

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: P882722

Luminaire Tested: **NAV-SB2D-727-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882722
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-SB2D-727-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19011 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

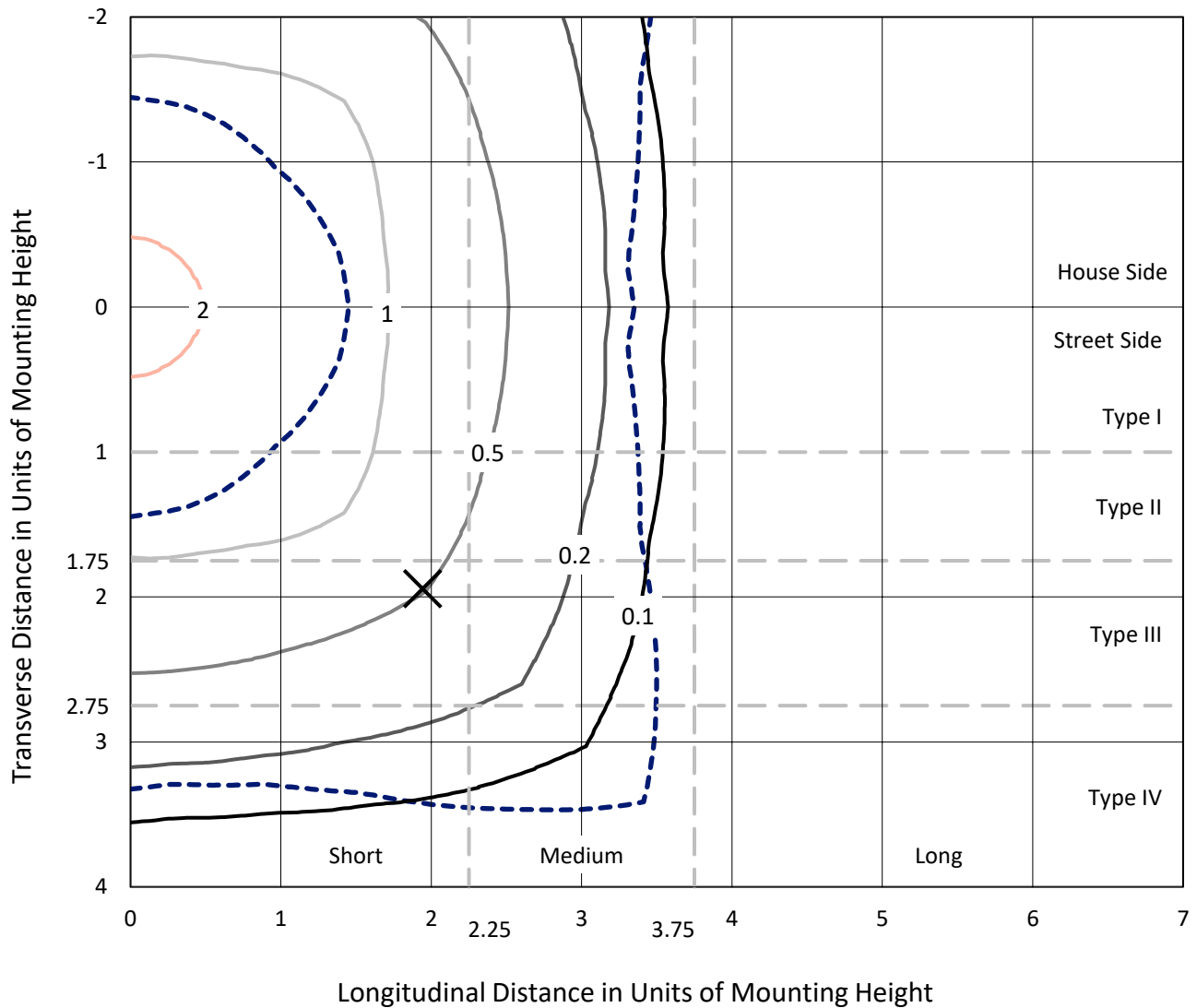
Input Watts (W): 147.6
Input Voltage (V): 120.0
Input Current (Ain): 1.234
Voltage Rise (V): NR
Power Factor: 0.999
Total Harmonic Distortion (THDi): 3.108
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P882722
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Iso-Footcandle Lines of Horizontal Illumination

