

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: P882385

Luminaire Tested: **NAV-SB2B-727-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882385  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2B-727-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

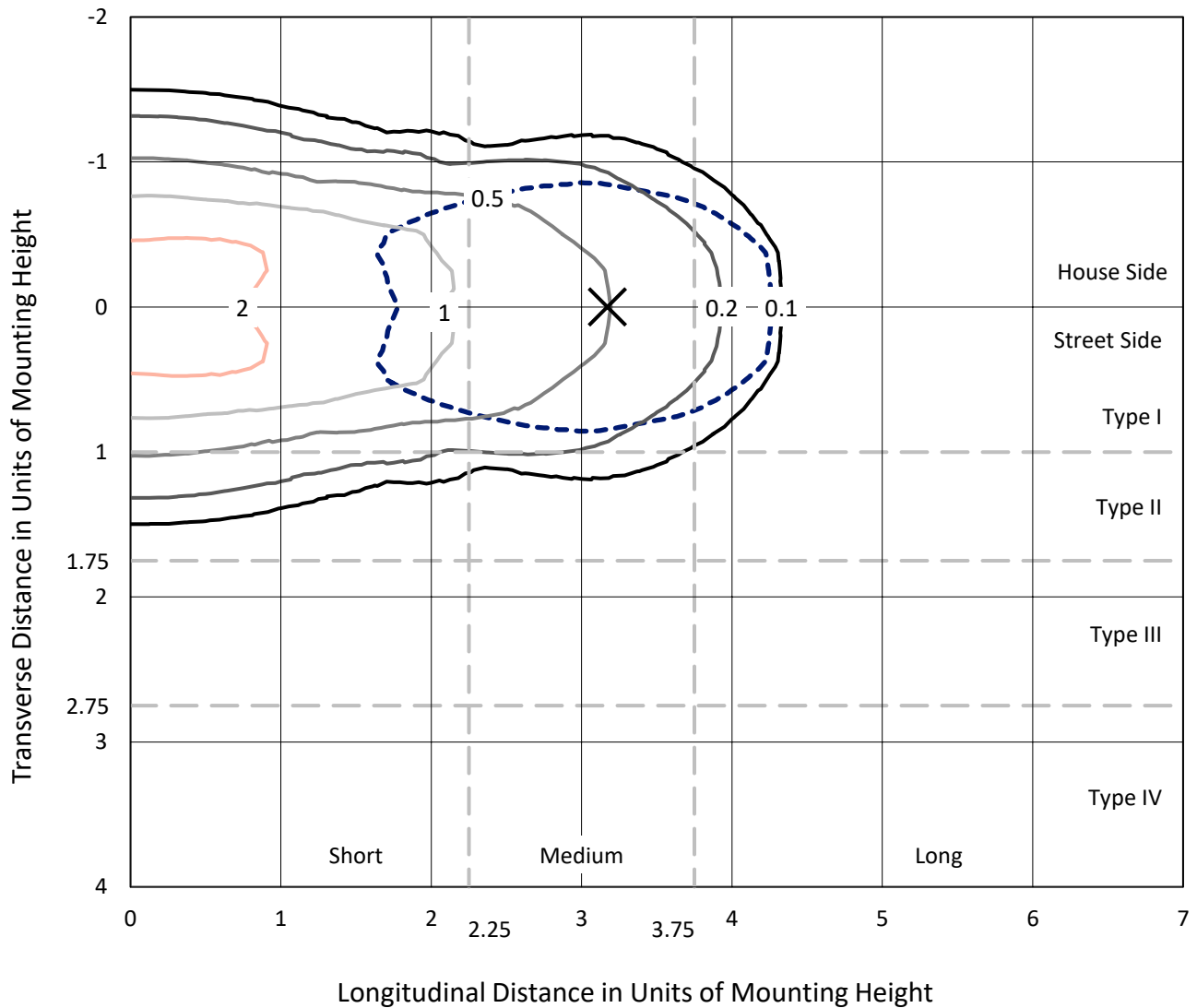
Lumens per Lamp: N/A  
Luminaire Lumens: 10289 lumens  
Efficiency: N/A  
Efficacy: 139.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 73.9  
Input Voltage (V): 120.0  
Input Current (Ain): 0.627  
Voltage Rise (V): NR  
Power Factor: 0.988  
Total Harmonic Distortion (THDi): 13.593  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P882385  
 CATALOG NUMBER: NAV-SB2B-727-U-T1

