

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: P968148

Luminaire Tested: **NAV-SB5B-722-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968148
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5B-722-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24362.2 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

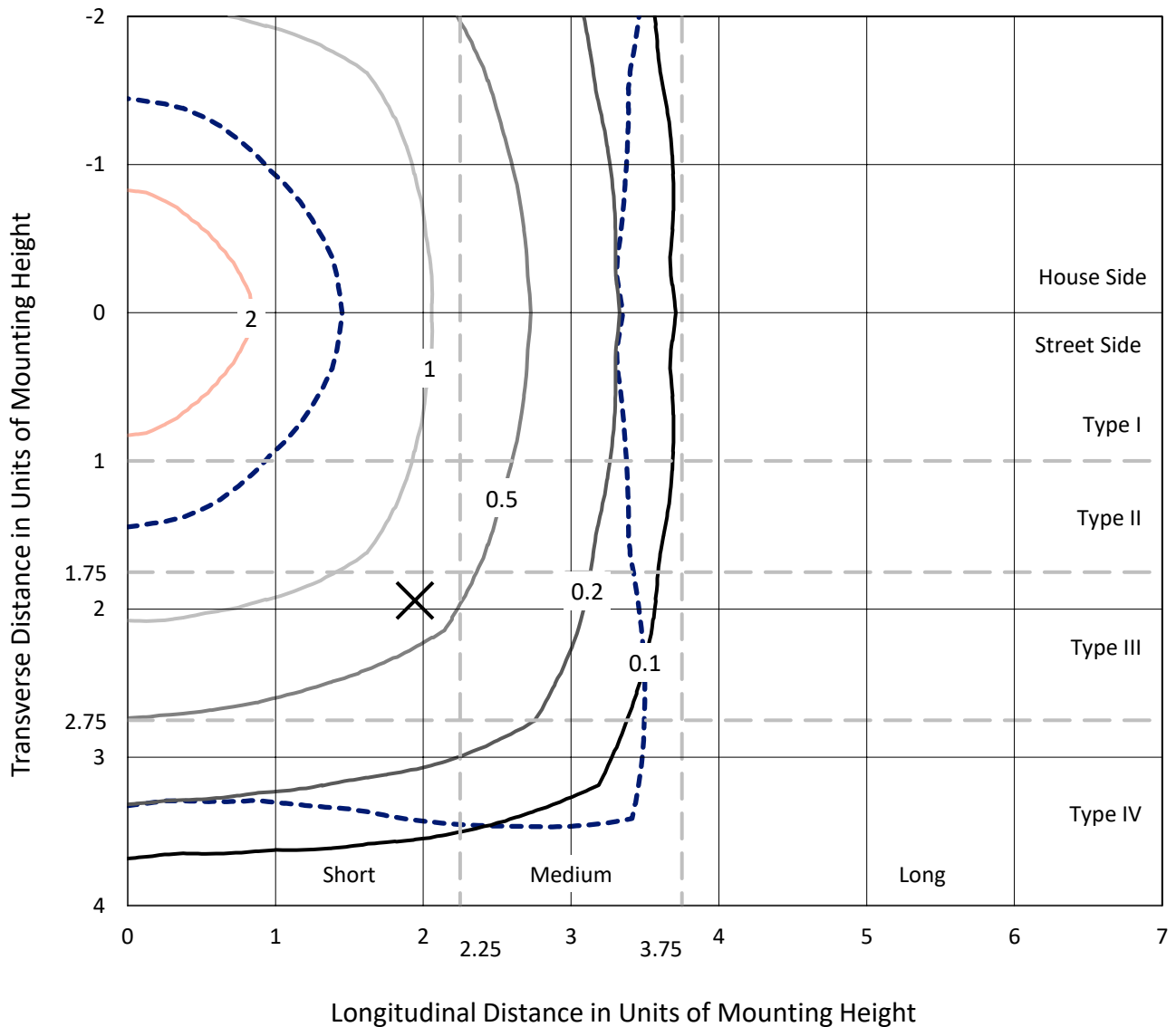
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

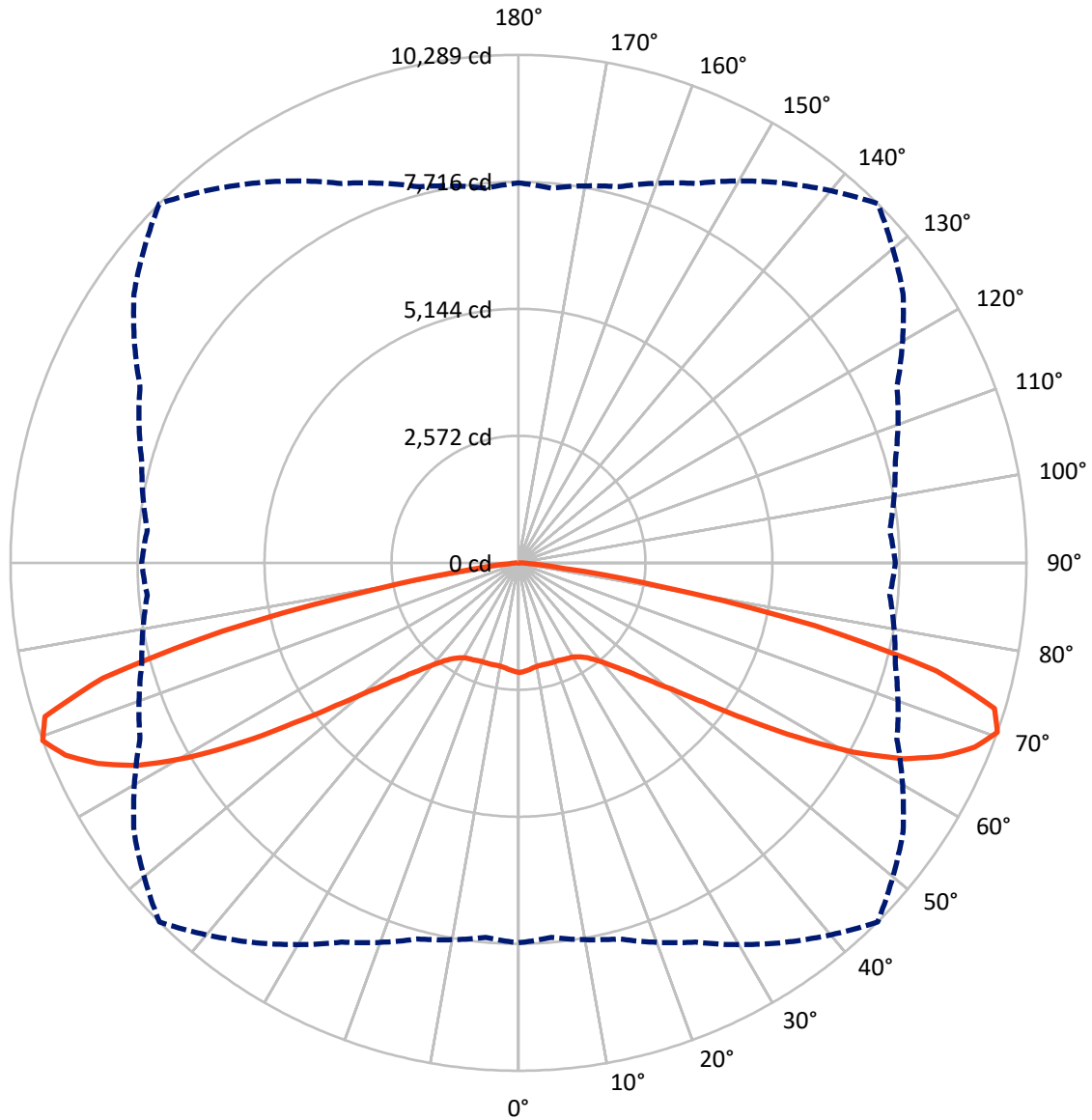
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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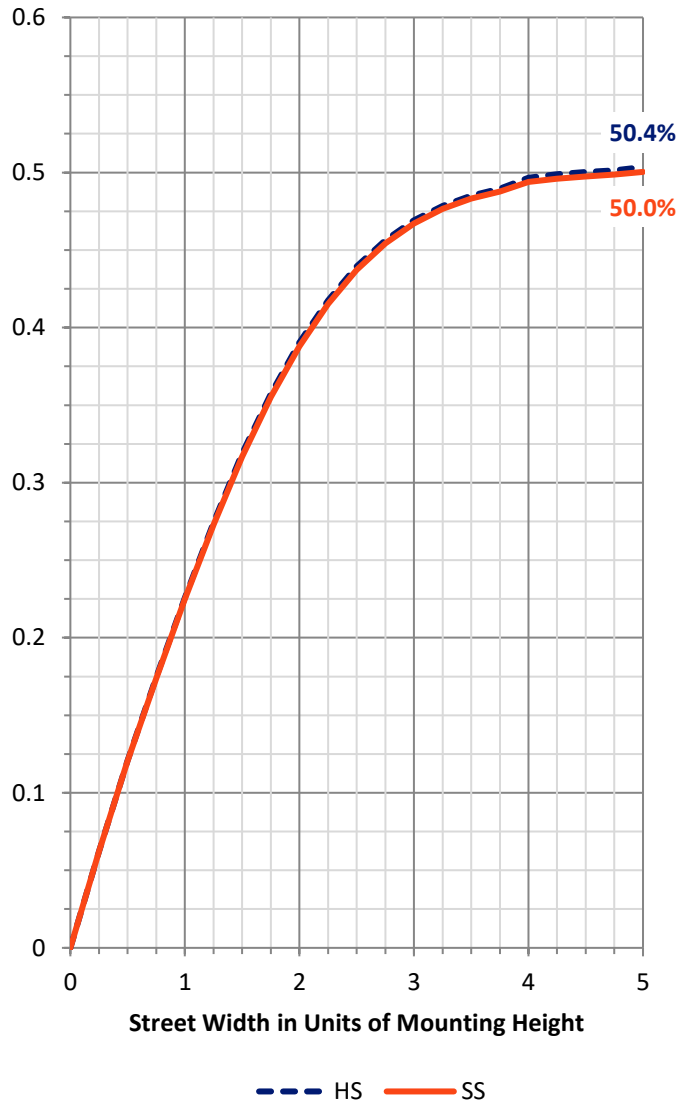
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12181.1	0.0	12181.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12181.1	0.0	12181.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	24362.2	0.0	24362.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.7	0.8
