

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: P962354

Luminaire Tested: **NAV-SB2C-722-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P962354  
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-SB2C-722-U-RW  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13058.5 lumens  
Efficiency: N/A  
Efficacy: 129.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3

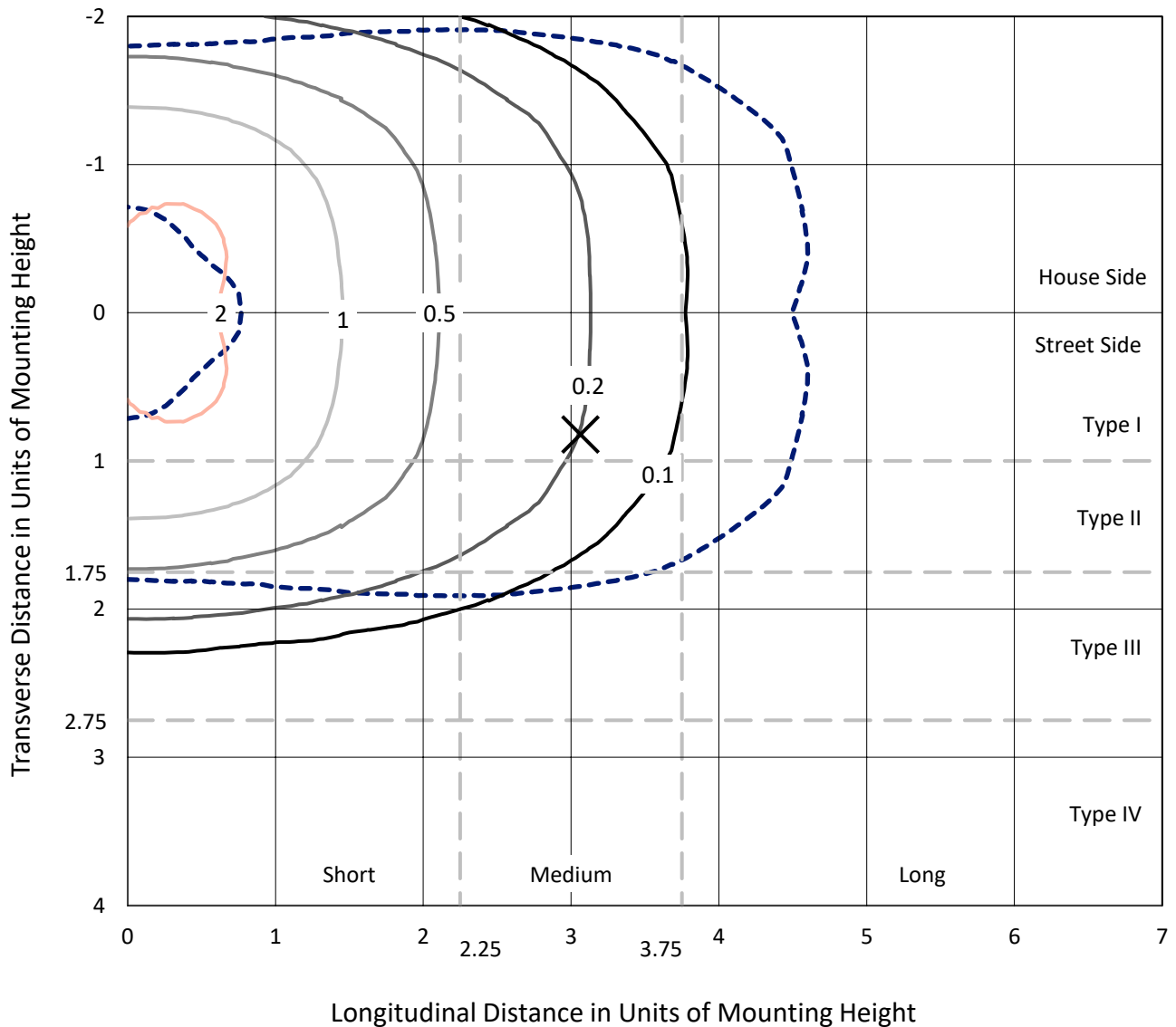
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

