

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: P882732

Luminaire Tested: **NAV-SB2D-730-U-5WQ**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882732  
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-730-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

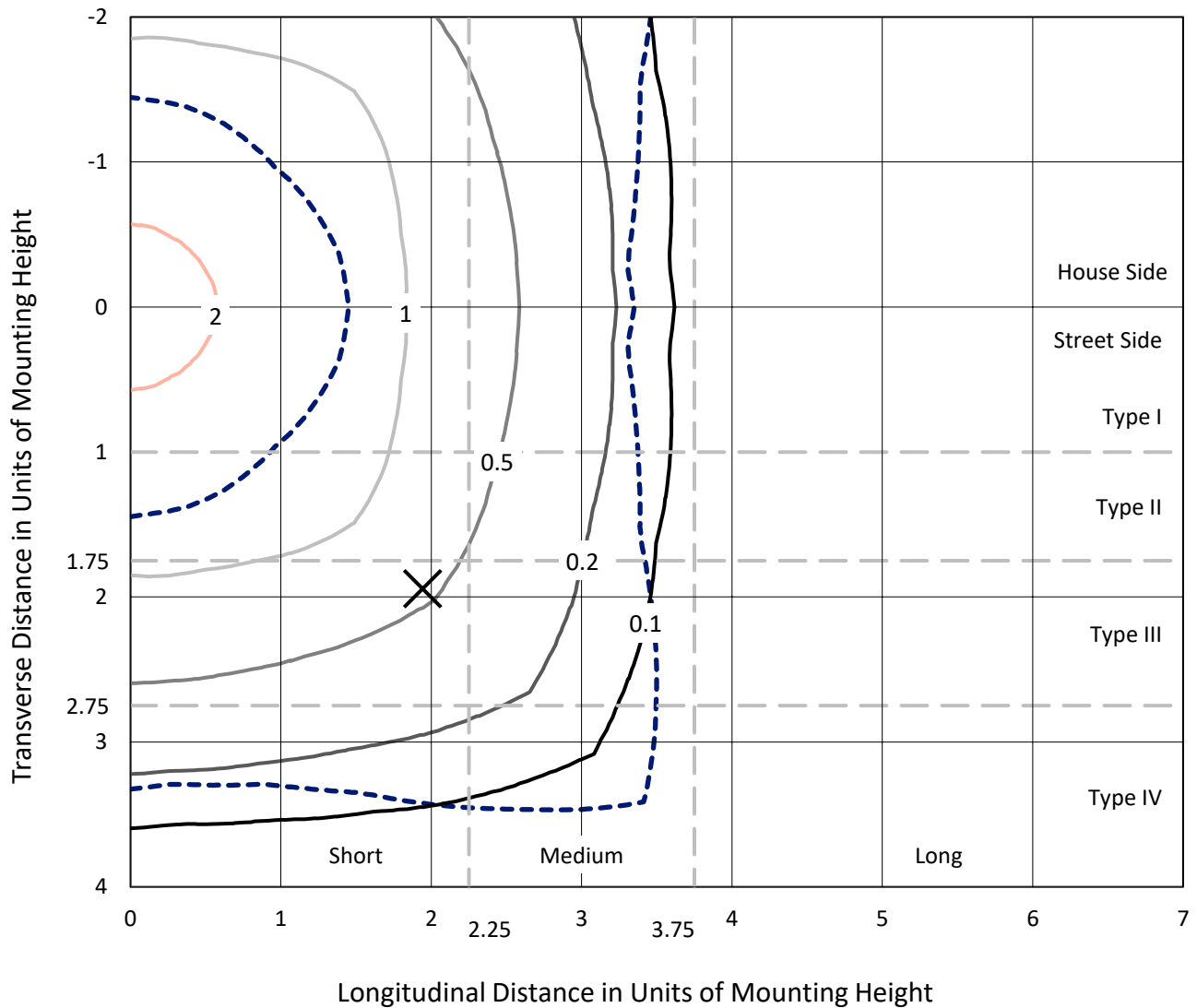
Lumens per Lamp: N/A  
Luminaire Lumens: 20650 lumens  
Efficiency: N/A  
Efficacy: 139.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 147.6  
Input Voltage (V): 120.0  
Input Current (Ain): 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: P882732  
 CATALOG NUMBER: NAV-SB2D-730-U-5WQ

