

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: P962878

Luminaire Tested: **NAV-SB2D-722-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962878
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-SB2D-722-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17430.1 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

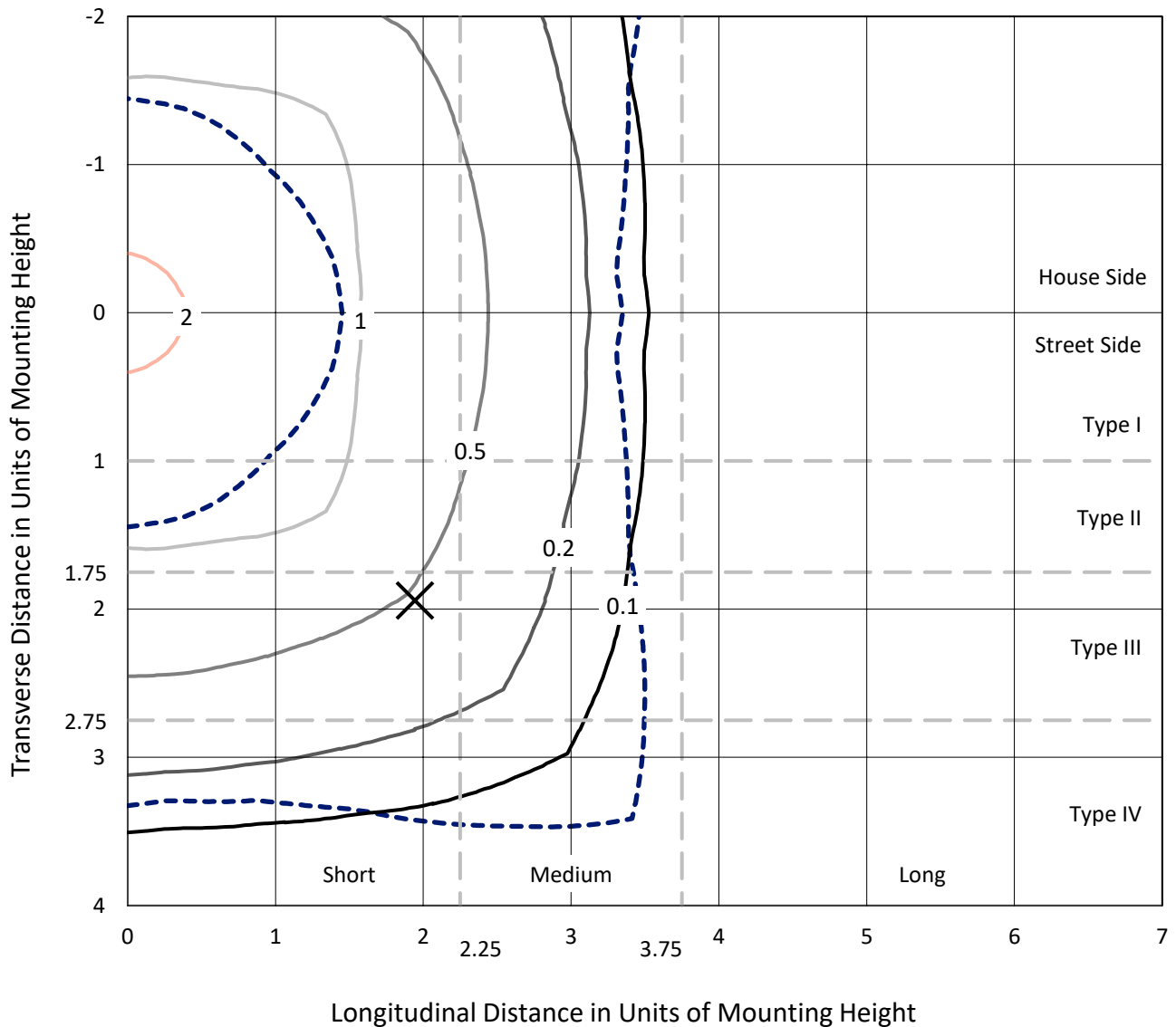
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

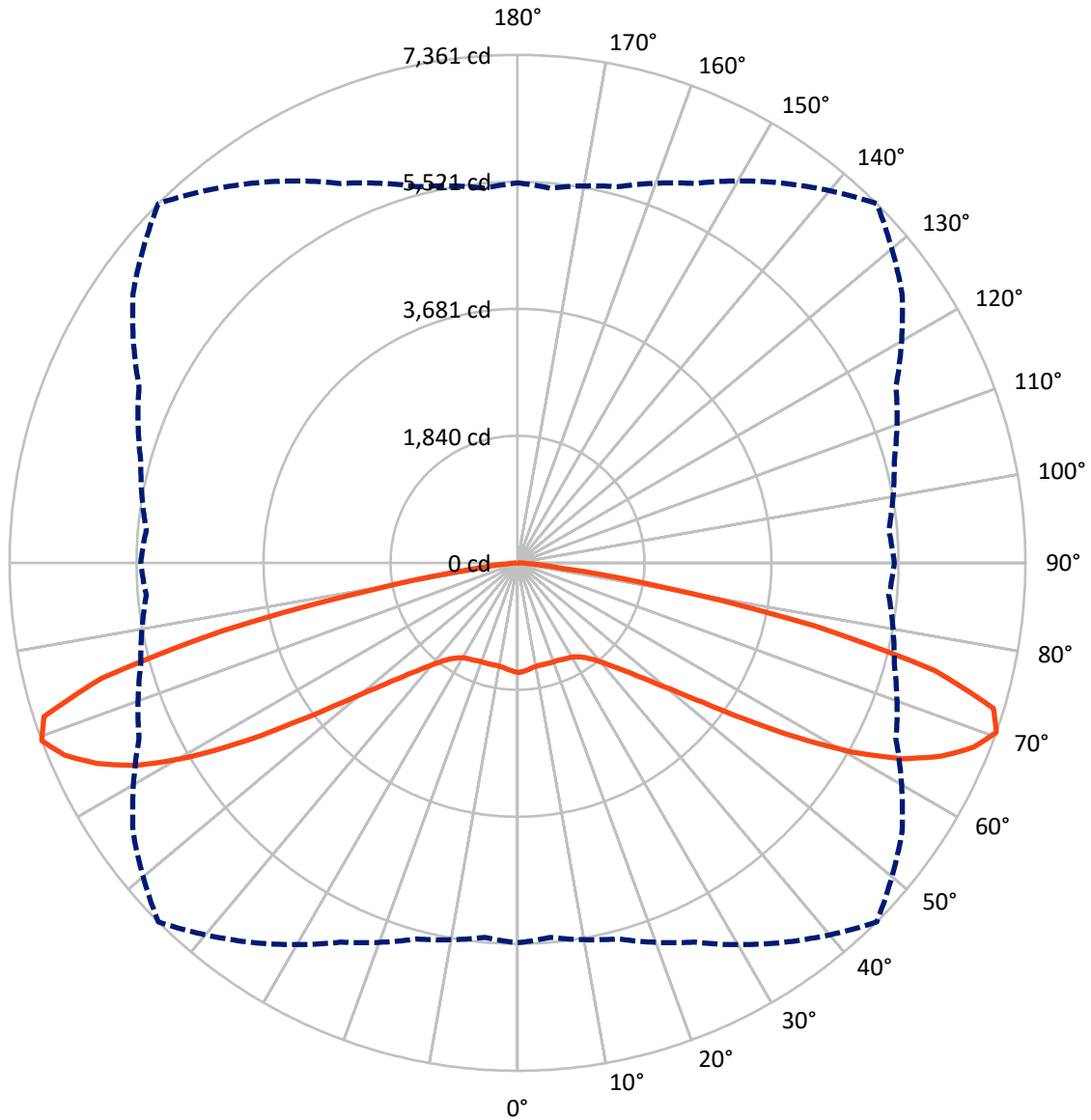
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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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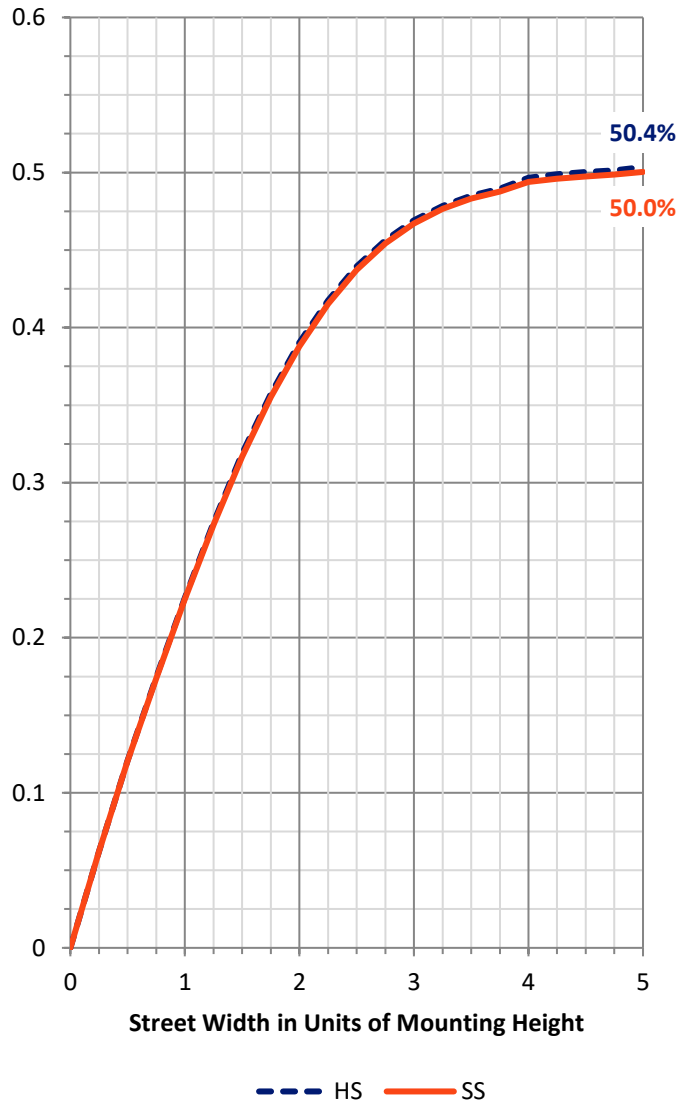
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8715.1	0.0	8715.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8715.1	0.0	8715.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	17430.1	0.0	17430.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.9	0.8
