

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: P963651

Luminaire Tested: **NAV-SB3A-830-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963651
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-SB3A-830-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12981.6 lumens
Efficiency: N/A
Efficacy: 153.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

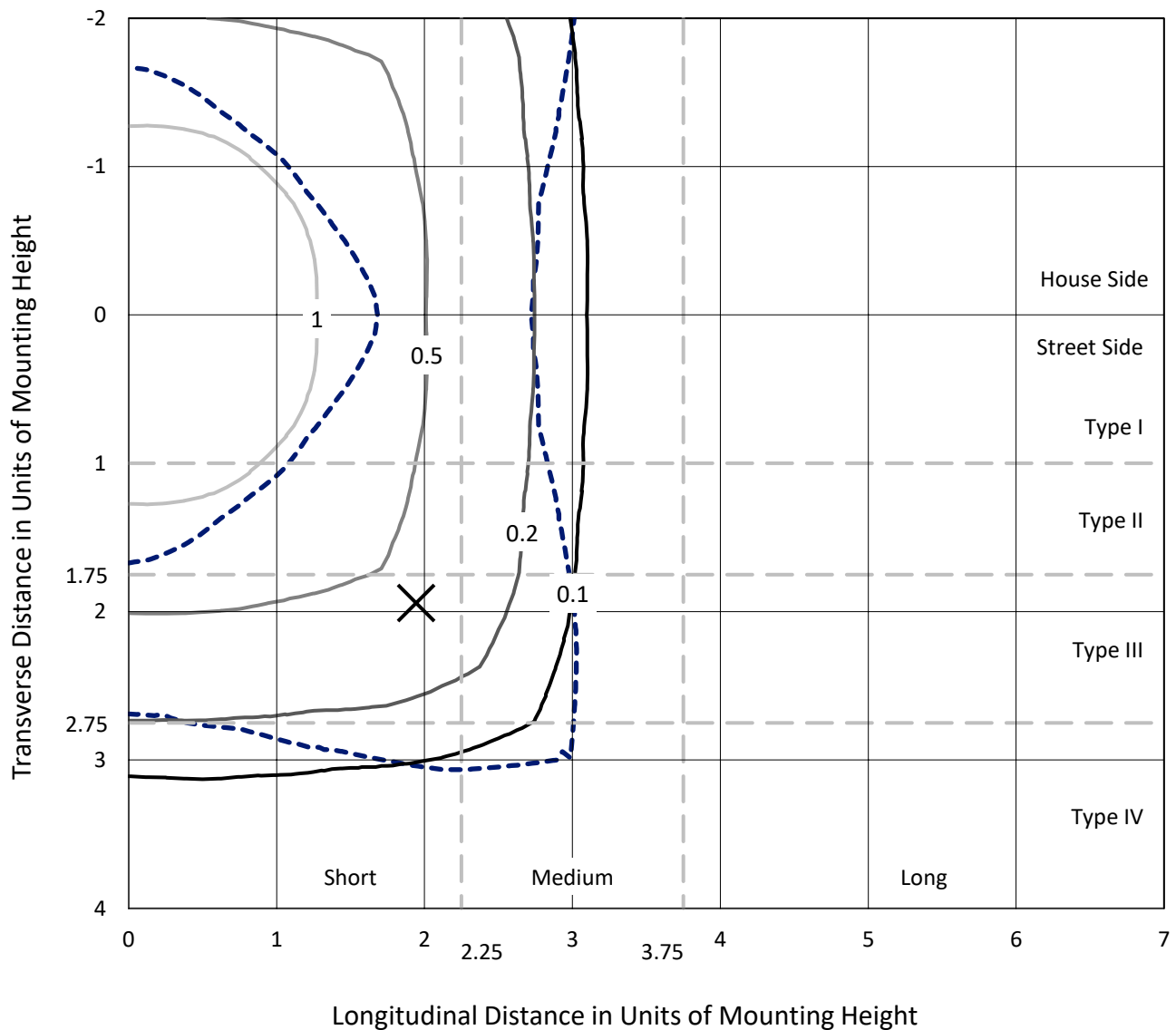
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

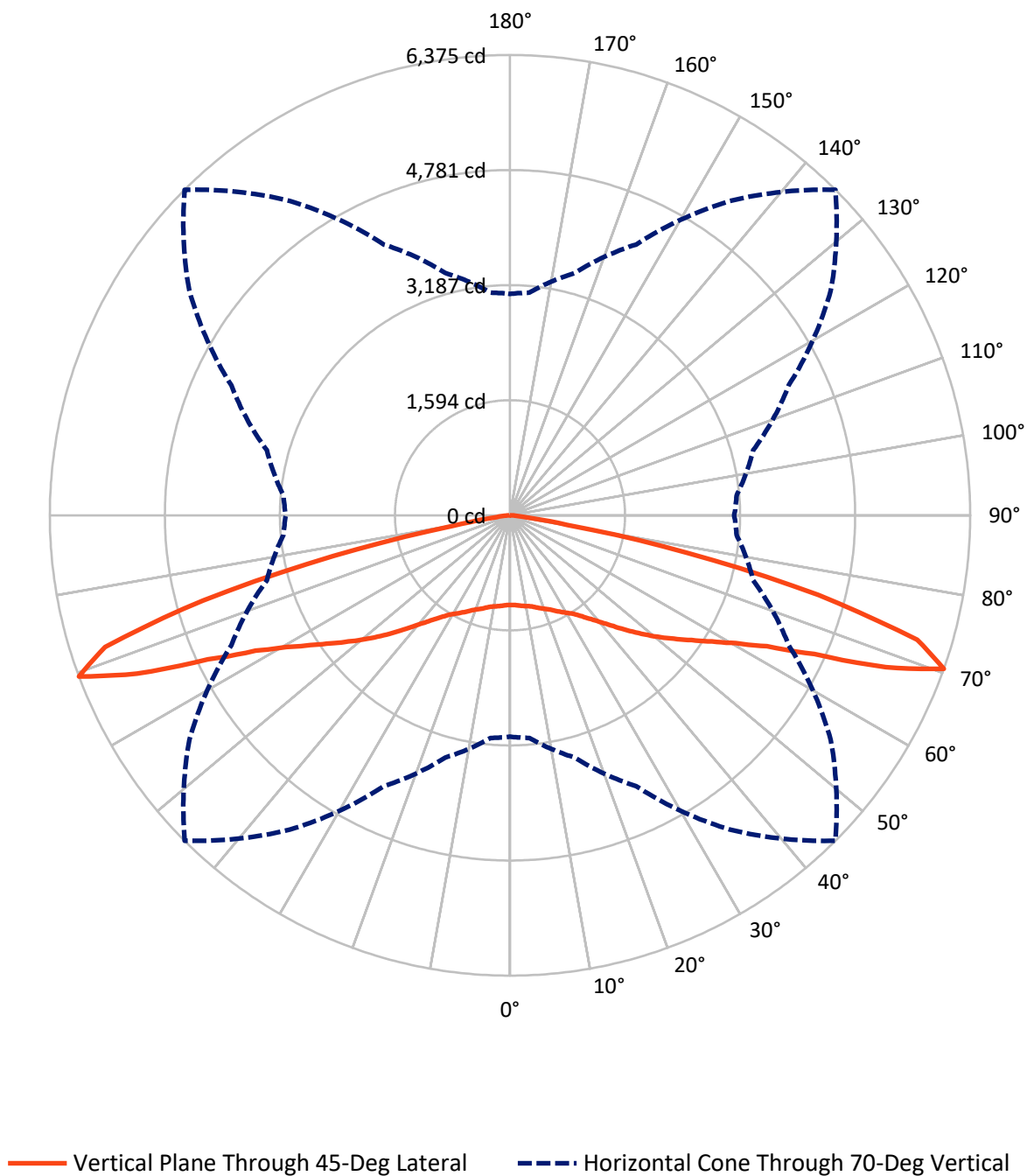
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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	6490.8	0.0	6490.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6490.8	0.0	6490.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	12981.6	0.0	12981.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.8	0.9
10°-20°	374.6	2.9
20°-30°	669.5	5.2
30°-40°	1085.2	8.4
40°-50°	1767.6	13.6
50°-60°	2695.0	20.8
60°-70°	4009.3	30.9
70°-80°	2185.2	16.8
80°-90°	74.4	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°	12981.6	100.0
0°-180°	12981.6	100.0

Coefficient of Utilization



