

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: P881945

Luminaire Tested: **NAV-SB1C-830-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881945
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-SB1C-830-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6488 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

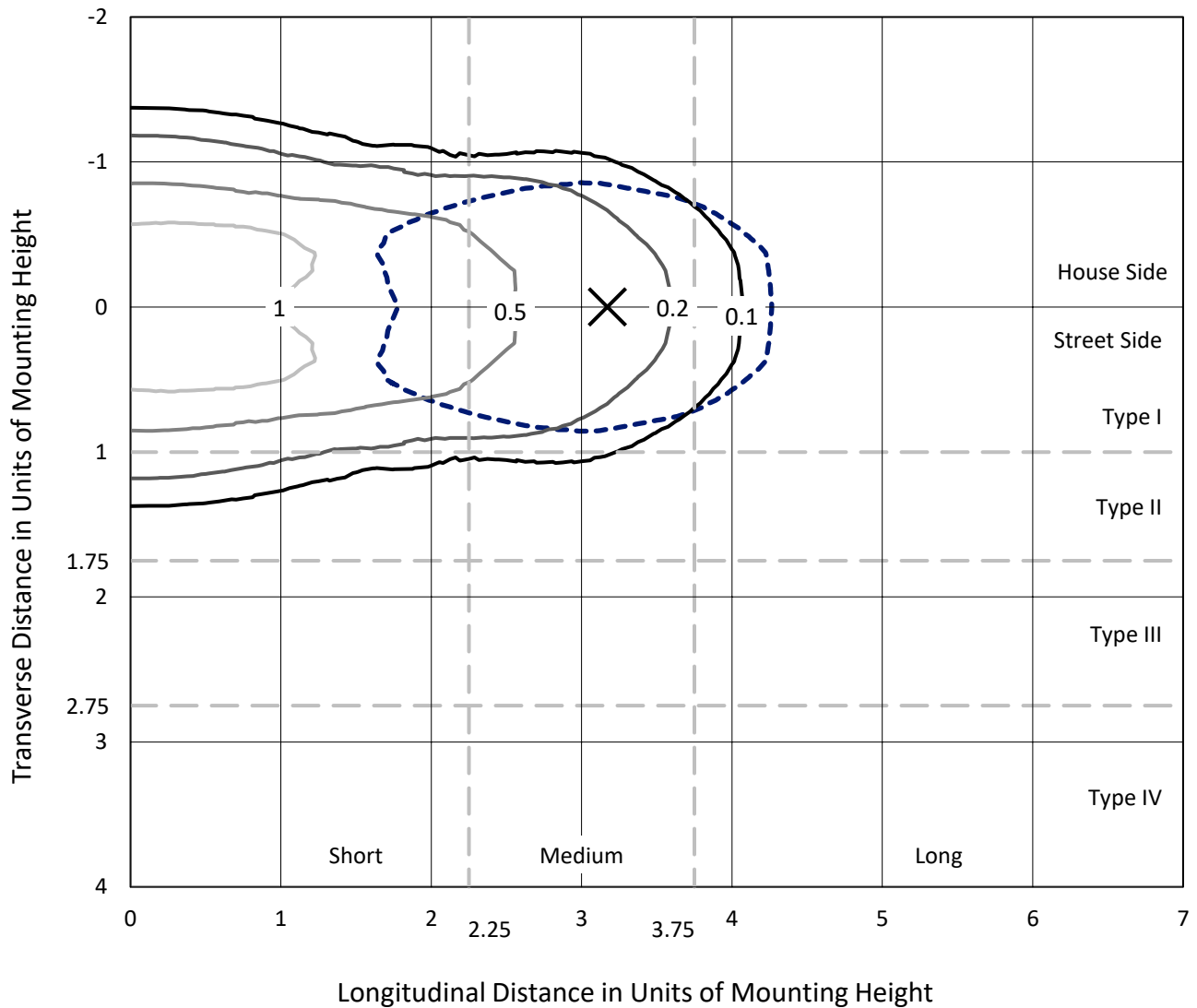
Input Watts (W): 54.4
Input Voltage (V): 120.0
Input Current (Ain): 0.437
Voltage Rise (V): NR
Power Factor: 0.993
Total Harmonic Distortion (THDi): 9.314
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

