

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: P881732

Luminaire Tested: **NAV-SB1B-740-U-5WQ**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P881732  
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-SB1B-740-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

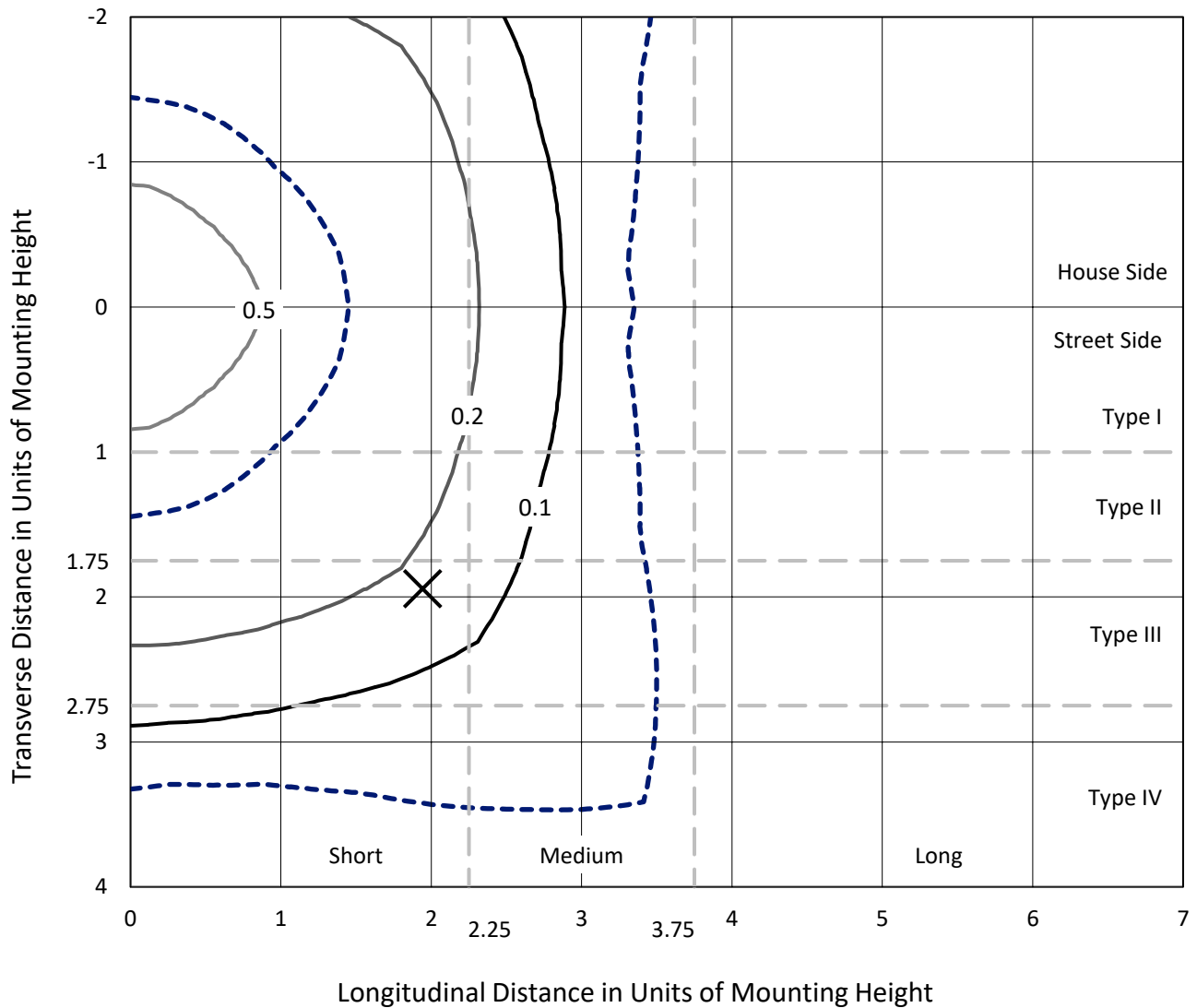
Lumens per Lamp: N/A  
Luminaire Lumens: 6146 lumens  
Efficiency: N/A  
Efficacy: 154.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): 120.0  
Input Current (Ain): 0.33  
Voltage Rise (V): NR  
Power Factor: 0.996  
Total Harmonic Distortion (THDi): 5.305  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P881732  
 CATALOG NUMBER: NAV-SB1B-740-U-5WQ

