

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: P960987

Luminaire Tested: **NAV-SB1D-827-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960987
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-827-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9176.8 lumens
Efficiency: N/A
Efficacy: 115.3 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

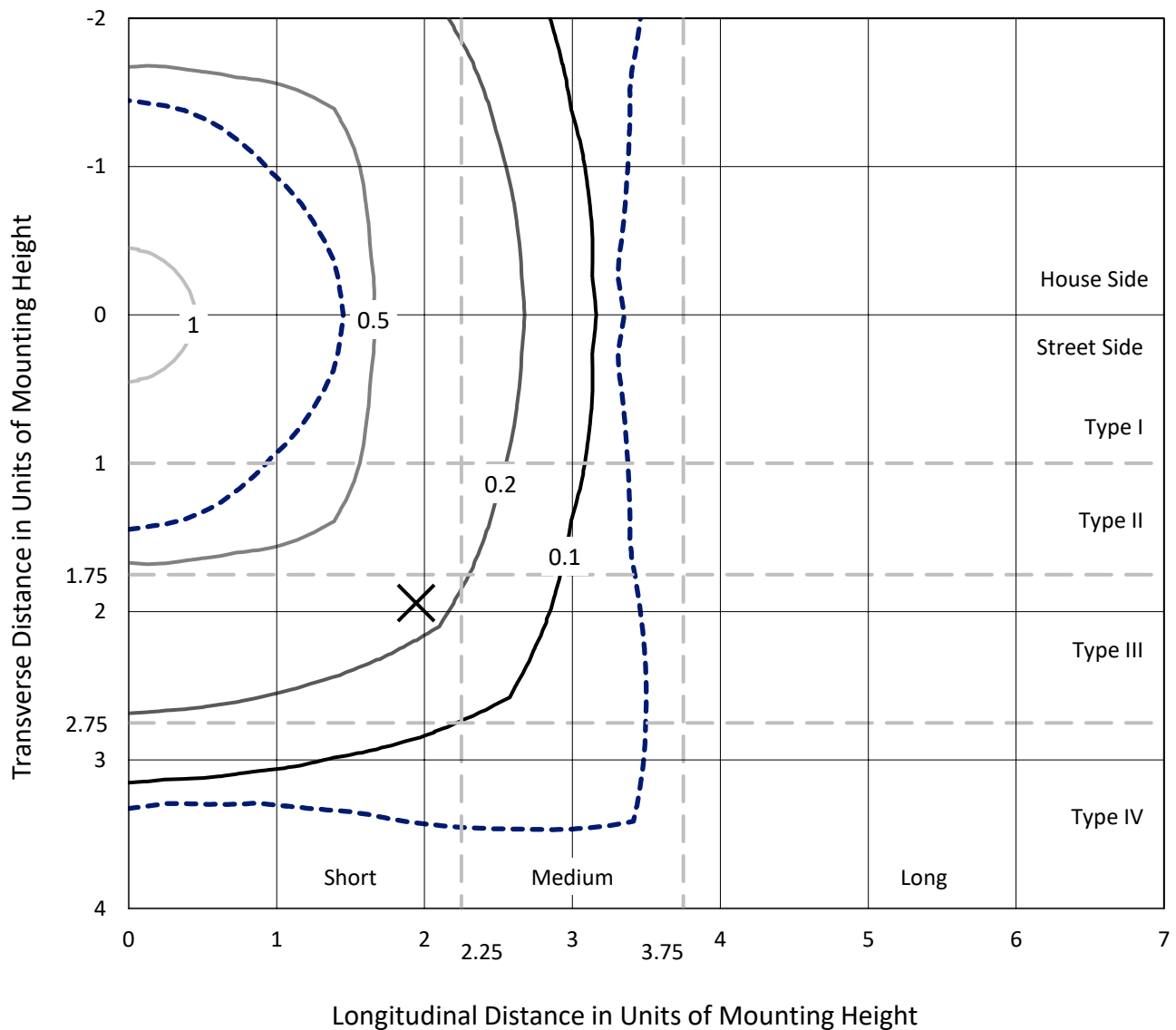


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Iso-Footcandle Lines of Horizontal Illumination

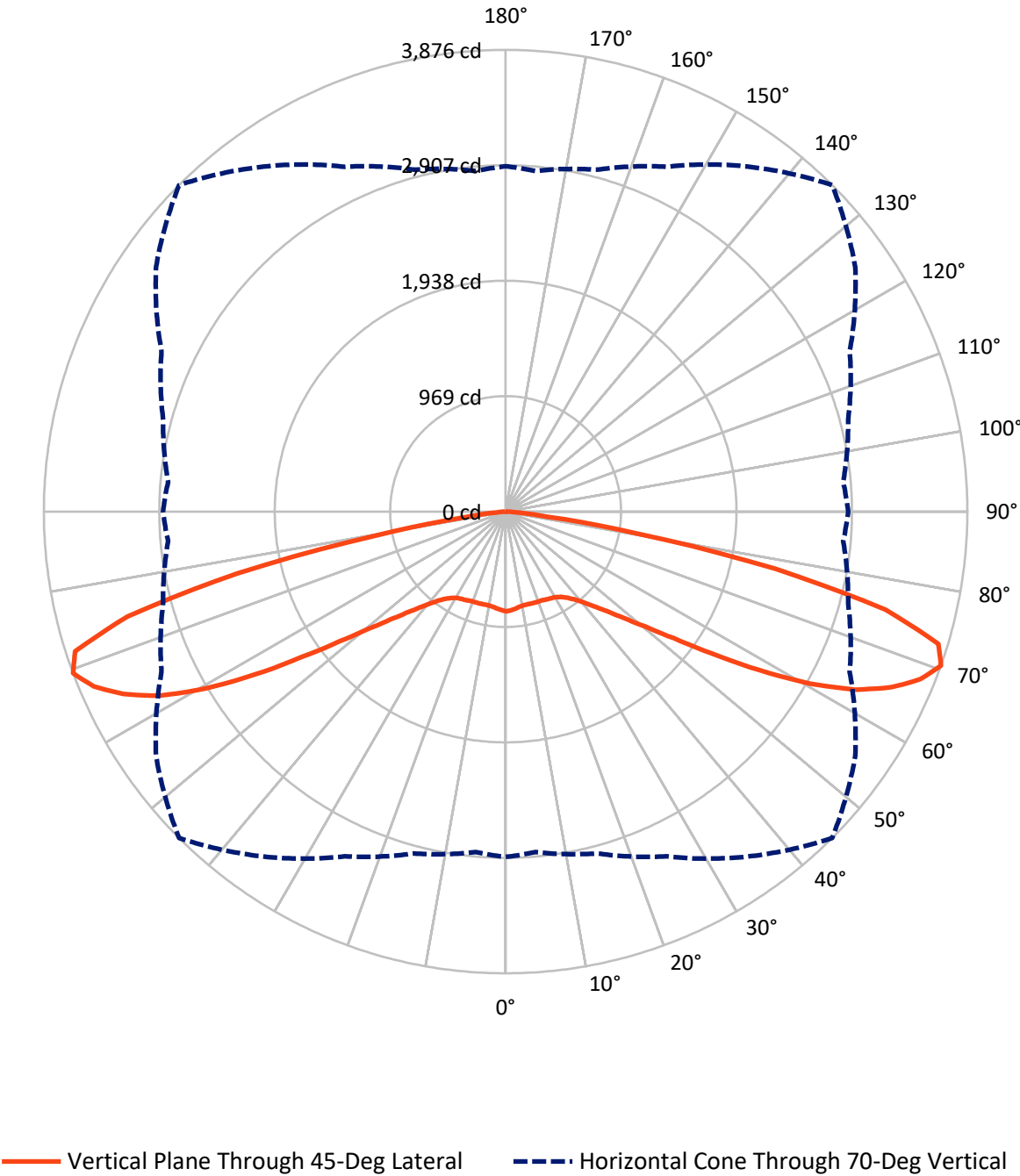
× Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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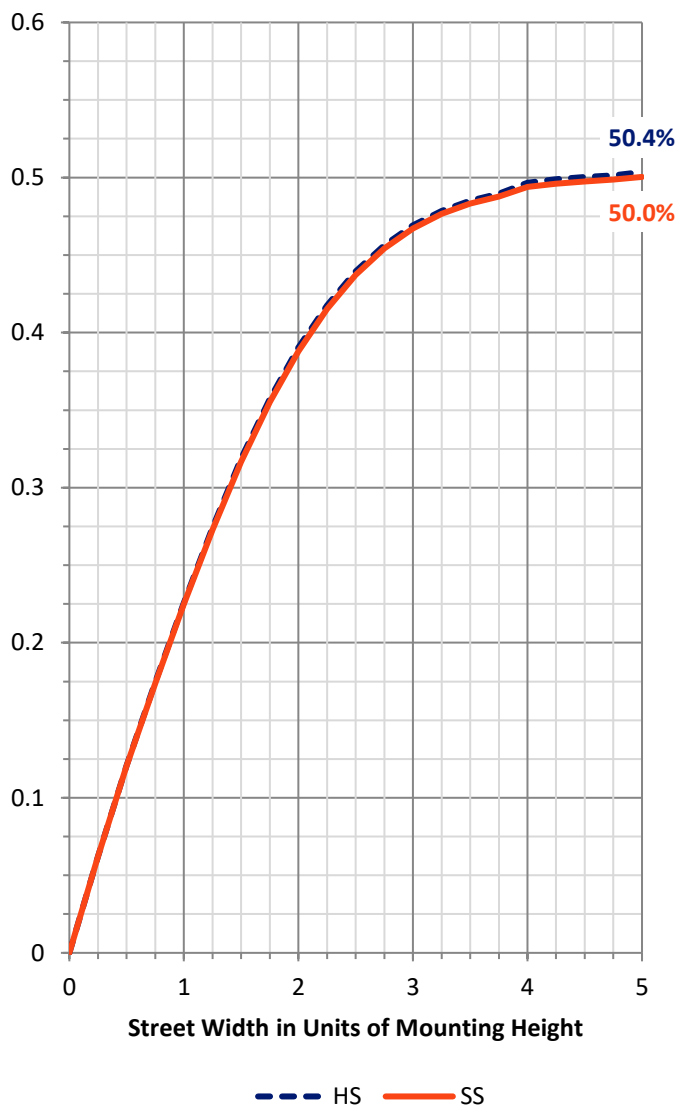
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4588.4	0.0	4588.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4588.4	0.0	4588.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	9176.8	0.0	9176.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	0.8
