

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: P963419

Luminaire Tested: **NAV-SB3A-722-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P963419  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3A-722-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11274 lumens  
Efficiency: N/A  
Efficacy: 133.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3

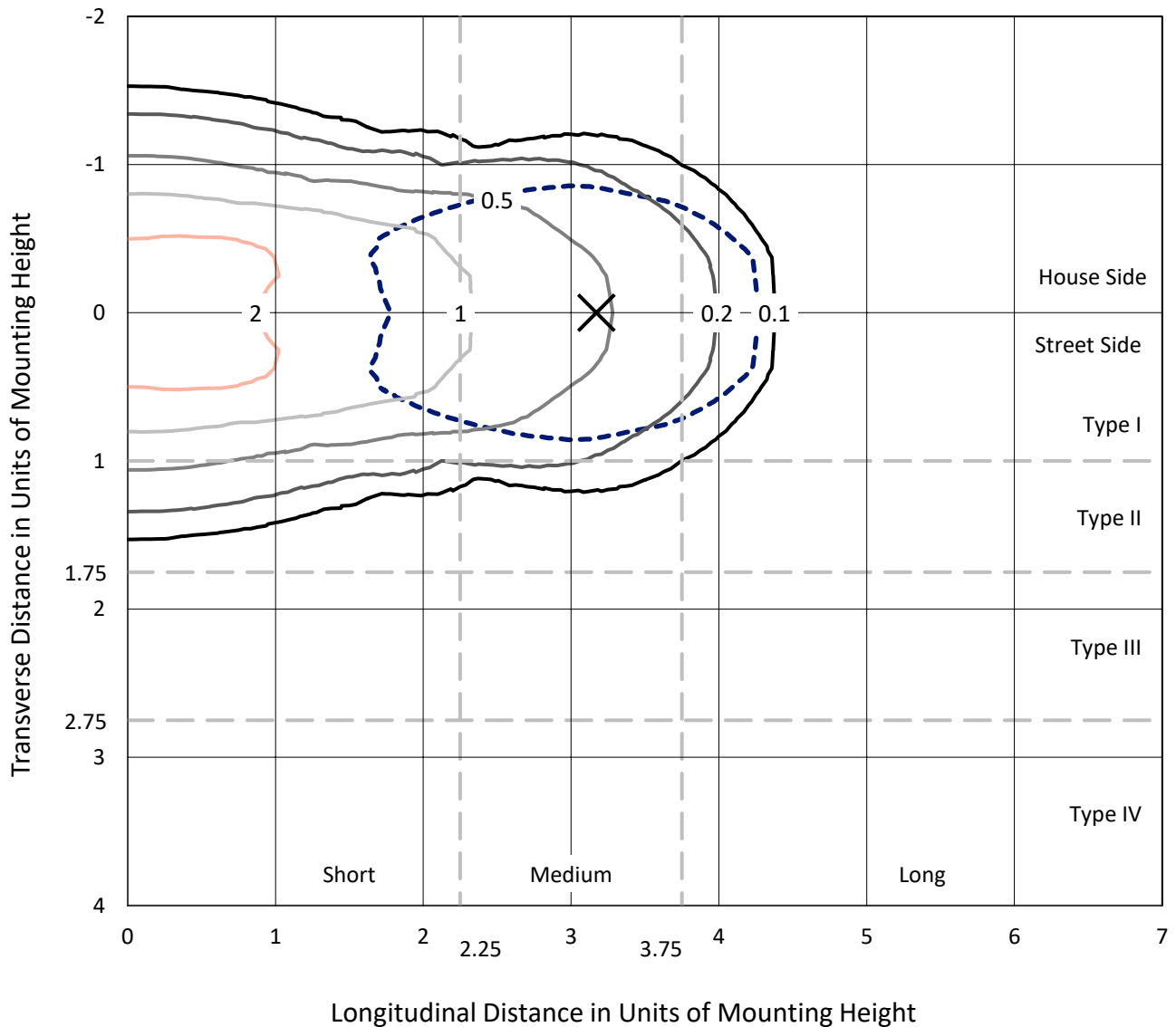
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

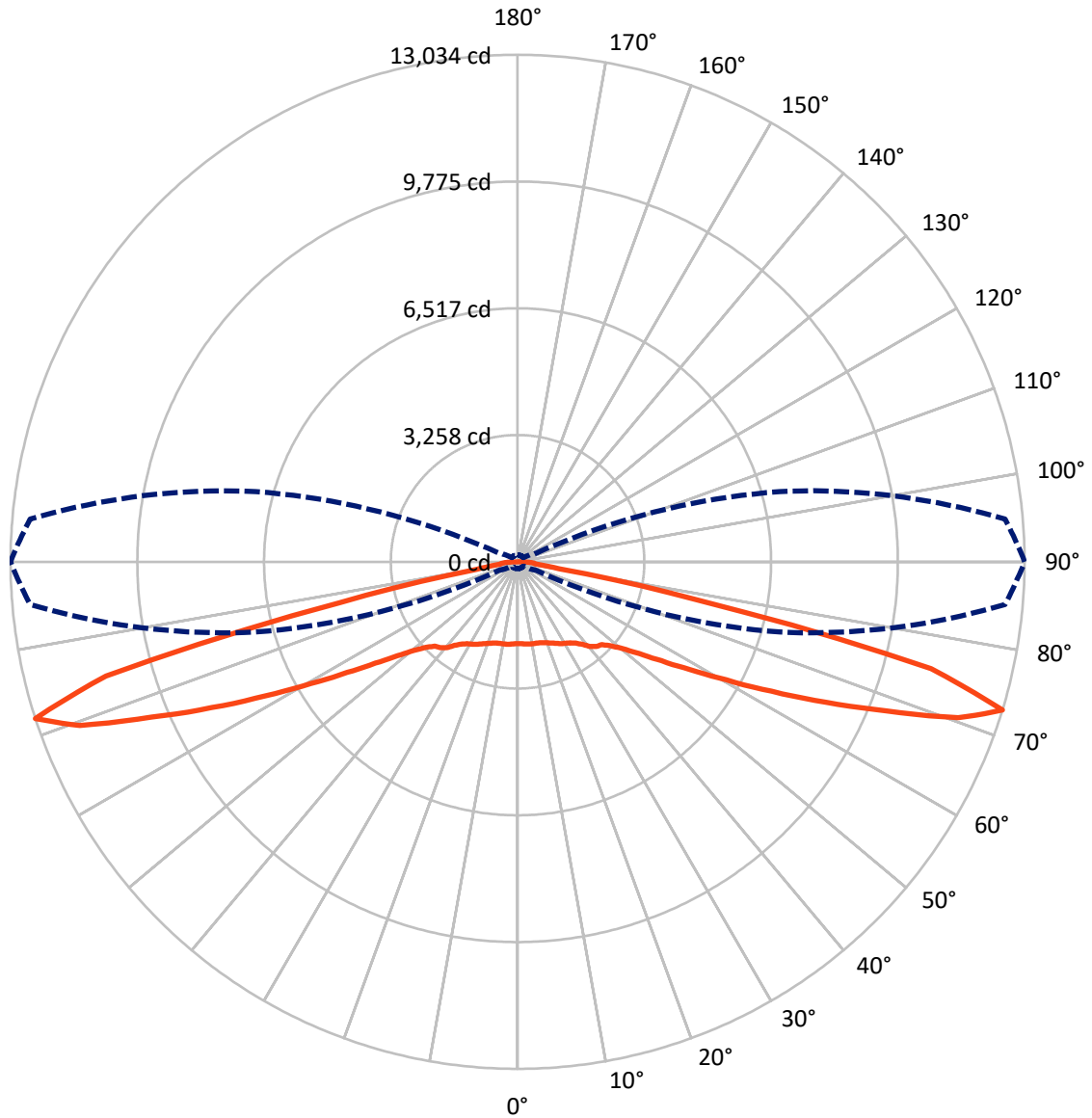
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5637.0	0.0	5637.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5637.0	0.0	5637.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11274.0	0.0	11274.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.3	1.8
10°-20°	624.6	5.5
20°-30°	1041.4	9.2
30°-40°	1432.2	12.7
40°-50°	1749.2	15.5
50°-60°	2023.1	17.9
60°-70°	2412.2	21.4
70°-80°	1683.6	14.9
80°-90°	103.4	0.9
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°	11274.0	100.0
0°-180°	11274.0	100.0

**Coefficient of Utilization**



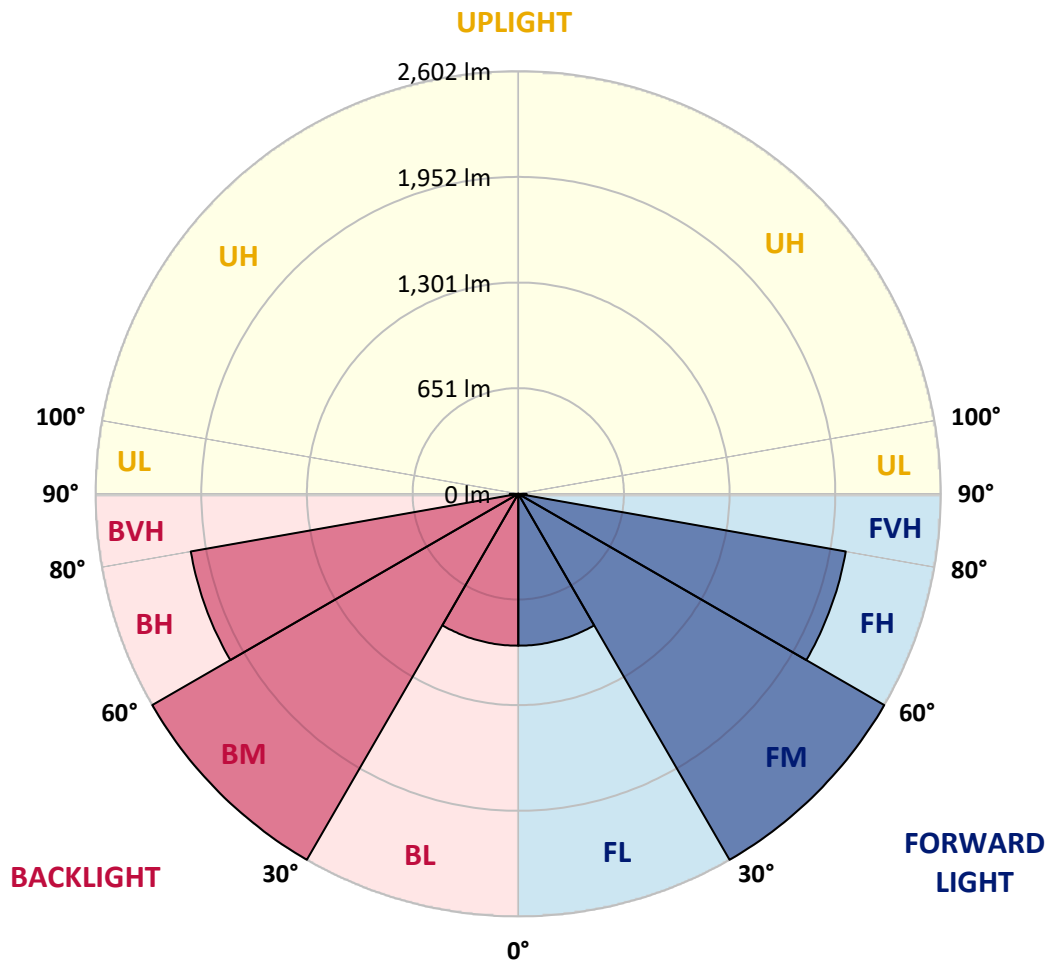
