

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: P963935

Luminaire Tested: **NAV-SB3B-722-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P963935  
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-SB3B-722-U-RW  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14731.3 lumens  
Efficiency: N/A  
Efficacy: 134.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G4

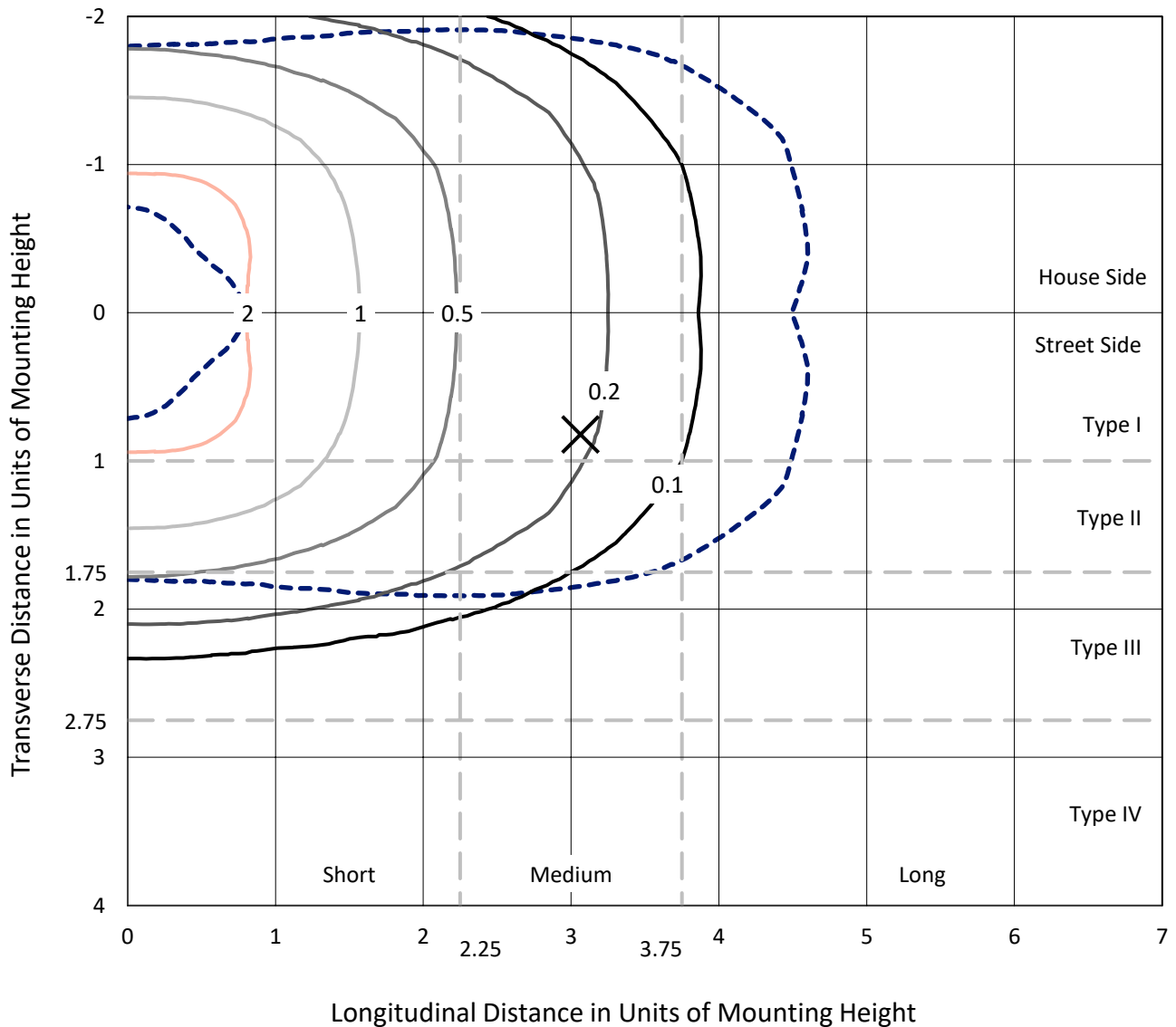
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

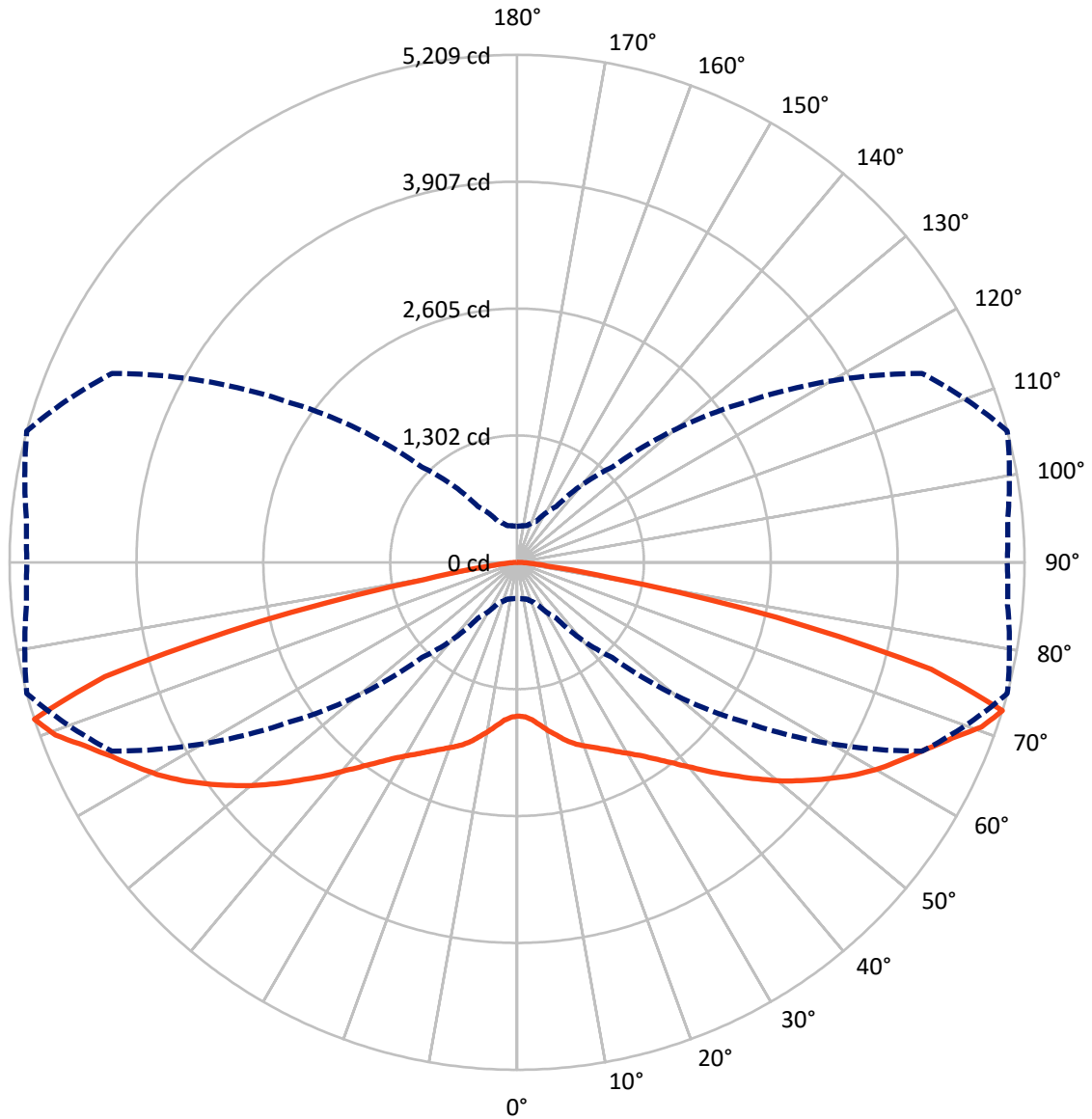
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
 Type III - Medium - N/A

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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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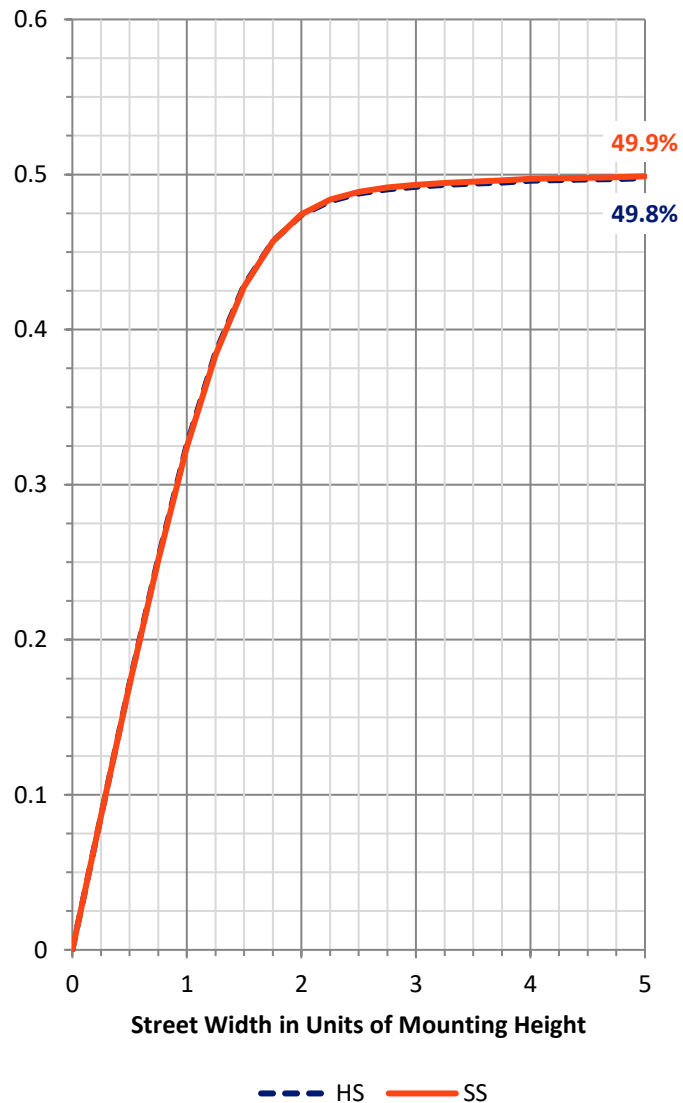
