

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: P960459

Luminaire Tested: **NAV-SB1C-827-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960459
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-827-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

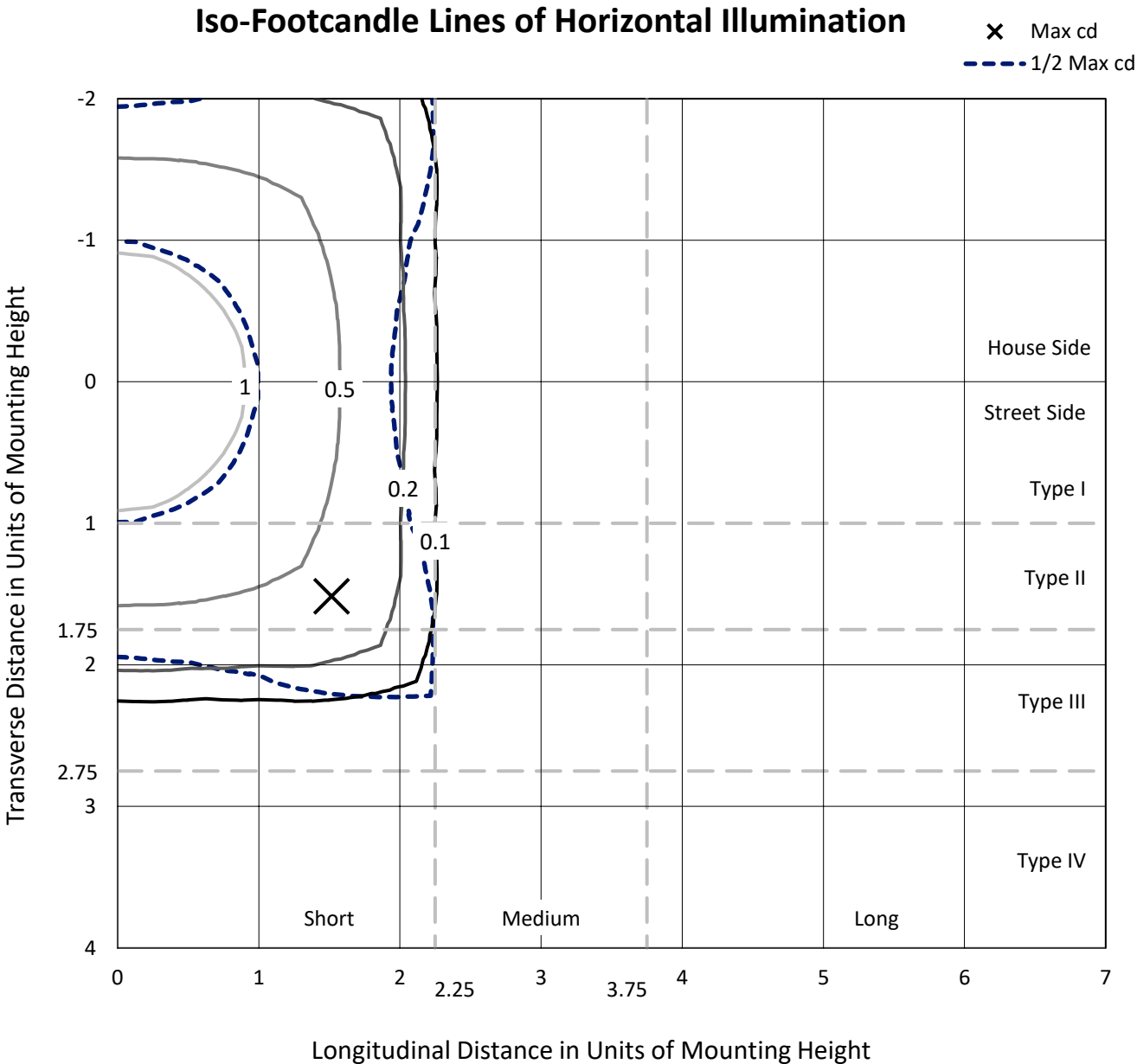
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6996.6 lumens
Efficiency: N/A
Efficacy: 128.6 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



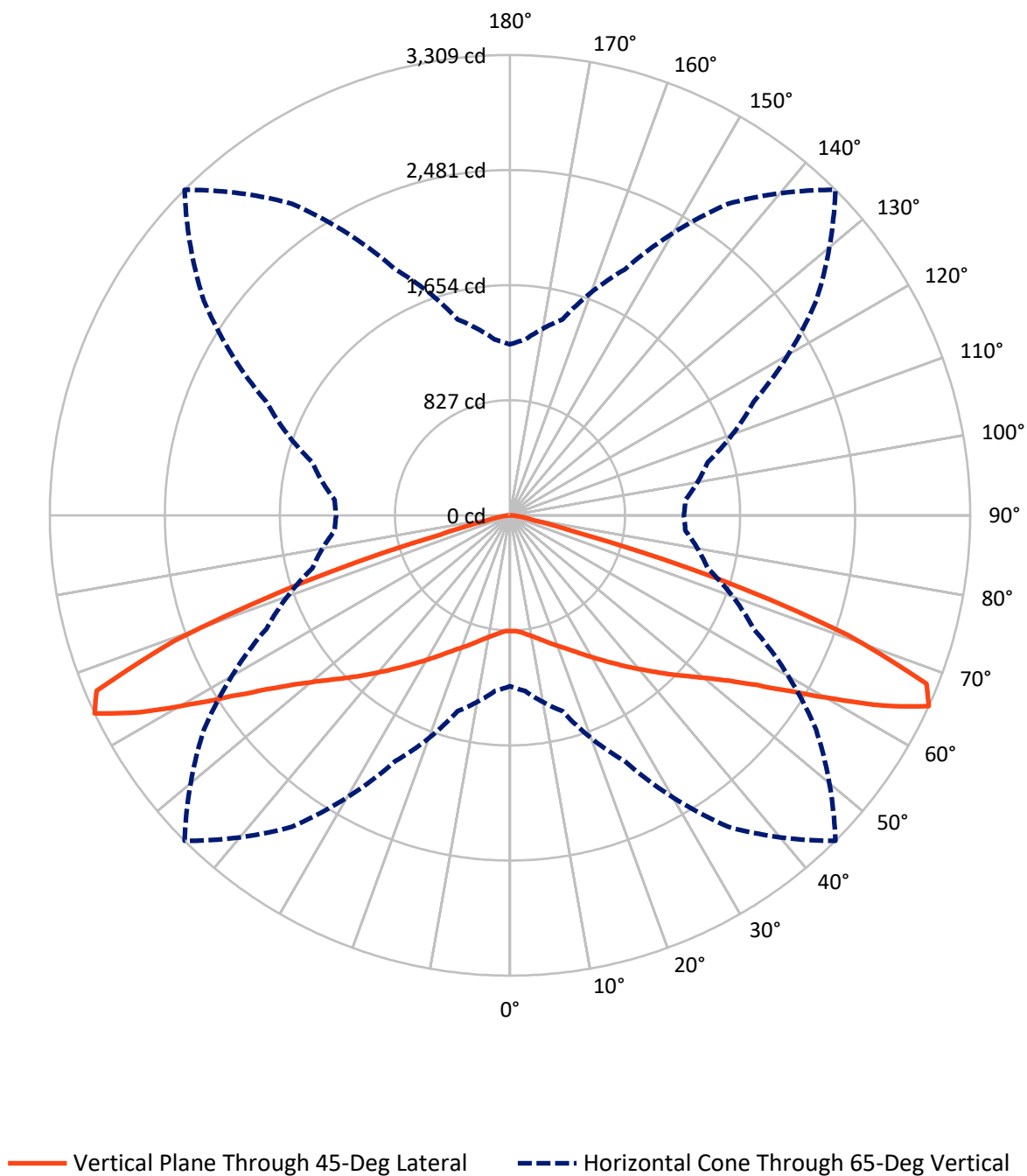
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Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3498.3	0.0	3498.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3498.3	0.0	3498.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	6996.6	0.0	6996.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.2	1.2
10°-20°	268.2	3.8
20°-30°	506.3	7.2
30°-40°	829.0	11.8
40°-50°	1285.4	18.4
50°-60°	1898.9	27.1
60°-70°	1807.5	25.8
70°-80°	291.7	4.2
80°-90°	27.5	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°	6996.6	100.0
0°-180°	6996.6	100.0

