

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: P961300

Luminaire Tested: **NAV-SB2A-722-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P961300  
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-SB2A-722-U-RW  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7821.8 lumens  
Efficiency: N/A  
Efficacy: 136.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3

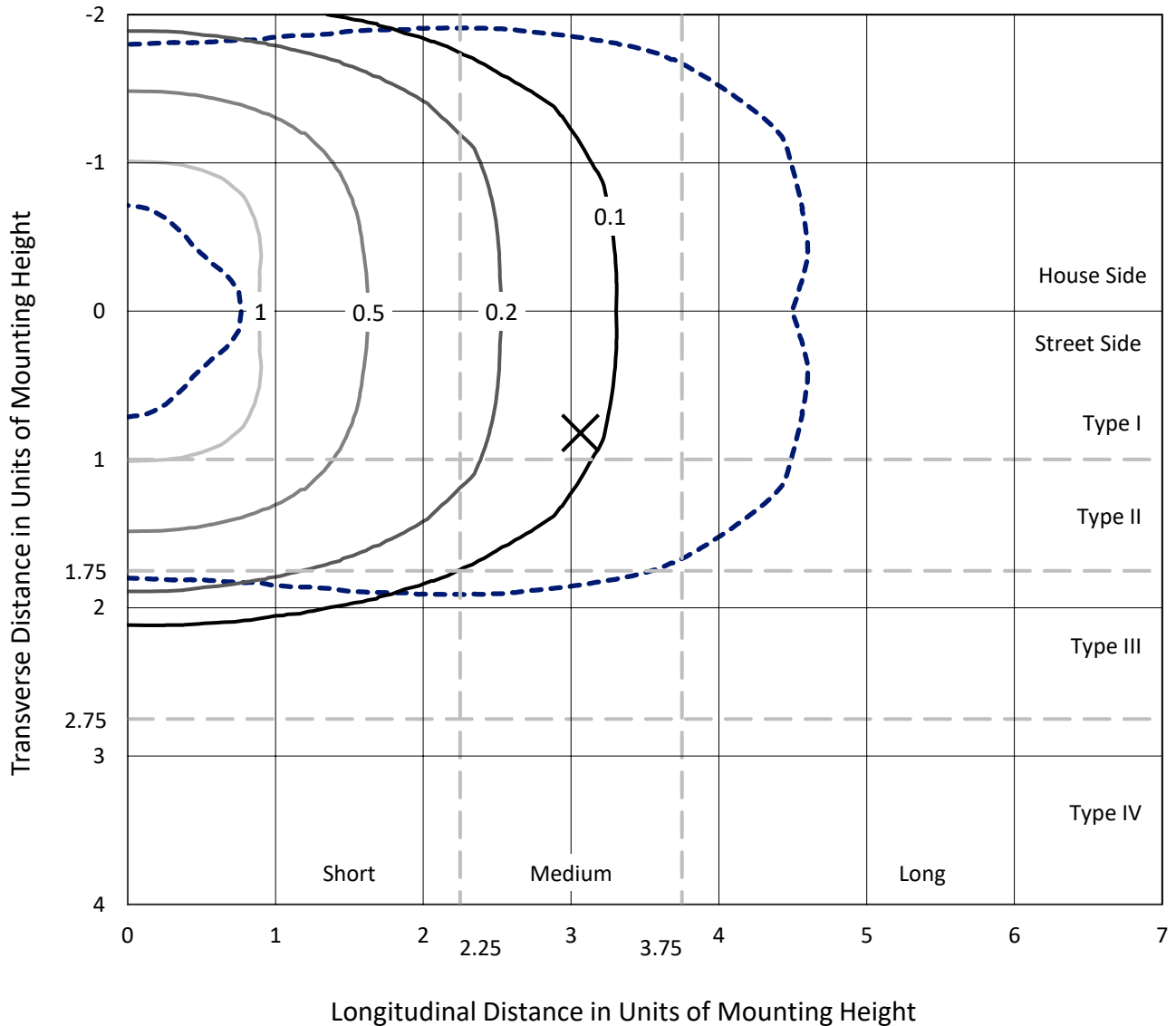
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

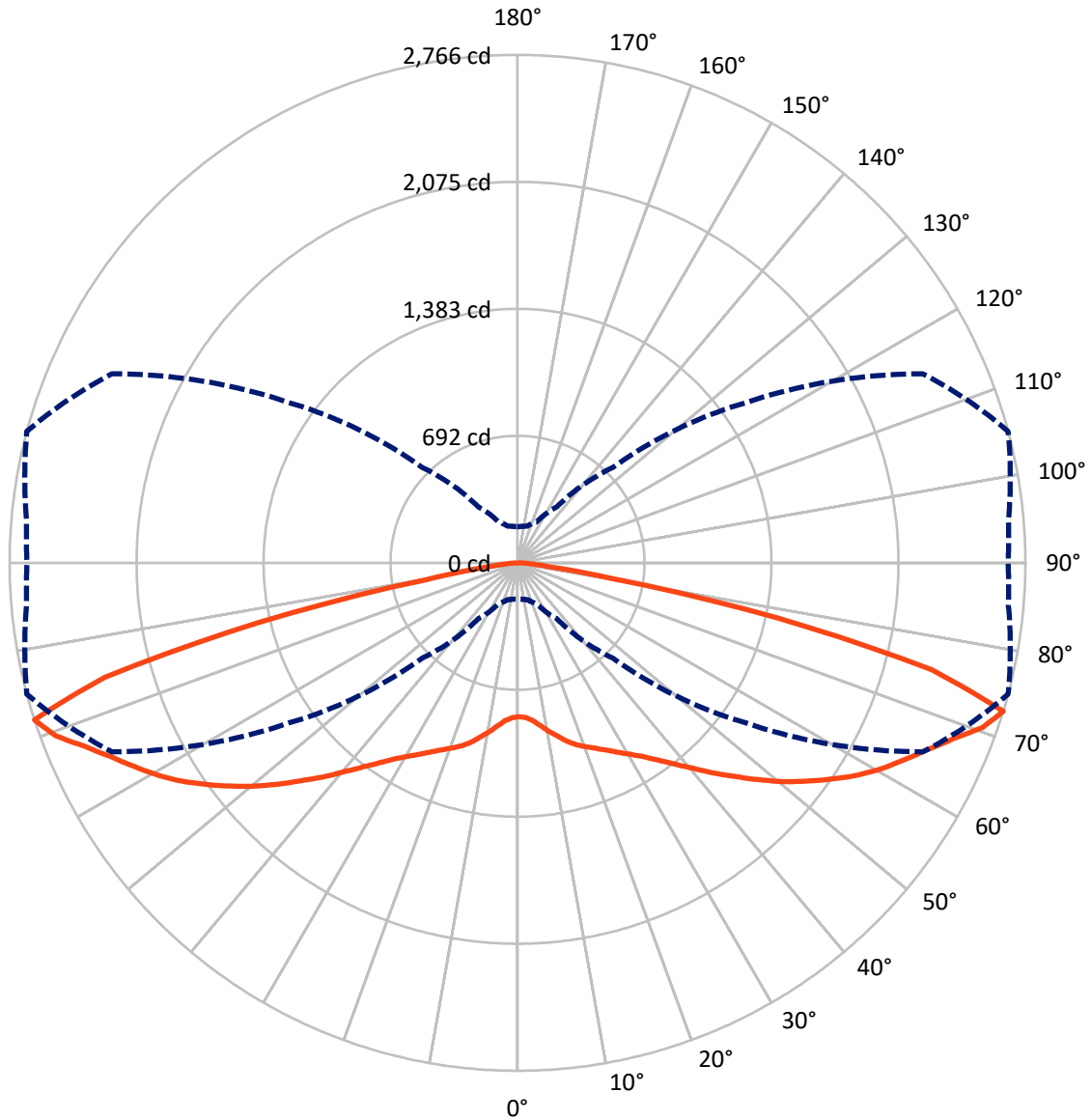
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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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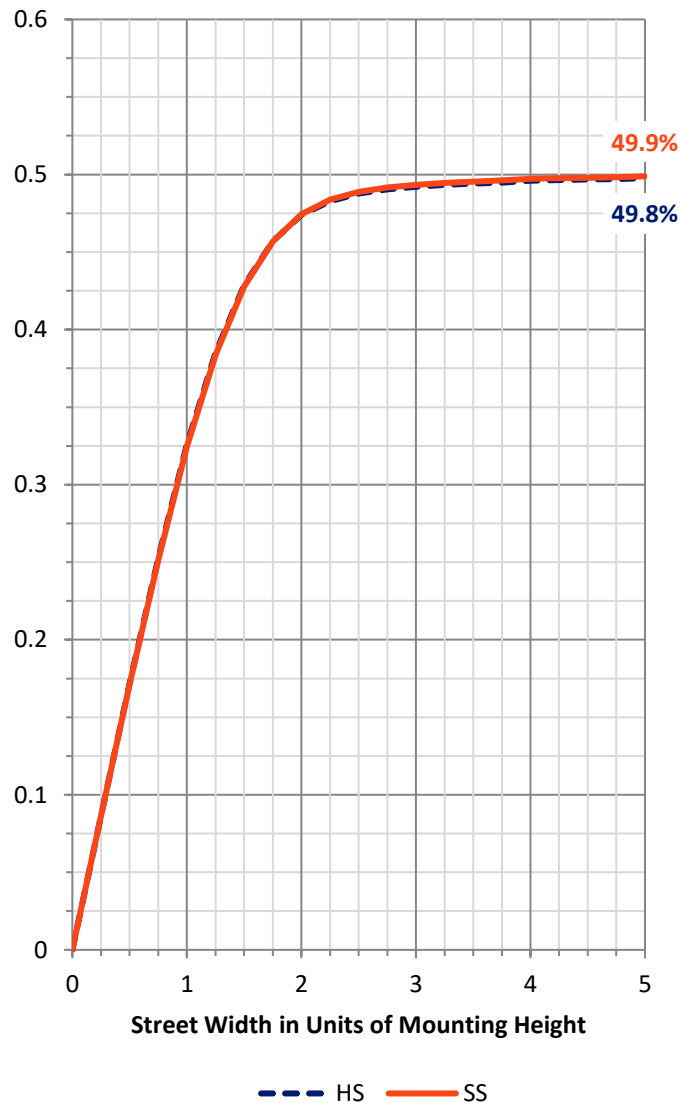
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3910.9	0.0	3910.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3910.9	0.0	3910.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7821.8	0.0	7821.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.1	1.0
