

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: P959932

Luminaire Tested: **NAV-SB1B-827-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959932
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-SB1B-827-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

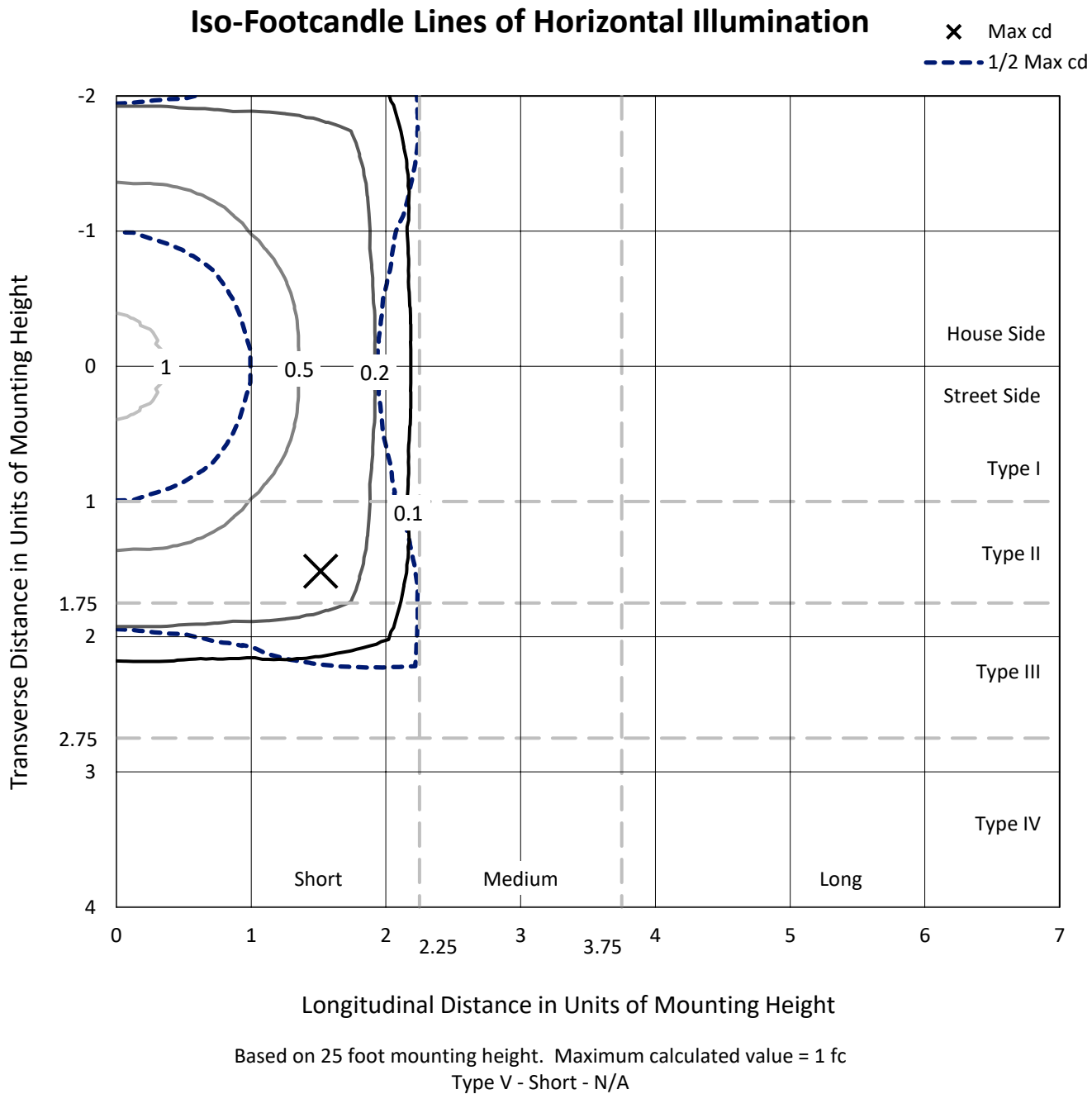
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5261.3 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

