

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: LUMARK

Report Number: P963962

Luminaire Tested: **NAV-SB3B-727-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P963962  
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: LUMARK  
Catalog Number: NAV-SB3B-727-U-5NQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

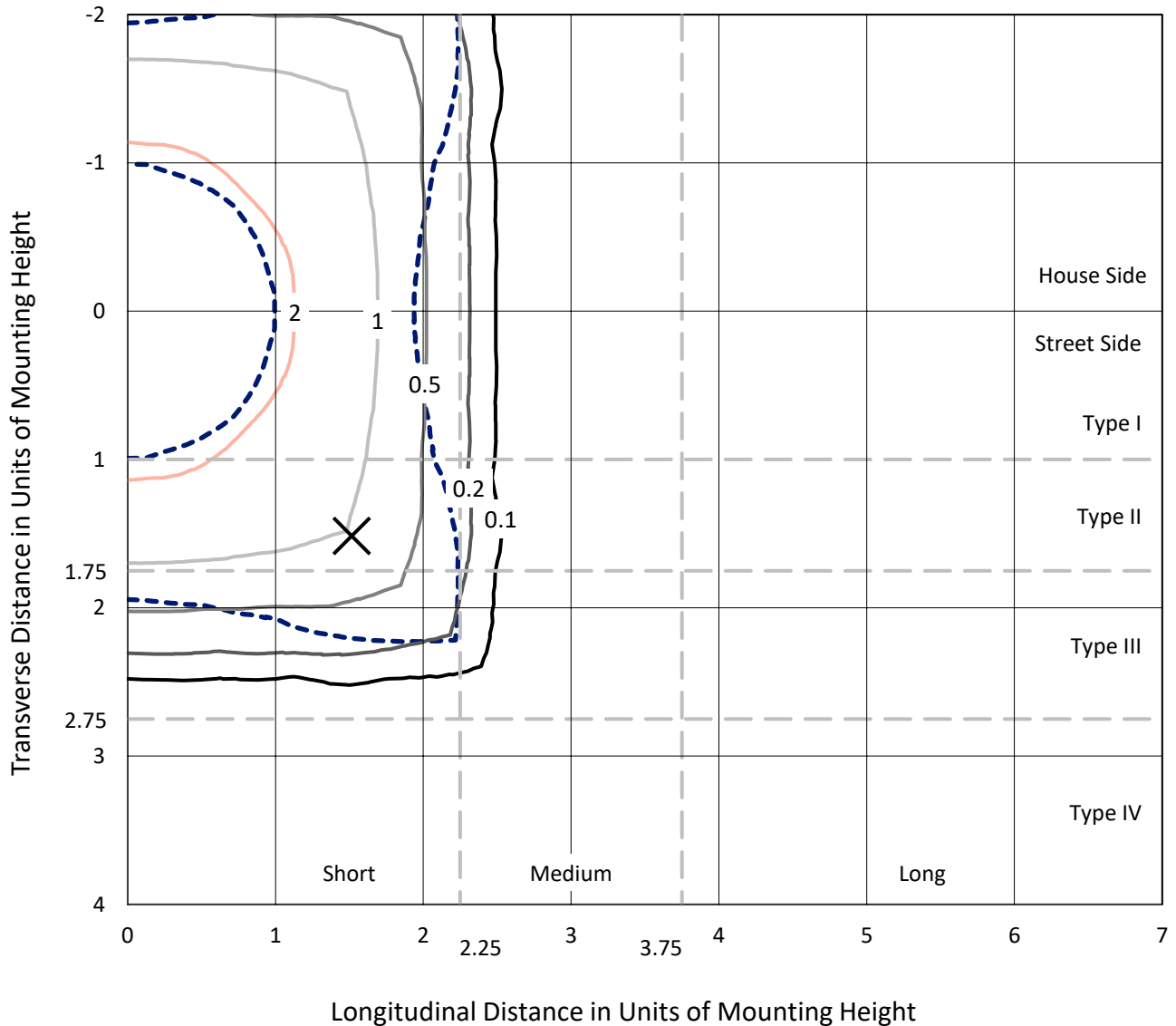
Lumens per Lamp: N/A  
Luminaire Lumens: 16831.5 lumens  
Efficiency: N/A  
Efficacy: 154.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

