

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: P954554

Luminaire Tested: **GALN-SB7D-740-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954554  
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-740-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

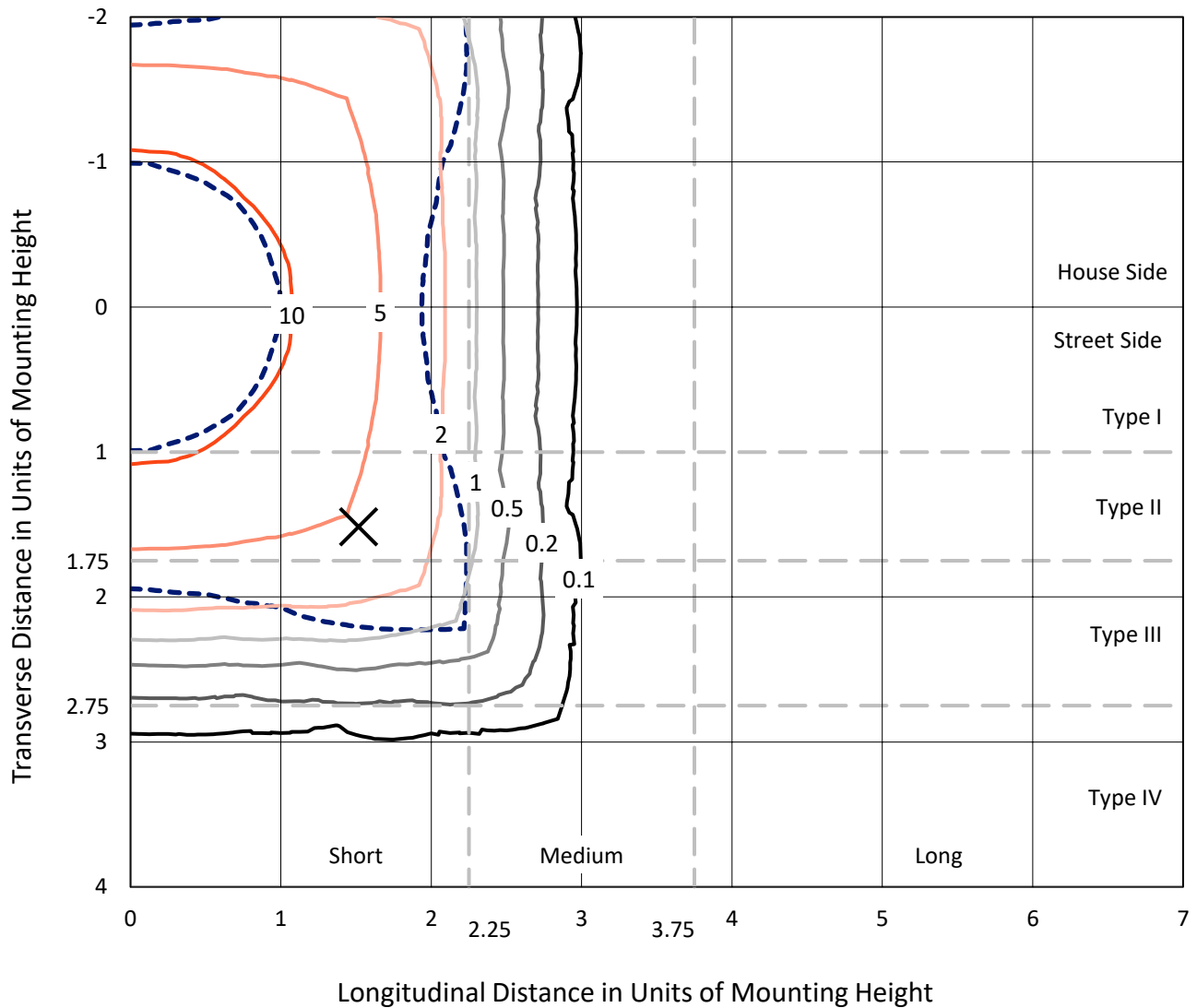
Lumens per Lamp: N/A  
Luminaire Lumens: 80230 lumens  
Efficiency: N/A  
Efficacy: 156.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

