

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: P960336

Luminaire Tested: **NAV-SB1C-735-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P960336  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1C-735-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7767.5 lumens  
Efficiency: N/A  
Efficacy: 142.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

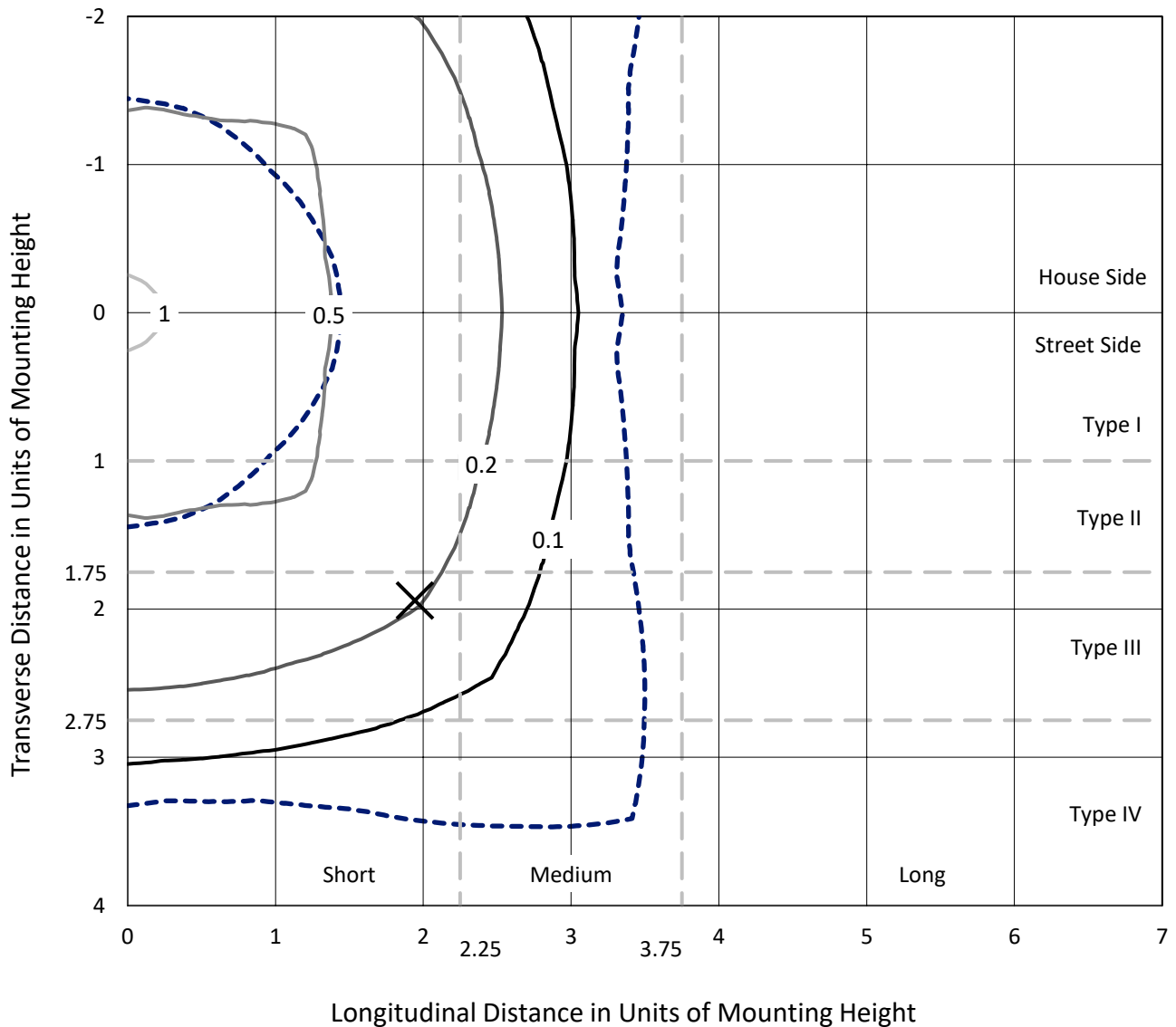
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

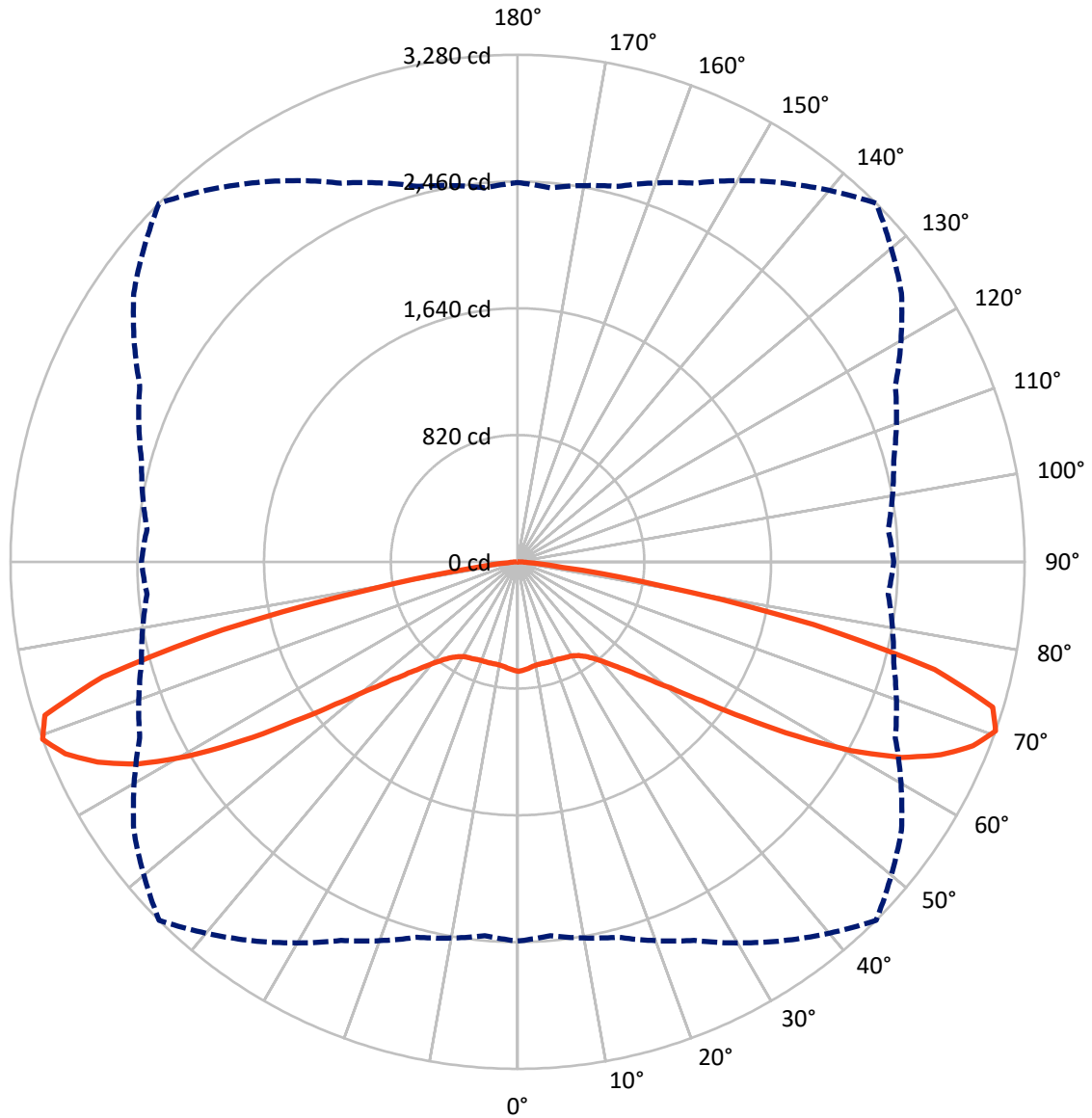
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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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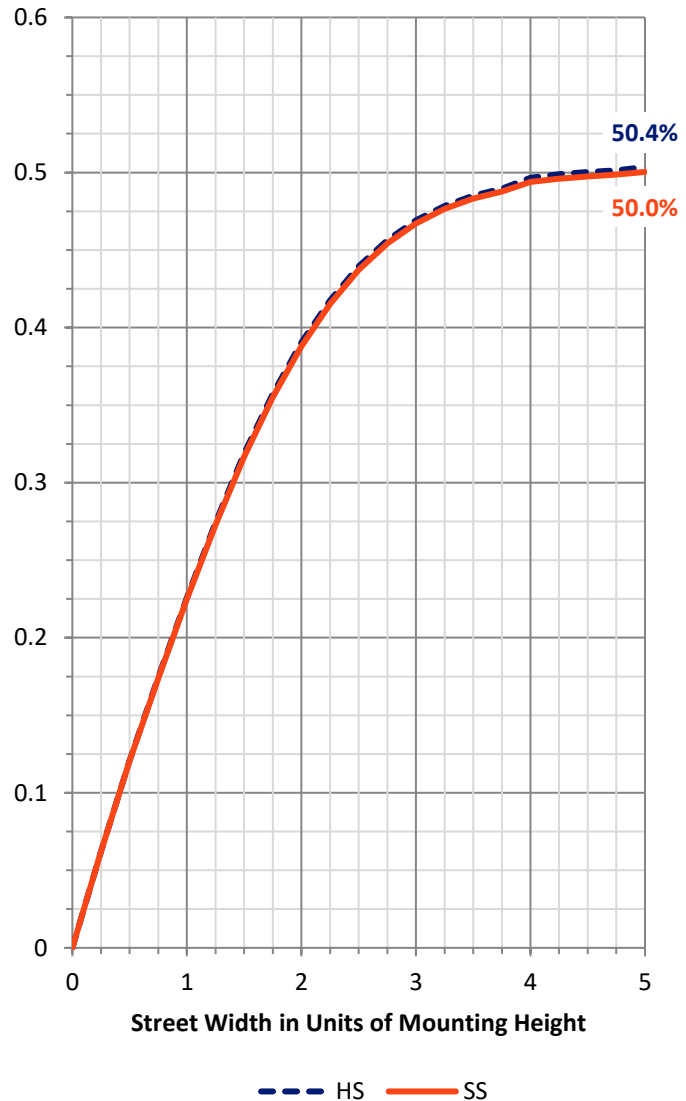
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3883.7	0.0	3883.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3883.7	0.0	3883.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7767.5	0.0	7767.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.9	0.8
