

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: P881712

Luminaire Tested: **NAV-SB1B-730-U-5WQ**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P881712  
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-730-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

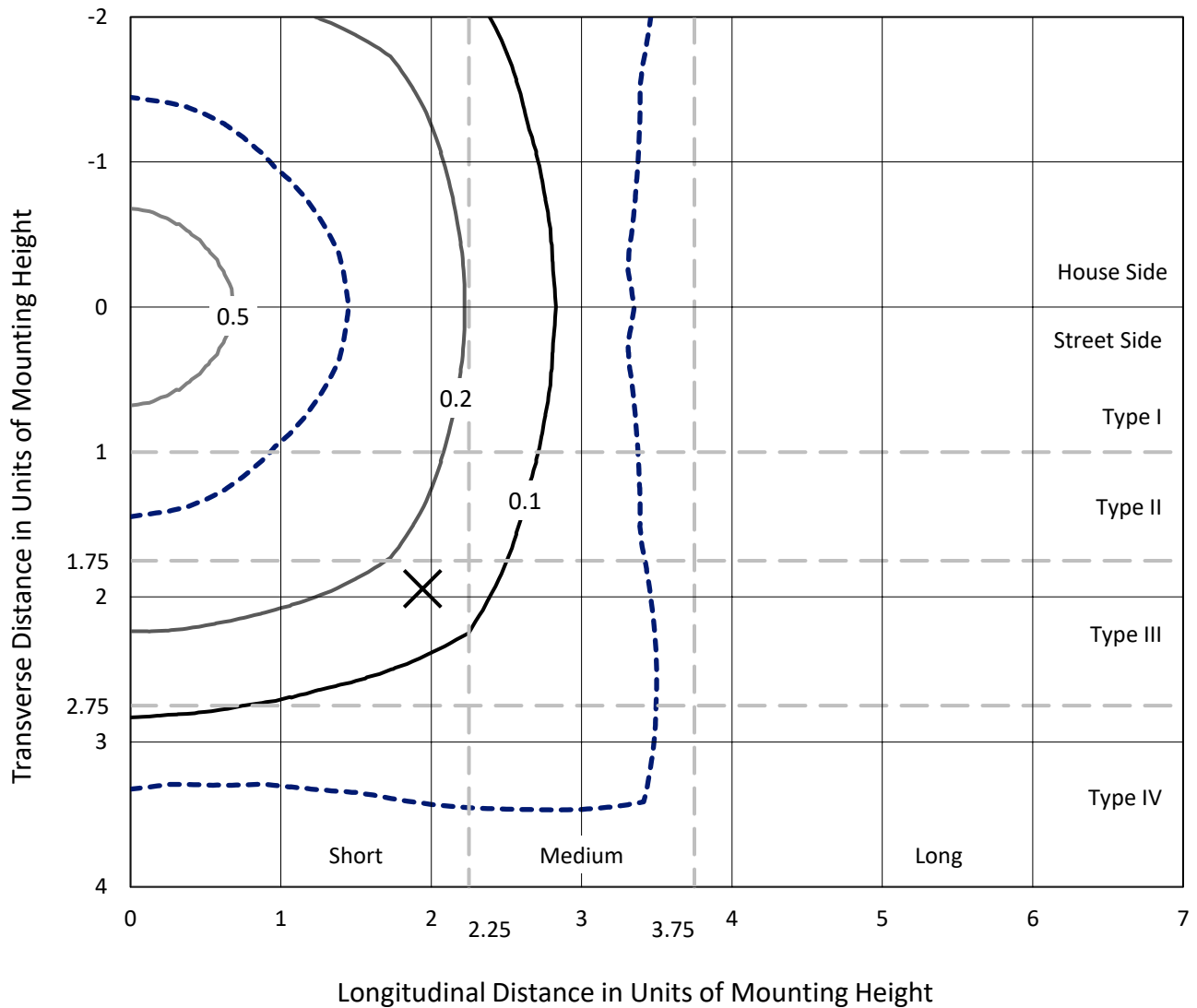
Lumens per Lamp: N/A  
Luminaire Lumens: 5612 lumens  
Efficiency: N/A  
Efficacy: 141.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): 120.0  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

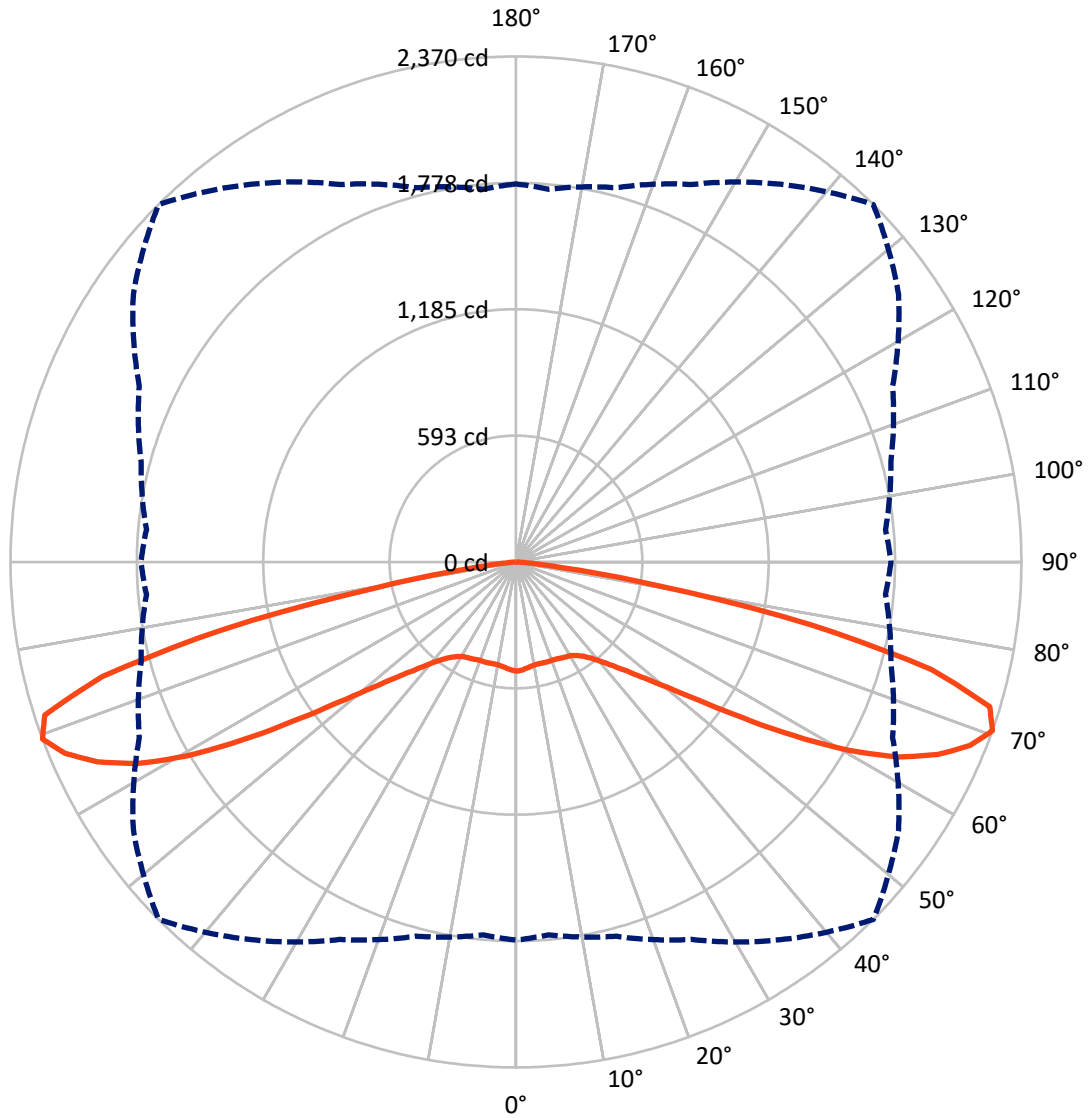
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2806.0	0.0	2806.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2806.0	0.0	2806.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5612.0	0.0	5612.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.6	0.8
10°-20°	139.8	2.5
20°-30°	232.7	4.1
30°-40°	351.9	6.3
40°-50°	584.8	10.4
50°-60°	1103.5	19.7
60°-70°	1863.2	33.2
70°-80°	1224.3	21.8
80°-90°	64.1	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°	5612.0	100.0