10°-20°	434.3	2.5
20°-30°	722.7	4.1
30°-40°	1093.0	6.3
40°-50°	1816.2	10.4
50°-60°	3427.2	19.7
60°-70°	5787.0	33.2
70°-80°	3802.6	21.8
80°-90°	199.2	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°	17430.1	100.0
0°-180°	17430.1	100.0

Coefficient of Utilization



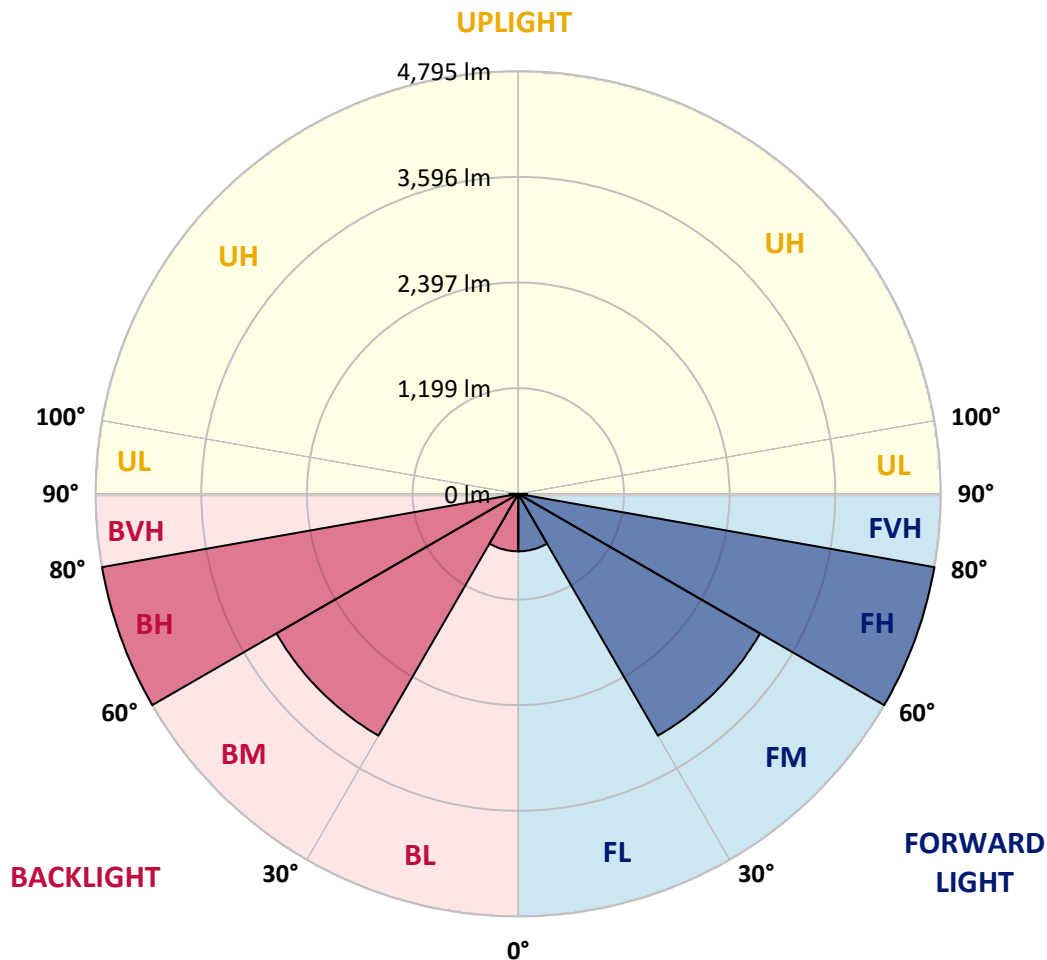
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	652.5	3.7			
FM (30°-60°)	3168.2	18.2			
FH (60°-80°)	4794.8	27.5			G2/5000
FVH (80°-90°)	99.6	0.6			G1/100
BL (0°-30°)	652.5	3.7	B2/1000		
BM (30°-60°)	3168.2	18.2	B3/5000		
BH (60°-80°)	4794.8	27.5	B4/5000		G2/5000
BVH (80°-90°)	99.6	0.6			G1/100
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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1590.0	1590.0	1590.0	1590.0	1590.0	1590.0	1590.0	1590.0	1590.0	1590.0	1590.0
2.5°	1580.0	1584.5	1582.7	1579.1	1579.1	1576.3	1579.1	1581.0	1583.6	1585.5	1584.5
