

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: P959967

Luminaire Tested: **NAV-SB1B-830-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959967
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-830-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: -

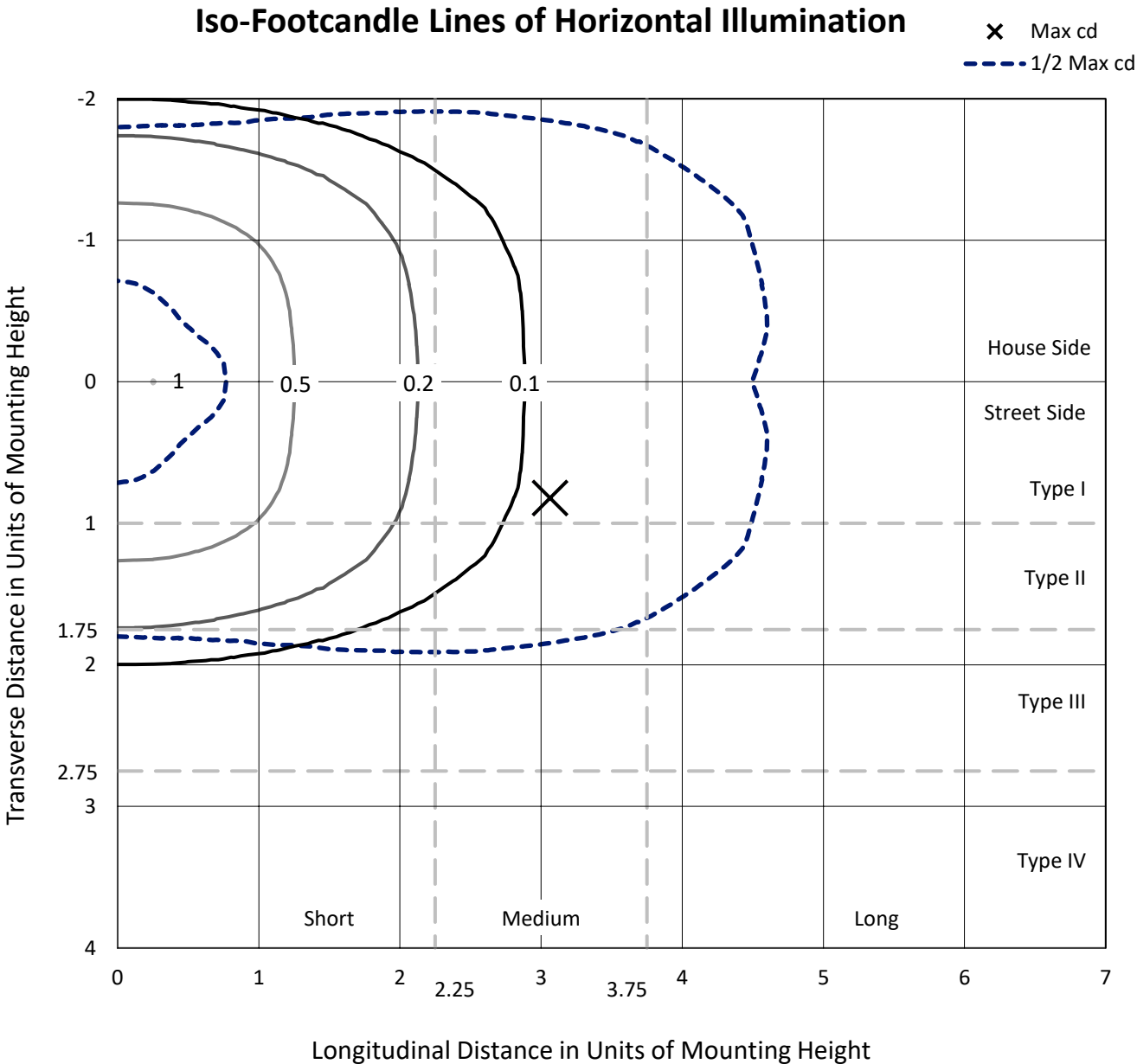
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5342.3 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 39.8
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



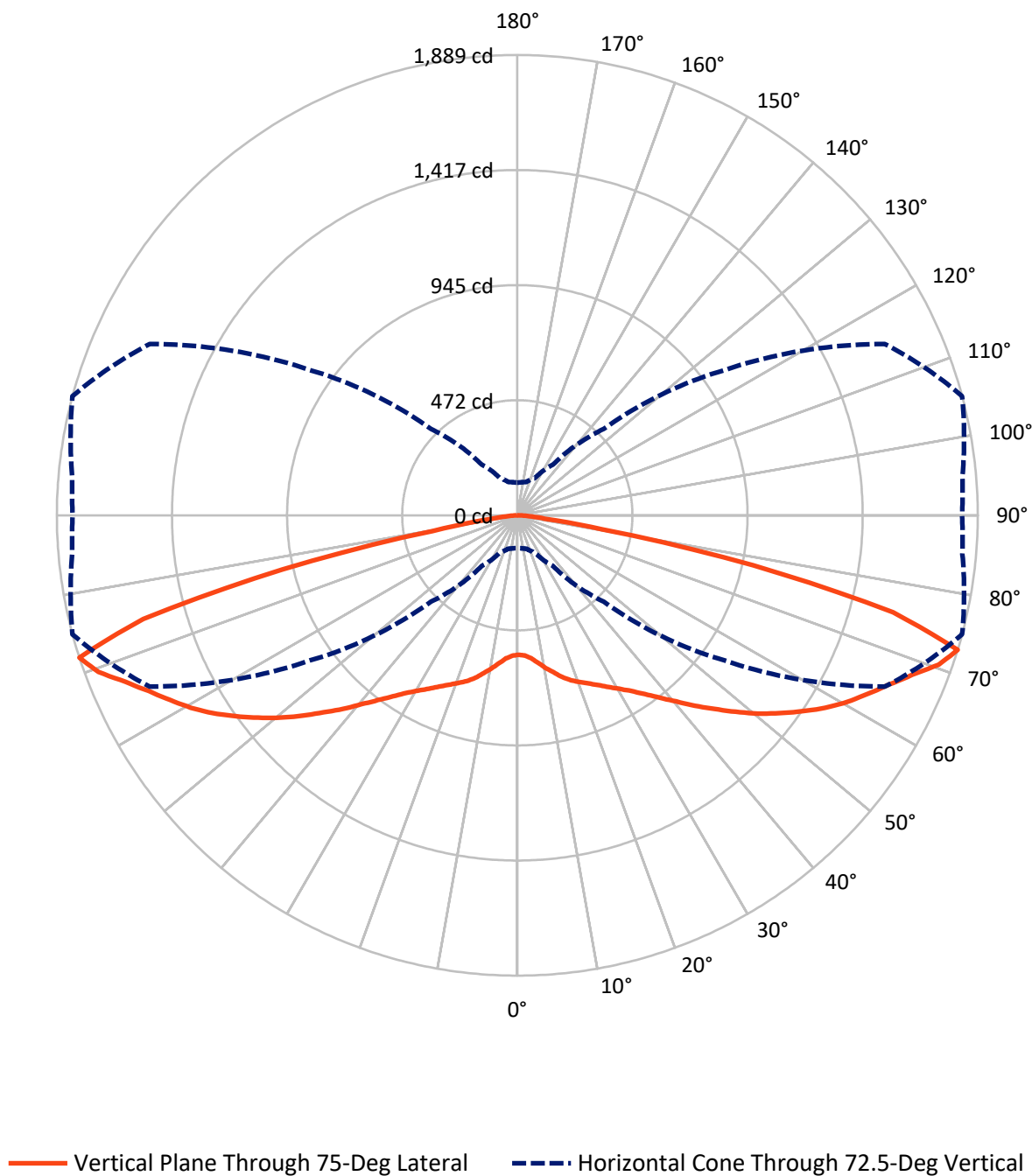
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Based on 25 foot mounting height. Maximum calculated value = 1 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2671.1	0.0	2671.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2671.1	0.0	2671.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	5342.3	0.0	5342.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.1	1.0
10°-20°	184.9	3.5
20°-30°	357.3	6.7
30°-40°	603.3	11.3
40°-50°	956.7	17.9
50°-60°	1280.9	24.0
60°-70°	1219.0	22.8
70°-80°	636.1	11.9
80°-90°	48.1	0.9