10°-20°	228.7	2.5
20°-30°	380.5	4.1
30°-40°	575.4	6.3
40°-50°	956.2	10.4
50°-60°	1804.4	19.7
60°-70°	3046.8	33.2
70°-80°	2002.1	21.8
80°-90°	104.9	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°	9176.8	100.0
0°-180°	9176.8	100.0

Coefficient of Utilization



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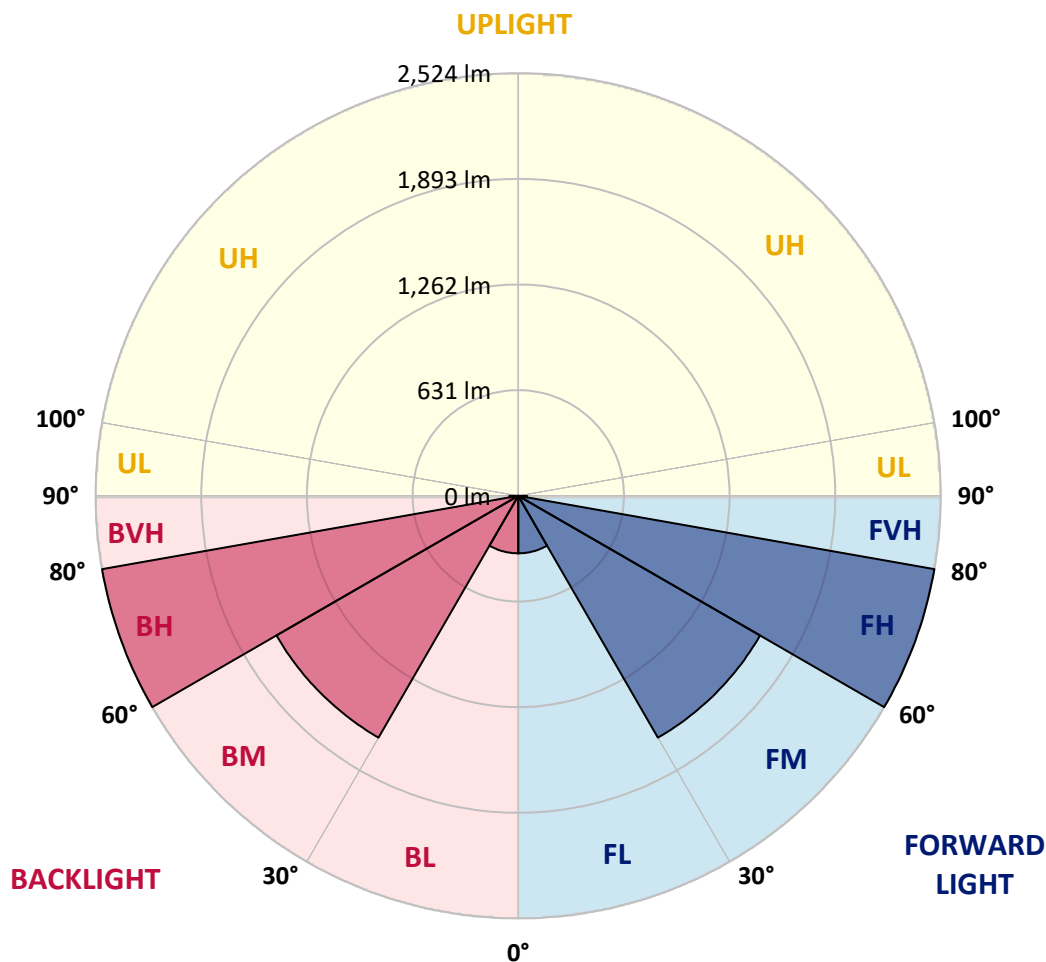
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	343.5	3.7			
FM	(30°-60°)	1668.0	18.2			
FH	(60°-80°)	2524.4	27.5			G2/5000
FVH	(80°-90°)	52.4	0.6			G1/100
BL	(0°-30°)	343.5	3.7	B1/500		
BM	(30°-60°)	1668.0	18.2	B2/2500		
BH	(60°-80°)	2524.4	27.5	B4/5000		G2/5000
BVH	(80°-90°)	52.4	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°	837.1	837.1	837.1	837.1	837.1	837.1	837.1	837.1	837.1	837.1	837.1