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7365.6	0.0	7365.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7365.6	0.0	7365.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14731.3	0.0	14731.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.6	1.0
10°-20°	509.8	3.5
20°-30°	985.1	6.7
30°-40°	1663.5	11.3
40°-50°	2638.1	17.9
50°-60°	3532.1	24.0
60°-70°	3361.4	22.8
70°-80°	1754.0	11.9
80°-90°	132.8	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°	14731.3	100.0
0°-180°	14731.3	100.0

**Coefficient of Utilization**

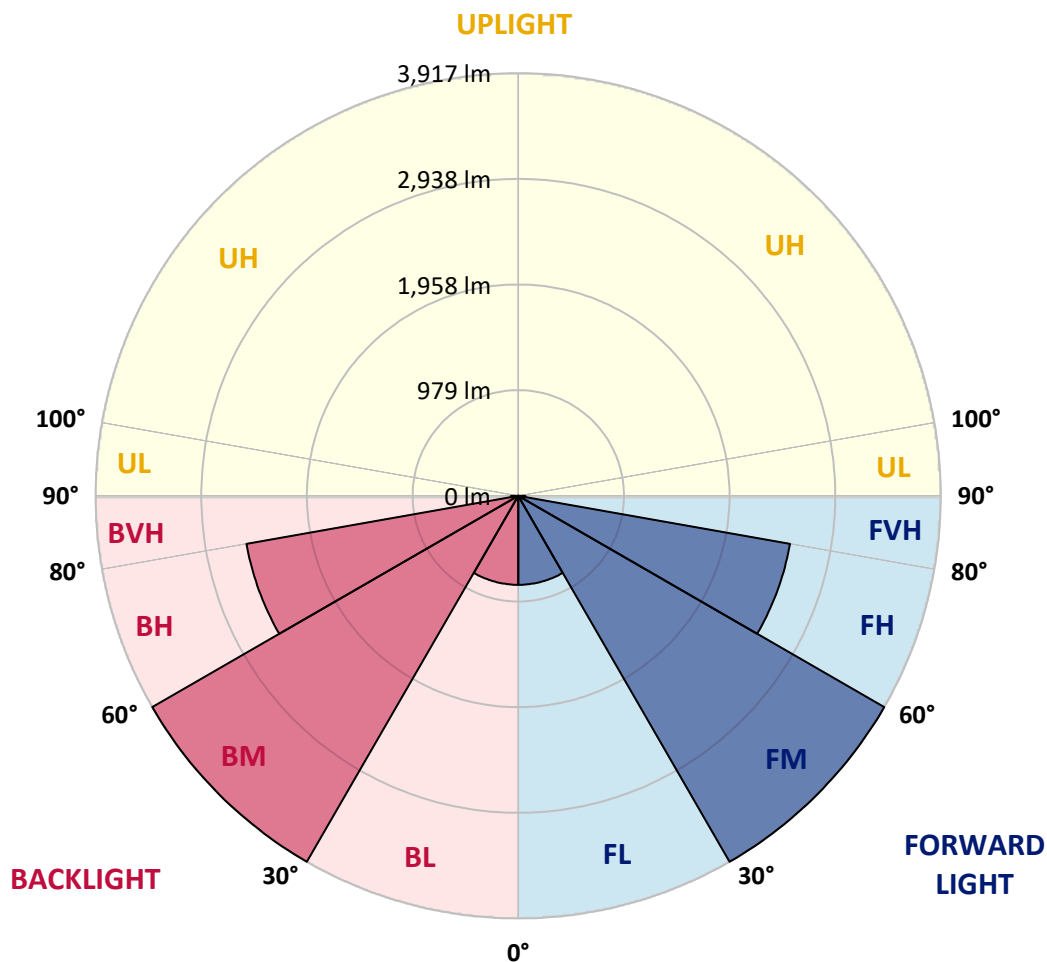


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	824.8	5.6			
FM (30°-60°)	3916.8	26.6			
FH (60°-80°)	2557.7	17.4			G2/5000
FVH (80°-90°)	66.4	0.5			G1/100
BL (0°-30°)	824.8	5.6	B2/1000		
BM (30°-60°)	3916.8	26.6	B3/5000		
BH (60°-80°)	2557.7	17.4	B4/5000		G4/5000
BVH (80°-90°)	66.4	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°	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0
2.5°	1578.0	1576.4	1578.0	1579.5	1578.7	1578.7	1582.5	1584.8	1589.3	1588.5	1587.7