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°	5342.3	100.0
0°-180°	5342.3	100.0

Coefficient of Utilization



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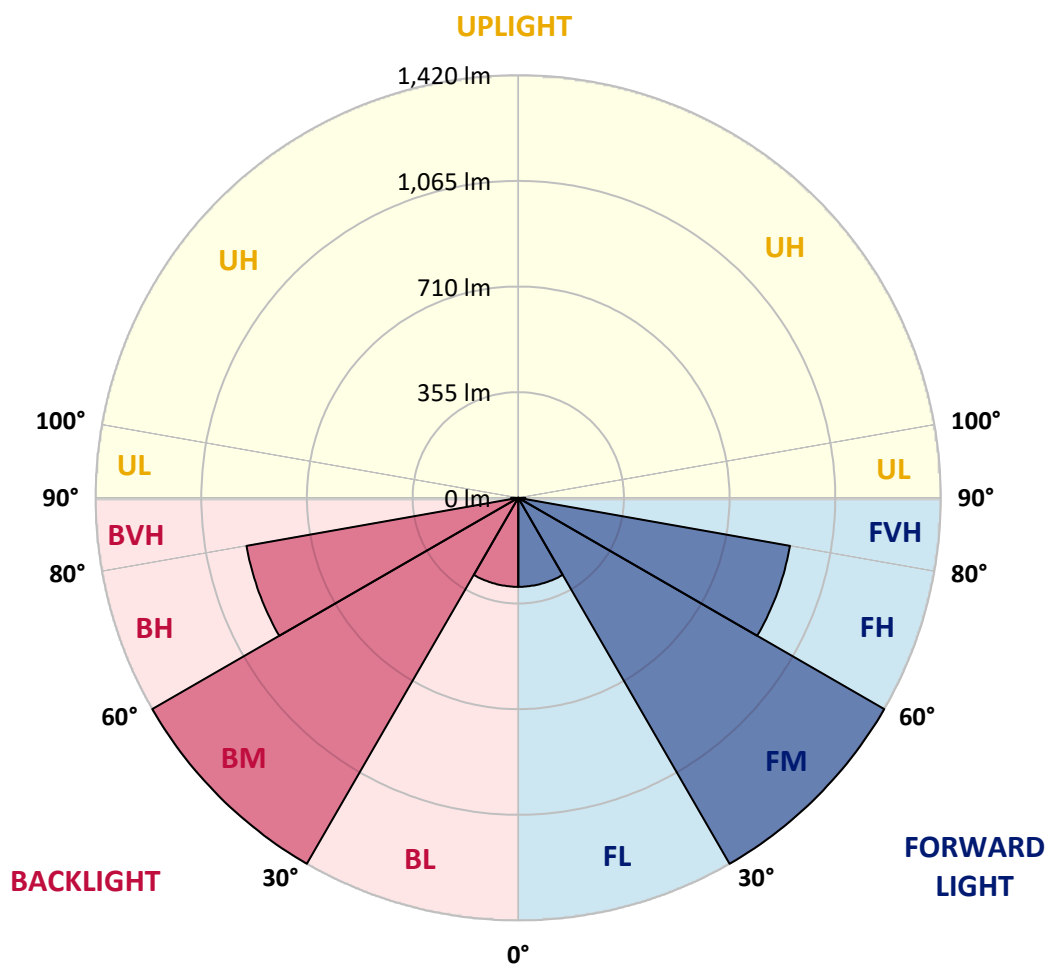
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	299.1	5.6			
FM	(30°-60°)	1420.4	26.6			
FH	(60°-80°)	927.5	17.4			G1/1800
FVH	(80°-90°)	24.1	0.5			G1/100
BL	(0°-30°)	299.1	5.6	B1/500		
BM	(30°-60°)	1420.4	26.6	B2/2500		
BH	(60°-80°)	927.5	17.4	B2/1000		G2/1000
BVH	(80°-90°)	24.1	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	572.3	572.3	572.3	572.3	572.3	572.3	572.3	572.3	572.3	572.3	572.3
2.5°	572.3	571.7	572.3	572.8	572.6	572.6	573.9	574.7	576.4	576.0	575.8
5°	568.5	568.2	570.3	572.8	574.7	578.0	582.1	585.1	588.9	589.7	589.7
7.5°	566.5	565.7	569.5	573.9	579.8	588.0	596.0	604.1	610.7	612.8	613.5
10°	567.8	568.2	573.4	581.5	591.1	602.5	613.7	627.6	636.9	639.1	641.2
12.5°	574.2	573.6	582.3	595.4	608.5	623.0	636.1	651.4	661.4	666.7	668.8
15°	585.6	584.6	596.8	616.1	635.3	652.2	662.8	677.3	689.0	695.6	698.0
17.5°	599.2	599.8	615.9	641.0	666.0	685.2	695.3	702.6	711.7	717.4	720.1
