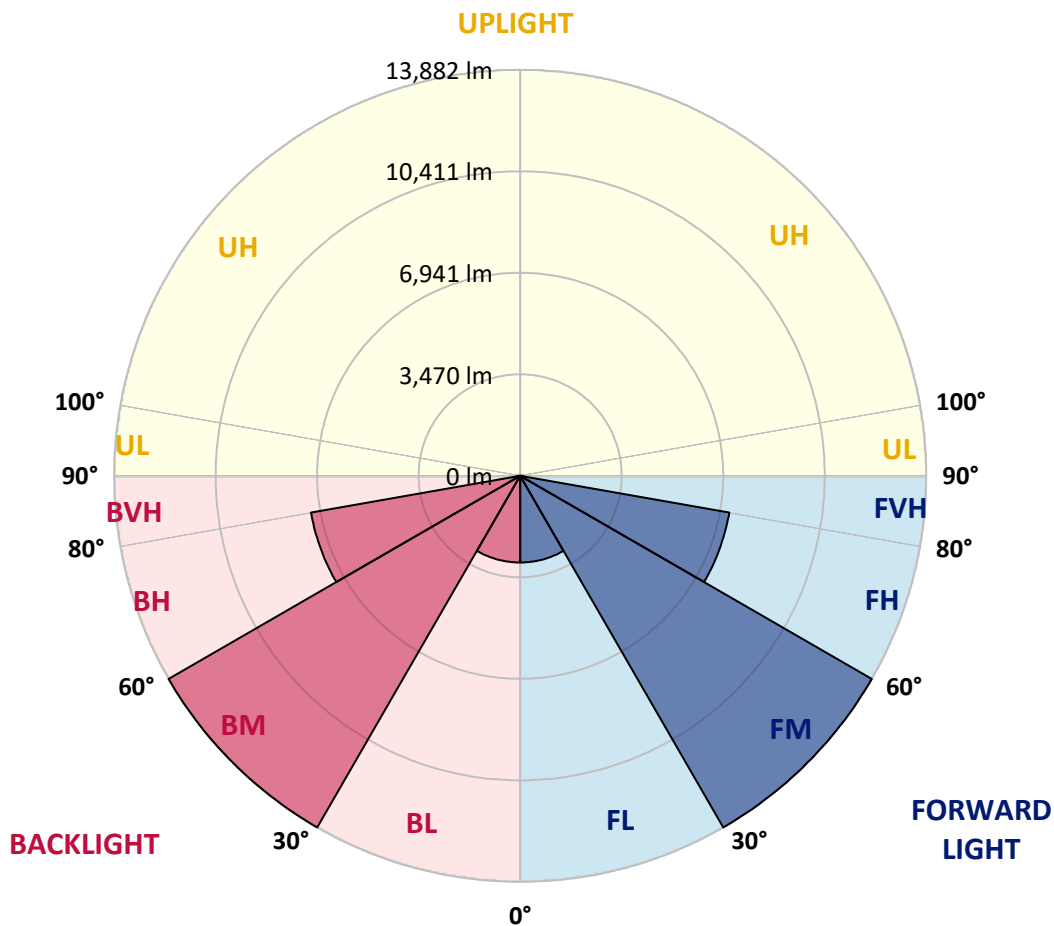
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2962.9	6.1			
FM (30°-60°)	13881.6	28.7			
FH (60°-80°)	7260.9	15.0			G3/7500
FVH (80°-90°)	95.1	0.2			G1/100
BL (0°-30°)	2962.9	6.1	B4/5000		
BM (30°-60°)	13881.6	28.7	B5		
BH (60°-80°)	7260.9	15.0	B5		G3/7500
BVH (80°-90°)	95.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5760.2	5760.2	5760.2	5760.2	5760.2	5760.2	5760.2	5760.2	5760.2	5760.2
2.5°	5799.1	5779.6	5794.2	5782.1	5772.3	5762.6	5767.5	5784.5	5791.8	5794.2
5°	5876.8	5859.8	5867.1	5867.1	5850.1	5845.2	5847.6	5859.8	5874.3	5874.3
7.5°	6003.0	5986.0	6003.0	5993.3	5978.8	5973.9	5971.5	5981.2	6003.0	6003.0
10°	6156.0	6136.6	6146.3	6141.5	6124.5	6117.2	6114.8	6129.3	6148.7	6146.3
12.5°	6323.6	6301.7	6313.9	6299.3	6294.5	6287.2	6287.2	6284.7	6296.9	6287.2
15°	6510.6	6496.0	6500.9	6491.2	6498.4	6493.6	6474.2	6464.4	6469.3	6454.7
17.5°	6731.6	6697.6	6714.6	6709.7	6709.7	6719.4	6687.9	6675.7	6685.4	6670.9
20°	6986.6	6952.6	6959.8	6950.1	6938.0	6947.7	6908.8	6918.6	6925.8	6916.1
22.5°	7265.8	7222.1	7219.7	7224.5	7197.8	7200.3	7173.5	7197.8	7212.4	7185.7
25°	7552.4	7506.2	7537.8	7525.7	7491.7	7498.9	7479.5	7503.8	7515.9	7482.0
27.5°	7855.9	7824.4	7853.5	7860.8	7819.5	7848.6	7819.5	7841.4	7853.5	7802.5
30°	8210.5	8178.9	8205.6	8225.0	8176.5	8222.6	8198.3	8212.9	8215.3	8154.6
32.5°	8596.6	8548.0	8616.0	8625.7	8572.3	8628.2	8596.6	8616.0	8628.2	8545.6
35°	9067.7	9007.0	9084.7	9072.6	9026.4	9072.6	9043.4	9072.6	9101.7	9002.1
37.5°	9575.2	9512.1	9594.7	9572.8	9529.1	9560.7	9543.7	9563.1	9609.2	9502.4
40°	10133.8	10056.1	10167.8	10128.9	10087.6	10082.8	10092.5	10104.6	10165.3	10046.4
42.5°	10731.2	10648.6	10816.2	10755.5	10697.2	10658.3	10689.9	10714.2	10772.5	10638.9
