

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: P883252

Luminaire Tested: **NAV-SB3C-735-U-5WQ**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883252  
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-735-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

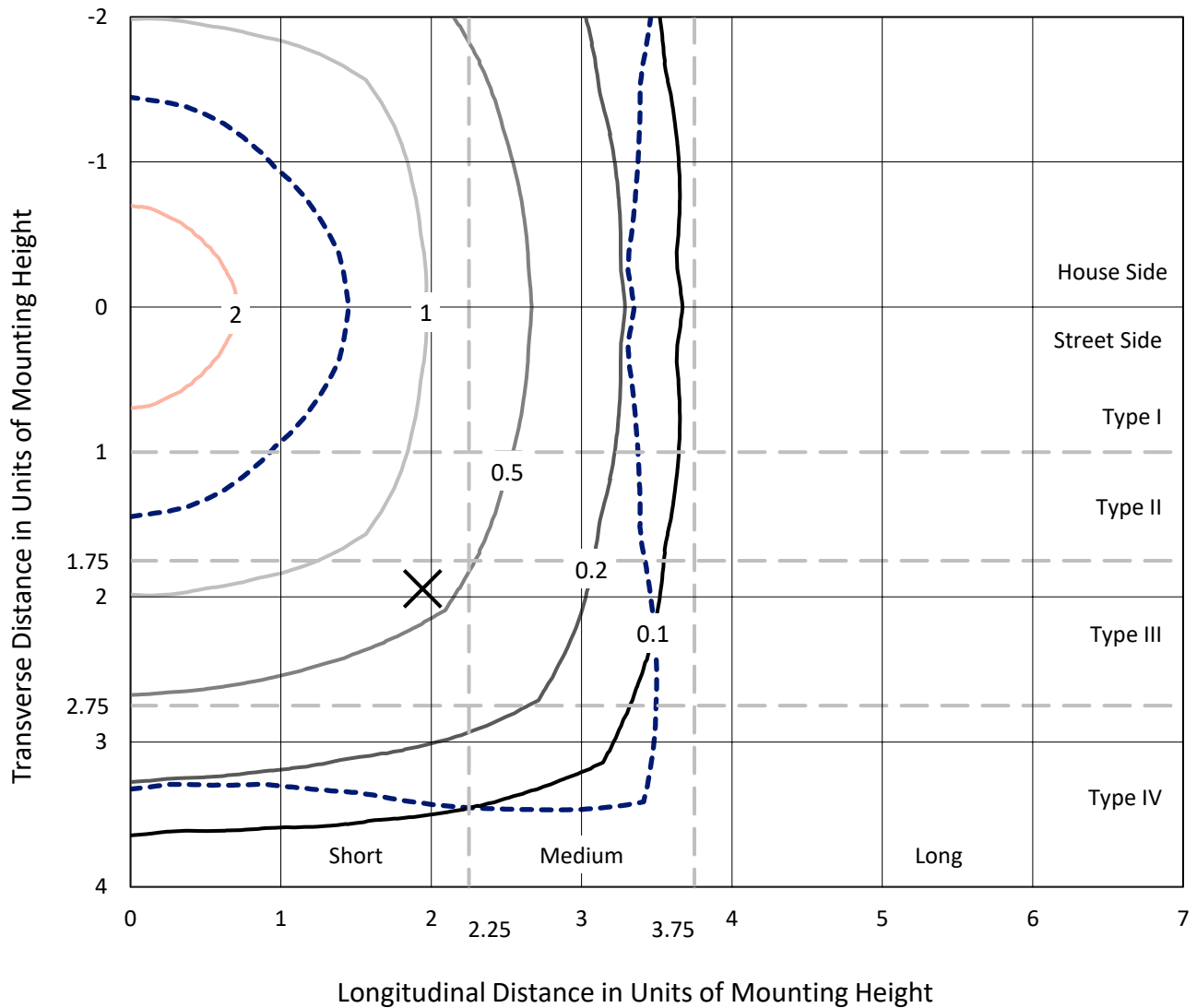
Lumens per Lamp: N/A  
Luminaire Lumens: 22722 lumens  
Efficiency: N/A  
Efficacy: 152.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 149.1  
Input Voltage (V): 120.0  
Input Current (Ain): 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

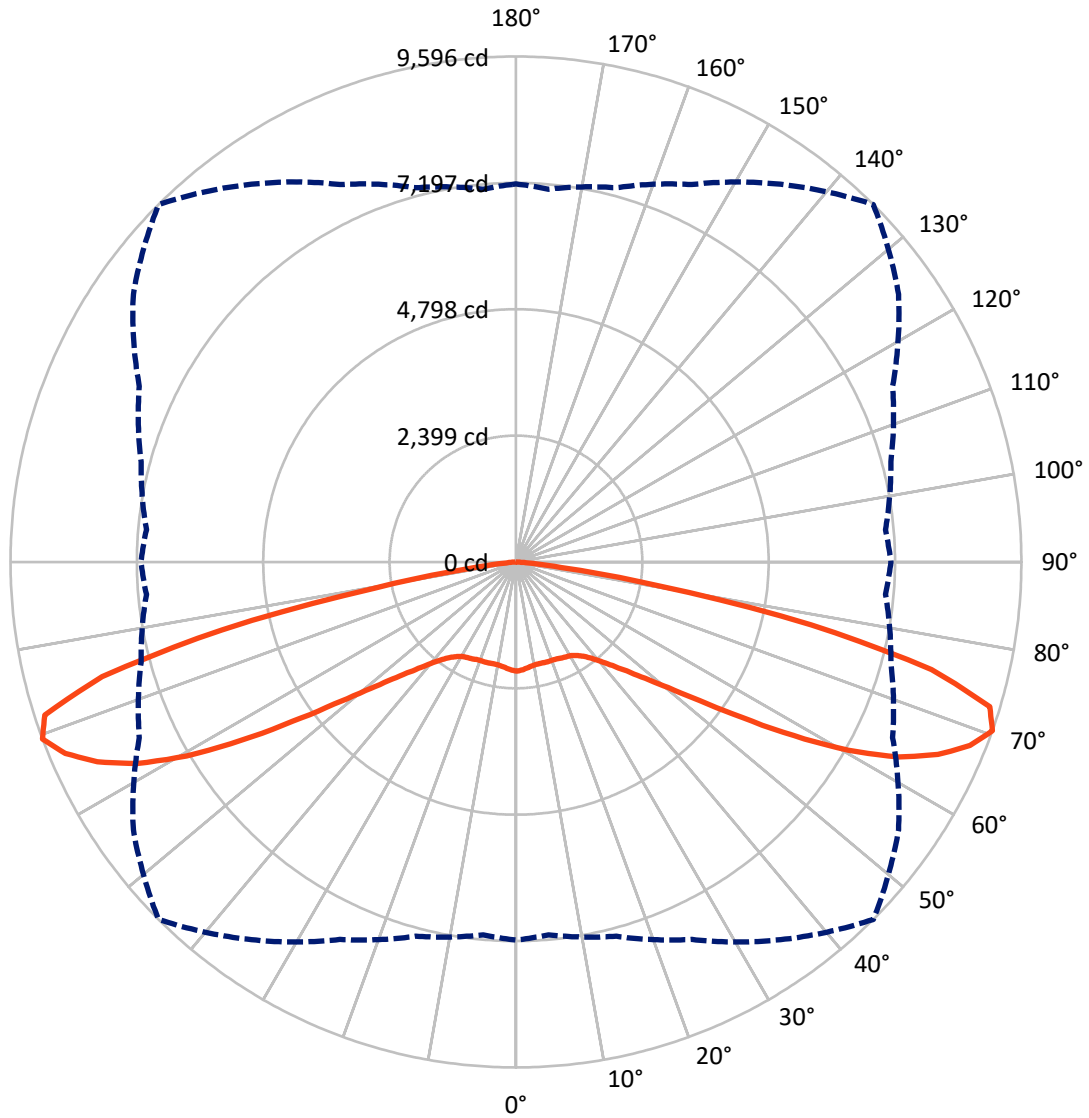
× Max cd  
 - - - 1/2 Max cd



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	11361.0	0.0	11361.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11361.0	0.0	11361.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	22722.0	0.0	22722.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.8	0.8
10°-20°	566.1	2.5
20°-30°	942.1	4.1
30°-40°	1424.8	6.3
40°-50°	2367.7	10.4
50°-60°	4467.7	19.7
60°-70°	7543.9	33.2
70°-80°	4957.1	21.8
80°-90°	259.7	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°	22722.0	100.0
