

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: P883242

Luminaire Tested: **NAV-SB3C-730-U-5WQ**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883242  
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-SB3C-730-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

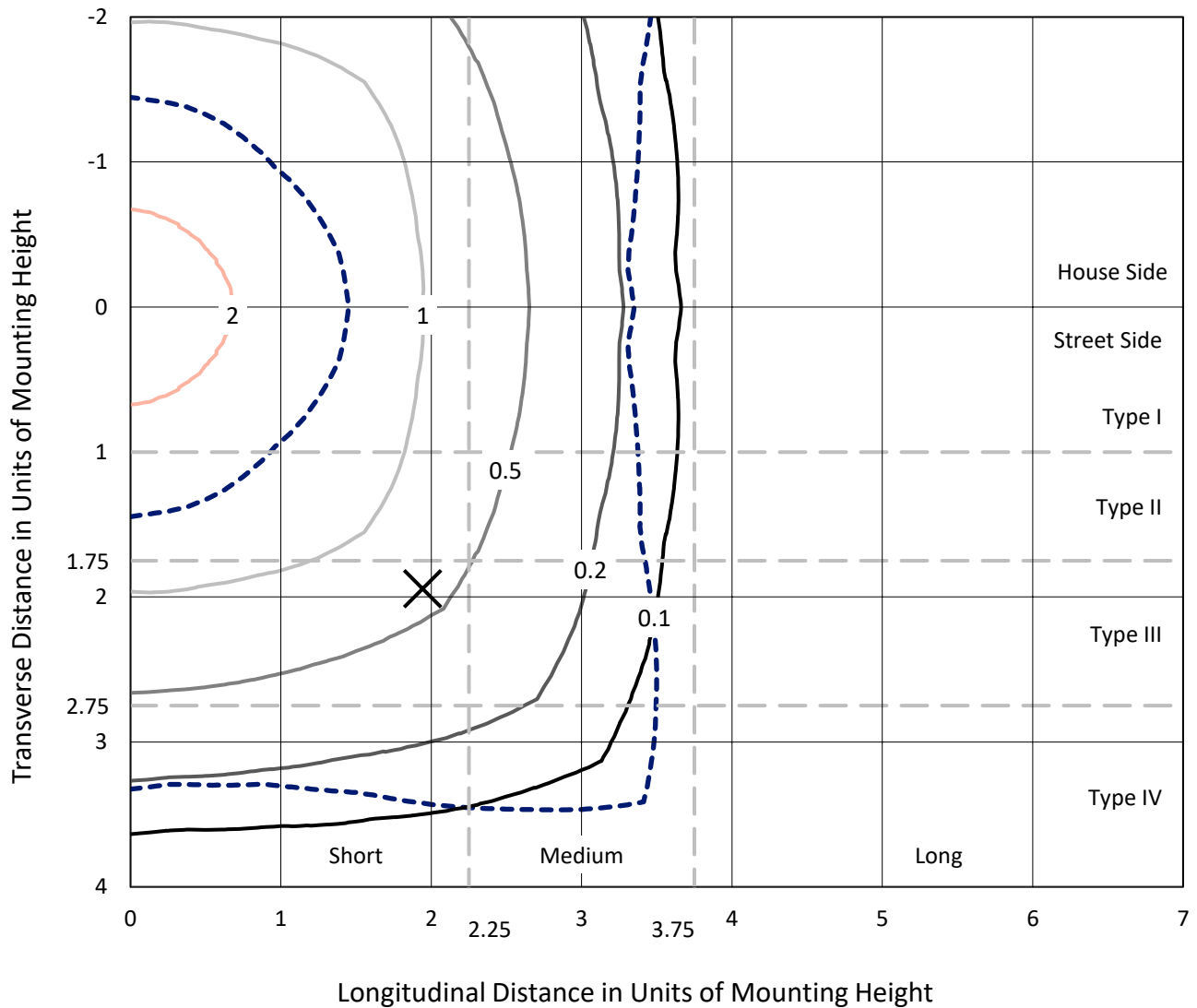
Lumens per Lamp: N/A  
Luminaire Lumens: 22367 lumens  
Efficiency: N/A  
Efficacy: 150.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 149.1  
Input Voltage (V): 120.0  
Input Current (Ain): 1.259  
Voltage Rise (V): NR  
Power Factor: 0.997  
Total Harmonic Distortion (THDi): 6.297  
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

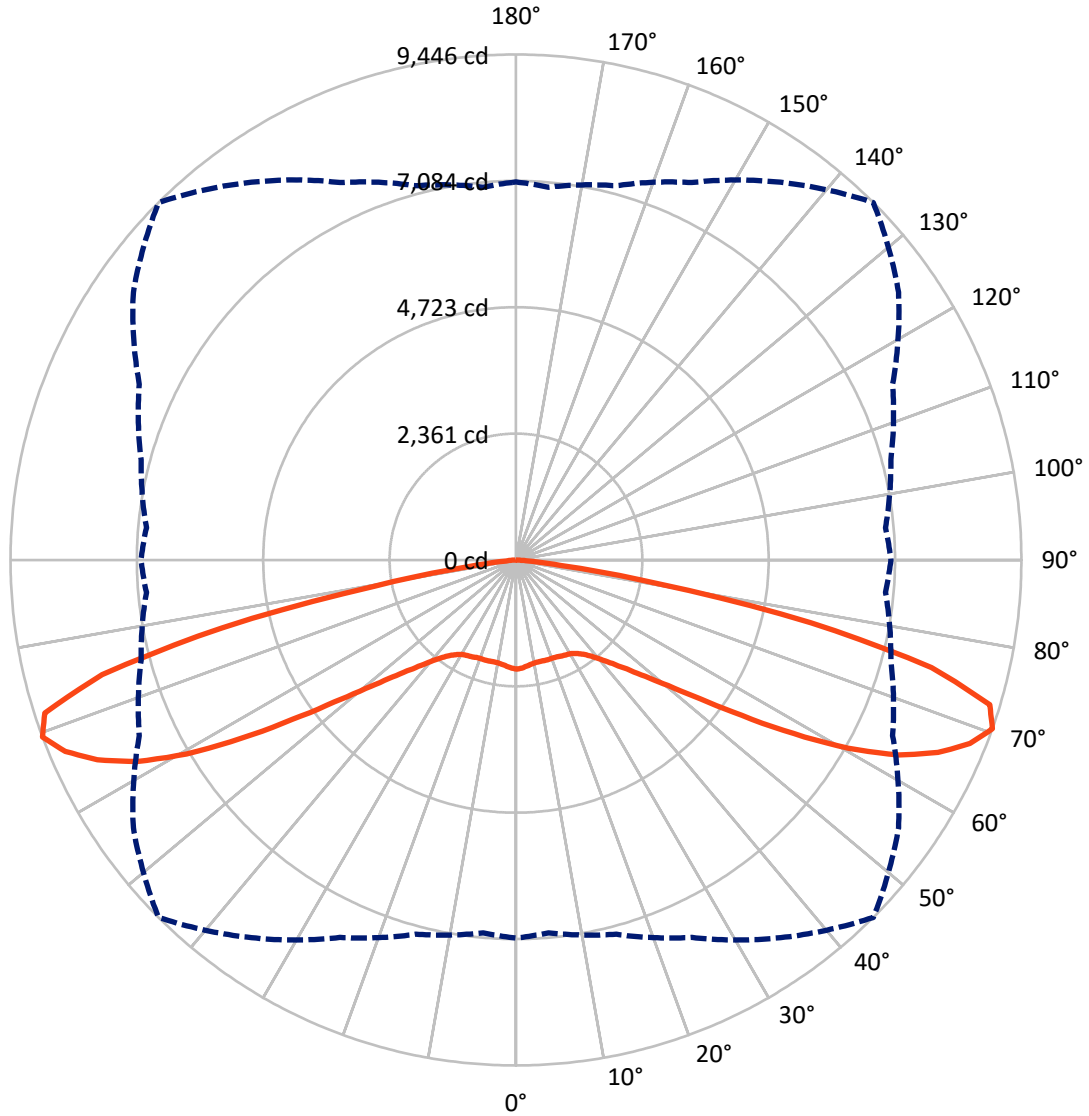
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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	11183.5	0.0	11183.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11183.5	0.0	11183.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	22367.0	0.0	22367.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.8	0.8
10°-20°	557.3	2.5
20°-30°	927.4	4.1
30°-40°	1402.5	6.3
40°-50°	2330.7	10.4
50°-60°	4397.9	19.7
60°-70°	7426.0	33.2
