

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: P960241

Luminaire Tested: **NAV-SB1C-722-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P960241  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1C-722-U-5MQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6643 lumens  
Efficiency: N/A  
Efficacy: 122.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

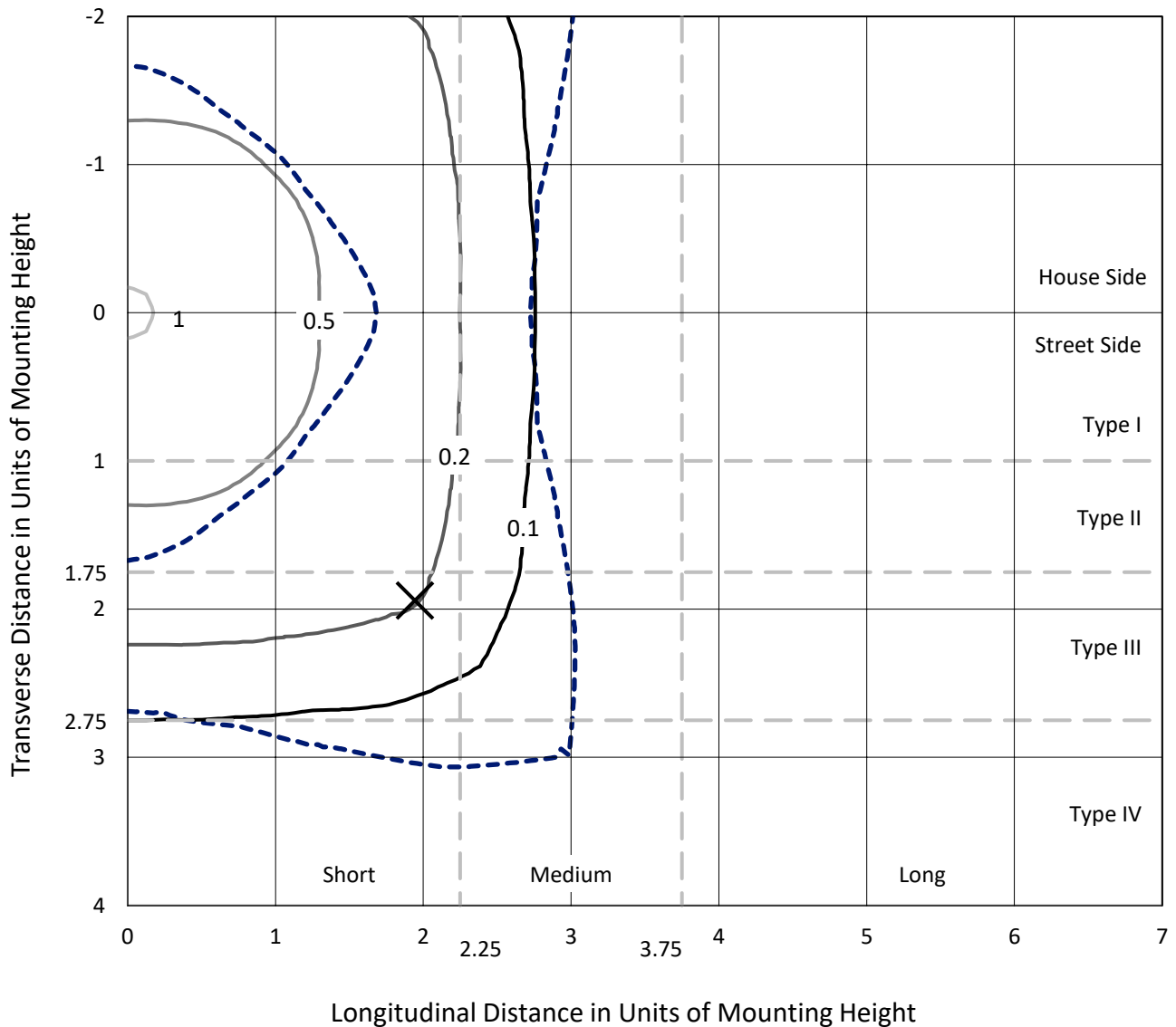
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

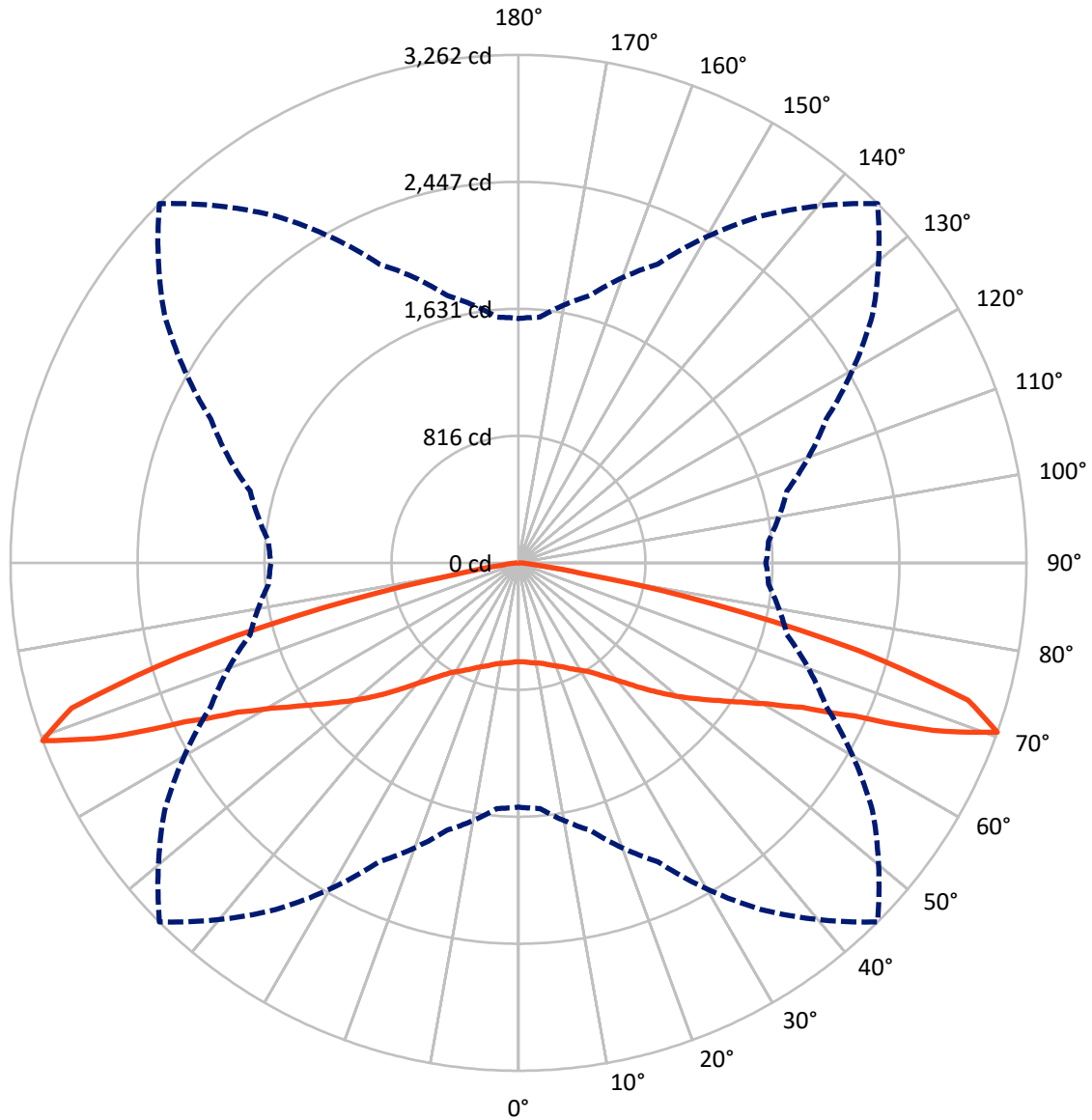
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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
<b>House Side</b>	Lumens	3321.5	0.0	3321.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3321.5	0.0	3321.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6643.0	0.0	6643.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.8	0.9
10°-20°	191.7	2.9
20°-30°	342.6	5.2
30°-40°	555.3	8.4
40°-50°	904.5	13.6
50°-60°	1379.1	20.8
60°-70°	2051.7	30.9
70°-80°	1118.2	16.8
80°-90°	38.1	0.6
