

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: P881775

Luminaire Tested: **NAV-SB1B-830-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881775
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-830-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4878 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

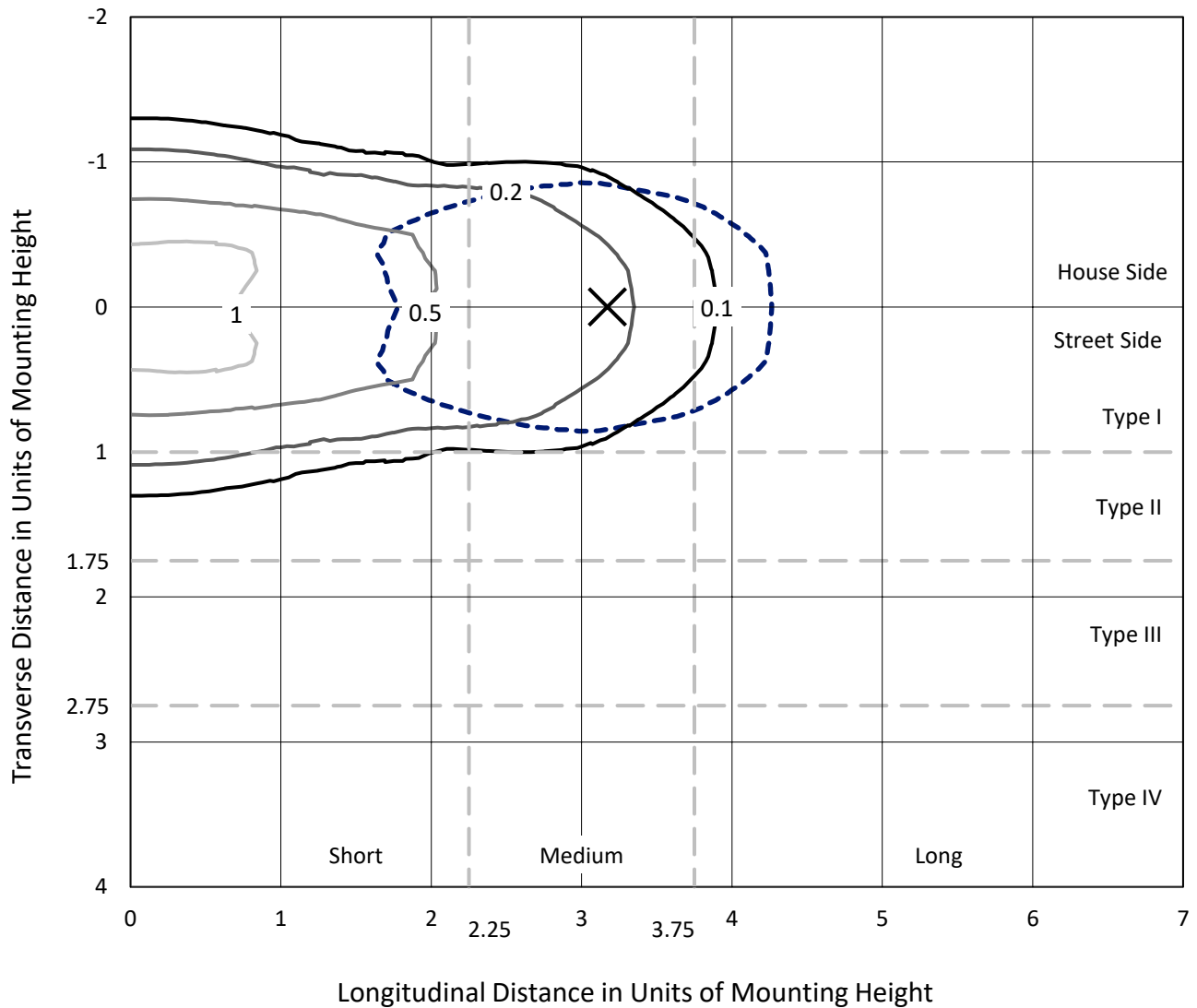
Input Watts (W): 39.8
Input Voltage (V): 120.0
Input Current (Ain): 0.33
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.305
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P881775
 CATALOG NUMBER: NAV-SB1B-830-U-T1