10°-20°	270.7	3.5
20°-30°	523.1	6.7
30°-40°	883.2	11.3
40°-50°	1400.7	17.9
50°-60°	1875.4	24.0
60°-70°	1784.8	22.8
70°-80°	931.3	11.9
80°-90°	70.5	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°	7821.8	100.0
0°-180°	7821.8	100.0

**Coefficient of Utilization**



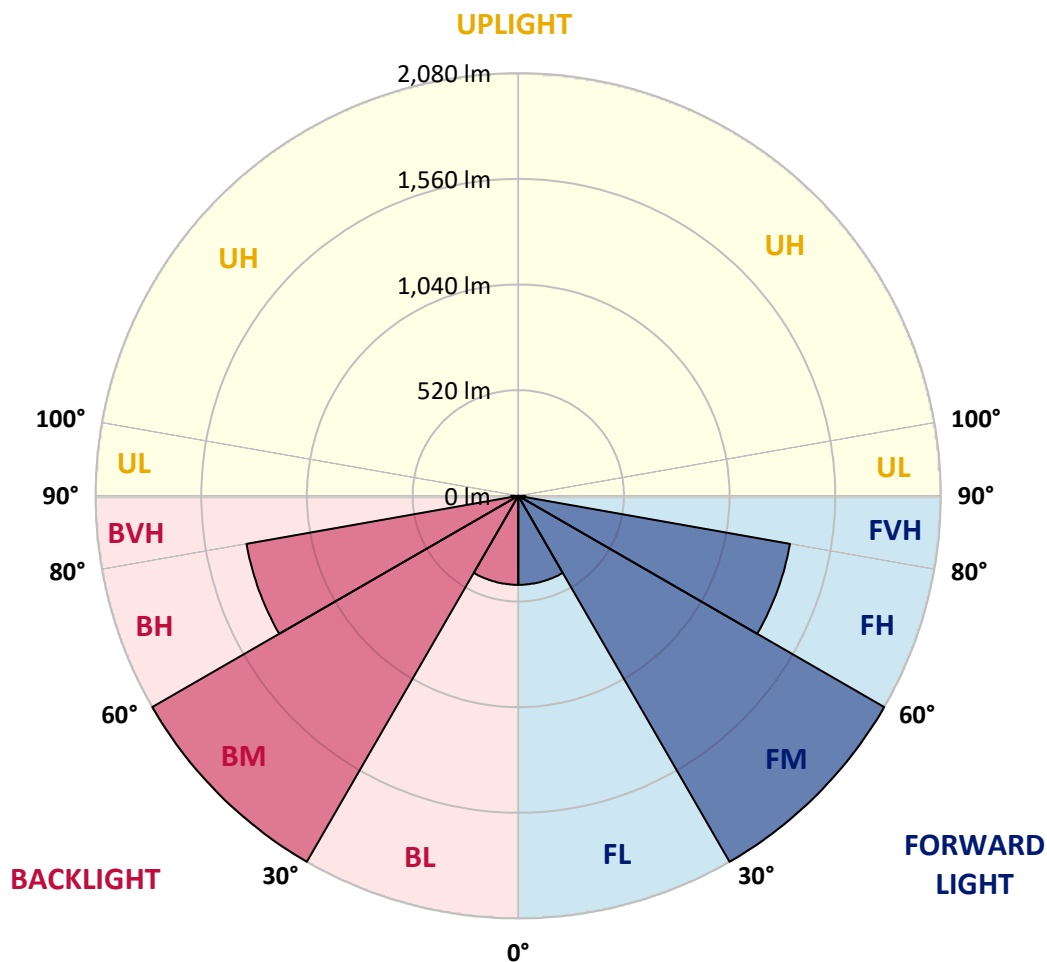
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	437.9	5.6			
FM (30°-60°)	2079.7	26.6			
FH (60°-80°)	1358.1	17.4			G1/1800
FVH (80°-90°)	35.2	0.5			G1/100
BL (0°-30°)	437.9	5.6	B1/500		
BM (30°-60°)	2079.7	26.6	B2/2500		
BH (60°-80°)	1358.1	17.4	B3/2500		G3/2500
BVH (80°-90°)	35.2	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°	837.8	837.8	837.8	837.8	837.8	837.8	837.8	837.8	837.8	837.8	837.8
2.5°	837.8	837.0	837.8	838.7	838.2	838.2	840.3	841.4	843.9	843.5	843.1