5°	1567.4	1566.7	1572.8	1579.5	1584.8	1593.8	1605.0	1613.4	1623.9	1626.2	1626.2
7.5°	1562.2	1559.9	1570.5	1582.5	1599.0	1621.7	1643.4	1666.0	1684.1	1690.0	1691.6
10°	1566.0	1566.7	1581.0	1603.5	1629.9	1661.4	1692.3	1730.7	1756.2	1762.3	1768.2
12.5°	1583.2	1581.8	1605.8	1641.9	1678.0	1717.9	1754.0	1796.1	1823.9	1838.2	1844.3
15°	1614.9	1611.8	1645.6	1699.0	1751.7	1798.4	1827.7	1867.5	1899.9	1918.0	1924.7
17.5°	1652.4	1653.9	1698.3	1767.5	1836.7	1889.4	1917.2	1937.6	1962.4	1978.1	1985.6
20°	1718.6	1721.7	1771.3	1853.3	1932.2	1992.4	2014.9	2007.5	2014.2	2026.2	2035.2
22.5°	1807.4	1808.9	1864.6	1953.3	2036.1	2102.3	2117.2	2086.4	2067.6	2075.9	2081.9
25°	1910.4	1920.2	1975.9	2066.9	2151.9	2215.0	2221.8	2175.2	2128.5	2130.8	2134.6
27.5°	2036.1	2045.1	2101.5	2191.8	2278.3	2333.1	2332.4	2270.0	2201.5	2184.2	2189.5
30°	2172.2	2181.9	2239.8	2333.1	2413.6	2461.7	2451.2	2376.8	2279.0	2246.6	2250.4