0°-180°	5612.0	100.0

**Coefficient of Utilization**



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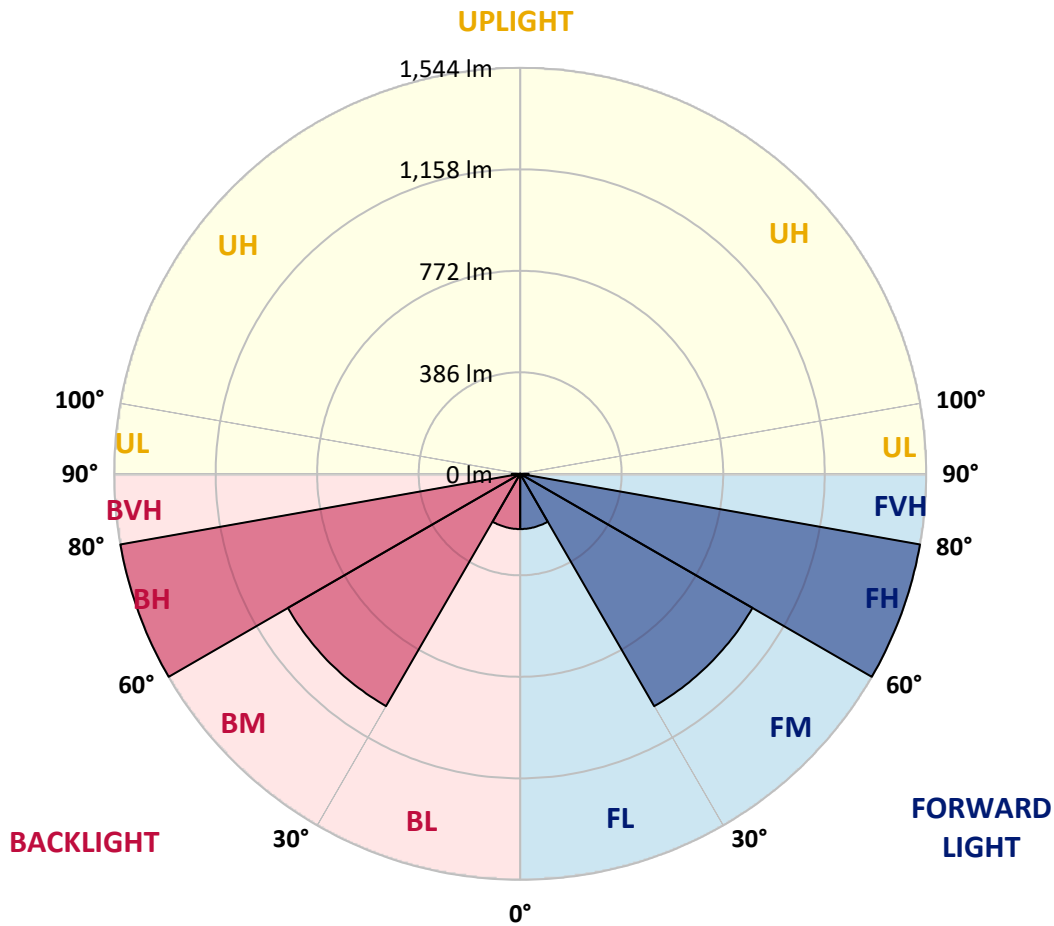
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	210.1	3.7			
FM (30°-60°)	1020.1	18.2			
FH (60°-80°)	1543.8	27.5			G1/1800
FVH (80°-90°)	32.1	0.6			G1/100
BL (0°-30°)	210.1	3.7	B1/500		
BM (30°-60°)	1020.1	18.2	B2/2500		
BH (60°-80°)	1543.8	27.5	B3/2500		G1/1800
BVH (80°-90°)	32.1	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	511.9	511.9	511.9	511.9	511.9	511.9	511.9	511.9	511.9	511.9	511.9
2.5°	508.7	510.2	509.6	508.4	508.4	507.6	508.4	509.0	509.9	510.5	510.2
5°	502.0	503.2	502.9	502.0	502.3	501.4	502.0	502.9	503.5	503.8	503.8
7.5°	496.2	497.3	496.8	495.3	495.3	494.4	494.7	495.6	496.5	496.8	496.8
10°	494.7	495.9	494.1	491.8	490.9	489.8	490.1	490.9	492.7	493.6	493.6
12.5°	495.3	496.2	494.4	490.9	490.1	488.9	488.9	489.8	492.1	493.3	493.6
15°	497.1	497.9	495.3	491.5	490.6	489.8	489.5	490.6	493.3	495.3	495.6
17.5°	500.3	501.1	497.1	491.8	490.6	490.9	490.6	491.5	495.6	499.4	499.4
