

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: P962938

Luminaire Tested: **NAV-SB2D-730-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P962938  
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: LUMARK  
Catalog Number: NAV-SB2D-730-U-5MQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 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: 21844.8 lumens  
Efficiency: N/A  
Efficacy: 148.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

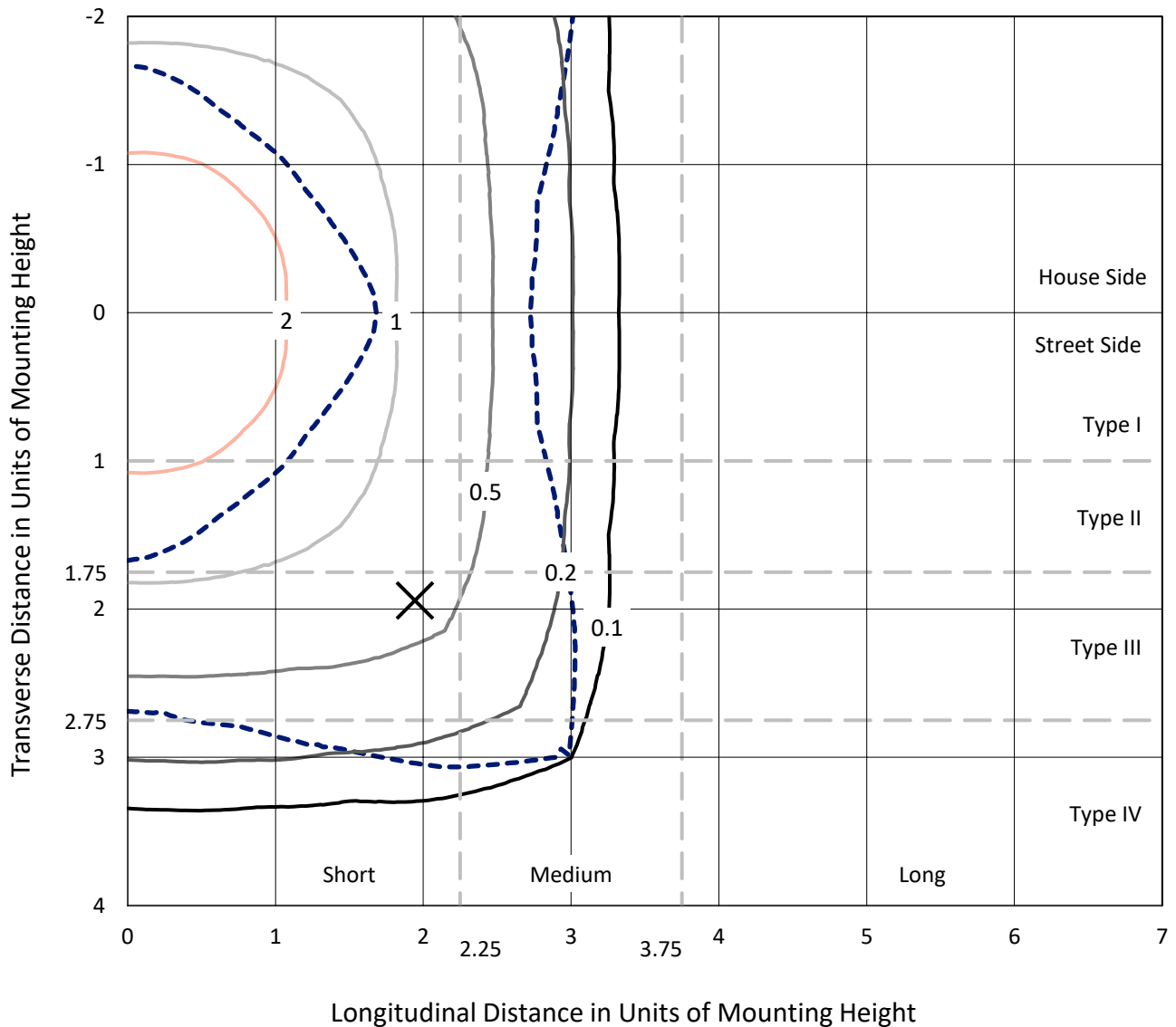
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

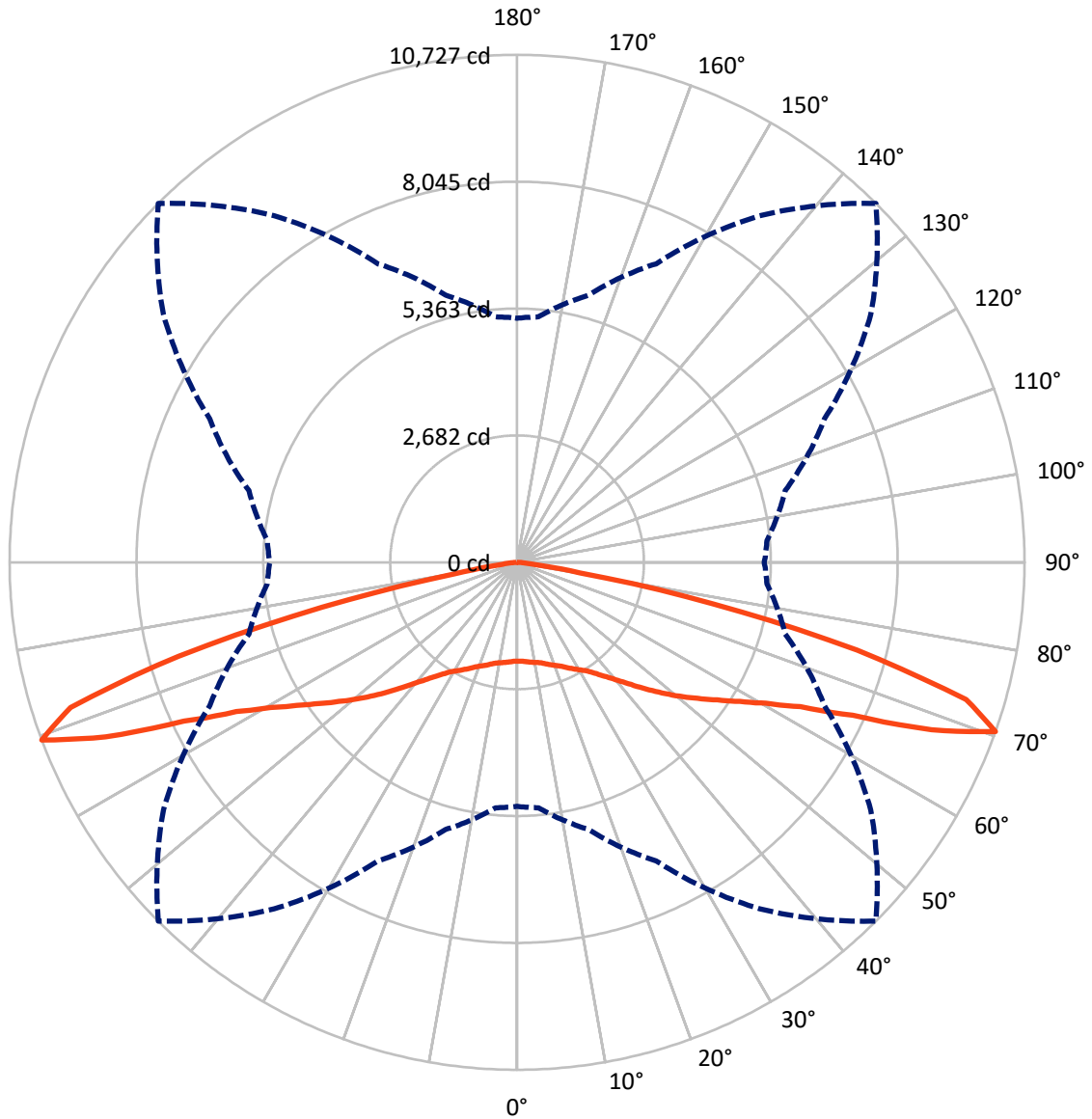
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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 70-Deg Vertical

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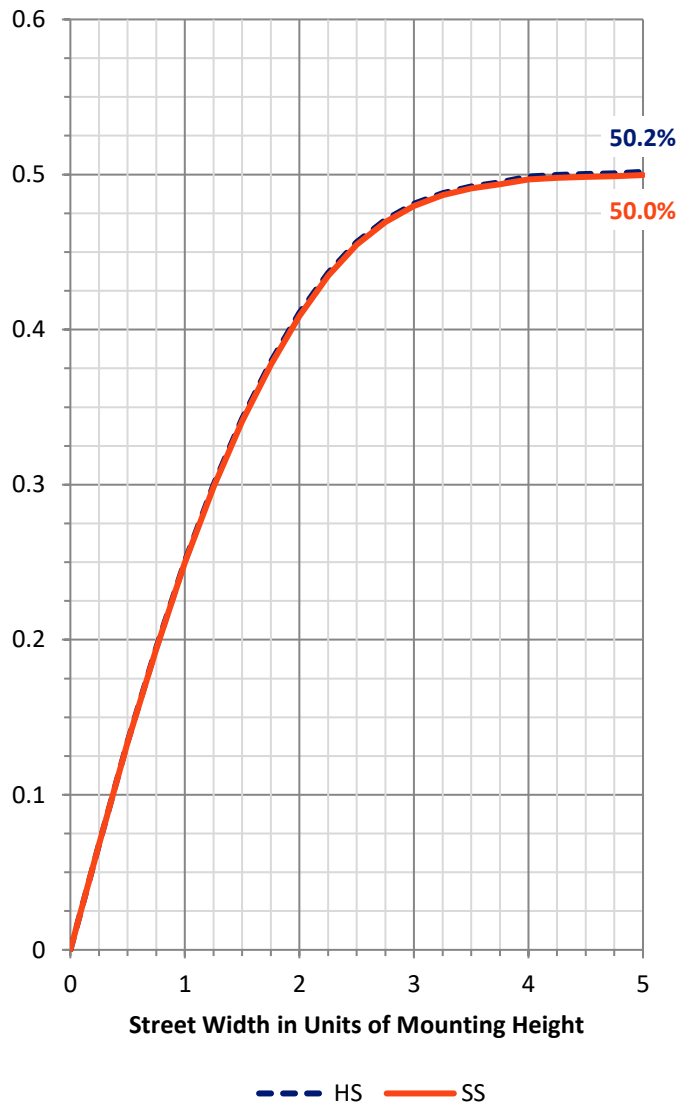
