

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: P882405

Luminaire Tested: **NAV-SB2B-735-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882405  
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-735-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

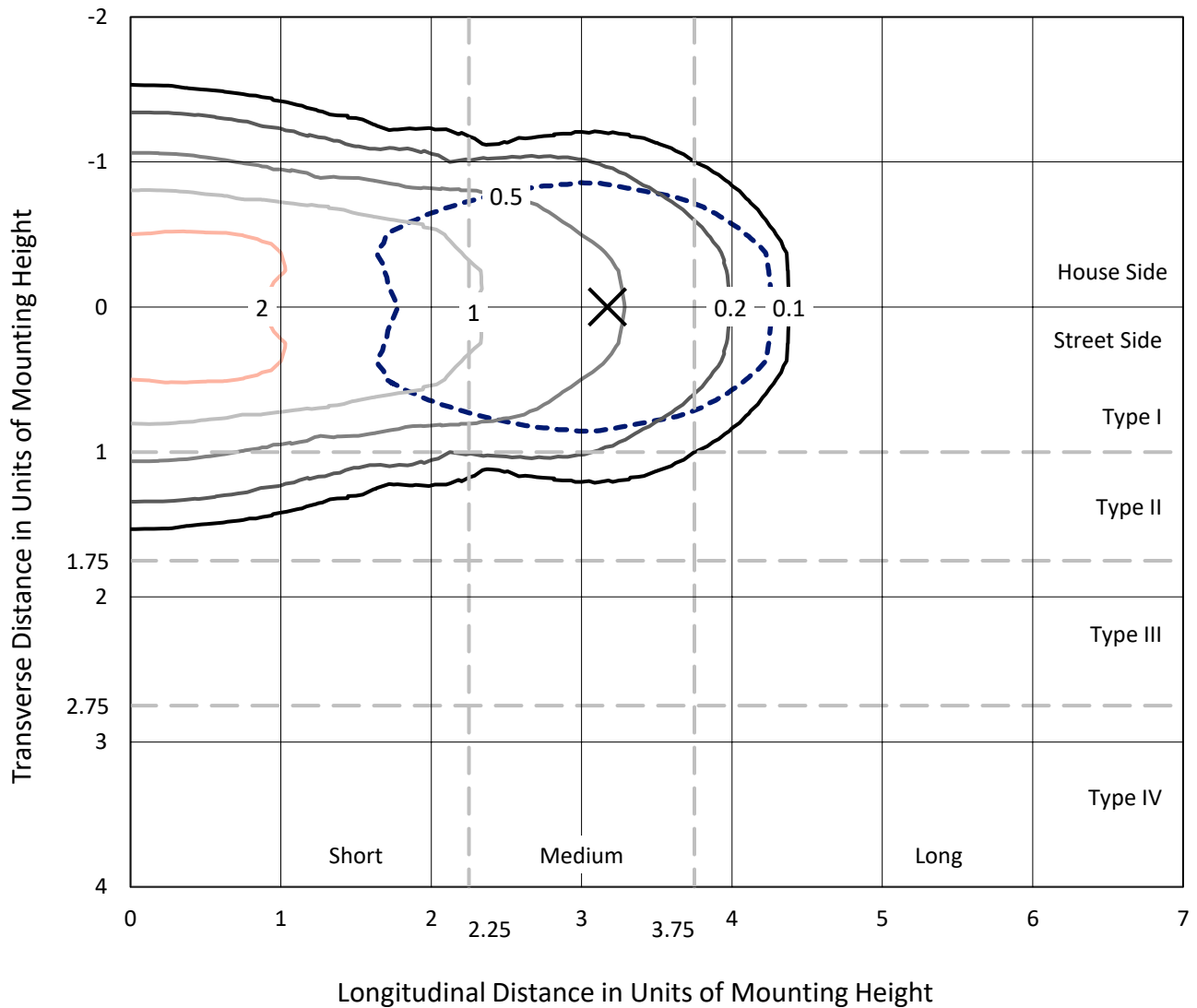
Lumens per Lamp: N/A  
Luminaire Lumens: 11353 lumens  
Efficiency: N/A  
Efficacy: 153.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 73.9  
Input Voltage (V): 120.0  
Input Current (Ain): 0.627  
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: P882405  
 CATALOG NUMBER: NAV-SB2B-735-U-T1

