

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: P962599

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962599
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-830-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

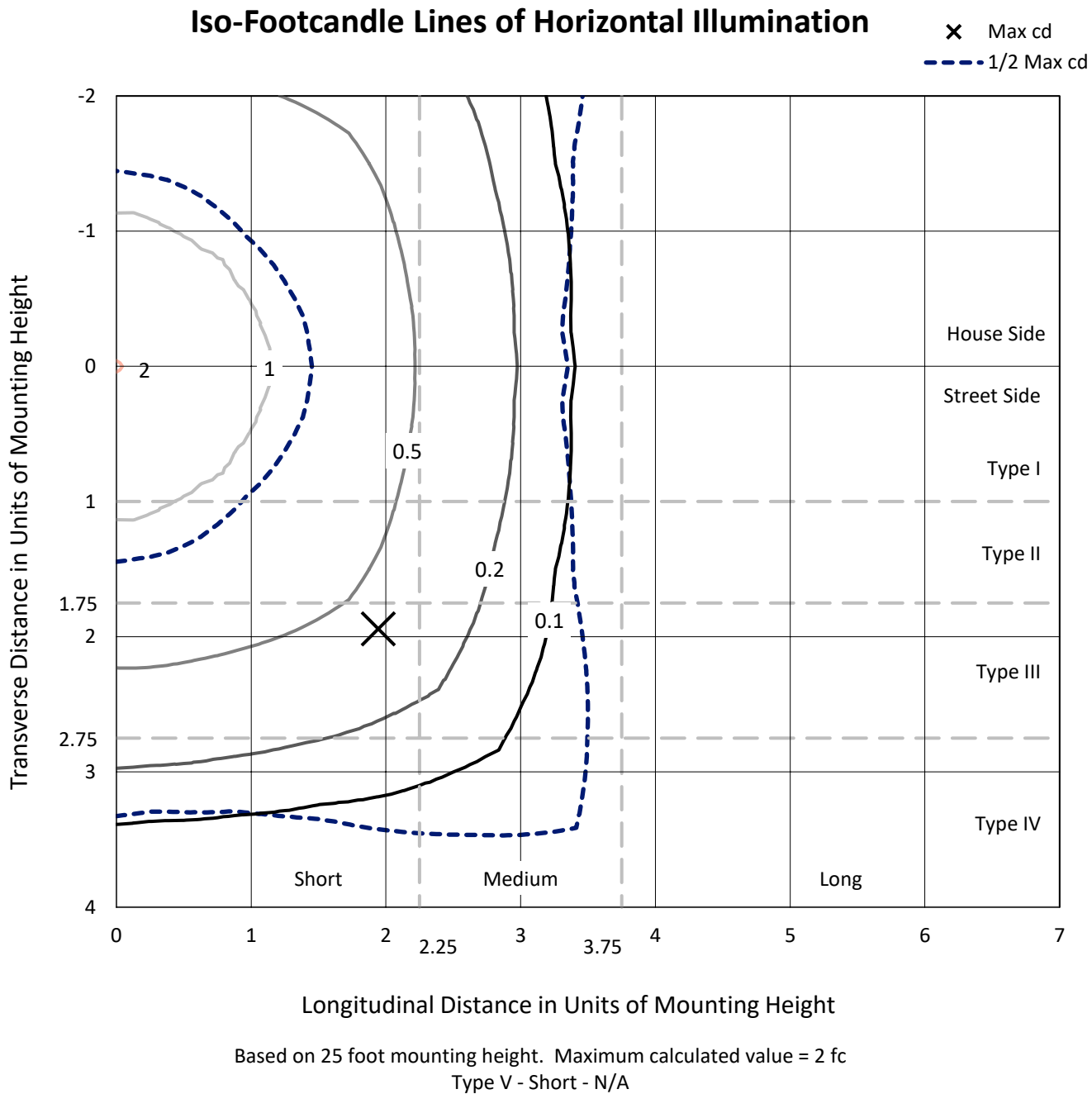
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13952.3 lumens
Efficiency: N/A
Efficacy: 138.3 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