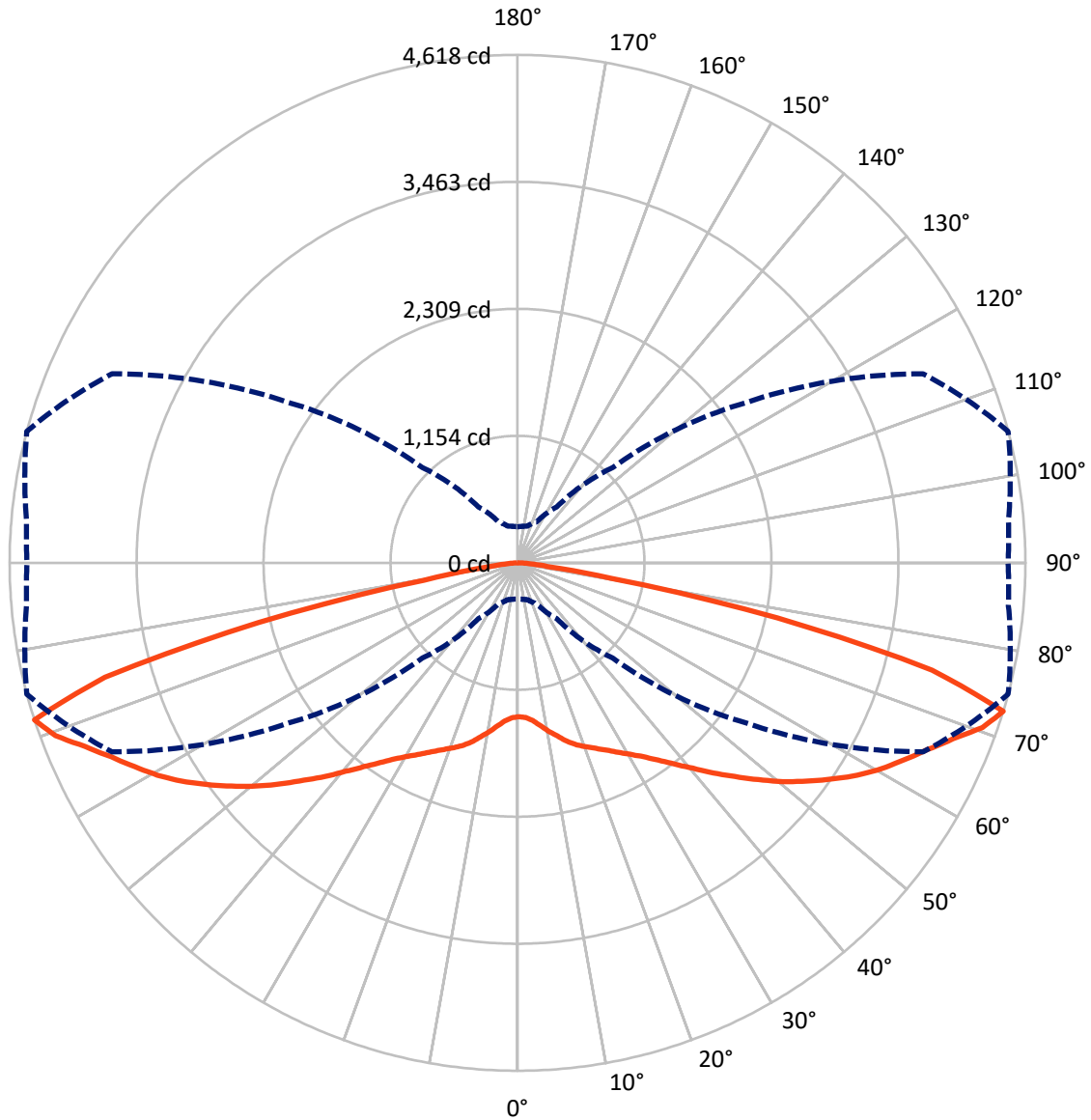
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	6529.2	0.0	6529.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6529.2	0.0	6529.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13058.5	0.0	13058.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.0	1.0
10°-20°	451.9	3.5
20°-30°	873.3	6.7
30°-40°	1474.6	11.3
40°-50°	2338.5	17.9
50°-60°	3131.0	24.0
60°-70°	2979.7	22.8
70°-80°	1554.8	11.9
80°-90°	117.7	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°	13058.5	100.0
0°-180°	13058.5	100.0