### Iso-Footcandle Lines of Horizontal Illumination

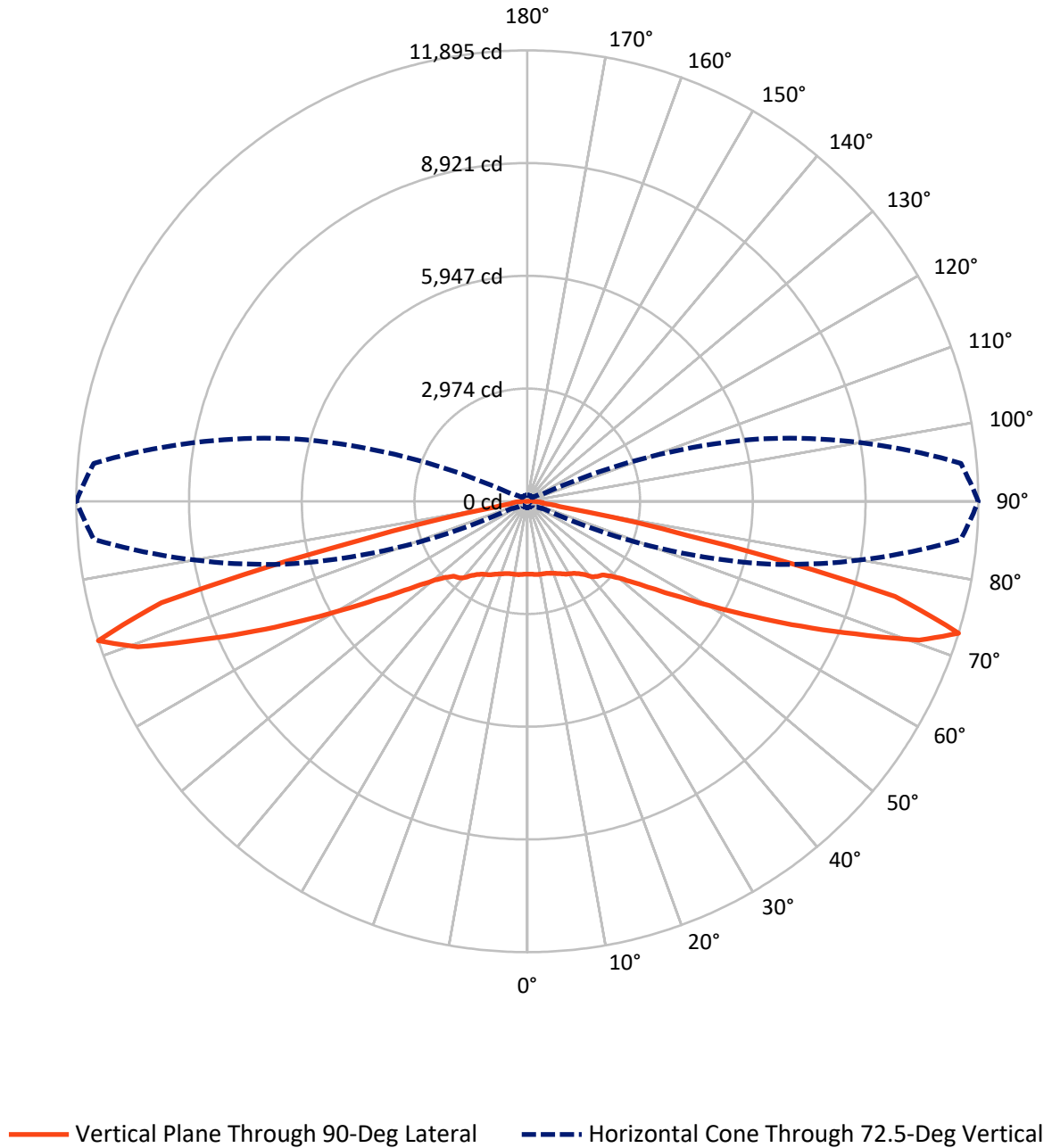
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type I - Short - N/A

REPORT NUMBER: P882385  
CATALOG NUMBER: NAV-SB2B-727-U-T1

### Luminous Intensity Polar Plot



REPORT NUMBER: P882385  
 CATALOG NUMBER: NAV-SB2B-727-U-T1

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5144.5	0.0	5144.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5144.5	0.0	5144.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10289.0	0.0	10289.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.4	1.8
10°-20°	570.0	5.5
20°-30°	950.4	9.2
30°-40°	1307.1	12.7
40°-50°	1596.4	15.5
50°-60°	1846.4	17.9
60°-70°	2201.5	21.4
70°-80°	1536.5	14.9
80°-90°	94.4	0.9
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°	10289.0	100.0
0°-180°	10289.0	100.0