70°-80°	4879.7	21.8
80°-90°	255.6	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°	22367.0	100.0
0°-180°	22367.0	100.0



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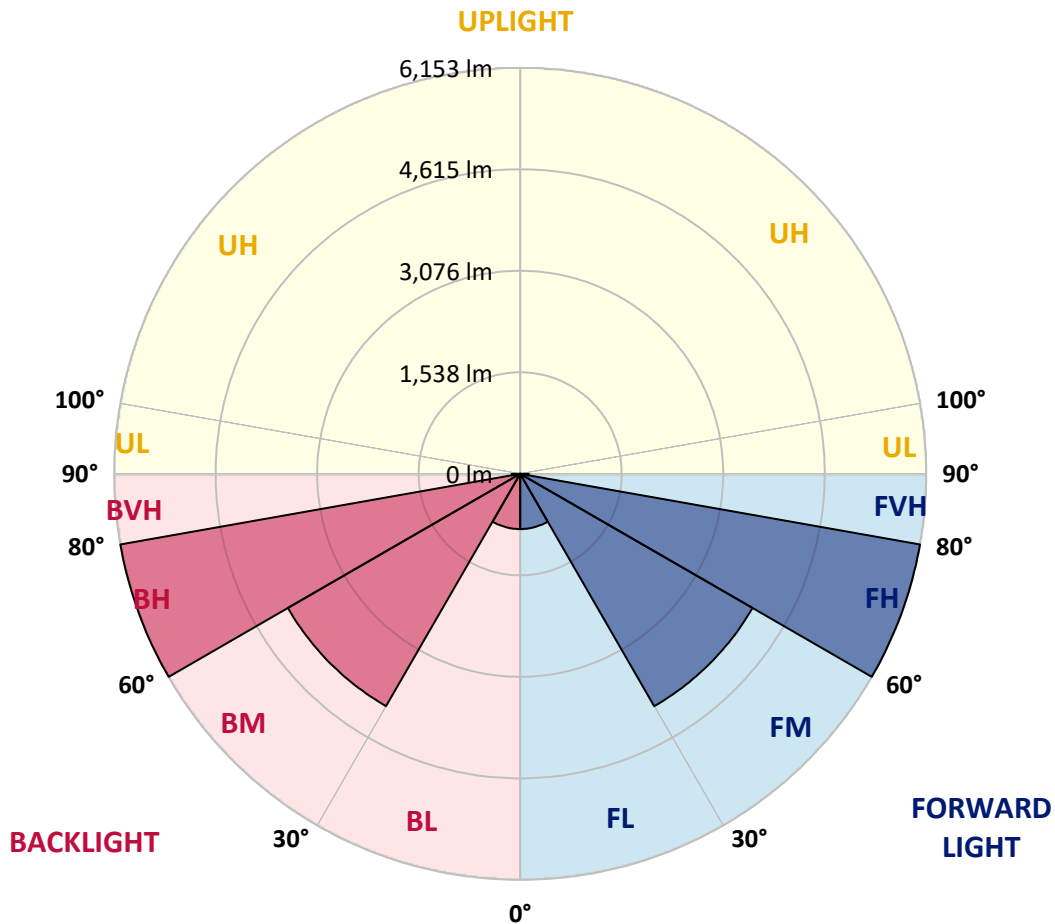
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	837.3	3.7			
FM (30°-60°)	4065.6	18.2			
FH (60°-80°)	6152.9	27.5			G3/7500
FVH (80°-90°)	127.8	0.6			G2/225
BL (0°-30°)	837.3	3.7	B2/1000		
BM (30°-60°)	4065.6	18.2	B3/5000		
BH (60°-80°)	6152.9	27.5	B5		G3/7500
BVH (80°-90°)	127.8	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2040.3	2040.3	2040.3	2040.3	2040.3	2040.3	2040.3	2040.3	2040.3	2040.3	2040.3
2.5°	2027.5	2033.3	2031.0	2026.4	2026.4	2022.9	2026.4	2028.7	2032.2	2034.5	2033.3
5°	2000.8	2005.4	2004.3	2000.8	2002.0	1998.5	2000.8	2004.3	2006.6	2007.8	2007.8
7.5°	1977.5	1982.2	1979.9	1974.1	1974.1	1970.6	1971.7	1975.2	1978.7	1979.9	1979.9
10°	1971.7	1976.4	1969.4	1960.1	1956.6	1952.0	1953.1	1956.6	1963.6	1967.1	1967.1
12.5°	1974.1	1977.5	1970.6	1956.6	1953.1	1948.5	1948.5	1952.0	1961.3	1965.9	1967.1
15°	1981.0	1984.5	1974.1	1958.9	1955.5	1952.0	1950.8	1955.5	1965.9	1974.1	1975.2
17.5°	1993.8	1997.3	1981.0	1960.1	1955.5	1956.6	1955.5	1958.9	1975.2	1990.3	1990.3
