

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: P961545

Luminaire Tested: **NAV-SB2A-830-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961545
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-SB2A-830-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8356.8 lumens
Efficiency: N/A
Efficacy: 145.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

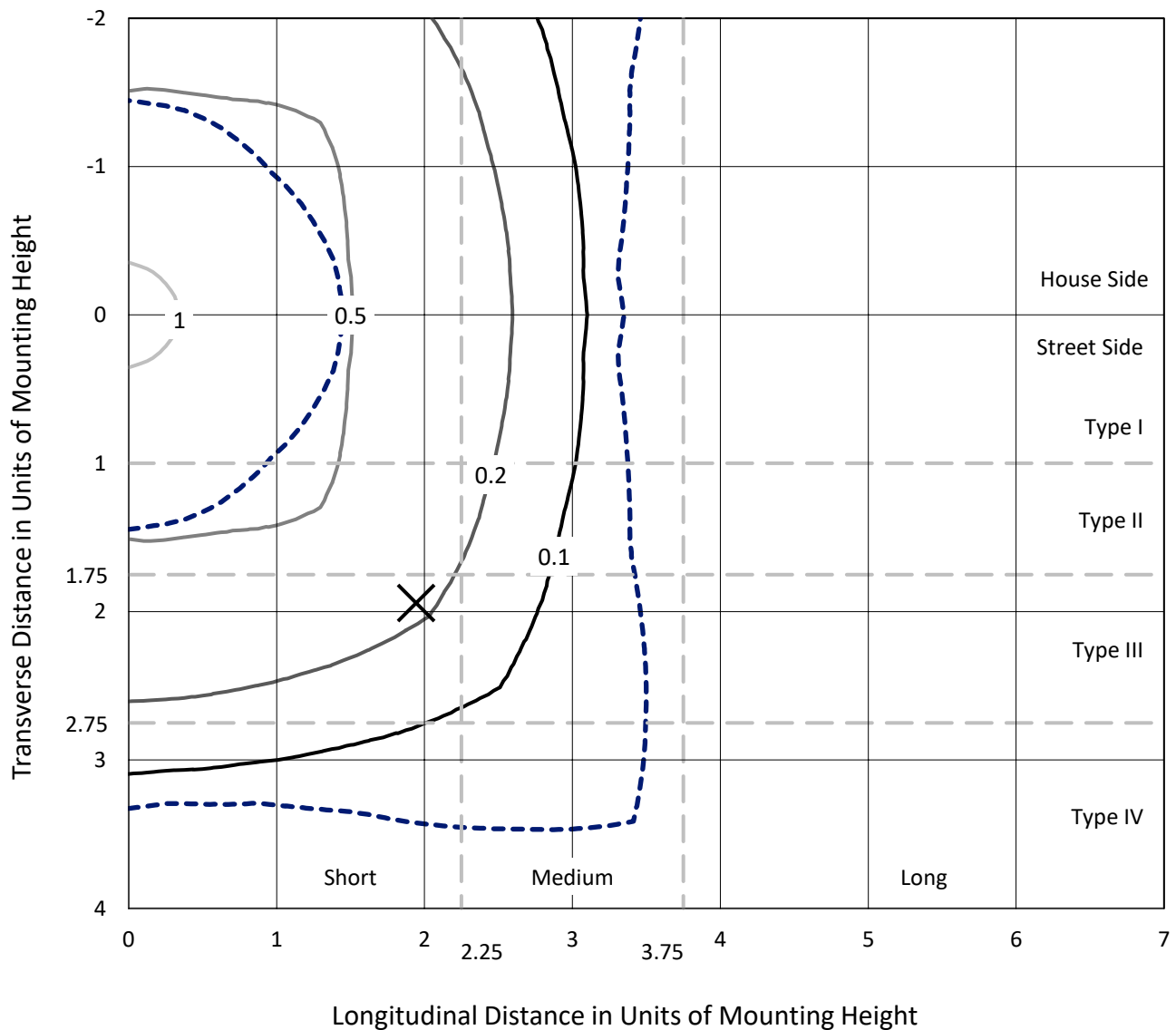
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

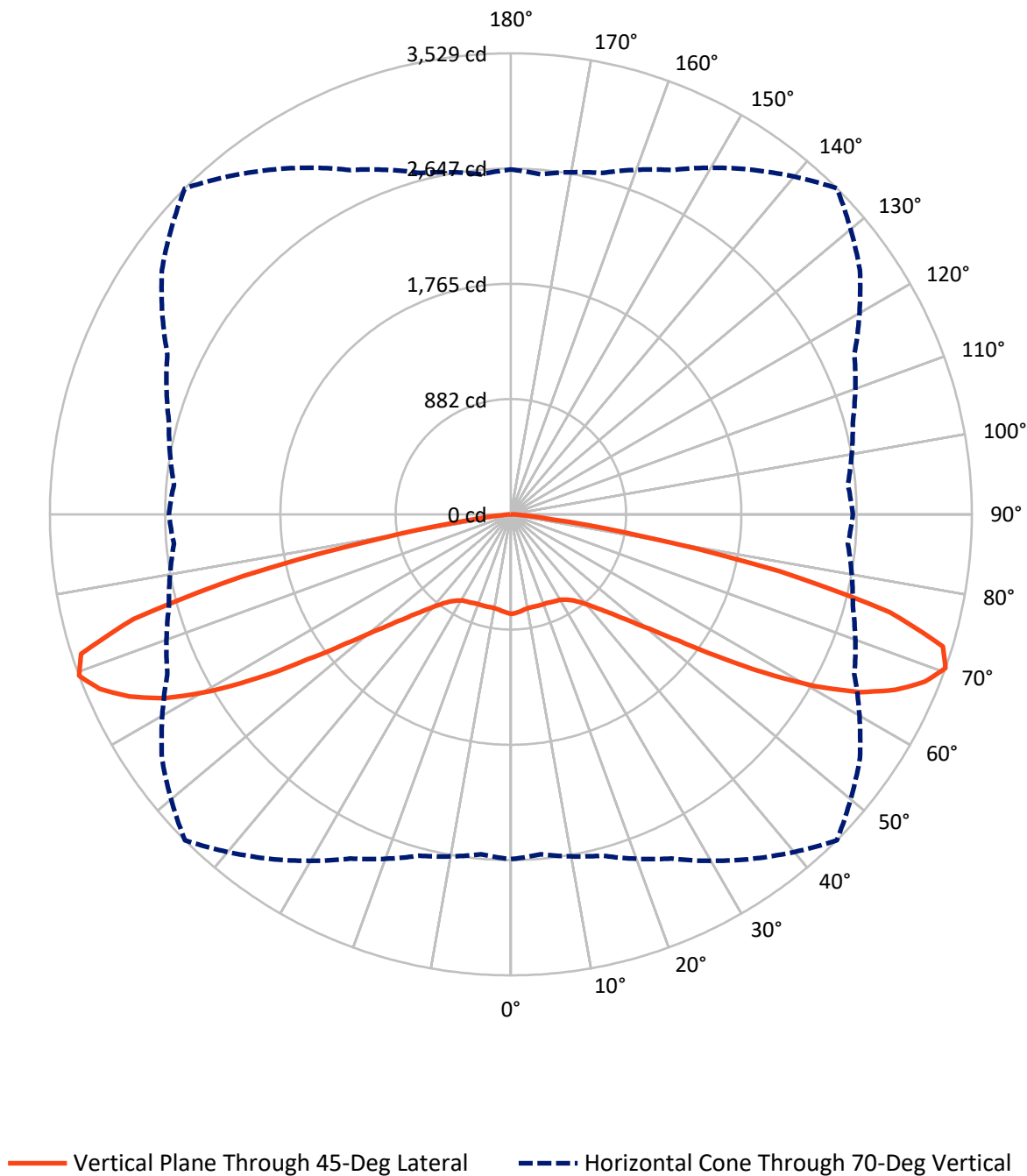
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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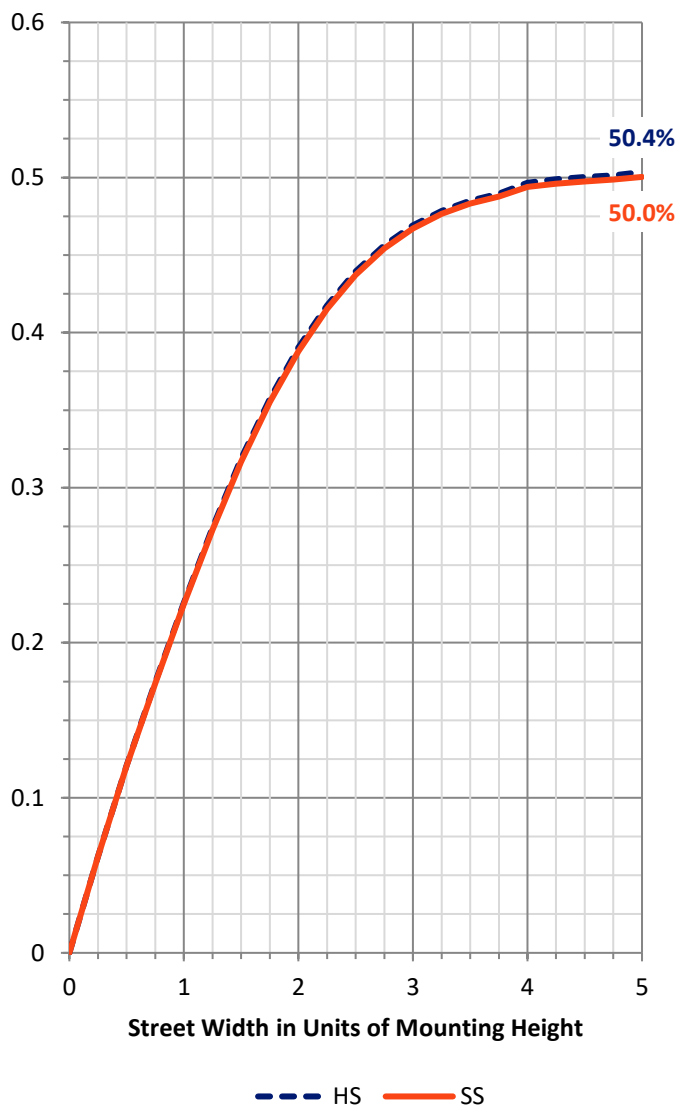
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4178.4	0.0	4178.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4178.4	0.0	4178.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	8356.8	0.0	8356.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.9	0.8