10°-20°	607.0	2.5
20°-30°	1010.1	4.1
30°-40°	1527.6	6.3
40°-50°	2538.6	10.4
50°-60°	4790.2	19.7
60°-70°	8088.5	33.2
70°-80°	5315.0	21.8
80°-90°	278.4	1.1
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°	24362.2	100.0
0°-180°	24362.2	100.0

Coefficient of Utilization



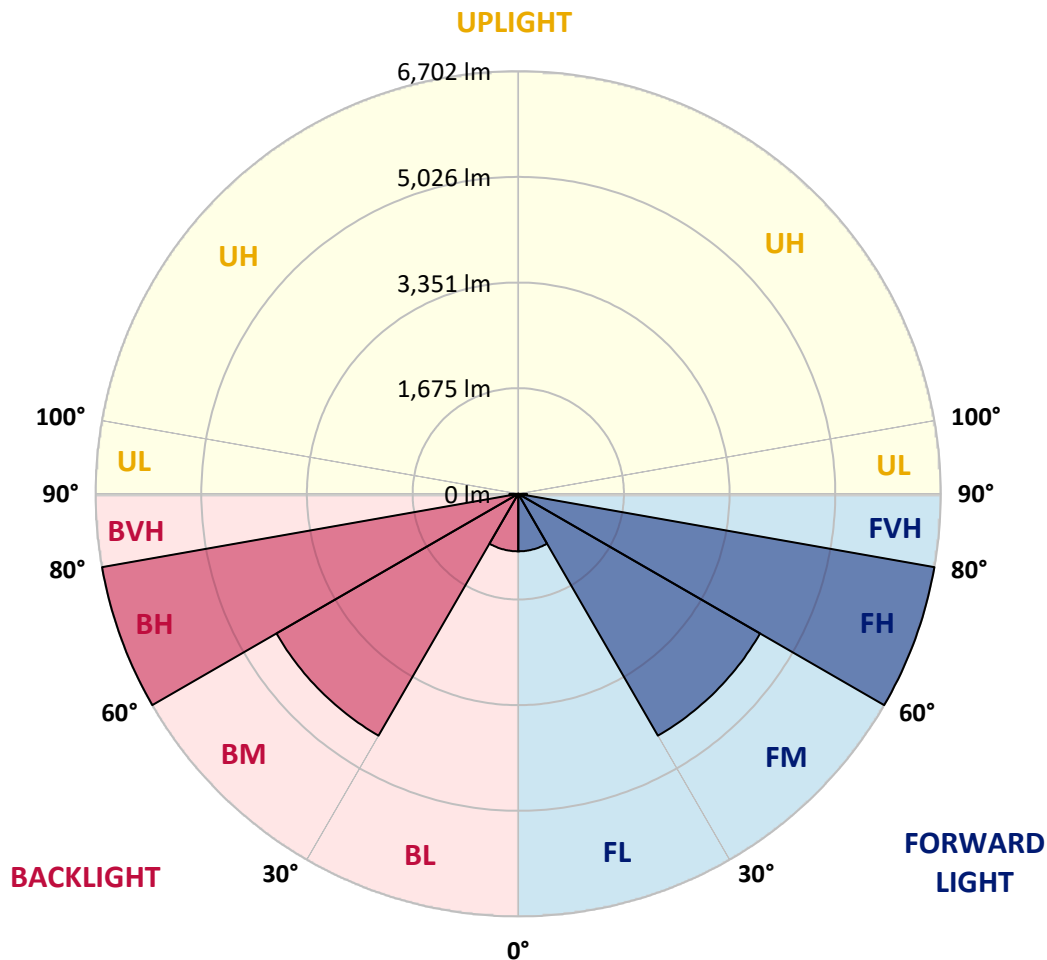
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	911.9	3.7			
FM (30°-60°)	4428.2	18.2			
FH (60°-80°)	6701.7	27.5			G3/7500
FVH (80°-90°)	139.2	0.6			G2/225
BL (0°-30°)	911.9	3.7	B2/1000		
BM (30°-60°)	4428.2	18.2	B3/5000		
BH (60°-80°)	6701.7	27.5	B5		G3/7500
BVH (80°-90°)	139.2	0.6			G2/225
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°	2222.3	2222.3	2222.3	2222.3	2222.3	2222.3	2222.3	2222.3	2222.3	2222.3	2222.3
2.5°	2208.4	2214.7	2212.2	2207.1	2207.1	2203.3	2207.1	2209.7	2213.5	2215.9	2214.7
5°	2179.3	2184.4	2183.0	2179.3	2180.6	2176.7	2179.3	2183.0	2185.6	2186.8	2186.8
