

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: P960490

Luminaire Tested: **NAV-SB1C-830-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960490
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-SB1C-830-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7230.3 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

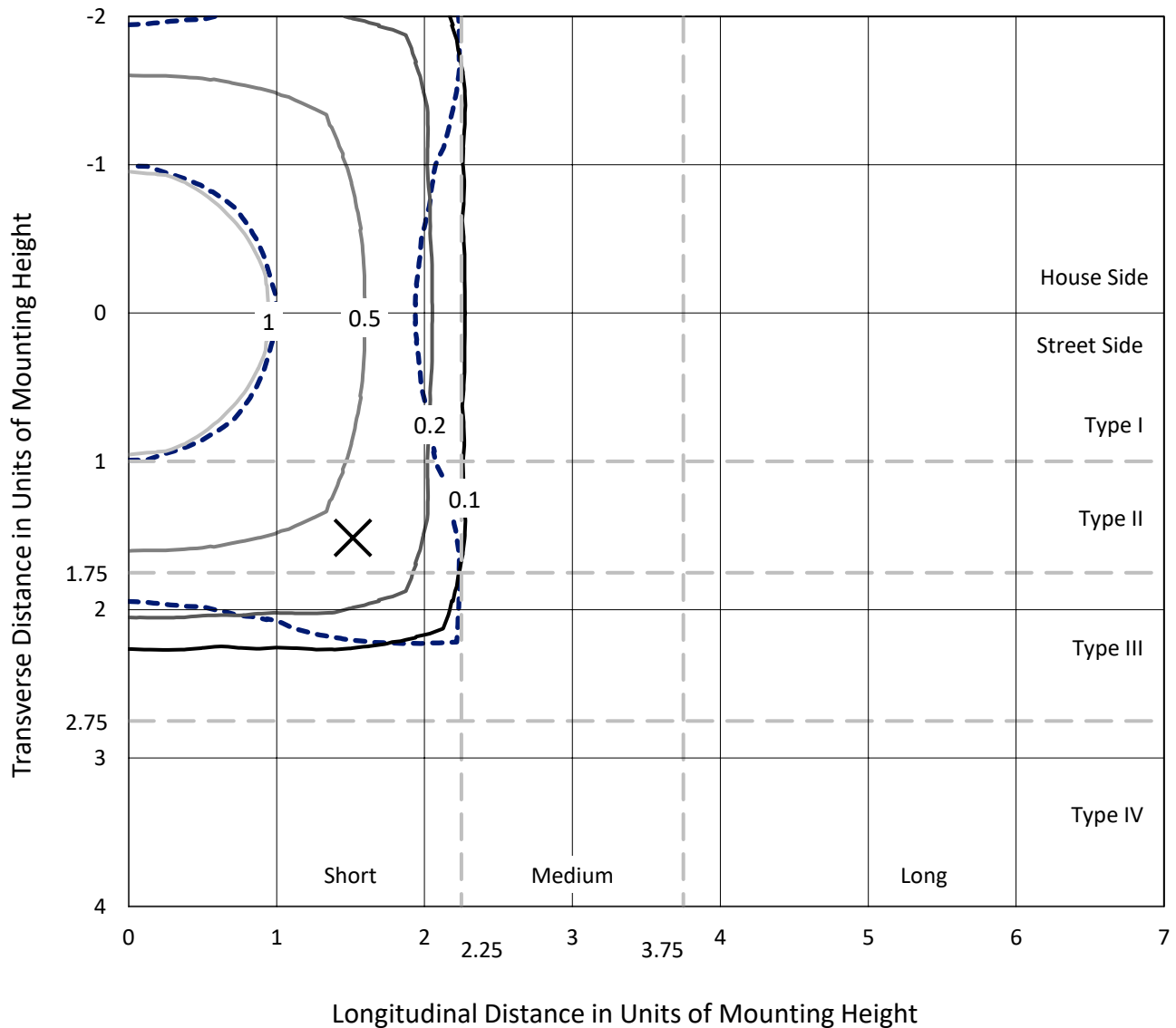
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

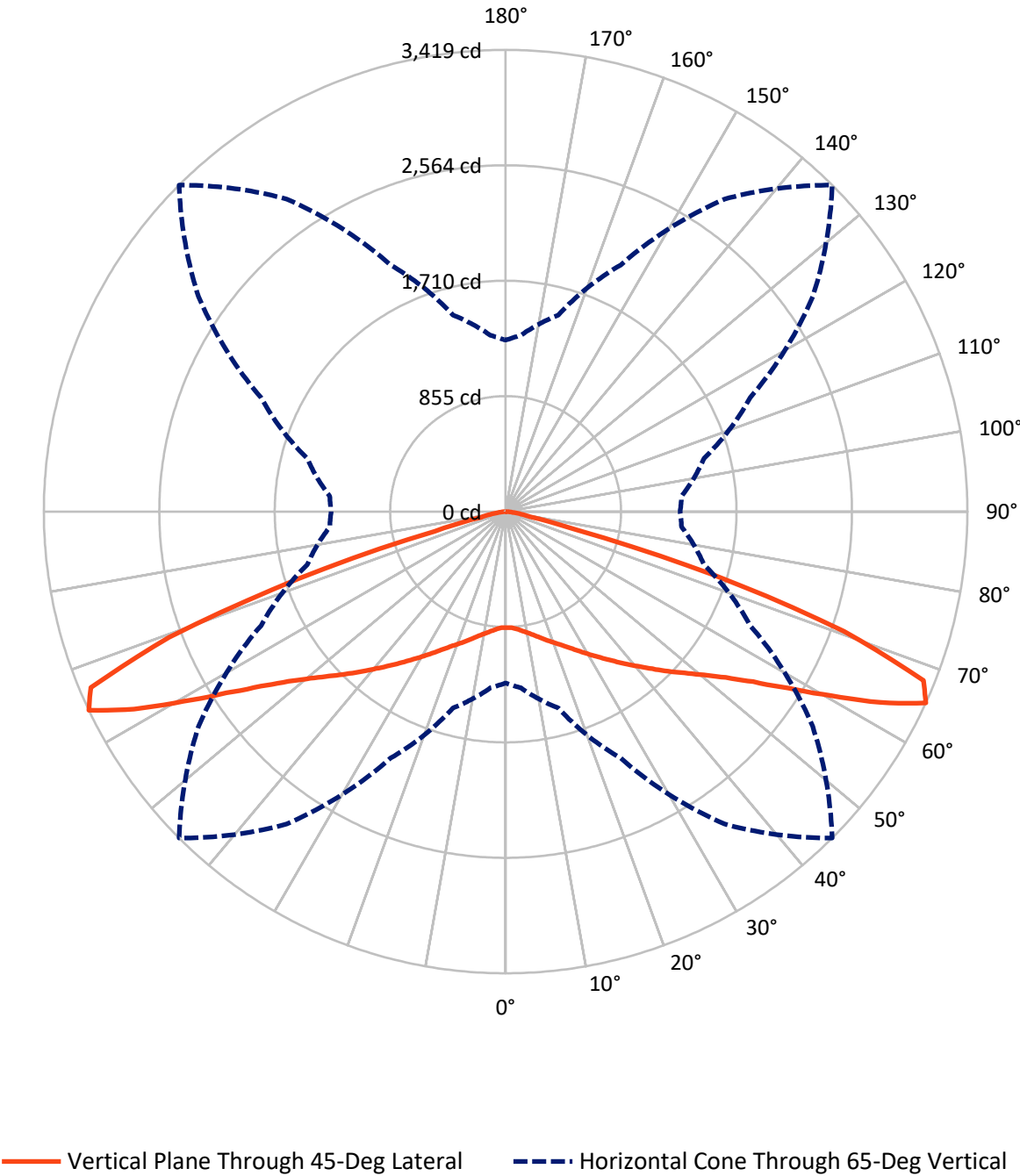
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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	3615.2	0.0	3615.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3615.2	0.0	3615.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	7230.3	0.0	7230.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.9	1.2
10°-20°	277.1	3.8
20°-30°	523.2	7.2
30°-40°	856.7	11.8
40°-50°	1328.4	18.4
50°-60°	1962.3	27.1
60°-70°	1867.9	25.8
70°-80°	301.4	4.2
80°-90°	28.4	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°	7230.3	100.0
0°-180°	7230.3	100.0

Coefficient of Utilization