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10922.4	0.0	10922.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10922.4	0.0	10922.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21844.8	0.0	21844.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.3	0.9
10°-20°	630.4	2.9
20°-30°	1126.5	5.2
30°-40°	1826.1	8.4
40°-50°	2974.4	13.6
50°-60°	4535.0	20.8
60°-70°	6746.7	30.9
70°-80°	3677.1	16.8
80°-90°	125.2	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°	21844.8	100.0
0°-180°	21844.8	100.0

**Coefficient of Utilization**



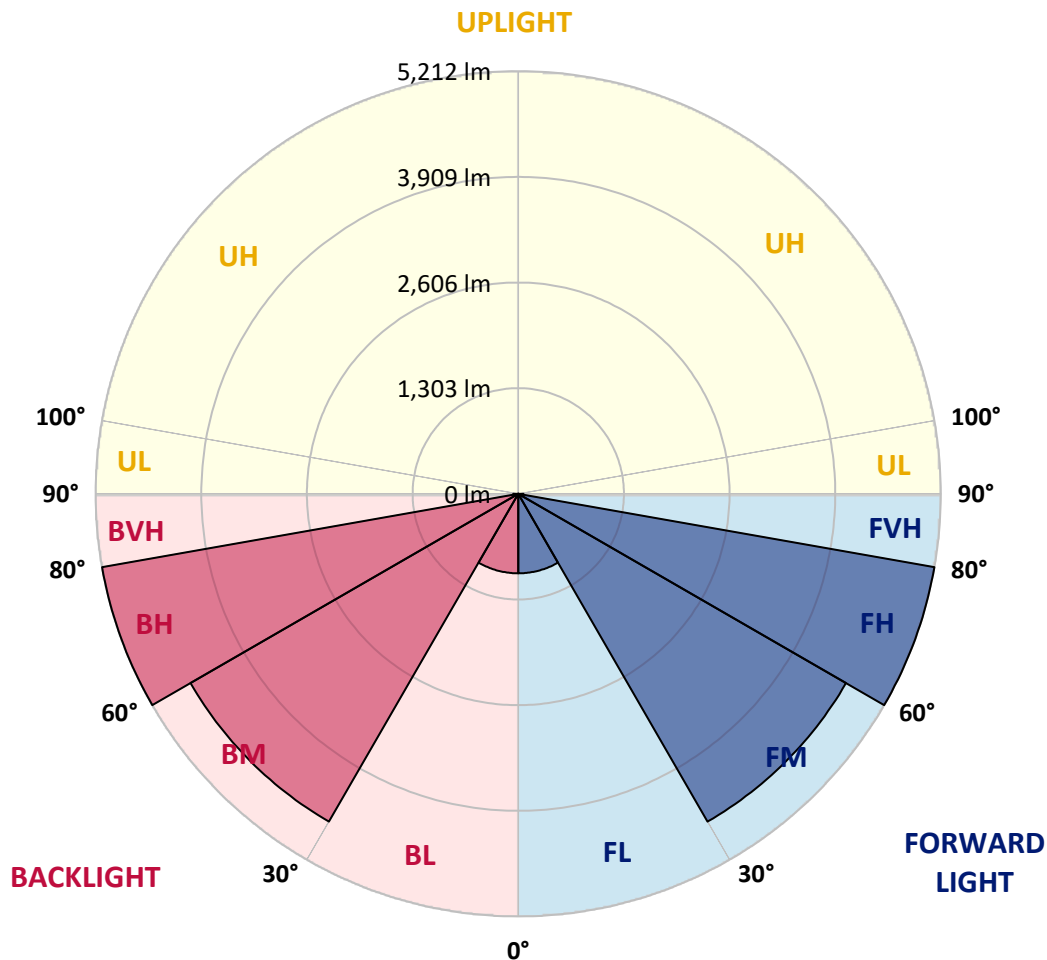
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	980.1	4.5			
FM (30°-60°)	4667.8	21.4			
FH (60°-80°)	5211.9	23.9			G3/7500
FVH (80°-90°)	62.6	0.3			G1/100
BL (0°-30°)	980.1	4.5	B2/1000		
BM (30°-60°)	4667.8	21.4	B3/5000		
BH (60°-80°)	5211.9	23.9	B5		G3/7500
BVH (80°-90°)	62.6	0.3			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°	90°
0°	2092.5	2092.5	2092.5	2092.5	2092.5	2092.5	2092.5	2092.5	2092.5	2092.5	2092.5
