

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: P883222

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

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883222
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-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: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18106 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

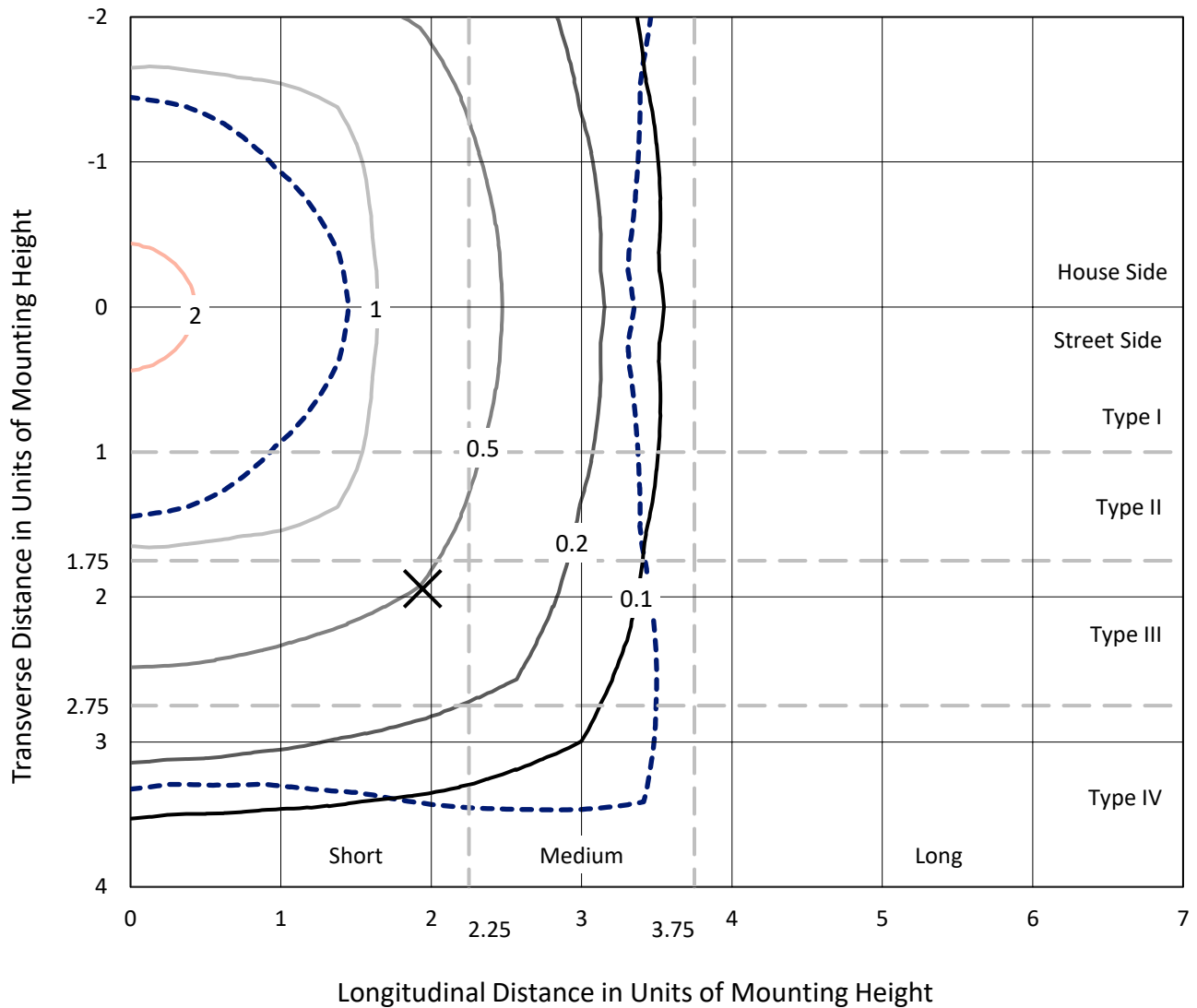
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P883222
 CATALOG NUMBER: NAV-SB3C-722-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

