

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: P961049

Luminaire Tested: **NAV-SB1D-835-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961049
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-835-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9788.7 lumens
Efficiency: N/A
Efficacy: 123.0 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

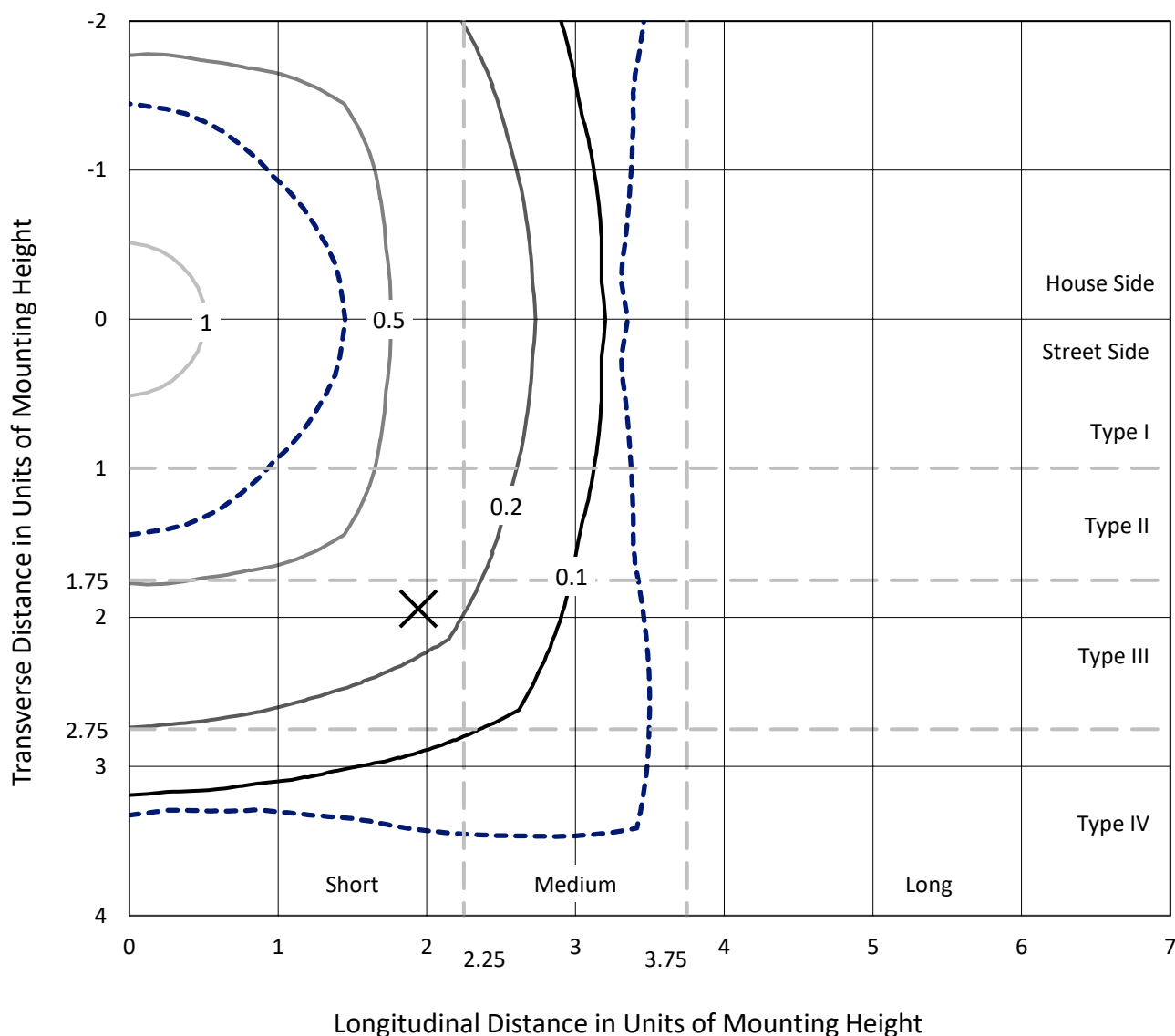
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

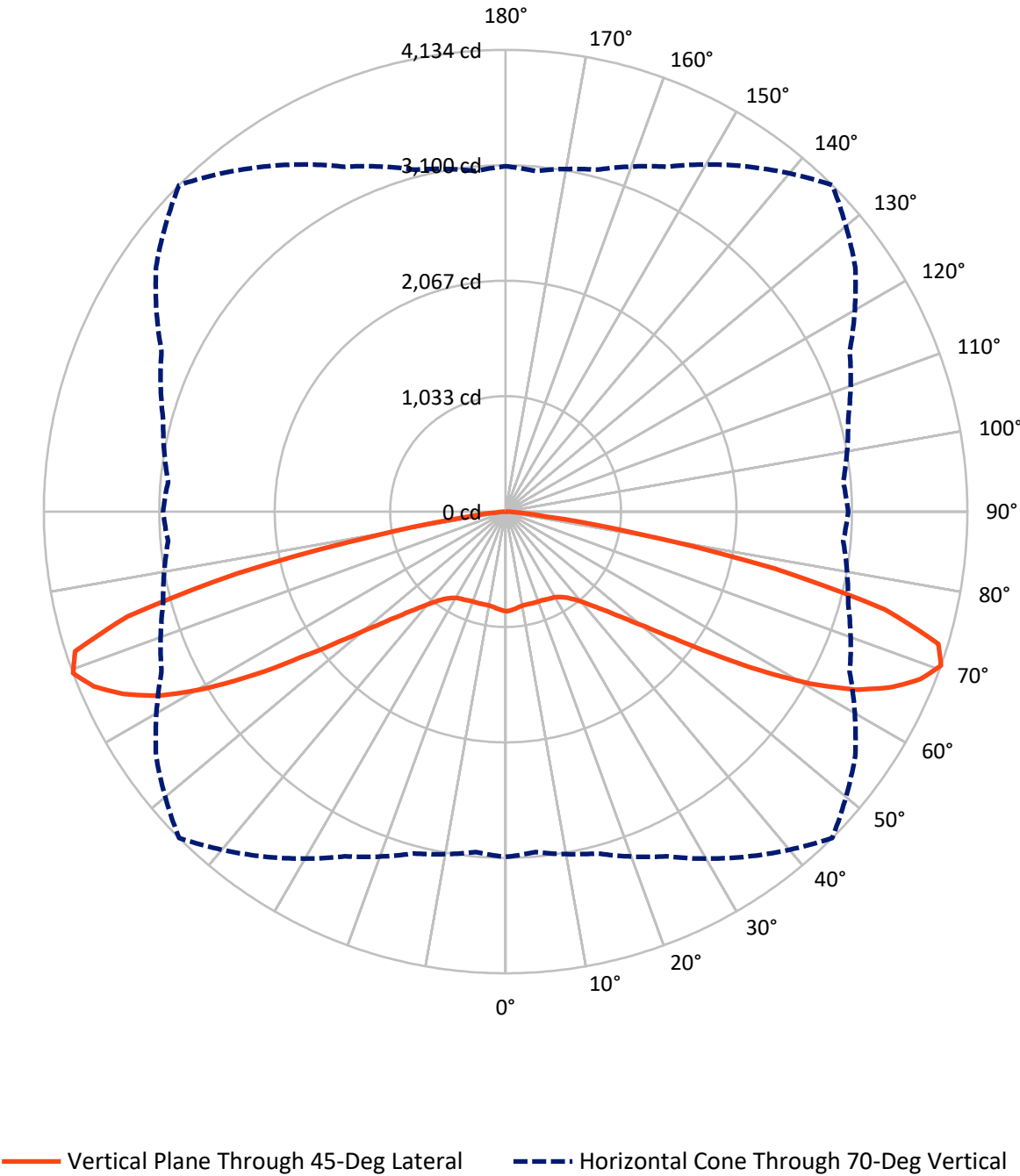
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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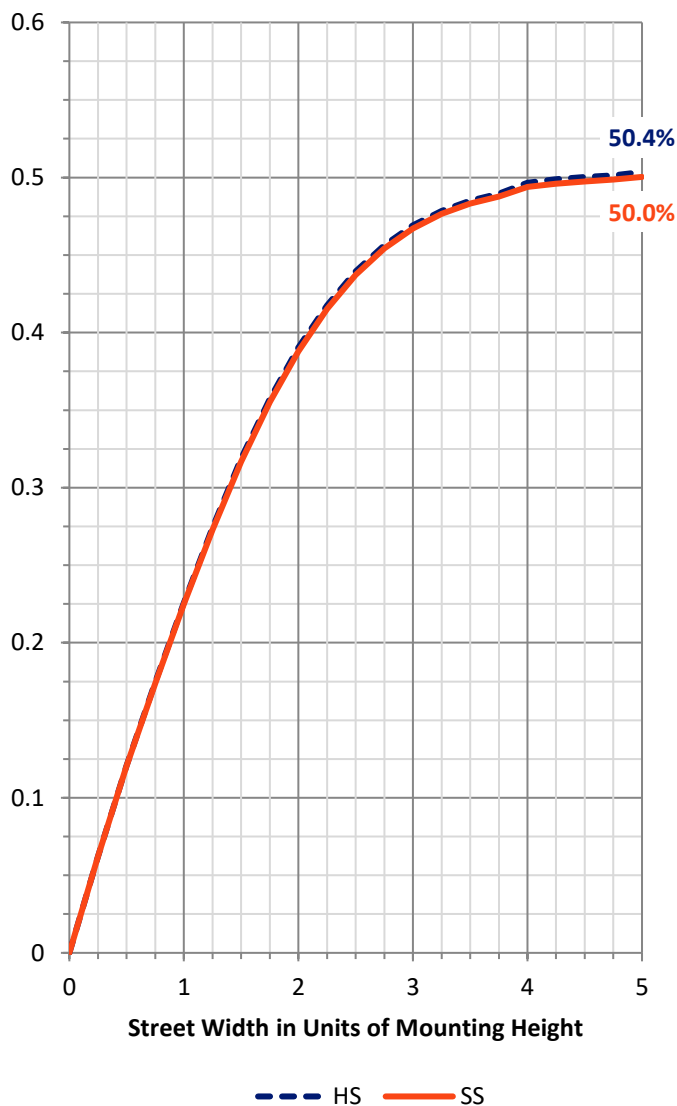
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4894.4	0.0	4894.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4894.4	0.0	4894.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	9788.7	0.0	9788.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.1	0.8
