

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: P884992

Luminaire Tested: **NAV-SB6A-827-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884992
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-SB6A-827-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22377 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

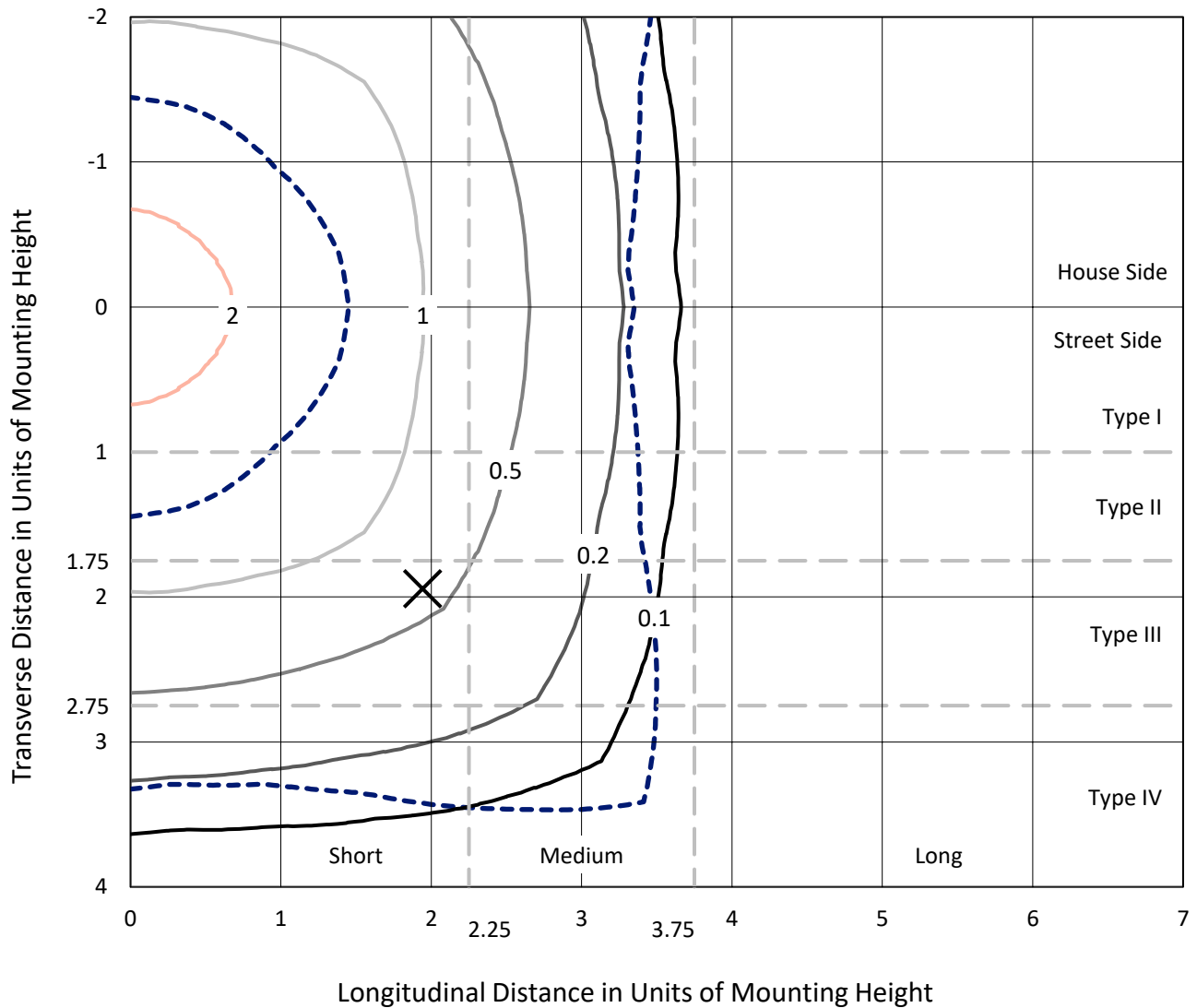
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