5°	1559.1	1562.8	1561.9	1559.1	1560.0	1557.4	1559.1	1561.9	1563.7	1564.6	1564.6
7.5°	1541.1	1544.7	1542.8	1538.3	1538.3	1535.7	1536.5	1539.2	1542.0	1542.8	1542.8
10°	1536.5	1540.2	1534.7	1527.5	1524.8	1521.1	1522.0	1524.8	1530.2	1532.9	1532.9
12.5°	1538.3	1541.1	1535.7	1524.8	1522.0	1518.4	1518.4	1521.1	1528.4	1532.0	1532.9
15°	1543.8	1546.5	1538.3	1526.5	1523.9	1521.1	1520.2	1523.9	1532.0	1538.3	1539.2
17.5°	1553.7	1556.5	1543.8	1527.5	1523.9	1524.8	1523.9	1526.5	1539.2	1551.0	1551.0
20°	1562.8	1564.6	1547.4	1527.5	1523.9	1524.8	1523.9	1529.3	1545.6	1561.9	1562.8
22.5°	1565.5	1567.3	1551.0	1533.8	1531.0	1532.0	1531.0	1536.5	1552.0	1568.2	1568.2
25°	1566.4	1569.2	1556.5	1542.8	1547.4	1549.2	1547.4	1548.3	1560.0	1574.6	1573.7
27.5°	1580.0	1583.6	1571.8	1560.0	1562.8	1561.9	1564.6	1567.3	1576.3	1590.9	1587.2
30°	1608.1	1610.8	1600.8	1589.1	1587.2	1581.0	1589.1	1598.2	1608.1	1620.8	1618.1