5°	832.3	831.9	835.1	838.7	841.4	846.2	852.2	856.6	862.2	863.5	863.5
7.5°	829.4	828.3	833.8	840.3	849.0	861.0	872.6	884.6	894.2	897.4	898.1
10°	831.5	831.9	839.5	851.5	865.4	882.2	898.5	918.9	932.5	935.7	938.9
12.5°	840.6	839.9	852.6	871.8	890.9	912.1	931.3	953.7	968.4	976.0	979.2
15°	857.4	855.8	873.8	902.1	930.1	954.9	970.5	991.6	1008.8	1018.3	1021.9
17.5°	877.4	878.2	901.8	938.5	975.2	1003.2	1017.9	1028.8	1041.9	1050.3	1054.3
20°	912.6	914.1	940.4	984.0	1025.9	1057.9	1069.9	1065.9	1069.5	1075.8	1080.7
22.5°	959.6	960.4	990.0	1037.1	1081.1	1116.2	1124.2	1107.8	1097.9	1102.2	1105.5
25°	1014.3	1019.6	1049.1	1097.5	1142.6	1176.1	1179.7	1155.0	1130.2	1131.4	1133.3
27.5°	1081.1	1085.9	1115.8	1163.7	1209.7	1238.8	1238.4	1205.3	1168.9	1159.7	1162.6
30°	1153.3	1158.6	1189.3	1238.8	1281.6	1307.1	1301.5	1262.0	1210.0	1192.9	1194.8
32.5°	1239.2	1242.4	1273.6	1323.1	1362.6	1382.9	1371.3	1322.7	1258.0	1238.4	1243.2
