

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: P959777

Luminaire Tested: **NAV-SB1B-730-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P959777  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1B-730-U-5NQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6050.6 lumens  
Efficiency: N/A  
Efficacy: 152.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G1

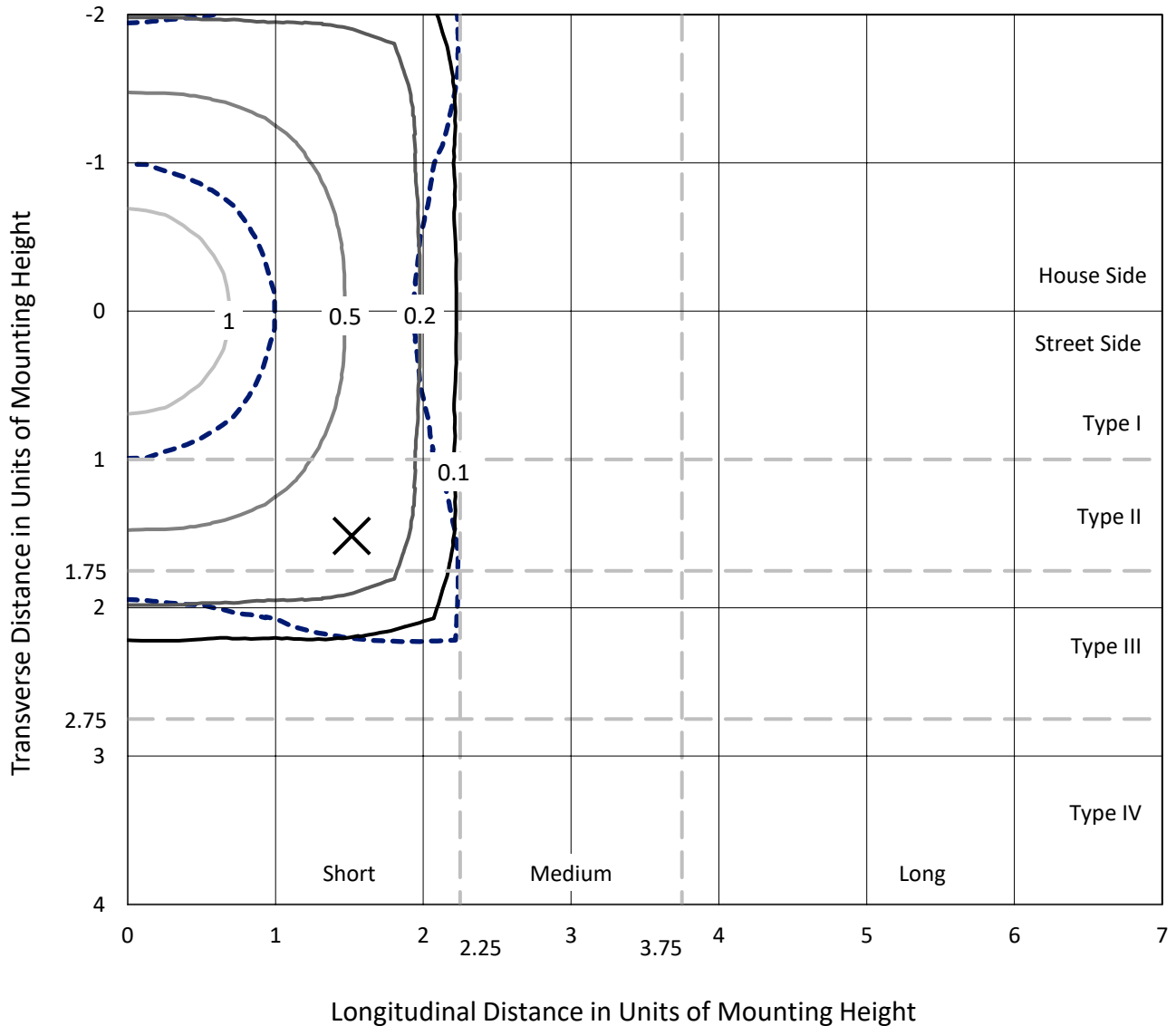
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

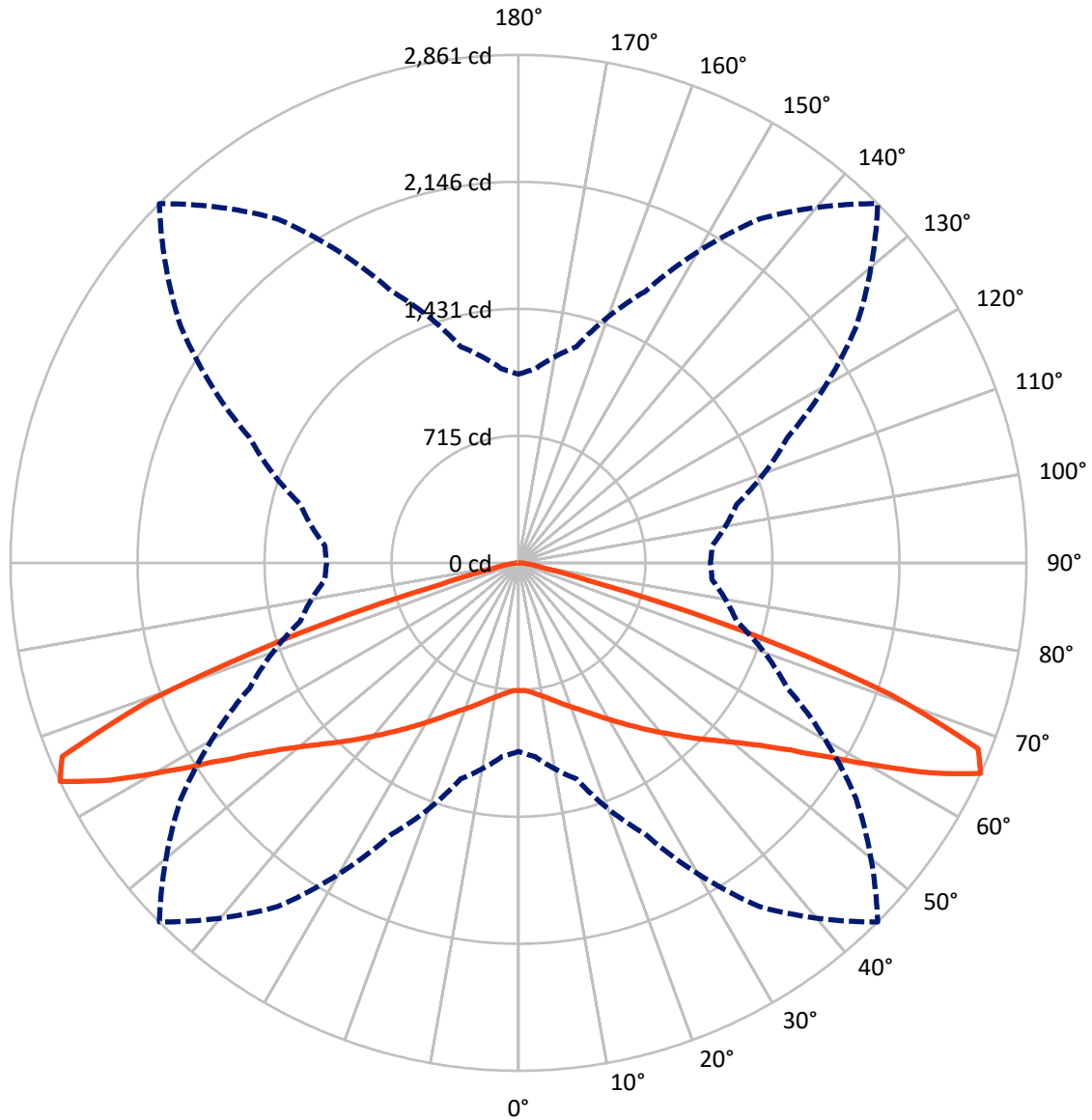
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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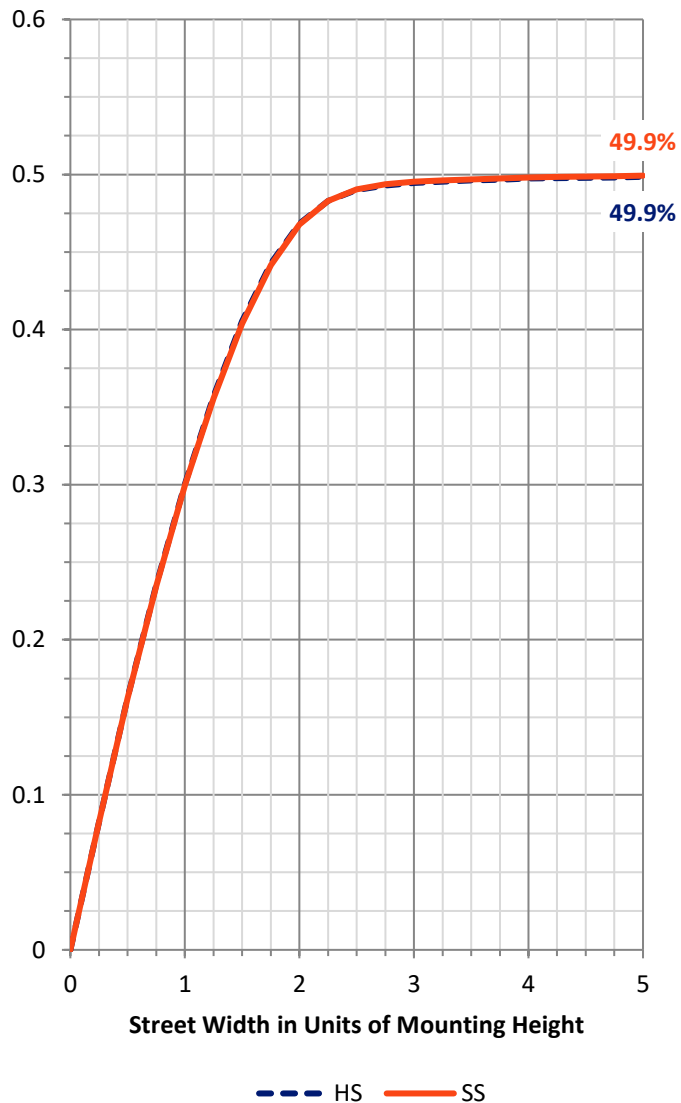
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3025.3	0.0	3025.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3025.3	0.0	3025.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6050.6	0.0	6050.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.1	1.2
