

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: P964457

Luminaire Tested: **NAV-SB3C-722-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964457
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-722-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19925 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

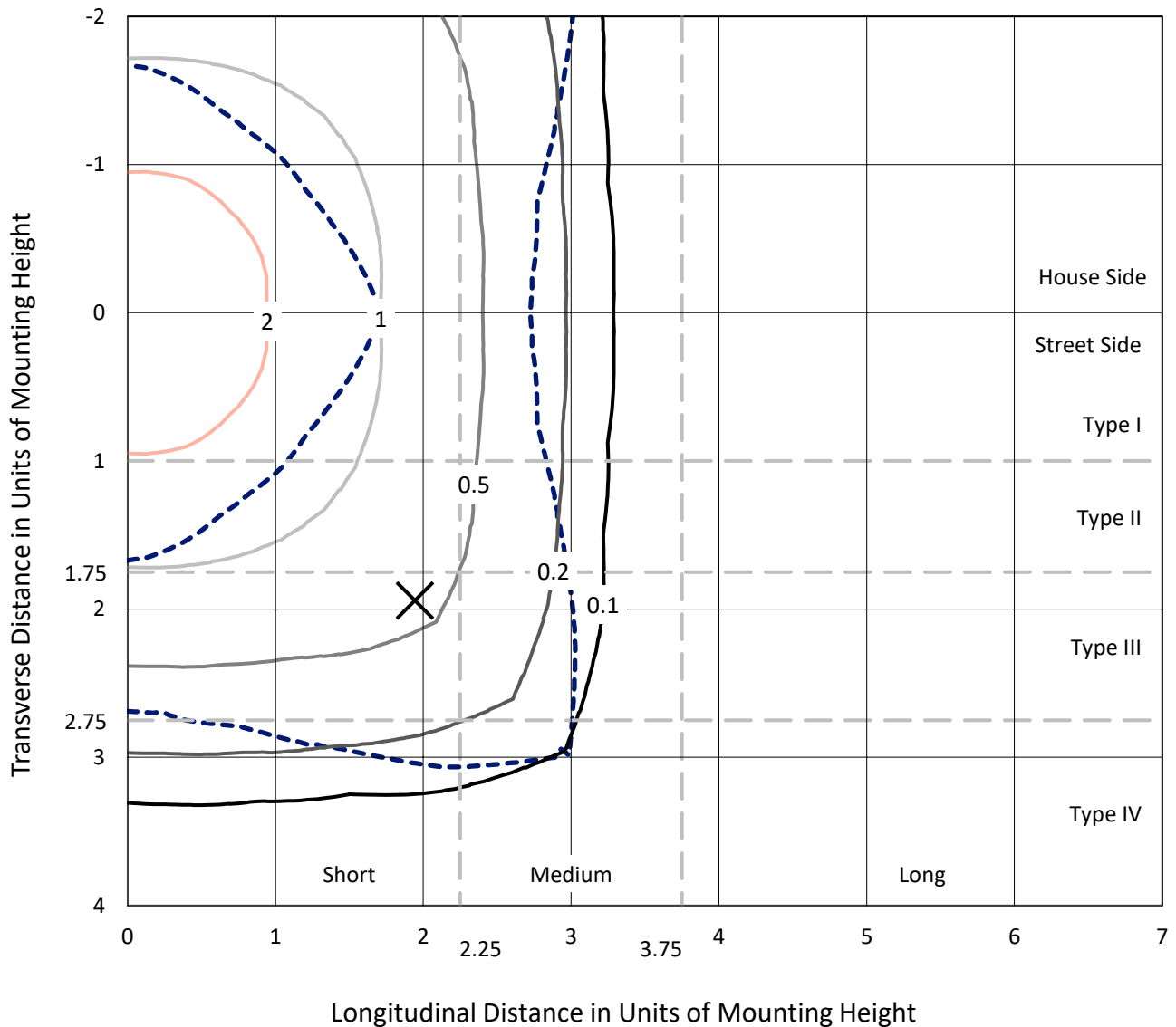
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P964457
 CATALOG NUMBER: NAV-SB3C-722-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