7.5°	2153.9	2159.1	2156.5	2150.1	2150.1	2146.4	2147.6	2151.4	2155.2	2156.5	2156.5
10°	2147.6	2152.7	2145.1	2135.0	2131.2	2126.1	2127.4	2131.2	2138.8	2142.6	2142.6
12.5°	2150.1	2153.9	2146.4	2131.2	2127.4	2122.3	2122.3	2126.1	2136.2	2141.3	2142.6
15°	2157.7	2161.5	2150.1	2133.6	2129.8	2126.1	2124.8	2129.8	2141.3	2150.1	2151.4
17.5°	2171.7	2175.5	2157.7	2135.0	2129.8	2131.2	2129.8	2133.6	2151.4	2167.9	2167.9
20°	2184.4	2186.8	2162.9	2135.0	2129.8	2131.2	2129.8	2137.4	2160.3	2183.0	2184.4
22.5°	2188.2	2190.6	2167.9	2143.8	2140.0	2141.3	2140.0	2147.6	2169.1	2192.0	2192.0
25°	2189.4	2193.2	2175.5	2156.5	2162.9	2165.3	2162.9	2164.1	2180.6	2200.8	2199.5
27.5°	2208.4	2213.5	2197.0	2180.6	2184.4	2183.0	2186.8	2190.6	2203.3	2223.6	2218.5
30°	2247.6	2251.4	2237.5	2221.1	2218.5	2209.7	2221.1	2233.7	2247.6	2265.4	2261.6
32.5°	2312.2	2319.8	2302.1	2284.4	2272.9	2267.9	2276.7	2298.3	2317.3	2336.3	2328.7