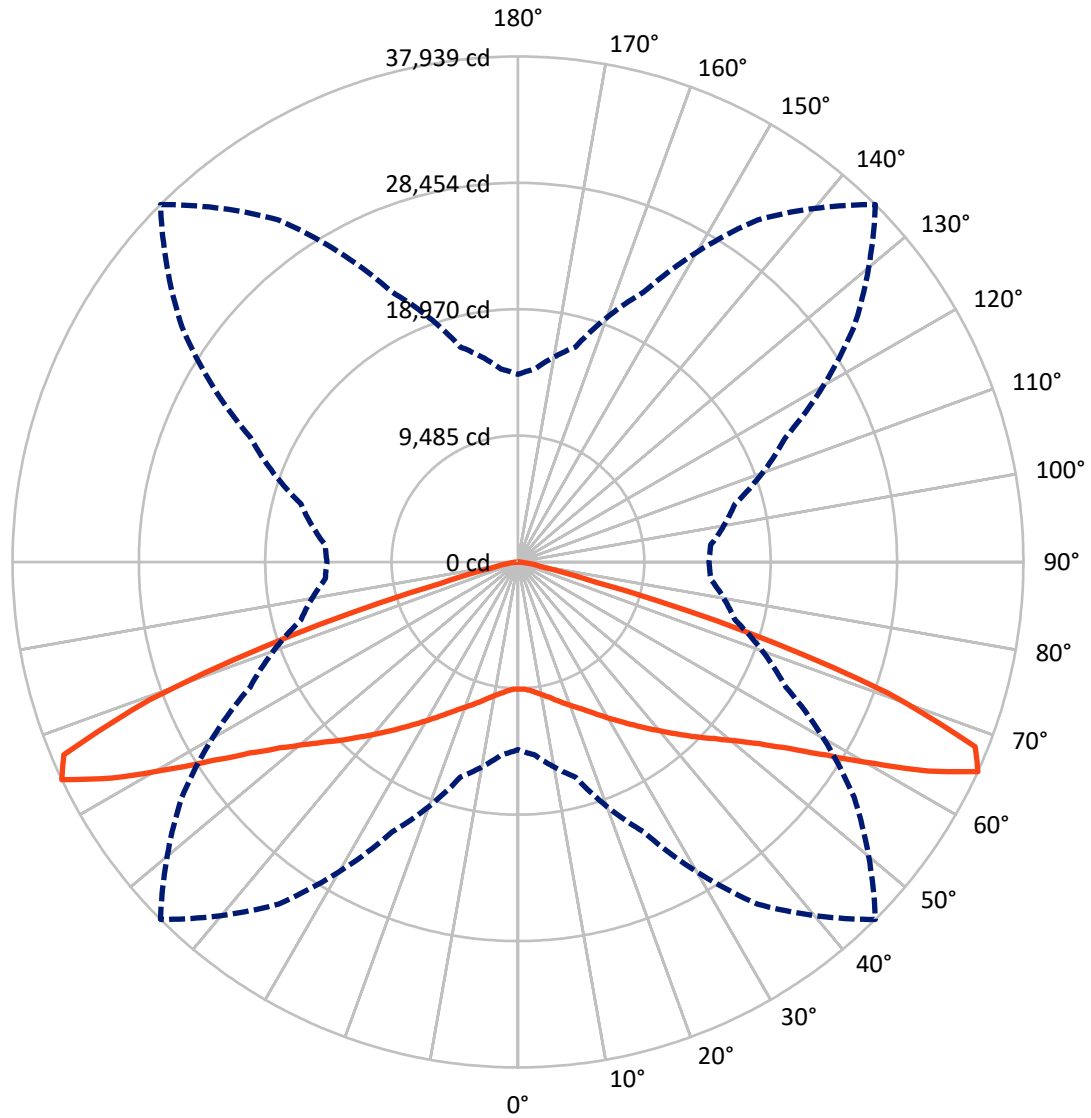
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 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	40115.0	0.0	40115.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	40115.0	0.0	40115.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	80230.0	0.0	80230.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	942.3	1.2
10°-20°	3074.8	3.8
20°-30°	5805.6	7.2
30°-40°	9506.5	11.8
40°-50°	14740.0	18.4
50°-60°	21774.0	27.1
60°-70°	20726.8	25.8
70°-80°	3344.6	4.2
80°-90°	315.3	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°	80230.0	100.0
0°-180°	80230.0	100.0