2.5°	2102.4	2104.5	2100.2	2098.0	2095.8	2092.5	2093.6	2099.1	2103.5	2102.4	2103.5
5°	2119.9	2122.2	2118.8	2117.8	2113.3	2112.2	2112.2	2117.8	2121.0	2118.8	2119.9
7.5°	2139.7	2143.0	2137.4	2136.4	2134.2	2132.0	2130.9	2136.4	2139.7	2139.7	2139.7
10°	2158.3	2161.6	2157.2	2153.9	2151.7	2151.7	2149.5	2153.9	2159.4	2158.3	2158.3
12.5°	2178.0	2180.3	2175.9	2173.6	2173.6	2177.0	2173.6	2175.9	2180.3	2178.0	2177.0
15°	2202.2	2203.2	2202.2	2205.5	2210.9	2221.9	2212.1	2209.9	2212.1	2206.5	2206.5
17.5°	2235.1	2237.3	2241.7	2249.4	2257.0	2276.7	2259.2	2253.8	2253.8	2242.8	2242.8
20°	2275.7	2279.0	2285.5	2298.7	2308.5	2327.2	2309.6	2301.9	2298.7	2284.4	2284.4
22.5°	2318.4	2323.9	2333.8	2351.4	2368.9	2386.4	2368.9	2355.8	2345.8	2327.2	2326.1
25°	2367.8	2374.3	2389.7	2418.2	2442.4	2467.6	2446.8	2420.4	2400.7	2374.3	2373.3
27.5°	2438.0	2445.6	2464.3	2499.4	2530.1	2552.0	2532.3	2498.3	2470.9	2439.1	2438.0
30°	2536.7	2544.4	2566.3	2603.6	2624.4	2638.7	2625.5	2599.2	2566.3	2530.1	2530.1