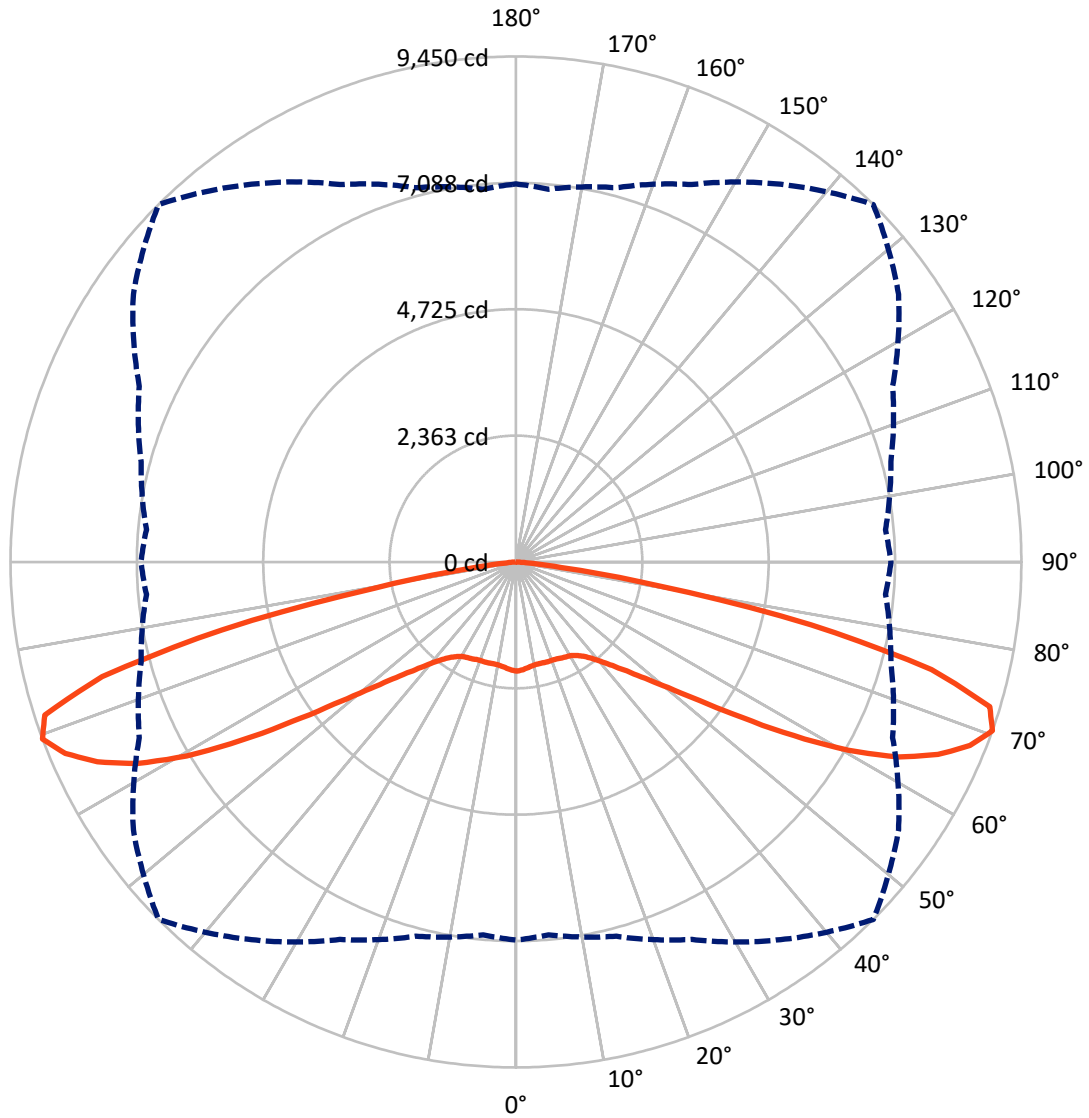
✕ Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	11188.5	0.0	11188.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11188.5	0.0	11188.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	22377.0	0.0	22377.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.9	0.8
10°-20°	557.5	2.5
20°-30°	927.8	4.1
30°-40°	1403.2	6.3
40°-50°	2331.7	10.4
50°-60°	4399.9	19.7
60°-70°	7429.4	33.2
70°-80°	4881.9	21.8
80°-90°	255.8	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°	22377.0	100.0
0°-180°	22377.0	100.0