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

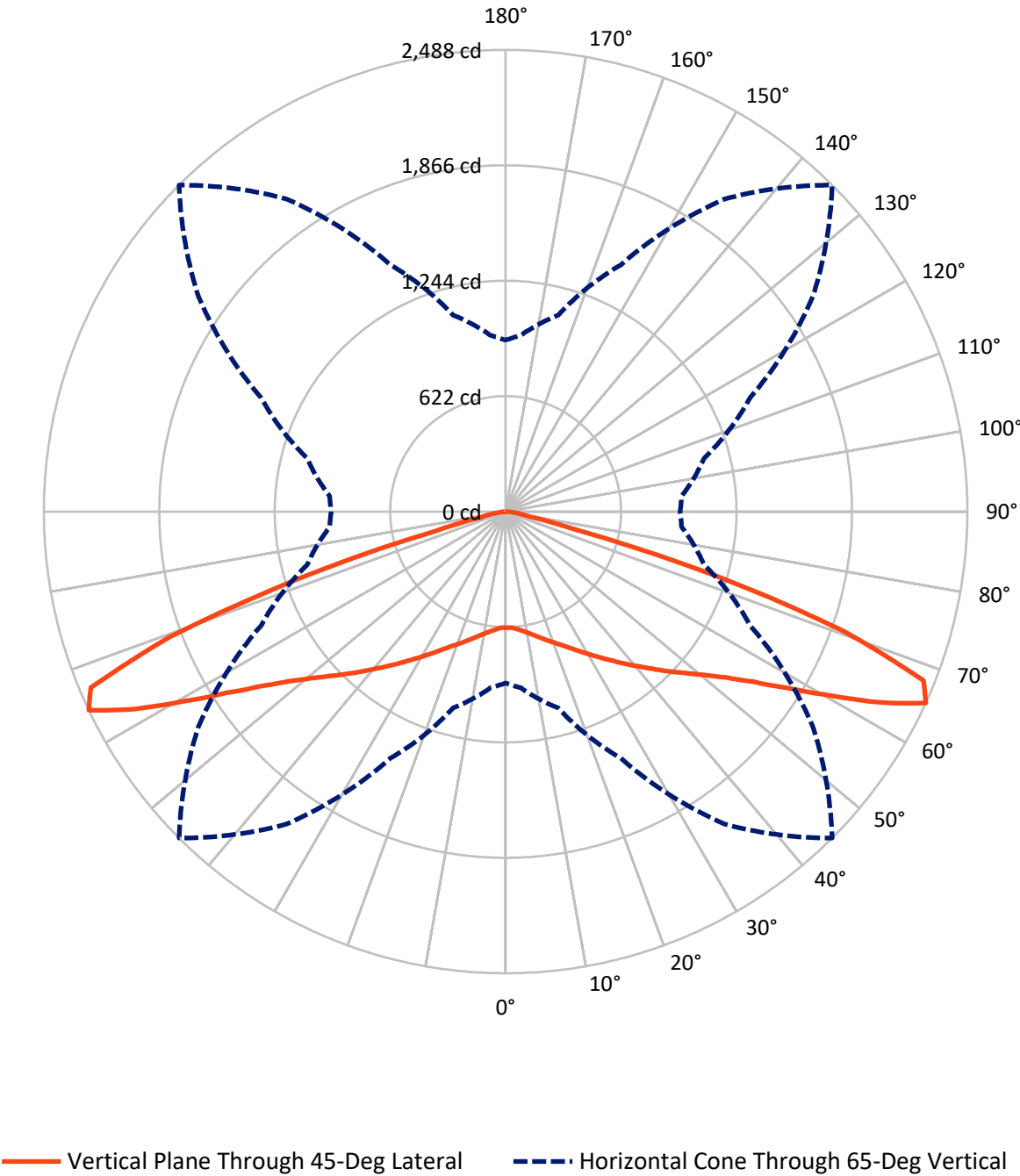


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2630.7	0.0	2630.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2630.7	0.0	2630.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	5261.3	0.0	5261.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.8	1.2
10°-20°	201.6	3.8
20°-30°	380.7	7.2
30°-40°	623.4	11.8
40°-50°	966.6	18.4
50°-60°	1427.9	27.1
60°-70°	1359.2	25.8
70°-80°	219.3	4.2
80°-90°	20.7	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°	5261.3	100.0
0°-180°	5261.3	100.0