35°	2419.8	2424.9	2408.4	2375.5	2355.2	2355.2	2362.8	2390.7	2421.2	2445.1	2436.3
37.5°	2571.8	2578.2	2549.1	2509.8	2479.4	2479.4	2489.5	2518.6	2564.2	2598.4	2585.8
40°	2756.7	2765.6	2728.9	2688.3	2659.2	2654.1	2666.7	2699.7	2742.8	2785.8	2771.9
42.5°	2979.6	2989.7	2941.5	2906.1	2883.3	2883.3	2889.7	2920.0	2959.3	3012.5	3008.7
45°	3264.5	3282.2	3216.3	3180.9	3159.4	3164.5	3168.3	3194.8	3230.3	3291.1	3288.5
47.5°	3603.8	3621.5	3551.9	3515.2	3511.4	3535.4	3520.3	3539.2	3558.3	3627.9	3607.6
50°	3988.8	4019.1	3971.1	3968.5	3976.1	4020.5	3985.0	3995.1	3973.6	4017.9	3991.3
52.5°	4459.9	4504.2	4495.3	4510.5	4595.4	4686.5	4605.4	4570.0	4489.0	4502.9	4456.1
55°	5030.9	5098.0	5110.8	5201.9	5394.4	5580.5	5408.3	5265.2	5093.0	5061.3	5011.9
57.5°	5680.5	5733.7	5794.5	5980.7	6340.2	6670.8	6340.2	6023.7	5752.7	5688.1	5642.5
60°	6379.5	6445.4	6503.6	6778.4	7312.8	7777.5	7302.6	6800.0	6441.6	6354.2	6278.2