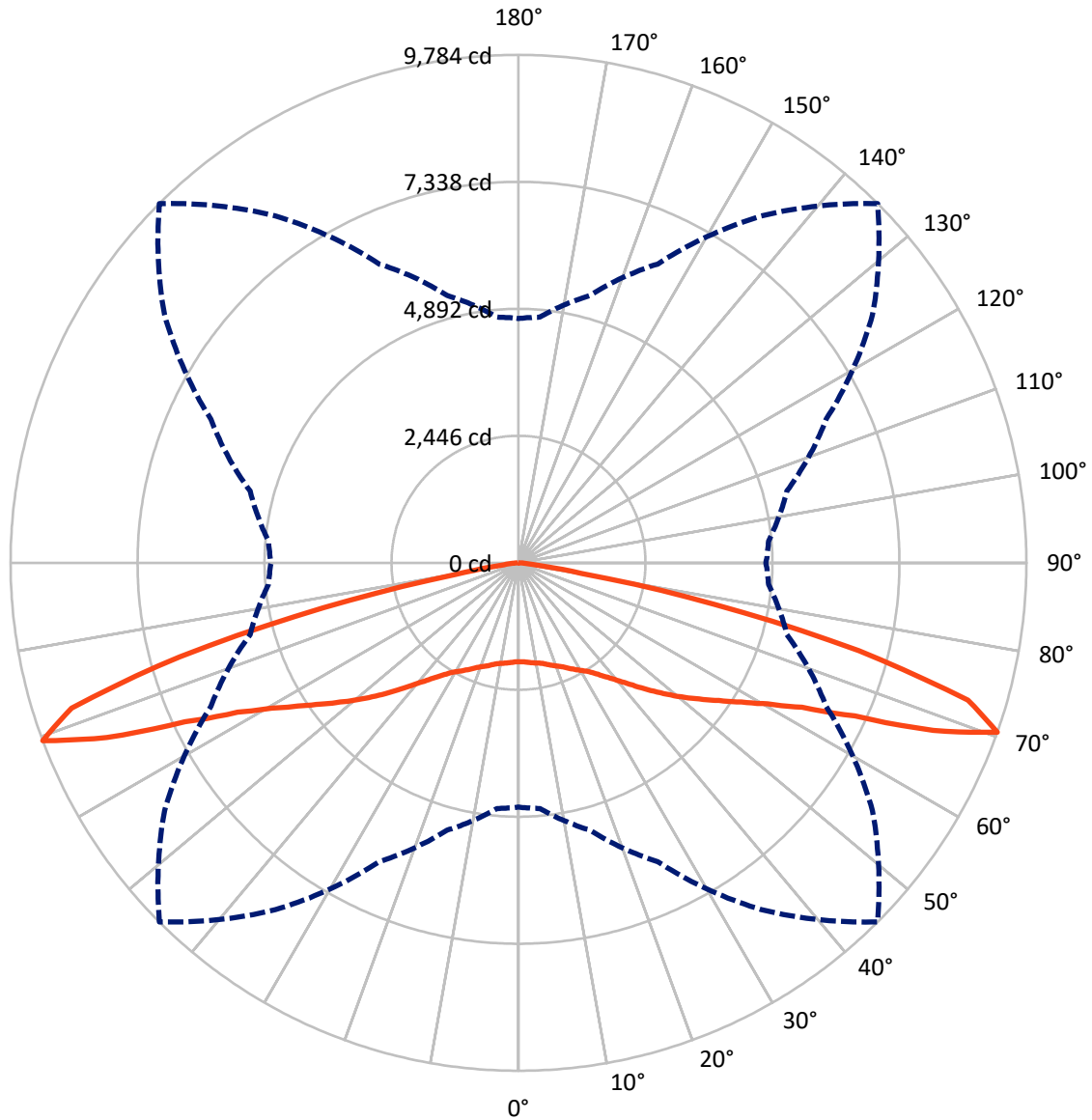
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - N/A

REPORT NUMBER: P964457
CATALOG NUMBER: NAV-SB3C-722-U-5MQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P964457
 CATALOG NUMBER: NAV-SB3C-722-U-5MQ

