

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: P962597

Luminaire Tested: **NAV-SB2C-830-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962597
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-SB2C-830-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14445.3 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 100.9
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



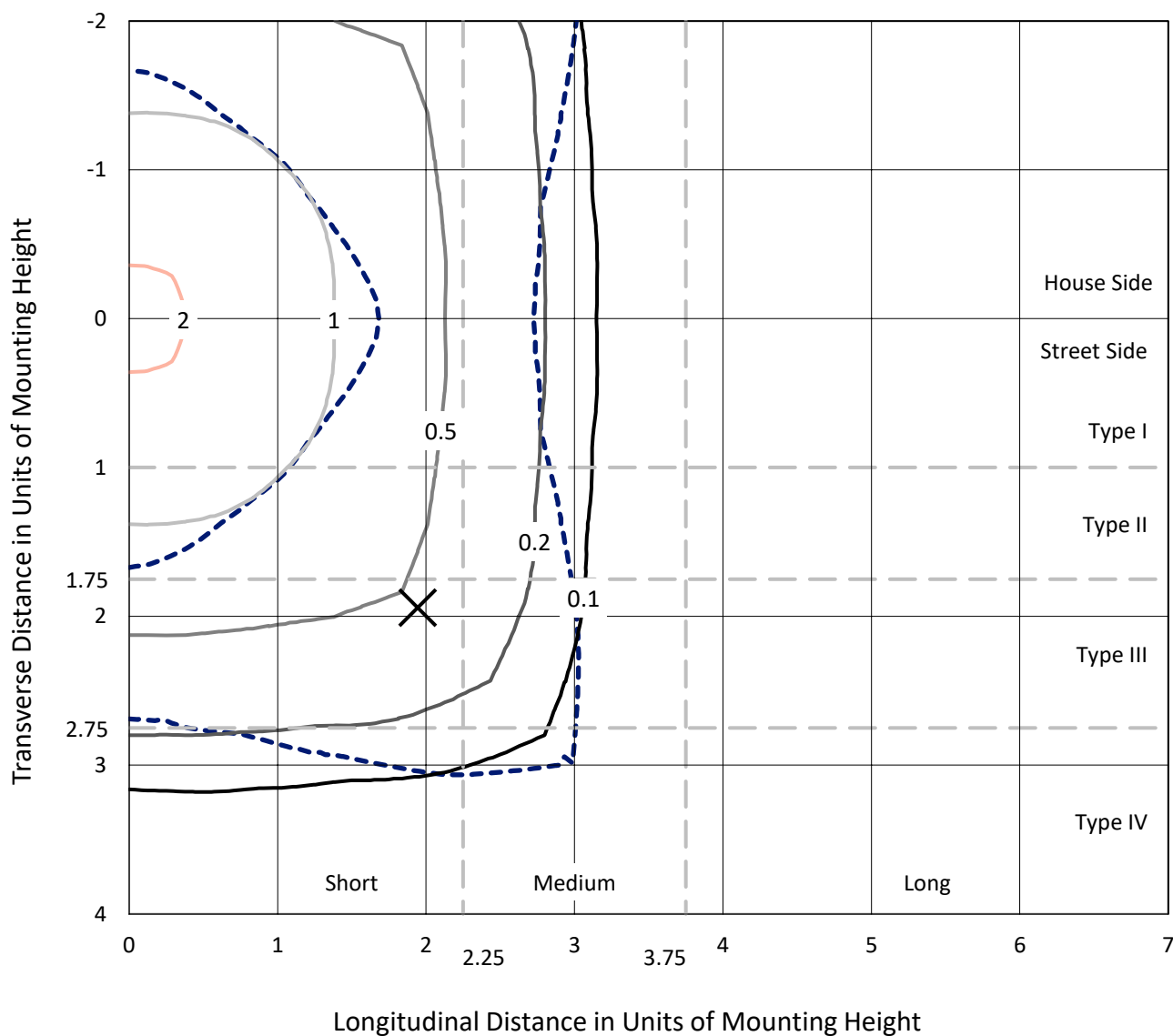
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