10°-20°	231.9	3.8
20°-30°	437.8	7.2
30°-40°	716.9	11.8
40°-50°	1111.6	18.4
50°-60°	1642.1	27.1
60°-70°	1563.1	25.8
70°-80°	252.2	4.2
80°-90°	23.8	0.4
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°	6050.6	100.0
0°-180°	6050.6	100.0

**Coefficient of Utilization**



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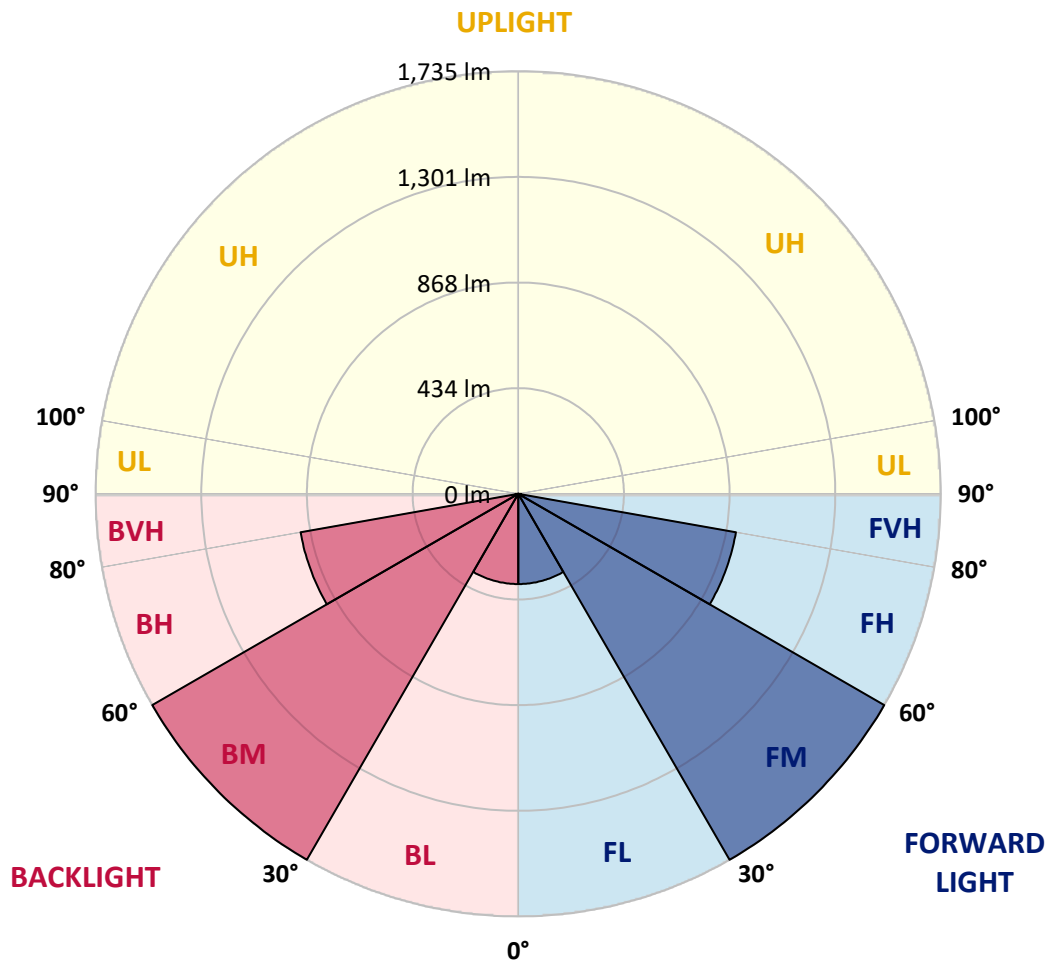
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	370.4	6.1			
FM (30°-60°)	1735.3	28.7			
FH (60°-80°)	907.7	15.0			G1/1800
FVH (80°-90°)	11.9	0.2			G1/100
BL (0°-30°)	370.4	6.1	B1/500		
BM (30°-60°)	1735.3	28.7	B2/2500		
BH (60°-80°)	907.7	15.0	B2/1000		G1/1800
BVH (80°-90°)	11.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	720.1	720.1	720.1	720.1	720.1	720.1	720.1	720.1	720.1	720.1	720.1