32.5°	1654.4	1659.8	1647.1	1634.4	1626.3	1622.6	1628.9	1644.3	1657.9	1671.5	1666.0
35°	1731.3	1734.9	1723.1	1699.6	1685.1	1685.1	1690.5	1710.5	1732.2	1749.5	1743.1
37.5°	1840.0	1844.6	1823.7	1795.6	1773.9	1773.9	1781.1	1802.0	1834.5	1859.0	1850.0
40°	1972.3	1978.7	1952.3	1923.4	1902.5	1898.9	1907.9	1931.5	1962.4	1993.1	1983.2
42.5°	2131.8	2139.0	2104.5	2079.2	2062.9	2062.9	2067.4	2089.2	2117.2	2155.3	2152.6
45°	2335.6	2348.3	2301.1	2275.8	2260.4	2264.0	2266.8	2285.8	2311.2	2354.6	2352.8
47.5°	2578.4	2591.1	2541.3	2514.9	2512.3	2529.5	2518.6	2532.2	2545.8	2595.6	2581.2
50°	2853.8	2875.5	2841.1	2839.4	2844.8	2876.5	2851.1	2858.3	2842.9	2874.6	2855.6
52.5°	3190.8	3222.5	3216.2	3227.1	3287.8	3353.0	3295.0	3269.6	3211.6	3221.7	3188.2
55°	3599.4	3647.5	3656.5	3721.8	3859.4	3992.6	3869.4	3767.0	3643.8	3621.1	3585.9
57.5°	4064.2	4102.3	4145.7	4278.9	4536.2	4772.6	4536.2	4309.7	4115.8	4069.7	4037.0
60°	4564.3	4611.4	4653.1	4849.7	5232.0	5564.5	5224.7	4865.1	4608.7	4546.2	4491.8