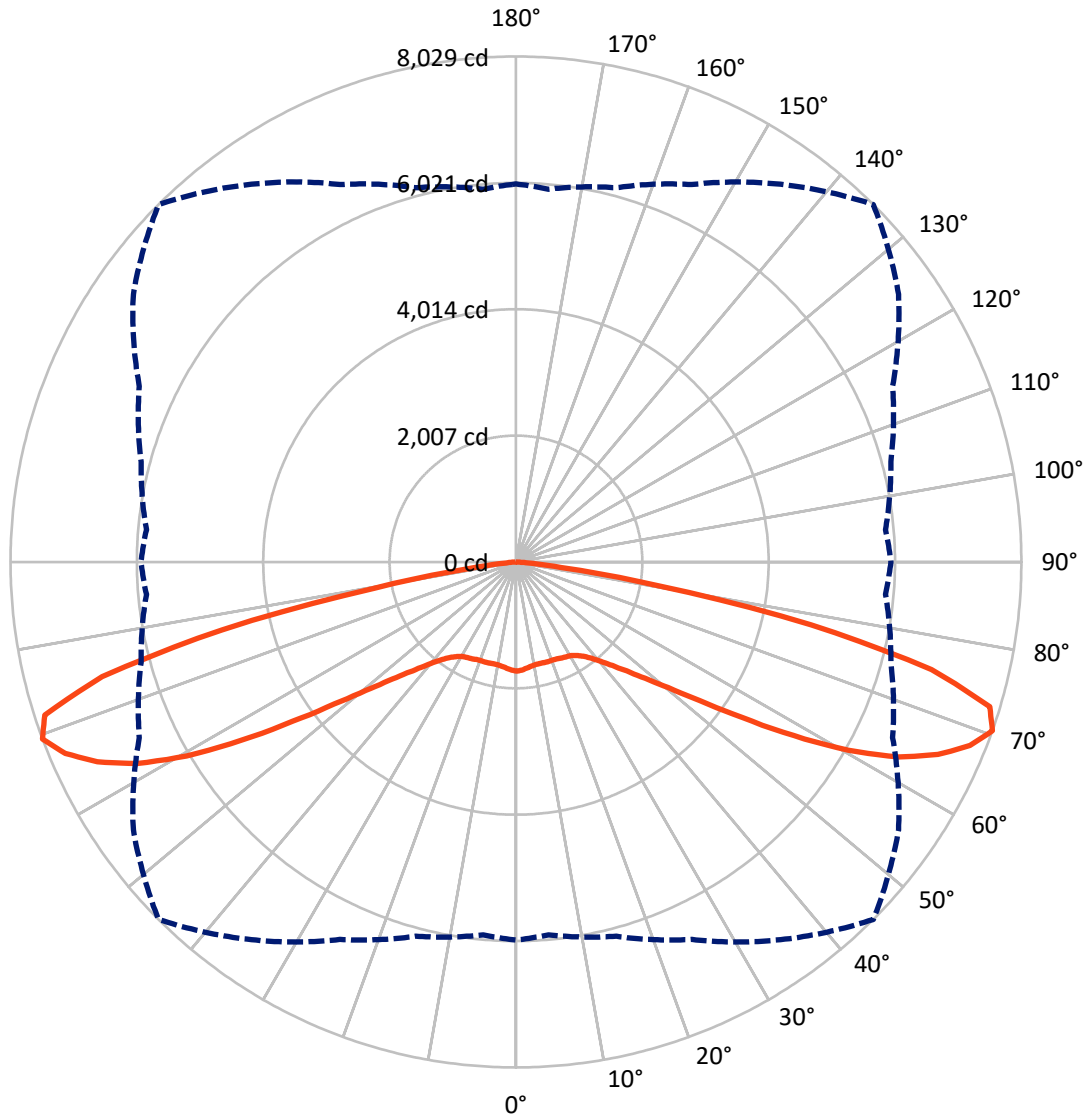
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P882722
CATALOG NUMBER: NAV-SB2D-727-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P882722