20°	623.3	624.3	642.4	672.1	700.7	722.5	730.7	728.0	730.4	734.8	738.1
22.5°	655.5	656.0	676.2	708.4	738.4	762.4	767.8	756.7	749.8	752.9	755.0
25°	692.8	696.4	716.6	749.6	780.3	803.3	805.8	788.8	771.9	772.7	774.1
27.5°	738.4	741.7	762.1	794.8	826.2	846.1	845.8	823.2	798.4	792.1	794.0
30°	787.7	791.3	812.3	846.1	875.2	892.8	889.0	861.9	826.5	814.8	816.1
32.5°	846.3	848.6	869.8	903.6	930.7	944.5	936.6	903.4	859.2	845.8	849.1
35°	917.3	920.6	936.4	968.3	992.0	1003.5	990.1	950.9	901.2	886.2	888.4
37.5°	998.4	996.1	1014.1	1042.5	1062.1	1069.3	1050.9	1004.3	949.3	931.5	934.8
40°	1082.9	1081.8	1101.5	1128.7	1139.3	1143.7	1116.7	1065.7	1004.6	985.5	991.8
42.5°	1159.5	1158.7	1185.1	1215.4	1228.3	1223.3	1189.2	1130.9	1068.7	1046.8	1052.4
45°	1220.9	1219.8	1252.2	1294.8	1319.9	1311.7	1265.9	1202.8	1133.6	1111.0	1116.1
47.5°	1268.0	1268.6	1303.5	1356.2	1400.0	1403.1	1344.2	1276.2	1205.1	1179.5	1187.1
50°	1302.2	1303.8	1341.2	1399.5	1459.6	1486.0	1424.1	1351.6	1279.0	1250.1	1258.8
52.5°	1310.7	1313.6	1358.6	1427.1	1497.7	1548.2	1505.4	1423.8	1349.1	1321.5	1328.6
