

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: P960494

Luminaire Tested: **NAV-SB1C-830-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960494
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-SB1C-830-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: -

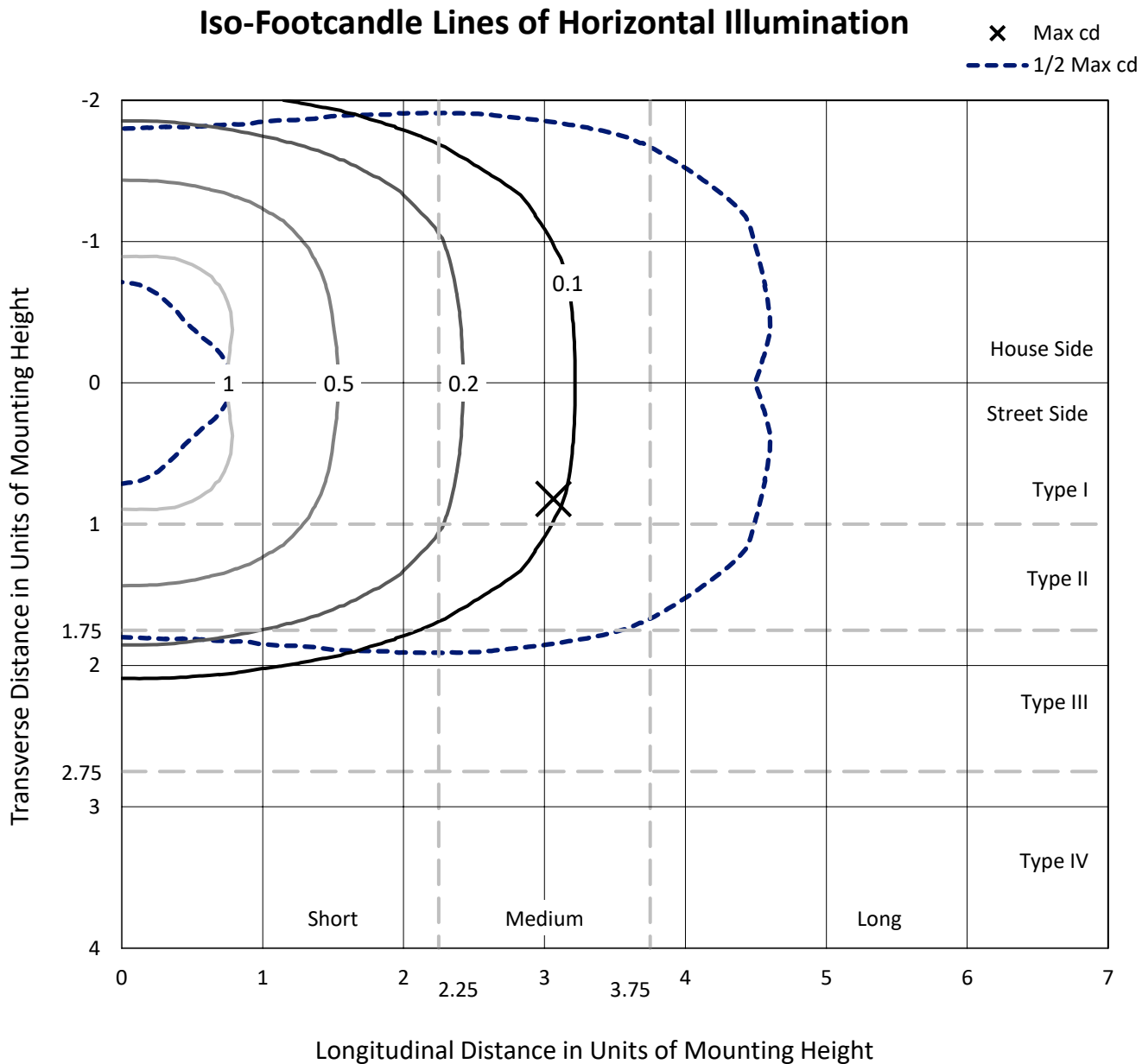
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7105.3 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