Coefficient of Utilization

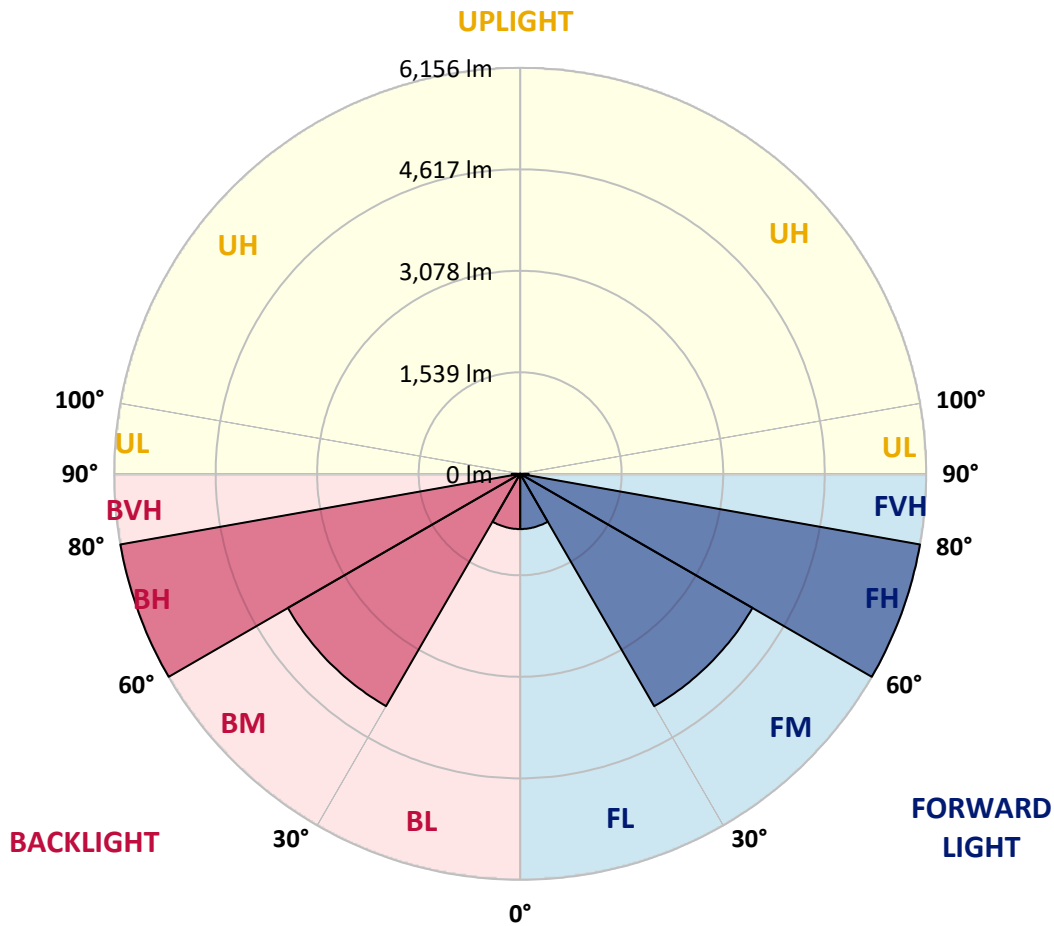


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	837.6	3.7			
FM (30°-60°)	4067.4	18.2			
FH (60°-80°)	6155.6	27.5			G3/7500
FVH (80°-90°)	127.9	0.6			G2/225
BL (0°-30°)	837.6	3.7	B2/1000		
BM (30°-60°)	4067.4	18.2	B3/5000		
BH (60°-80°)	6155.6	27.5	B5		G3/7500
BVH (80°-90°)	127.9	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°	2041.2	2041.2	2041.2	2041.2	2041.2	2041.2	2041.2	2041.2	2041.2	2041.2	2041.2
2.5°	2028.4	2034.3	2031.9	2027.3	2027.3	2023.8	2027.3	2029.6	2033.1	2035.4	2034.3
5°	2001.7	2006.3	2005.2	2001.7	2002.9	1999.4	2001.7	2005.2	2007.5	2008.7	2008.7
7.5°	1978.4	1983.1	1980.8	1974.9	1974.9	1971.4	1972.6	1976.1	1979.6	1980.8	1980.8
10°	1972.6	1977.3	1970.3	1961.0	1957.5	1952.8	1954.0	1957.5	1964.5	1968.0	1968.0
12.5°	1974.9	1978.4	1971.4	1957.5	1954.0	1949.3	1949.3	1952.8	1962.1	1966.8	1968.0
15°	1981.9	1985.4	1974.9	1959.8	1956.3	1952.8	1951.7	1956.3	1966.8	1974.9	1976.1
17.5°	1994.7	1998.2	1981.9	1961.0	1956.3	1957.5	1956.3	1959.8	1976.1	1991.2	1991.2
20°	2006.3	2008.7	1986.6	1961.0	1956.3	1957.5	1956.3	1963.3	1984.2	2005.2	2006.3
22.5°	2009.8	2012.2	1991.2	1969.1	1965.6	1966.8	1965.6	1972.6	1992.4	2013.3	2013.3
25°	2011.0	2014.5	1998.2	1980.8	1986.6	1988.9	1986.6	1987.7	2002.9	2021.5	2020.3
27.5°	2028.4	2033.1	2018.0	2002.9	2006.3	2005.2	2008.7	2012.2	2023.8	2042.4	2037.7
30°	2064.5	2068.0	2055.2	2040.1	2037.7	2029.6	2040.1	2051.7	2064.5	2080.8	2077.3
32.5°	2123.8	2130.8	2114.5	2098.2	2087.8	2083.1	2091.2	2111.0	2128.5	2145.9	2138.9
35°	2222.7	2227.3	2212.2	2182.0	2163.4	2163.4	2170.3	2195.9	2223.8	2245.9	2237.8