10°-20°	193.5	2.5
20°-30°	322.1	4.1
30°-40°	487.1	6.3
40°-50°	809.4	10.4
50°-60°	1527.3	19.7
60°-70°	2578.9	33.2
70°-80°	1694.6	21.8
80°-90°	88.8	1.1
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°	7767.5	100.0
0°-180°	7767.5	100.0

**Coefficient of Utilization**



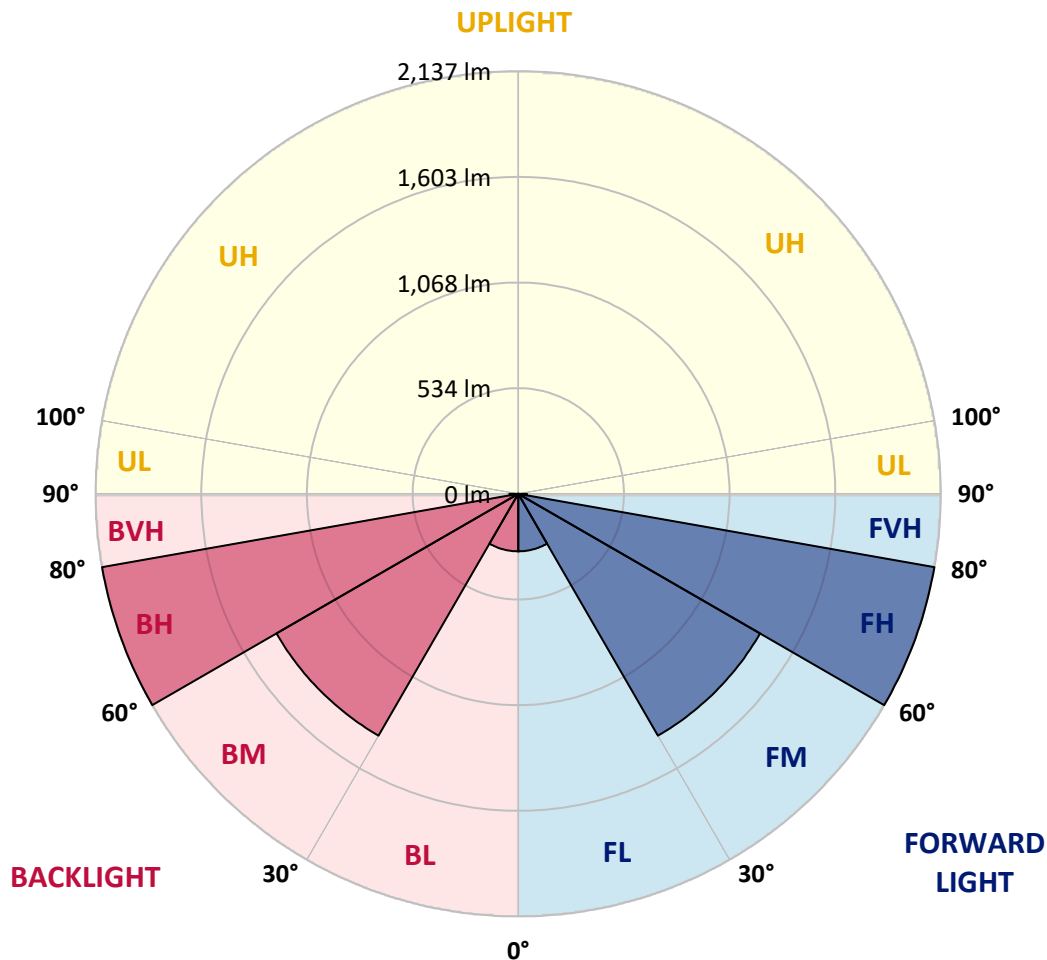
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	290.8	3.7			
FM (30°-60°)	1411.9	18.2			
FH (60°-80°)	2136.7	27.5			G2/5000
FVH (80°-90°)	44.4	0.6			G1/100
BL (0°-30°)	290.8	3.7	B1/500		
BM (30°-60°)	1411.9	18.2	B2/2500		
BH (60°-80°)	2136.7	27.5	B3/2500		G2/5000
BVH (80°-90°)	44.4	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	708.6	708.6	708.6	708.6	708.6	708.6	708.6	708.6	708.6	708.6	708.6
2.5°	704.1	706.1	705.3	703.7	703.7	702.5	703.7	704.5	705.7	706.5	706.1