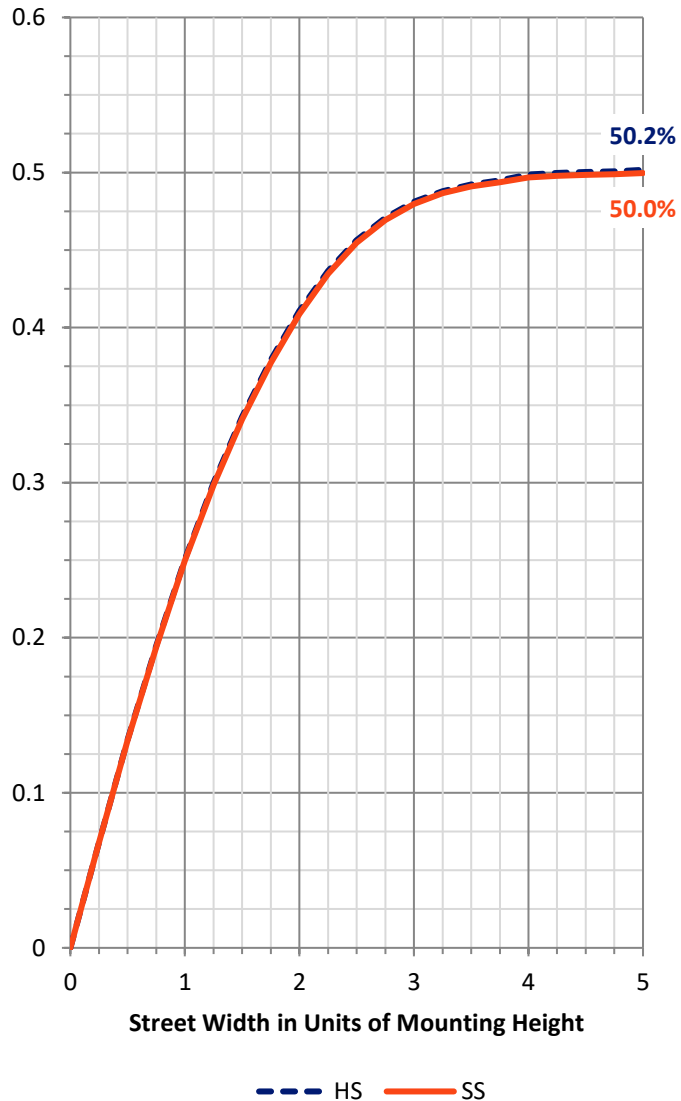
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9962.5	0.0	9962.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9962.5	0.0	9962.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19925.0	0.0	19925.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.4	0.9
10°-20°	575.0	2.9
20°-30°	1027.5	5.2
30°-40°	1665.6	8.4
40°-50°	2713.0	13.6
50°-60°	4136.5	20.8
60°-70°	6153.7	30.9
70°-80°	3354.0	16.8
80°-90°	114.2	0.6
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°	19925.0	100.0
0°-180°	19925.0	100.0