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°	6643.0	100.0
0°-180°	6643.0	100.0

**Coefficient of Utilization**



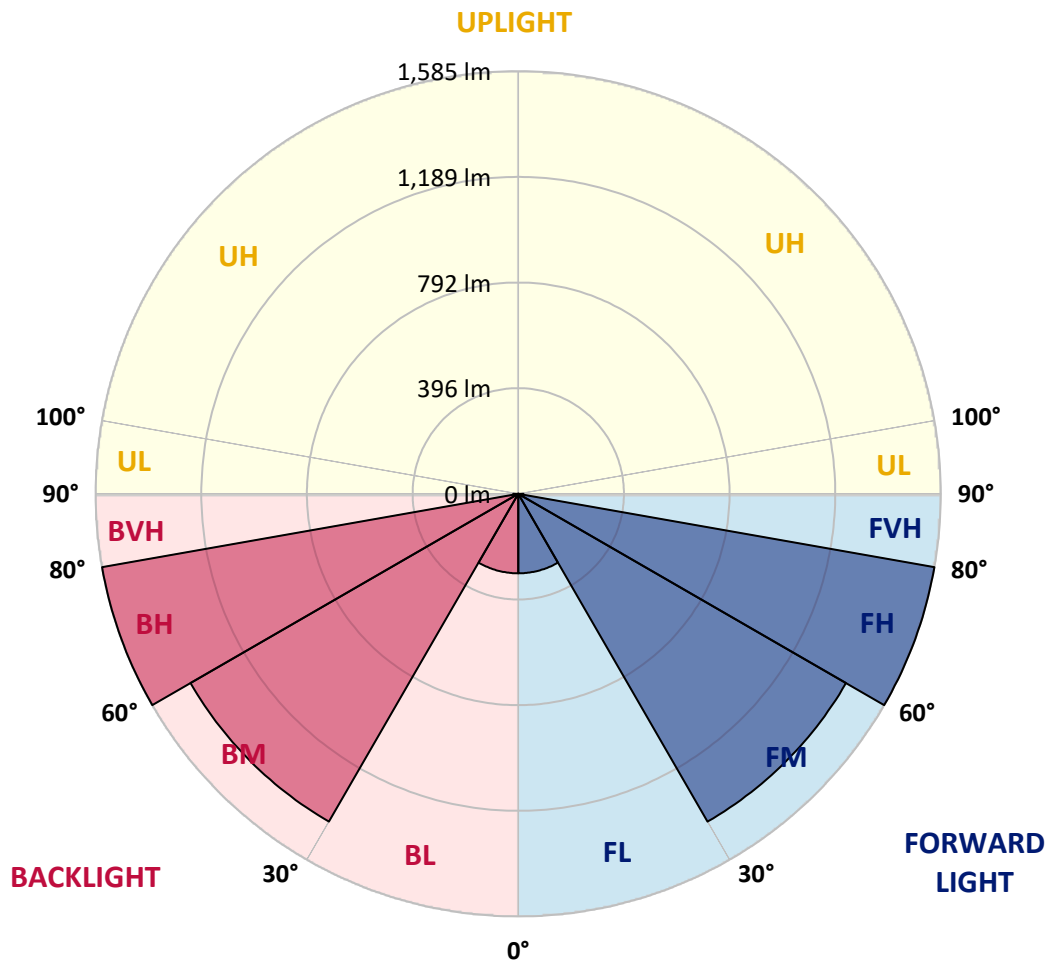
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	298.0	4.5			
FM (30°-60°)	1419.5	21.4			
FH (60°-80°)	1584.9	23.9			G1/1800
FVH (80°-90°)	19.0	0.3			G1/100
BL (0°-30°)	298.0	4.5	B1/500		
BM (30°-60°)	1419.5	21.4	B2/2500		
BH (60°-80°)	1584.9	23.9	B3/2500		G1/1800
BVH (80°-90°)	19.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3
2.5°	639.3	640.0	638.7	638.0	637.3	636.3	636.6	638.4	639.7	639.3	639.7
5°	644.6	645.3	644.3	644.0	642.7	642.4	642.4	644.0	645.0	644.3	644.6
7.5°	650.7	651.7	650.1	649.6	649.0	648.3	648.0	649.6	650.7	650.7	650.7
10°	656.3	657.3	656.0	655.0	654.4	654.4	653.6	655.0	656.7	656.3	656.3
12.5°	662.4	663.0	661.6	661.0	661.0	662.0	661.0	661.6	663.0	662.4	662.0
15°	669.7	670.0	669.7	670.7	672.4	675.7	672.7	672.0	672.7	671.1	671.1
17.5°	679.7	680.4	681.7	684.0	686.3	692.4	687.1	685.3	685.3	682.0	682.0
20°	692.1	693.0	695.1	699.0	702.0	707.7	702.3	700.1	699.0	694.7	694.7