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



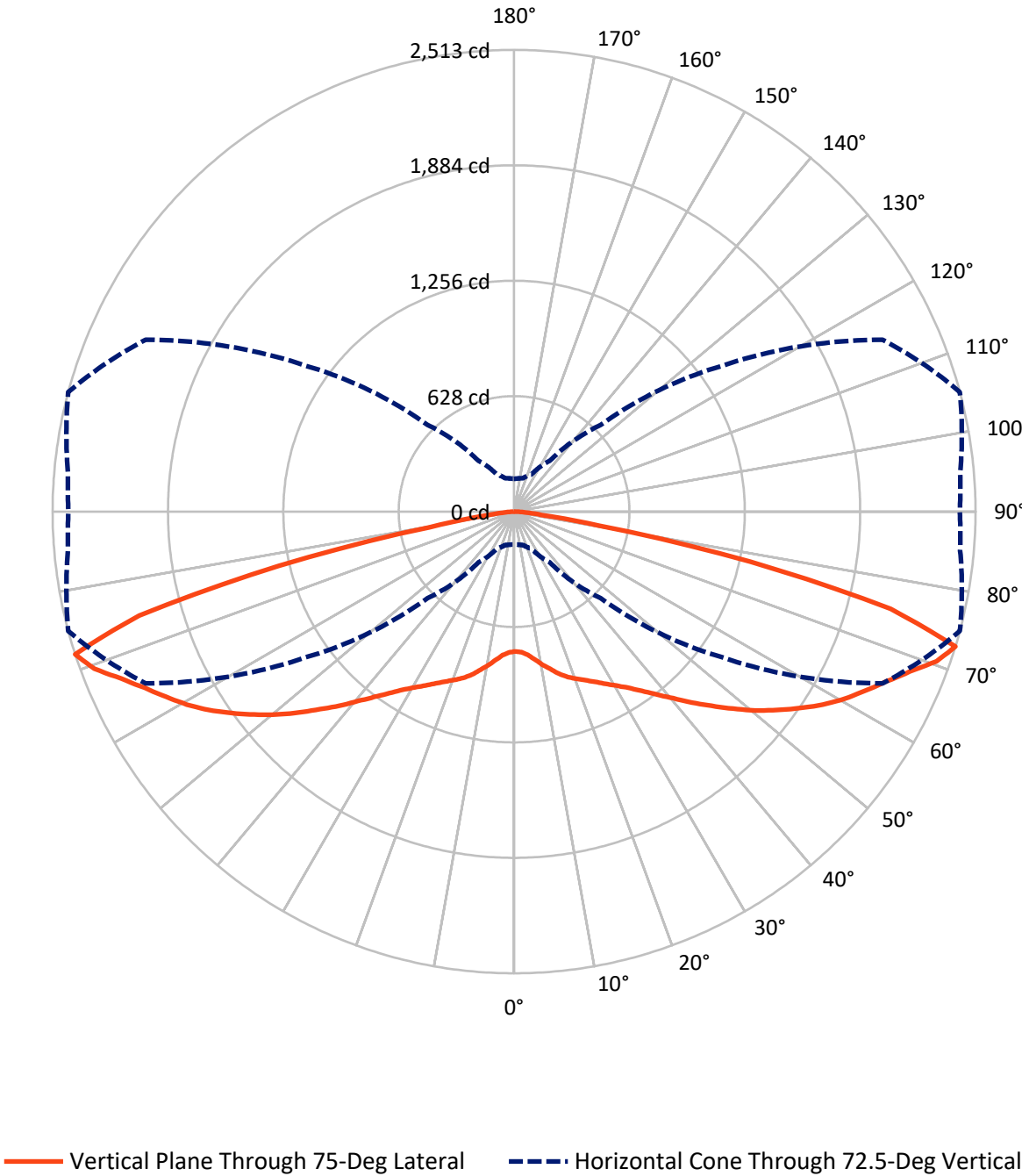
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Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3552.6	0.0	3552.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3552.6	0.0	3552.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	7105.3	0.0	7105.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.6	1.0
10°-20°	245.9	3.5
20°-30°	475.2	6.7
30°-40°	802.3	11.3
40°-50°	1272.4	17.9
50°-60°	1703.6	24.0
60°-70°	1621.3	22.8
70°-80°	846.0	11.9
80°-90°	64.0	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°	7105.3	100.0
0°-180°	7105.3	100.0

