

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: P962071

Luminaire Tested: **NAV-SB2B-830-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962071
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-SB2B-830-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10868.1 lumens
Efficiency: N/A
Efficacy: 147.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

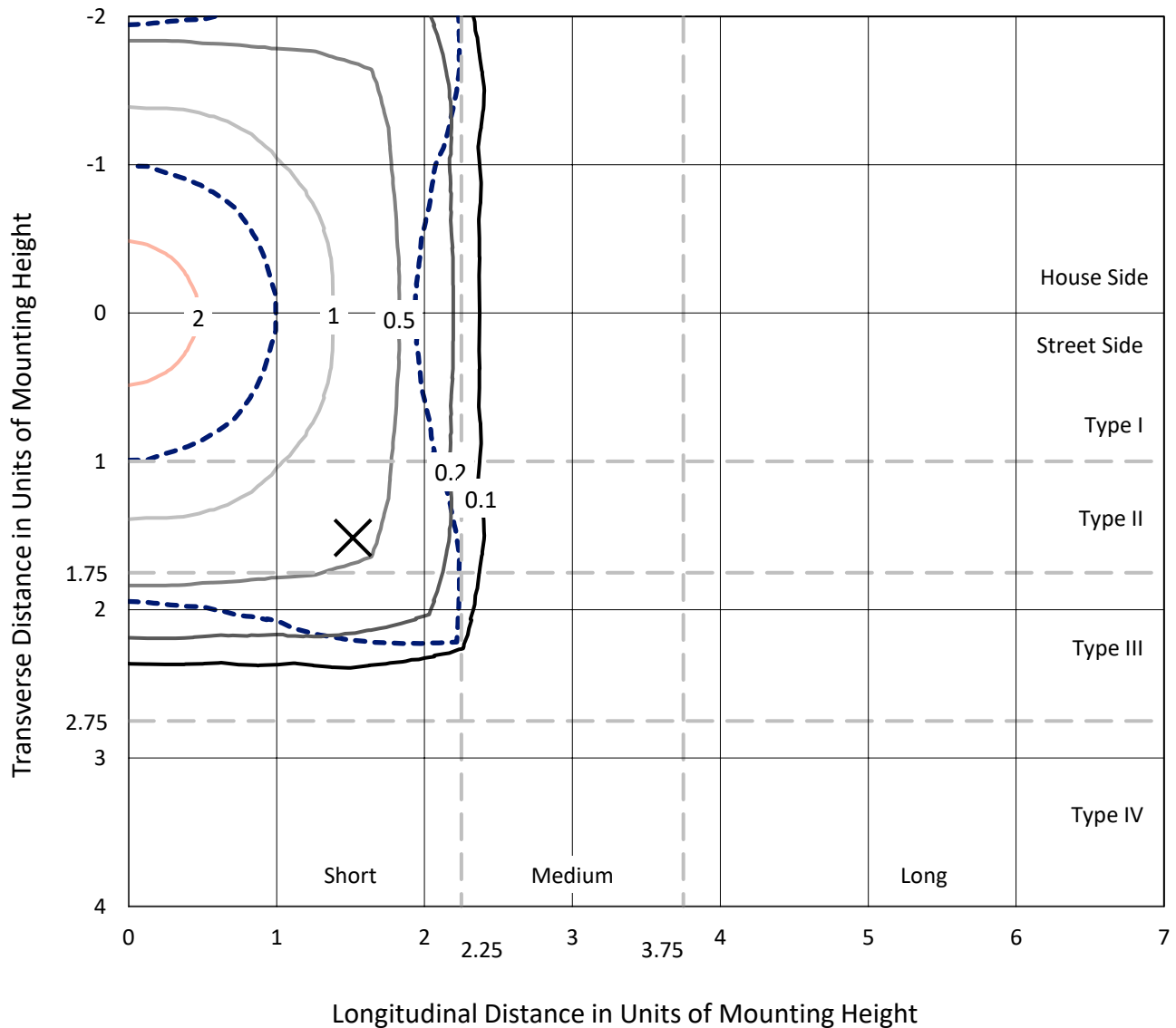
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

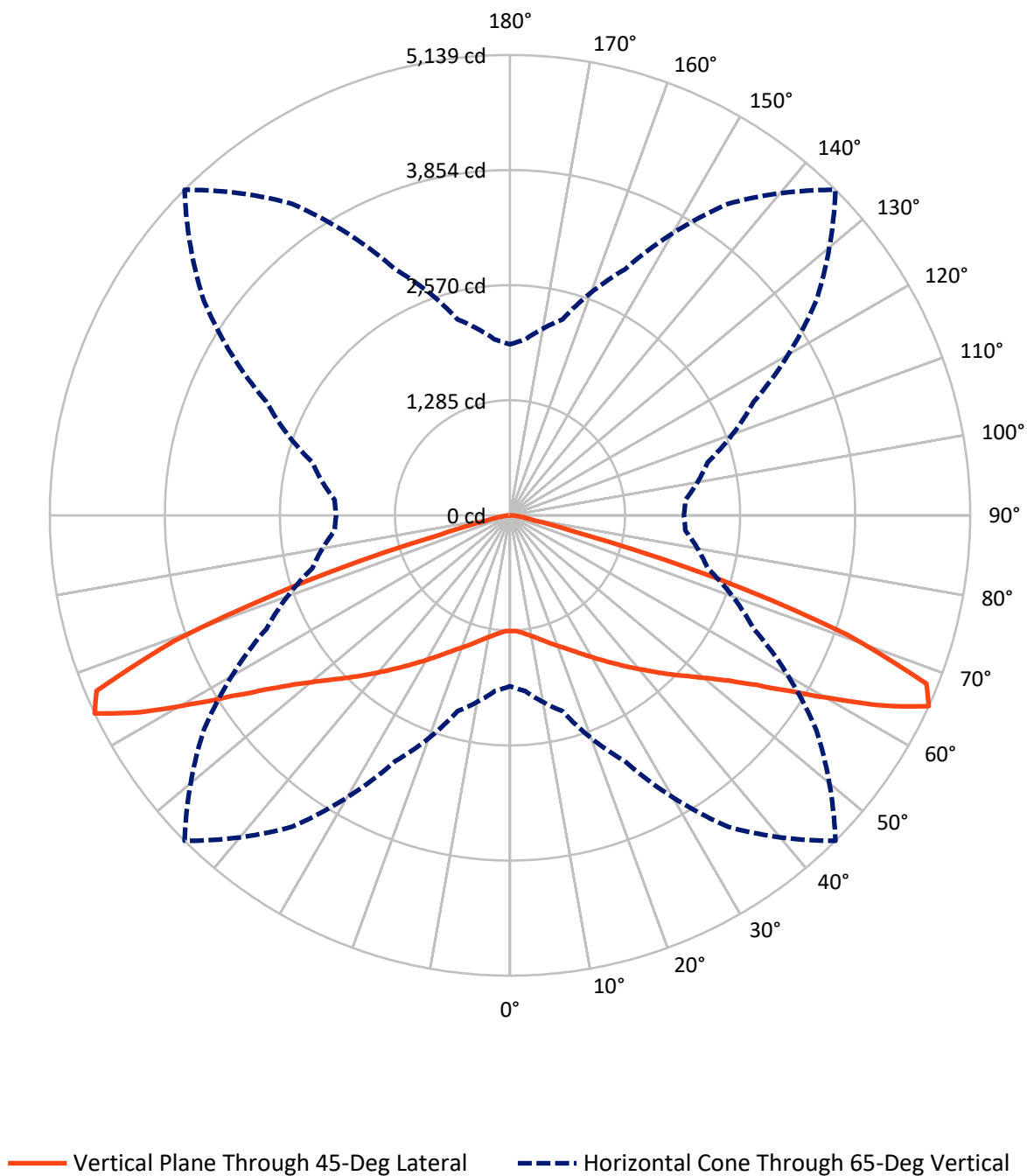
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5434.0	0.0	5434.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5434.0	0.0	5434.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10868.1	0.0	10868.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.6	1.2
10°-20°	416.5	3.8
20°-30°	786.4	7.2
30°-40°	1287.8	11.8
40°-50°	1996.7	18.4
50°-60°	2949.5	27.1
60°-70°	2807.7	25.8
70°-80°	453.1	4.2
80°-90°	42.7	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°	10868.1	100.0
0°-180°	10868.1	100.0

Coefficient of Utilization