Iso-Footcandle Lines of Horizontal Illumination

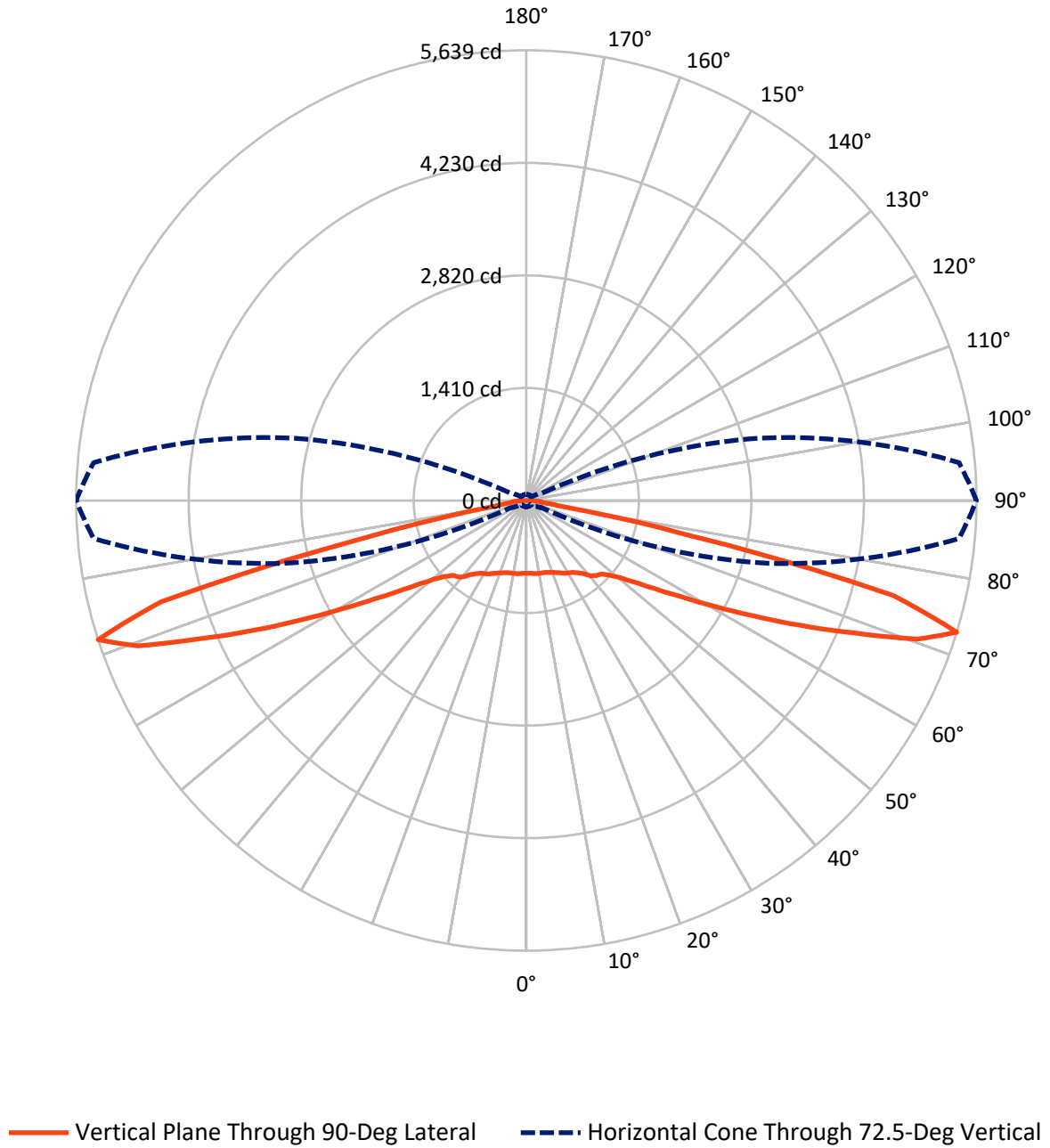
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type I - Short - N/A