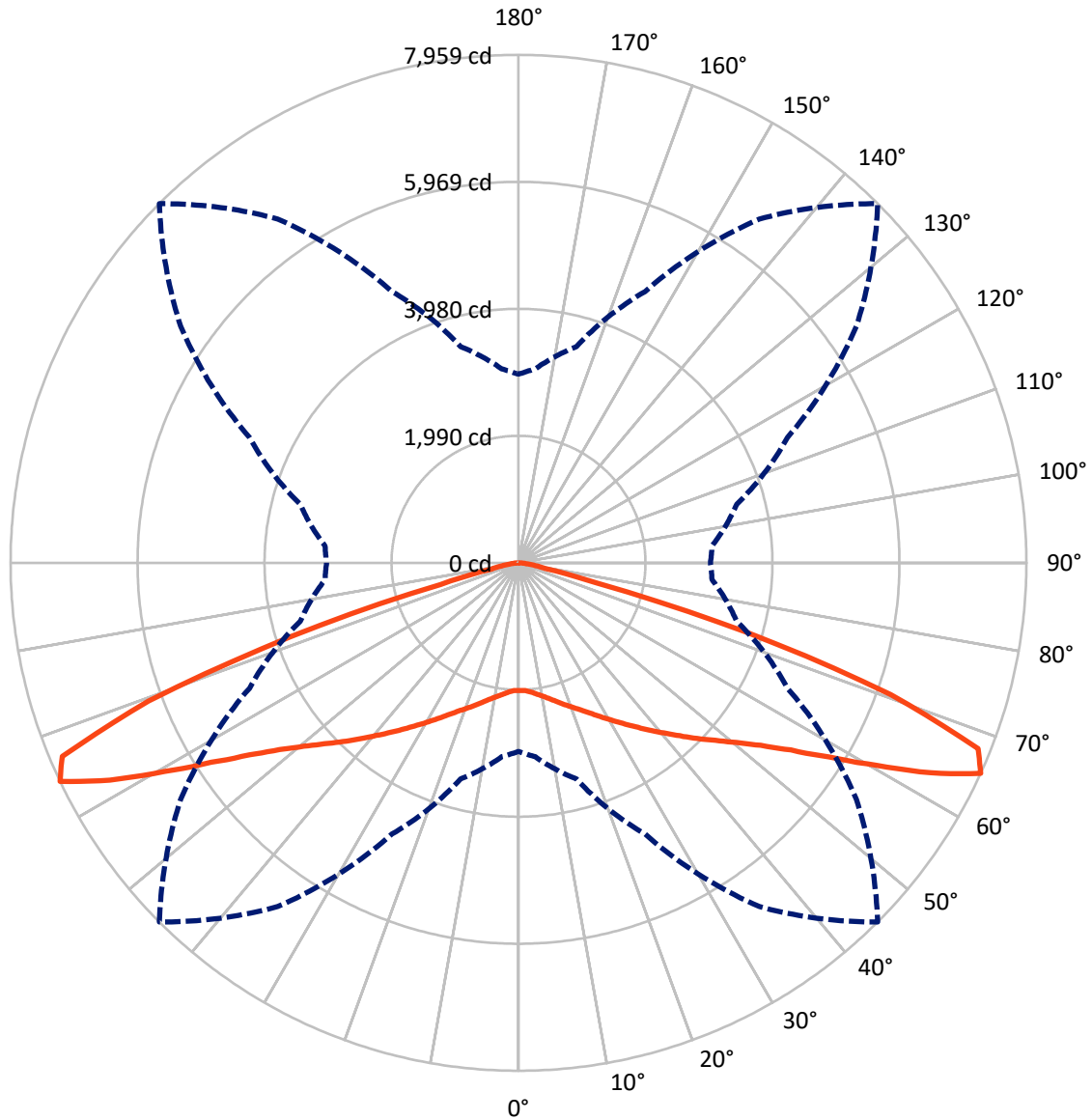
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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	8415.8	0.0	8415.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8415.8	0.0	8415.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16831.5	0.0	16831.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.7	1.2
10°-20°	645.1	3.8
20°-30°	1218.0	7.2
30°-40°	1994.4	11.8
40°-50°	3092.3	18.4
50°-60°	4568.0	27.1
60°-70°	4348.3	25.8
70°-80°	701.7	4.2
80°-90°	66.1	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°	16831.5	100.0
0°-180°	16831.5	100.0