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	935.1	8.3			
FM (30°-60°)	2602.3	23.1			
FH (60°-80°)	2047.9	18.2			G2/5000
FVH (80°-90°)	51.7	0.5			G1/100
BL (0°-30°)	935.1	8.3	B2/1000		
BM (30°-60°)	2602.3	23.1	B3/5000		
BH (60°-80°)	2047.9	18.2	B3/2500		G3/2500
BVH (80°-90°)	51.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2106.7	2106.7	2106.7	2106.7	2106.7	2106.7	2106.7	2106.7	2106.7	2106.7	2106.7
2.5°	2108.4	2110.9	2110.9	2109.0	2113.2	2109.7	2109.7	2107.8	2109.7	2107.8	2107.8
5°	2119.3	2122.3	2123.4	2122.9	2128.2	2125.2	2125.2	2122.9	2123.4	2121.6	2121.6
7.5°	2139.6	2143.8	2146.2	2149.2	2157.0	2153.4	2151.0	2143.8	2140.8	2136.0	2136.0
10°	2146.2	2151.0	2158.8	2174.3	2192.4	2193.0	2185.7	2167.8	2154.0	2143.2	2141.4
12.5°	2125.8	2132.4	2148.6	2180.4	2220.5	2236.7	2225.3	2195.3	2168.4	2149.2	2146.2
15°	2100.0	2107.3	2131.8	2179.8	2239.1	2276.8	2275.6	2236.0	2193.0	2163.0	2158.2
17.5°	2059.9	2067.1	2102.5	2169.6	2253.5	2315.8	2332.6	2291.8	2231.3	2191.1	2184.6
20°	1987.5	1994.0	2043.1	2137.2	2258.3	2357.1	2400.9	2364.9	2289.4	2234.9	2224.7