Coefficient of Utilization



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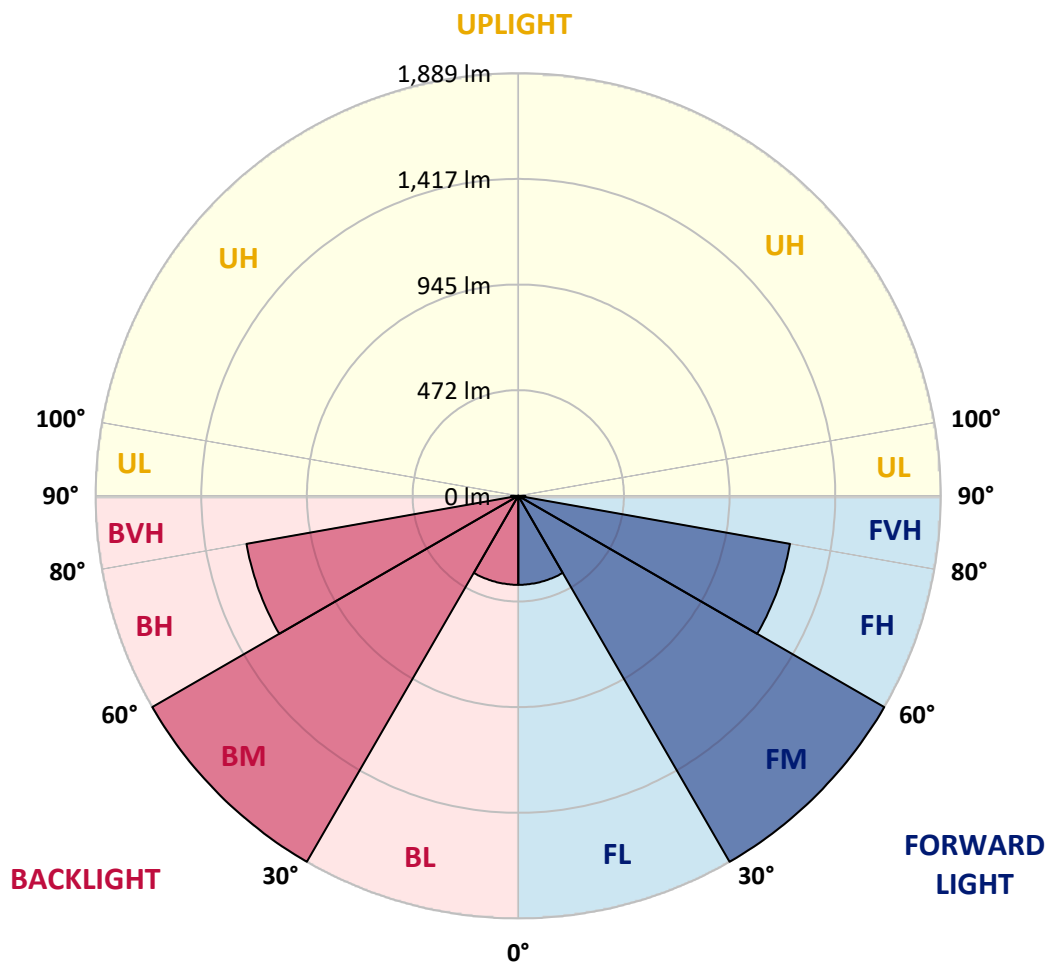
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	397.8	5.6			
FM	(30°-60°)	1889.2	26.6			
FH	(60°-80°)	1233.6	17.4			G1/1800
FVH	(80°-90°)	32.0	0.5			G1/100
BL	(0°-30°)	397.8	5.6	B1/500		
BM	(30°-60°)	1889.2	26.6	B2/2500		
BH	(60°-80°)	1233.6	17.4	B3/2500		G3/2500
BVH	(80°-90°)	32.0	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	761.1	761.1	761.1	761.1	761.1	761.1	761.1	761.1	761.1	761.1	761.1
2.5°	761.1	760.3	761.1	761.8	761.5	761.5	763.3	764.3	766.6	766.2	765.8
5°	756.0	755.6	758.6	761.8	764.3	768.7	774.2	778.2	783.2	784.3	784.3
7.5°	753.5	752.3	757.5	763.3	771.3	782.2	792.6	803.6	812.2	815.2	815.9
10°	755.3	755.6	762.6	773.5	786.2	801.3	816.2	834.8	847.1	850.0	852.9
12.5°	763.6	762.9	774.5	791.9	809.3	828.6	846.0	866.3	879.8	886.6	889.5
15°	778.9	777.5	793.8	819.5	844.9	867.4	881.5	900.8	916.4	925.1	928.3
17.5°	797.0	797.8	819.2	852.5	885.9	911.3	924.8	934.5	946.5	954.1	957.8
20°	828.9	830.4	854.3	893.9	931.9	961.0	971.9	968.2	971.5	977.3	981.6
22.5°	871.8	872.5	899.3	942.2	982.1	1013.9	1021.2	1006.3	997.2	1001.2	1004.2
25°	921.5	926.2	953.0	996.9	1037.9	1068.4	1071.6	1049.2	1026.6	1027.8	1029.5
27.5°	982.1	986.4	1013.6	1057.1	1098.8	1125.3	1124.9	1094.9	1061.8	1053.5	1056.1
30°	1047.7	1052.4	1080.4	1125.3	1164.2	1187.4	1182.3	1146.4	1099.2	1083.6	1085.5
32.5°	1125.7	1128.6	1156.9	1201.9	1237.8	1256.3	1245.8	1201.5	1142.8	1124.9	1129.3
35°	1220.1	1224.4	1245.4	1287.8	1319.4	1334.7	1316.9	1264.6	1198.6	1178.6	1181.5
37.5°	1327.8	1324.8	1348.8	1386.5	1412.7	1422.1	1397.8	1335.8	1262.5	1238.9	1243.2