**Coefficient of Utilization**



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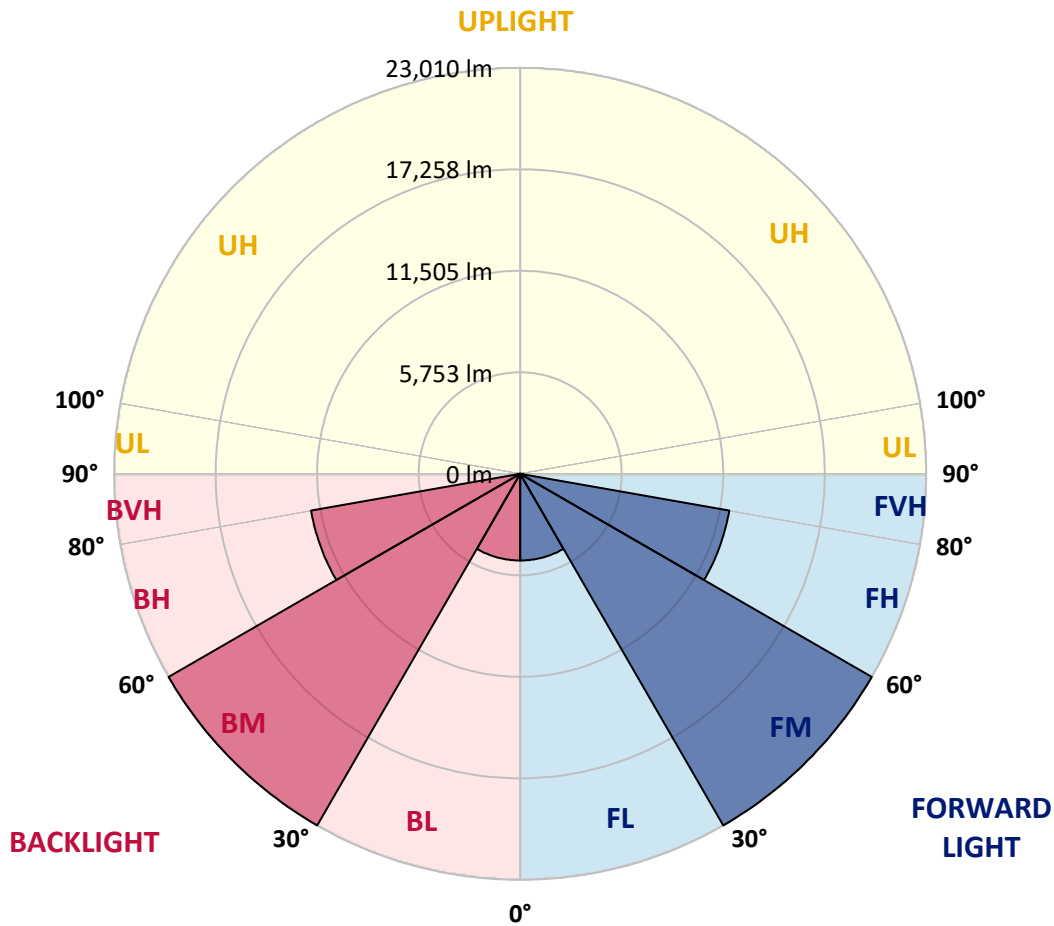
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4911.4	6.1			
FM (30°-60°)	23010.3	28.7			
FH (60°-80°)	12035.7	15.0			G5
FVH (80°-90°)	157.6	0.2			G2/225
BL (0°-30°)	4911.4	6.1	B4/5000		
BM (30°-60°)	23010.3	28.7	B5		
BH (60°-80°)	12035.7	15.0	B5		G5
BVH (80°-90°)	157.6	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-G5**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9548.2	9548.2	9548.2	9548.2	9548.2	9548.2	9548.2	9548.2	9548.2	9548.2
2.5°	9612.6	9580.4	9604.5	9584.4	9568.3	9552.2	9560.2	9588.4	9600.5	9604.5
5°	9741.4	9713.2	9725.3	9725.3	9697.1	9689.1	9693.1	9713.2	9737.4	9737.4
7.5°	9950.7	9922.5	9950.7	9934.6	9910.5	9902.4	9898.4	9914.5	9950.7	9950.7
10°	10204.3	10172.1	10188.2	10180.2	10152.0	10139.9	10135.9	10160.0	10192.2	10188.2
12.5°	10482.1	10445.8	10466.0	10441.8	10433.8	10421.7	10421.7	10417.7	10437.8	10421.7
15°	10792.0	10767.9	10775.9	10759.8	10771.9	10763.8	10731.6	10715.5	10723.6	10699.4
17.5°	11158.3	11102.0	11130.1	11122.1	11122.1	11138.2	11085.9	11065.7	11081.8	11057.7
20°	11581.0	11524.6	11536.7	11520.6	11500.5	11516.6	11452.2	11468.3	11480.3	11464.2
22.5°	12043.9	11971.4	11967.4	11975.5	11931.2	11935.2	11890.9	11931.2	11955.3	11911.1
25°	12518.9	12442.4	12494.7	12474.6	12418.3	12430.3	12398.1	12438.4	12458.5	12402.2
27.5°	13022.1	12969.7	13018.0	13030.1	12961.7	13010.0	12961.7	12997.9	13018.0	12933.5
30°	13609.8	13557.4	13601.7	13633.9	13553.4	13629.9	13589.6	13613.8	13617.8	13517.2
32.5°	14249.8	14169.3	14282.0	14298.1	14209.5	14302.1	14249.8	14282.0	14302.1	14165.3
35°	15030.7	14930.1	15058.9	15038.8	14962.3	15038.8	14990.5	15038.8	15087.1	14922.0
37.5°	15872.0	15767.4	15904.2	15868.0	15795.5	15847.9	15819.7	15851.9	15928.4	15751.3
40°	16797.9	16669.0	16854.2	16789.8	16721.4	16713.3	16729.4	16749.6	16850.2	16652.9