22.5°	1893.4	1903.5	1961.0	2081.5	2246.9	2400.2	2478.8	2454.2	2357.1	2281.6	2267.8
25°	1792.7	1803.5	1870.6	2013.2	2217.5	2431.4	2571.0	2555.4	2433.8	2339.8	2320.6
27.5°	1705.8	1717.2	1790.3	1945.4	2172.0	2443.4	2662.1	2669.9	2526.6	2403.8	2383.4
30°	1637.5	1648.3	1726.2	1890.9	2113.2	2431.4	2741.8	2795.7	2621.3	2459.6	2430.2
32.5°	1562.6	1576.4	1658.4	1824.5	2043.7	2402.6	2811.3	2931.7	2731.0	2519.4	2482.3
35°	1467.9	1480.5	1566.8	1733.4	1952.6	2356.5	2869.4	3082.7	2887.9	2610.6	2569.3
37.5°	1352.9	1364.9	1450.6	1619.5	1862.2	2291.8	2913.8	3252.8	3074.9	2741.8	2686.6
40°	1237.3	1248.7	1328.9	1492.5	1753.8	2209.1	2929.3	3419.4	3289.4	2922.2	2863.4
42.5°	1131.2	1141.4	1215.1	1367.2	1632.1	2103.7	2909.0	3564.4	3481.7	3047.9	2972.5
45°	1033.5	1042.5	1107.8	1249.9	1505.7	1975.5	2847.9	3720.2	3710.6	3137.8	3035.9
47.5°	922.1	931.1	998.8	1136.0	1379.2	1825.0	2744.1	3873.6	4028.8	3341.5	3224.1
50°	786.1	793.9	863.4	1004.8	1248.0	1665.1	2600.3	3994.0	4430.3	3650.1	3502.7
52.5°	624.9	633.3	701.0	842.4	1092.2	1493.1	2411.0	4072.5	4894.0	4100.7	3919.1