62.5°	7130.4	7215.3	7255.8	7561.0	8184.0	8738.6	8192.8	7583.8	7186.2	7092.5	7016.4
65°	7851.0	7920.6	7966.2	8291.6	8886.8	9442.6	8927.2	8327.1	7918.0	7795.2	7734.4
67.5°	8186.5	8224.5	8335.9	8704.4	9332.5	9966.9	9438.8	8743.7	8286.5	8071.3	8073.8
70°	7695.2	7617.9	7886.4	8476.4	9385.7	10288.5	9507.3	8458.7	7899.1	7549.5	7633.2
72.5°	5946.4	5813.5	6279.5	7288.7	8777.9	10083.4	8838.7	7345.7	6569.4	5860.3	6036.3
75°	3235.3	3084.6	3727.9	5004.4	7000.0	8739.9	7160.9	5147.4	4150.8	3211.3	3420.2
77.5°	913.0	856.0	1375.1	2421.2	4210.4	6136.4	4372.4	2474.4	1631.0	967.4	1075.1
80°	279.8	271.0	367.3	729.4	1788.0	2939.1	1718.3	738.2	467.3	295.0	311.5
82.5°	165.8	151.9	182.3	265.9	455.8	923.1	443.2	277.4	222.8	149.4	162.1
85°	95.0	88.7	107.6	129.1	153.2	196.3	127.9	131.7	119.0	79.7	83.5
87.5°	39.3	35.5	41.8	40.5	35.5	45.6	34.2	40.5	48.1	31.7	29.1
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)