20°	503.2	503.8	498.2	491.8	490.6	490.9	490.6	492.4	497.6	502.9	503.2
22.5°	504.1	504.6	499.4	493.8	493.0	493.3	493.0	494.7	499.7	504.9	504.9
25°	504.3	505.2	501.1	496.8	498.2	498.8	498.2	498.5	502.3	507.0	506.7
27.5°	508.7	509.9	506.1	502.3	503.2	502.9	503.8	504.6	507.6	512.2	511.1
30°	517.8	518.6	515.4	511.6	511.1	509.0	511.6	514.6	517.8	521.8	521.0
32.5°	532.6	534.4	530.3	526.2	523.6	522.4	524.5	529.4	533.8	538.2	536.4
35°	557.4	558.6	554.8	547.2	542.6	542.6	544.3	550.7	557.7	563.3	561.2
37.5°	592.4	593.9	587.2	578.1	571.1	571.1	573.5	580.2	590.7	598.6	595.6
40°	635.0	637.1	628.6	619.3	612.6	611.4	614.3	621.9	631.8	641.7	638.5
42.5°	686.4	688.7	677.6	669.4	664.2	664.2	665.7	672.7	681.7	693.9	693.1
45°	752.0	756.1	740.9	732.7	727.8	728.9	729.8	736.0	744.1	758.1	757.5
47.5°	830.2	834.3	818.2	809.7	808.9	814.4	810.9	815.3	819.7	835.7	831.0
50°	918.8	925.8	914.8	914.2	915.9	926.1	918.0	920.3	915.3	925.6	919.4
52.5°	1027.4	1037.6	1035.5	1039.0	1058.6	1079.6	1060.9	1052.7	1034.1	1037.3	1026.5
55°	1158.9	1174.4	1177.3	1198.3	1242.6	1285.5	1245.8	1212.9	1173.2	1165.9	1154.5