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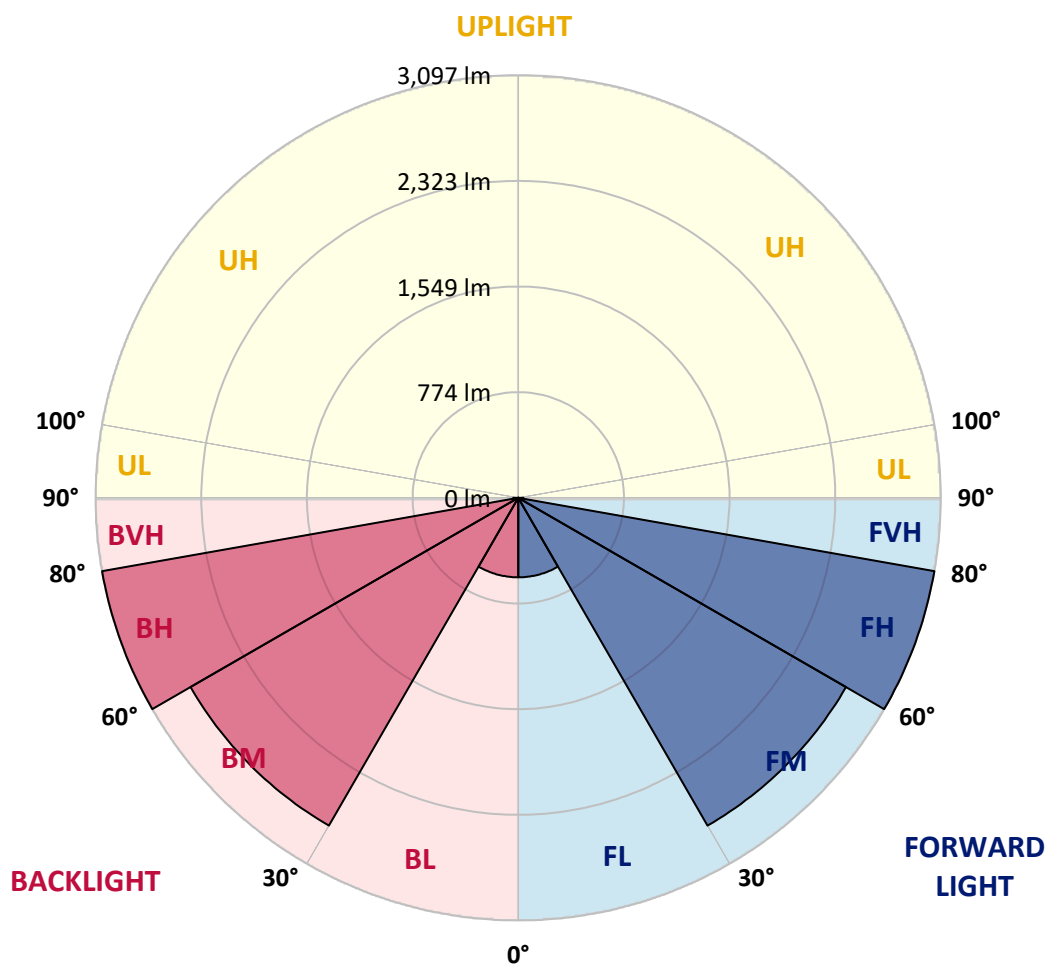
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	582.4	4.5			
FM	(30°-60°)	2773.9	21.4			
FH	(60°-80°)	3097.3	23.9			G2/5000
FVH	(80°-90°)	37.2	0.3			G1/100
BL	(0°-30°)	582.4	4.5	B2/1000		
BM	(30°-60°)	2773.9	21.4	B3/5000		
BH	(60°-80°)	3097.3	23.9	B4/5000		G2/5000
BVH	(80°-90°)	37.2	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1243.5	1243.5	1243.5	1243.5	1243.5	1243.5	1243.5	1243.5	1243.5	1243.5	1243.5
2.5°	1249.4	1250.7	1248.0	1246.8	1245.5	1243.5	1244.1	1247.4	1250.0	1249.4	1250.0
5°	1259.8	1261.1	1259.1	1258.5	1255.9	1255.2	1255.2	1258.5	1260.4	1259.1	1259.8
7.5°	1271.5	1273.5	1270.2	1269.6	1268.2	1267.0	1266.3	1269.6	1271.5	1271.5	1271.5
10°	1282.6	1284.5	1282.0	1280.0	1278.7	1278.7	1277.4	1280.0	1283.3	1282.6	1282.6
12.5°	1294.4	1295.6	1293.0	1291.7	1291.7	1293.7	1291.7	1293.0	1295.6	1294.4	1293.7
15°	1308.7	1309.3	1308.7	1310.7	1313.8	1320.4	1314.6	1313.2	1314.6	1311.3	1311.3
17.5°	1328.2	1329.5	1332.1	1336.7	1341.3	1353.0	1342.5	1339.3	1339.3	1332.8	1332.8
