

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: P961823

Luminaire Tested: **NAV-SB2B-722-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961823
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-722-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9991.7 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

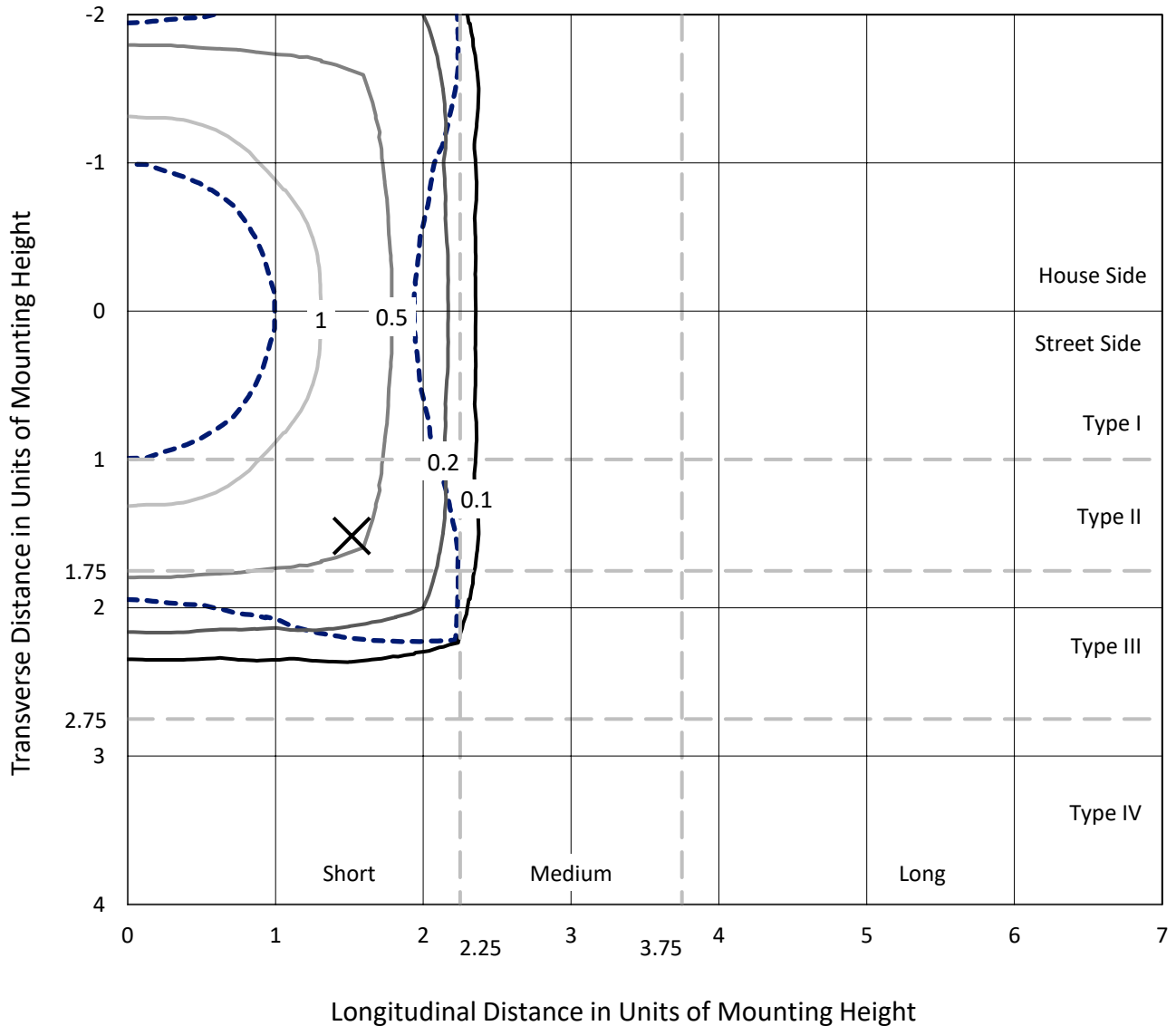
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

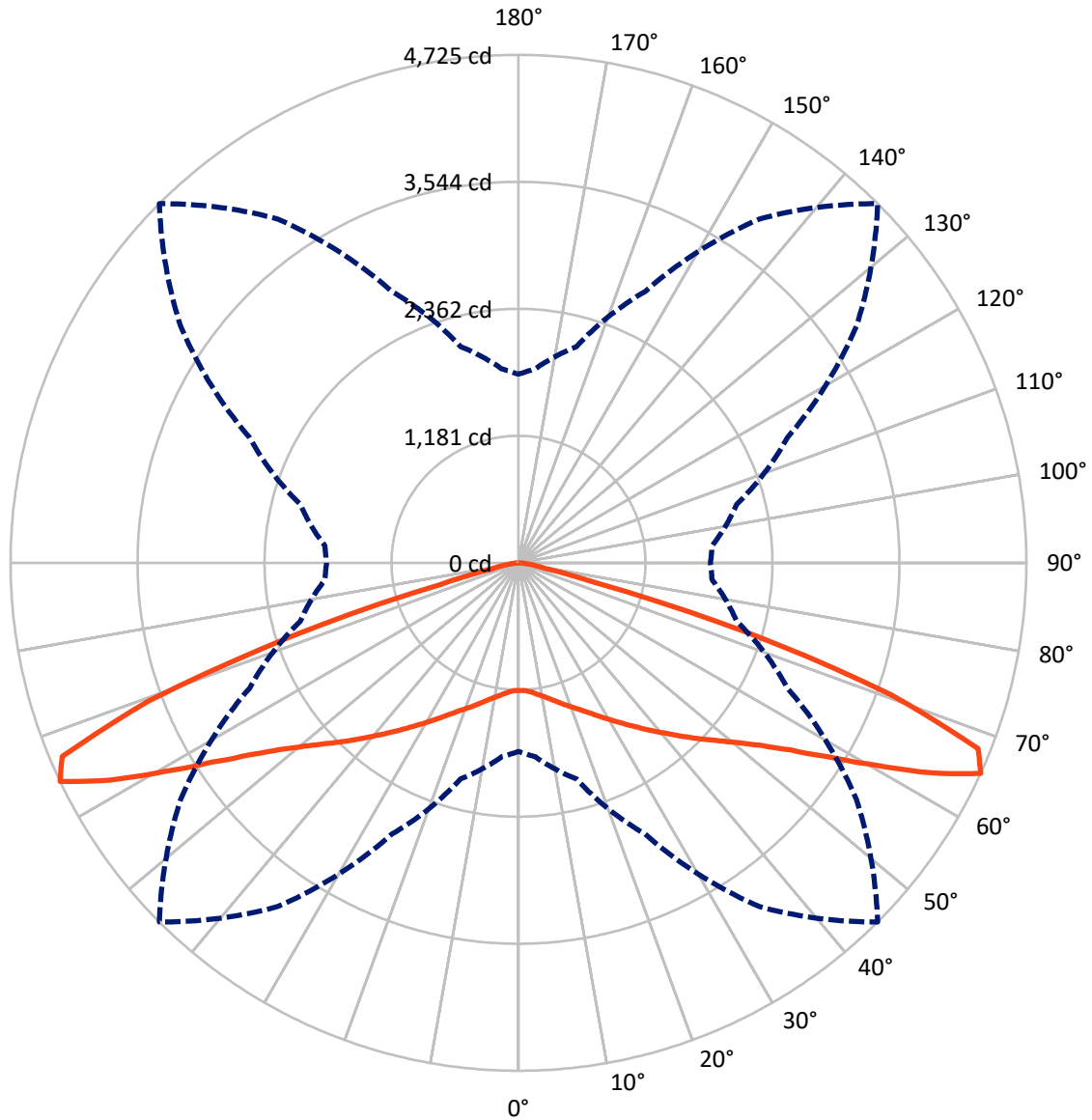
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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	4995.9	0.0	4995.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4995.9	0.0	4995.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	9991.7	0.0	9991.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.4	1.2
10°-20°	382.9	3.8
20°-30°	723.0	7.2
30°-40°	1183.9	11.8
40°-50°	1835.7	18.4
50°-60°	2711.7	27.1
60°-70°	2581.3	25.8
70°-80°	416.5	4.2
80°-90°	39.3	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°	9991.7	100.0
0°-180°	9991.7	100.0

Coefficient of Utilization