55°	1265.6	1271.6	1328.6	1425.0	1521.2	1589.2	1576.9	1497.2	1419.7	1391.3	1399.2
57.5°	1162.2	1170.7	1237.3	1363.0	1516.0	1617.2	1632.2	1567.5	1490.4	1463.1	1469.3
60°	1017.4	1027.5	1091.3	1228.6	1442.9	1627.6	1671.3	1636.0	1555.3	1528.8	1534.5
62.5°	798.9	812.0	888.4	1049.3	1288.5	1579.3	1704.5	1697.9	1613.7	1580.7	1584.4
65°	512.5	526.4	606.9	797.0	1082.6	1431.4	1714.8	1758.2	1675.3	1629.2	1635.0
67.5°	309.0	315.3	355.2	483.1	791.3	1208.6	1627.0	1825.0	1747.3	1690.0	1694.4
70°	197.7	201.3	225.0	283.7	447.3	881.8	1409.4	1837.6	1834.6	1752.5	1751.9
72.5°	134.2	135.3	141.6	168.0	253.1	501.0	1039.5	1663.6	1889.2	1833.0	1824.2
75°	98.2	104.2	114.3	118.9	143.7	250.4	595.7	1168.8	1592.1	1616.6	1557.2
77.5°	73.1	73.4	87.3	92.8	102.6	133.4	252.0	652.4	988.5	1037.8	925.8
80°	61.9	58.6	58.3	74.7	77.2	83.2	112.6	225.3	354.0	214.6	162.3
82.5°	51.6	48.0	43.4	58.3	52.7	51.0	48.8	91.6	112.6	55.4	47.2
85°	36.0	34.3	32.7	38.2	30.0	25.6	23.5	42.8	47.5	23.5	20.7
87.5°	15.6	16.1	16.4	16.9	12.5	9.0	9.0	12.0	12.0	9.2	6.9
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)