### Iso-Footcandle Lines of Horizontal Illumination

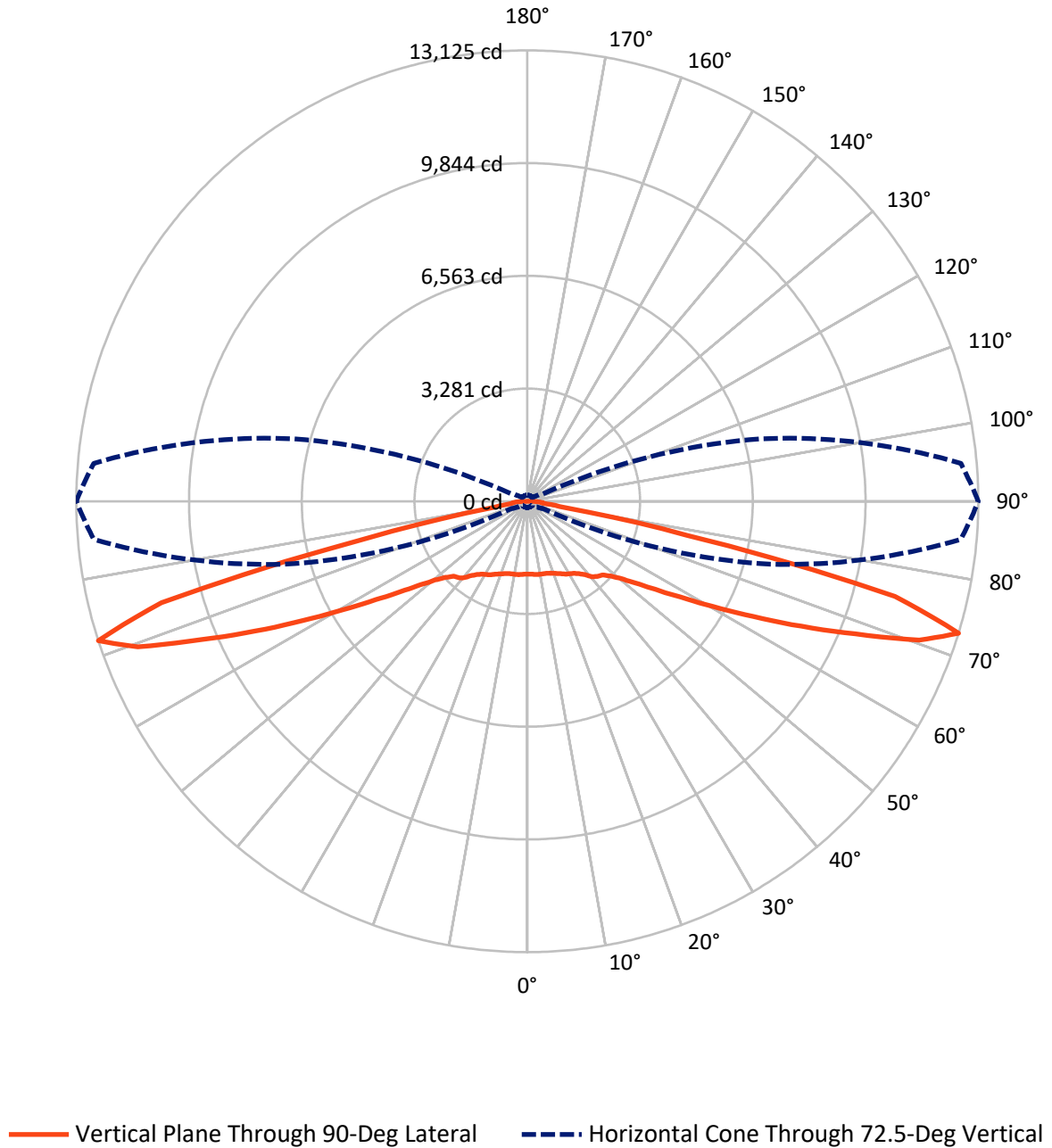
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type I - Short - N/A

REPORT NUMBER: P882405  
CATALOG NUMBER: NAV-SB2B-735-U-T1

### Luminous Intensity Polar Plot



REPORT NUMBER: P882405  
 CATALOG NUMBER: NAV-SB2B-735-U-T1

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5676.5	0.0	5676.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5676.5	0.0	5676.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11353.0	0.0	11353.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.7	1.8
10°-20°	628.9	5.5
20°-30°	1048.7	9.2
30°-40°	1442.3	12.7
40°-50°	1761.4	15.5
50°-60°	2037.3	17.9
60°-70°	2429.1	21.4
70°-80°	1695.4	14.9
80°-90°	104.1	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°	11353.0	100.0
0°-180°	11353.0	100.0