### Iso-Footcandle Lines of Horizontal Illumination

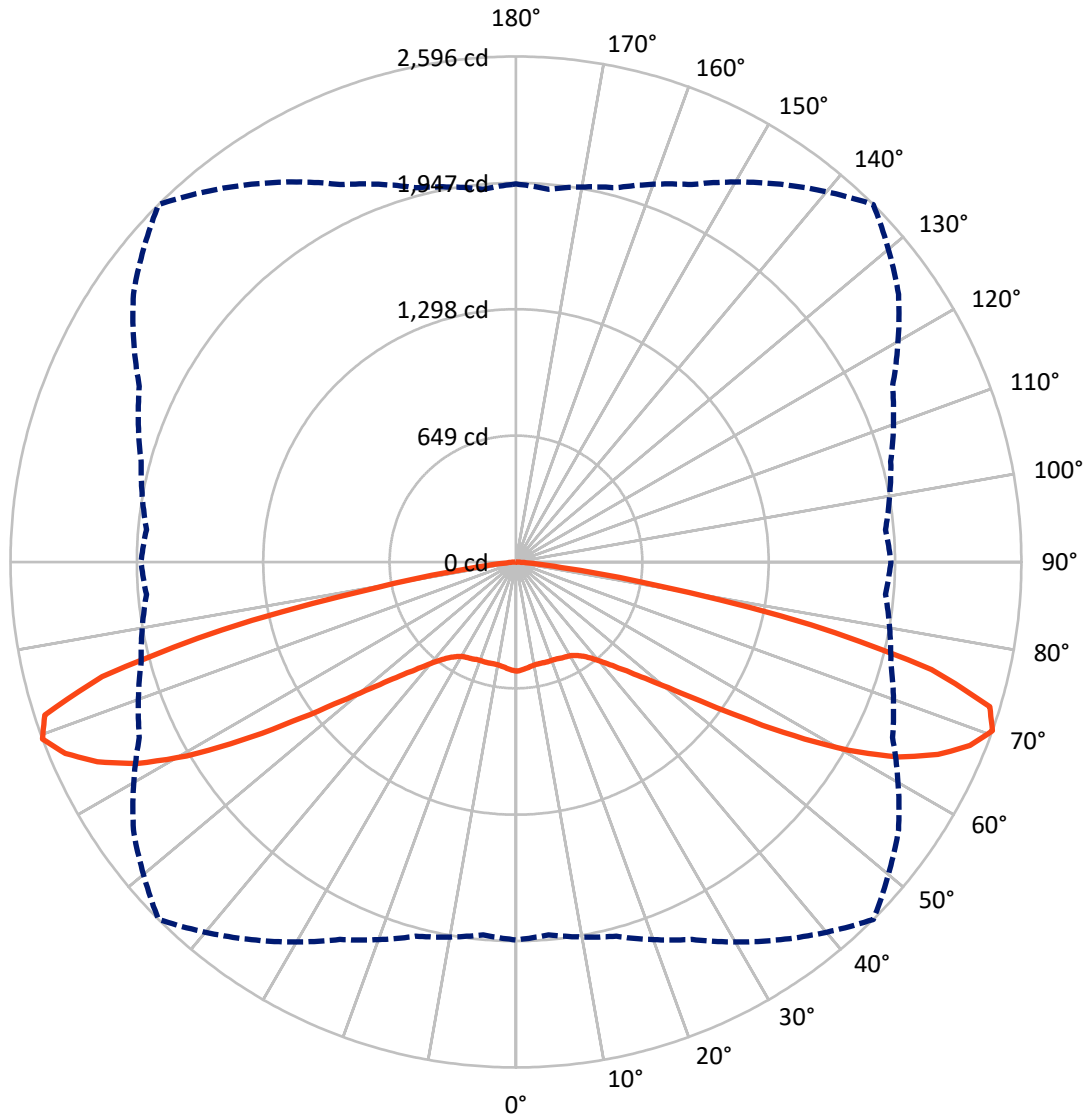
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc  
 Type V - Short - N/A

REPORT NUMBER: P881732  
CATALOG NUMBER: NAV-SB1B-740-U-5WQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P881732  
 CATALOG NUMBER: NAV-SB1B-740-U-5WQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3073.0	0.0	3073.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3073.0	0.0	3073.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6146.0	0.0	6146.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.2	0.8
10°-20°	153.1	2.5
20°-30°	254.8	4.1
30°-40°	385.4	6.3
40°-50°	640.4	10.4
50°-60°	1208.5	19.7
60°-70°	2040.5	33.2
70°-80°	1340.8	21.8
80°-90°	70.2	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°	6146.0	100.0
0°-180°	6146.0	100.0

