

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: P963404

Luminaire Tested: **NAV-SB3A-722-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963404
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-722-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11942.2 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

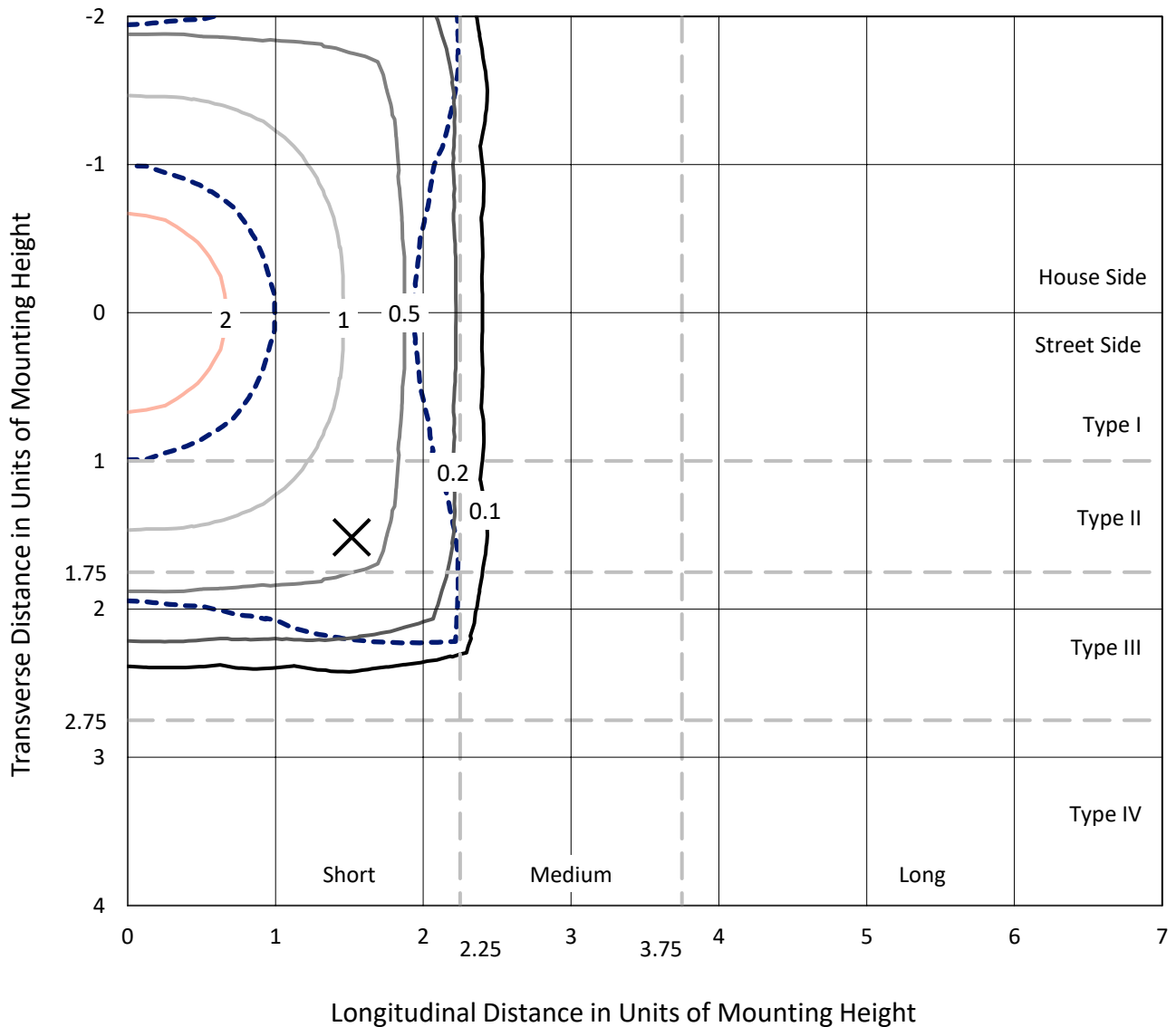
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

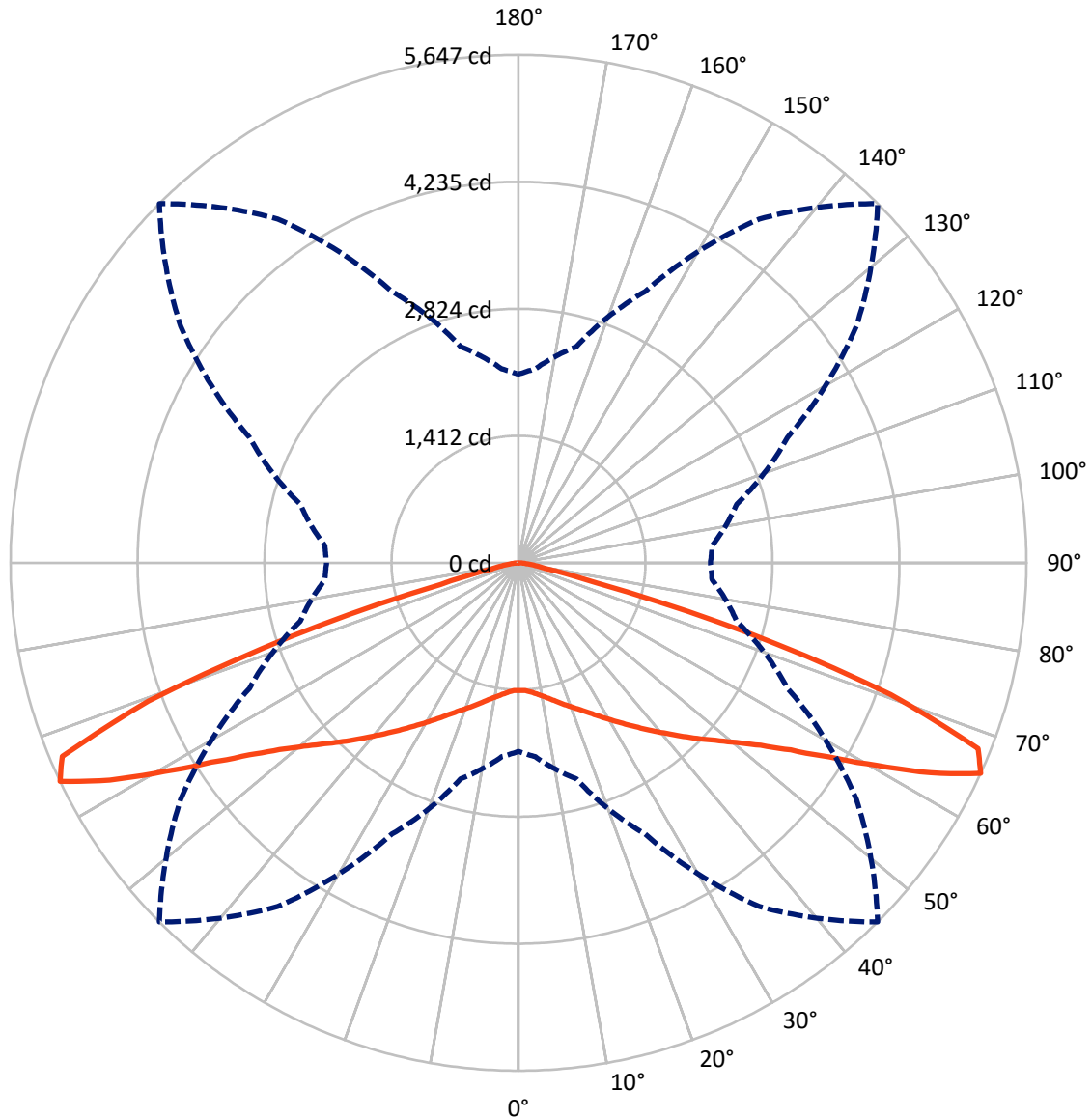
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5971.1	0.0	5971.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5971.1	0.0	5971.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	11942.2	0.0	11942.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.3	1.2
10°-20°	457.7	3.8
20°-30°	864.2	7.2
30°-40°	1415.0	11.8
40°-50°	2194.1	18.4
50°-60°	3241.1	27.1
60°-70°	3085.2	25.8
70°-80°	497.8	4.2
80°-90°	46.9	0.4
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°	11942.2	100.0
0°-180°	11942.2	100.0

Coefficient of Utilization



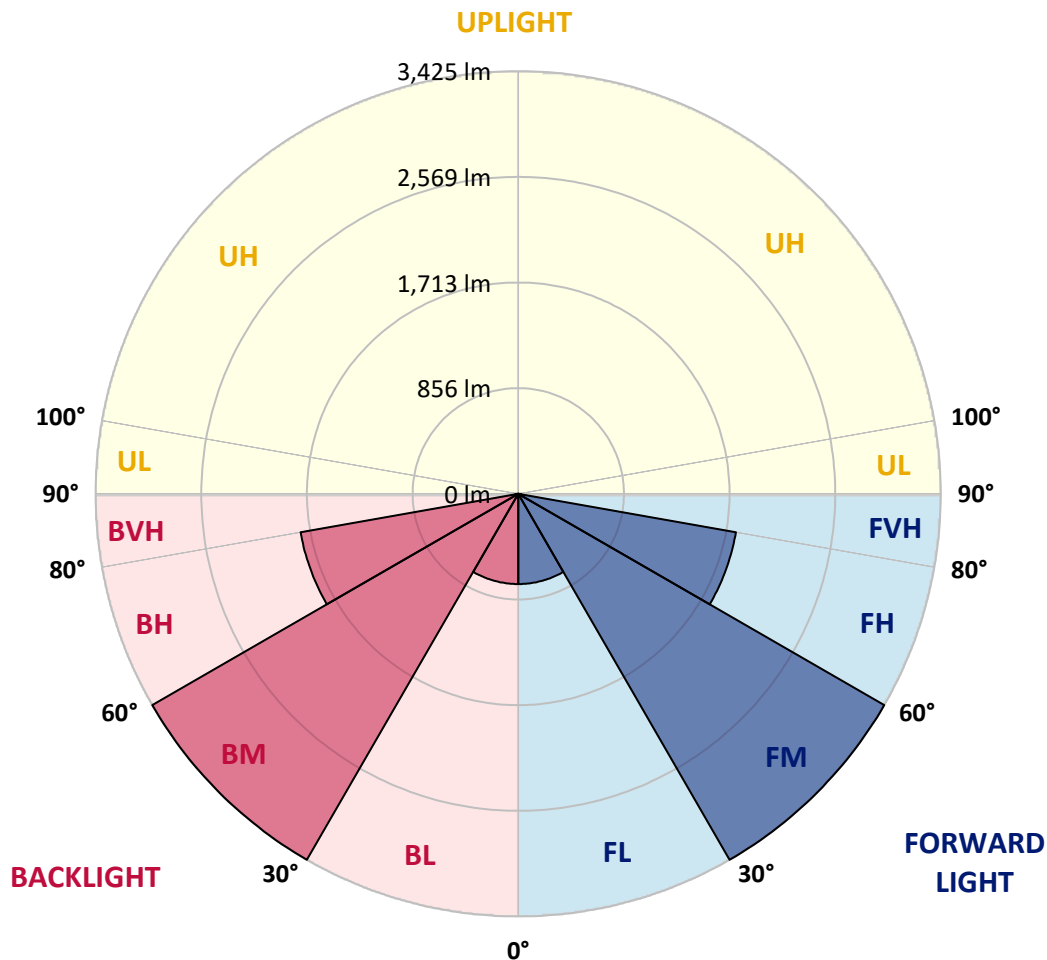
