

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: P882065

Luminaire Tested: **NAV-SB1D-735-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882065  
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-SB1D-735-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

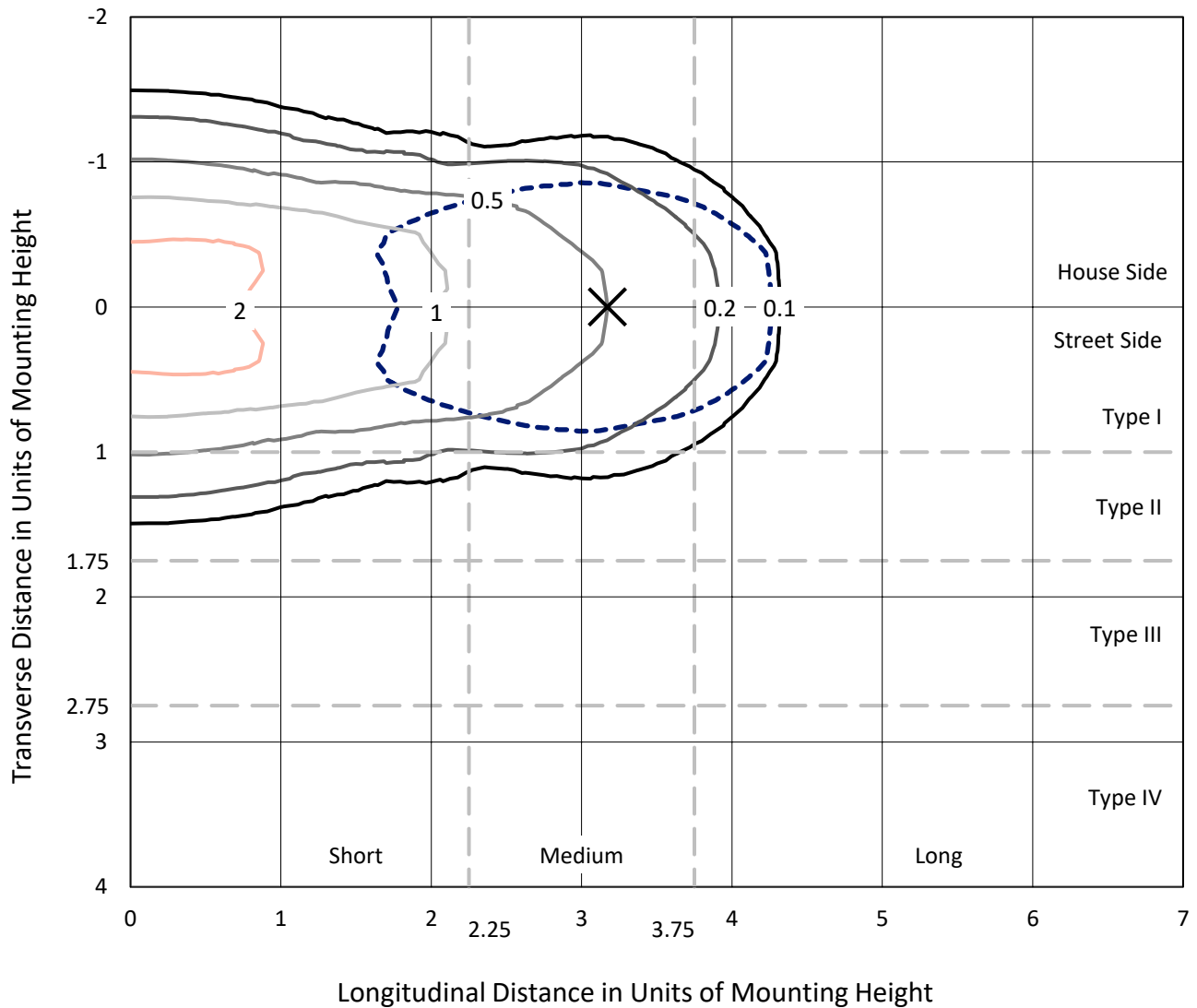
Lumens per Lamp: N/A  
Luminaire Lumens: 10075 lumens  
Efficiency: N/A  
Efficacy: 126.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 79.6  
Input Voltage (V): 120.0  
Input Current (Ain): 0.638  
Voltage Rise (V): NR  
Power Factor: 0.997  
Total Harmonic Distortion (THDi): 6.673  
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

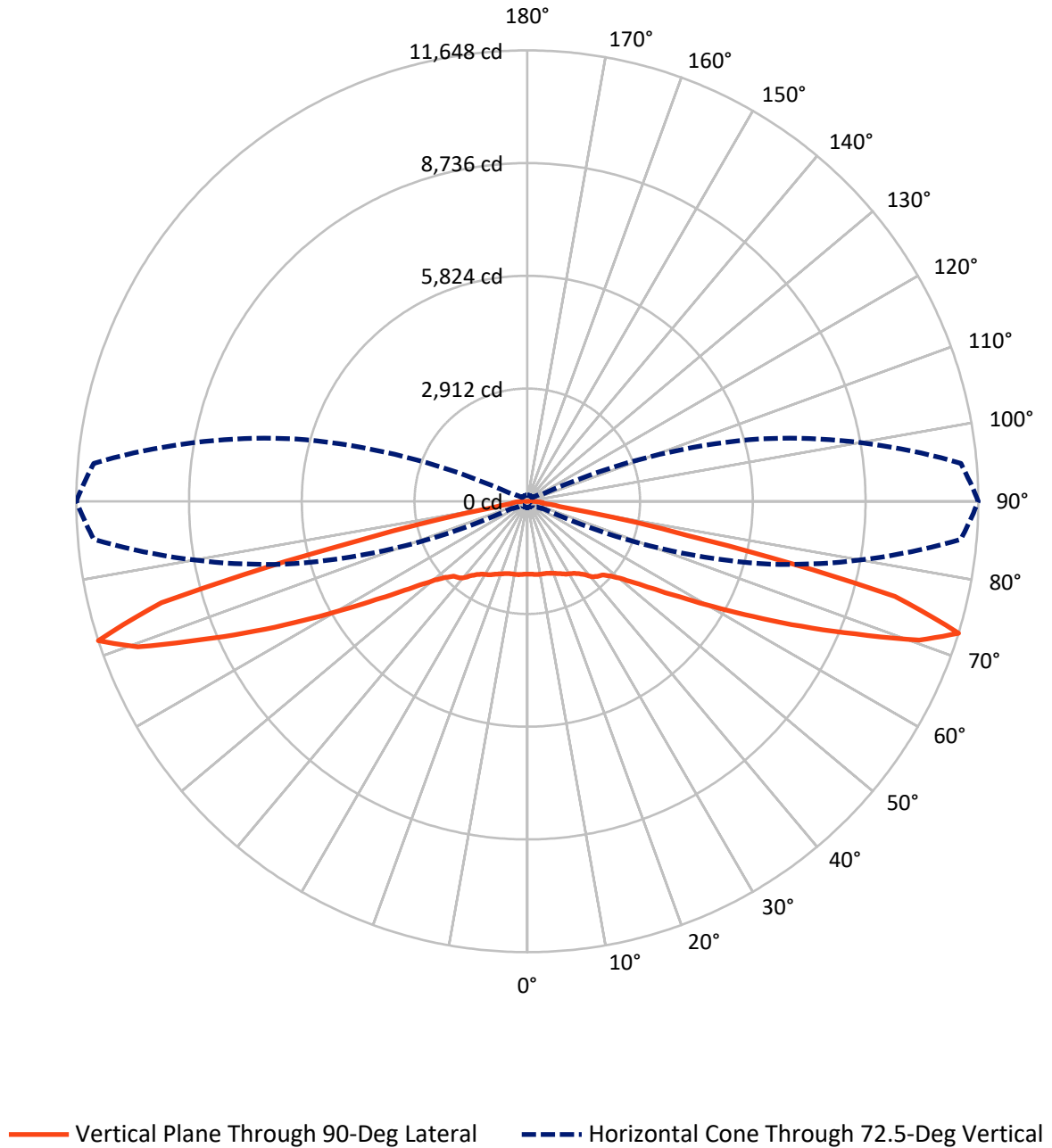
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



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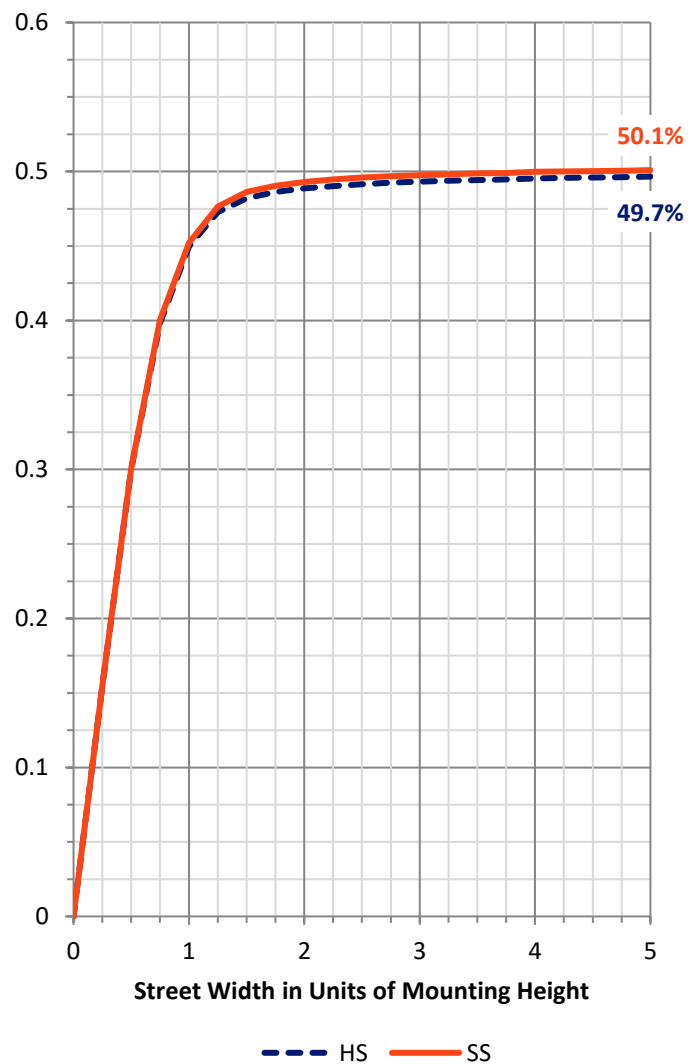