2.5°	725.0	722.5	724.4	722.8	721.6	720.4	721.0	723.1	724.1	724.4	724.4
5°	734.6	732.6	733.4	733.4	731.3	730.7	731.0	732.6	734.3	734.3	734.3
7.5°	750.4	748.4	750.4	749.2	747.4	746.8	746.5	747.7	750.4	750.4	749.5
10°	769.6	767.1	768.3	767.7	765.6	764.8	764.4	766.2	768.6	768.3	767.7
12.5°	790.5	787.8	789.2	787.5	786.9	786.0	786.0	785.7	787.2	786.0	786.6
15°	813.8	812.1	812.6	811.5	812.4	811.8	809.3	808.1	808.7	806.9	807.2
17.5°	841.5	837.2	839.4	838.8	838.8	840.0	836.1	834.6	835.8	833.9	835.5
20°	873.4	869.1	870.0	868.8	867.4	868.5	863.7	864.9	865.8	864.6	867.4
22.5°	908.3	902.8	902.5	903.1	899.7	900.1	896.8	899.7	901.6	898.3	901.6
25°	944.1	938.4	942.3	940.7	936.5	937.5	935.0	938.1	939.5	935.3	940.1
27.5°	982.1	978.2	981.7	982.7	977.5	981.1	977.5	980.2	981.7	975.4	980.2
30°	1026.4	1022.4	1025.8	1028.2	1022.1	1027.9	1024.9	1026.6	1026.9	1019.4	1024.0
32.5°	1074.6	1068.6	1077.1	1078.3	1071.6	1078.6	1074.6	1077.1	1078.6	1068.3	1075.2