### Iso-Footcandle Lines of Horizontal Illumination

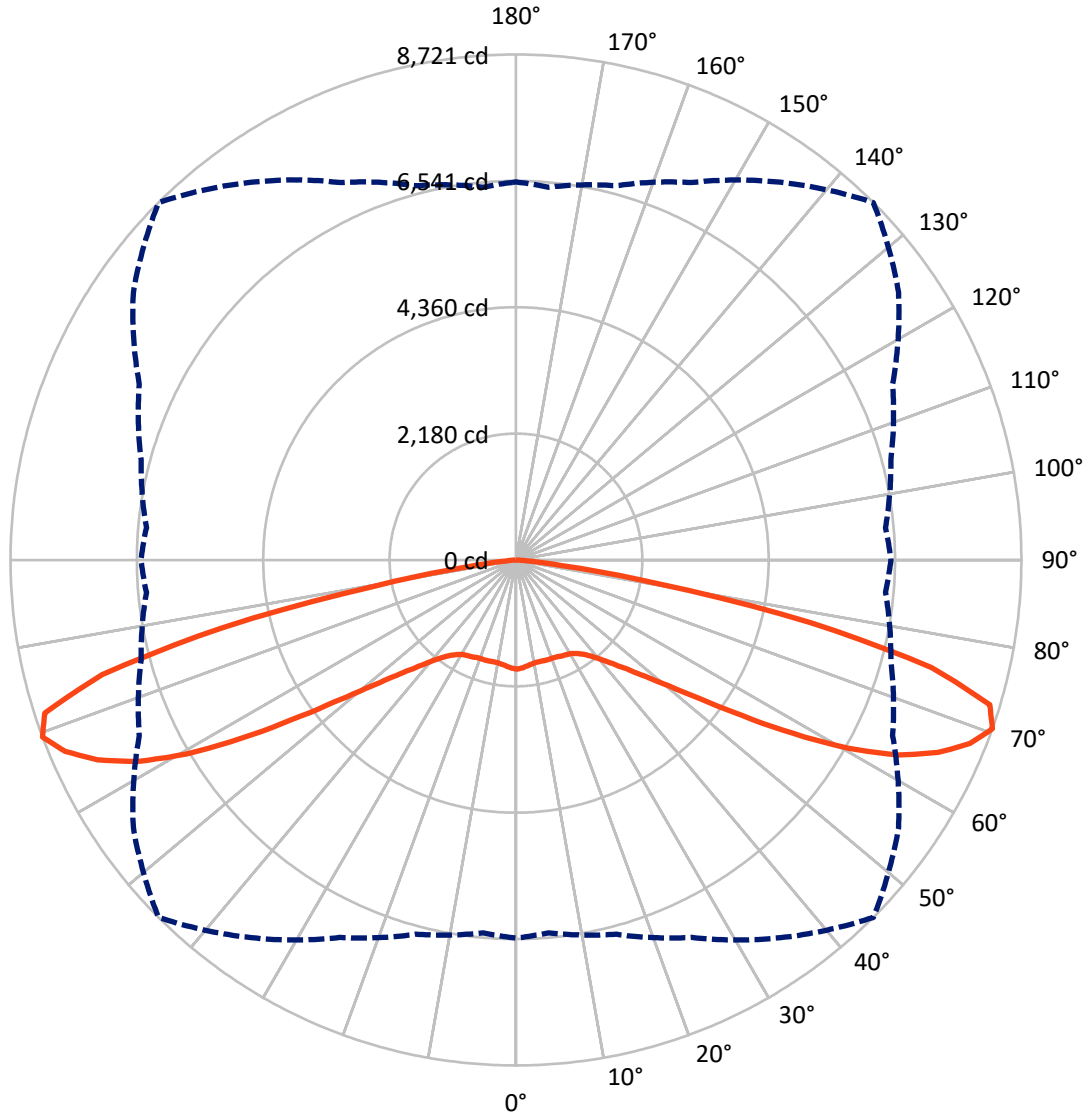
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type V - Short - N/A

REPORT NUMBER: P882732  
CATALOG NUMBER: NAV-SB2D-730-U-5WQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P882732

CATALOG NUMBER: NAV-SB2D-730-U-5WQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10325.0	0.0	10325.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10325.0	0.0	10325.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20650.0	0.0	20650.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.2	0.8
10°-20°	514.5	2.5
20°-30°	856.2	4.1
30°-40°	1294.9	6.3
40°-50°	2151.8	10.4
50°-60°	4060.3	19.7
60°-70°	6856.0	33.2
70°-80°	4505.1	21.8
80°-90°	236.0	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°	20650.0	100.0
0°-180°	20650.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P882732