2.5°	831.9	834.2	833.3	831.4	831.4	829.9	831.4	832.3	833.7	834.8	834.2
5°	820.9	822.8	822.4	820.9	821.3	819.9	820.9	822.4	823.3	823.8	823.8
7.5°	811.4	813.2	812.3	810.0	810.0	808.5	808.9	810.4	811.8	812.3	812.3
10°	808.9	810.9	808.0	804.2	802.8	800.8	801.3	802.8	805.6	807.1	807.1
12.5°	810.0	811.4	808.5	802.8	801.3	799.4	799.4	800.8	804.6	806.6	807.1
15°	812.8	814.3	810.0	803.7	802.3	800.8	800.4	802.3	806.6	810.0	810.4
17.5°	818.1	819.5	812.8	804.2	802.3	802.8	802.3	803.7	810.4	816.6	816.6
20°	822.8	823.8	814.7	804.2	802.3	802.8	802.3	805.1	813.7	822.4	822.8
22.5°	824.2	825.2	816.6	807.5	806.1	806.6	806.1	808.9	817.0	825.6	825.6
25°	824.7	826.2	819.5	812.3	814.7	815.7	814.7	815.2	821.3	829.0	828.5
27.5°	831.9	833.7	827.6	821.3	822.8	822.4	823.8	825.2	829.9	837.6	835.7
30°	846.6	848.1	842.9	836.6	835.7	832.3	836.6	841.4	846.6	853.3	851.9
32.5°	870.9	873.8	867.2	860.5	856.2	854.2	857.6	865.7	872.9	880.1	877.2