35°	1133.5	1126.0	1135.7	1134.2	1128.4	1134.2	1130.5	1134.2	1137.8	1125.3	1132.9
37.5°	1197.0	1189.1	1199.5	1196.7	1191.3	1195.1	1193.0	1195.5	1201.2	1187.9	1196.1
40°	1266.8	1257.1	1271.1	1266.2	1261.1	1260.4	1261.7	1263.2	1270.8	1255.9	1260.8
42.5°	1341.5	1331.2	1352.1	1344.5	1337.2	1332.4	1336.3	1339.4	1346.6	1329.9	1338.8
45°	1426.8	1414.9	1442.3	1433.2	1421.7	1411.6	1418.0	1422.6	1433.2	1413.2	1423.4
47.5°	1520.9	1507.6	1536.7	1533.9	1515.2	1493.3	1507.9	1520.9	1528.8	1504.5	1512.7
50°	1612.9	1602.6	1640.8	1644.2	1621.0	1590.4	1610.8	1630.5	1632.6	1600.7	1604.7
52.5°	1699.1	1688.8	1744.3	1765.3	1744.7	1708.3	1729.8	1749.8	1733.7	1692.4	1693.6
55°	1768.0	1759.5	1830.2	1884.3	1891.2	1861.2	1874.0	1873.4	1820.5	1757.1	1759.2
57.5°	1784.7	1783.5	1872.8	1987.2	2060.0	2063.7	2038.5	1974.2	1860.3	1775.0	1769.6