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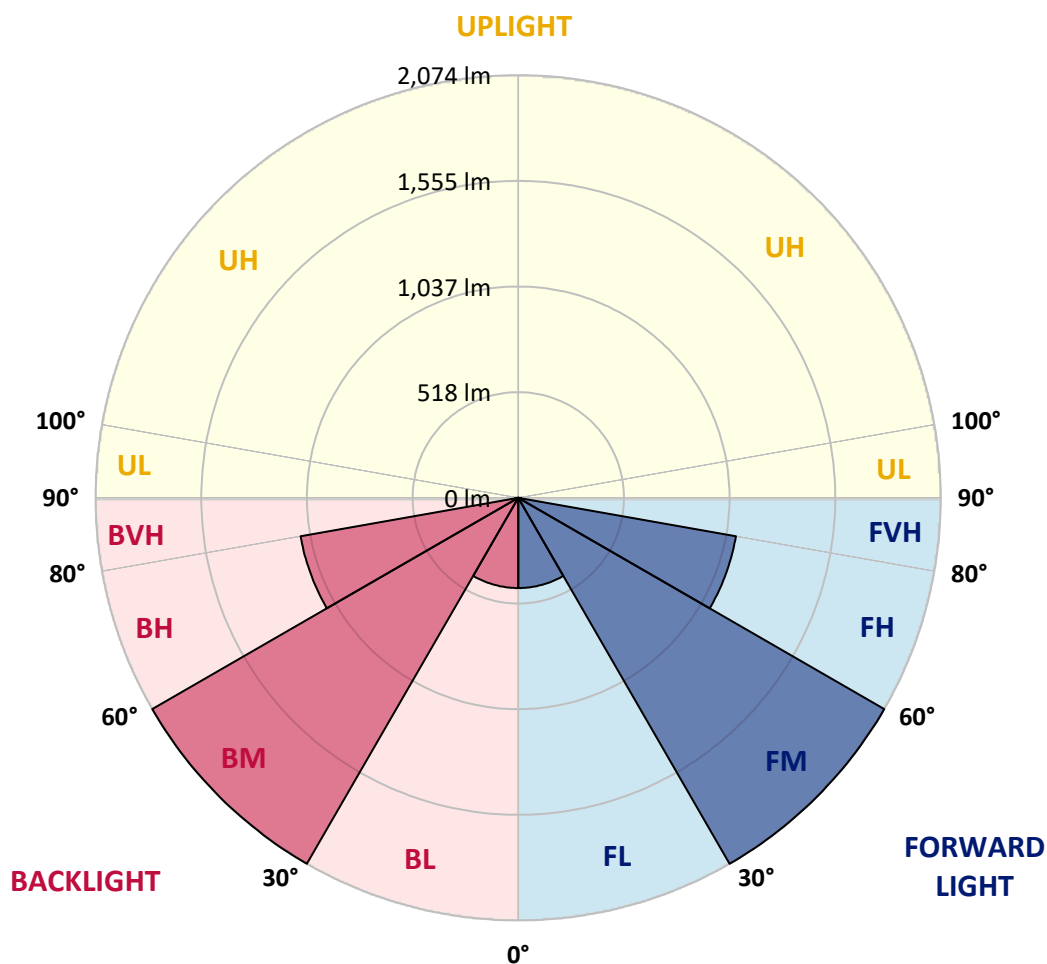
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	442.6	6.1			
FM	(30°-60°)	2073.7	28.7			
FH	(60°-80°)	1084.7	15.0			G1/1800
FVH	(80°-90°)	14.2	0.2			G1/100
BL	(0°-30°)	442.6	6.1	B1/500		
BM	(30°-60°)	2073.7	28.7	B2/2500		
BH	(60°-80°)	1084.7	15.0	B3/2500		G1/1800
BVH	(80°-90°)	14.2	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°	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5
2.5°	866.3	863.4	865.6	863.8	862.3	860.9	861.6	864.1	865.2	865.6	865.6
5°	877.9	875.4	876.5	876.5	873.9	873.2	873.5	875.4	877.5	877.5	877.5
7.5°	896.8	894.2	896.8	895.3	893.1	892.4	892.1	893.5	896.8	896.8	895.6
10°	919.6	916.8	918.2	917.5	914.9	913.8	913.5	915.6	918.5	918.2	917.5
12.5°	944.6	941.4	943.2	941.1	940.3	939.2	939.2	938.8	940.6	939.2	939.9
15°	972.6	970.4	971.1	969.6	970.8	970.1	967.1	965.7	966.4	964.2	964.6
17.5°	1005.6	1000.5	1003.1	1002.3	1002.3	1003.8	999.1	997.2	998.7	996.5	998.4
20°	1043.7	1038.6	1039.7	1038.2	1036.4	1037.9	1032.1	1033.5	1034.6	1033.2	1036.4