10°-20°	208.2	2.5
20°-30°	346.5	4.1
30°-40°	524.0	6.3
40°-50°	870.8	10.4
50°-60°	1643.2	19.7
60°-70°	2774.5	33.2
70°-80°	1823.2	21.8
80°-90°	95.5	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°	8356.8	100.0
0°-180°	8356.8	100.0

Coefficient of Utilization



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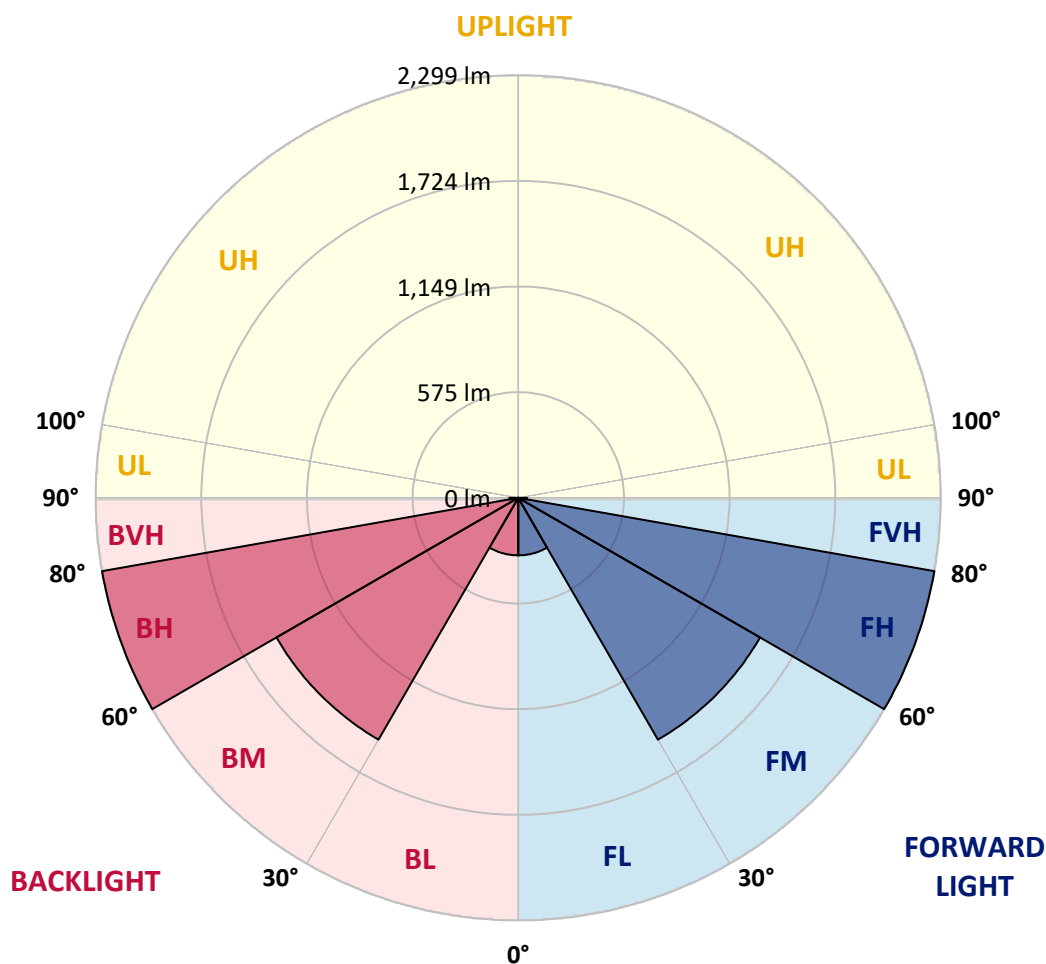
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	312.8	3.7			
FM	(30°-60°)	1519.0	18.2			
FH	(60°-80°)	2298.8	27.5			G2/5000
FVH	(80°-90°)	47.8	0.6			G1/100
BL	(0°-30°)	312.8	3.7	B1/500		
BM	(30°-60°)	1519.0	18.2	B2/2500		
BH	(60°-80°)	2298.8	27.5	B3/2500		G2/5000
BVH	(80°-90°)	47.8	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	762.3	762.3	762.3	762.3	762.3	762.3	762.3	762.3	762.3	762.3	762.3
2.5°	757.6	759.7	758.8	757.1	757.1	755.8	757.1	758.0	759.3	760.1	759.7