**Coefficient of Utilization**



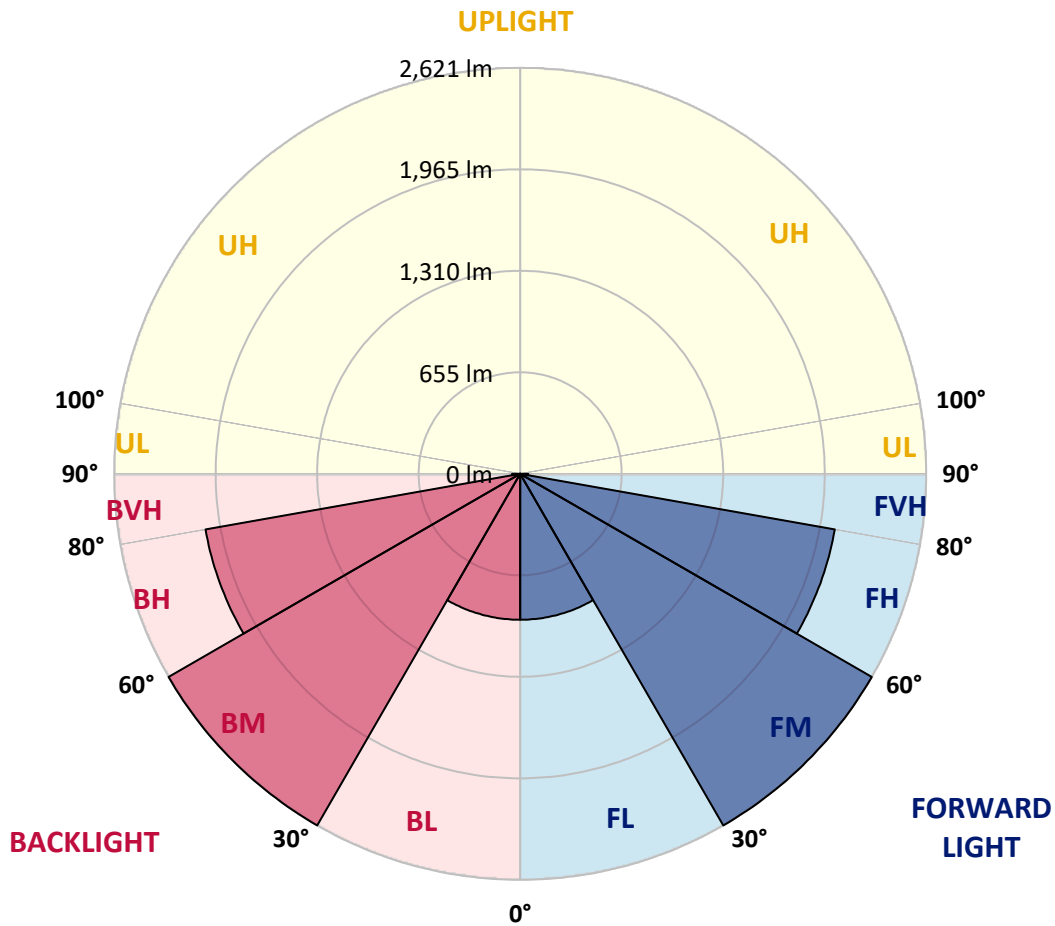
REPORT NUMBER: P882405  
 CATALOG NUMBER: NAV-SB2B-735-U-T1

