

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: P962881

Luminaire Tested: **NAV-SB2D-722-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P962881  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2D-722-U-RW  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17743.8 lumens  
Efficiency: N/A  
Efficacy: 120.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G4

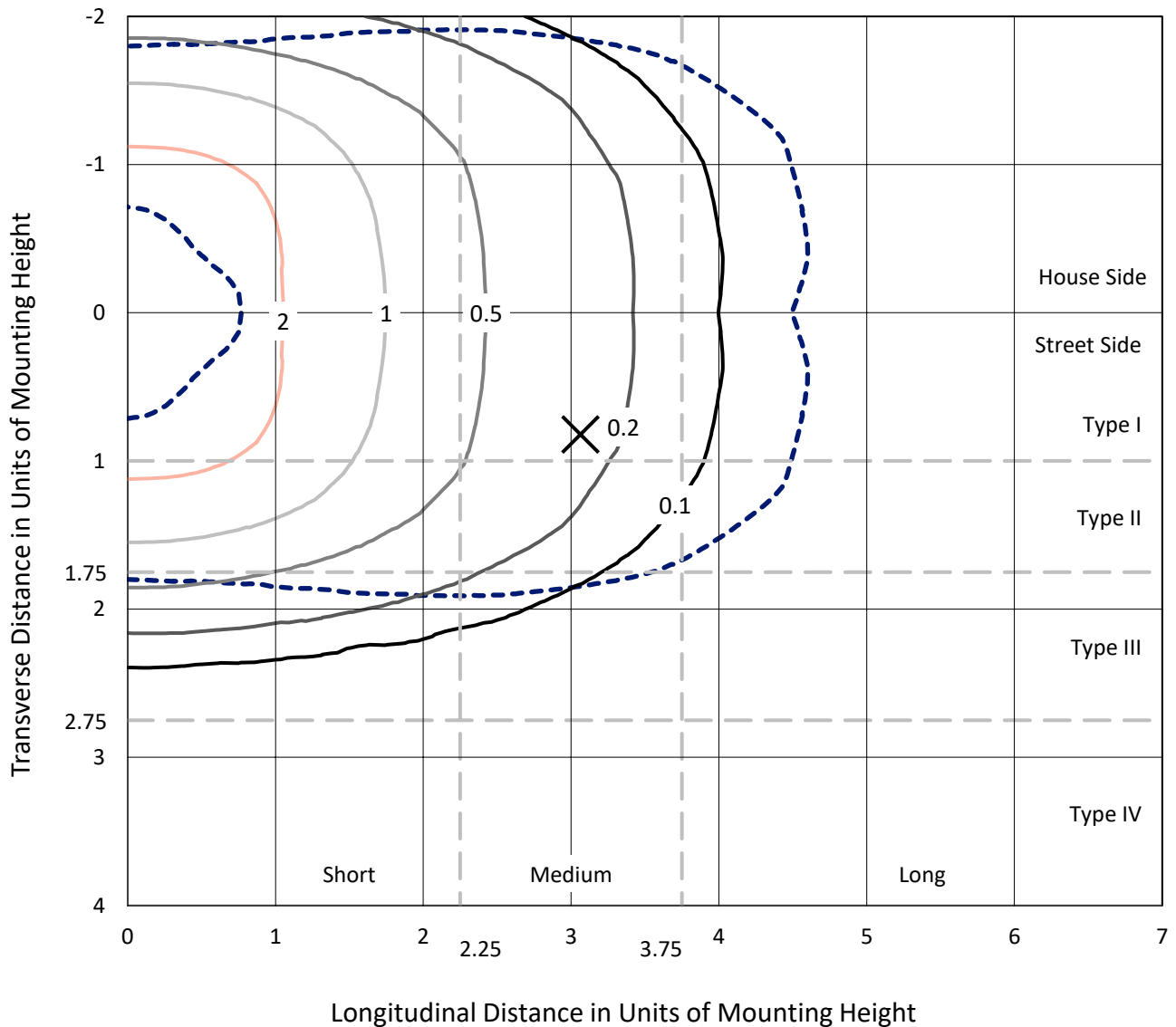
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