35°	1343.1	1347.9	1371.0	1417.7	1452.4	1469.2	1449.7	1392.2	1319.5	1297.5	1300.7
37.5°	1461.6	1458.5	1484.8	1526.3	1555.1	1565.5	1538.7	1470.5	1389.8	1363.8	1368.6
40°	1585.5	1583.8	1612.6	1652.5	1668.1	1674.5	1635.0	1560.3	1470.9	1442.9	1452.0
42.5°	1697.7	1696.5	1735.2	1779.5	1798.3	1791.1	1741.2	1655.8	1564.7	1532.8	1540.7
45°	1787.5	1786.0	1833.4	1895.7	1932.5	1920.5	1853.4	1761.2	1659.7	1626.6	1634.2
47.5°	1856.6	1857.4	1908.5	1985.6	2049.9	2054.3	1968.0	1868.6	1764.3	1726.8	1738.0
50°	1906.5	1909.0	1963.6	2049.1	2136.9	2175.7	2085.1	1978.9	1872.6	1830.2	1843.1
52.5°	1918.9	1923.3	1989.2	2089.5	2192.9	2266.8	2204.1	2084.6	1975.2	1934.9	1945.2
55°	1853.0	1861.8	1945.2	2086.3	2227.2	2326.6	2308.7	2192.1	2078.7	2037.1	2048.7
57.5°	1701.7	1714.0	1811.5	1995.6	2219.6	2367.8	2389.8	2295.1	2182.1	2142.1	2151.4
