

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: P884922

Luminaire Tested: **NAV-SB6A-722-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884922
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-722-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21946 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

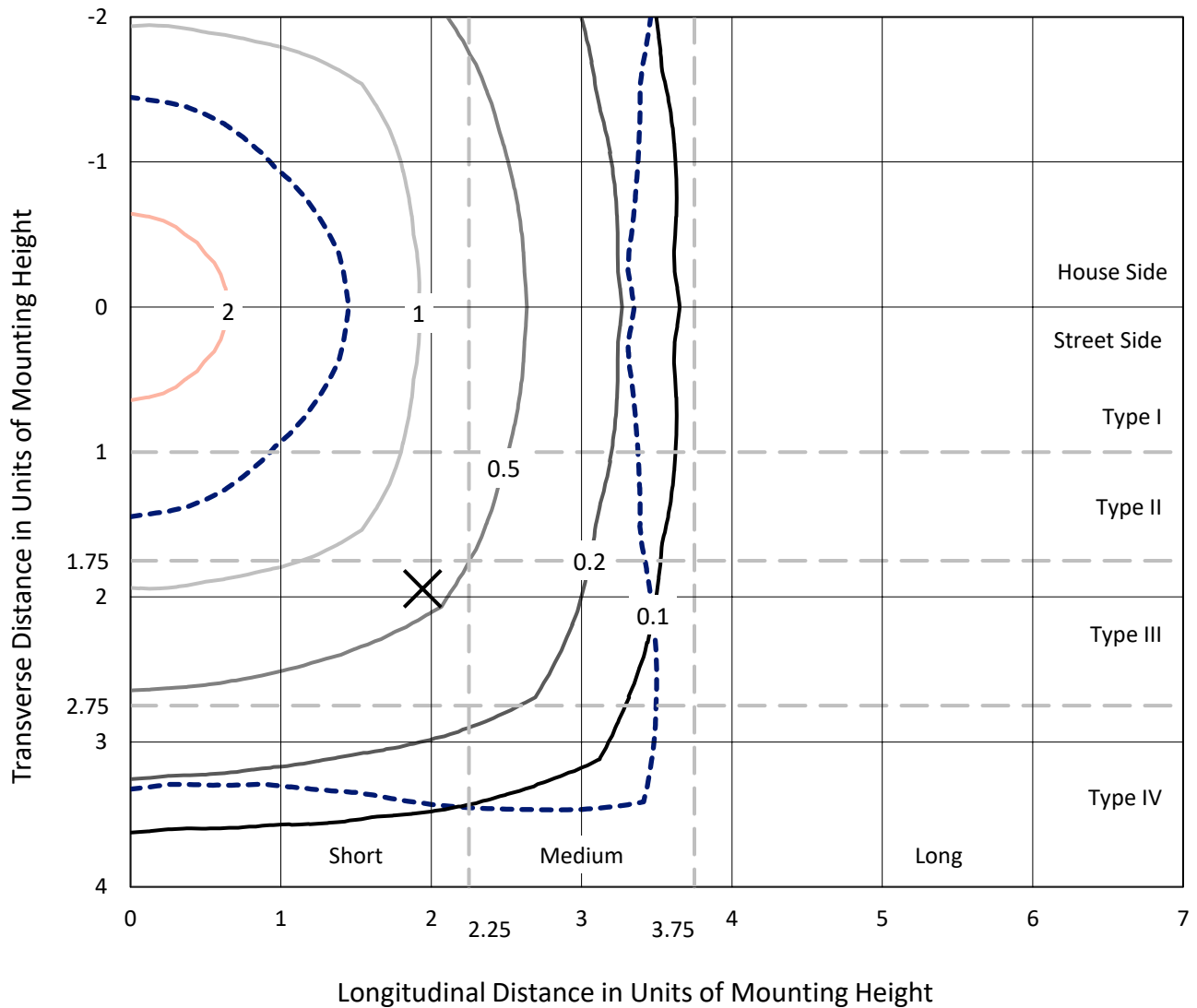
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

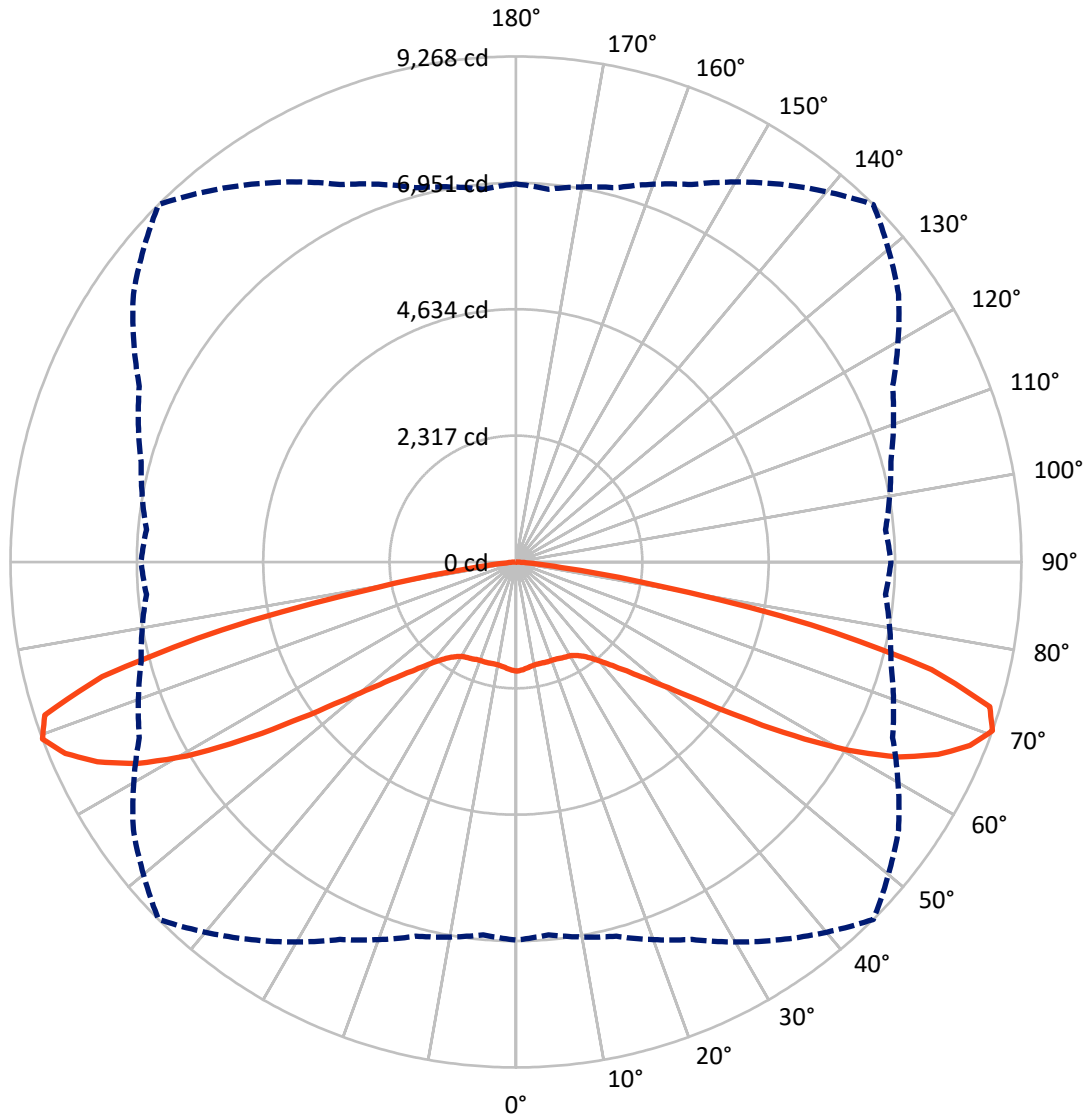
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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
House Side	Lumens	10973.0	0.0	10973.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10973.0	0.0	10973.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21946.0	0.0	21946.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.2	0.8
10°-20°	546.8	2.5
20°-30°	910.0	4.1
30°-40°	1376.1	6.3
40°-50°	2286.8	10.4
50°-60°	4315.1	19.7
60°-70°	7286.3	33.2
70°-80°	4787.8	21.8
80°-90°	250.8	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°	21946.0	100.0
0°-180°	21946.0	100.0



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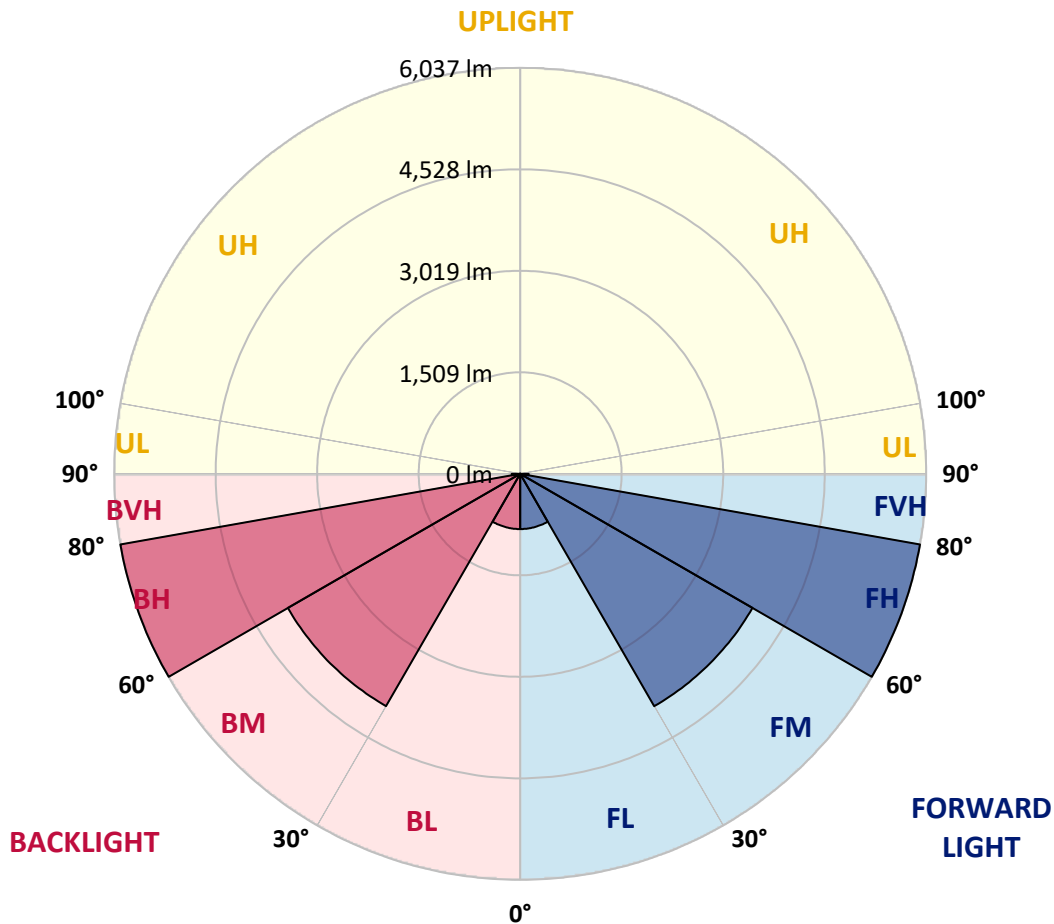
