

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: P954638

Luminaire Tested: **GALN-SB7D-830-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954638  
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-SB7D-830-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

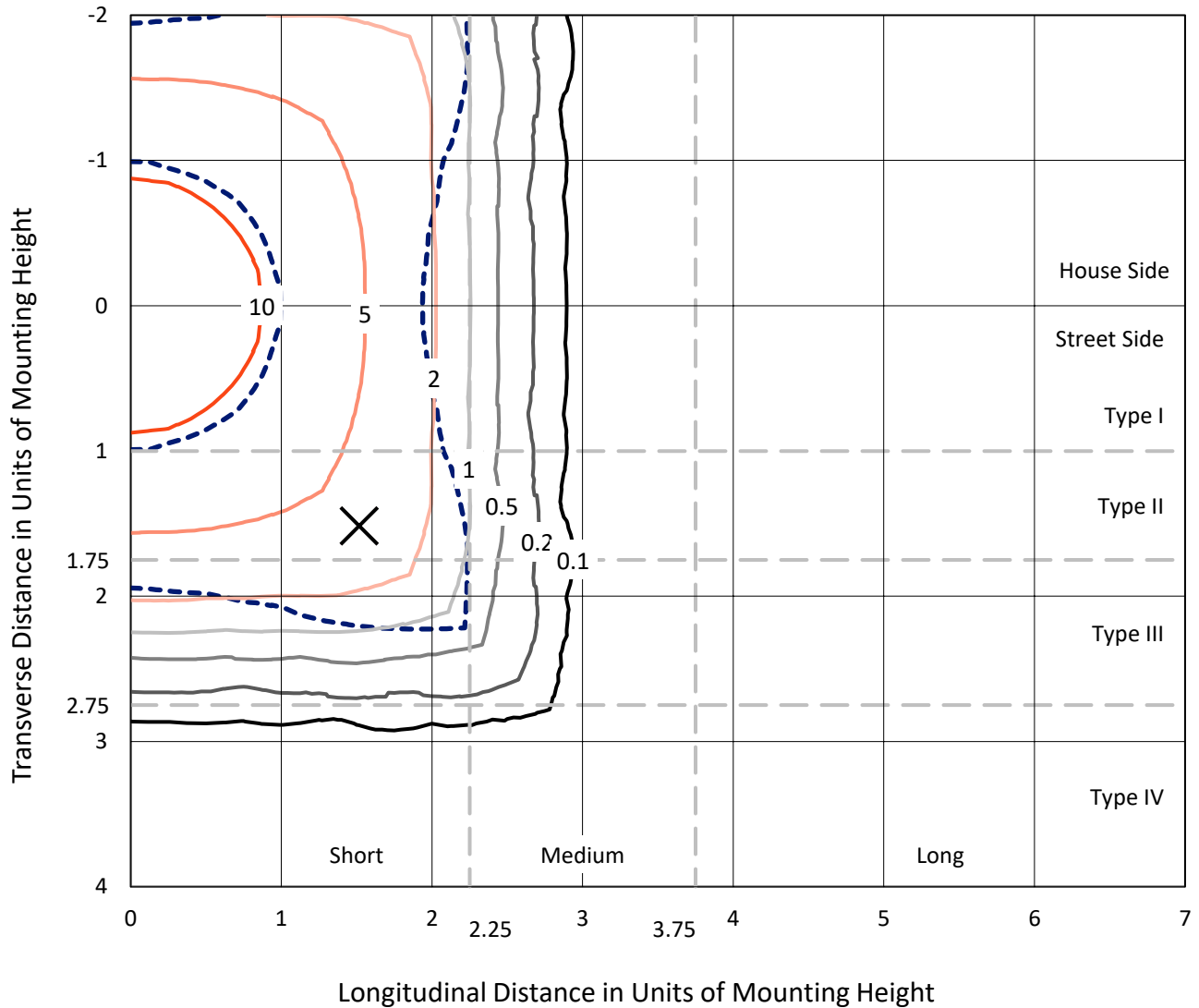
Lumens per Lamp: N/A  
Luminaire Lumens: 68141 lumens  
Efficiency: N/A  
Efficacy: 132.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