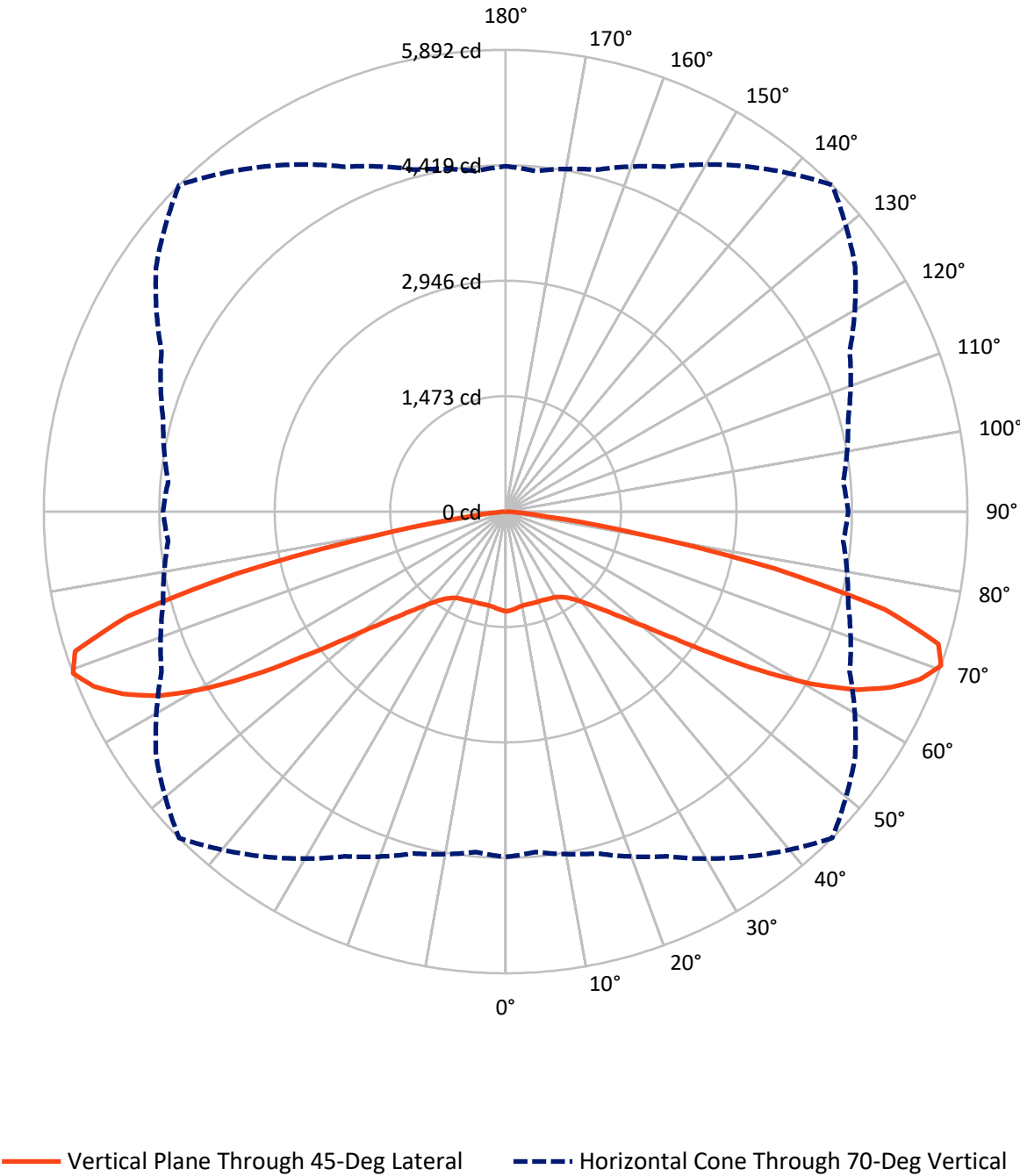


REPORT NUMBER: P962599
CATALOG NUMBER: NAV-SB2C-830-U-5WQ



REPORT NUMBER: P962599
CATALOG NUMBER: NAV-SB2C-830-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P962599

CATALOG NUMBER: NAV-SB2C-830-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6976.2	0.0	6976.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6976.2	0.0	6976.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	13952.3	0.0	13952.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.4	0.8
10°-20°	347.6	2.5
20°-30°	578.5	4.1
30°-40°	874.9	6.3
40°-50°	1453.9	10.4
50°-60°	2743.4	19.7
60°-70°	4632.3	33.2
70°-80°	3043.9	21.8
80°-90°	159.5	1.1
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°	13952.3	100.0
0°-180°	13952.3	100.0