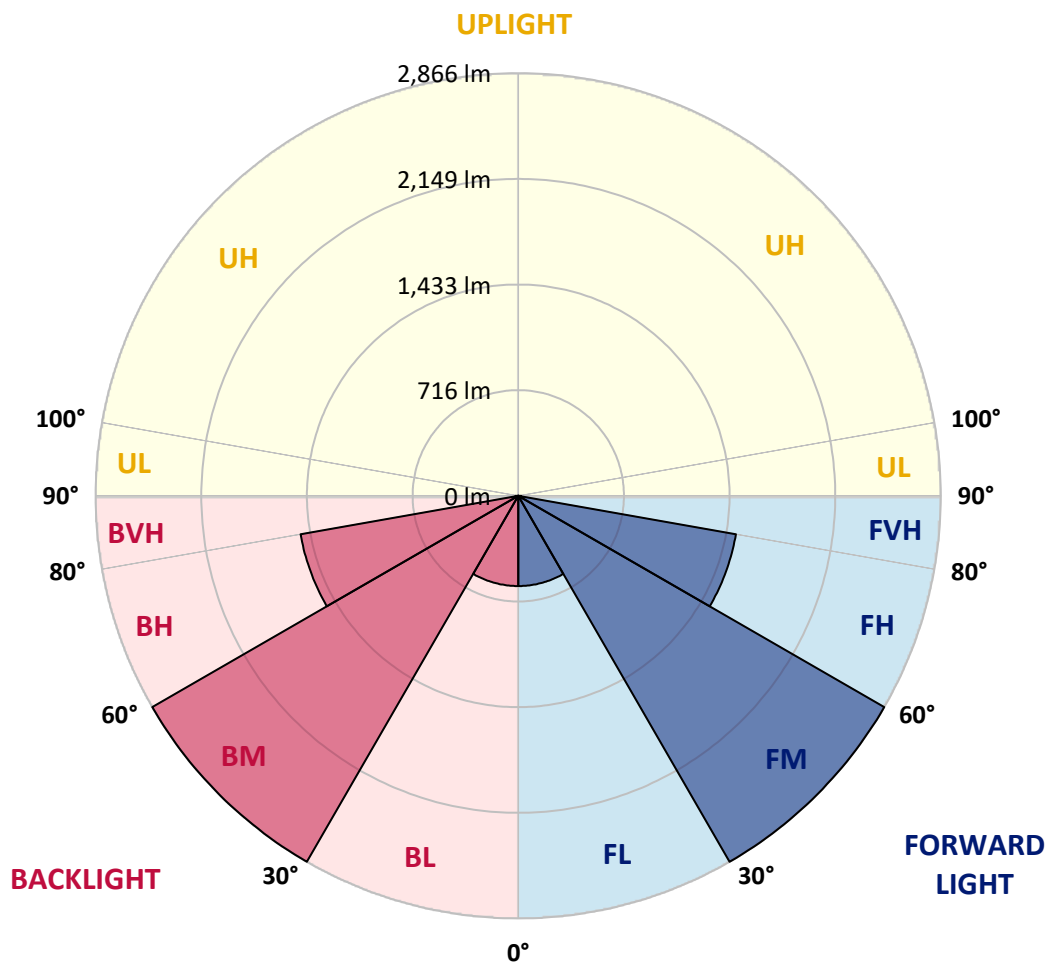
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	611.7	6.1			
FM (30°-60°)	2865.7	28.7			
FH (60°-80°)	1498.9	15.0			G1/1800
FVH (80°-90°)	19.6	0.2			G1/100
BL (0°-30°)	611.7	6.1	B2/1000		
BM (30°-60°)	2865.7	28.7	B3/5000		
BH (60°-80°)	1498.9	15.0	B3/2500		G1/1800
BVH (80°-90°)	19.6	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°	1189.1	1189.1	1189.1	1189.1	1189.1	1189.1	1189.1	1189.1	1189.1	1189.1	1189.1
2.5°	1197.1	1193.1	1196.2	1193.6	1191.7	1189.6	1190.6	1194.1	1195.7	1196.2	1196.2
5°	1213.2	1209.7	1211.1	1211.1	1207.7	1206.6	1207.1	1209.7	1212.7	1212.7	1212.7
7.5°	1239.2	1235.7	1239.2	1237.3	1234.2	1233.2	1232.8	1234.7	1239.2	1239.2	1237.8
10°	1270.8	1266.8	1268.8	1267.8	1264.3	1262.8	1262.3	1265.4	1269.4	1268.8	1267.8
12.5°	1305.4	1300.9	1303.4	1300.4	1299.4	1297.9	1297.9	1297.4	1299.9	1297.9	1298.9
15°	1344.0	1341.0	1342.0	1340.0	1341.5	1340.5	1336.5	1334.4	1335.5	1332.5	1333.0
17.5°	1389.6	1382.6	1386.1	1385.1	1385.1	1387.1	1380.6	1378.1	1380.2	1377.1	1379.6
20°	1442.3	1435.3	1436.7	1434.8	1432.2	1434.3	1426.2	1428.2	1429.8	1427.7	1432.2