5°	694.8	696.4	696.1	694.8	695.3	694.0	694.8	696.1	696.8	697.2	697.2
7.5°	686.7	688.4	687.6	685.5	685.5	684.3	684.7	685.9	687.2	687.6	687.6
10°	684.7	686.3	683.9	680.7	679.5	677.8	678.2	679.5	681.9	683.2	683.2
12.5°	685.5	686.7	684.3	679.5	678.2	676.6	676.6	677.8	681.1	682.8	683.2
15°	688.0	689.2	685.5	680.3	679.1	677.8	677.4	679.1	682.8	685.5	685.9
17.5°	692.4	693.6	688.0	680.7	679.1	679.5	679.1	680.3	685.9	691.2	691.2
20°	696.4	697.2	689.6	680.7	679.1	679.5	679.1	681.5	688.8	696.1	696.4
22.5°	697.6	698.4	691.2	683.5	682.3	682.8	682.3	684.7	691.6	698.8	698.8
25°	698.0	699.3	693.6	687.6	689.6	690.3	689.6	689.9	695.3	701.7	701.3
27.5°	704.1	705.7	700.5	695.3	696.4	696.1	697.2	698.4	702.5	709.0	707.4
30°	716.6	717.8	713.4	708.2	707.4	704.5	708.2	712.2	716.6	722.3	721.1
32.5°	737.2	739.6	734.0	728.4	724.7	723.0	725.9	732.8	738.8	744.9	742.5