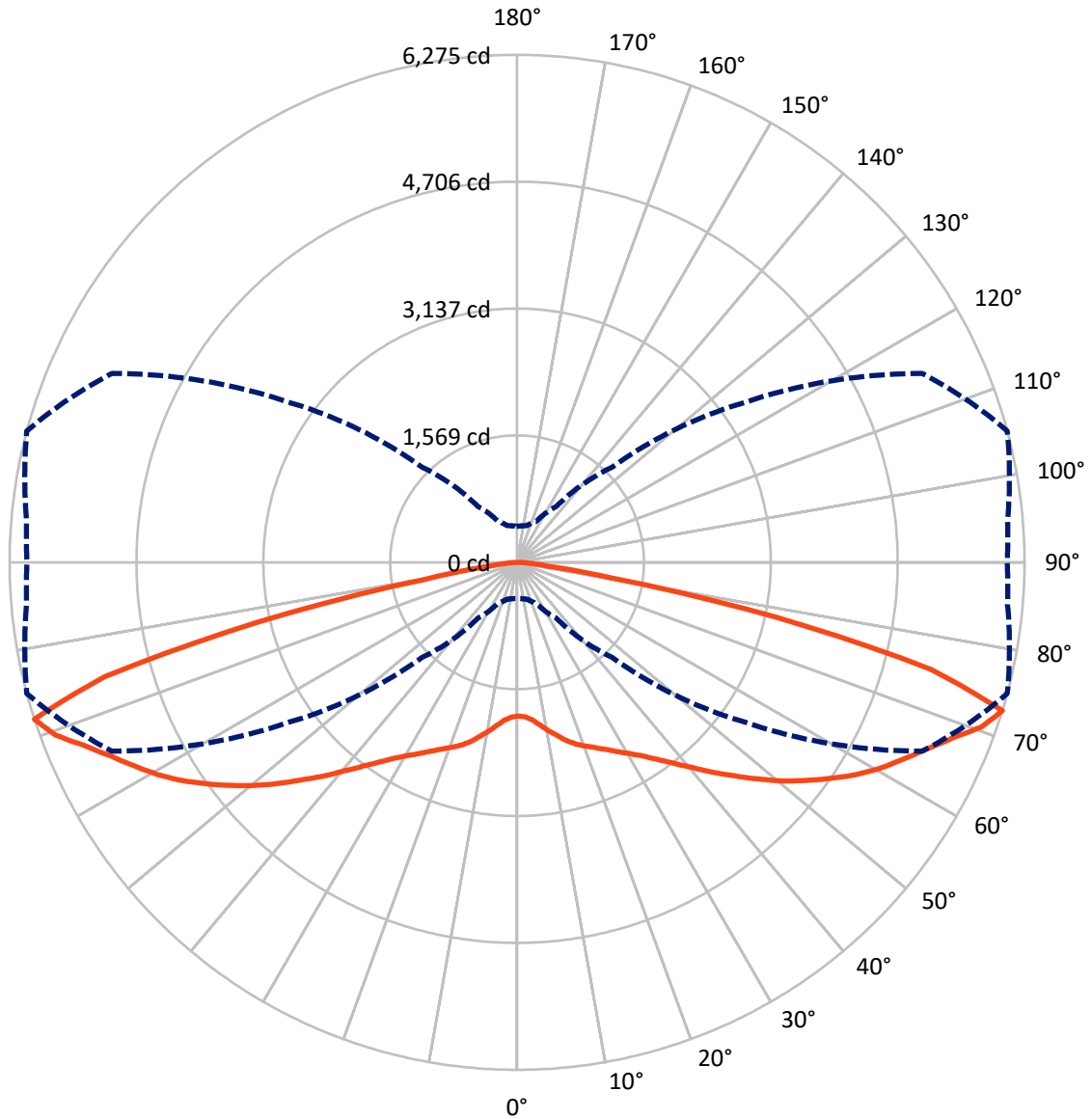
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type III - Medium - N/A