32.5°	2333.9	2339.9	2398.6	2491.9	2566.3	2604.6	2582.8	2491.1	2369.2	2332.4	2341.4
35°	2529.4	2538.5	2582.1	2670.1	2735.5	2767.1	2730.3	2622.0	2485.1	2443.7	2449.8
37.5°	2752.8	2746.8	2796.4	2874.7	2928.8	2948.4	2898.0	2769.3	2617.4	2568.5	2577.6
40°	2986.0	2983.0	3037.2	3112.3	3141.7	3153.7	3079.3	2938.6	2770.2	2717.5	2734.8
42.5°	3197.4	3195.1	3268.0	3351.5	3386.9	3373.4	3279.3	3118.4	2946.9	2886.7	2901.8
45°	3366.6	3363.5	3453.0	3570.4	3639.6	3617.0	3490.6	3316.9	3125.8	3063.4	3077.8
47.5°	3496.7	3498.2	3594.5	3739.6	3860.8	3869.0	3706.5	3519.2	3322.9	3252.2	3273.3
50°	3590.7	3595.2	3698.3	3859.2	4024.7	4097.6	3926.9	3726.8	3526.8	3447.1	3471.2
52.5°	3614.0	3622.2	3746.4	3935.2	4130.0	4269.1	4151.0	3926.2	3720.0	3644.1	3663.7
55°	3489.9	3506.4	3663.7	3929.1	4194.7	4382.0	4348.2	4128.5	3914.9	3836.7	3858.5
57.5°	3204.9	3228.1	3411.7	3758.5	4180.4	4459.5	4500.8	4322.5	4109.6	4034.5	4051.7