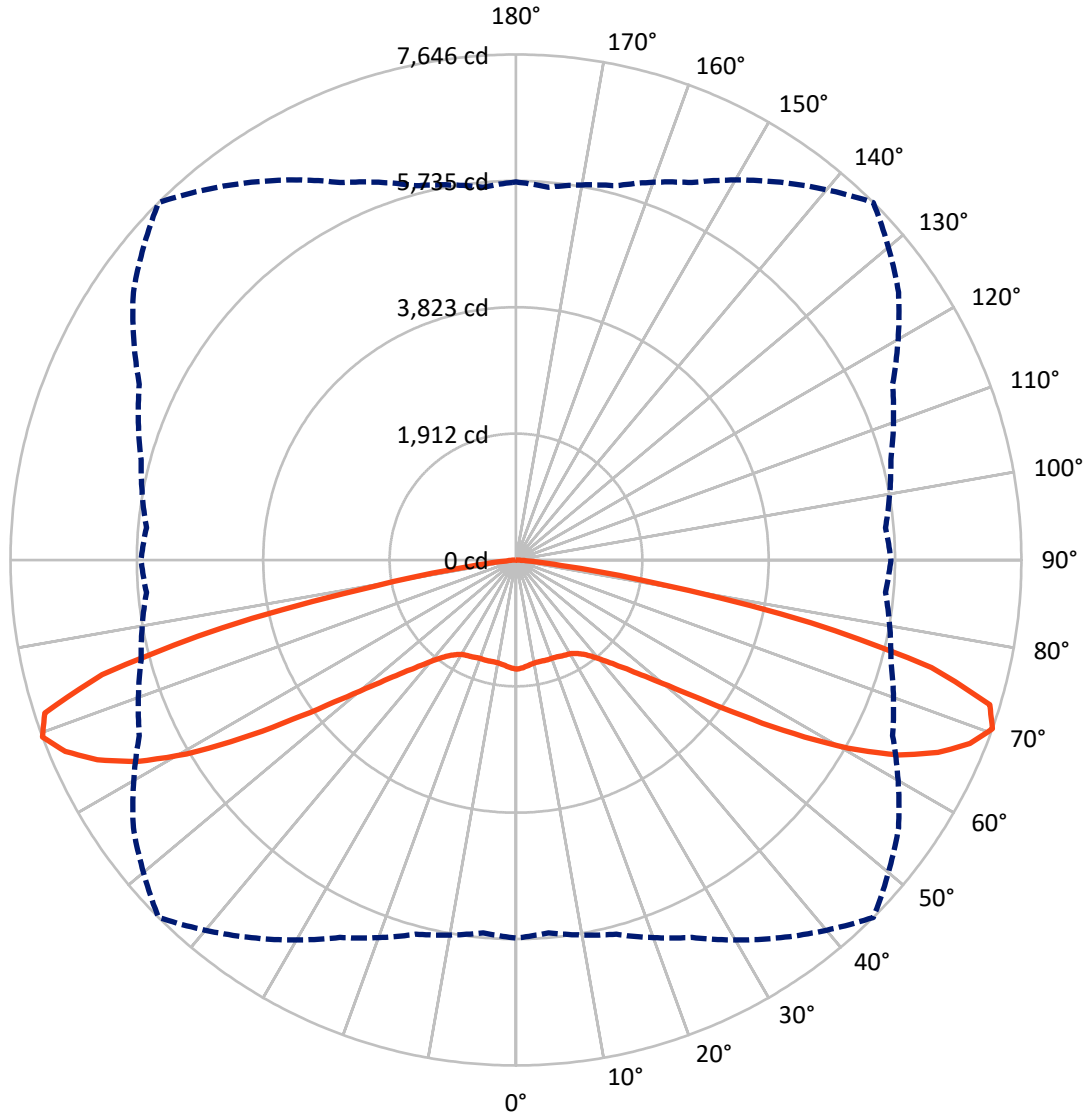
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - N/A

REPORT NUMBER: P883222
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: P883222
 CATALOG NUMBER: NAV-SB3C-722-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9053.0	0.0	9053.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9053.0	0.0	9053.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	18106.0	0.0	18106.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.6	0.8
10°-20°	451.1	2.5
20°-30°	750.7	4.1
30°-40°	1135.3	6.3
40°-50°	1886.7	10.4
50°-60°	3560.1	19.7
60°-70°	6011.4	33.2
70°-80°	3950.1	21.8
80°-90°	207.0	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°	18106.0	100.0
0°-180°	18106.0	100.0