**Coefficient of Utilization**

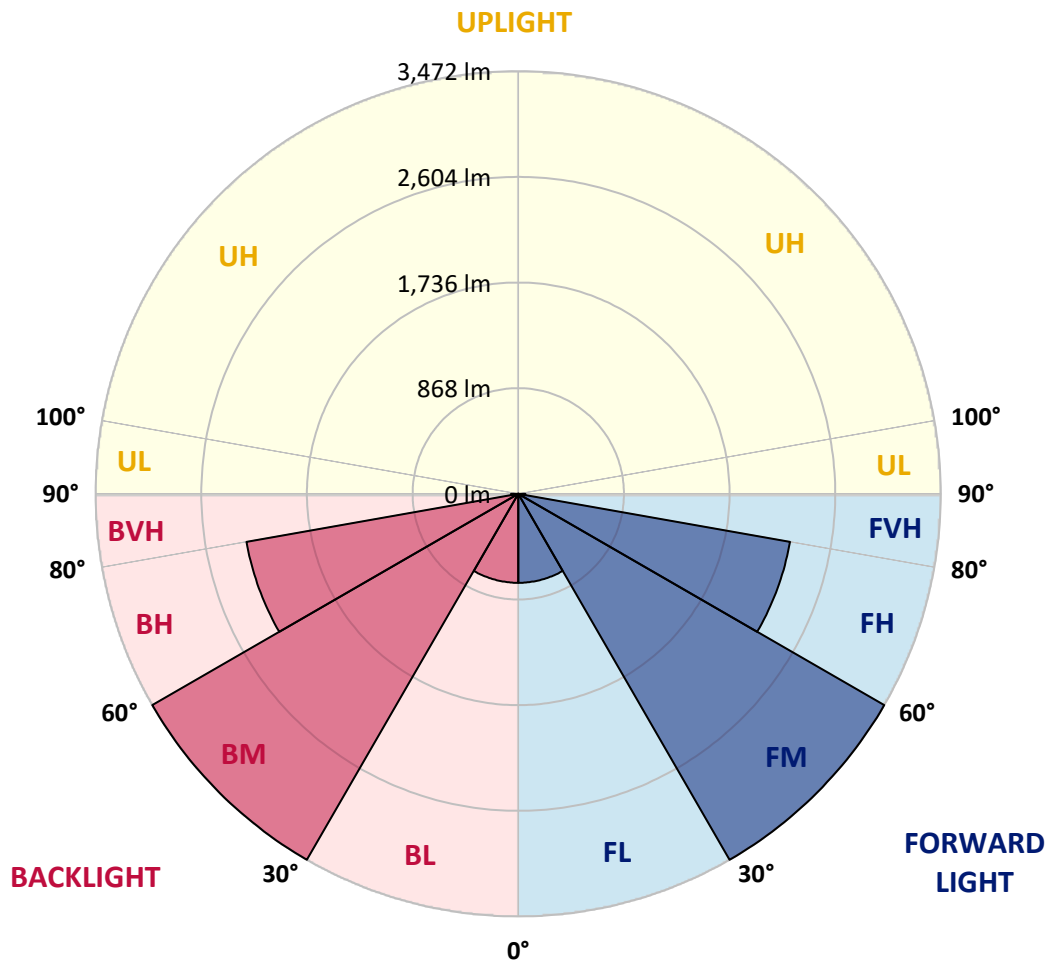


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	731.1	5.6			
FM	(30°-60°)	3472.0	26.6			
FH	(60°-80°)	2267.3	17.4			G2/5000
FVH	(80°-90°)	58.8	0.5			G1/100
BL	(0°-30°)	731.1	5.6	B2/1000		
BM	(30°-60°)	3472.0	26.6	B3/5000		
BH	(60°-80°)	2267.3	17.4	B3/2500		G3/2500
BVH	(80°-90°)	58.8	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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1398.8	1398.8	1398.8	1398.8	1398.8	1398.8	1398.8	1398.8	1398.8	1398.8	1398.8
2.5°	1398.8	1397.5	1398.8	1400.1	1399.4	1399.4	1402.8	1404.8	1408.8	1408.1	1407.4
5°	1389.5	1388.8	1394.1	1400.1	1404.8	1412.8	1422.8	1430.2	1439.5	1441.5	1441.5
7.5°	1384.8	1382.8	1392.2	1402.8	1417.5	1437.5	1456.8	1476.8	1492.8	1498.1	1499.5
10°	1388.2	1388.8	1401.5	1421.5	1444.8	1472.8	1500.2	1534.1	1556.8	1562.1	1567.5
12.5°	1403.4	1402.1	1423.4	1455.5	1487.5	1522.8	1554.8	1592.1	1616.8	1629.4	1634.8
15°	1431.5	1428.8	1458.8	1506.1	1552.8	1594.2	1620.1	1655.5	1684.2	1700.2	1706.1
17.5°	1464.8	1466.2	1505.5	1566.8	1628.1	1674.8	1699.4	1717.5	1739.5	1753.5	1760.1
20°	1523.5	1526.1	1570.2	1642.9	1712.9	1766.2	1786.2	1779.5	1785.6	1796.2	1804.2
22.5°	1602.2	1603.5	1652.8	1731.5	1804.8	1863.6	1876.9	1849.5	1832.8	1840.2	1845.5
25°	1693.5	1702.1	1751.5	1832.2	1907.5	1963.5	1969.5	1928.2	1886.8	1888.9	1892.2
27.5°	1804.8	1812.8	1862.8	1942.9	2019.6	2068.2	2067.5	2012.2	1951.5	1936.2	1940.8
30°	1925.6	1934.2	1985.5	2068.2	2139.6	2182.2	2172.9	2106.9	2020.2	1991.5	1994.9
32.5°	2068.9	2074.2	2126.2	2208.9	2274.9	2308.9	2289.5	2208.3	2100.2	2067.5	2075.5
35°	2242.2	2250.2	2288.9	2366.9	2424.9	2452.9	2420.2	2324.2	2202.8	2166.2	2171.6