CATALOG NUMBER: NAV-SB2D-727-U-5WQ

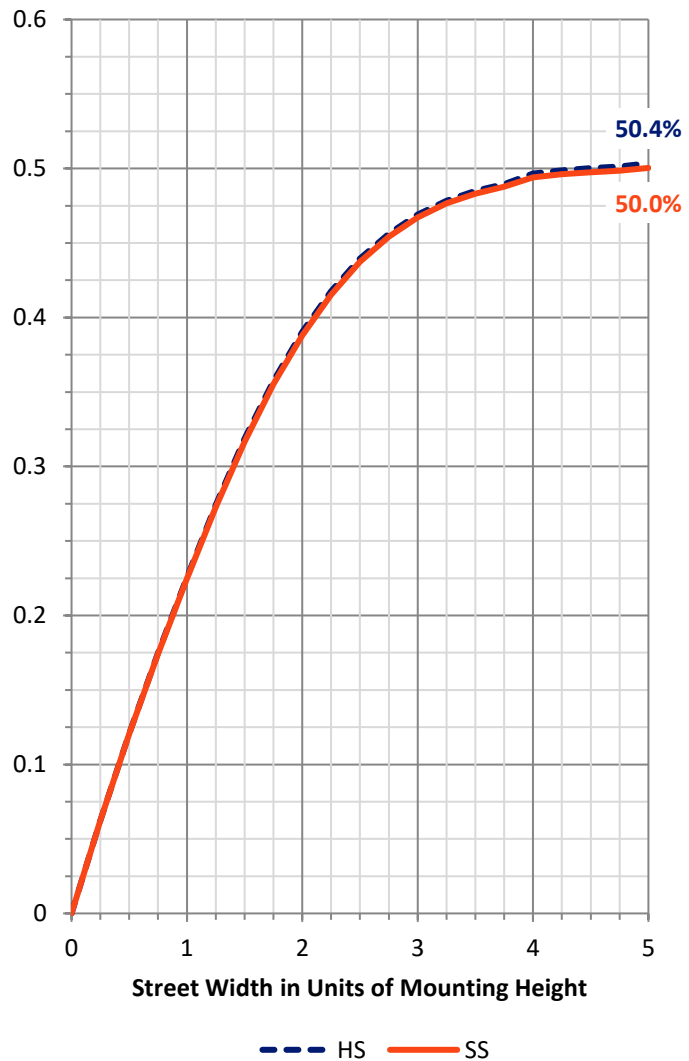
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9505.5	0.0	9505.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9505.5	0.0	9505.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19011.0	0.0	19011.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.3	0.8
10°-20°	473.7	2.5
20°-30°	788.3	4.1
30°-40°	1192.1	6.3
40°-50°	1981.0	10.4
50°-60°	3738.0	19.7
60°-70°	6311.8	33.2
70°-80°	4147.5	21.8
80°-90°	217.3	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°	19011.0	100.0
0°-180°	19011.0	100.0