REPORT NUMBER: P881775
CATALOG NUMBER: NAV-SB1B-830-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P881775
 CATALOG NUMBER: NAV-SB1B-830-U-T1

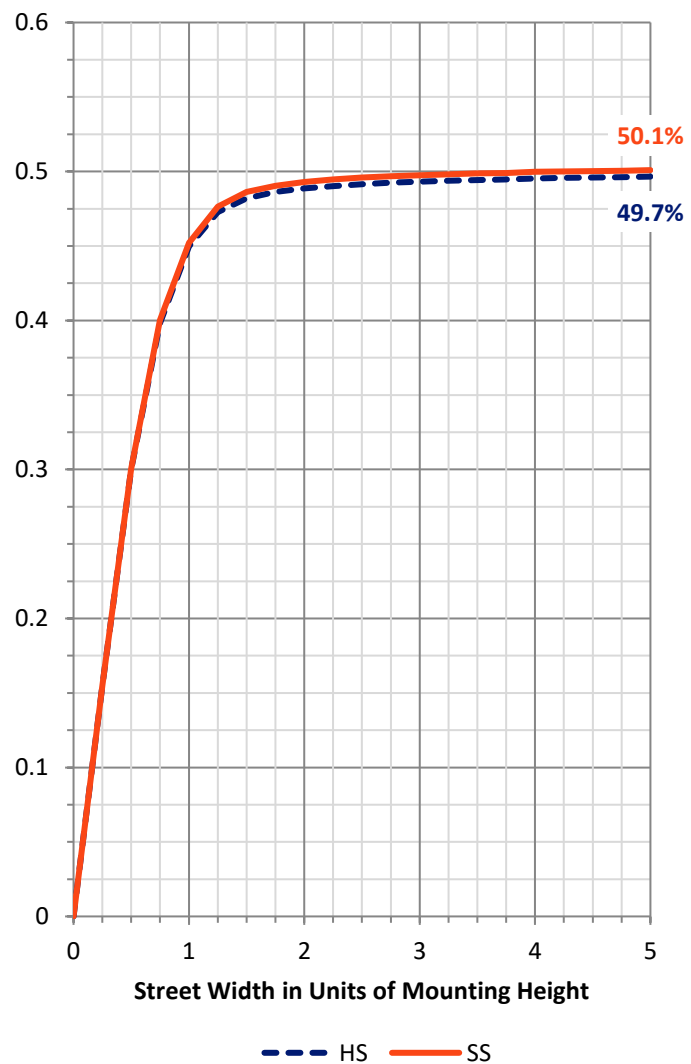
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2439.0	0.0	2439.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2439.0	0.0	2439.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4878.0	0.0	4878.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	1.8
10°-20°	270.2	5.5
20°-30°	450.6	9.2
30°-40°	619.7	12.7
40°-50°	756.8	15.5
50°-60°	875.3	17.9
60°-70°	1043.7	21.4
70°-80°	728.5	14.9
80°-90°	44.7	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°	4878.0	100.0
0°-180°	4878.0	100.0