REPORT NUMBER: P962881  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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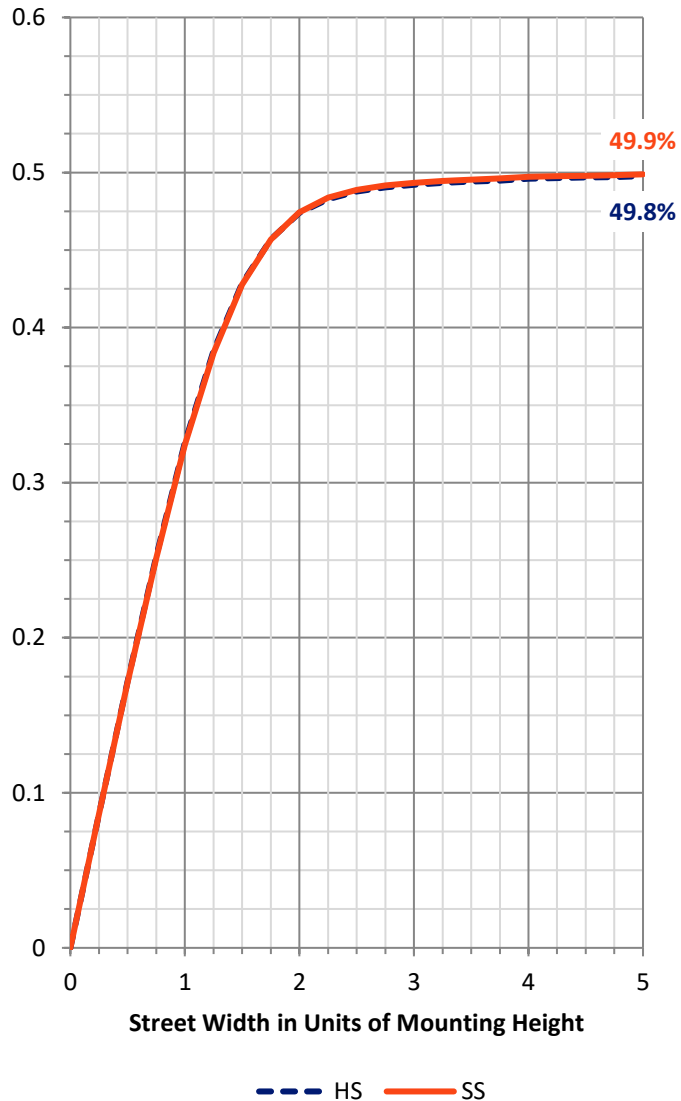
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8871.9	0.0	8871.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8871.9	0.0	8871.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	17743.8	0.0	17743.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.2	1.0
10°-20°	614.1	3.5
20°-30°	1186.6	6.7
30°-40°	2003.6	11.3
40°-50°	3177.5	17.9
50°-60°	4254.3	24.0
60°-70°	4048.8	22.8
70°-80°	2112.7	11.9
80°-90°	159.9	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°	17743.8	100.0
0°-180°	17743.8	100.0