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5037.5	0.0	5037.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5037.5	0.0	5037.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10075.0	0.0	10075.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.5	1.8
10°-20°	558.1	5.5
20°-30°	930.7	9.2
30°-40°	1279.9	12.7
40°-50°	1563.2	15.5
50°-60°	1807.9	17.9
60°-70°	2155.7	21.4
70°-80°	1504.5	14.9
80°-90°	92.4	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°	10075.0	100.0
0°-180°	10075.0	100.0

**Coefficient of Utilization**



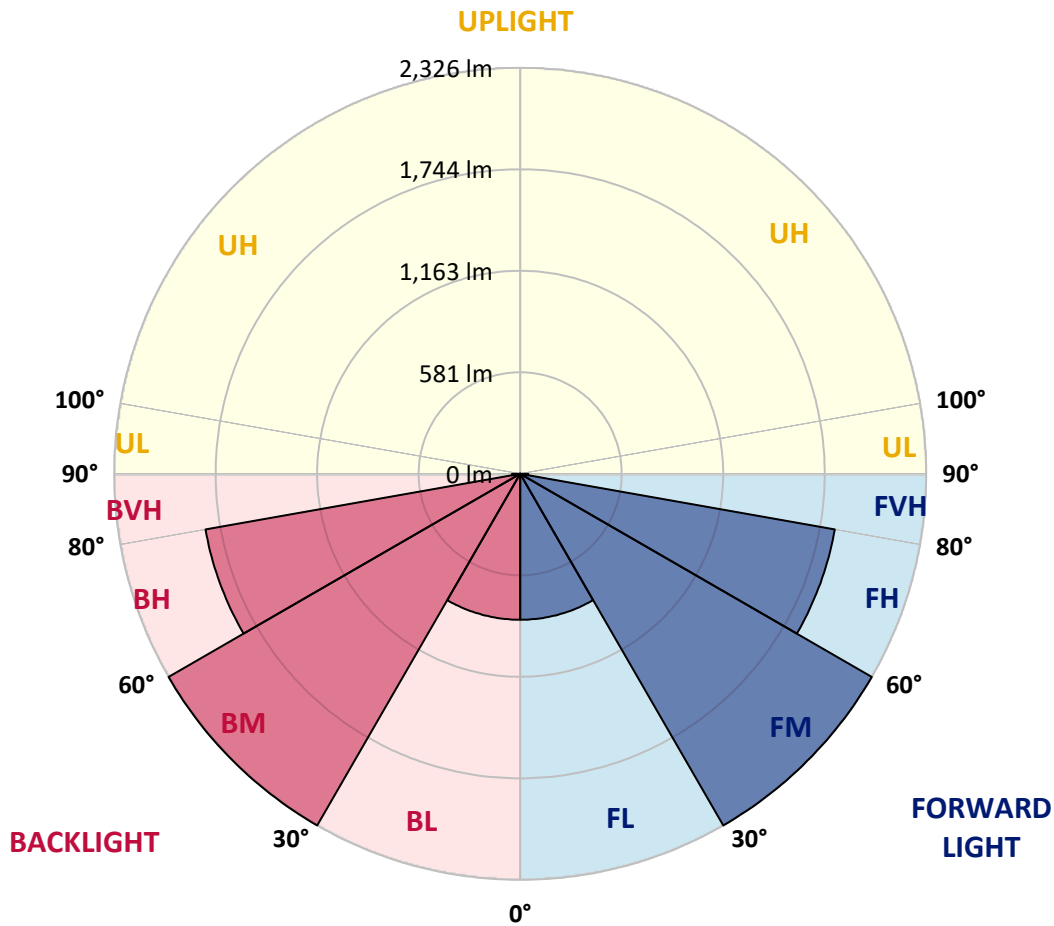
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	835.7	8.3			
FM (30°-60°)	2325.5	23.1			
FH (60°-80°)	1830.1	18.2			G2/5000
FVH (80°-90°)	46.2	0.5			G1/100
BL (0°-30°)	835.7	8.3	B2/1000		
BM (30°-60°)	2325.5	23.1	B2/2500		
BH (60°-80°)	1830.1	18.2	B3/2500		G3/2500
BVH (80°-90°)	46.2	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1882.6	1882.6	1882.6	1882.6	1882.6	1882.6	1882.6	1882.6	1882.6	1882.6	1882.6