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	941.7	8.3			
FM (30°-60°)	2620.5	23.1			
FH (60°-80°)	2062.3	18.2			G2/5000
FVH (80°-90°)	52.1	0.5			G1/100
BL (0°-30°)	941.7	8.3	B2/1000		
BM (30°-60°)	2620.5	23.1	B3/5000		
BH (60°-80°)	2062.3	18.2	B3/2500		G3/2500
BVH (80°-90°)	52.1	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: P882405  
 CATALOG NUMBER: NAV-SB2B-735-U-T1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2121.4	2121.4	2121.4	2121.4	2121.4	2121.4	2121.4	2121.4	2121.4	2121.4	2121.4
2.5°	2123.2	2125.7	2125.7	2123.8	2128.1	2124.4	2124.4	2122.6	2124.4	2122.6	2122.6
5°	2134.1	2137.1	2138.3	2137.7	2143.1	2140.1	2140.1	2137.7	2138.3	2136.5	2136.5
7.5°	2154.6	2158.8	2161.2	2164.3	2172.1	2168.5	2166.1	2158.8	2155.8	2151.0	2151.0
10°	2161.2	2166.1	2173.9	2189.6	2207.7	2208.3	2201.1	2183.0	2169.1	2158.2	2156.4
12.5°	2140.7	2147.4	2163.7	2195.6	2236.1	2252.4	2240.9	2210.7	2183.6	2164.3	2161.2
15°	2114.8	2122.0	2146.8	2195.0	2254.8	2292.8	2291.6	2251.8	2208.3	2178.1	2173.3
17.5°	2074.4	2081.6	2117.2	2184.8	2269.3	2332.0	2348.9	2307.9	2246.9	2206.5	2199.9
20°	2001.4	2008.0	2057.5	2152.2	2274.1	2373.6	2417.7	2381.5	2305.5	2250.5	2240.3
22.5°	1906.6	1916.9	1974.8	2096.1	2262.6	2417.1	2496.1	2471.4	2373.6	2297.6	2283.7
25°	1805.3	1816.1	1883.7	2027.3	2233.1	2448.5	2589.0	2573.3	2450.9	2356.1	2336.8
27.5°	1717.8	1729.2	1802.9	1959.1	2187.2	2460.5	2680.7	2688.6	2544.4	2420.7	2400.2
30°	1649.0	1659.9	1738.3	1904.2	2128.1	2448.5	2761.0	2815.3	2639.7	2476.8	2447.2
32.5°	1573.6	1587.5	1670.1	1837.2	2058.1	2419.5	2831.0	2952.3	2750.1	2537.1	2499.7
35°	1478.2	1490.9	1577.8	1745.5	1966.4	2373.0	2889.5	3104.3	2908.2	2628.9	2587.2
37.5°	1362.4	1374.5	1460.7	1630.9	1875.3	2307.9	2934.2	3275.7	3096.5	2761.0	2705.5
40°	1245.9	1257.4	1338.3	1503.0	1766.0	2224.6	2949.8	3443.4	3312.5	2942.6	2883.5
42.5°	1139.2	1149.4	1223.6	1376.9	1643.6	2118.4	2929.3	3589.4	3506.1	3069.3	2993.3
45°	1040.8	1049.9	1115.6	1258.6	1516.3	1989.3	2867.8	3746.3	3736.6	3159.8	3057.2
47.5°	928.6	937.6	1005.8	1144.0	1388.9	1837.8	2763.4	3900.7	4057.0	3365.0	3246.7
50°	791.6	799.5	869.4	1011.8	1256.8	1676.7	2618.6	4022.0	4461.3	3675.7	3527.3
52.5°	629.3	637.8	705.9	848.3	1099.9	1503.6	2427.9	4101.1	4928.3	4129.4	3946.6
55°	468.2	474.2	533.4	661.3	905.6	1306.3	2189.0	4123.4	5458.0	4749.7	4521.0
57.5°	339.7	343.3	381.3	476.7	686.6	1059.5	1898.8	4065.5	6088.5	5544.9	5257.1
60°	275.1	276.3	287.8	330.0	477.3	780.8	1548.2	3866.4	6772.8	6570.0	6207.4
62.5°	249.8	249.8	252.8	264.3	322.8	515.3	1124.1	3453.7	7506.5	7865.5	7379.7
65°	232.3	232.3	233.5	238.9	254.6	328.2	709.6	2781.5	8124.9	9382.9	8768.7
67.5°	216.6	217.2	216.6	218.4	227.5	242.6	411.5	1921.1	8458.0	10955.3	10292.2
70°	200.3	201.5	198.5	198.5	205.7	206.4	257.6	1053.5	8181.6	12273.0	12098.7
72.5°	181.0	182.8	178.0	176.8	182.2	179.8	193.7	505.6	7024.4	12666.4	13125.0
75°	164.1	166.5	155.7	152.7	152.7	150.8	157.5	259.4	4559.0	10332.6	11051.8
77.5°	149.0	153.9	136.4	126.7	124.3	118.9	128.5	158.7	1994.1	4851.0	4750.3
80°	123.1	129.7	112.2	100.8	96.5	90.5	101.4	111.0	593.1	1126.5	1078.8
82.5°	91.7	94.7	79.6	71.8	68.2	64.0	76.0	77.2	193.1	398.8	450.7
85°	58.5	59.7	48.9	42.2	40.4	38.6	48.3	42.2	73.6	293.2	426.0
87.5°	20.5	23.5	18.7	16.9	18.1	15.1	22.3	12.7	20.5	207.0	256.4
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)