Coefficient of Utilization



REPORT NUMBER: P883222

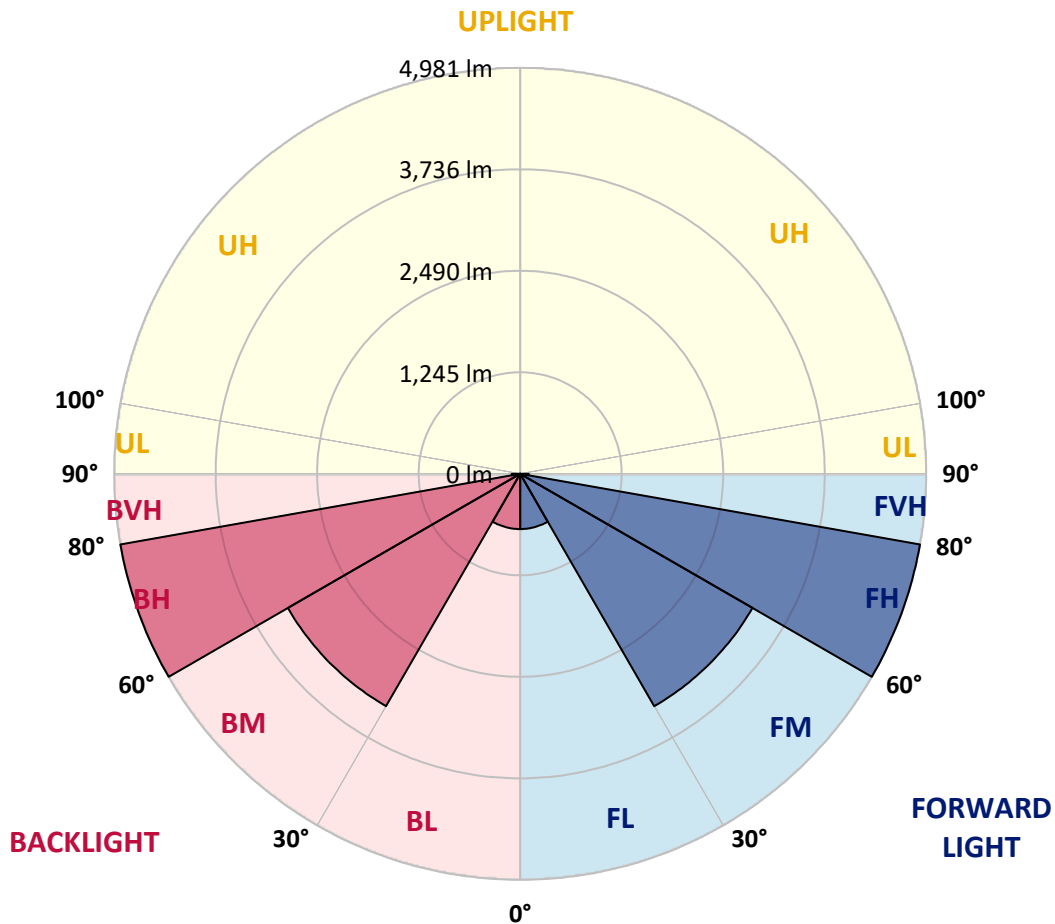
CATALOG NUMBER: NAV-SB3C-722-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	677.8	3.7			
FM (30°-60°)	3291.1	18.2			
FH (60°-80°)	4980.7	27.5			G2/5000
FVH (80°-90°)	103.5	0.6			G2/225
BL (0°-30°)	677.8	3.7	B2/1000		
BM (30°-60°)	3291.1	18.2	B3/5000		
BH (60°-80°)	4980.7	27.5	B4/5000		G2/5000
BVH (80°-90°)	103.5	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