40°	1440.2	1438.8	1464.9	1501.2	1515.4	1521.1	1485.2	1417.4	1336.1	1310.7	1319.1
42.5°	1542.1	1541.1	1576.2	1616.5	1633.5	1627.1	1581.7	1504.1	1421.4	1392.4	1399.6
45°	1623.8	1622.4	1665.5	1722.1	1755.5	1744.6	1683.7	1599.8	1507.7	1477.5	1484.5
47.5°	1686.5	1687.3	1733.7	1803.7	1862.1	1866.1	1787.8	1697.4	1602.8	1568.7	1578.8
50°	1731.9	1734.1	1783.8	1861.4	1941.2	1976.4	1894.1	1797.5	1701.1	1662.7	1674.2
52.5°	1743.1	1747.1	1807.0	1898.1	1992.0	2059.1	2002.1	1893.7	1794.3	1757.7	1767.1
55°	1683.3	1691.2	1767.1	1895.1	2023.2	2113.5	2097.3	1991.3	1888.3	1850.5	1861.1
57.5°	1545.8	1557.1	1645.5	1812.8	2016.3	2150.9	2170.8	2084.8	1982.2	1946.0	1954.3
60°	1353.2	1366.5	1451.5	1634.0	1919.1	2164.7	2222.7	2176.0	2068.6	2033.4	2041.0
62.5°	1062.6	1079.9	1181.5	1395.6	1713.8	2100.4	2267.0	2258.3	2146.1	2102.3	2107.4
65°	681.6	700.2	807.2	1060.1	1439.8	1903.8	2280.7	2338.4	2228.1	2166.8	2174.4
67.5°	411.0	419.3	472.3	642.5	1052.4	1607.5	2164.0	2427.3	2324.0	2247.7	2253.6
70°	263.0	267.7	299.3	377.3	594.9	1172.8	1874.4	2444.0	2440.0	2330.8	2330.1
72.5°	178.5	179.9	188.3	223.4	336.6	666.5	1382.5	2212.6	2512.6	2437.9	2426.3
75°	130.6	138.6	152.0	158.2	191.2	333.0	792.3	1554.5	2117.5	2150.1	2071.1
77.5°	97.3	97.6	116.1	123.3	136.4	177.4	335.2	867.8	1314.7	1380.4	1231.2
80°	82.3	78.0	77.6	99.4	102.7	110.6	149.9	299.6	470.9	285.5	215.9
82.5°	68.6	63.9	57.7	77.6	70.0	67.9	65.0	121.9	149.9	73.6	62.7
85°	47.9	45.7	43.6	50.7	39.9	34.1	31.2	57.0	63.1	31.2	27.6
87.5°	20.7	21.4	21.7	22.4	16.7	12.0	12.0	16.0	16.0	12.3	9.0
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)