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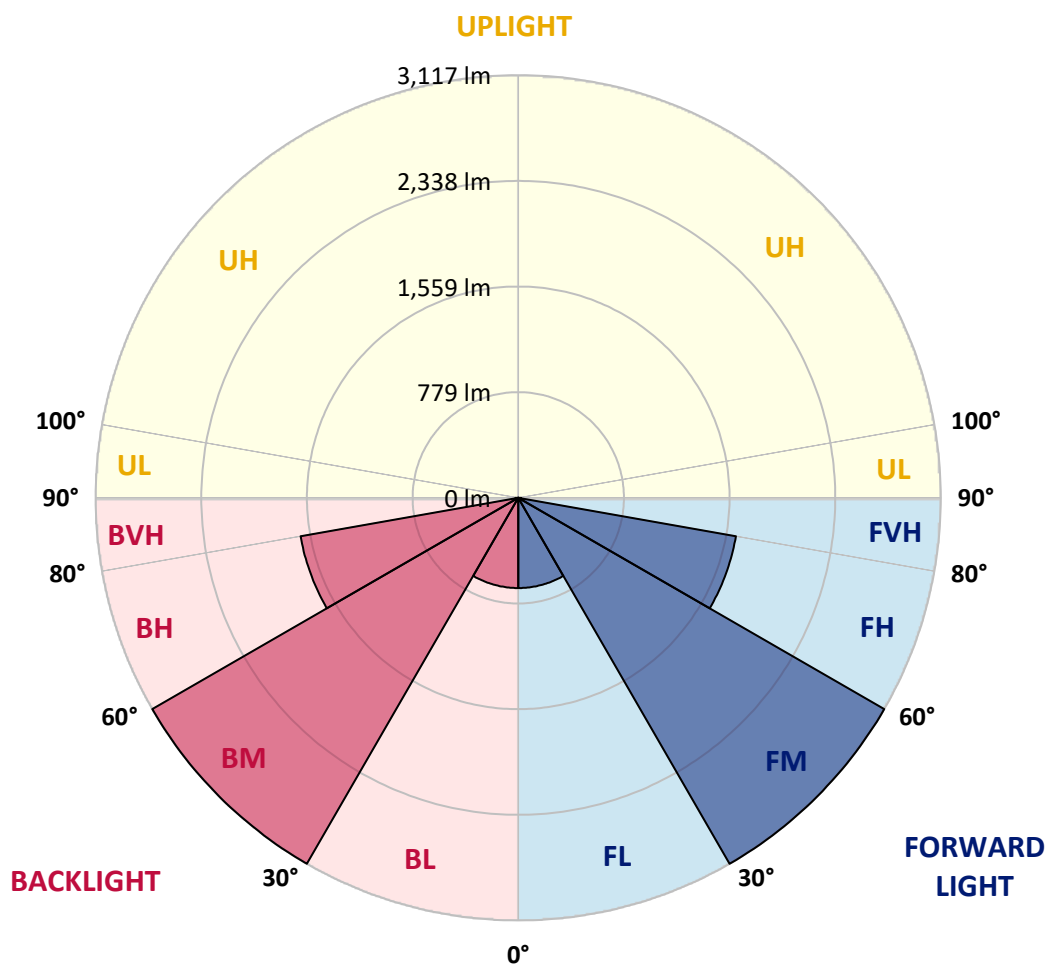
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	665.3	6.1			
FM	(30°-60°)	3117.0	28.7			
FH	(60°-80°)	1630.4	15.0			G1/1800
FVH	(80°-90°)	21.4	0.2			G1/100
BL	(0°-30°)	665.3	6.1	B2/1000		
BM	(30°-60°)	3117.0	28.7	B3/5000		
BH	(60°-80°)	1630.4	15.0	B3/2500		G1/1800
BVH	(80°-90°)	21.4	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°	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4
2.5°	1302.2	1297.8	1301.0	1298.4	1296.1	1294.0	1295.1	1298.9	1300.5	1301.0	1301.0
5°	1319.6	1315.8	1317.4	1317.4	1313.5	1312.5	1313.0	1315.8	1319.1	1319.1	1319.1
7.5°	1348.0	1344.1	1348.0	1345.7	1342.4	1341.4	1340.8	1343.1	1348.0	1348.0	1346.3
10°	1382.3	1377.9	1380.1	1379.0	1375.2	1373.6	1373.0	1376.3	1380.7	1380.1	1379.0
12.5°	1419.9	1415.0	1417.8	1414.5	1413.4	1411.7	1411.7	1411.2	1413.9	1411.7	1412.9
15°	1461.9	1458.7	1459.7	1457.6	1459.2	1458.1	1453.8	1451.5	1452.6	1449.4	1449.9
17.5°	1511.6	1503.9	1507.7	1506.6	1506.6	1508.8	1501.7	1499.0	1501.1	1497.9	1500.6
20°	1568.8	1561.2	1562.8	1560.6	1557.9	1560.0	1551.3	1553.5	1555.1	1553.0	1557.9