20°	1352.4	1354.3	1358.2	1366.0	1371.9	1382.9	1372.6	1368.0	1366.0	1357.5	1357.5
22.5°	1377.8	1381.0	1386.9	1397.3	1407.7	1418.2	1407.7	1399.9	1394.1	1382.9	1382.3
25°	1407.1	1411.0	1420.1	1437.0	1451.4	1466.4	1454.1	1438.4	1426.6	1411.0	1410.4
27.5°	1448.8	1453.3	1464.4	1485.3	1503.6	1516.6	1504.8	1484.6	1468.3	1449.5	1448.8
30°	1507.5	1512.0	1525.1	1547.2	1559.6	1568.0	1560.3	1544.6	1525.1	1503.6	1503.6
32.5°	1583.0	1589.0	1603.3	1624.1	1626.7	1628.0	1625.4	1617.6	1603.3	1577.2	1577.9
35°	1678.8	1685.4	1701.7	1718.6	1716.1	1718.6	1714.7	1712.1	1701.7	1671.7	1671.7
37.5°	1796.2	1804.0	1820.9	1833.9	1827.5	1824.2	1824.8	1825.5	1819.7	1786.4	1786.4
40°	1932.4	1942.8	1955.2	1968.9	1957.9	1948.0	1954.6	1959.8	1954.6	1920.6	1920.6
42.5°	2072.5	2087.5	2100.5	2120.1	2111.0	2098.6	2107.7	2113.5	2102.5	2066.0	2068.6
45°	2228.2	2242.6	2259.5	2288.9	2282.4	2269.4	2282.4	2283.7	2264.7	2221.8	2226.3
47.5°	2389.3	2404.2	2429.7	2468.7	2466.1	2451.8	2468.7	2459.6	2435.5	2384.0	2380.8
50°	2541.8	2562.6	2601.8	2656.5	2661.7	2644.1	2666.8	2649.3	2608.9	2544.4	2543.0
52.5°	2685.1	2707.3	2769.2	2843.6	2862.4	2839.6	2870.2	2839.6	2779.0	2696.3	2688.4