REPORT NUMBER: P883222

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1651.6	1651.6	1651.6	1651.6	1651.6	1651.6	1651.6	1651.6	1651.6	1651.6	1651.6
2.5°	1641.3	1646.0	1644.1	1640.3	1640.3	1637.5	1640.3	1642.2	1645.0	1646.9	1646.0
5°	1619.6	1623.4	1622.5	1619.6	1620.6	1617.8	1619.6	1622.5	1624.3	1625.3	1625.3
7.5°	1600.8	1604.6	1602.7	1598.0	1598.0	1595.2	1596.1	1598.9	1601.8	1602.7	1602.7
10°	1596.1	1599.9	1594.2	1586.7	1583.9	1580.1	1581.0	1583.9	1589.5	1592.3	1592.3
12.5°	1598.0	1600.8	1595.2	1583.9	1581.0	1577.3	1577.3	1580.1	1587.6	1591.4	1592.3
15°	1603.6	1606.5	1598.0	1585.8	1582.9	1580.1	1579.2	1582.9	1591.4	1598.0	1598.9
17.5°	1614.0	1616.8	1603.6	1586.7	1582.9	1583.9	1582.9	1585.8	1598.9	1611.2	1611.2
20°	1623.4	1625.3	1607.4	1586.7	1582.9	1583.9	1582.9	1588.6	1605.5	1622.5	1623.4
22.5°	1626.2	1628.1	1611.2	1593.3	1590.5	1591.4	1590.5	1596.1	1612.1	1629.0	1629.0
25°	1627.2	1630.0	1616.8	1602.7	1607.4	1609.3	1607.4	1608.3	1620.6	1635.6	1634.7
27.5°	1641.3	1645.0	1632.8	1620.6	1623.4	1622.5	1625.3	1628.1	1637.5	1652.6	1648.8
30°	1670.5	1673.3	1662.9	1650.7	1648.8	1642.2	1650.7	1660.1	1670.5	1683.6	1680.8
32.5°	1718.4	1724.1	1710.9	1697.7	1689.3	1685.5	1692.1	1708.1	1722.2	1736.3	1730.7
35°	1798.4	1802.2	1790.0	1765.5	1750.4	1750.4	1756.1	1776.8	1799.4	1817.3	1810.7
37.5°	1911.4	1916.1	1894.4	1865.3	1842.7	1842.7	1850.2	1871.8	1905.7	1931.1	1921.7
40°	2048.8	2055.4	2028.1	1998.0	1976.3	1972.5	1982.0	2006.4	2038.4	2070.4	2060.1
42.5°	2214.4	2221.9	2186.2	2159.8	2142.9	2142.9	2147.6	2170.2	2199.4	2238.9	2236.1
45°	2426.2	2439.3	2390.4	2364.0	2348.0	2351.8	2354.6	2374.4	2400.7	2445.9	2444.0
47.5°	2678.4	2691.5	2639.8	2612.5	2609.7	2627.6	2616.3	2630.4	2644.5	2696.3	2681.2
50°	2964.5	2987.1	2951.3	2949.4	2955.1	2988.0	2961.6	2969.2	2953.2	2986.1	2966.3
52.5°	3314.6	3347.5	3340.9	3352.2	3415.3	3483.0	3422.8	3396.4	3336.2	3346.6	3311.7
55°	3739.0	3788.9	3798.3	3866.0	4009.1	4147.4	4019.4	3913.1	3785.1	3761.6	3724.9
57.5°	4221.8	4261.3	4306.5	4444.8	4712.1	4957.7	4712.1	4476.8	4275.4	4227.4	4193.5
60°	4741.3	4790.2	4833.5	5037.7	5434.9	5780.2	5427.3	5053.7	4787.4	4722.4	4666.0
62.5°	5299.3	5362.4	5392.5	5619.3	6082.3	6494.5	6088.9	5636.3	5340.7	5271.1	5214.6
65°	5834.8	5886.6	5920.5	6162.3	6604.6	7017.8	6634.8	6188.7	5884.7	5793.4	5748.2
67.5°	6084.2	6112.4	6195.3	6469.1	6935.9	7407.4	7015.0	6498.3	6158.6	5998.6	6000.5
70°	5719.1	5661.7	5861.2	6299.7	6975.4	7646.4	7065.8	6286.6	5870.6	5610.8	5673.0
72.5°	4419.4	4320.6	4666.9	5417.0	6523.7	7494.0	6568.9	5459.3	4882.4	4355.4	4486.2
75°	2404.5	2292.5	2770.6	3719.2	5202.4	6495.5	5321.9	3825.6	3084.9	2386.6	2541.9
77.5°	678.5	636.2	1022.0	1799.4	3129.2	4560.6	3249.6	1838.9	1212.1	719.0	799.0
80°	208.0	201.4	272.9	542.1	1328.8	2184.3	1277.1	548.7	347.3	219.3	231.5
82.5°	123.3	112.9	135.5	197.6	338.8	686.1	329.4	206.1	165.6	111.0	120.5
85°	70.6	65.9	80.0	96.0	113.9	145.9	95.1	97.9	88.5	59.3	62.1
87.5°	29.2	26.4	31.1	30.1	26.4	33.9	25.4	30.1	35.8	23.5	21.6
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)