

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: P964490

Luminaire Tested: **NAV-SB3C-727-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P964490  
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-SB3C-727-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21609 lumens  
Efficiency: N/A  
Efficacy: 144.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

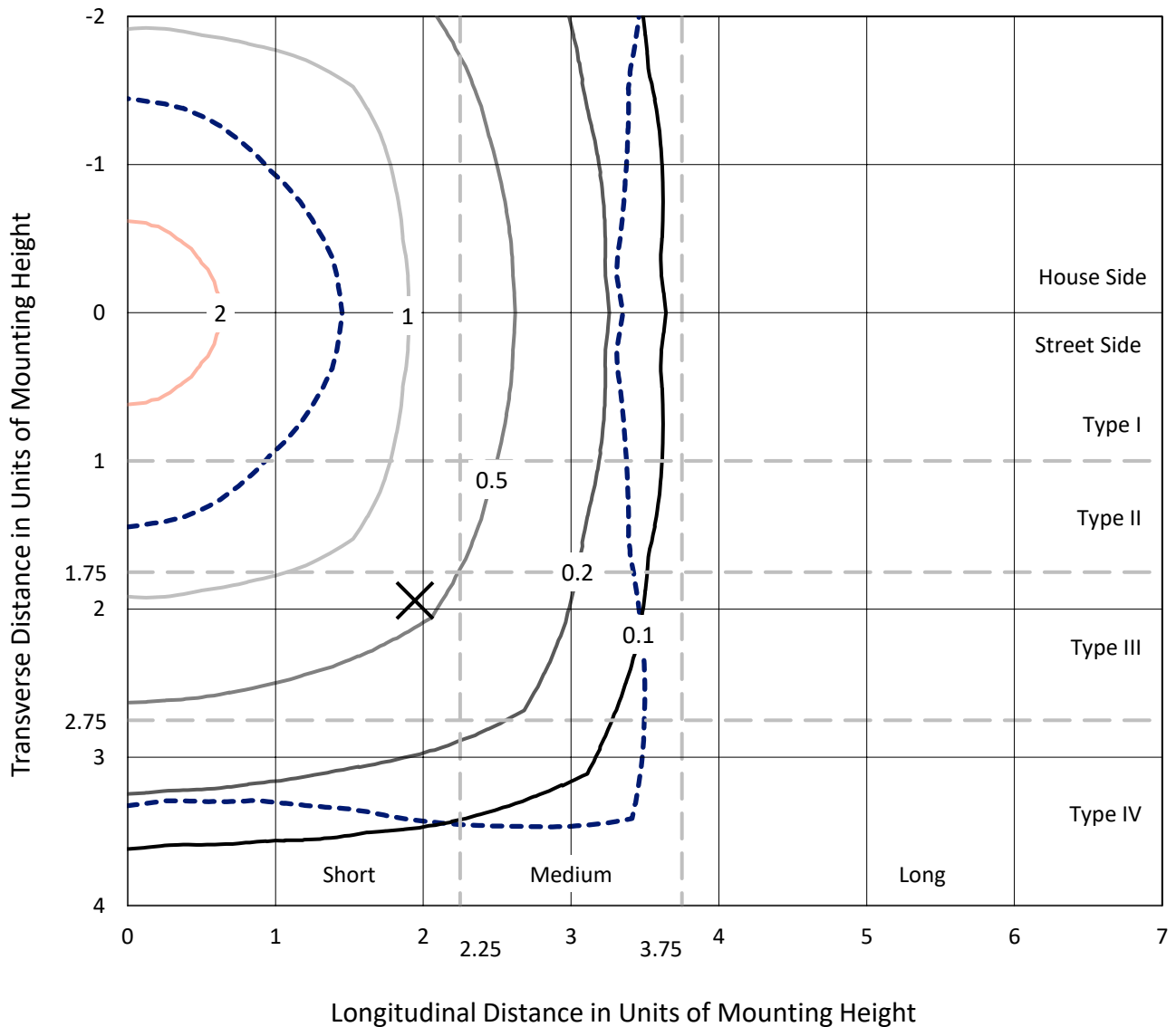
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P964490  
 CATALOG NUMBER: NAV-SB3C-727-U-5WQ