Coefficient of Utilization



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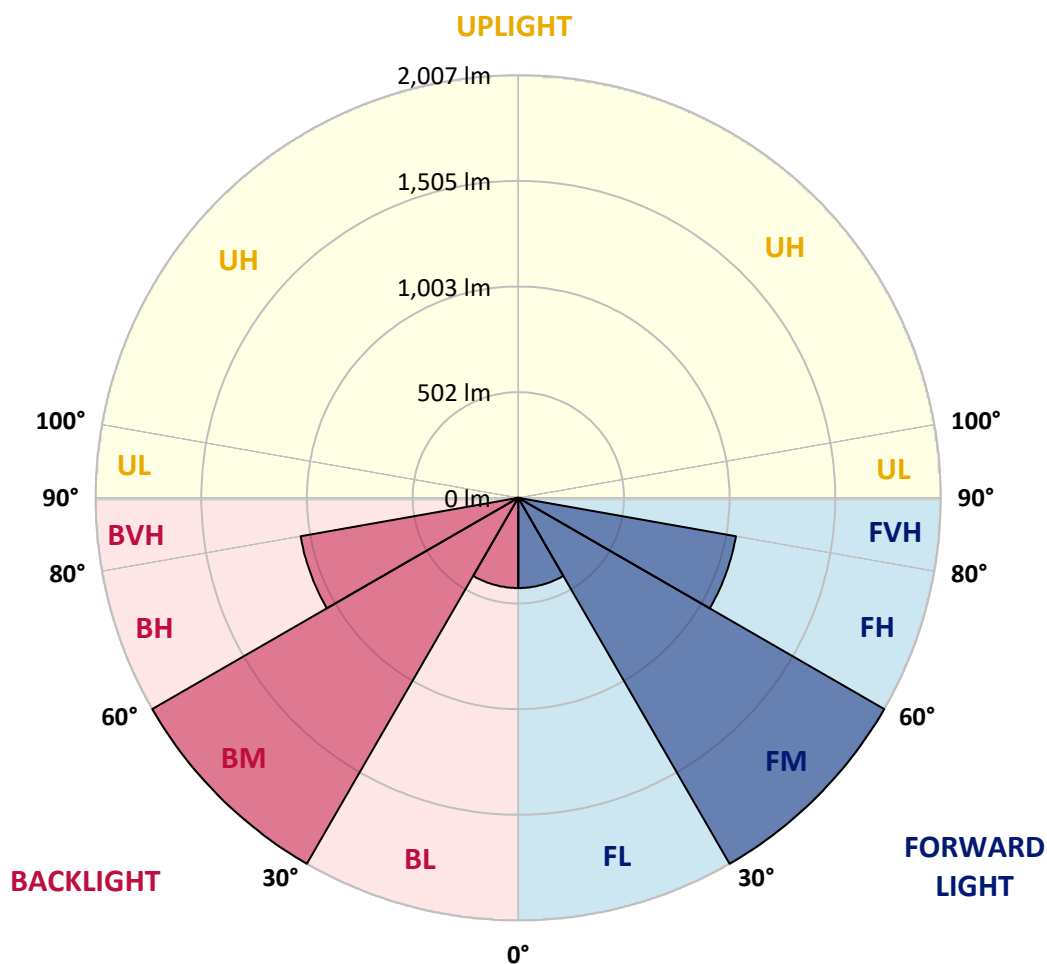
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	428.3	6.1			
FM	(30°-60°)	2006.7	28.7			
FH	(60°-80°)	1049.6	15.0			G1/1800
FVH	(80°-90°)	13.7	0.2			G1/100
BL	(0°-30°)	428.3	6.1	B1/500		
BM	(30°-60°)	2006.7	28.7	B2/2500		
BH	(60°-80°)	1049.6	15.0	B3/2500		G1/1800
BVH	(80°-90°)	13.7	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°	832.7	832.7	832.7	832.7	832.7	832.7	832.7	832.7	832.7	832.7	832.7
2.5°	838.2	835.5	837.6	835.8	834.5	833.0	833.7	836.2	837.2	837.6	837.6
5°	849.5	847.1	848.1	848.1	845.6	844.9	845.3	847.1	849.2	849.2	849.2
7.5°	867.8	865.3	867.8	866.3	864.3	863.6	863.3	864.6	867.8	867.8	866.7
10°	889.9	887.0	888.5	887.8	885.3	884.3	884.0	886.0	888.9	888.5	887.8
12.5°	914.1	910.9	912.7	910.6	909.9	908.9	908.9	908.5	910.3	908.9	909.6
15°	941.2	939.0	939.7	938.3	939.4	938.7	935.9	934.5	935.2	933.1	933.5
17.5°	973.1	968.2	970.7	970.0	970.0	971.3	966.8	965.0	966.4	964.3	966.1
20°	1009.9	1005.0	1006.0	1004.7	1003.0	1004.3	998.8	1000.1	1001.2	999.8	1003.0