Coefficient of Utilization



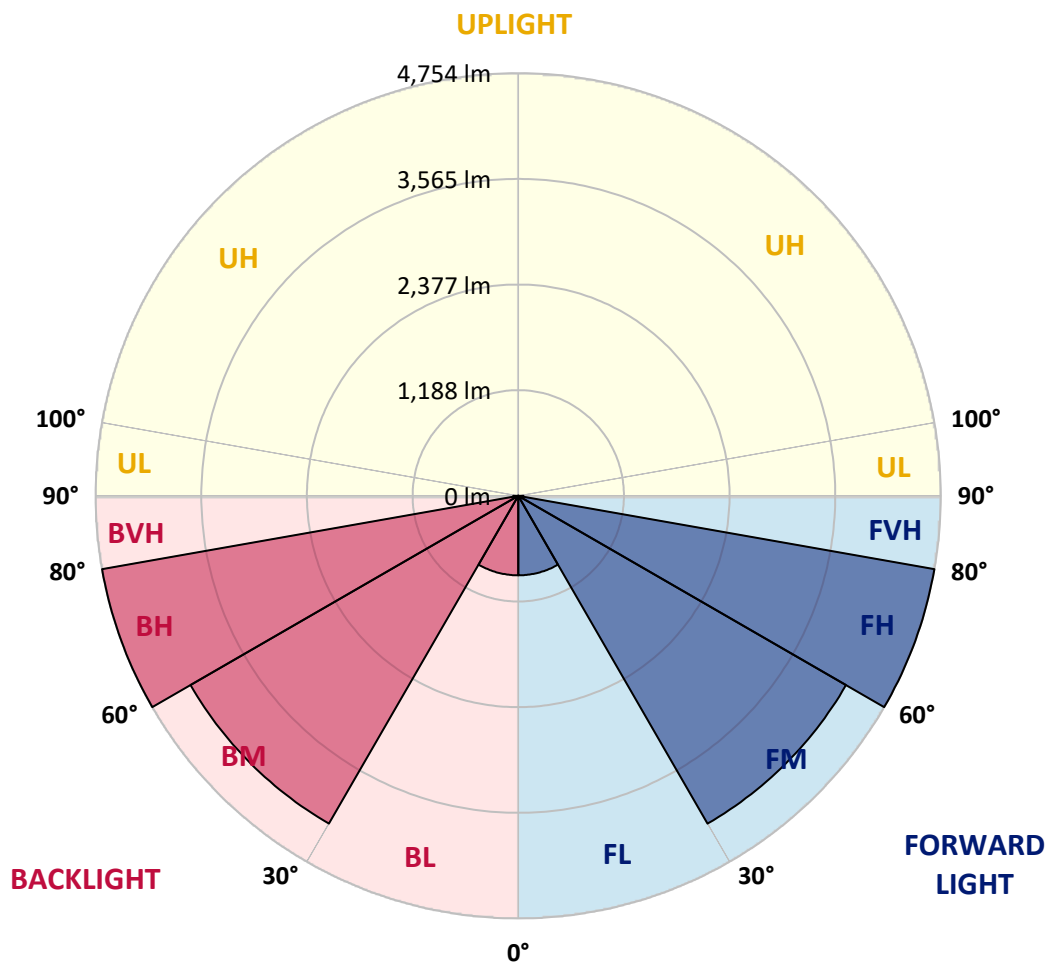
REPORT NUMBER: P964457
 CATALOG NUMBER: NAV-SB3C-722-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	894.0	4.5			
FM (30°-60°)	4257.6	21.4			
FH (60°-80°)	4753.9	23.9			G2/5000
FVH (80°-90°)	57.1	0.3			G1/100
BL (0°-30°)	894.0	4.5	B2/1000		
BM (30°-60°)	4257.6	21.4	B3/5000		
BH (60°-80°)	4753.9	23.9	B4/5000		G2/5000
BVH (80°-90°)	57.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