10°-20°	243.9	2.5
20°-30°	405.9	4.1
30°-40°	613.8	6.3
40°-50°	1020.0	10.4
50°-60°	1924.7	19.7
60°-70°	3249.9	33.2
70°-80°	2135.5	21.8
80°-90°	111.9	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°	9788.7	100.0
0°-180°	9788.7	100.0

Coefficient of Utilization



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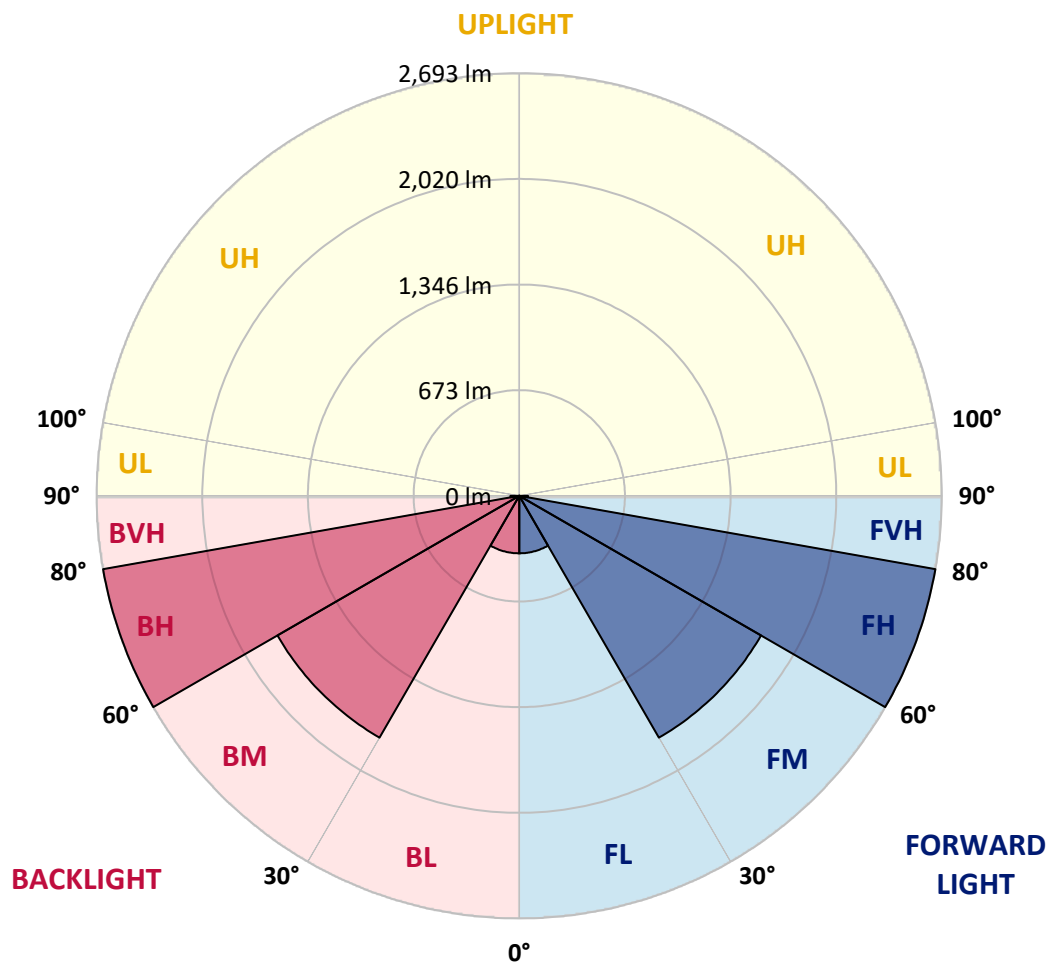
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	366.4	3.7			
FM	(30°-60°)	1779.3	18.2			
FH	(60°-80°)	2692.7	27.5			G2/5000
FVH	(80°-90°)	55.9	0.6			G1/100
BL	(0°-30°)	366.4	3.7	B1/500		
BM	(30°-60°)	1779.3	18.2	B2/2500		
BH	(60°-80°)	2692.7	27.5	B4/5000		G2/5000
BVH	(80°-90°)	55.9	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°	893.0	893.0	893.0	893.0	893.0	893.0	893.0	893.0	893.0	893.0	893.0
2.5°	887.3	889.9	888.9	886.8	886.8	885.3	886.8	887.9	889.4	890.4	889.9