**Coefficient of Utilization**

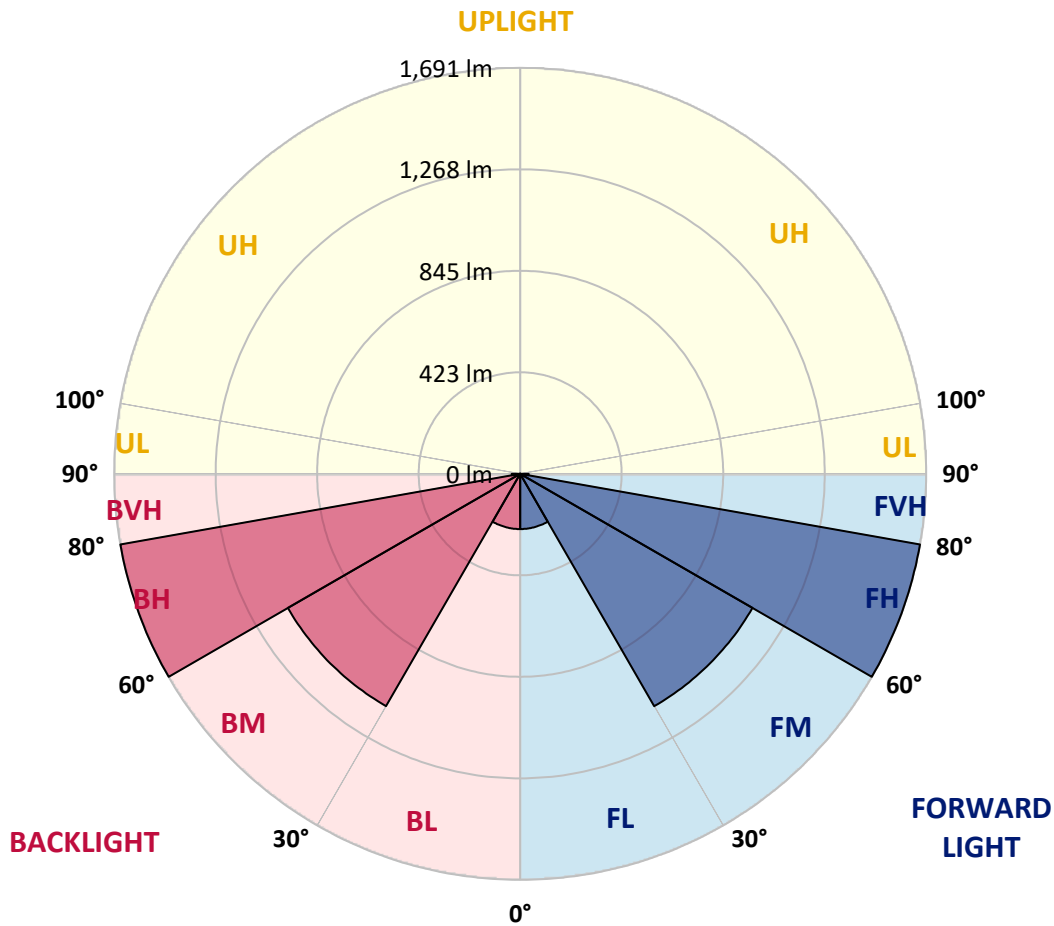


REPORT NUMBER: P881732  
 CATALOG NUMBER: NAV-SB1B-740-U-5WQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	230.1	3.7			
FM (30°-60°)	1117.1	18.2			
FH (60°-80°)	1690.7	27.5			G1/1800
FVH (80°-90°)	35.1	0.6			G1/100
BL (0°-30°)	230.1	3.7	B1/500		
BM (30°-60°)	1117.1	18.2	B2/2500		
BH (60°-80°)	1690.7	27.5	B3/2500		G1/1800
BVH (80°-90°)	35.1	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**  
 Type V Short