2.5°	1884.2	1886.4	1886.4	1884.8	1888.5	1885.3	1885.3	1883.7	1885.3	1883.7	1883.7
5°	1893.9	1896.5	1897.6	1897.1	1901.9	1899.2	1899.2	1897.1	1897.6	1896.0	1896.0
7.5°	1912.1	1915.8	1918.0	1920.6	1927.6	1924.4	1922.2	1915.8	1913.1	1908.9	1908.9
10°	1918.0	1922.2	1929.2	1943.1	1959.2	1959.7	1953.3	1937.2	1924.9	1915.3	1913.7
12.5°	1899.8	1905.6	1920.1	1948.5	1984.4	1998.8	1988.6	1961.9	1937.8	1920.6	1918.0
15°	1876.7	1883.2	1905.1	1947.9	2001.0	2034.7	2033.6	1998.3	1959.7	1933.0	1928.7
17.5°	1840.9	1847.3	1878.9	1938.8	2013.8	2069.5	2084.5	2048.1	1994.0	1958.1	1952.2
20°	1776.1	1782.0	1825.9	1909.9	2018.1	2106.4	2145.5	2113.4	2045.9	1997.2	1988.1
22.5°	1692.0	1701.1	1752.5	1860.1	2007.9	2145.0	2215.1	2193.2	2106.4	2039.0	2026.7
25°	1602.0	1611.7	1671.7	1799.1	1981.7	2172.8	2297.6	2283.7	2175.0	2090.9	2073.8
27.5°	1524.4	1534.6	1599.9	1738.6	1941.0	2183.5	2379.0	2385.9	2258.0	2148.2	2130.0