60°	1708.8	1716.4	1839.1	2041.0	2235.2	2316.0	2207.0	2023.4	1815.1	1696.7	1682.7
62.5°	1481.7	1501.8	1649.6	1975.4	2376.7	2606.2	2342.1	1948.6	1629.2	1474.8	1465.6
65°	1061.9	1096.9	1260.1	1685.7	2364.0	2861.2	2322.6	1672.1	1272.2	1094.1	1081.1
67.5°	481.7	517.3	656.0	1154.1	2054.9	2792.0	2050.0	1166.3	688.8	519.2	511.5
70°	174.6	180.6	225.3	462.1	1313.2	2224.6	1369.4	465.4	239.5	192.5	190.0
72.5°	105.7	106.6	115.9	165.4	456.2	1350.6	475.7	170.9	118.4	105.1	106.9
75°	67.1	66.5	82.6	101.1	161.8	455.7	169.7	101.1	82.3	75.0	75.5
77.5°	48.3	49.8	59.2	75.5	102.0	154.6	100.1	72.3	59.2	48.6	49.5
80°	36.1	37.0	43.2	58.9	71.6	96.2	63.8	53.4	44.6	30.3	31.3
82.5°	26.1	26.1	28.2	42.8	43.7	51.9	34.6	37.6	29.4	21.5	21.5
85°	15.5	15.2	17.6	25.5	22.8	19.2	15.8	23.1	18.6	13.3	13.0
87.5°	5.4	5.7	5.4	7.3	6.0	5.1	4.8	6.4	5.1	4.5	4.2
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)