

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: P961018

Luminaire Tested: **NAV-SB1D-830-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961018
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-SB1D-830-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

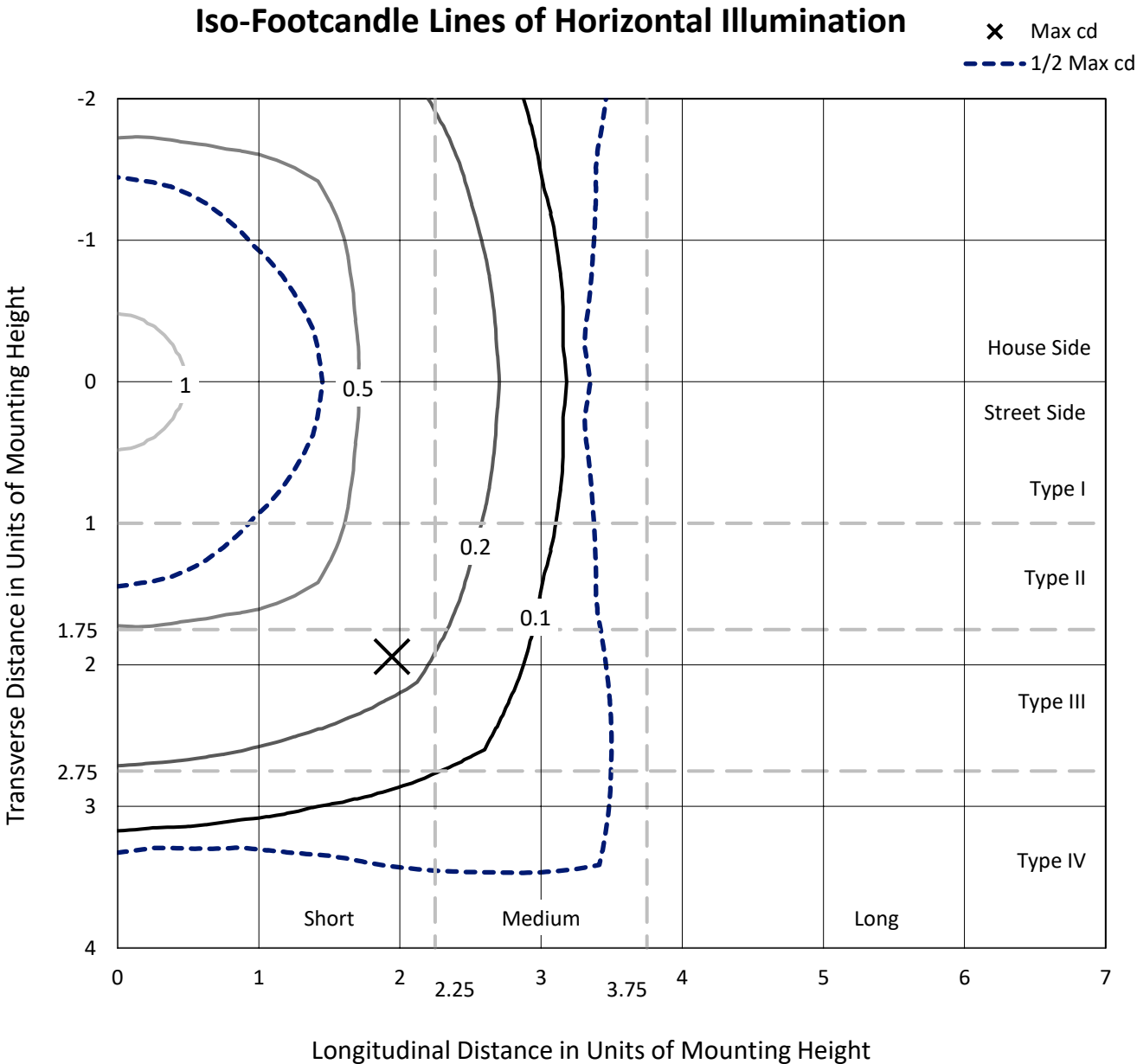
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9483.3 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 79.6
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



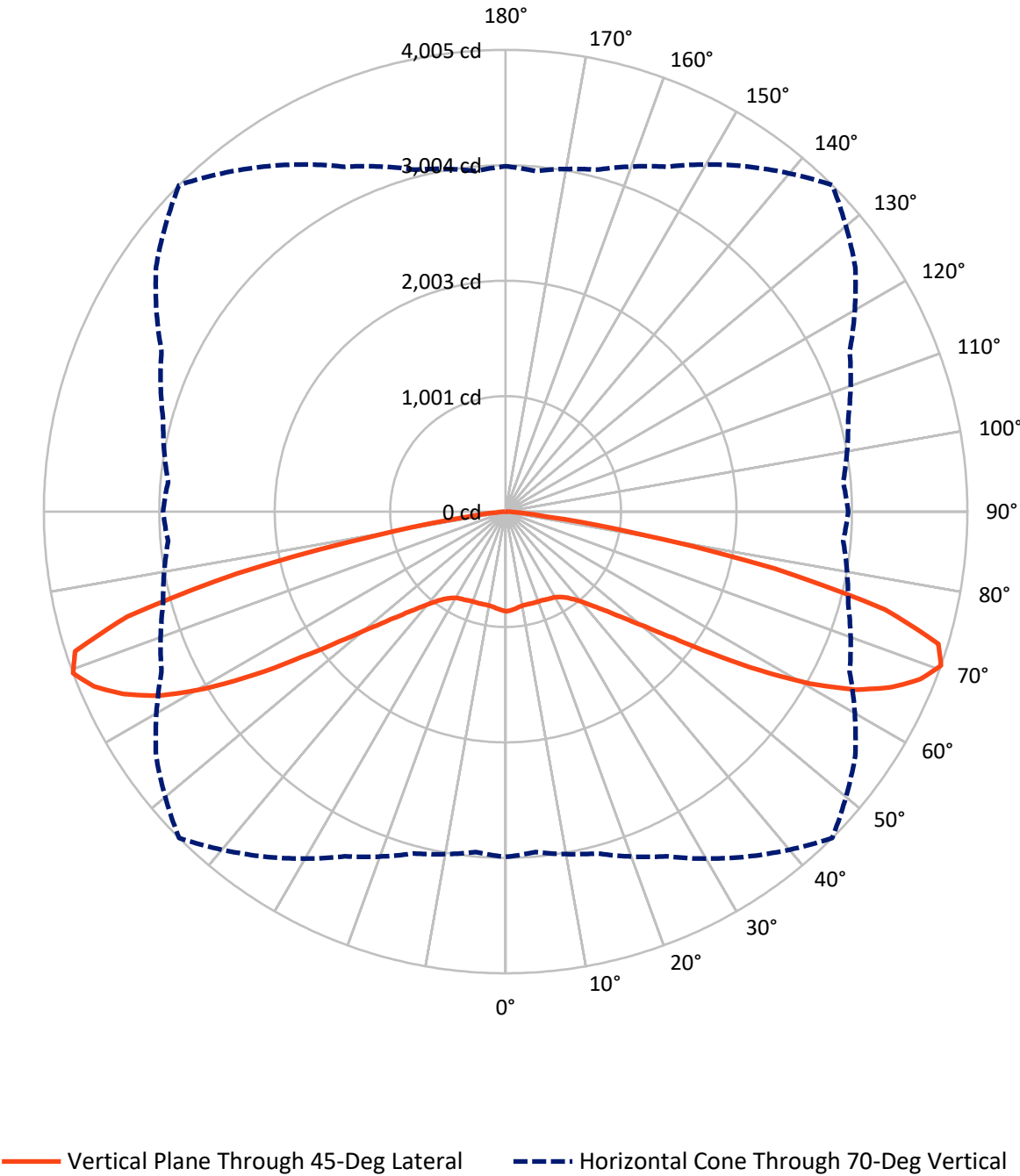
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Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4741.7	0.0	4741.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4741.7	0.0	4741.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	9483.3	0.0	9483.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.5	0.8
10°-20°	236.3	2.5
20°-30°	393.2	4.1
30°-40°	594.7	6.3
40°-50°	988.2	10.4
50°-60°	1864.7	19.7
60°-70°	3148.5	33.2
70°-80°	2068.9	21.8
80°-90°	108.4	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°	9483.3	100.0