57.5°	1308.6	1320.8	1334.8	1377.7	1460.5	1536.7	1460.5	1387.6	1325.2	1310.3	1299.8
60°	1469.6	1484.7	1498.2	1561.5	1684.5	1791.6	1682.2	1566.4	1483.9	1463.7	1446.2
62.5°	1642.5	1662.1	1671.4	1741.7	1885.2	2013.0	1887.3	1747.0	1655.4	1633.8	1616.3
65°	1808.5	1824.6	1835.1	1910.0	2047.1	2175.2	2056.5	1918.2	1824.0	1795.7	1781.7
67.5°	1885.8	1894.6	1920.2	2005.1	2149.8	2295.9	2174.3	2014.2	1908.9	1859.3	1859.9
70°	1772.6	1754.8	1816.7	1952.6	2162.1	2370.0	2190.1	1948.5	1819.6	1739.1	1758.3
72.5°	1369.8	1339.2	1446.5	1679.0	2022.0	2322.8	2036.0	1692.1	1513.3	1350.0	1390.5
75°	745.3	710.6	858.8	1152.8	1612.5	2013.3	1649.5	1185.7	956.2	739.7	787.9
77.5°	210.3	197.2	316.8	557.7	969.9	1413.6	1007.2	570.0	375.7	222.9	247.7
80°	64.5	62.4	84.6	168.0	411.9	677.0	395.8	170.1	107.6	68.0	71.8
82.5°	38.2	35.0	42.0	61.3	105.0	212.6	102.1	63.9	51.3	34.4	37.3
85°	21.9	20.4	24.8	29.8	35.3	45.2	29.5	30.3	27.4	18.4	19.3
87.5°	9.0	8.2	9.6	9.3	8.2	10.5	7.9	9.3	11.1	7.3	6.7
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)