35°	771.5	773.2	767.9	757.4	750.9	750.9	753.4	762.3	771.9	779.6	776.7
37.5°	820.0	821.9	812.7	800.2	790.5	790.5	793.8	803.0	817.5	828.4	824.4
40°	878.9	881.7	870.0	857.1	847.9	846.2	850.2	860.8	874.5	888.2	883.8
42.5°	950.0	953.2	937.9	926.6	919.3	919.3	921.3	931.0	943.5	960.4	959.3
45°	1040.8	1046.4	1025.5	1014.1	1007.3	1008.9	1010.1	1018.6	1029.9	1049.3	1048.5
47.5°	1149.0	1154.7	1132.4	1120.7	1119.5	1127.2	1122.4	1128.4	1134.5	1156.7	1150.3
50°	1271.7	1281.5	1266.1	1265.3	1267.7	1281.9	1270.6	1273.8	1266.9	1281.0	1272.5
52.5°	1422.0	1436.0	1433.3	1438.1	1465.1	1494.2	1468.4	1457.0	1431.2	1435.7	1420.8
55°	1604.0	1625.4	1629.4	1658.6	1719.8	1779.2	1724.4	1678.7	1623.8	1613.8	1598.0
57.5°	1811.2	1828.1	1847.5	1906.8	2021.5	2126.9	2021.5	1920.5	1834.1	1813.5	1799.0
60°	2034.0	2055.0	2073.6	2161.2	2331.6	2479.7	2328.3	2168.1	2053.8	2025.9	2001.7