20°	2005.4	2007.8	1985.7	1960.1	1955.5	1956.6	1955.5	1962.4	1983.4	2004.3	2005.4
22.5°	2008.9	2011.3	1990.3	1968.2	1964.8	1965.9	1964.8	1971.7	1991.5	2012.4	2012.4
25°	2010.1	2013.6	1997.3	1979.9	1985.7	1988.0	1985.7	1986.8	2002.0	2020.6	2019.4
27.5°	2027.5	2032.2	2017.1	2002.0	2005.4	2004.3	2007.8	2011.3	2022.9	2041.5	2036.8
30°	2063.6	2067.1	2054.3	2039.2	2036.8	2028.7	2039.2	2050.8	2063.6	2079.8	2076.4
32.5°	2122.9	2129.8	2113.6	2097.3	2086.8	2082.2	2090.3	2110.1	2127.5	2145.0	2138.0
35°	2221.7	2226.3	2211.2	2181.0	2162.4	2162.4	2169.4	2194.9	2222.8	2244.9	2236.8
37.5°	2361.2	2367.0	2340.3	2304.2	2276.3	2276.3	2285.6	2312.4	2354.2	2385.6	2374.0
40°	2530.9	2539.1	2505.4	2468.1	2441.4	2436.8	2448.4	2478.6	2518.1	2557.7	2544.9
42.5°	2735.5	2744.8	2700.7	2668.1	2647.2	2647.2	2653.0	2680.9	2716.9	2765.8	2762.3
45°	2997.1	3013.4	2952.9	2920.4	2900.6	2905.3	2908.8	2933.2	2965.7	3021.5	3019.2
47.5°	3308.7	3325.0	3261.0	3227.3	3223.8	3245.9	3232.0	3249.4	3266.8	3330.8	3312.2
50°	3662.1	3690.0	3645.8	3643.5	3650.5	3691.2	3658.6	3667.9	3648.2	3688.9	3664.4
52.5°	4094.6	4135.3	4127.1	4141.1	4219.0	4302.7	4228.3	4195.7	4121.3	4134.1	4091.1