22.5°	705.0	706.7	709.7	715.0	720.4	725.7	720.4	716.4	713.4	707.7	707.4
25°	720.1	722.0	726.7	735.3	742.7	750.4	744.0	736.1	730.0	722.0	721.7
27.5°	741.4	743.7	749.4	760.0	769.4	776.0	770.1	759.7	751.4	741.7	741.4
30°	771.4	773.8	780.4	791.7	798.1	802.4	798.4	790.4	780.4	769.4	769.4
32.5°	810.1	813.1	820.4	831.1	832.4	833.1	831.8	827.8	820.4	807.1	807.4
35°	859.2	862.4	870.8	879.4	878.1	879.4	877.5	876.2	870.8	855.5	855.5
37.5°	919.1	923.1	931.8	938.5	935.1	933.5	933.8	934.2	931.1	914.1	914.1
40°	988.8	994.1	1000.5	1007.6	1001.8	996.8	1000.2	1002.9	1000.2	982.9	982.9
42.5°	1060.6	1068.3	1074.9	1084.9	1080.2	1073.9	1078.6	1081.6	1075.9	1057.2	1058.5
45°	1140.3	1147.6	1156.3	1171.3	1168.0	1161.3	1168.0	1168.6	1159.0	1136.9	1139.3
47.5°	1222.6	1230.3	1243.3	1263.3	1262.0	1254.7	1263.3	1258.7	1246.3	1220.0	1218.3
50°	1300.7	1311.4	1331.4	1359.4	1362.0	1353.0	1364.7	1355.7	1335.1	1302.1	1301.3
52.5°	1374.0	1385.4	1417.1	1455.1	1464.7	1453.1	1468.7	1453.1	1422.1	1379.8	1375.8
55°	1451.1	1463.8	1501.4	1551.1	1570.5	1561.8	1576.4	1552.8	1508.8	1457.4	1450.4