### Iso-Footcandle Lines of Horizontal Illumination

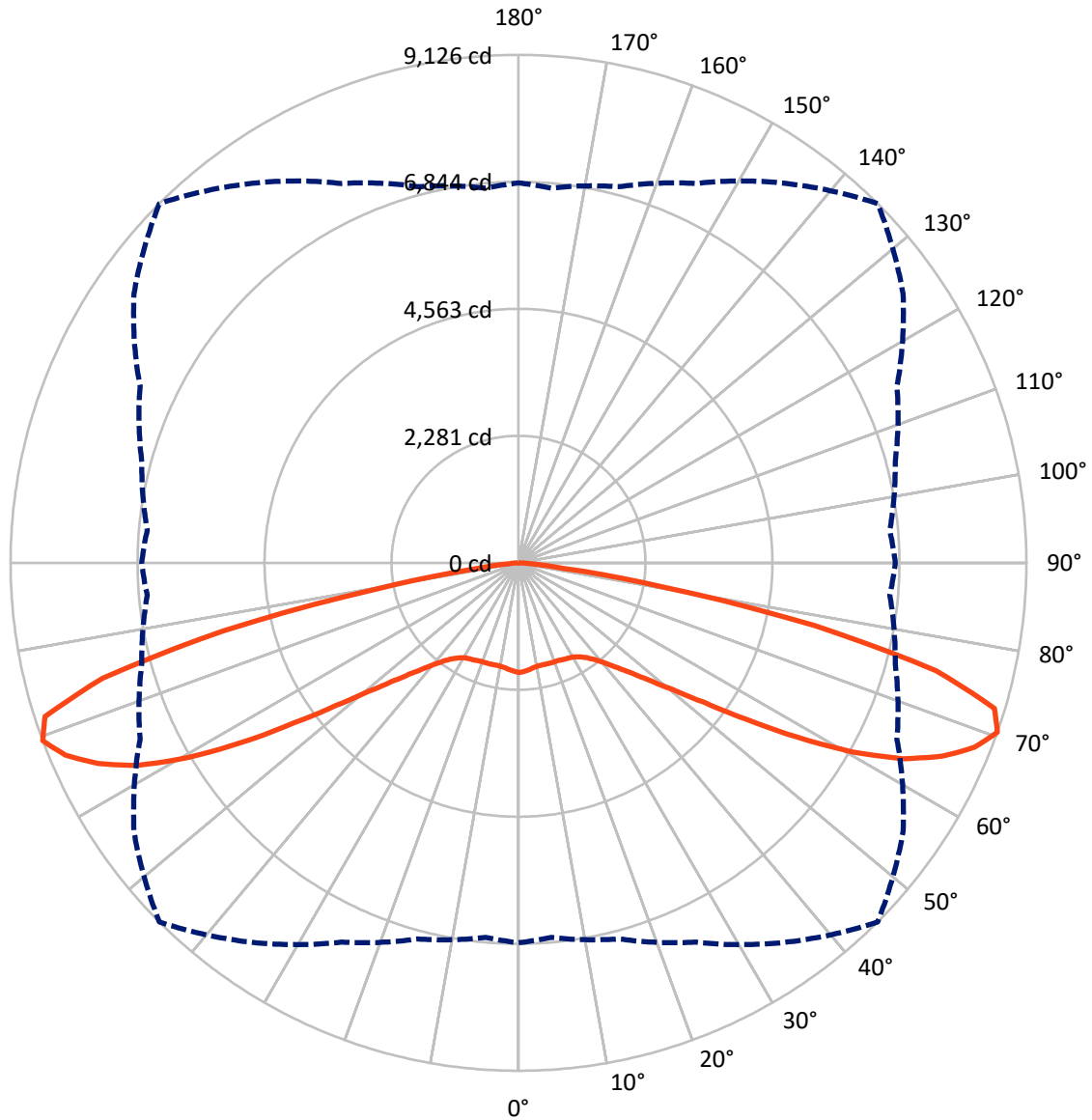
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type V - Short - N/A

REPORT NUMBER: P964490  
CATALOG NUMBER: NAV-SB3C-727-U-5WQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P964490  
 CATALOG NUMBER: NAV-SB3C-727-U-5WQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10804.5	0.0	10804.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10804.5	0.0	10804.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21609.0	0.0	21609.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.4	0.8
10°-20°	538.4	2.5
20°-30°	896.0	4.1
30°-40°	1355.0	6.3
40°-50°	2251.7	10.4
50°-60°	4248.9	19.7
60°-70°	7174.4	33.2
70°-80°	4714.3	21.8
80°-90°	247.0	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°	21609.0	100.0
0°-180°	21609.0	100.0