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	821.5	3.7			
FM (30°-60°)	3989.0	18.2			
FH (60°-80°)	6037.0	27.5			G3/7500
FVH (80°-90°)	125.4	0.6			G2/225
BL (0°-30°)	821.5	3.7	B2/1000		
BM (30°-60°)	3989.0	18.2	B3/5000		
BH (60°-80°)	6037.0	27.5	B5		G3/7500
BVH (80°-90°)	125.4	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2001.9	2001.9	2001.9	2001.9	2001.9	2001.9	2001.9	2001.9	2001.9	2001.9	2001.9
2.5°	1989.4	1995.1	1992.8	1988.2	1988.2	1984.8	1988.2	1990.5	1993.9	1996.2	1995.1
5°	1963.1	1967.7	1966.6	1963.1	1964.3	1960.9	1963.1	1966.6	1968.8	1970.0	1970.0
7.5°	1940.3	1944.9	1942.6	1936.9	1936.9	1933.5	1934.6	1938.0	1941.5	1942.6	1942.6
10°	1934.6	1939.2	1932.3	1923.2	1919.8	1915.2	1916.4	1919.8	1926.6	1930.1	1930.1
12.5°	1936.9	1940.3	1933.5	1919.8	1916.4	1911.8	1911.8	1915.2	1924.3	1928.9	1930.1
15°	1943.7	1947.2	1936.9	1922.1	1918.6	1915.2	1914.1	1918.6	1928.9	1936.9	1938.0
17.5°	1956.3	1959.7	1943.7	1923.2	1918.6	1919.8	1918.6	1922.1	1938.0	1952.9	1952.9
20°	1967.7	1970.0	1948.3	1923.2	1918.6	1919.8	1918.6	1925.5	1946.0	1966.6	1967.7