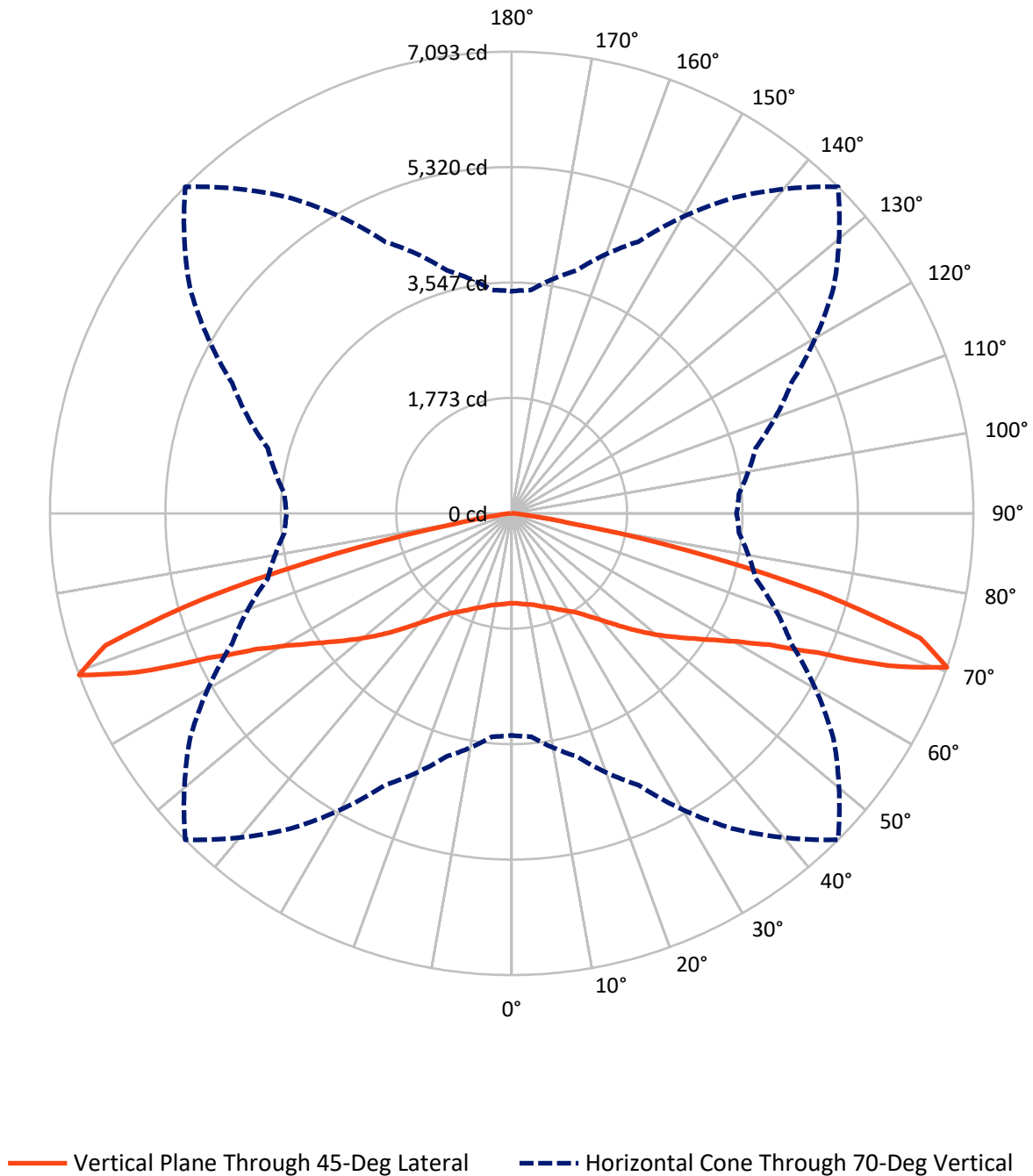


Based on 25 foot mounting height. Maximum calculated value = 2.2 fc

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	7222.7	0.0	7222.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7222.7	0.0	7222.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	14445.3	0.0	14445.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.4	0.9
10°-20°	416.8	2.9
20°-30°	744.9	5.2
30°-40°	1207.6	8.4
40°-50°	1966.9	13.6
50°-60°	2998.9	20.8
60°-70°	4461.4	30.9
70°-80°	2431.6	16.8
80°-90°	82.8	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°	14445.3	100.0
0°-180°	14445.3	100.0