37.5°	2362.2	2368.1	2341.3	2305.3	2277.3	2277.3	2286.6	2313.4	2355.3	2386.7	2375.0
40°	2532.1	2540.2	2506.5	2469.3	2442.5	2437.8	2449.5	2479.7	2519.3	2558.8	2546.0
42.5°	2736.8	2746.1	2701.9	2669.3	2648.4	2648.4	2654.2	2682.1	2718.2	2767.0	2763.5
45°	2998.5	3014.7	2954.3	2921.7	2901.9	2906.6	2910.1	2934.5	2967.1	3022.9	3020.6
47.5°	3310.2	3326.5	3262.5	3228.8	3225.3	3247.4	3233.4	3250.9	3268.3	3332.3	3313.7
50°	3663.8	3691.7	3647.5	3645.1	3652.1	3692.8	3660.3	3669.6	3649.8	3690.5	3666.1
52.5°	4096.4	4137.1	4129.0	4142.9	4220.9	4304.6	4230.2	4197.6	4123.2	4136.0	4092.9
55°	4621.0	4682.6	4694.3	4778.0	4954.8	5125.8	4967.6	4836.2	4678.0	4648.9	4603.5
57.5°	5217.6	5266.5	5322.3	5493.3	5823.6	6127.2	5823.6	5532.8	5283.9	5224.6	5182.8
60°	5859.7	5920.2	5973.7	6226.1	6716.9	7143.7	6707.6	6245.8	5916.7	5836.4	5766.6
62.5°	6549.4	6627.3	6664.5	6944.8	7517.1	8026.5	7525.2	6965.8	6600.6	6514.5	6444.7
65°	7211.2	7275.2	7317.0	7616.0	8162.6	8673.2	8199.8	7648.5	7272.8	7160.0	7104.2
67.5°	7519.4	7554.3	7656.7	7995.1	8572.0	9154.7	8669.7	8031.2	7611.3	7413.6	7415.9
70°	7068.1	6997.2	7243.8	7785.8	8620.9	9450.2	8732.5	7769.5	7255.4	6934.4	7011.1
72.5°	5461.9	5339.8	5767.8	6694.8	8062.6	9261.7	8118.4	6747.1	6034.1	5382.8	5544.5
75°	2971.7	2833.3	3424.2	4596.6	6429.6	8027.7	6577.3	4728.0	3812.6	2949.6	3141.5
77.5°	838.6	786.3	1263.1	2223.8	3867.3	5636.4	4016.2	2272.7	1498.1	888.6	987.5
80°	257.0	248.9	337.3	669.9	1642.3	2699.5	1578.3	678.1	429.2	271.0	286.1
82.5°	152.4	139.6	167.5	244.3	418.7	847.9	407.1	254.7	204.7	137.2	148.9
85°	87.2	81.4	98.9	118.6	140.7	180.3	117.5	121.0	109.3	73.3	76.8
87.5°	36.1	32.6	38.4	37.2	32.6	41.9	31.4	37.2	44.2	29.1	26.8
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)