22.5°	1971.1	1973.4	1952.9	1931.2	1927.8	1928.9	1927.8	1934.6	1954.0	1974.5	1974.5
25°	1972.3	1975.7	1959.7	1942.6	1948.3	1950.6	1948.3	1949.4	1964.3	1982.5	1981.4
27.5°	1989.4	1993.9	1979.1	1964.3	1967.7	1966.6	1970.0	1973.4	1984.8	2003.1	1998.5
30°	2024.7	2028.2	2015.6	2000.8	1998.5	1990.5	2000.8	2012.2	2024.7	2040.7	2037.3
32.5°	2082.9	2089.8	2073.8	2057.8	2047.5	2043.0	2051.0	2070.4	2087.5	2104.6	2097.7
35°	2179.9	2184.4	2169.6	2139.9	2121.7	2121.7	2128.5	2153.6	2181.0	2202.7	2194.7
37.5°	2316.7	2322.5	2296.2	2260.9	2233.5	2233.5	2242.6	2268.8	2309.9	2340.7	2329.3
40°	2483.3	2491.3	2458.2	2421.7	2395.5	2390.9	2402.3	2432.0	2470.7	2509.5	2497.0
42.5°	2684.1	2693.2	2649.8	2617.9	2597.4	2597.4	2603.1	2630.4	2665.8	2713.7	2710.3
45°	2940.7	2956.7	2897.4	2865.4	2846.0	2850.6	2854.0	2878.0	2909.9	2964.7	2962.4
47.5°	3246.4	3262.4	3199.6	3166.6	3163.1	3184.8	3171.1	3188.2	3205.3	3268.1	3249.8
50°	3593.2	3620.6	3577.2	3574.9	3581.8	3621.7	3589.8	3598.9	3579.5	3619.4	3595.5
52.5°	4017.5	4057.4	4049.5	4063.2	4139.6	4221.7	4148.7	4116.8	4043.8	4056.3	4014.1