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	731.1	6.1			
FM (30°-60°)	3425.1	28.7			
FH (60°-80°)	1791.5	15.0			G1/1800
FVH (80°-90°)	23.5	0.2			G1/100
BL (0°-30°)	731.1	6.1	B2/1000		
BM (30°-60°)	3425.1	28.7	B3/5000		
BH (60°-80°)	1791.5	15.0	B3/2500		G1/1800
BVH (80°-90°)	23.5	0.2			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°	1421.3	1421.3	1421.3	1421.3	1421.3	1421.3	1421.3	1421.3	1421.3	1421.3	1421.3
2.5°	1430.8	1426.1	1429.7	1426.6	1424.2	1421.9	1423.0	1427.2	1429.1	1429.7	1429.7
5°	1450.0	1445.9	1447.6	1447.6	1443.4	1442.2	1442.8	1445.9	1449.5	1449.5	1449.5
7.5°	1481.1	1476.9	1481.1	1478.8	1475.2	1473.9	1473.3	1475.8	1481.1	1481.1	1479.4
10°	1518.9	1514.1	1516.5	1515.4	1511.2	1509.3	1508.7	1512.3	1517.1	1516.5	1515.4
12.5°	1560.3	1554.8	1557.9	1554.3	1553.1	1551.2	1551.2	1550.7	1553.7	1551.2	1552.5
15°	1606.4	1602.8	1604.0	1601.6	1603.4	1602.2	1597.4	1595.0	1596.2	1592.6	1593.3
17.5°	1660.9	1652.5	1656.7	1655.6	1655.6	1657.9	1650.1	1647.2	1649.5	1645.9	1648.9
20°	1723.8	1715.4	1717.3	1714.8	1711.9	1714.2	1704.7	1707.0	1708.9	1706.4	1711.9