**Coefficient of Utilization**



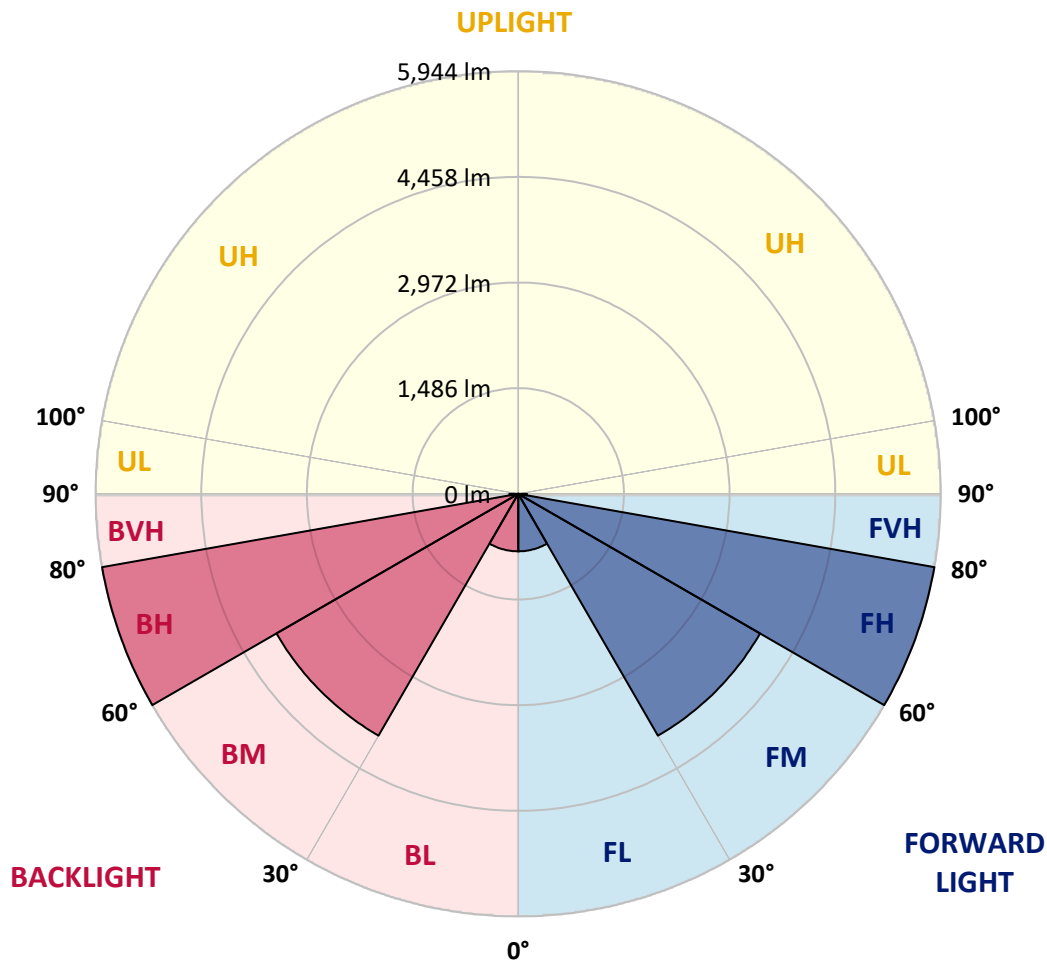
REPORT NUMBER: P964490  
 CATALOG NUMBER: NAV-SB3C-727-U-5WQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	808.9	3.7			
FM (30°-60°)	3927.8	18.2			
FH (60°-80°)	5944.4	27.5			G3/7500
FVH (80°-90°)	123.5	0.6			G2/225
BL (0°-30°)	808.9	3.7	B2/1000		
BM (30°-60°)	3927.8	18.2	B3/5000		
BH (60°-80°)	5944.4	27.5	B5		G3/7500
BVH (80°-90°)	123.5	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short