35°	911.5	913.5	907.2	894.8	887.2	887.2	890.0	900.6	912.0	921.1	917.7
37.5°	968.7	971.2	960.2	945.4	934.0	934.0	937.8	948.7	965.9	978.8	974.1
40°	1038.4	1041.7	1027.9	1012.6	1001.6	999.8	1004.5	1016.9	1033.2	1049.4	1044.2
42.5°	1122.4	1126.2	1108.0	1094.7	1086.1	1086.1	1088.4	1099.9	1114.7	1134.8	1133.3
45°	1229.7	1236.4	1211.6	1198.2	1190.1	1192.0	1193.4	1203.5	1216.8	1239.7	1238.7
47.5°	1357.5	1364.2	1337.9	1324.1	1322.7	1331.8	1326.0	1333.2	1340.3	1366.5	1358.9
50°	1502.5	1513.9	1495.8	1494.9	1497.7	1514.4	1501.1	1504.9	1496.8	1513.5	1503.5
52.5°	1680.0	1696.7	1693.3	1699.0	1731.0	1765.4	1734.8	1721.5	1690.9	1696.2	1678.5
55°	1895.0	1920.3	1925.2	1959.5	2032.0	2102.1	2037.2	1983.3	1918.4	1906.5	1887.9
57.5°	2139.8	2159.8	2182.7	2252.8	2388.2	2512.8	2388.2	2269.0	2167.0	2142.7	2125.4
60°	2403.0	2427.8	2449.9	2553.3	2754.6	2929.7	2750.8	2561.4	2426.4	2393.5	2364.9