Coefficient of Utilization



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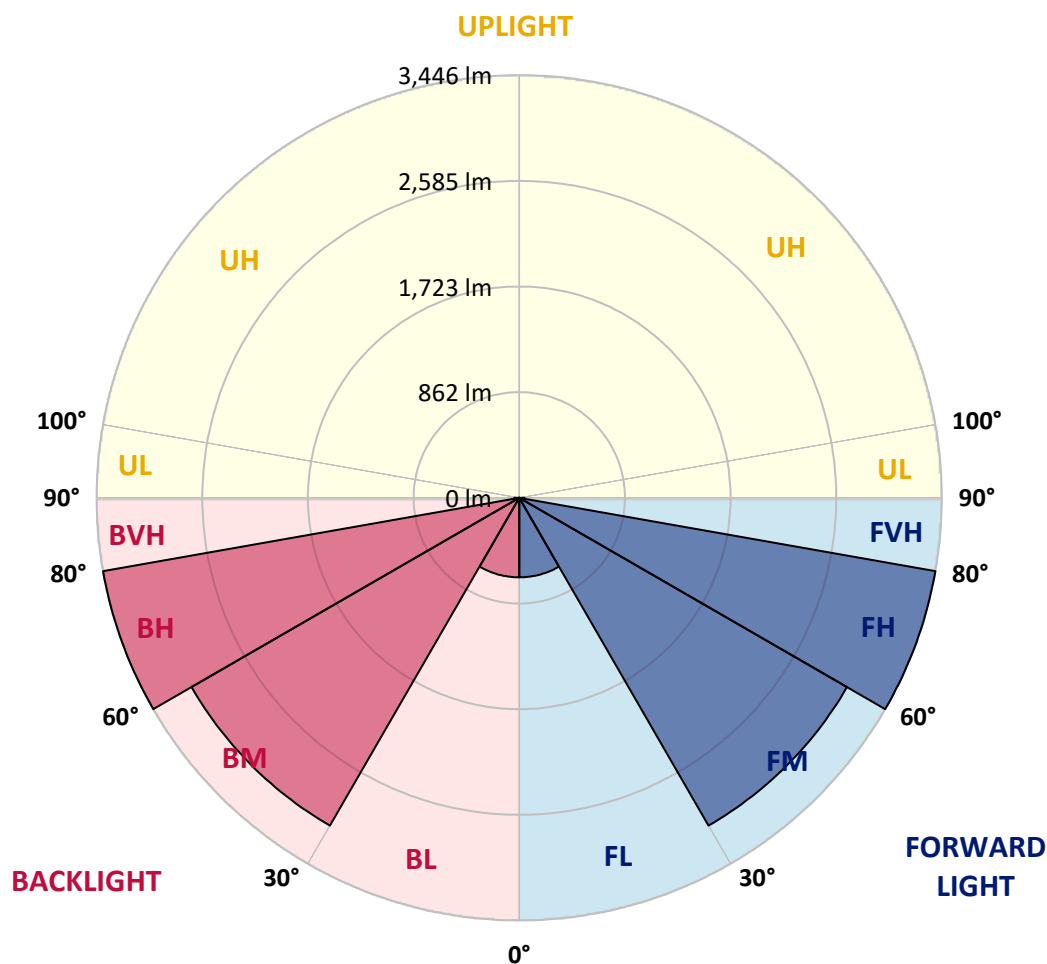
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	648.1	4.5			
FM	(30°-60°)	3086.7	21.4			
FH	(60°-80°)	3446.5	23.9			G2/5000
FVH	(80°-90°)	41.4	0.3			G1/100
BL	(0°-30°)	648.1	4.5	B2/1000		
BM	(30°-60°)	3086.7	21.4	B3/5000		
BH	(60°-80°)	3446.5	23.9	B4/5000		G2/5000
BVH	(80°-90°)	41.4	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°	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7
2.5°	1390.2	1391.6	1388.8	1387.3	1385.9	1383.7	1384.5	1388.1	1390.9	1390.2	1390.9
5°	1401.9	1403.3	1401.1	1400.4	1397.5	1396.8	1396.8	1400.4	1402.6	1401.1	1401.9
7.5°	1414.9	1417.1	1413.5	1412.8	1411.2	1409.8	1409.1	1412.8	1414.9	1414.9	1414.9
10°	1427.2	1429.4	1426.5	1424.3	1422.9	1422.9	1421.5	1424.3	1427.9	1427.2	1427.2
12.5°	1440.3	1441.8	1438.8	1437.4	1437.4	1439.5	1437.4	1438.8	1441.8	1440.3	1439.5
15°	1456.2	1456.9	1456.2	1458.4	1462.1	1469.3	1462.8	1461.3	1462.8	1459.1	1459.1
17.5°	1477.9	1479.5	1482.4	1487.4	1492.5	1505.5	1493.9	1490.4	1490.4	1483.1	1483.1
20°	1504.8	1507.0	1511.4	1520.1	1526.5	1538.9	1527.4	1522.2	1520.1	1510.6	1510.6
22.5°	1533.1	1536.8	1543.2	1554.8	1566.5	1578.1	1566.5	1557.8	1551.2	1538.9	1538.2
25°	1565.8	1570.1	1580.2	1599.1	1615.1	1631.7	1618.0	1600.5	1587.5	1570.1	1569.4
27.5°	1612.1	1617.2	1629.5	1652.8	1673.1	1687.6	1674.5	1652.0	1634.0	1612.8	1612.1
30°	1677.4	1682.5	1697.0	1721.7	1735.4	1744.9	1736.1	1718.7	1697.0	1673.1	1673.1
32.5°	1761.6	1768.1	1784.0	1807.3	1810.2	1811.6	1808.7	1800.0	1784.0	1755.0	1755.7
35°	1868.2	1875.4	1893.6	1912.4	1909.5	1912.4	1908.0	1905.2	1893.6	1860.2	1860.2