REPORT NUMBER: P964490  
 CATALOG NUMBER: NAV-SB3C-727-U-5WQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1971.2	1971.2	1971.2	1971.2	1971.2	1971.2	1971.2	1971.2	1971.2	1971.2	1971.2
2.5°	1958.8	1964.4	1962.2	1957.7	1957.7	1954.4	1957.7	1959.9	1963.3	1965.5	1964.4
5°	1932.9	1937.5	1936.3	1932.9	1934.1	1930.8	1932.9	1936.3	1938.6	1939.7	1939.7
7.5°	1910.5	1915.0	1912.8	1907.1	1907.1	1903.8	1905.0	1908.2	1911.6	1912.8	1912.8
10°	1905.0	1909.4	1902.7	1893.7	1890.3	1885.8	1886.9	1890.3	1897.1	1900.5	1900.5
12.5°	1907.1	1910.5	1903.8	1890.3	1886.9	1882.4	1882.4	1885.8	1894.8	1899.3	1900.5
15°	1913.9	1917.3	1907.1	1892.6	1889.2	1885.8	1884.7	1889.2	1899.3	1907.1	1908.2
17.5°	1926.3	1929.7	1913.9	1893.7	1889.2	1890.3	1889.2	1892.6	1908.2	1922.9	1922.9
20°	1937.5	1939.7	1918.4	1893.7	1889.2	1890.3	1889.2	1895.9	1916.1	1936.3	1937.5
22.5°	1940.8	1943.1	1922.9	1901.6	1898.2	1899.3	1898.2	1905.0	1924.0	1944.2	1944.2
25°	1942.0	1945.3	1929.7	1912.8	1918.4	1920.6	1918.4	1919.5	1934.1	1952.1	1951.0
27.5°	1958.8	1963.3	1948.7	1934.1	1937.5	1936.3	1939.7	1943.1	1954.4	1972.3	1967.8
30°	1993.6	1997.0	1984.7	1970.0	1967.8	1959.9	1970.0	1981.3	1993.6	2009.4	2006.0
32.5°	2050.9	2057.7	2041.9	2026.2	2016.1	2011.7	2019.5	2038.5	2055.4	2072.2	2065.5
35°	2146.4	2150.9	2136.3	2107.1	2089.2	2089.2	2095.8	2120.5	2147.5	2168.9	2161.0
37.5°	2281.1	2286.8	2260.9	2226.1	2199.1	2199.1	2208.2	2234.0	2274.5	2304.8	2293.5
40°	2445.1	2453.0	2420.4	2384.6	2358.6	2354.2	2365.4	2394.6	2432.8	2471.0	2458.7
42.5°	2642.9	2651.8	2609.1	2577.7	2557.5	2557.5	2563.1	2590.1	2624.8	2672.1	2668.7
45°	2895.5	2911.3	2852.9	2821.4	2802.4	2806.9	2810.2	2833.8	2865.2	2919.1	2916.9
47.5°	3196.6	3212.2	3150.5	3117.9	3114.6	3135.9	3122.5	3139.3	3156.2	3217.9	3199.9
50°	3538.0	3565.0	3522.3	3520.1	3526.8	3566.1	3534.6	3543.6	3524.6	3563.8	3540.2
52.5°	3955.9	3995.1	3987.2	4000.8	4076.0	4156.9	4085.0	4053.6	3981.7	3994.0	3952.5
55°	4462.4	4521.9	4533.2	4614.0	4784.7	4949.8	4797.1	4670.2	4517.4	4489.4	4445.5
57.5°	5038.6	5085.7	5139.7	5304.8	5623.8	5916.9	5623.8	5342.9	5102.7	5045.4	5004.9
60°	5658.6	5716.9	5768.7	6012.3	6486.4	6898.6	6477.4	6031.5	5713.7	5636.1	5568.7
62.5°	6324.7	6399.9	6435.8	6706.5	7259.2	7751.0	7266.9	6726.8	6374.1	6290.9	6223.5
65°	6963.7	7025.5	7065.9	7354.6	7882.5	8375.6	7918.4	7386.0	7023.2	6914.3	6860.4
67.5°	7261.4	7295.0	7393.9	7720.7	8277.8	8840.5	8372.2	7755.6	7350.1	7159.1	7161.4
70°	6825.6	6757.0	6995.1	7518.6	8325.0	9125.9	8432.9	7502.8	7006.4	6696.4	6770.5
72.5°	5274.4	5156.5	5569.8	6465.0	7785.9	8943.8	7839.8	6515.5	5827.0	5198.1	5354.2
75°	2869.7	2736.0	3306.6	4438.8	6208.9	7752.2	6351.6	4565.8	3681.8	2848.4	3033.7
77.5°	809.9	759.3	1219.8	2147.5	3734.6	5443.0	3878.3	2194.7	1446.7	858.1	953.6
80°	248.3	240.4	325.7	647.0	1585.9	2606.9	1524.2	654.8	414.4	261.7	276.3
82.5°	147.1	134.8	161.7	235.9	404.4	818.8	393.1	246.0	197.7	132.5	143.8
85°	84.3	78.6	95.4	114.6	135.9	174.0	113.5	116.8	105.6	70.7	74.1
87.5°	34.8	31.5	37.1	36.0	31.5	40.4	30.3	36.0	42.6	28.1	25.8
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)