

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: P964459

Luminaire Tested: **NAV-SB3C-722-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964459
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-722-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19245.4 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

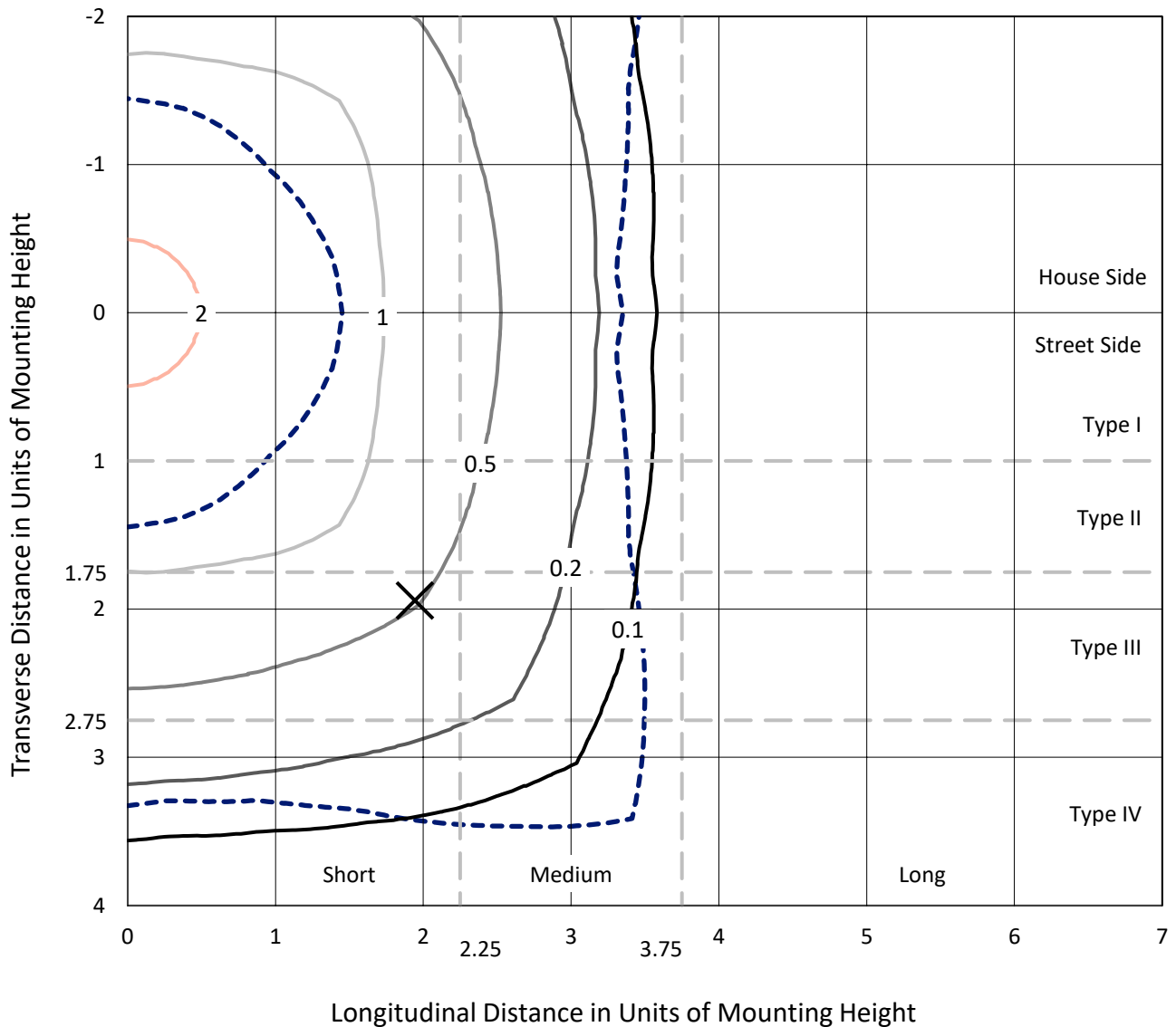
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P964459
 CATALOG NUMBER: NAV-SB3C-722-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