22.5°	1050.3	1044.0	1043.7	1044.4	1040.5	1040.9	1037.0	1040.5	1042.6	1038.7	1042.6
25°	1091.7	1085.1	1089.7	1087.8	1083.0	1084.0	1081.2	1084.8	1086.5	1081.6	1087.2
27.5°	1135.6	1131.1	1135.3	1136.3	1130.4	1134.6	1130.4	1133.5	1135.3	1127.9	1133.5
30°	1186.8	1182.3	1186.1	1189.0	1181.9	1188.6	1185.1	1187.3	1187.6	1178.8	1184.1
32.5°	1242.7	1235.6	1245.5	1246.9	1239.2	1247.2	1242.7	1245.5	1247.2	1235.3	1243.4
35°	1310.8	1302.1	1313.2	1311.5	1304.8	1311.5	1307.3	1311.5	1315.7	1301.3	1310.1
37.5°	1384.2	1375.0	1386.9	1383.9	1377.5	1382.0	1379.5	1382.4	1389.1	1373.6	1383.1
40°	1464.9	1453.7	1469.8	1464.2	1458.3	1457.6	1458.9	1460.7	1469.4	1452.2	1457.9
42.5°	1551.2	1539.3	1563.5	1554.7	1546.3	1540.7	1545.3	1548.8	1557.2	1537.9	1548.1
45°	1649.9	1636.2	1667.8	1657.2	1643.9	1632.3	1639.7	1645.0	1657.2	1634.1	1646.0
47.5°	1758.7	1743.3	1776.9	1773.9	1752.0	1726.8	1743.6	1758.7	1767.8	1739.7	1749.3
50°	1865.1	1853.2	1897.4	1901.3	1874.5	1839.2	1862.6	1885.5	1887.9	1851.0	1855.6
52.5°	1964.8	1952.8	2017.1	2041.3	2017.4	1975.3	2000.3	2023.5	2004.8	1957.0	1958.5