Coefficient of Utilization



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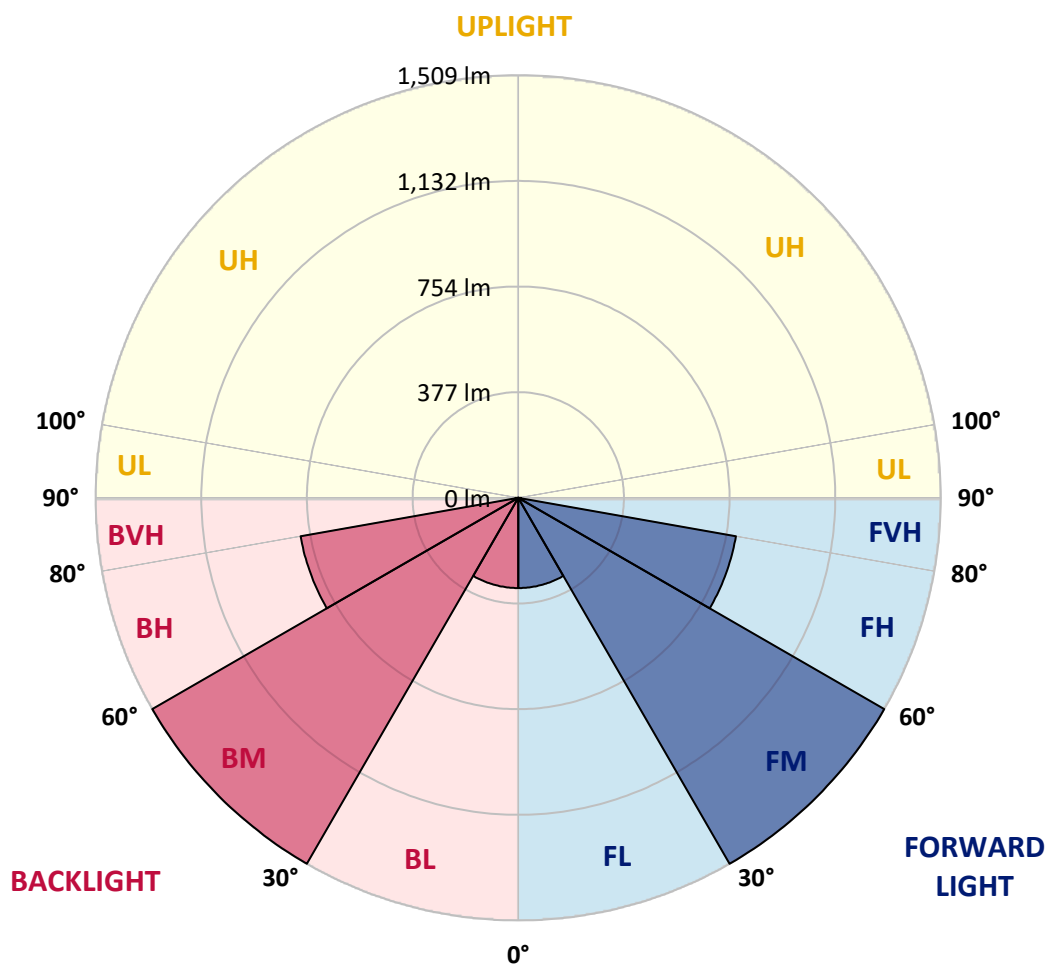
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	322.1	6.1			
FM	(30°-60°)	1509.0	28.7			
FH	(60°-80°)	789.3	15.0			G1/1800
FVH	(80°-90°)	10.3	0.2			G1/100
BL	(0°-30°)	322.1	6.1	B1/500		
BM	(30°-60°)	1509.0	28.7	B2/2500		
BH	(60°-80°)	789.3	15.0	B2/1000		G1/1800
BVH	(80°-90°)	10.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2
2.5°	630.4	628.2	629.9	628.5	627.5	626.4	627.0	628.8	629.6	629.9	629.9
5°	638.8	636.9	637.8	637.8	635.9	635.4	635.6	636.9	638.6	638.6	638.6
7.5°	652.5	650.7	652.5	651.5	650.0	649.3	649.1	650.2	652.5	652.5	651.8
10°	669.2	667.1	668.1	667.6	665.7	664.9	664.7	666.2	668.4	668.1	667.6
12.5°	687.4	685.0	686.3	684.8	684.2	683.5	683.5	683.2	684.5	683.5	684.0
15°	707.8	706.1	706.6	705.6	706.4	705.9	703.8	702.7	703.3	701.6	701.9
17.5°	731.7	728.1	729.9	729.4	729.4	730.4	727.0	725.7	726.7	725.2	726.4
20°	759.4	755.7	756.6	755.5	754.2	755.2	751.0	752.0	752.9	751.8	754.2
22.5°	789.9	785.0	784.8	785.4	782.4	782.7	779.8	782.4	784.0	781.2	784.0
25°	820.9	815.9	819.4	818.1	814.4	815.2	813.0	815.7	817.0	813.3	817.5
27.5°	853.9	850.5	853.7	854.4	850.0	853.2	850.0	852.4	853.7	848.2	852.4
30°	892.5	889.1	892.0	894.1	888.8	893.8	891.1	892.8	893.0	886.4	890.4
32.5°	934.5	929.2	936.5	937.7	931.8	937.9	934.5	936.5	937.9	929.0	935.0
35°	985.6	979.1	987.5	986.3	981.2	986.3	983.1	986.3	989.3	978.6	985.1
37.5°	1040.9	1034.0	1042.9	1040.6	1035.9	1039.2	1037.4	1039.6	1044.6	1032.9	1040.1