0°-180°	9483.3	100.0

Coefficient of Utilization



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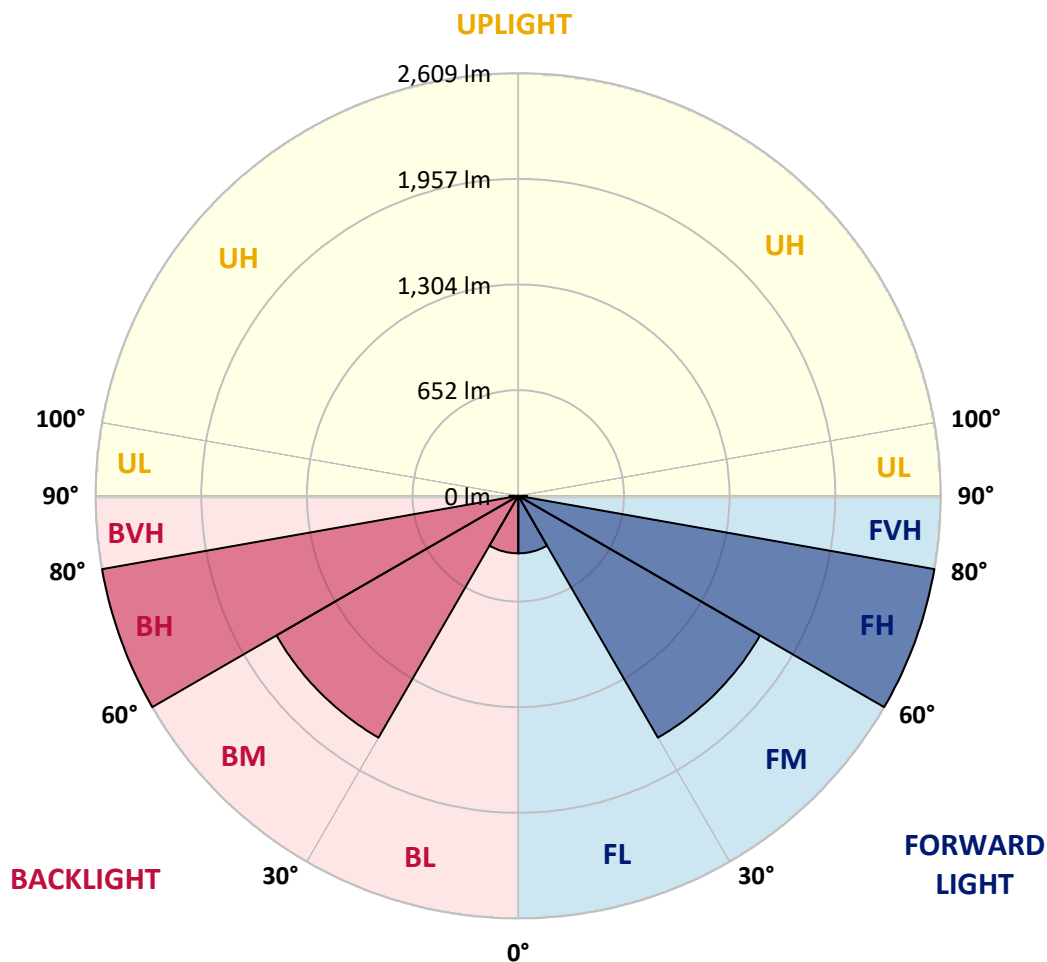
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	355.0	3.7			
FM	(30°-60°)	1723.7	18.2			
FH	(60°-80°)	2608.7	27.5			G2/5000
FVH	(80°-90°)	54.2	0.6			G1/100
BL	(0°-30°)	355.0	3.7	B1/500		
BM	(30°-60°)	1723.7	18.2	B2/2500		
BH	(60°-80°)	2608.7	27.5	B4/5000		G2/5000
BVH	(80°-90°)	54.2	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	865.1	865.1	865.1	865.1	865.1	865.1	865.1	865.1	865.1	865.1	865.1
2.5°	859.7	862.1	861.1	859.2	859.2	857.7	859.2	860.2	861.6	862.6	862.1
5°	848.3	850.2	849.8	848.3	848.8	847.4	848.3	849.8	850.7	851.3	851.3
7.5°	838.4	840.4	839.5	837.0	837.0	835.5	836.0	837.4	839.0	839.5	839.5
10°	836.0	837.9	835.0	831.1	829.5	827.6	828.1	829.5	832.5	834.0	834.0
12.5°	837.0	838.4	835.5	829.5	828.1	826.2	826.2	827.6	831.6	833.5	834.0
15°	839.9	841.4	837.0	830.6	829.1	827.6	827.1	829.1	833.5	837.0	837.4
17.5°	845.3	846.9	839.9	831.1	829.1	829.5	829.1	830.6	837.4	843.9	843.9