**Coefficient of Utilization**



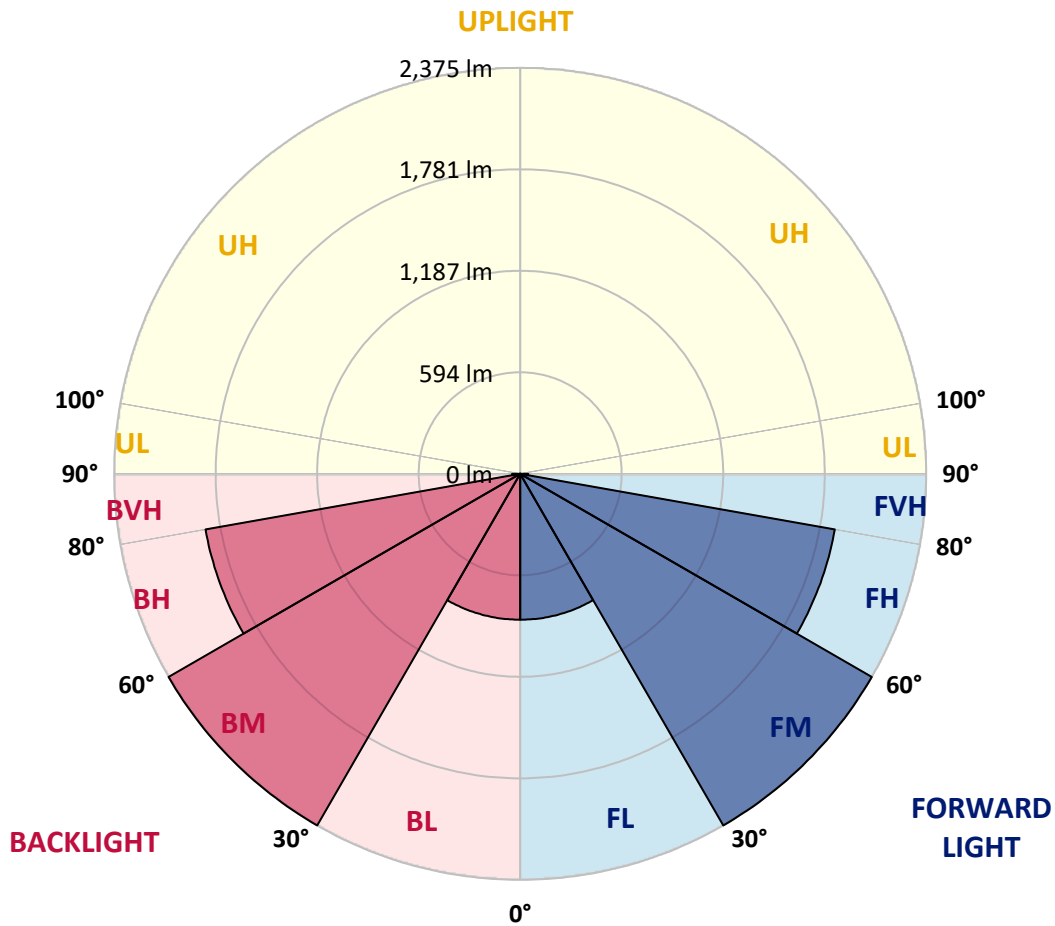
REPORT NUMBER: P882385  
 CATALOG NUMBER: NAV-SB2B-727-U-T1

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	853.4	8.3			
FM (30°-60°)	2374.9	23.1			
FH (60°-80°)	1869.0	18.2			G2/5000
FVH (80°-90°)	47.2	0.5			G1/100
BL (0°-30°)	853.4	8.3	B2/1000		
BM (30°-60°)	2374.9	23.1	B2/2500		
BH (60°-80°)	1869.0	18.2	B3/2500		G3/2500
BVH (80°-90°)	47.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type I Short