60°	1489.6	1504.4	1597.9	1798.7	2112.6	2382.9	2446.9	2395.3	2277.1	2238.4	2246.8
62.5°	1169.7	1188.9	1300.7	1536.4	1886.6	2312.3	2495.6	2486.0	2362.6	2314.2	2319.9
65°	750.4	770.8	888.6	1167.0	1585.1	2095.8	2510.7	2574.3	2452.8	2385.4	2393.8
67.5°	452.4	461.7	520.0	707.2	1158.6	1769.6	2382.2	2672.1	2558.3	2474.5	2480.8
70°	289.6	294.7	329.4	415.3	655.0	1291.1	2063.5	2690.5	2686.1	2565.9	2565.1
72.5°	196.5	198.1	207.3	246.0	370.6	733.6	1521.9	2435.7	2766.0	2683.7	2670.9
75°	143.8	152.5	167.3	174.1	210.4	366.6	872.2	1711.2	2331.1	2367.0	2279.9
77.5°	107.0	107.4	127.8	135.8	150.2	195.3	369.0	955.3	1447.3	1519.6	1355.5
80°	90.6	85.9	85.5	109.5	113.1	121.8	164.9	329.8	518.3	314.3	237.6
82.5°	75.4	70.3	63.4	85.5	77.1	74.7	71.4	134.2	164.9	81.1	69.1
85°	52.7	50.3	48.0	55.9	44.0	37.5	34.3	62.7	69.5	34.3	30.3
87.5°	22.8	23.6	24.0	24.8	18.3	13.2	13.2	17.5	17.5	13.5	9.9
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)