20°	850.2	851.3	841.9	831.1	829.1	829.5	829.1	832.0	840.9	849.8	850.2
22.5°	851.8	852.7	843.9	834.6	833.0	833.5	833.0	836.0	844.4	853.2	853.2
25°	852.3	853.7	846.9	839.5	841.9	842.9	841.9	842.3	848.8	856.7	856.2
27.5°	859.7	861.6	855.3	848.8	850.2	849.8	851.3	852.7	857.7	865.5	863.6
30°	874.9	876.4	870.9	864.6	863.6	860.2	864.6	869.5	874.9	881.8	880.4
32.5°	900.1	903.0	896.2	889.2	884.8	882.8	886.2	894.6	902.0	909.4	906.5
35°	942.0	943.9	937.6	924.8	916.9	916.9	919.7	930.6	942.5	951.8	948.3
37.5°	1001.1	1003.6	992.2	976.9	965.1	965.1	969.0	980.4	998.1	1011.5	1006.6
40°	1073.1	1076.6	1062.2	1046.4	1035.1	1033.2	1038.1	1050.9	1067.6	1084.4	1079.0
42.5°	1159.8	1163.8	1145.0	1131.3	1122.4	1122.4	1124.8	1136.6	1151.9	1172.6	1171.2
45°	1270.7	1277.7	1252.0	1238.2	1229.8	1231.8	1233.3	1243.6	1257.5	1281.0	1280.1
47.5°	1402.8	1409.8	1382.6	1368.4	1366.8	1376.3	1370.3	1377.7	1385.1	1412.2	1404.4
50°	1552.7	1564.6	1545.8	1544.8	1547.7	1565.0	1551.2	1555.1	1546.7	1564.0	1553.7
52.5°	1736.0	1753.3	1749.9	1755.7	1788.8	1824.3	1792.7	1778.9	1747.4	1752.9	1734.6
55°	1958.4	1984.5	1989.4	2024.9	2099.8	2172.3	2105.2	2049.6	1982.6	1970.2	1951.0