REPORT NUMBER: P964457
 CATALOG NUMBER: NAV-SB3C-722-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1908.7	1908.7	1908.7	1908.7	1908.7	1908.7	1908.7	1908.7	1908.7	1908.7	1908.7
2.5°	1917.6	1919.6	1915.6	1913.6	1911.6	1908.7	1909.6	1914.6	1918.6	1917.6	1918.6
5°	1933.7	1935.6	1932.6	1931.6	1927.6	1926.6	1926.6	1931.6	1934.6	1932.6	1933.7
7.5°	1951.6	1954.6	1949.7	1948.6	1946.6	1944.6	1943.6	1948.6	1951.6	1951.6	1951.6
10°	1968.6	1971.6	1967.6	1964.6	1962.7	1962.7	1960.6	1964.6	1969.6	1968.6	1968.6
12.5°	1986.7	1988.6	1984.6	1982.7	1982.7	1985.6	1982.7	1984.6	1988.6	1986.7	1985.6
15°	2008.6	2009.6	2008.6	2011.7	2016.7	2026.6	2017.6	2015.7	2017.6	2012.7	2012.7
17.5°	2038.6	2040.7	2044.7	2051.6	2058.6	2076.6	2060.7	2055.6	2055.6	2045.7	2045.7
20°	2075.6	2078.7	2084.6	2096.6	2105.7	2122.7	2106.7	2099.7	2096.6	2083.6	2083.6
22.5°	2114.7	2119.7	2128.7	2144.7	2160.7	2176.7	2160.7	2148.7	2139.7	2122.7	2121.6
25°	2159.7	2165.7	2179.7	2205.7	2227.7	2250.7	2231.7	2207.7	2189.7	2165.7	2164.7
27.5°	2223.7	2230.7	2247.7	2279.7	2307.7	2327.8	2309.7	2278.7	2253.7	2224.7	2223.7
30°	2313.7	2320.7	2340.8	2374.7	2393.8	2406.8	2394.8	2370.7	2340.8	2307.7	2307.7
32.5°	2429.8	2438.8	2460.8	2492.8	2496.8	2498.7	2494.7	2482.8	2460.8	2420.7	2421.8
35°	2576.8	2586.8	2611.8	2637.8	2633.8	2637.8	2631.8	2627.8	2611.8	2565.8	2565.8
37.5°	2756.8	2768.8	2794.9	2814.9	2804.9	2799.9	2800.9	2801.9	2792.9	2741.9	2741.9
40°	2965.9	2981.9	3001.0	3022.0	3005.0	2989.9	3000.0	3008.0	3000.0	2947.9	2947.9
42.5°	3181.0	3204.0	3224.0	3254.1	3240.0	3221.1	3235.0	3244.0	3227.0	3171.0	3175.0
45°	3420.1	3442.1	3468.1	3513.1	3503.1	3483.2	3503.1	3505.1	3476.1	3410.1	3417.0
47.5°	3667.1	3690.2	3729.2	3789.2	3785.2	3763.2	3789.2	3775.2	3738.2	3659.1	3654.1
50°	3901.3	3933.2	3993.3	4077.2	4085.3	4058.3	4093.3	4066.3	4004.3	3905.2	3903.2
52.5°	4121.3	4155.3	4250.4	4364.3	4393.4	4358.4	4405.4	4358.4	4265.3	4138.3	4126.3
55°	4352.4	4390.4	4503.4	4652.5	4710.5	4684.5	4728.5	4657.5	4525.5	4371.4	4350.4
57.5°	4624.5	4647.5	4782.5	4959.6	5057.7	5063.6	5083.6	4963.6	4803.6	4628.5	4604.5
60°	4919.6	4951.6	5098.7	5310.7	5465.7	5515.7	5494.7	5316.7	5130.6	4929.5	4897.6
62.5°	5297.7	5332.7	5508.8	5762.9	6007.9	6132.0	6050.0	5791.9	5561.8	5320.7	5278.6
65°	5610.7	5649.8	5967.9	6421.0	6867.2	7116.3	6910.2	6435.1	6021.0	5680.8	5624.8
67.5°	5383.7	5431.7	5930.9	6763.2	7872.5	8615.7	7910.5	6865.1	6054.0	5592.8	5523.7
70°	4705.5	4750.5	5332.7	6350.0	8155.6	9784.1	8325.7	6537.0	5351.7	4835.5	4766.6
72.5°	3124.0	3269.0	3858.2	5078.6	7282.3	9053.9	7354.4	4975.6	3579.1	3117.0	3016.0
75°	1036.4	1152.4	1554.5	2632.8	4877.6	6771.2	4643.5	2329.7	1231.4	886.3	838.2
77.5°	261.1	301.1	415.1	753.3	1945.7	3855.2	1751.5	615.2	335.1	234.1	209.1
80°	127.0	140.0	200.1	251.1	487.2	1225.4	457.2	236.1	158.1	122.1	112.0
82.5°	70.0	71.0	113.1	142.1	181.0	317.1	188.1	138.1	91.0	74.0	74.0
85°	43.0	42.0	60.1	76.1	76.1	113.1	90.0	76.1	52.0	46.0	48.0
87.5°	17.0	17.0	22.0	24.0	21.0	29.0	23.0	25.0	20.0	19.0	20.0
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)