0°-180°	22722.0	100.0



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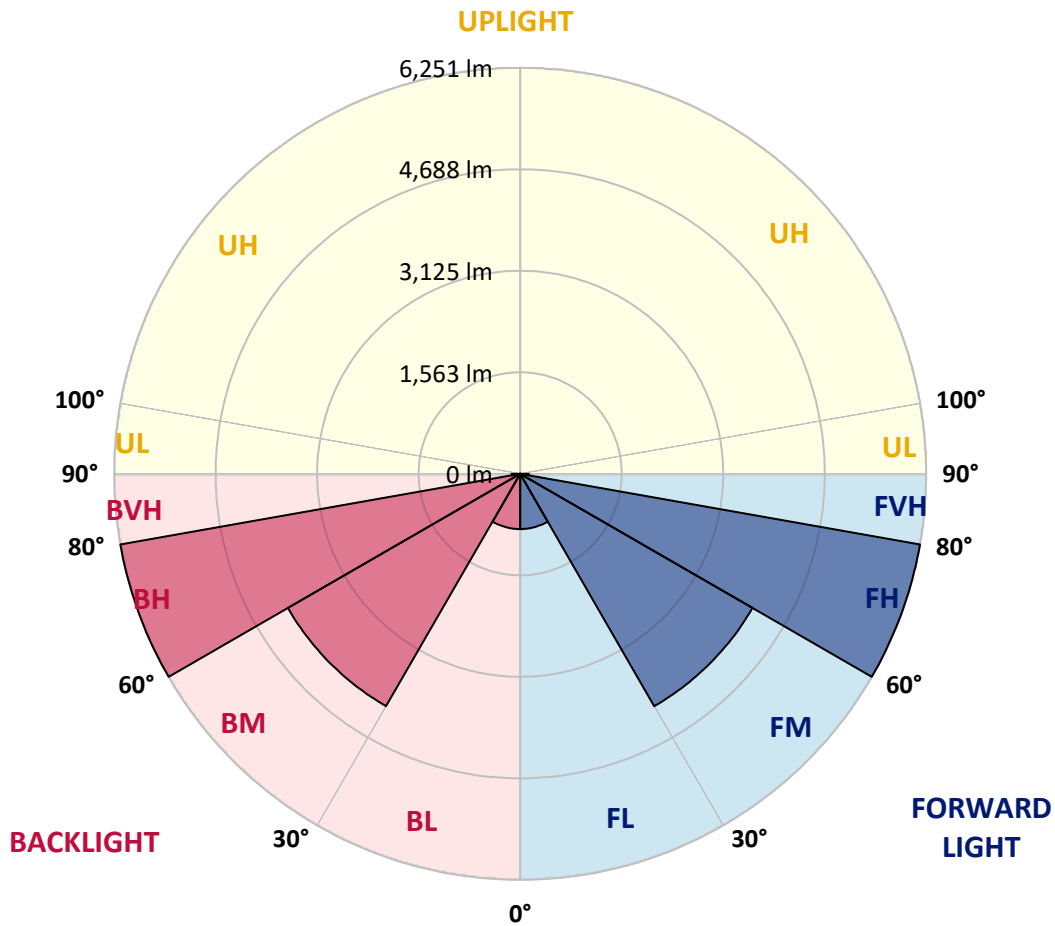
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	850.5	3.7			
FM (30°-60°)	4130.1	18.2			
FH (60°-80°)	6250.5	27.5			G3/7500
FVH (80°-90°)	129.9	0.6			G2/225
BL (0°-30°)	850.5	3.7	B2/1000		
BM (30°-60°)	4130.1	18.2	B3/5000		
BH (60°-80°)	6250.5	27.5	B5		G3/7500
BVH (80°-90°)	129.9	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°	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7
2.5°	2059.7	2065.6	2063.3	2058.5	2058.5	2055.0	2058.5	2060.9	2064.4	2066.8	2065.6
5°	2032.5	2037.3	2036.1	2032.5	2033.7	2030.2	2032.5	2036.1	2038.5	2039.6	2039.6
7.5°	2008.9	2013.7	2011.3	2005.4	2005.4	2001.8	2003.0	2006.6	2010.1	2011.3	2011.3
10°	2003.0	2007.7	2000.7	1991.2	1987.7	1982.9	1984.1	1987.7	1994.8	1998.3	1998.3
12.5°	2005.4	2008.9	2001.8	1987.7	1984.1	1979.4	1979.4	1982.9	1992.4	1997.1	1998.3
15°	2012.5	2016.0	2005.4	1990.0	1986.5	1982.9	1981.8	1986.5	1997.1	2005.4	2006.6
17.5°	2025.5	2029.0	2012.5	1991.2	1986.5	1987.7	1986.5	1990.0	2006.6	2021.9	2021.9