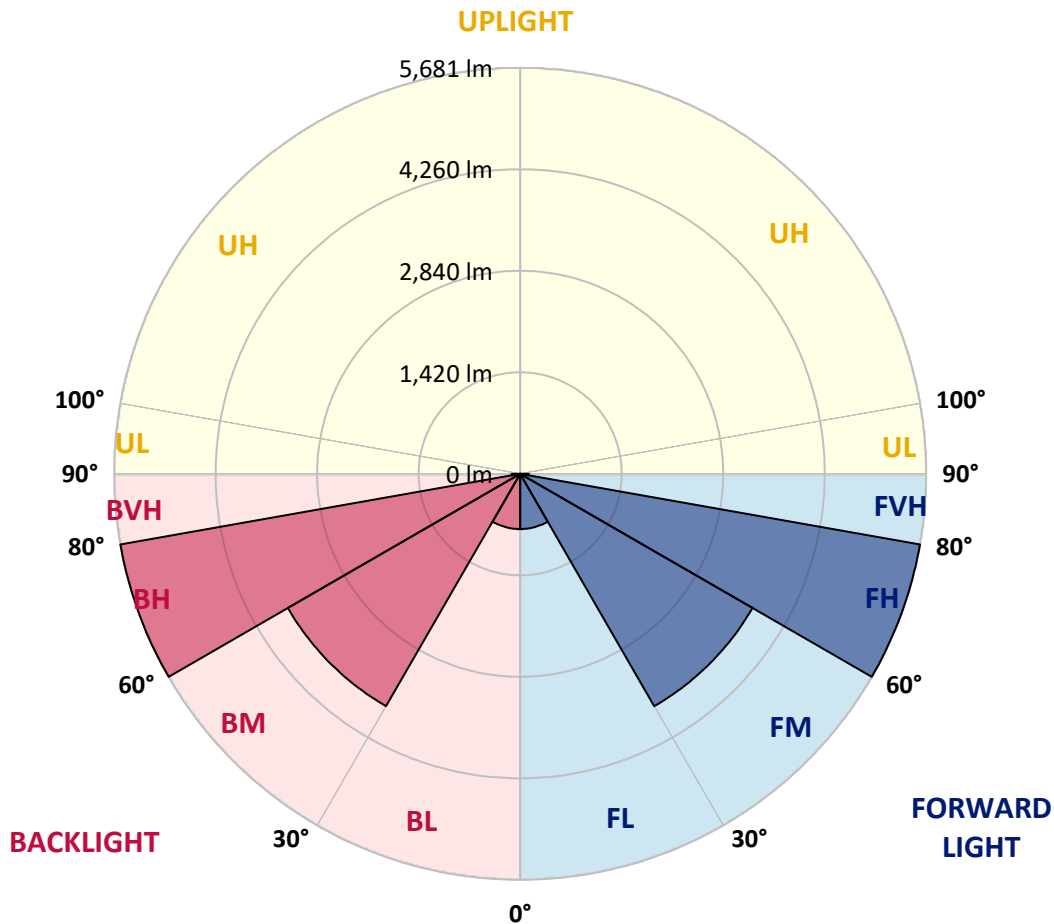
CATALOG NUMBER: NAV-SB2D-730-U-5WQ

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	773.0	3.7			
FM (30°-60°)	3753.5	18.2			
FH (60°-80°)	5680.5	27.5			G3/7500
FVH (80°-90°)	118.0	0.6			G2/225
BL (0°-30°)	773.0	3.7	B2/1000		
BM (30°-60°)	3753.5	18.2	B3/5000		
BH (60°-80°)	5680.5	27.5	B5		G3/7500
BVH (80°-90°)	118.0	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: P882732  
 CATALOG NUMBER: NAV-SB2D-730-U-5WQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1883.7	1883.7	1883.7	1883.7	1883.7	1883.7	1883.7	1883.7	1883.7	1883.7	1883.7
2.5°	1871.9	1877.3	1875.1	1870.8	1870.8	1867.6	1870.8	1873.0	1876.2	1878.3	1877.3
5°	1847.2	1851.5	1850.4	1847.2	1848.3	1845.1	1847.2	1850.4	1852.6	1853.6	1853.6
7.5°	1825.7	1830.0	1827.9	1822.5	1822.5	1819.3	1820.4	1823.6	1826.8	1827.9	1827.9
10°	1820.4	1824.7	1818.2	1809.6	1806.4	1802.1	1803.2	1806.4	1812.9	1816.1	1816.1
12.5°	1822.5	1825.7	1819.3	1806.4	1803.2	1798.9	1798.9	1802.1	1810.7	1815.0	1816.1
15°	1829.0	1832.2	1822.5	1808.6	1805.3	1802.1	1801.0	1805.3	1815.0	1822.5	1823.6
17.5°	1840.8	1844.0	1829.0	1809.6	1805.3	1806.4	1805.3	1808.6	1823.6	1837.5	1837.5
20°	1851.5	1853.6	1833.2	1809.6	1805.3	1806.4	1805.3	1811.8	1831.1	1850.4	1851.5
22.5°	1854.7	1856.9	1837.5	1817.1	1813.9	1815.0	1813.9	1820.4	1838.6	1857.9	1857.9
25°	1855.8	1859.0	1844.0	1827.9	1833.2	1835.4	1833.2	1834.3	1848.3	1865.4	1864.4
27.5°	1871.9	1876.2	1862.2	1848.3	1851.5	1850.4	1853.6	1856.9	1867.6	1884.8	1880.5
30°	1905.2	1908.4	1896.6	1882.6	1880.5	1873.0	1882.6	1893.4	1905.2	1920.2	1917.0
32.5°	1959.9	1966.3	1951.3	1936.3	1926.6	1922.3	1929.8	1948.1	1964.2	1980.3	1973.9
35°	2051.1	2055.4	2041.5	2013.6	1996.4	1996.4	2002.8	2026.4	2052.2	2072.6	2065.1