**Coefficient of Utilization**

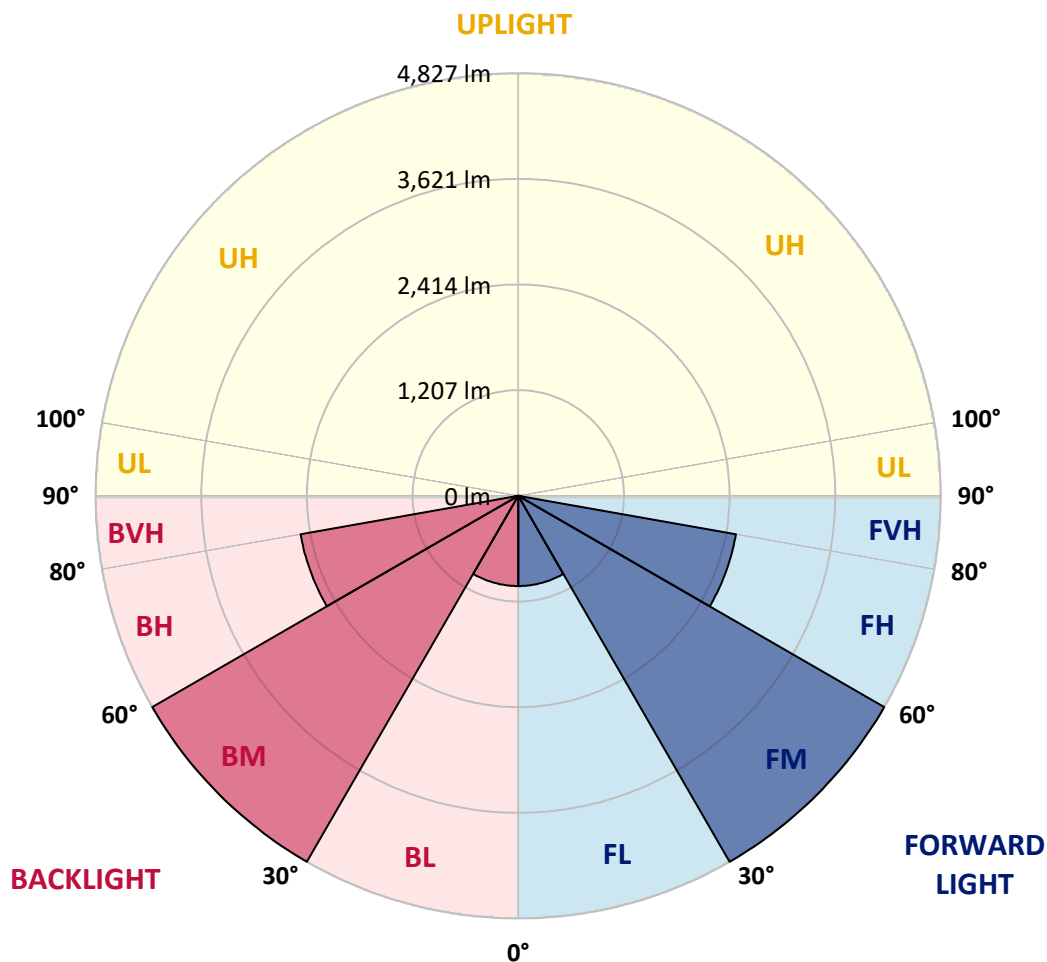


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1030.4	6.1			
FM (30°-60°)	4827.4	28.7			
FH (60°-80°)	2525.0	15.0			G2/5000
FVH (80°-90°)	33.1	0.2			G1/100
BL (0°-30°)	1030.4	6.1	B3/2500		
BM (30°-60°)	4827.4	28.7	B3/5000		
BH (60°-80°)	2525.0	15.0	B4/5000		G2/5000
BVH (80°-90°)	33.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**  
 Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2003.2	2003.2	2003.2	2003.2	2003.2	2003.2	2003.2	2003.2	2003.2	2003.2	2003.2
2.5°	2016.6	2009.9	2014.9	2010.7	2007.4	2004.0	2005.6	2011.6	2014.1	2014.9	2014.9
5°	2043.6	2037.7	2040.3	2040.3	2034.3	2032.7	2033.5	2037.7	2042.8	2042.8	2042.8
7.5°	2087.6	2081.7	2087.6	2084.2	2079.1	2077.5	2076.5	2079.9	2087.6	2087.6	2085.1
10°	2140.8	2134.0	2137.4	2135.7	2129.7	2127.3	2126.5	2131.5	2138.3	2137.4	2135.7
12.5°	2199.0	2191.4	2195.7	2190.6	2188.9	2186.3	2186.3	2185.5	2189.7	2186.3	2188.1
15°	2264.0	2259.0	2260.6	2257.4	2259.8	2258.2	2251.4	2248.0	2249.7	2244.6	2245.5
17.5°	2340.9	2329.1	2335.1	2333.3	2333.3	2336.7	2325.7	2321.5	2324.9	2319.8	2324.0
20°	2429.6	2417.8	2420.3	2417.0	2412.6	2416.0	2402.6	2406.0	2408.4	2405.1	2412.6
22.5°	2526.7	2511.5	2510.6	2512.4	2503.0	2503.9	2494.6	2503.0	2508.1	2498.8	2508.1
25°	2626.4	2610.3	2621.2	2617.0	2605.2	2607.8	2601.0	2609.4	2613.6	2601.9	2615.4
27.5°	2731.9	2721.0	2731.1	2733.6	2719.2	2729.4	2719.2	2726.8	2731.1	2713.4	2726.8
30°	2855.2	2844.3	2853.5	2860.3	2843.4	2859.4	2850.9	2856.1	2856.9	2835.8	2848.5
32.5°	2989.5	2972.6	2996.3	2999.7	2981.0	3000.5	2989.5	2996.3	3000.5	2971.8	2991.2
35°	3153.3	3132.2	3159.3	3155.0	3139.0	3155.0	3144.9	3155.0	3165.1	3130.6	3151.7