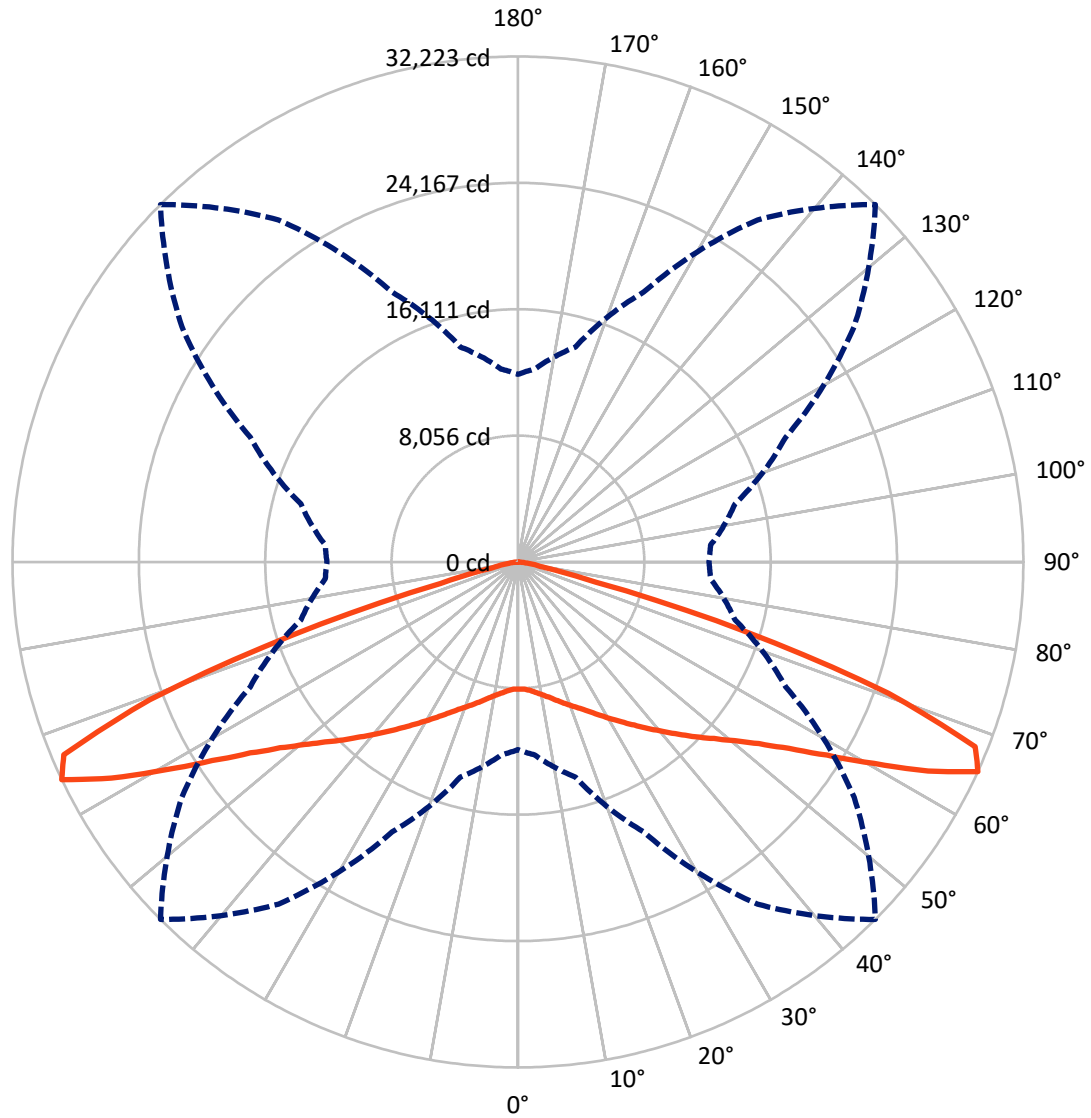
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 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	34070.5	0.0	34070.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	34070.5	0.0	34070.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	68141.0	0.0	68141.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	800.3	1.2
10°-20°	2611.5	3.8
20°-30°	4930.8	7.2
30°-40°	8074.1	11.8
40°-50°	12519.0	18.4
50°-60°	18493.1	27.1
60°-70°	17603.7	25.8
70°-80°	2840.6	4.2
80°-90°	267.8	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°	68141.0	100.0
0°-180°	68141.0	100.0