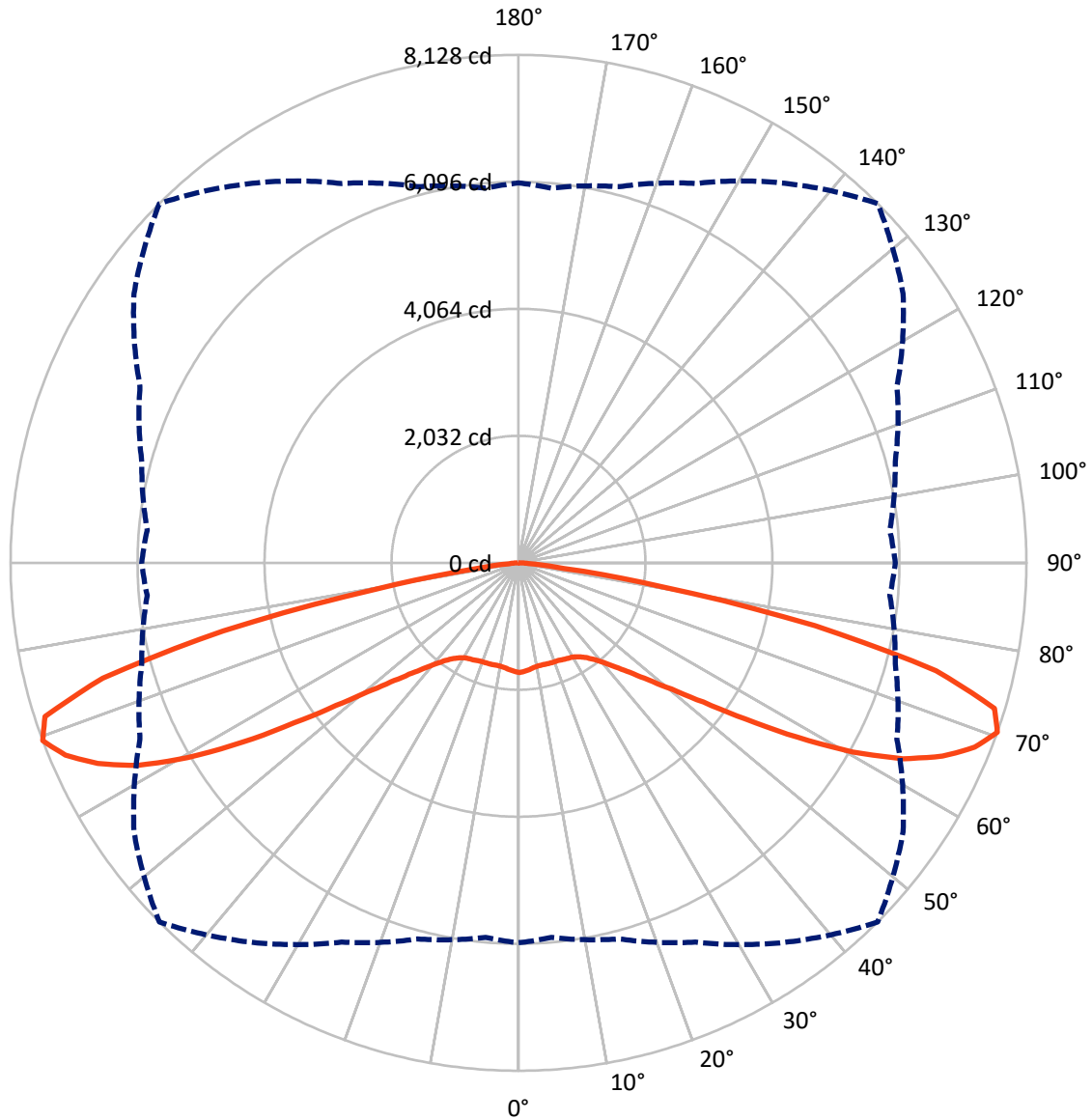
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - N/A

REPORT NUMBER: P964459
CATALOG NUMBER: NAV-SB3C-722-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P964459
 CATALOG NUMBER: NAV-SB3C-722-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9622.7	0.0	9622.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9622.7	0.0	9622.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	19245.4	0.0	19245.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.3	0.8
10°-20°	479.5	2.5
20°-30°	798.0	4.1
30°-40°	1206.8	6.3
40°-50°	2005.4	10.4
50°-60°	3784.1	19.7
60°-70°	6389.7	33.2
70°-80°	4198.7	21.8
80°-90°	220.0	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°	19245.4	100.0
0°-180°	19245.4	100.0