55°	2044.5	2034.6	2116.4	2178.9	2186.9	2152.2	2167.0	2166.2	2105.2	2031.9	2034.3
57.5°	2063.7	2062.4	2165.6	2297.9	2382.2	2386.4	2357.3	2282.8	2151.2	2052.6	2046.2
60°	1976.0	1984.8	2126.6	2360.1	2584.7	2678.1	2552.0	2339.7	2098.9	1962.0	1945.9
62.5°	1713.4	1736.6	1907.5	2284.2	2748.3	3013.7	2708.3	2253.4	1884.1	1705.4	1694.8
65°	1227.9	1268.3	1457.1	1949.3	2733.6	3308.6	2685.8	1933.6	1471.2	1265.2	1250.1
67.5°	557.1	598.2	758.6	1334.7	2376.2	3228.5	2370.6	1348.7	796.5	600.2	591.5
70°	201.8	208.9	260.5	534.3	1518.6	2572.4	1583.5	538.1	277.0	222.5	219.8
72.5°	122.2	123.2	134.1	191.4	527.6	1561.8	550.1	197.6	136.9	121.5	123.6
75°	77.6	76.9	95.5	116.8	187.1	527.0	196.2	116.8	95.1	86.7	87.4
77.5°	55.9	57.6	68.5	87.4	118.0	178.7	115.8	83.5	68.5	56.2	57.2
80°	41.8	42.8	49.8	68.1	82.8	111.3	73.7	61.8	51.6	35.1	36.2
82.5°	30.2	30.2	32.7	49.5	50.5	60.1	40.0	43.6	34.0	24.9	24.9
85°	17.9	17.5	20.4	29.5	26.3	22.1	18.2	26.6	21.4	15.5	15.1
87.5°	6.4	6.7	6.4	8.4	7.0	5.9	5.6	7.4	5.9	5.2	4.9
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)