37.5°	3329.8	3307.9	3336.6	3329.0	3313.7	3324.7	3318.8	3325.6	3341.6	3304.5	3327.3
40°	3524.1	3497.0	3535.8	3522.3	3508.0	3506.3	3509.7	3513.9	3535.0	3493.6	3507.1
42.5°	3731.8	3703.1	3761.3	3740.2	3719.9	3706.4	3717.5	3725.9	3746.2	3699.7	3724.1
45°	3969.1	3936.1	4012.2	3986.8	3954.8	3926.9	3944.6	3957.2	3986.8	3931.1	3959.8
47.5°	4230.9	4193.7	4274.8	4267.2	4214.8	4154.0	4194.6	4230.9	4252.8	4185.3	4208.0
50°	4486.7	4458.0	4564.4	4573.8	4509.6	4424.3	4480.9	4535.7	4541.7	4453.0	4464.0
52.5°	4726.6	4697.9	4852.5	4910.7	4853.3	4751.9	4811.9	4867.6	4822.8	4708.0	4711.4
55°	4918.3	4894.7	5091.4	5241.7	5261.1	5177.6	5213.0	5211.3	5064.4	4887.9	4893.8
57.5°	4964.7	4961.3	5209.7	5528.0	5730.7	5740.8	5670.7	5491.6	5175.0	4937.7	4922.5
60°	4753.6	4774.8	5115.9	5677.5	6218.0	6442.5	6139.4	5628.5	5049.2	4719.8	4681.0
62.5°	4121.9	4177.7	4588.9	5495.0	6611.5	7249.9	6515.2	5420.7	4532.3	4102.5	4077.1
65°	2954.0	3051.1	3505.5	4689.5	6576.0	7959.2	6461.2	4651.4	3539.2	3043.5	3007.2
67.5°	1340.2	1439.0	1824.9	3210.7	5716.3	7766.7	5702.8	3244.5	1916.1	1444.0	1423.0
70°	485.5	502.5	626.6	1285.4	3653.2	6188.4	3809.5	1294.6	666.2	535.4	528.7
72.5°	293.9	296.4	322.6	460.2	1269.3	3757.1	1323.3	475.4	329.3	292.2	297.2
75°	186.7	184.9	229.7	281.3	450.1	1267.6	472.1	281.3	228.9	208.6	210.2
77.5°	134.3	138.5	164.7	210.2	283.7	429.9	278.7	201.0	164.7	135.1	137.7
80°	100.4	103.0	119.9	163.8	199.3	267.7	177.3	148.6	124.1	84.5	87.0
82.5°	72.7	72.7	78.5	119.1	121.6	144.4	96.2	104.8	81.9	60.0	60.0
85°	43.0	42.2	49.0	70.9	63.3	53.2	43.9	64.2	51.6	37.2	36.3
87.5°	15.2	16.1	15.2	20.3	16.9	14.3	13.5	17.7	14.3	12.7	11.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)