57.5°	2211.2	2231.9	2255.6	2328.1	2468.0	2596.6	2468.0	2344.8	2239.3	2214.2	2196.5
60°	2483.3	2508.9	2531.6	2638.6	2846.6	3027.4	2842.6	2647.0	2507.5	2473.4	2443.9
62.5°	2775.6	2808.6	2824.4	2943.2	3185.7	3401.6	3189.2	2952.1	2797.3	2760.8	2731.2
65°	3056.0	3083.2	3100.9	3227.6	3459.3	3675.6	3475.1	3241.5	3082.2	3034.4	3010.7
67.5°	3186.7	3201.5	3244.8	3388.3	3632.8	3879.7	3674.2	3403.6	3225.7	3141.8	3142.9
70°	2995.5	2965.4	3069.9	3299.6	3653.5	4005.0	3700.9	3292.7	3074.8	2938.8	2971.3
72.5°	2314.8	2263.0	2444.4	2837.2	3416.9	3925.1	3440.5	2859.4	2557.3	2281.2	2349.7
75°	1259.4	1200.8	1451.2	1948.0	2724.9	3402.1	2787.5	2003.7	1615.8	1250.0	1331.4
77.5°	355.4	333.2	535.4	942.5	1639.0	2388.7	1702.0	963.2	634.9	376.6	418.5
80°	109.0	105.5	143.0	283.9	696.0	1144.1	668.9	287.4	181.8	114.8	121.3
82.5°	64.6	59.1	70.9	103.5	177.4	359.4	172.5	107.9	86.7	58.1	63.1
85°	37.0	34.5	41.9	50.3	59.7	76.4	49.8	51.2	46.3	31.1	32.5
87.5°	15.3	13.8	16.3	15.8	13.8	17.7	13.3	15.8	18.8	12.3	11.4
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)