5°	875.7	877.7	877.2	875.7	876.2	874.6	875.7	877.2	878.2	878.7	878.7
7.5°	865.4	867.5	866.4	864.0	864.0	862.4	862.9	864.5	865.9	866.4	866.4
10°	862.9	865.0	861.9	857.8	856.3	854.2	854.7	856.3	859.4	860.9	860.9
12.5°	864.0	865.4	862.4	856.3	854.7	852.7	852.7	854.2	858.3	860.4	860.9
15°	866.9	868.5	864.0	857.3	855.8	854.2	853.7	855.8	860.4	864.0	864.5
17.5°	872.6	874.1	866.9	857.8	855.8	856.3	855.8	857.3	864.5	871.0	871.0
20°	877.7	878.7	869.0	857.8	855.8	856.3	855.8	858.8	868.0	877.2	877.7
22.5°	879.1	880.2	871.0	861.4	859.9	860.4	859.9	862.9	871.6	880.7	880.7
25°	879.7	881.2	874.1	866.4	869.0	870.0	869.0	869.5	876.2	884.3	883.8
27.5°	887.3	889.4	882.7	876.2	877.7	877.2	878.7	880.2	885.3	893.4	891.4
30°	903.1	904.7	899.0	892.5	891.4	887.9	892.5	897.5	903.1	910.2	908.7
32.5°	929.1	932.1	925.0	917.9	913.3	911.2	914.8	923.4	931.1	938.7	935.6