42.5°	17788.1	17651.2	17929.0	17828.4	17731.7	17667.3	17719.7	17759.9	17856.5	17635.1
45°	18919.2	18762.2	19124.5	19003.8	18850.8	18718.0	18802.5	18862.9	19003.8	18738.1
47.5°	20167.1	19990.0	20376.4	20340.2	20090.6	19800.8	19994.0	20167.1	20271.8	19949.7
50°	21386.8	21249.9	21757.1	21801.4	21495.5	21088.9	21358.6	21620.3	21648.4	21225.8
52.5°	22530.0	22393.1	23129.8	23407.5	23133.8	22650.7	22936.5	23202.2	22988.9	22441.4
55°	23443.7	23331.0	24268.9	24985.5	25078.0	24679.5	24848.6	24840.5	24140.1	23298.8
57.5°	23665.1	23649.0	24832.5	26350.1	27316.1	27364.5	27030.3	26177.0	24667.5	23536.3
60°	22658.8	22759.4	24385.7	27062.5	29638.8	30709.5	29264.4	26829.1	24067.7	22497.8
62.5°	19647.8	19913.5	21873.8	26193.1	31514.6	34557.8	31055.7	25838.8	21604.1	19555.2
65°	14080.7	14543.7	16709.3	22352.9	31345.5	37939.1	30798.1	22171.7	16870.3	14507.4
67.5°	6388.3	6859.2	8698.8	15304.4	27247.7	37021.3	27183.3	15465.5	9133.6	6883.4
70°	2314.6	2395.1	2986.8	6126.6	17413.7	29497.9	18158.4	6170.9	3176.0	2552.1
72.5°	1400.8	1412.9	1537.7	2193.8	6050.1	17908.9	6307.8	2266.3	1569.9	1392.8
75°	889.6	881.6	1094.9	1340.4	2145.5	6042.1	2250.2	1340.4	1090.9	994.3
77.5°	640.0	660.2	784.9	1002.3	1352.5	2048.9	1328.4	958.0	784.9	644.1
80°	479.0	491.1	571.6	780.9	950.0	1276.0	845.3	708.5	591.7	402.5
82.5°	346.2	346.2	374.4	567.6	579.7	688.3	458.9	499.1	390.5	285.8
85°	205.3	201.3	233.5	338.1	301.9	253.6	209.3	305.9	245.5	177.1
87.5°	72.5	76.5	72.5	96.6	80.5	68.4	64.4	84.5	68.4	60.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°  
9548.2  
9604.5  
9737.4  
9938.6  
10180.2  
10429.7  
10703.5  
11077.8  
11500.5  
11955.3  
12466.6  
12997.9  
13577.6  
14257.9  
15022.7  
15859.9  
16717.4  
17751.9  
18874.9  
20058.4  
21278.1  
22457.5  
23327.0  
23463.9  
22312.6  
19434.5  
**14334.3**  
6782.7  
2519.9  
1416.9  
1002.3  
656.1  
414.6  
285.8  
173.1  
56.4  
0.0

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