5°	747.5	749.3	748.9	747.5	747.9	746.7	747.5	748.9	749.7	750.2	750.2
7.5°	738.8	740.6	739.7	737.6	737.6	736.3	736.7	738.0	739.3	739.7	739.7
10°	736.7	738.4	735.8	732.4	731.0	729.3	729.7	731.0	733.6	734.9	734.9
12.5°	737.6	738.8	736.3	731.0	729.7	728.0	728.0	729.3	732.8	734.5	734.9
15°	740.2	741.5	737.6	732.0	730.6	729.3	728.9	730.6	734.5	737.6	738.0
17.5°	745.0	746.2	740.2	732.4	730.6	731.0	730.6	732.0	738.0	743.6	743.6
20°	749.3	750.2	741.9	732.4	730.6	731.0	730.6	733.2	741.1	748.9	749.3
22.5°	750.6	751.4	743.6	735.3	734.1	734.5	734.1	736.7	744.0	751.8	751.8
25°	751.0	752.3	746.2	739.7	741.9	742.7	741.9	742.3	747.9	754.9	754.5
27.5°	757.6	759.3	753.6	747.9	749.3	748.9	750.2	751.4	755.8	762.7	761.0
30°	771.0	772.3	767.5	761.9	761.0	758.0	761.9	766.2	771.0	777.1	775.8
32.5°	793.1	795.7	789.7	783.6	779.7	778.0	780.9	788.3	794.9	801.4	798.8