37.5°	1998.6	2007.4	2026.2	2040.8	2033.5	2029.9	2030.6	2031.3	2024.8	1987.8	1987.8
40°	2150.2	2161.8	2175.7	2190.8	2178.5	2167.7	2174.9	2180.7	2174.9	2137.2	2137.2
42.5°	2306.1	2322.9	2337.4	2359.1	2349.0	2335.2	2345.3	2351.9	2339.6	2299.0	2301.8
45°	2479.5	2495.5	2514.3	2546.9	2539.7	2525.2	2539.7	2541.2	2520.2	2472.3	2477.3
47.5°	2658.6	2675.4	2703.6	2747.1	2744.2	2728.2	2747.1	2737.0	2710.1	2652.8	2649.2
50°	2828.4	2851.5	2895.1	2956.0	2961.7	2942.2	2967.6	2948.0	2903.0	2831.3	2829.8
52.5°	2987.9	3012.6	3081.5	3164.1	3185.2	3159.8	3193.9	3159.8	3092.3	3000.2	2991.6
55°	3155.5	3182.9	3264.9	3373.0	3415.0	3396.2	3428.1	3376.7	3280.9	3169.2	3153.9
57.5°	3352.7	3369.4	3467.3	3595.6	3666.7	3671.0	3685.6	3598.6	3482.4	3355.5	3338.2
60°	3566.6	3589.9	3696.5	3850.2	3962.5	3998.8	3983.7	3854.5	3719.6	3573.9	3550.7
62.5°	3840.8	3866.1	3993.8	4178.0	4355.6	4445.5	4386.1	4199.0	4032.2	3857.4	3826.9
65°	4067.7	4096.0	4326.6	4655.1	4978.6	5159.2	5009.8	4665.3	4365.1	4118.6	4077.9
67.5°	3903.1	3937.9	4299.8	4903.2	5707.4	6246.2	5735.0	4977.2	4389.0	4054.7	4004.7
70°	3411.4	3444.1	3866.1	4603.7	5912.7	7093.3	6036.0	4739.3	3879.9	3505.7	3455.7
72.5°	2264.8	2370.0	2797.1	3681.9	5279.6	6563.9	5331.7	3607.2	2594.8	2259.8	2186.5
75°	751.3	835.5	1127.0	1908.8	3536.1	4909.0	3366.4	1689.0	892.8	642.6	607.7
77.5°	189.3	218.3	300.9	546.1	1410.5	2795.0	1269.9	446.0	242.9	169.7	151.6
80°	92.1	101.6	145.0	182.0	353.2	888.4	331.4	171.2	114.6	88.5	81.2
82.5°	50.7	51.5	82.0	103.0	131.3	229.9	136.3	100.0	66.0	53.7	53.7
85°	31.2	30.4	43.6	55.1	55.1	82.0	65.3	55.1	37.7	33.3	34.8
87.5°	12.3	12.3	16.0	17.4	15.3	21.0	16.7	18.1	14.6	13.7	14.6
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)