REPORT NUMBER: P882385  
 CATALOG NUMBER: NAV-SB2B-727-U-T1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1922.6	1922.6	1922.6	1922.6	1922.6	1922.6	1922.6	1922.6	1922.6	1922.6	1922.6
2.5°	1924.2	1926.4	1926.4	1924.8	1928.6	1925.3	1925.3	1923.7	1925.3	1923.7	1923.7
5°	1934.1	1936.8	1937.9	1937.4	1942.3	1939.6	1939.6	1937.4	1937.9	1936.3	1936.3
7.5°	1952.7	1956.5	1958.7	1961.4	1968.5	1965.3	1963.1	1956.5	1953.8	1949.4	1949.4
10°	1958.7	1963.1	1970.2	1984.4	2000.8	2001.3	1994.8	1978.4	1965.8	1956.0	1954.3
12.5°	1940.1	1946.1	1960.9	1989.9	2026.5	2041.3	2030.9	2003.5	1978.9	1961.4	1958.7
15°	1916.6	1923.2	1945.6	1989.3	2043.5	2077.9	2076.8	2040.7	2001.3	1974.0	1969.6
17.5°	1880.0	1886.5	1918.8	1980.0	2056.6	2113.4	2128.8	2091.6	2036.3	1999.7	1993.7
20°	1813.8	1819.8	1864.6	1950.5	2061.0	2151.2	2191.1	2158.3	2089.4	2039.6	2030.3
22.5°	1727.9	1737.2	1789.7	1899.6	2050.6	2190.5	2262.2	2239.8	2151.2	2082.3	2069.7
25°	1636.1	1645.9	1707.2	1837.3	2023.8	2219.0	2346.4	2332.2	2221.2	2135.3	2117.8
27.5°	1556.8	1567.2	1633.9	1775.5	1982.2	2229.9	2429.5	2436.6	2305.9	2193.8	2175.2
30°	1494.5	1504.3	1575.4	1725.8	1928.6	2219.0	2502.2	2551.4	2392.3	2244.7	2217.9
32.5°	1426.1	1438.7	1513.6	1665.1	1865.2	2192.7	2565.7	2675.6	2492.4	2299.4	2265.5
35°	1339.7	1351.2	1429.9	1581.9	1782.1	2150.6	2618.7	2813.4	2635.7	2382.5	2344.8
37.5°	1234.7	1245.6	1323.8	1478.0	1699.5	2091.6	2659.2	2968.7	2806.3	2502.2	2451.9
40°	1129.2	1139.6	1212.8	1362.1	1600.5	2016.1	2673.4	3120.7	3002.0	2666.8	2613.2
42.5°	1032.4	1041.7	1108.9	1247.8	1489.5	1919.9	2654.8	3253.0	3177.6	2781.7	2712.8
45°	943.3	951.5	1011.1	1140.7	1374.2	1802.9	2599.0	3395.2	3386.4	2863.7	2770.7
47.5°	841.6	849.8	911.5	1036.8	1258.8	1665.6	2504.4	3535.2	3676.8	3049.6	2942.4
50°	717.4	724.5	788.0	917.0	1139.0	1519.6	2373.2	3645.1	4043.2	3331.2	3196.7
52.5°	570.3	578.0	639.8	768.8	996.8	1362.7	2200.4	3716.7	4466.4	3742.4	3576.7
55°	424.3	429.8	483.4	599.3	820.8	1183.9	1983.9	3736.9	4946.5	4304.5	4097.3
57.5°	307.9	311.1	345.6	432.0	622.3	960.2	1720.8	3684.5	5517.9	5025.2	4764.4
60°	249.3	250.4	260.8	299.1	432.5	707.6	1403.1	3504.0	6138.0	5954.3	5625.7
62.5°	226.4	226.4	229.1	239.5	292.5	467.0	1018.7	3130.0	6802.9	7128.3	6688.1
65°	210.5	210.5	211.6	216.5	230.8	297.5	643.1	2520.8	7363.4	8503.5	7946.9
67.5°	196.3	196.9	196.3	197.9	206.1	219.8	372.9	1741.1	7665.3	9928.6	9327.6
70°	181.5	182.6	179.9	179.9	186.5	187.0	233.5	954.7	7414.8	11122.8	10964.8
72.5°	164.0	165.7	161.3	160.2	165.1	163.0	175.5	458.2	6366.0	11479.3	11894.9
75°	148.7	150.9	141.1	138.3	138.3	136.7	142.7	235.1	4131.7	9364.2	10016.0
77.5°	135.1	139.4	123.6	114.8	112.6	107.7	116.5	143.8	1807.2	4396.4	4305.1
80°	111.6	117.6	101.7	91.3	87.5	82.0	91.9	100.6	537.5	1020.9	977.7
82.5°	83.1	85.9	72.2	65.1	61.8	58.0	68.9	70.0	175.0	361.4	408.5
85°	53.0	54.1	44.3	38.3	36.6	35.0	43.7	38.3	66.7	265.8	386.1
87.5°	18.6	21.3	17.0	15.3	16.4	13.7	20.2	11.5	18.6	187.6	232.4
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)