55°	4618.9	4680.5	4692.2	4775.9	4952.6	5123.5	4965.4	4834.0	4675.9	4646.8	4601.5
57.5°	5215.3	5264.1	5319.9	5490.8	5821.0	6124.4	5821.0	5530.4	5281.6	5222.3	5180.4
60°	5857.1	5917.5	5971.0	6223.3	6713.9	7140.5	6704.6	6243.0	5914.0	5833.8	5764.1
62.5°	6546.5	6624.4	6661.6	6941.7	7513.7	8022.9	7521.9	6962.7	6597.6	6511.6	6441.8
65°	7208.0	7271.9	7313.8	7612.5	8159.0	8669.3	8196.2	7645.1	7269.6	7156.8	7101.0
67.5°	7516.1	7550.9	7653.2	7991.5	8568.2	9150.6	8665.8	8027.6	7607.9	7410.3	7412.6
70°	7065.0	6994.1	7240.5	7782.3	8617.0	9445.9	8728.6	7766.0	7252.1	6931.3	7008.0
72.5°	5459.5	5337.4	5765.2	6691.8	8059.0	9257.6	8114.8	6744.1	6031.4	5380.4	5542.0
75°	2970.4	2832.0	3422.6	4594.5	6426.7	8024.1	6574.4	4725.9	3810.9	2948.3	3140.1
77.5°	838.2	785.9	1262.6	2222.8	3865.6	5633.8	4014.4	2271.7	1497.4	888.2	987.0
80°	256.9	248.8	337.1	669.6	1641.6	2698.3	1577.6	677.8	429.0	270.9	286.0
82.5°	152.3	139.5	167.4	244.1	418.5	847.5	406.9	254.6	204.6	137.2	148.8
85°	87.2	81.4	98.8	118.6	140.7	180.2	117.4	120.9	109.3	73.2	76.7
87.5°	36.0	32.6	38.4	37.2	32.6	41.9	31.4	37.2	44.2	29.1	26.7
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)