22.5°	1085.4	1078.9	1078.5	1079.2	1075.2	1075.6	1071.6	1075.2	1077.4	1073.4	1077.4
25°	1128.2	1121.4	1126.1	1124.2	1119.1	1120.2	1117.4	1120.9	1122.8	1117.7	1123.5
27.5°	1173.5	1168.8	1173.2	1174.2	1168.1	1172.5	1168.1	1171.4	1173.2	1165.5	1171.4
30°	1226.5	1221.8	1225.8	1228.7	1221.4	1228.4	1224.7	1226.9	1227.2	1218.2	1223.6
32.5°	1284.2	1276.9	1287.1	1288.5	1280.5	1288.9	1284.2	1287.1	1288.9	1276.5	1284.9
35°	1354.5	1345.5	1357.1	1355.3	1348.4	1355.3	1350.9	1355.3	1359.7	1344.8	1353.8
37.5°	1430.4	1421.0	1433.3	1430.0	1423.5	1428.2	1425.7	1428.5	1435.5	1419.5	1429.3
40°	1513.8	1502.2	1518.9	1513.1	1507.0	1506.2	1507.7	1509.5	1518.5	1500.8	1506.5
42.5°	1603.1	1590.7	1615.8	1606.7	1598.0	1592.2	1596.9	1600.5	1609.2	1589.3	1599.8
45°	1705.0	1690.8	1723.5	1712.7	1698.8	1686.8	1694.5	1700.0	1712.7	1688.7	1701.0
47.5°	1817.4	1801.5	1836.3	1833.1	1810.6	1784.4	1801.8	1817.4	1826.9	1797.8	1807.7
50°	1927.4	1915.0	1960.7	1964.7	1937.1	1900.6	1924.8	1948.4	1951.0	1912.9	1917.6
52.5°	2030.4	2018.1	2084.4	2109.4	2084.8	2041.3	2067.0	2091.0	2071.7	2022.4	2023.9