**Coefficient of Utilization**



REPORT NUMBER: P962881

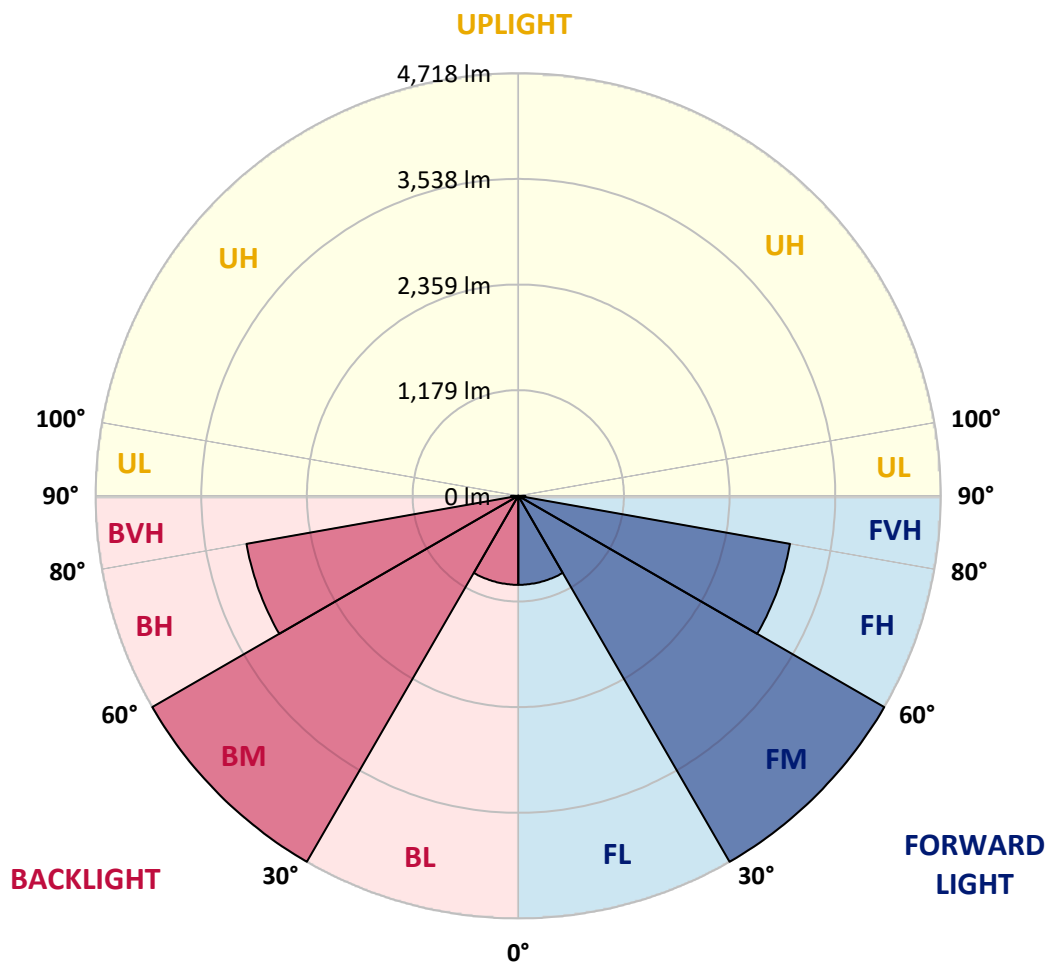
CATALOG NUMBER: NAV-SB2D-722-U-RW

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	993.4	5.6			
FM (30°-60°)	4717.7	26.6			
FH (60°-80°)	3080.7	17.4			G2/5000
FVH (80°-90°)	80.0	0.5			G1/100
BL (0°-30°)	993.4	5.6	B2/1000		
BM (30°-60°)	4717.7	26.6	B3/5000		
BH (60°-80°)	3080.7	17.4	B4/5000		G4/5000
BVH (80°-90°)	80.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1900.7	1900.7	1900.7	1900.7	1900.7	1900.7	1900.7	1900.7	1900.7	1900.7	1900.7
2.5°	1900.7	1898.9	1900.7	1902.5	1901.6	1901.6	1906.1	1908.9	1914.3	1913.4	1912.4
5°	1887.9	1887.1	1894.3	1902.5	1908.9	1919.7	1933.3	1943.3	1955.9	1958.7	1958.7
7.5°	1881.7	1878.9	1891.6	1906.1	1926.1	1953.2	1979.5	2006.6	2028.4	2035.6	2037.5
10°	1886.2	1887.1	1904.3	1931.5	1963.2	2001.2	2038.4	2084.5	2115.4	2122.7	2129.8
12.5°	1907.0	1905.2	1934.2	1977.6	2021.2	2069.2	2112.6	2163.4	2196.9	2214.1	2221.4
15°	1945.0	1941.5	1982.2	2046.5	2110.0	2166.1	2201.5	2249.5	2288.4	2310.1	2318.3
17.5°	1990.3	1992.2	2045.6	2128.9	2212.4	2275.7	2309.2	2333.7	2363.6	2382.6	2391.7
20°	2070.1	2073.7	2133.5	2232.2	2327.4	2399.8	2427.0	2418.0	2426.2	2440.6	2451.5
22.5°	2177.0	2178.8	2245.9	2352.8	2452.4	2532.2	2550.2	2513.1	2490.4	2500.4	2507.7
25°	2301.1	2312.9	2379.9	2489.5	2591.9	2668.0	2676.2	2620.0	2563.8	2566.5	2571.1
27.5°	2452.4	2463.3	2531.2	2639.9	2744.1	2810.2	2809.3	2734.2	2651.7	2630.9	2637.2
30°	2616.4	2628.1	2697.9	2810.2	2907.2	2965.1	2952.5	2862.8	2745.1	2706.1	2710.6
32.5°	2811.2	2818.4	2889.1	3001.4	3091.1	3137.3	3111.0	3000.5	2853.7	2809.3	2820.2
35°	3046.7	3057.6	3110.2	3216.1	3295.0	3333.0	3288.6	3158.1	2993.2	2943.4	2950.7