55°	2835.7	2860.5	2934.1	3031.2	3069.1	3052.0	3080.7	3034.5	2948.4	2848.1	2834.4
57.5°	3013.0	3028.0	3115.9	3231.3	3295.2	3299.1	3312.1	3233.9	3129.6	3015.5	3000.0
60°	3205.2	3226.1	3321.9	3460.1	3561.1	3593.6	3579.9	3464.0	3342.7	3211.7	3190.9
62.5°	3451.6	3474.3	3589.1	3754.7	3914.3	3995.1	3941.6	3773.5	3623.7	3466.6	3439.2
65°	3655.6	3681.0	3888.2	4183.4	4474.1	4636.4	4502.2	4192.6	3922.8	3701.2	3664.7
67.5°	3507.7	3538.9	3864.1	4406.4	5129.1	5613.4	5153.9	4472.8	3944.3	3643.9	3598.9
70°	3065.8	3095.1	3474.3	4137.2	5313.6	6374.6	5424.4	4259.1	3486.7	3150.4	3105.5
72.5°	2035.3	2129.8	2513.7	3308.8	4744.6	5898.9	4791.6	3241.8	2331.9	2030.8	1964.9
75°	675.2	750.8	1012.8	1715.3	3177.8	4411.6	3025.4	1517.9	802.3	577.5	546.1
77.5°	170.1	196.2	270.5	490.8	1267.6	2511.8	1141.1	400.8	218.3	152.5	136.2
80°	82.8	91.2	130.4	163.6	317.4	798.4	297.9	153.9	103.0	79.5	73.0
82.5°	45.6	46.2	73.6	92.6	118.0	206.6	122.5	89.9	59.3	48.3	48.3
85°	28.0	27.4	39.2	49.5	49.5	73.6	58.6	49.5	33.9	29.9	31.3
87.5°	11.1	11.1	14.3	15.7	13.7	18.9	15.0	16.3	13.0	12.4	13.0
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)