Coefficient of Utilization



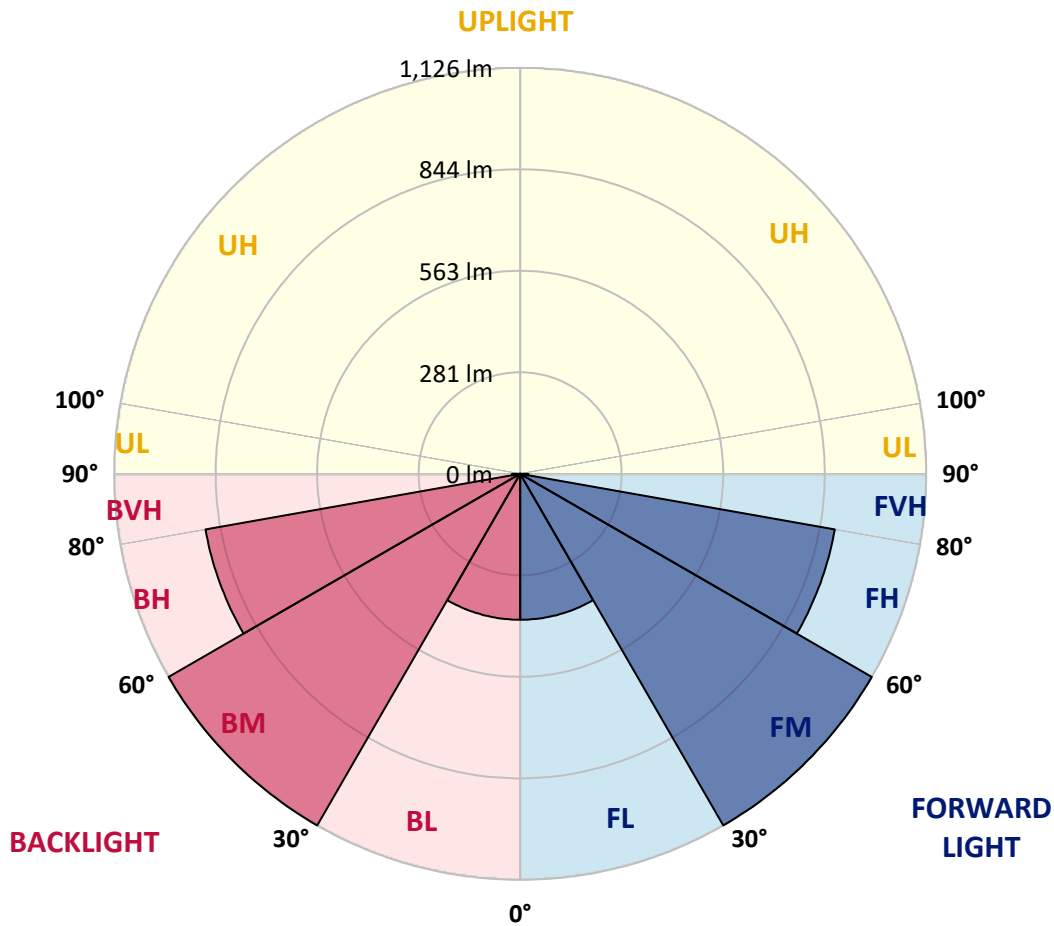
REPORT NUMBER: P881775
 CATALOG NUMBER: NAV-SB1B-830-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	404.6	8.3			
FM (30°-60°)	1125.9	23.1			
FH (60°-80°)	886.1	18.2			G1/1800
FVH (80°-90°)	22.4	0.5			G1/100
BL (0°-30°)	404.6	8.3	B1/500		
BM (30°-60°)	1125.9	23.1	B2/2500		
BH (60°-80°)	886.1	18.2	B2/1000		G2/1000
BVH (80°-90°)	22.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type I Short