32.5°	2663.9	2673.7	2697.9	2733.0	2737.4	2739.5	2735.2	2722.0	2697.9	2654.0	2655.2
35°	2825.1	2836.1	2863.4	2892.0	2887.6	2892.0	2885.4	2881.1	2863.4	2813.0	2813.0
37.5°	3022.5	3035.6	3064.1	3086.1	3075.1	3069.7	3070.8	3071.8	3062.0	3006.0	3006.0
40°	3251.7	3269.2	3290.1	3313.1	3294.5	3278.1	3289.0	3297.7	3289.0	3231.9	3231.9
42.5°	3487.5	3512.8	3534.7	3567.6	3552.2	3531.3	3546.7	3556.6	3538.0	3476.5	3480.9
45°	3749.7	3773.7	3802.2	3851.6	3840.7	3818.7	3840.7	3842.8	3811.1	3738.7	3746.4
47.5°	4020.5	4045.8	4088.5	4154.3	4149.9	4125.8	4154.3	4139.0	4098.4	4011.7	4006.2
50°	4277.1	4312.3	4378.0	4470.1	4478.9	4449.3	4487.7	4458.1	4390.1	4281.5	4279.4
52.5°	4518.4	4555.7	4659.9	4784.9	4816.7	4778.3	4829.9	4778.3	4676.4	4537.1	4523.9
55°	4771.8	4813.4	4937.3	5100.7	5164.4	5135.9	5184.1	5106.2	4961.5	4792.6	4769.5
57.5°	5070.1	5095.3	5243.3	5437.4	5544.9	5551.5	5573.4	5441.8	5266.3	5074.5	5048.1