35°	830.0	831.8	826.2	814.9	807.9	807.9	810.6	820.1	830.5	838.8	835.7
37.5°	882.2	884.4	874.4	860.9	850.4	850.4	853.9	864.0	879.6	891.3	886.9
40°	945.6	948.6	936.0	922.2	912.1	910.4	914.8	926.1	940.8	955.6	950.8
42.5°	1022.0	1025.5	1009.0	996.9	989.0	989.0	991.2	1001.6	1015.2	1033.4	1032.1
45°	1119.8	1125.9	1103.3	1091.1	1083.7	1085.5	1086.8	1095.9	1108.0	1128.9	1128.0
47.5°	1236.3	1242.3	1218.4	1205.8	1204.5	1212.8	1207.6	1214.0	1220.6	1244.5	1237.5
50°	1368.3	1378.6	1362.1	1361.3	1363.9	1379.1	1366.9	1370.4	1363.0	1378.2	1369.1
52.5°	1529.8	1545.1	1542.0	1547.2	1576.3	1607.6	1579.8	1567.6	1539.9	1544.6	1528.5
55°	1725.7	1748.8	1753.1	1784.4	1850.4	1914.3	1855.1	1806.0	1747.0	1736.1	1719.2
57.5°	1948.5	1966.8	1987.7	2051.5	2174.8	2288.2	2174.8	2066.3	1973.3	1951.2	1935.5
60°	2188.4	2210.9	2230.9	2325.1	2508.5	2667.9	2505.0	2332.5	2209.6	2179.7	2153.6