**Coefficient of Utilization**



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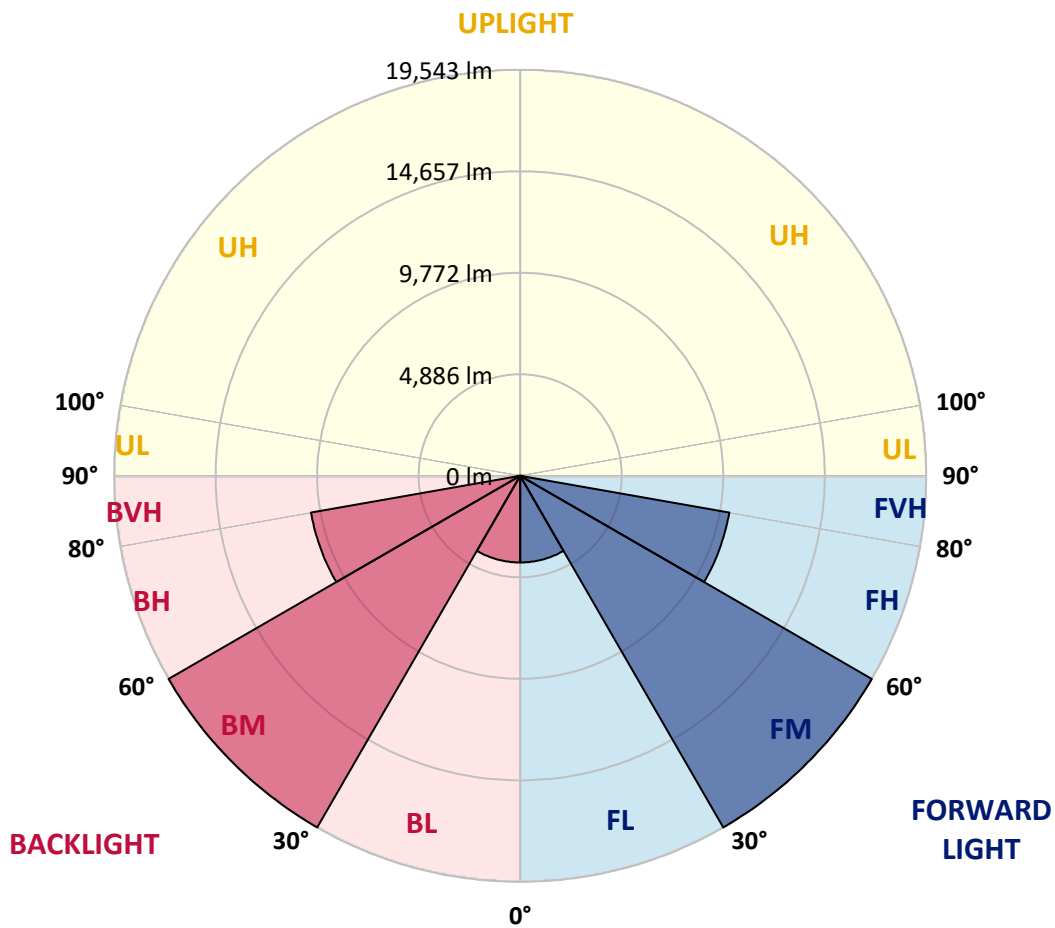
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4171.3	6.1			
FM (30°-60°)	19543.1	28.7			
FH (60°-80°)	10222.2	15.0			G4/12000
FVH (80°-90°)	133.9	0.2			G2/225
BL (0°-30°)	4171.3	6.1	B4/5000		
BM (30°-60°)	19543.1	28.7	B5		
BH (60°-80°)	10222.2	15.0	B5		G4/12000
BVH (80°-90°)	133.9	0.2			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°	8109.5	8109.5	8109.5	8109.5	8109.5	8109.5	8109.5	8109.5	8109.5	8109.5
2.5°	8164.2	8136.8	8157.3	8140.2	8126.6	8112.9	8119.7	8143.6	8153.9	8157.3
5°	8273.6	8249.6	8259.9	8259.9	8236.0	8229.1	8232.5	8249.6	8270.1	8270.1
7.5°	8451.3	8427.4	8451.3	8437.7	8417.2	8410.3	8406.9	8420.6	8451.3	8451.3
10°	8666.7	8639.4	8653.1	8646.2	8622.3	8612.0	8608.6	8629.1	8656.5	8653.1
12.5°	8902.6	8871.9	8889.0	8868.4	8861.6	8851.3	8851.3	8847.9	8865.0	8851.3
15°	9165.9	9145.4	9152.2	9138.5	9148.8	9141.9	9114.6	9100.9	9107.8	9087.2
17.5°	9477.0	9429.1	9453.1	9446.2	9446.2	9459.9	9415.5	9398.4	9412.0	9391.5
20°	9836.0	9788.1	9798.4	9784.7	9767.6	9781.3	9726.6	9740.2	9750.5	9736.8
22.5°	10229.1	10167.6	10164.2	10171.0	10133.4	10136.8	10099.2	10133.4	10153.9	10116.3
25°	10632.6	10567.6	10612.0	10594.9	10547.1	10557.3	10530.0	10564.2	10581.3	10533.4
27.5°	11059.9	11015.5	11056.5	11066.7	11008.6	11049.7	11008.6	11039.4	11056.5	10984.7
30°	11559.1	11514.6	11552.2	11579.6	11511.2	11576.2	11542.0	11562.5	11565.9	11480.4
32.5°	12102.7	12034.3	12130.0	12143.7	12068.5	12147.1	12102.7	12130.0	12147.1	12030.9
35°	12765.9	12680.4	12789.8	12772.7	12707.8	12772.7	12731.7	12772.7	12813.8	12673.6
37.5°	13480.4	13391.6	13507.8	13477.0	13415.5	13459.9	13436.0	13463.3	13528.3	13377.9
40°	14266.8	14157.4	14314.6	14259.9	14201.8	14195.0	14208.7	14225.7	14311.2	14143.7
42.5°	15107.8	14991.6	15227.5	15142.0	15059.9	15005.2	15049.7	15083.9	15165.9	14977.9