Coefficient of Utilization



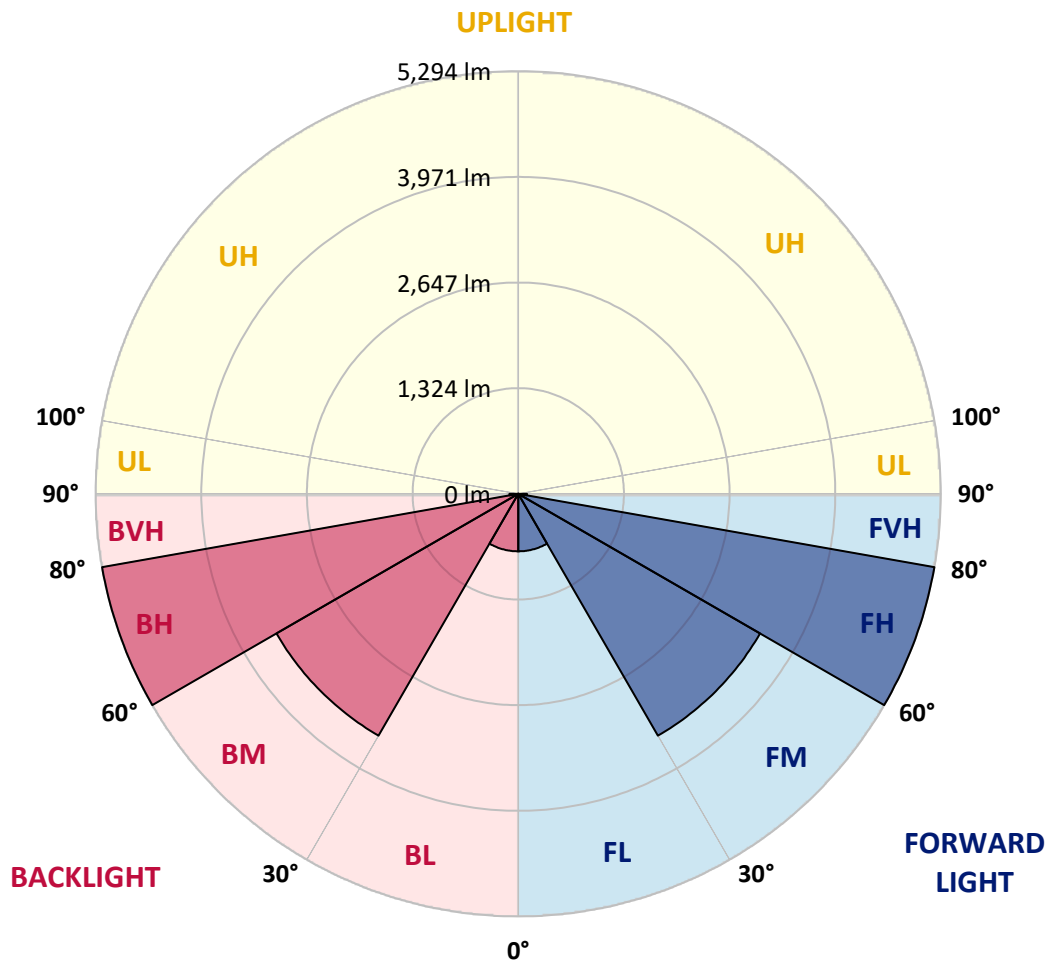
REPORT NUMBER: P964459
 CATALOG NUMBER: NAV-SB3C-722-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	720.4	3.7			
FM (30°-60°)	3498.2	18.2			
FH (60°-80°)	5294.2	27.5			G3/7500
FVH (80°-90°)	110.0	0.6			G2/225
BL (0°-30°)	720.4	3.7	B2/1000		
BM (30°-60°)	3498.2	18.2	B3/5000		
BH (60°-80°)	5294.2	27.5	B5		G3/7500
BVH (80°-90°)	110.0	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: P964459
 CATALOG NUMBER: NAV-SB3C-722-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1755.5	1755.5	1755.5	1755.5	1755.5	1755.5	1755.5	1755.5	1755.5	1755.5	1755.5
2.5°	1744.6	1749.6	1747.5	1743.5	1743.5	1740.6	1743.5	1745.6	1748.5	1750.6	1749.6
5°	1721.6	1725.6	1724.6	1721.6	1722.5	1719.5	1721.6	1724.6	1726.5	1727.5	1727.5
7.5°	1701.5	1705.6	1703.6	1698.5	1698.5	1695.6	1696.6	1699.6	1702.5	1703.6	1703.6
10°	1696.6	1700.6	1694.5	1686.5	1683.6	1679.6	1680.6	1683.6	1689.5	1692.6	1692.6
12.5°	1698.5	1701.5	1695.6	1683.6	1680.6	1676.6	1676.6	1679.6	1687.6	1691.6	1692.6
15°	1704.6	1707.5	1698.5	1685.5	1682.5	1679.6	1678.5	1682.5	1691.6	1698.5	1699.6
17.5°	1715.5	1718.5	1704.6	1686.5	1682.5	1683.6	1682.5	1685.5	1699.6	1712.6	1712.6
20°	1725.6	1727.5	1708.6	1686.5	1682.5	1683.6	1682.5	1688.6	1706.5	1724.6	1725.6
22.5°	1728.6	1730.6	1712.6	1693.5	1690.5	1691.6	1690.5	1696.6	1713.6	1731.5	1731.5
25°	1729.6	1732.6	1718.5	1703.6	1708.6	1710.5	1708.6	1709.6	1722.5	1738.6	1737.6
27.5°	1744.6	1748.5	1735.5	1722.5	1725.6	1724.6	1727.5	1730.6	1740.6	1756.5	1752.5
30°	1775.6	1778.6	1767.6	1754.6	1752.5	1745.6	1754.6	1764.5	1775.6	1789.5	1786.6
32.5°	1826.6	1832.6	1818.6	1804.6	1795.6	1791.6	1798.6	1815.6	1830.5	1845.6	1839.6
35°	1911.6	1915.6	1902.6	1876.6	1860.6	1860.6	1866.6	1888.6	1912.6	1931.6	1924.6