20°	2037.3	2039.6	2017.2	1991.2	1986.5	1987.7	1986.5	1993.6	2014.8	2036.1	2037.3
22.5°	2040.8	2043.2	2021.9	1999.5	1995.9	1997.1	1995.9	2003.0	2023.1	2044.4	2044.4
25°	2042.0	2045.5	2029.0	2011.3	2017.2	2019.6	2017.2	2018.4	2033.7	2052.6	2051.4
27.5°	2059.7	2064.4	2049.1	2033.7	2037.3	2036.1	2039.6	2043.2	2055.0	2073.9	2069.2
30°	2096.3	2099.9	2086.9	2071.5	2069.2	2060.9	2071.5	2083.3	2096.3	2112.9	2109.3
32.5°	2156.6	2163.6	2147.1	2130.6	2119.9	2115.2	2123.5	2143.6	2161.3	2179.0	2171.9
35°	2256.9	2261.7	2246.3	2215.6	2196.7	2196.7	2203.8	2229.8	2258.1	2280.6	2272.3
37.5°	2398.7	2404.6	2377.4	2340.8	2312.5	2312.5	2321.9	2349.1	2391.6	2423.5	2411.7
40°	2571.1	2579.4	2545.1	2507.3	2480.2	2475.4	2487.2	2518.0	2558.1	2598.3	2585.3
42.5°	2779.0	2788.4	2743.5	2710.5	2689.2	2689.2	2695.1	2723.5	2760.1	2809.7	2806.1
45°	3044.7	3061.2	2999.8	2966.7	2946.7	2951.4	2954.9	2979.7	3012.8	3069.5	3067.1
47.5°	3361.2	3377.7	3312.8	3278.5	3275.0	3297.4	3283.3	3301.0	3318.7	3383.6	3364.7
50°	3720.2	3748.6	3703.7	3701.3	3708.4	3749.8	3716.7	3726.1	3706.1	3747.4	3722.6
52.5°	4159.6	4200.9	4192.6	4206.8	4286.0	4371.0	4295.4	4262.3	4186.7	4199.7	4156.0