Coefficient of Utilization



REPORT NUMBER: P962599

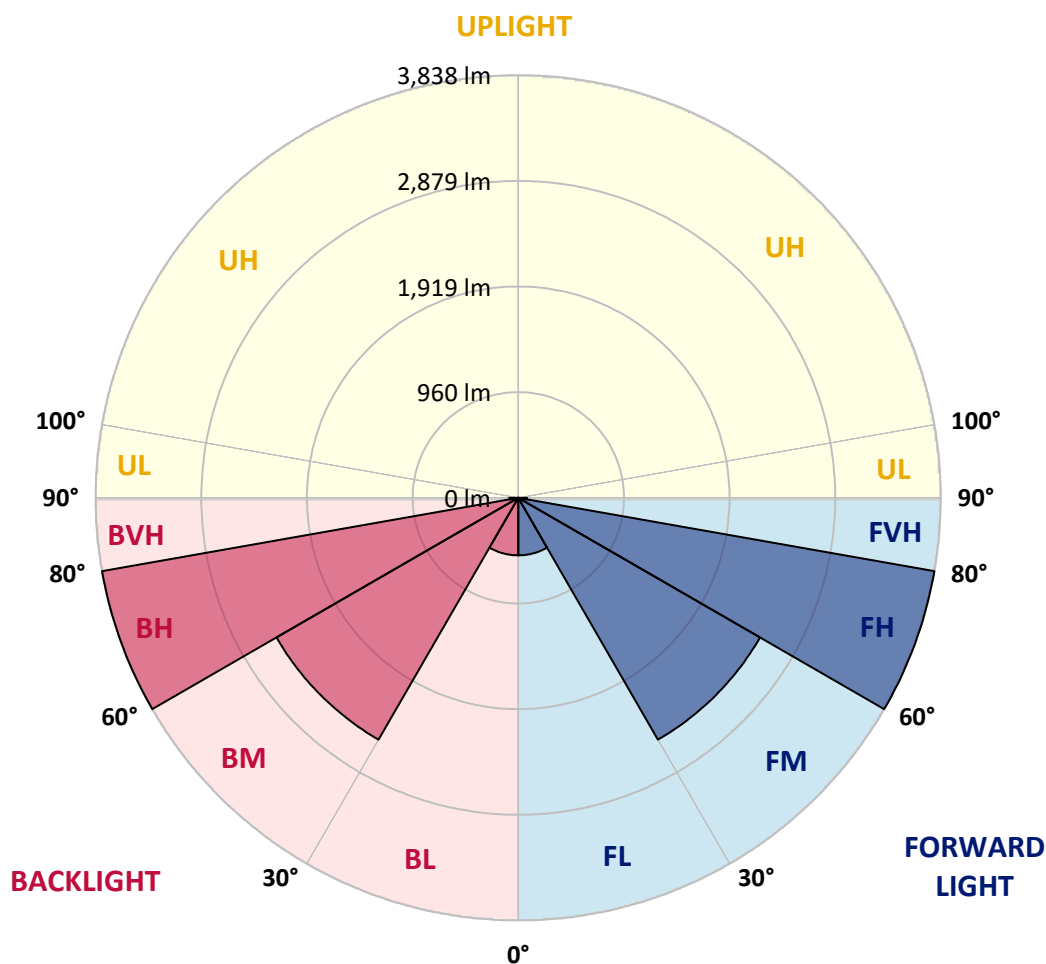
CATALOG NUMBER: NAV-SB2C-830-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	522.3	3.7			
FM	(30°-60°)	2536.1	18.2			
FH	(60°-80°)	3838.1	27.5			G2/5000
FVH	(80°-90°)	79.7	0.6			G1/100
BL	(0°-30°)	522.3	3.7	B2/1000		
BM	(30°-60°)	2536.1	18.2	B3/5000		
BH	(60°-80°)	3838.1	27.5	B4/5000		G2/5000
BVH	(80°-90°)	79.7	0.6			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