57.5°	1541.8	1549.5	1594.5	1653.5	1686.2	1688.2	1694.8	1654.9	1601.5	1543.1	1535.1
60°	1640.2	1650.9	1699.9	1770.6	1822.2	1839.0	1832.0	1772.6	1710.5	1643.5	1632.8
62.5°	1766.3	1778.0	1836.6	1921.4	2003.1	2044.4	2017.1	1931.0	1854.3	1774.0	1759.9
65°	1870.6	1883.6	1989.7	2140.8	2289.5	2372.6	2303.9	2145.4	2007.4	1894.0	1875.3
67.5°	1795.0	1811.0	1977.3	2254.9	2624.7	2872.5	2637.4	2288.8	2018.4	1864.7	1841.6
70°	1568.9	1583.8	1778.0	2117.1	2719.1	3262.1	2775.8	2179.5	1784.2	1612.2	1589.2
72.5°	1041.5	1089.9	1286.4	1693.2	2427.9	3018.6	2451.9	1658.9	1193.3	1039.2	1005.5
75°	345.5	384.2	518.2	877.8	1626.2	2257.6	1548.2	776.7	410.5	295.5	279.5
77.5°	87.0	100.3	138.4	251.1	648.7	1285.4	583.9	205.1	111.7	78.0	69.7
80°	42.3	46.7	66.7	83.7	162.5	408.6	152.4	78.7	52.7	40.7	37.3
82.5°	23.4	23.7	37.7	47.4	60.4	105.7	62.7	46.0	30.3	24.7	24.7
85°	14.3	14.0	20.0	25.3	25.3	37.7	30.0	25.3	17.3	15.4	16.0
87.5°	5.6	5.6	7.4	8.0	7.0	9.6	7.7	8.3	6.7	6.4	6.7
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)