REPORT NUMBER: P881775
 CATALOG NUMBER: NAV-SB1B-830-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	911.5	911.5	911.5	911.5	911.5	911.5	911.5	911.5	911.5	911.5	911.5
2.5°	912.3	913.3	913.3	912.5	914.4	912.8	912.8	912.0	912.8	912.0	912.0
5°	916.9	918.2	918.8	918.5	920.8	919.5	919.5	918.5	918.8	918.0	918.0
7.5°	925.8	927.6	928.6	929.9	933.3	931.7	930.7	927.6	926.3	924.2	924.2
10°	928.6	930.7	934.1	940.8	948.6	948.8	945.7	937.9	932.0	927.3	926.5
12.5°	919.8	922.7	929.7	943.4	960.8	967.8	962.8	949.9	938.2	929.9	928.6
15°	908.7	911.8	922.4	943.1	968.8	985.1	984.6	967.5	948.8	935.9	933.8
17.5°	891.3	894.4	909.7	938.7	975.0	1002.0	1009.2	991.6	965.4	948.1	945.2
20°	859.9	862.8	884.0	924.7	977.1	1019.9	1038.8	1023.2	990.6	967.0	962.6
22.5°	819.2	823.6	848.5	900.6	972.2	1038.5	1072.5	1061.9	1019.9	987.2	981.2
25°	775.7	780.3	809.4	871.1	959.5	1052.0	1112.4	1105.7	1053.1	1012.4	1004.1
27.5°	738.1	743.0	774.6	841.8	939.8	1057.2	1151.8	1155.2	1093.2	1040.1	1031.3
30°	708.5	713.2	746.9	818.2	914.4	1052.0	1186.3	1209.6	1134.2	1064.2	1051.5
32.5°	676.1	682.1	717.6	789.4	884.3	1039.6	1216.4	1268.5	1181.6	1090.1	1074.1
35°	635.2	640.6	677.9	750.0	844.9	1019.6	1241.5	1333.8	1249.6	1129.5	1111.6
37.5°	585.4	590.6	627.6	700.7	805.7	991.6	1260.7	1407.4	1330.4	1186.3	1162.5
40°	535.3	540.3	575.0	645.8	758.8	955.8	1267.4	1479.5	1423.3	1264.3	1238.9
42.5°	489.5	493.9	525.7	591.6	706.2	910.2	1258.6	1542.2	1506.5	1318.8	1286.1
45°	447.2	451.1	479.3	540.8	651.5	854.7	1232.2	1609.7	1605.5	1357.7	1313.6
47.5°	399.0	402.9	432.2	491.5	596.8	789.7	1187.3	1676.0	1743.2	1445.8	1395.0
50°	340.1	343.5	373.6	434.8	540.0	720.4	1125.1	1728.1	1916.9	1579.3	1515.5
52.5°	270.4	274.0	303.3	364.5	472.6	646.0	1043.2	1762.1	2117.5	1774.3	1695.7
55°	201.2	203.8	229.2	284.1	389.1	561.3	940.5	1771.7	2345.1	2040.8	1942.5
57.5°	146.0	147.5	163.8	204.8	295.0	455.2	815.8	1746.8	2616.0	2382.5	2258.8
60°	118.2	118.7	123.7	141.8	205.1	335.5	665.2	1661.2	2910.0	2822.9	2667.1
62.5°	107.3	107.3	108.6	113.5	138.7	221.4	483.0	1483.9	3225.3	3379.5	3170.8
65°	99.8	99.8	100.3	102.7	109.4	141.0	304.9	1195.1	3491.0	4031.5	3767.6
67.5°	93.1	93.3	93.1	93.8	97.7	104.2	176.8	825.4	3634.1	4707.1	4422.2
70°	86.1	86.6	85.3	85.3	88.4	88.7	110.7	452.6	3515.4	5273.3	5198.4
72.5°	77.8	78.6	76.5	76.0	78.3	77.3	83.2	217.2	3018.1	5442.3	5639.4
75°	70.5	71.6	66.9	65.6	65.6	64.8	67.7	111.5	1958.9	4439.6	4748.6
77.5°	64.0	66.1	58.6	54.4	53.4	51.1	55.2	68.2	856.8	2084.3	2041.0
80°	52.9	55.7	48.2	43.3	41.5	38.9	43.6	47.7	254.8	484.0	463.5
82.5°	39.4	40.7	34.2	30.9	29.3	27.5	32.7	33.2	83.0	171.4	193.7
85°	25.1	25.7	21.0	18.1	17.4	16.6	20.7	18.1	31.6	126.0	183.0
87.5°	8.8	10.1	8.0	7.3	7.8	6.5	9.6	5.4	8.8	88.9	110.2
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)