22.5°	1499.9	1490.9	1490.4	1491.4	1485.8	1486.4	1480.9	1485.8	1488.9	1483.4	1488.9
25°	1559.1	1549.6	1556.1	1553.6	1546.5	1548.1	1544.1	1549.1	1551.5	1544.6	1552.6
27.5°	1621.8	1615.2	1621.2	1622.8	1614.3	1620.2	1614.3	1618.8	1621.2	1610.7	1618.8
30°	1694.9	1688.4	1693.9	1697.9	1687.9	1697.4	1692.5	1695.5	1696.0	1683.4	1690.9
32.5°	1774.7	1764.6	1778.7	1780.6	1769.7	1781.1	1774.7	1778.7	1781.1	1764.1	1775.6
35°	1871.9	1859.4	1875.4	1872.9	1863.3	1872.9	1866.9	1872.9	1878.9	1858.3	1870.9
37.5°	1976.7	1963.6	1980.7	1976.2	1967.2	1973.6	1970.2	1974.2	1983.7	1961.6	1975.2
40°	2092.0	2075.9	2099.0	2091.0	2082.5	2081.5	2083.4	2086.0	2098.5	2073.9	2082.0
42.5°	2215.3	2198.2	2232.9	2220.4	2208.3	2200.3	2206.8	2211.7	2223.8	2196.3	2210.8
45°	2356.2	2336.6	2381.7	2366.7	2347.7	2331.1	2341.6	2349.2	2366.7	2333.6	2350.6
47.5°	2511.6	2489.5	2537.6	2533.1	2502.0	2465.9	2490.0	2511.6	2524.6	2484.5	2498.0
50°	2663.5	2646.4	2709.6	2715.1	2677.0	2626.4	2660.0	2692.6	2696.1	2643.4	2649.9
52.5°	2805.8	2788.8	2880.6	2915.1	2881.1	2820.9	2856.5	2889.6	2863.0	2794.8	2796.8