62.5°	2685.9	2717.9	2733.2	2848.1	3082.8	3291.7	3086.1	2856.7	2706.9	2671.6	2643.0
65°	2957.3	2983.6	3000.7	3123.3	3347.4	3556.9	3362.7	3136.7	2982.5	2936.3	2913.5
67.5°	3083.7	3098.1	3140.0	3278.8	3515.3	3754.4	3555.4	3293.6	3121.4	3040.4	3041.3
70°	2898.6	2869.6	2970.7	3193.0	3535.4	3875.5	3581.2	3186.3	2975.5	2843.8	2875.2
72.5°	2239.9	2189.8	2365.4	2745.6	3306.4	3798.2	3329.4	2767.0	2474.6	2207.5	2273.8
75°	1218.7	1161.9	1404.2	1885.1	2636.8	3292.2	2697.4	1939.0	1563.5	1209.6	1288.3
77.5°	343.9	322.5	518.0	912.0	1586.0	2311.5	1647.1	932.0	614.4	364.4	405.0
80°	105.4	102.1	138.4	274.7	673.5	1107.1	647.3	278.1	176.0	111.1	117.4
82.5°	62.5	57.2	68.7	100.1	171.7	347.7	167.0	104.4	83.9	56.3	61.1
85°	35.8	33.4	40.6	48.7	57.7	73.9	48.2	49.6	44.8	30.0	31.5
87.5°	14.8	13.3	15.8	15.3	13.3	17.2	12.9	15.3	18.1	11.9	11.0
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)