55°	2112.7	2102.6	2187.1	2251.7	2260.0	2224.1	2239.3	2238.6	2175.6	2099.7	2102.3
57.5°	2132.7	2131.3	2237.9	2374.7	2461.7	2466.0	2436.0	2359.0	2223.0	2121.1	2114.6
60°	2042.0	2051.1	2197.6	2438.9	2671.0	2767.6	2637.3	2417.9	2169.0	2027.6	2010.8
62.5°	1770.7	1794.6	1971.3	2360.6	2840.1	3114.4	2798.8	2328.6	1947.0	1762.3	1751.4
65°	1268.9	1310.7	1505.8	2014.4	2824.9	3419.1	2775.5	1998.1	1520.4	1307.4	1291.8
67.5°	575.7	618.2	783.9	1379.2	2455.6	3336.4	2449.8	1393.8	823.1	620.3	611.3
70°	208.6	215.9	269.2	552.2	1569.4	2658.3	1636.4	556.2	286.2	230.0	227.1
72.5°	126.3	127.3	138.6	197.7	545.2	1614.0	568.5	204.3	141.4	125.6	127.7
75°	80.2	79.4	98.7	120.8	193.3	544.5	202.7	120.8	98.3	89.6	90.3
77.5°	57.7	59.4	70.7	90.3	121.9	184.6	119.7	86.3	70.7	58.0	59.1
80°	43.2	44.3	51.6	70.4	85.6	115.0	76.2	63.9	53.3	36.3	37.4
82.5°	31.2	31.2	33.7	51.1	52.3	62.0	41.3	45.0	35.2	25.7	25.7
85°	18.4	18.1	21.0	30.4	27.2	22.9	18.9	27.6	22.1	16.0	15.6
87.5°	6.6	6.9	6.6	8.7	7.3	6.1	5.8	7.6	6.1	5.4	5.1
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)