45°	16068.5	15935.2	16242.9	16140.3	16010.4	15897.6	15969.3	16020.6	16140.3	15914.6
47.5°	17128.3	16977.9	17306.1	17275.3	17063.4	16817.2	16981.3	17128.3	17217.2	16943.7
50°	18164.2	18048.0	18478.8	18516.4	18256.5	17911.2	18140.3	18362.5	18386.5	18027.5
52.5°	19135.2	19018.9	19644.6	19880.5	19648.0	19237.7	19480.5	19706.1	19524.9	19060.0
55°	19911.3	19815.5	20612.1	21220.7	21299.3	20960.8	21104.4	21097.6	20502.7	19788.2
57.5°	20099.3	20085.6	21090.8	22379.6	23200.2	23241.2	22957.4	22232.6	20950.6	19989.9
60°	19244.6	19330.1	20711.3	22984.8	25172.8	26082.2	24854.9	22786.5	20441.2	19107.8
62.5°	16687.3	16912.9	18577.9	22246.3	26766.0	29350.6	26376.3	21945.5	18348.9	16608.7
65°	11959.1	12352.2	14191.6	18984.8	26622.4	32222.5	26157.5	18830.9	14328.3	12321.5
67.5°	5425.7	5825.7	7388.1	12998.4	23142.0	31443.0	23087.3	13135.1	7757.3	5846.2
70°	1965.8	2034.2	2536.8	5203.5	14789.9	25053.2	15422.3	5241.1	2697.5	2167.5
72.5°	1189.8	1200.0	1306.0	1863.3	5138.5	15210.4	5357.3	1924.8	1333.3	1182.9
75°	755.6	748.7	929.9	1138.5	1822.2	5131.7	1911.1	1138.5	926.5	844.5
77.5°	543.6	560.7	666.7	851.3	1148.7	1740.2	1128.2	813.7	666.7	547.0
80°	406.8	417.1	485.5	663.3	806.8	1083.8	718.0	601.7	502.6	341.9
82.5°	294.0	294.0	318.0	482.1	492.3	584.6	389.7	423.9	331.6	242.7
85°	174.4	170.9	198.3	287.2	256.4	215.4	177.8	259.8	208.5	150.4
87.5°	61.5	65.0	61.5	82.1	68.4	58.1	54.7	71.8	58.1	51.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°  
8109.5  
8157.3  
8270.1  
8441.1  
8646.2  
8858.2  
9090.7  
9408.6  
9767.6  
10153.9  
10588.1  
11039.4  
11531.7  
12109.5  
12759.1  
13470.2  
14198.4  
15077.0  
16030.9  
17036.0  
18071.9  
19073.6  
19812.1  
19928.3  
18950.6  
16506.1  
12174.4  
5760.7  
2140.2  
1203.4  
851.3  
557.3  
352.1  
242.7  
147.0  
47.9  
0.0

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