30°	1463.4	1473.0	1542.6	1689.9	1888.5	2172.8	2450.2	2498.4	2342.6	2198.0	2171.8
32.5°	1396.4	1408.8	1482.1	1630.4	1826.4	2147.1	2512.3	2619.9	2440.6	2251.5	2218.3
35°	1311.8	1323.1	1400.2	1549.0	1745.0	2105.9	2564.2	2754.9	2580.8	2332.9	2296.0
37.5°	1209.0	1219.7	1296.3	1447.3	1664.2	2048.1	2603.9	2906.9	2747.9	2450.2	2400.9
40°	1105.7	1115.9	1187.6	1333.8	1567.2	1974.2	2617.8	3055.8	2939.6	2611.4	2558.9
42.5°	1010.9	1020.0	1085.9	1221.9	1458.5	1879.9	2599.6	3185.4	3111.5	2723.8	2656.3
45°	923.6	931.7	990.0	1116.9	1345.6	1765.4	2545.0	3324.6	3316.0	2804.1	2713.1
47.5°	824.0	832.1	892.6	1015.2	1232.6	1631.0	2452.3	3461.6	3600.3	2986.2	2881.2
50°	702.5	709.5	771.6	897.9	1115.3	1488.0	2323.8	3569.3	3959.1	3261.9	3130.2
52.5°	558.5	566.0	626.5	752.8	976.1	1334.3	2154.6	3639.4	4373.5	3664.6	3502.3
55°	415.5	420.9	473.3	586.8	803.7	1159.2	1942.6	3659.2	4843.6	4215.0	4012.1
57.5°	301.5	304.7	338.4	423.0	609.3	940.2	1685.0	3607.8	5403.2	4920.7	4665.3