37.5°	2031.7	2036.7	2013.6	1982.7	1958.7	1958.7	1966.7	1989.6	2025.6	2052.7	2042.6
40°	2177.7	2184.7	2155.7	2123.7	2100.6	2096.6	2106.7	2132.7	2166.7	2200.7	2189.7
42.5°	2353.8	2361.8	2323.8	2295.7	2277.8	2277.8	2282.8	2306.8	2337.7	2379.7	2376.8
45°	2578.8	2592.8	2540.9	2512.8	2495.8	2499.8	2502.8	2523.9	2551.8	2599.8	2597.9
47.5°	2846.9	2860.9	2805.9	2776.9	2773.9	2792.9	2780.9	2795.9	2811.0	2865.9	2849.9
50°	3151.1	3175.0	3137.0	3135.1	3141.0	3176.1	3148.0	3156.0	3139.1	3174.0	3153.0
52.5°	3523.1	3558.2	3551.1	3563.1	3630.1	3702.2	3638.1	3610.2	3546.2	3557.2	3520.2
55°	3974.3	4027.3	4037.3	4109.3	4261.3	4408.4	4272.4	4159.3	4023.3	3998.3	3959.3
57.5°	4487.4	4529.5	4577.4	4724.5	5008.7	5269.7	5008.7	4758.6	4544.4	4493.5	4457.4
60°	5039.6	5091.7	5137.7	5354.7	5776.9	6144.0	5768.9	5371.7	5088.6	5019.6	4959.6
62.5°	5632.8	5699.8	5731.9	5973.0	6465.1	6903.3	6472.1	5990.9	5676.9	5602.9	5542.8
65°	6202.0	6257.0	6293.0	6550.2	7020.2	7459.4	7052.3	6578.1	6255.1	6158.0	6110.0
67.5°	6467.1	6497.1	6585.1	6876.2	7372.4	7873.5	7456.4	6907.3	6546.2	6376.0	6378.1
70°	6079.0	6018.0	6230.1	6696.1	7414.4	8127.6	7510.4	6682.2	6240.0	5964.0	6030.0
72.5°	4697.5	4592.5	4960.6	5757.8	6934.2	7965.6	6982.3	5802.8	5189.7	4629.5	4768.5
75°	2555.8	2436.8	2944.9	3953.3	5529.8	6904.2	5656.9	4066.3	3279.1	2536.8	2701.9
77.5°	721.2	676.2	1086.4	1912.6	3326.1	4847.5	3454.1	1954.7	1288.4	764.2	849.3
80°	221.1	214.0	290.1	576.2	1412.4	2321.7	1357.4	583.2	369.1	233.1	246.1
82.5°	131.0	120.0	144.0	210.0	360.1	729.2	350.1	219.0	176.1	118.1	128.0
85°	75.0	70.0	85.1	102.0	121.1	155.1	101.1	104.0	94.0	63.0	66.0
87.5°	31.1	28.0	33.0	32.0	28.0	36.0	27.0	32.0	38.0	25.0	23.0
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)