62.5°	2446.0	2475.0	2488.9	2593.6	2807.3	2997.5	2810.3	2601.4	2465.0	2432.8	2406.8
65°	2693.1	2717.0	2732.5	2844.3	3048.4	3239.1	3062.3	2856.4	2716.0	2673.9	2653.1
67.5°	2808.2	2821.2	2859.4	2985.8	3201.3	3418.9	3237.8	2999.3	2842.5	2768.6	2769.5
70°	2639.7	2613.1	2705.2	2907.6	3219.5	3529.2	3261.2	2901.6	2709.6	2589.7	2618.4
72.5°	2039.7	1994.1	2154.0	2500.2	3011.0	3458.9	3031.8	2519.8	2253.5	2010.2	2070.6
75°	1109.8	1058.1	1278.8	1716.6	2401.2	2998.0	2456.3	1765.7	1423.8	1101.6	1173.2
77.5°	313.1	293.7	471.7	830.5	1444.2	2104.9	1499.9	848.7	559.4	331.9	368.8
80°	96.0	93.0	126.0	250.2	613.4	1008.2	589.5	253.3	160.3	101.2	106.8
82.5°	56.9	52.2	62.5	91.2	156.4	316.6	152.0	95.1	76.5	51.2	55.6
85°	32.6	30.4	36.9	44.3	52.6	67.3	43.9	45.2	40.8	27.4	28.7
87.5°	13.4	12.2	14.3	13.9	12.2	15.7	11.7	13.9	16.5	10.9	9.9
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)