62.5°	5101.5	5162.2	5191.2	5409.5	5855.3	6252.1	5861.7	5425.8	5141.4	5074.4	5019.9
65°	5617.0	5666.8	5699.4	5932.3	6358.1	6755.8	6387.1	5957.7	5665.1	5577.1	5533.7
67.5°	5857.1	5884.3	5964.0	6227.6	6677.0	7130.9	6753.1	6255.7	5928.7	5774.6	5776.5
70°	5505.6	5450.3	5642.4	6064.6	6715.1	7361.0	6802.0	6051.9	5651.4	5401.4	5461.2
72.5°	4254.5	4159.3	4492.7	5214.8	6280.2	7214.3	6323.6	5255.6	4700.1	4192.9	4318.7
75°	2314.8	2206.9	2667.2	3580.4	5008.3	6253.0	5123.3	3682.7	2969.7	2297.5	2447.0
77.5°	653.2	612.4	983.9	1732.2	3012.4	4390.4	3128.3	1770.3	1166.9	692.2	769.2
80°	200.2	193.8	262.7	521.8	1279.2	2102.8	1229.4	528.2	334.3	211.0	222.8
82.5°	118.7	108.8	130.5	190.2	326.2	660.4	317.1	198.4	159.5	106.9	115.9
85°	68.0	63.4	77.0	92.5	109.6	140.4	91.5	94.2	85.2	57.1	59.8
87.5°	28.1	25.3	29.9	29.0	25.3	32.6	24.5	29.0	34.4	22.7	20.8
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)