REPORT NUMBER: P962599

CATALOG NUMBER: NAV-SB2C-830-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1272.7	1272.7	1272.7	1272.7	1272.7	1272.7	1272.7	1272.7	1272.7	1272.7	1272.7
2.5°	1264.7	1268.3	1266.9	1264.0	1264.0	1261.9	1264.0	1265.5	1267.6	1269.2	1268.3
5°	1248.0	1251.0	1250.3	1248.0	1248.8	1246.6	1248.0	1250.3	1251.7	1252.4	1252.4
7.5°	1233.6	1236.5	1235.0	1231.4	1231.4	1229.2	1229.9	1232.2	1234.3	1235.0	1235.0
10°	1229.9	1232.9	1228.5	1222.7	1220.5	1217.6	1218.3	1220.5	1224.9	1227.0	1227.0
12.5°	1231.4	1233.6	1229.2	1220.5	1218.3	1215.4	1215.4	1217.6	1223.4	1226.3	1227.0
15°	1235.7	1237.9	1231.4	1222.0	1219.8	1217.6	1216.9	1219.8	1226.3	1231.4	1232.2
17.5°	1243.7	1245.9	1235.7	1222.7	1219.8	1220.5	1219.8	1222.0	1232.2	1241.6	1241.6
20°	1251.0	1252.4	1238.6	1222.7	1219.8	1220.5	1219.8	1224.2	1237.2	1250.3	1251.0
22.5°	1253.2	1254.6	1241.6	1227.7	1225.6	1226.3	1225.6	1229.9	1242.3	1255.3	1255.3
25°	1253.9	1256.0	1245.9	1235.0	1238.6	1240.1	1238.6	1239.3	1248.8	1260.4	1259.7
27.5°	1264.7	1267.6	1258.2	1248.8	1251.0	1250.3	1252.4	1254.6	1261.9	1273.5	1270.6
30°	1287.2	1289.4	1281.5	1272.0	1270.6	1265.5	1272.0	1279.3	1287.2	1297.3	1295.2
32.5°	1324.2	1328.6	1318.5	1308.3	1301.8	1298.9	1303.9	1316.2	1327.2	1338.0	1333.6
35°	1385.9	1388.8	1379.3	1360.5	1348.9	1348.9	1353.2	1369.2	1386.6	1400.4	1395.3
37.5°	1472.9	1476.5	1459.8	1437.4	1419.9	1419.9	1425.8	1442.4	1468.5	1488.1	1480.8
40°	1578.8	1583.8	1562.8	1539.7	1522.9	1520.1	1527.2	1546.1	1570.8	1595.4	1587.4
42.5°	1706.4	1712.2	1684.7	1664.3	1651.3	1651.3	1654.9	1672.3	1694.8	1725.3	1723.1
45°	1869.6	1879.7	1842.0	1821.7	1809.3	1812.3	1814.5	1829.7	1850.0	1884.8	1883.3
47.5°	2063.9	2074.1	2034.2	2013.2	2010.9	2024.8	2016.1	2026.9	2037.8	2077.7	2066.1
50°	2284.4	2301.8	2274.3	2272.8	2277.1	2302.6	2282.2	2288.0	2275.7	2301.0	2285.9
52.5°	2554.2	2579.5	2574.5	2583.2	2631.8	2684.0	2637.5	2617.2	2570.8	2578.8	2551.9
55°	2881.3	2919.7	2926.9	2979.2	3089.4	3196.0	3097.3	3015.3	2916.7	2898.6	2870.3
57.5°	3253.2	3283.7	3318.5	3425.1	3631.1	3820.4	3631.1	3449.7	3294.6	3257.7	3231.5
60°	3653.6	3691.3	3724.6	3882.0	4188.0	4454.2	4182.2	3894.4	3689.1	3639.1	3595.6
62.5°	4083.6	4132.2	4155.5	4330.2	4687.0	5004.7	4692.0	4343.2	4115.5	4061.9	4018.3
65°	4496.3	4536.1	4562.3	4748.6	5089.4	5407.8	5112.7	4768.9	4534.7	4464.4	4429.5
67.5°	4688.5	4710.2	4774.0	4985.1	5344.8	5708.0	5405.6	5007.5	4745.8	4622.4	4623.9
70°	4407.1	4362.8	4516.6	4854.5	5375.2	5892.3	5444.8	4844.4	4523.8	4323.7	4371.5
72.5°	3405.6	3329.4	3596.3	4174.3	5027.1	5774.7	5062.0	4206.9	3762.4	3356.3	3457.0
75°	1852.9	1766.6	2135.0	2866.0	4008.9	5005.4	4101.0	2947.9	2377.2	1839.2	1958.8
77.5°	522.9	490.3	787.6	1386.6	2411.3	3514.3	2504.1	1417.1	934.1	554.0	615.7
80°	160.3	155.2	210.3	417.7	1024.0	1683.2	984.1	422.8	267.6	169.0	178.4
82.5°	95.0	87.0	104.4	152.3	261.1	528.7	253.8	158.8	127.6	85.6	92.9
85°	54.4	50.7	61.6	74.0	87.7	112.4	73.3	75.4	68.2	45.7	47.9
87.5°	22.4	20.3	23.9	23.2	20.3	26.1	19.6	23.2	27.6	18.1	16.7
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)