22.5°	1631.5	1621.7	1621.1	1622.2	1616.2	1616.7	1610.8	1616.2	1619.5	1613.5	1619.5
25°	1695.9	1685.5	1692.6	1689.8	1682.2	1683.9	1679.5	1684.9	1687.7	1680.0	1688.8
27.5°	1764.0	1756.8	1763.4	1765.0	1755.8	1762.4	1755.8	1760.7	1763.4	1752.0	1760.7
30°	1843.6	1836.5	1842.5	1846.8	1836.0	1846.3	1840.9	1844.2	1844.7	1831.1	1839.3
32.5°	1930.3	1919.4	1934.7	1936.8	1924.8	1937.4	1930.3	1934.7	1937.4	1918.8	1931.4
35°	2036.1	2022.4	2039.9	2037.2	2026.8	2037.2	2030.6	2037.2	2043.7	2021.4	2035.0
37.5°	2150.0	2135.9	2154.4	2149.5	2139.7	2146.8	2143.0	2147.3	2157.7	2133.6	2148.4
40°	2275.5	2258.0	2283.1	2274.4	2265.1	2264.0	2266.2	2268.9	2282.6	2255.8	2264.5
42.5°	2409.6	2391.0	2428.7	2415.1	2402.0	2393.3	2400.3	2405.8	2418.9	2388.9	2404.6
45°	2562.8	2541.6	2590.6	2574.3	2553.6	2535.5	2547.0	2555.2	2574.3	2538.3	2556.9
47.5°	2731.8	2707.8	2760.2	2755.3	2721.5	2682.2	2708.5	2731.8	2746.1	2702.4	2717.2
50°	2897.1	2878.5	2947.3	2953.2	2911.8	2856.8	2893.3	2928.7	2932.5	2875.2	2882.4
52.5°	3051.9	3033.4	3133.2	3170.8	3133.7	3068.3	3107.0	3143.0	3114.2	3039.9	3042.1