22.5°	1792.7	1782.0	1781.3	1782.6	1775.9	1776.5	1770.0	1775.9	1779.6	1772.9	1779.6
25°	1863.4	1852.1	1859.9	1856.9	1848.5	1850.2	1845.5	1851.5	1854.4	1846.0	1855.7
27.5°	1938.4	1930.6	1937.8	1939.5	1929.4	1936.5	1929.4	1934.8	1937.8	1925.2	1934.8
30°	2025.8	2018.0	2024.6	2029.4	2017.4	2028.8	2022.8	2026.4	2027.0	2012.1	2021.0
32.5°	2121.1	2109.1	2125.8	2128.3	2115.1	2128.9	2121.1	2125.8	2128.9	2108.5	2122.3
35°	2237.4	2222.3	2241.6	2238.5	2227.1	2238.5	2231.3	2238.5	2245.7	2221.2	2236.1
37.5°	2362.5	2346.9	2367.3	2362.0	2351.1	2358.9	2354.7	2359.5	2370.9	2344.6	2360.8
40°	2500.4	2481.2	2508.8	2499.2	2489.0	2487.8	2490.1	2493.2	2508.2	2478.8	2488.4
42.5°	2647.8	2627.4	2668.7	2653.7	2639.4	2629.8	2637.6	2643.6	2657.9	2625.0	2642.3
45°	2816.2	2792.8	2846.7	2828.7	2805.9	2786.2	2798.8	2807.8	2828.7	2789.1	2809.5
47.5°	3001.9	2975.5	3033.1	3027.6	2990.5	2947.4	2976.1	3001.9	3017.5	2969.5	2985.7
50°	3183.4	3163.0	3238.6	3245.1	3199.6	3139.1	3179.2	3218.2	3222.4	3159.5	3167.2
52.5°	3353.6	3333.2	3442.9	3484.2	3443.5	3371.5	3414.1	3453.6	3421.9	3340.4	3342.8