55°	4692.2	4754.8	4766.6	4851.7	5031.2	5204.8	5044.2	4910.7	4750.1	4720.6	4674.5
57.5°	5298.1	5347.7	5404.4	5578.0	5913.4	6221.7	5913.4	5618.1	5365.4	5305.2	5262.7
60°	5950.0	6011.4	6065.8	6322.0	6820.4	7253.9	6811.0	6342.1	6007.9	5926.4	5855.5
62.5°	6650.4	6729.5	6767.3	7051.9	7633.0	8150.3	7641.3	7073.2	6702.3	6614.9	6544.1
65°	7322.4	7387.3	7429.8	7733.4	8288.5	8806.9	8326.2	7766.4	7385.0	7270.4	7213.7
67.5°	7635.3	7670.8	7774.7	8118.4	8704.2	9295.9	8803.4	8155.0	7728.6	7527.9	7530.2
70°	7177.1	7105.1	7355.4	7905.8	8753.8	9595.9	8867.2	7889.3	7367.3	7041.3	7119.2
72.5°	5546.1	5422.1	5856.7	6798.0	8186.9	9404.5	8243.6	6851.1	6127.2	5465.8	5630.0
75°	3017.5	2877.0	3476.9	4667.4	6528.7	8151.5	6678.7	4800.9	3871.4	2995.1	3190.0
77.5°	851.5	798.4	1282.6	2258.1	3926.9	5723.3	4078.1	2307.7	1521.2	902.3	1002.7
80°	261.0	252.7	342.5	680.3	1667.6	2741.2	1602.7	688.5	435.8	275.2	290.5
82.5°	154.7	141.7	170.1	248.0	425.2	861.0	413.4	258.6	207.9	139.4	151.2
85°	88.6	82.7	100.4	120.5	142.9	183.1	119.3	122.8	111.0	74.4	77.9
87.5°	36.6	33.1	39.0	37.8	33.1	42.5	31.9	37.8	44.9	29.5	27.2
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)