Coefficient of Utilization



REPORT NUMBER: P882722

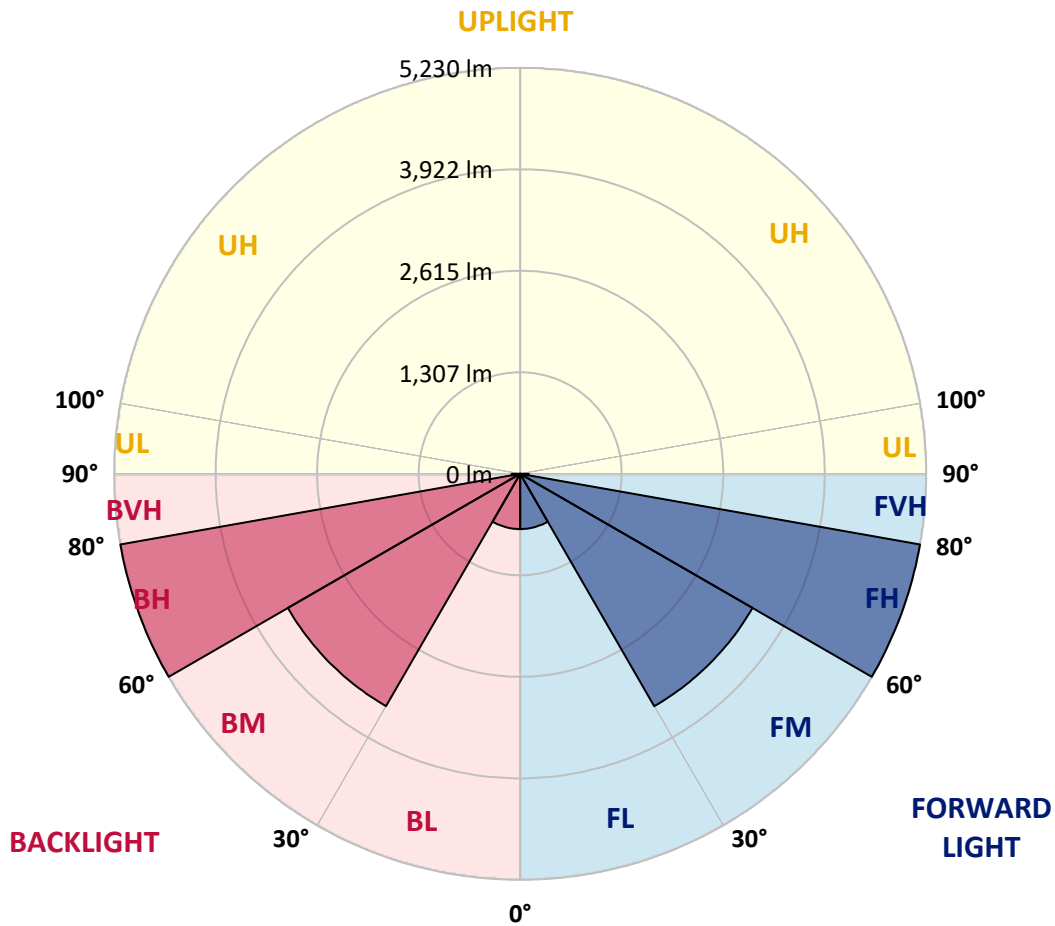
CATALOG NUMBER: NAV-SB2D-727-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	711.6	3.7			
FM (30°-60°)	3455.6	18.2			
FH (60°-80°)	5229.7	27.5			G3/7500
FVH (80°-90°)	108.6	0.6			G2/225
BL (0°-30°)	711.6	3.7	B2/1000		
BM (30°-60°)	3455.6	18.2	B3/5000		
BH (60°-80°)	5229.7	27.5	B5		G3/7500
BVH (80°-90°)	108.6	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°	1734.2	1734.2	1734.2	1734.2	1734.2	1734.2	1734.2	1734.2	1734.2	1734.2	1734.2
2.5°	1723.3	1728.3	1726.3	1722.3	1722.3	1719.4	1722.3	1724.3	1727.3	1729.2	1728.3
5°	1700.6	1704.5	1703.6	1700.6	1701.6	1698.6	1700.6	1703.6	1705.5	1706.5	1706.5
7.5°	1680.8	1684.8	1682.8	1677.9	1677.9	1674.9	1675.9	1678.9	1681.8	1682.8	1682.8
10°	1675.9	1679.8	1673.9	1666.0	1663.0	1659.1	1660.1	1663.0	1669.0	1671.9	1671.9
12.5°	1677.9	1680.8	1674.9	1663.0	1660.1	1656.1	1656.1	1659.1	1667.0	1670.9	1671.9
15°	1683.8	1686.8	1677.9	1665.0	1662.1	1659.1	1658.1	1662.1	1670.9	1677.9	1678.9
17.5°	1694.7	1697.6	1683.8	1666.0	1662.1	1663.0	1662.1	1665.0	1678.9	1691.7	1691.7
20°	1704.5	1706.5	1687.7	1666.0	1662.1	1663.0	1662.1	1668.0	1685.8	1703.6	1704.5
22.5°	1707.5	1709.5	1691.7	1672.9	1670.0	1670.9	1670.0	1675.9	1692.7	1710.5	1710.5
25°	1708.5	1711.5	1697.6	1682.8	1687.7	1689.7	1687.7	1688.7	1701.6	1717.4	1716.4
27.5°	1723.3	1727.3	1714.4	1701.6	1704.5	1703.6	1706.5	1709.5	1719.4	1735.2	1731.2
30°	1753.9	1756.9	1746.0	1733.2	1731.2	1724.3	1733.2	1743.1	1753.9	1767.8	1764.8
32.5°	1804.3	1810.3	1796.4	1782.6	1773.7	1769.8	1776.7	1793.5	1808.3	1823.1	1817.2
35°	1888.3	1892.3	1879.4	1853.8	1837.9	1837.9	1843.9	1865.6	1889.3	1908.1	1901.2