55°	464.9	471.0	529.6	656.7	899.3	1297.2	2173.7	4094.7	5420.0	4716.6	4489.5
57.5°	337.3	340.9	378.6	473.3	681.8	1052.2	1885.6	4037.2	6046.2	5506.3	5220.5
60°	273.3	274.4	285.8	327.7	474.0	775.3	1537.5	3839.4	6725.6	6524.3	6164.2
62.5°	248.0	248.0	251.0	262.4	320.5	511.7	1116.2	3429.6	7454.2	7810.7	7328.3
65°	230.7	230.7	231.9	237.3	252.9	326.0	704.6	2762.2	8068.4	9317.6	8707.7
67.5°	215.1	215.7	215.1	216.9	225.9	240.9	408.7	1907.7	8399.1	10879.0	10220.6
70°	199.0	200.1	197.1	197.1	204.3	204.9	255.8	1046.1	8124.7	12187.6	12014.4
72.5°	179.8	181.5	176.7	175.6	180.9	178.6	192.3	502.1	6975.4	12578.3	13033.6
75°	163.0	165.3	154.6	151.6	151.6	149.8	156.4	257.7	4527.3	10260.7	10974.9
77.5°	148.0	152.8	135.4	125.9	123.4	118.1	127.6	157.5	1980.2	4817.3	4717.3
80°	122.2	128.8	111.4	100.0	95.8	89.9	100.7	110.3	589.0	1118.7	1071.3
82.5°	91.1	94.1	79.1	71.3	67.8	63.6	75.5	76.7	191.8	396.1	447.6
85°	58.1	59.3	48.5	41.9	40.2	38.3	48.0	41.9	73.1	291.2	423.0
87.5°	20.4	23.4	18.6	16.8	17.9	15.0	22.1	12.6	20.4	205.5	254.6
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)