37.5°	2440.2	2434.9	2478.9	2548.3	2596.2	2613.5	2569.0	2454.9	2320.2	2276.8	2284.9
40°	2647.0	2644.3	2692.3	2758.9	2784.9	2795.6	2729.6	2604.9	2455.6	2408.9	2424.2
42.5°	2834.2	2832.3	2897.0	2971.0	3002.3	2990.2	2906.9	2764.2	2612.2	2558.9	2572.2
45°	2984.3	2981.6	3061.0	3165.0	3226.3	3206.3	3094.3	2940.3	2770.9	2715.6	2728.2
47.5°	3099.6	3100.9	3186.3	3315.0	3422.4	3429.6	3285.6	3119.6	2945.6	2882.9	2901.6
50°	3182.9	3186.9	3278.4	3421.0	3567.7	3632.4	3481.0	3303.7	3126.2	3055.6	3076.9
52.5°	3203.6	3211.0	3321.0	3488.3	3661.0	3784.4	3679.6	3480.3	3297.6	3230.3	3247.6
55°	3093.7	3108.3	3247.6	3483.0	3718.4	3884.3	3854.4	3659.7	3470.3	3401.0	3420.3
57.5°	2840.9	2861.6	3024.3	3331.7	3705.7	3953.0	3989.7	3831.7	3643.1	3576.3	3591.7
60°	2486.9	2511.6	2667.6	3002.9	3527.0	3978.3	4085.0	3999.0	3801.7	3737.0	3751.0
62.5°	1952.8	1984.8	2171.6	2565.0	3149.6	3860.4	4166.4	4150.4	3944.4	3863.7	3873.1
65°	1252.8	1286.8	1483.5	1948.2	2646.2	3499.0	4191.7	4297.7	4095.1	3982.3	3996.4
67.5°	755.4	770.7	868.1	1180.8	1934.2	2954.3	3977.0	4461.1	4271.1	4131.1	4141.7
70°	483.4	492.0	550.0	693.4	1093.5	2155.6	3445.0	4491.8	4484.4	4283.8	4282.4
72.5°	328.0	330.7	346.0	410.7	618.7	1224.8	2540.9	4066.4	4617.7	4480.4	4459.1
75°	240.1	254.7	279.3	290.7	351.4	612.0	1456.1	2857.0	3891.7	3951.7	3806.3
77.5°	178.7	179.4	213.3	226.7	250.7	326.1	616.0	1594.8	2416.2	2536.9	2262.9
80°	151.4	143.4	142.7	182.7	188.7	203.4	275.3	550.7	865.4	524.7	396.7
82.5°	126.0	117.4	106.0	142.7	128.6	124.6	119.3	224.1	275.3	135.3	115.3
85°	88.0	84.0	80.1	93.4	73.4	62.6	57.3	104.7	116.0	57.3	50.6
87.5°	38.0	39.4	40.0	41.3	30.6	22.0	22.0	29.3	29.3	22.7	16.7
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)