35°	972.3	974.4	967.7	954.5	946.4	946.4	949.5	960.6	972.8	982.5	978.9
37.5°	1033.4	1035.9	1024.2	1008.4	996.2	996.2	1000.3	1012.0	1030.3	1044.1	1038.9
40°	1107.6	1111.2	1096.4	1080.1	1068.5	1066.4	1071.5	1084.8	1102.1	1119.3	1113.8
42.5°	1197.2	1201.3	1181.9	1167.7	1158.6	1158.6	1161.0	1173.3	1189.0	1210.4	1208.9
45°	1311.7	1318.8	1292.3	1278.1	1269.5	1271.5	1273.0	1283.7	1298.0	1322.4	1321.3
47.5°	1448.0	1455.2	1427.2	1412.4	1410.9	1420.5	1414.4	1422.1	1429.7	1457.7	1449.6
50°	1602.7	1614.9	1595.6	1594.6	1597.6	1615.4	1601.2	1605.3	1596.6	1614.4	1603.7
52.5°	1792.0	1809.7	1806.3	1812.3	1846.4	1883.0	1850.4	1836.2	1803.7	1809.2	1790.5
55°	2021.4	2048.4	2053.5	2090.1	2167.5	2242.3	2173.1	2115.6	2046.4	2033.6	2013.8
57.5°	2282.5	2303.8	2328.2	2403.0	2547.5	2680.3	2547.5	2420.3	2311.5	2285.5	2267.2
60°	2563.3	2589.8	2613.1	2723.5	2938.3	3125.0	2934.2	2732.2	2588.2	2553.2	2522.6