37.5°	2006.9	2011.9	1989.1	1958.5	1934.8	1934.8	1942.7	1965.4	2001.0	2027.7	2017.8
40°	2151.2	2158.1	2129.4	2097.8	2075.1	2071.1	2081.0	2106.7	2140.3	2173.9	2163.0
42.5°	2325.1	2333.0	2295.4	2267.8	2250.0	2250.0	2254.9	2278.7	2309.3	2350.8	2347.8
45°	2547.4	2561.3	2509.9	2482.2	2465.4	2469.4	2472.3	2493.1	2520.7	2568.2	2566.2
47.5°	2812.2	2826.1	2771.7	2743.1	2740.1	2758.9	2747.0	2761.9	2776.7	2831.0	2815.2
50°	3112.6	3136.4	3098.8	3096.8	3102.8	3137.3	3109.7	3117.6	3100.8	3135.4	3114.6
52.5°	3480.2	3514.8	3507.9	3519.8	3586.0	3657.1	3593.9	3566.2	3503.0	3513.8	3477.3
55°	3925.9	3978.3	3988.1	4059.3	4209.5	4354.7	4220.3	4108.7	3974.3	3949.6	3911.1
57.5°	4432.8	4474.3	4521.7	4667.0	4947.6	5205.5	4947.6	4700.6	4489.1	4438.7	4403.2
60°	4978.3	5029.6	5075.1	5289.5	5706.5	6069.2	5698.6	5306.3	5026.7	4958.5	4899.2
62.5°	5564.2	5630.4	5662.0	5900.2	6386.3	6819.2	6393.3	5918.0	5607.7	5534.6	5475.3
65°	6126.5	6180.8	6216.4	6470.3	6934.8	7368.6	6966.4	6498.0	6178.8	6083.0	6035.6
67.5°	6388.3	6418.0	6504.9	6792.5	7282.6	7777.7	7365.6	6823.1	6466.4	6298.4	6300.4
70°	6004.9	5944.7	6154.1	6614.6	7324.1	8028.6	7419.0	6600.8	6164.0	5891.3	5956.5
72.5°	4640.3	4536.6	4900.2	5687.7	6849.8	7868.6	6897.2	5732.2	5126.5	4573.1	4710.5
75°	2524.7	2407.1	2909.1	3905.1	5462.4	6820.1	5587.9	4016.8	3239.1	2505.9	2669.0
77.5°	712.4	668.0	1073.1	1889.3	3285.6	4788.5	3412.0	1930.8	1272.7	754.9	838.9
80°	218.4	211.5	286.6	569.2	1395.3	2293.5	1340.9	576.1	364.6	230.2	243.1
82.5°	129.4	118.6	142.3	207.5	355.7	720.4	345.8	216.4	173.9	116.6	126.5
85°	74.1	69.2	84.0	100.8	119.6	153.2	99.8	102.8	92.9	62.3	65.2
87.5°	30.6	27.7	32.6	31.6	27.7	35.6	26.7	31.6	37.5	24.7	22.7
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)