62.5°	2273.4	2300.5	2313.4	2410.7	2609.3	2786.2	2612.1	2418.0	2291.2	2261.3	2237.1
65°	2503.2	2525.3	2539.8	2643.7	2833.4	3010.6	2846.3	2655.0	2524.6	2485.3	2465.9
67.5°	2610.2	2622.3	2657.7	2775.3	2975.5	3177.8	3009.4	2787.8	2642.0	2573.4	2574.2
70°	2453.4	2428.8	2514.4	2702.6	2992.5	3280.3	3031.2	2696.9	2518.4	2407.0	2433.7
72.5°	1895.9	1853.5	2002.1	2323.9	2798.7	3214.9	2818.0	2342.0	2094.6	1868.5	1924.5
75°	1031.6	983.5	1188.6	1595.5	2231.8	2786.6	2283.1	1641.1	1323.5	1023.9	1090.5
77.5°	291.1	273.0	438.5	771.9	1342.4	1956.5	1394.1	788.8	520.0	308.4	342.8
80°	89.2	86.4	117.1	232.6	570.1	937.1	547.9	235.3	148.9	94.1	99.3
82.5°	52.9	48.5	58.1	84.8	145.3	294.3	141.3	88.5	71.0	47.7	51.7
85°	30.2	28.3	34.3	41.2	48.9	62.6	40.8	42.0	37.9	25.4	26.6
87.5°	12.5	11.3	13.3	12.9	11.3	14.6	10.9	12.9	15.4	10.0	9.3
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)