40°	1101.6	1093.2	1105.3	1101.1	1096.5	1096.0	1097.1	1098.4	1105.1	1092.0	1096.3
42.5°	1166.6	1157.5	1175.8	1169.1	1162.9	1158.6	1162.0	1164.7	1171.0	1156.5	1164.1
45°	1240.7	1230.4	1254.2	1246.2	1236.1	1227.4	1233.1	1237.0	1246.2	1228.8	1237.8
47.5°	1322.6	1310.9	1336.3	1333.8	1317.5	1298.5	1311.2	1322.6	1329.4	1308.3	1315.4
50°	1402.5	1393.5	1426.8	1429.7	1409.6	1382.9	1400.7	1417.8	1419.6	1391.9	1395.3
52.5°	1477.4	1468.5	1516.8	1535.0	1517.1	1485.4	1504.1	1521.5	1507.6	1471.7	1472.7
55°	1537.4	1530.0	1591.5	1638.5	1644.6	1618.5	1629.5	1629.0	1583.1	1527.9	1529.7
57.5°	1552.0	1550.8	1628.4	1727.9	1791.3	1794.5	1772.6	1716.7	1617.7	1543.4	1538.7
60°	1485.9	1492.5	1599.2	1774.7	1943.6	2013.9	1919.1	1759.4	1578.3	1475.4	1463.2
62.5°	1288.4	1305.8	1434.5	1717.7	2066.7	2266.3	2036.6	1694.4	1416.8	1282.4	1274.5
65°	923.4	953.8	1095.7	1465.9	2055.5	2488.0	2019.7	1454.0	1106.3	951.4	940.0
67.5°	418.9	449.8	570.4	1003.7	1786.9	2427.8	1782.6	1014.2	599.0	451.4	444.8
70°	151.8	157.0	195.9	401.8	1142.0	1934.4	1190.8	404.7	208.3	167.4	165.2
72.5°	91.8	92.7	100.9	143.9	396.8	1174.4	413.7	148.6	102.9	91.3	93.0
75°	58.3	57.8	71.9	87.9	140.7	396.3	147.6	87.9	71.5	65.2	65.7
77.5°	41.9	43.3	51.5	65.7	88.7	134.4	87.1	62.8	51.5	42.2	43.0
80°	31.4	32.2	37.5	51.2	62.3	83.6	55.5	46.4	38.8	26.4	27.2
82.5°	22.7	22.7	24.6	37.2	38.0	45.1	30.1	32.7	25.6	18.8	18.8
85°	13.4	13.2	15.3	22.1	19.8	16.6	13.7	20.1	16.1	11.6	11.4
87.5°	4.7	5.0	4.7	6.4	5.3	4.5	4.2	5.5	4.5	4.0	3.7
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)