60°	2805.4	2833.3	3009.3	3387.6	3978.8	4488.0	4608.4	4511.3	4288.7	4215.7	4231.5
62.5°	2203.0	2239.1	2449.8	2893.5	3553.1	4354.9	4700.1	4682.1	4449.6	4358.6	4369.2
65°	1413.3	1451.6	1673.5	2197.7	2985.2	3947.2	4728.7	4848.2	4619.7	4492.5	4508.4
67.5°	852.2	869.5	979.3	1332.0	2181.9	3332.7	4486.5	5032.5	4818.2	4660.3	4672.3
70°	545.3	555.0	620.5	782.2	1233.5	2431.7	3886.3	5067.2	5058.9	4832.5	4831.0
72.5°	370.0	373.1	390.3	463.3	698.0	1381.7	2866.4	4587.3	5209.4	5054.4	5030.3
75°	270.8	287.3	315.2	327.9	396.4	690.4	1642.7	3222.9	4390.3	4457.9	4293.9
77.5°	201.6	202.3	240.7	255.7	282.8	367.8	694.9	1799.1	2725.8	2861.9	2552.8
80°	170.8	161.7	160.9	206.1	212.9	229.4	310.7	621.3	976.3	591.9	447.5
82.5°	142.2	132.3	119.6	160.9	145.1	140.6	134.6	252.8	310.7	152.7	130.1
85°	99.3	94.8	90.3	105.3	82.7	70.7	64.7	118.1	130.9	64.7	57.2
87.5°	42.8	44.4	45.1	46.6	34.6	24.8	24.8	33.1	33.1	25.5	18.8
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)