60°	5393.5	5428.7	5589.8	5822.4	5992.4	6047.2	6024.1	5829.0	5625.0	5404.5	5369.5
62.5°	5808.2	5846.5	6039.5	6318.1	6586.8	6722.8	6632.9	6349.9	6097.6	5833.4	5787.3
65°	6151.4	6194.2	6542.9	7039.7	7528.8	7801.9	7576.0	7055.1	6601.0	6228.2	6166.7
67.5°	5902.5	5955.0	6502.3	7414.7	8631.0	9445.9	8672.7	7526.7	6637.3	6131.7	6056.0
70°	5158.9	5208.2	5846.5	6961.9	8941.4	10726.8	9127.8	7166.9	5867.3	5301.4	5225.8
72.5°	3425.0	3584.0	4230.0	5567.9	7984.0	9926.2	8063.0	5454.9	3924.0	3417.4	3306.5
75°	1136.2	1263.4	1704.3	2886.5	5347.5	7423.6	5090.9	2554.2	1350.0	971.7	919.0
77.5°	286.3	330.2	455.1	825.8	2133.1	4226.7	1920.3	674.4	367.4	256.7	229.2
80°	139.3	153.5	219.4	275.3	534.1	1343.5	501.2	258.8	173.3	133.8	122.8
82.5°	76.8	77.9	123.9	155.7	198.5	347.7	206.2	151.4	99.8	81.2	81.2
85°	47.2	46.0	65.8	83.3	83.3	123.9	98.7	83.3	57.0	50.4	52.7
87.5°	18.7	18.7	24.1	26.3	23.1	31.8	25.2	27.4	21.9	20.8	21.9
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)