37.5°	2179.9	2185.3	2160.6	2127.3	2101.6	2101.6	2110.2	2134.9	2173.5	2202.5	2191.7
40°	2336.6	2344.2	2313.0	2278.7	2254.0	2249.7	2260.4	2288.3	2324.8	2361.3	2349.5
42.5°	2525.5	2534.1	2493.3	2463.3	2444.0	2444.0	2449.3	2475.1	2508.4	2553.5	2550.2
45°	2767.0	2782.1	2726.3	2696.2	2678.0	2682.3	2685.5	2708.0	2738.1	2789.6	2787.4
47.5°	3054.7	3069.7	3010.7	2979.6	2976.3	2996.7	2983.9	3000.0	3016.1	3075.1	3057.9
50°	3381.0	3406.8	3366.0	3363.8	3370.3	3407.8	3377.8	3386.4	3368.1	3405.7	3383.1
52.5°	3780.3	3817.8	3810.3	3823.2	3895.1	3972.4	3903.7	3873.7	3805.0	3816.8	3777.1
55°	4264.3	4321.2	4332.0	4409.2	4572.4	4730.2	4584.2	4462.9	4316.9	4290.1	4248.2
57.5°	4815.0	4860.0	4911.6	5069.3	5374.2	5654.3	5374.2	5105.8	4876.1	4821.4	4782.8
60°	5407.4	5463.3	5512.6	5745.5	6198.5	6592.4	6189.9	5763.8	5460.0	5386.0	5321.6
62.5°	6043.9	6115.8	6150.2	6408.9	6936.9	7407.1	6944.5	6428.2	6091.2	6011.7	5947.3
65°	6654.7	6713.7	6752.3	7028.2	7532.6	8003.8	7567.0	7058.2	6711.5	6607.4	6555.9
67.5°	6939.1	6971.3	7065.7	7378.1	7910.4	8448.2	8000.6	7411.3	7023.9	6841.4	6843.6
70°	6522.6	6457.2	6684.7	7184.9	7955.5	8720.8	8058.6	7169.9	6695.4	6399.2	6470.0
72.5°	5040.4	4927.7	5322.6	6178.1	7440.3	8546.9	7491.8	6226.4	5568.4	4967.4	5116.6
75°	2742.4	2614.6	3159.9	4241.8	5933.4	7408.1	6069.7	4363.1	3518.4	2722.0	2899.1
77.5°	773.9	725.6	1165.6	2052.2	3568.8	5201.4	3706.2	2097.3	1382.5	820.0	911.3
80°	237.2	229.7	311.3	618.2	1515.5	2491.2	1456.5	625.8	396.1	250.1	264.0
82.5°	140.6	128.8	154.6	225.4	386.4	782.5	375.7	235.1	188.9	126.7	137.4
85°	80.5	75.1	91.2	109.5	129.9	166.4	108.4	111.6	100.9	67.6	70.8
87.5°	33.3	30.1	35.4	34.3	30.1	38.6	29.0	34.3	40.8	26.8	24.7
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)