55°	3175.8	3160.5	3287.5	3384.6	3397.2	3343.1	3366.0	3365.0	3270.1	3156.1	3159.9
57.5°	3205.7	3203.5	3363.8	3569.5	3700.2	3706.8	3661.6	3546.0	3341.5	3188.3	3178.4
60°	3069.4	3083.0	3303.4	3665.9	4014.9	4160.0	3964.2	3634.3	3260.2	3047.6	3022.5
62.5°	2661.5	2697.5	2963.1	3548.1	4269.0	4681.3	4206.8	3500.2	2926.6	2649.0	2632.6
65°	1907.4	1970.2	2263.5	3028.0	4246.1	5139.2	4172.0	3003.5	2285.2	1965.2	1941.8
67.5°	865.4	929.2	1178.3	2073.2	3691.0	5014.9	3682.3	2095.0	1237.3	932.4	918.8
70°	313.5	324.4	404.6	829.9	2358.9	3995.9	2459.8	835.9	430.2	345.7	341.3
72.5°	189.7	191.4	208.3	297.1	819.6	2426.0	854.4	307.0	212.7	188.7	192.0
75°	120.5	119.4	148.3	181.6	290.6	818.5	304.8	181.6	147.8	134.7	135.8
77.5°	86.7	89.4	106.3	135.8	183.2	277.6	180.0	129.8	106.3	87.2	88.9
80°	64.9	66.5	77.4	105.8	128.6	172.8	114.5	95.9	80.2	54.5	56.2
82.5°	46.9	46.9	50.7	76.9	78.5	93.3	62.1	67.6	52.9	38.7	38.7
85°	27.8	27.3	31.7	45.8	40.9	34.3	28.4	41.4	33.3	24.0	23.5
87.5°	9.8	10.4	9.8	13.1	10.9	9.2	8.7	11.5	9.2	8.2	7.6
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)