55°	3489.6	3472.8	3612.4	3719.1	3732.8	3673.6	3698.7	3697.5	3593.2	3468.1	3472.2
57.5°	3522.6	3520.2	3696.4	3922.3	4066.1	4073.2	4023.4	3896.4	3671.8	3503.3	3492.6
60°	3372.8	3387.7	3629.8	4028.2	4411.7	4571.1	4356.0	3993.5	3582.5	3348.8	3321.2
62.5°	2924.6	2964.1	3255.9	3898.9	4691.0	5144.0	4622.6	3846.1	3215.8	2910.8	2892.9
65°	2095.9	2164.8	2487.2	3327.3	4665.8	5647.2	4584.3	3300.3	2511.1	2159.5	2133.6
67.5°	950.9	1021.0	1294.8	2278.1	4055.8	5510.6	4046.3	2302.0	1359.6	1024.6	1009.6
70°	344.5	356.5	444.5	911.9	2592.0	4390.8	2702.9	918.5	472.7	379.9	375.0
72.5°	208.5	210.3	228.9	326.6	900.6	2665.7	938.9	337.3	233.7	207.4	210.9
75°	132.4	131.2	163.0	199.6	319.4	899.3	335.0	199.6	162.4	148.0	149.2
77.5°	95.2	98.3	116.8	149.2	201.3	304.9	197.7	142.6	116.8	95.8	97.7
80°	71.3	73.1	85.1	116.2	141.4	189.9	125.9	105.5	88.0	60.0	61.7
82.5°	51.6	51.6	55.8	84.5	86.3	102.5	68.3	74.3	58.1	42.5	42.5
85°	30.5	29.9	34.7	50.3	44.9	37.7	31.2	45.5	36.6	26.3	25.7
87.5°	10.8	11.4	10.8	14.3	12.0	10.1	9.6	12.6	10.1	9.0	8.4
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)