55°	2919.6	2905.6	3022.4	3111.7	3123.2	3073.6	3094.6	3093.6	3006.3	2901.6	2905.1
57.5°	2947.2	2945.2	3092.6	3281.6	3401.9	3407.9	3366.3	3260.0	3072.0	2931.2	2922.2
60°	2821.9	2834.4	3037.0	3370.3	3691.1	3824.5	3644.5	3341.3	2997.3	2801.8	2778.8
62.5°	2446.9	2480.0	2724.1	3262.1	3924.7	4303.8	3867.6	3217.9	2690.5	2435.4	2420.3
65°	1753.6	1811.3	2081.0	2783.8	3903.7	4724.8	3835.6	2761.2	2101.0	1806.8	1785.1
67.5°	795.6	854.2	1083.3	1906.0	3393.4	4610.6	3385.4	1926.1	1137.4	857.2	844.7
70°	288.2	298.3	372.0	763.0	2168.7	3673.6	2261.5	768.5	395.5	317.9	313.9
72.5°	174.5	176.0	191.5	273.3	753.5	2230.3	785.6	282.3	195.5	173.4	176.5
75°	110.8	109.8	136.3	167.0	267.2	752.5	280.2	167.0	135.8	123.8	124.8
77.5°	79.7	82.2	97.8	124.8	168.4	255.1	165.4	119.3	97.8	80.3	81.7
80°	59.7	61.2	71.2	97.3	118.3	158.9	105.3	88.3	73.7	50.1	51.7
82.5°	43.2	43.2	46.6	70.7	72.2	85.7	57.2	62.1	48.6	35.6	35.6
85°	25.5	25.1	29.1	42.1	37.6	31.6	26.0	38.1	30.5	22.0	21.5
87.5°	9.0	9.5	9.0	12.0	10.0	8.5	8.0	10.6	8.5	7.5	7.0
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)