55°	4532.0	4592.4	4603.8	4686.0	4859.4	5027.0	4871.9	4743.0	4587.9	4559.4	4514.9
57.5°	5117.2	5165.1	5219.8	5387.5	5711.5	6009.2	5711.5	5426.3	5182.2	5124.0	5082.9
60°	5746.8	5806.1	5858.6	6106.1	6587.5	7006.1	6578.4	6125.5	5802.7	5724.0	5655.6
62.5°	6423.2	6499.7	6536.2	6811.1	7372.3	7871.9	7380.3	6831.6	6473.4	6389.0	6320.6
65°	7072.3	7135.0	7176.1	7469.3	8005.4	8506.2	8041.9	7501.2	7132.8	7022.1	6967.4
67.5°	7374.6	7408.8	7509.2	7841.1	8406.9	8978.4	8502.7	7876.5	7464.7	7270.8	7273.1
70°	6932.0	6862.4	7104.2	7635.8	8454.8	9268.1	8564.3	7619.8	7115.6	6800.8	6876.1
72.5°	5356.7	5236.9	5656.7	6565.8	7907.3	9083.3	7962.0	6617.2	5917.9	5279.1	5437.7
75°	2914.5	2778.7	3358.2	4508.0	6305.8	7873.1	6450.6	4636.9	3739.2	2892.8	3081.0
77.5°	822.4	771.1	1238.8	2181.0	3792.8	5527.8	3938.8	2228.9	1469.2	871.5	968.4
80°	252.1	244.1	330.8	657.0	1610.7	2647.5	1547.9	665.0	420.9	265.8	280.6
82.5°	149.4	136.9	164.3	239.5	410.6	831.6	399.2	249.8	200.8	134.6	146.0
85°	85.6	79.8	97.0	116.4	138.0	176.8	115.2	118.6	107.2	71.9	75.3
87.5°	35.4	31.9	37.6	36.5	31.9	41.1	30.8	36.5	43.3	28.5	26.2
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)