60°	244.2	245.2	255.4	292.9	423.5	692.9	1373.9	3431.1	6010.4	5830.4	5508.6
62.5°	221.7	221.7	224.4	234.5	286.5	457.3	997.5	3064.9	6661.5	6980.0	6549.0
65°	206.1	206.1	207.2	212.0	226.0	291.3	629.7	2468.4	7210.3	8326.7	7781.6
67.5°	192.2	192.8	192.2	193.8	201.9	215.2	365.2	1704.9	7505.8	9722.1	9133.6
70°	177.8	178.8	176.2	176.2	182.6	183.1	228.6	934.9	7260.6	10891.5	10736.7
72.5°	160.6	162.2	158.0	156.9	161.7	159.6	171.9	448.7	6233.6	11240.6	11647.5
75°	145.6	147.8	138.1	135.5	135.5	133.9	139.8	230.2	4045.8	9169.5	9807.7
77.5°	132.3	136.5	121.0	112.4	110.3	105.5	114.0	140.8	1769.6	4305.0	4215.5
80°	109.2	115.1	99.6	89.4	85.7	80.3	90.0	98.5	526.3	999.7	957.4
82.5°	81.4	84.1	70.7	63.7	60.5	56.8	67.5	68.5	171.3	353.9	400.0
85°	51.9	53.0	43.4	37.5	35.9	34.3	42.8	37.5	65.3	260.2	378.0
87.5°	18.2	20.9	16.6	15.0	16.1	13.4	19.8	11.2	18.2	183.7	227.6
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)