REPORT NUMBER: P881732

CATALOG NUMBER: NAV-SB1B-740-U-5WQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	560.6	560.6	560.6	560.6	560.6	560.6	560.6	560.6	560.6	560.6	560.6
2.5°	557.1	558.7	558.1	556.8	556.8	555.8	556.8	557.4	558.4	559.0	558.7
5°	549.8	551.1	550.7	549.8	550.1	549.1	549.8	550.7	551.4	551.7	551.7
7.5°	543.4	544.7	544.0	542.4	542.4	541.5	541.8	542.7	543.7	544.0	544.0
10°	541.8	543.1	541.2	538.6	537.6	536.4	536.7	537.6	539.6	540.5	540.5
12.5°	542.4	543.4	541.5	537.6	536.7	535.4	535.4	536.4	538.9	540.2	540.5
15°	544.3	545.3	542.4	538.3	537.3	536.4	536.0	537.3	540.2	542.4	542.7
17.5°	547.9	548.8	544.3	538.6	537.3	537.6	537.3	538.3	542.7	546.9	546.9
20°	551.1	551.7	545.6	538.6	537.3	537.6	537.3	539.2	545.0	550.7	551.1
22.5°	552.0	552.7	546.9	540.8	539.9	540.2	539.9	541.8	547.2	553.0	553.0
25°	552.3	553.3	548.8	544.0	545.6	546.3	545.6	545.9	550.1	555.2	554.9
27.5°	557.1	558.4	554.2	550.1	551.1	550.7	551.7	552.7	555.8	561.0	559.7
30°	567.0	568.0	564.5	560.3	559.7	557.4	560.3	563.5	567.0	571.5	570.5
32.5°	583.3	585.2	580.8	576.3	573.4	572.1	574.4	579.8	584.6	589.4	587.5
35°	610.5	611.8	607.6	599.3	594.2	594.2	596.1	603.1	610.8	616.9	614.6
37.5°	648.8	650.4	643.1	633.2	625.5	625.5	628.0	635.4	646.9	655.5	652.3
40°	695.4	697.7	688.4	678.2	670.9	669.6	672.8	681.1	691.9	702.8	699.3
42.5°	751.7	754.2	742.1	733.1	727.4	727.4	729.0	736.7	746.6	760.0	759.0
45°	823.5	828.0	811.4	802.5	797.0	798.3	799.3	806.0	814.9	830.3	829.6
47.5°	909.2	913.6	896.1	886.8	885.8	891.9	888.1	892.9	897.7	915.2	910.1
50°	1006.3	1013.9	1001.8	1001.2	1003.1	1014.3	1005.3	1007.9	1002.4	1013.6	1006.9
52.5°	1125.1	1136.3	1134.1	1137.9	1159.3	1182.3	1161.8	1152.9	1132.5	1136.0	1124.2
55°	1269.2	1286.1	1289.3	1312.3	1360.9	1407.8	1364.4	1328.3	1284.8	1276.9	1264.4
57.5°	1433.1	1446.5	1461.8	1508.8	1599.5	1682.9	1599.5	1519.6	1451.3	1435.0	1423.5
60°	1609.4	1626.0	1640.7	1710.0	1844.8	1962.1	1842.3	1715.5	1625.1	1603.0	1583.8
62.5°	1798.8	1820.2	1830.5	1907.5	2064.6	2204.5	2066.9	1913.2	1812.9	1789.3	1770.1
65°	1980.6	1998.2	2009.7	2091.8	2241.9	2382.2	2252.1	2100.7	1997.5	1966.5	1951.2
67.5°	2065.3	2074.8	2103.0	2195.9	2354.4	2514.4	2381.2	2205.8	2090.5	2036.2	2036.8
70°	1941.3	1921.8	1989.5	2138.4	2367.8	2595.6	2398.4	2133.9	1992.7	1904.6	1925.7
72.5°	1500.1	1466.6	1584.2	1838.8	2214.4	2543.8	2229.8	1853.1	1657.3	1478.4	1522.8
75°	816.2	778.2	940.5	1262.5	1765.9	2204.9	1806.5	1298.6	1047.2	810.1	862.8
77.5°	230.3	215.9	346.9	610.8	1062.2	1548.1	1103.1	624.2	411.5	244.1	271.2
80°	70.6	68.4	92.6	184.0	451.1	741.4	433.5	186.2	117.9	74.4	78.6
82.5°	41.8	38.3	46.0	67.1	115.0	232.9	111.8	70.0	56.2	37.7	40.9
85°	24.0	22.4	27.2	32.6	38.7	49.5	32.3	33.2	30.0	20.1	21.1
87.5°	9.9	8.9	10.5	10.2	8.9	11.5	8.6	10.2	12.1	8.0	7.3
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)