37.5°	3315.8	3308.5	3368.4	3462.6	3527.7	3551.3	3490.6	3335.7	3152.7	3093.8	3104.7
40°	3596.6	3593.0	3658.2	3748.8	3784.1	3798.6	3709.0	3539.5	3336.6	3273.2	3294.0
42.5°	3851.1	3848.5	3936.3	4036.9	4079.5	4063.2	3949.9	3756.0	3549.5	3477.0	3495.1
45°	4055.0	4051.4	4159.2	4300.5	4383.9	4356.7	4204.4	3995.2	3765.1	3689.9	3707.1
47.5°	4211.7	4213.6	4329.5	4504.4	4650.2	4660.2	4464.5	4238.9	4002.5	3917.3	3942.7
50°	4325.0	4330.4	4454.5	4648.4	4847.7	4935.6	4730.0	4489.0	4248.0	4152.0	4181.0
52.5°	4353.1	4363.0	4512.6	4739.9	4974.5	5142.1	5000.0	4729.0	4480.8	4389.4	4412.8
55°	4203.6	4223.5	4412.8	4732.6	5052.4	5278.0	5237.2	4972.8	4715.4	4621.2	4647.6
57.5°	3860.3	3888.3	4109.3	4527.0	5035.2	5371.3	5421.2	5206.5	4950.1	4859.5	4880.3
60°	3379.2	3412.7	3624.7	4080.4	4792.5	5405.7	5550.8	5433.8	5165.7	5077.8	5096.8
62.5°	2653.5	2697.0	2950.7	3485.2	4279.7	5245.4	5661.3	5639.5	5359.6	5249.9	5262.7
65°	1702.3	1748.4	2015.8	2647.2	3595.7	4754.4	5695.7	5839.7	5564.3	5411.2	5430.2
67.5°	1026.4	1047.2	1179.6	1604.4	2628.1	4014.2	5404.0	6061.6	5803.4	5613.2	5627.8
70°	656.8	668.6	747.4	942.2	1485.7	2928.9	4681.1	6103.4	6093.4	5820.7	5818.9
72.5°	445.8	449.4	470.2	558.1	840.7	1664.2	3452.6	5525.4	6274.5	6088.0	6059.0
75°	326.2	346.0	379.6	395.0	477.4	831.7	1978.6	3882.0	5288.0	5369.6	5172.0
77.5°	242.8	243.7	289.9	308.0	340.6	443.0	837.1	2167.1	3283.2	3447.2	3074.8
80°	205.6	194.7	193.8	248.3	256.4	276.3	374.1	748.4	1175.9	713.0	539.0
82.5°	171.2	159.5	144.0	193.8	174.9	169.4	162.2	304.4	374.1	183.9	156.7
85°	119.6	114.2	108.8	126.8	99.6	85.2	77.9	142.3	157.6	77.9	68.9
87.5°	51.7	53.4	54.3	56.2	41.7	29.9	29.9	39.9	39.9	30.9	22.7
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)