45°	11413.6	11318.8	11537.4	11464.6	11372.3	11292.1	11343.1	11379.6	11464.6	11304.3
47.5°	12166.4	12059.5	12292.6	12270.8	12120.2	11945.4	12061.9	12166.4	12229.5	12035.2
50°	12902.2	12819.6	13125.6	13152.3	12967.7	12722.5	12885.2	13043.0	13060.0	12805.0
52.5°	13591.8	13509.3	13953.7	14121.2	13956.1	13664.7	13837.1	13997.4	13868.7	13538.4
55°	14143.1	14075.1	14640.9	15073.2	15129.0	14888.6	14990.6	14985.8	14563.2	14055.7
57.5°	14276.7	14266.9	14980.9	15896.4	16479.2	16508.4	16306.8	15792.0	14881.3	14198.9
60°	13669.6	13730.3	14711.3	16326.2	17880.4	18526.4	17654.6	16185.4	14519.5	13572.4
62.5°	11853.1	12013.4	13196.0	15801.7	19012.1	20848.0	18735.2	15588.0	13033.3	11797.2
65°	8494.6	8773.9	10080.4	13485.0	18910.1	22887.8	18579.8	13375.7	10177.5	8752.0
67.5°	3853.9	4138.0	5247.8	9232.8	16437.9	22334.1	16399.1	9330.0	5510.1	4152.6
70°	1396.3	1444.9	1801.9	3696.0	10505.3	17795.4	10954.6	3722.8	1916.0	1539.6
72.5°	845.1	852.4	927.7	1323.5	3649.9	10804.0	3805.3	1367.2	947.1	840.2
75°	536.7	531.8	660.5	808.7	1294.3	3645.1	1357.5	808.7	658.1	599.8
77.5°	386.1	398.3	473.5	604.7	815.9	1236.1	801.4	578.0	473.5	388.5
80°	289.0	296.3	344.8	471.1	573.1	769.8	510.0	427.4	357.0	242.8
82.5°	208.8	208.8	225.8	342.4	349.7	415.3	276.8	301.1	235.6	172.4
85°	123.8	121.4	140.8	204.0	182.1	153.0	126.3	184.6	148.1	106.9
87.5°	43.7	46.1	43.7	58.3	48.6	41.3	38.9	51.0	41.3	36.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
5760.2
5794.2
5874.3
5995.8
6141.5
6292.0
6457.2
6683.0
6938.0
7212.4
7520.8
7841.4
8191.0
8601.4
9062.8
9568.0
10085.2
10709.3
11386.8
12100.8
12836.6
13548.1
14072.7
14155.2
13460.7
11724.4
8647.6
4091.9
1520.2
854.8
604.7
395.8
250.1
172.4
104.4
34.0
0.0

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