62.5°	2865.0	2899.1	2915.4	3038.0	3288.3	3511.1	3291.9	3047.1	2887.4	2849.7	2819.3
65°	3154.5	3182.5	3200.8	3331.6	3570.7	3794.0	3587.0	3345.8	3181.5	3132.1	3107.7
67.5°	3289.3	3304.6	3349.4	3497.4	3749.8	4004.7	3792.5	3513.2	3329.5	3243.0	3244.0
70°	3091.9	3060.9	3168.8	3405.9	3771.2	4133.9	3820.0	3398.7	3173.8	3033.4	3067.0
72.5°	2389.3	2335.9	2523.1	2928.6	3526.9	4051.5	3551.4	2951.5	2639.6	2354.7	2425.5
75°	1300.0	1239.4	1497.9	2010.7	2812.6	3511.6	2877.2	2068.2	1667.8	1290.3	1374.2
77.5°	366.8	344.0	552.6	972.8	1691.8	2465.6	1756.8	994.1	655.3	388.7	431.9
80°	112.4	108.9	147.6	293.0	718.4	1180.9	690.4	296.6	187.8	118.6	125.2
82.5°	66.6	61.1	73.3	106.8	183.2	370.9	178.0	111.4	89.6	60.1	65.1
85°	38.1	35.6	43.3	51.9	61.6	78.8	51.4	52.9	47.9	32.1	33.6
87.5°	15.8	14.2	16.8	16.3	14.2	18.3	13.7	16.3	19.4	12.7	11.7
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)