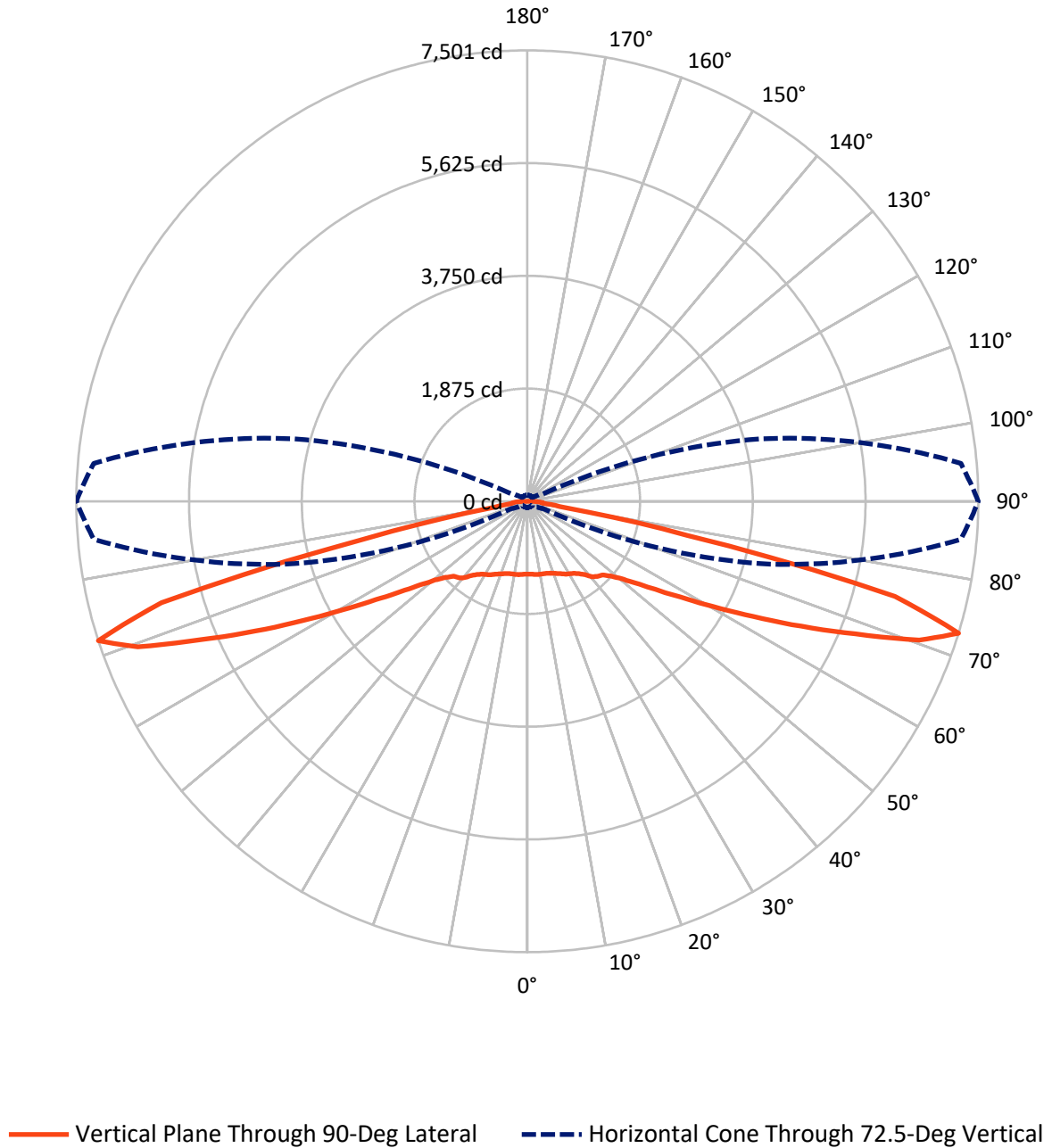
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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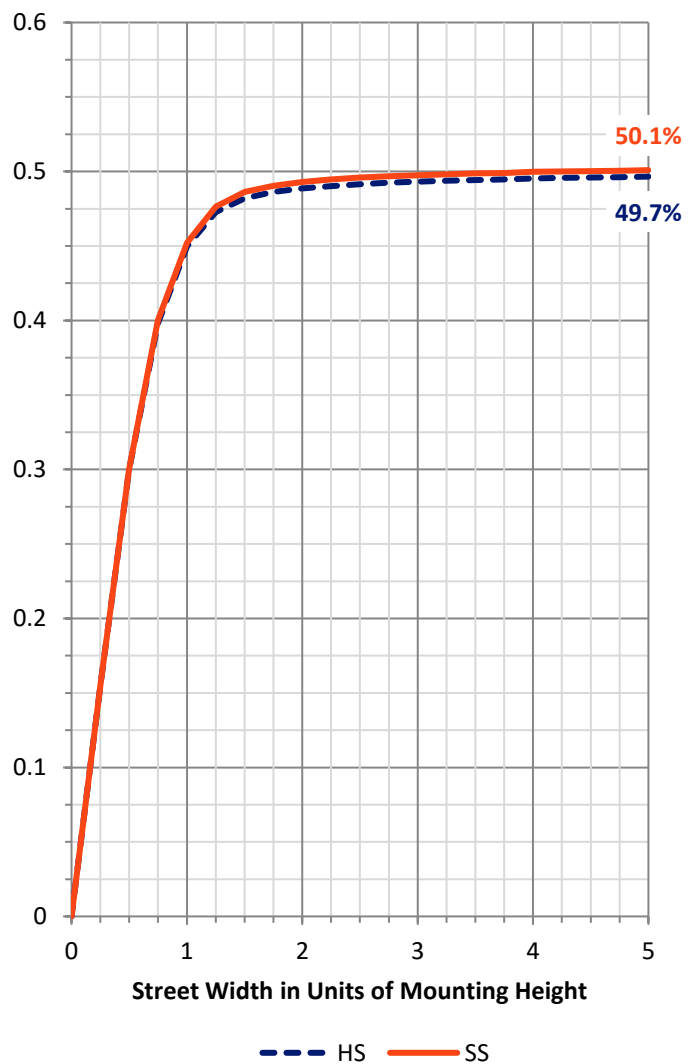
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3244.0	0.0	3244.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3244.0	0.0	3244.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6488.0	0.0	6488.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.6	1.8
10°-20°	359.4	5.5
20°-30°	599.3	9.2
30°-40°	824.2	12.7
40°-50°	1006.6	15.5
50°-60°	1164.3	17.9
60°-70°	1388.2	21.4
70°-80°	968.9	14.9
80°-90°	59.5	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°	6488.0	100.0
0°-180°	6488.0	100.0

Coefficient of Utilization



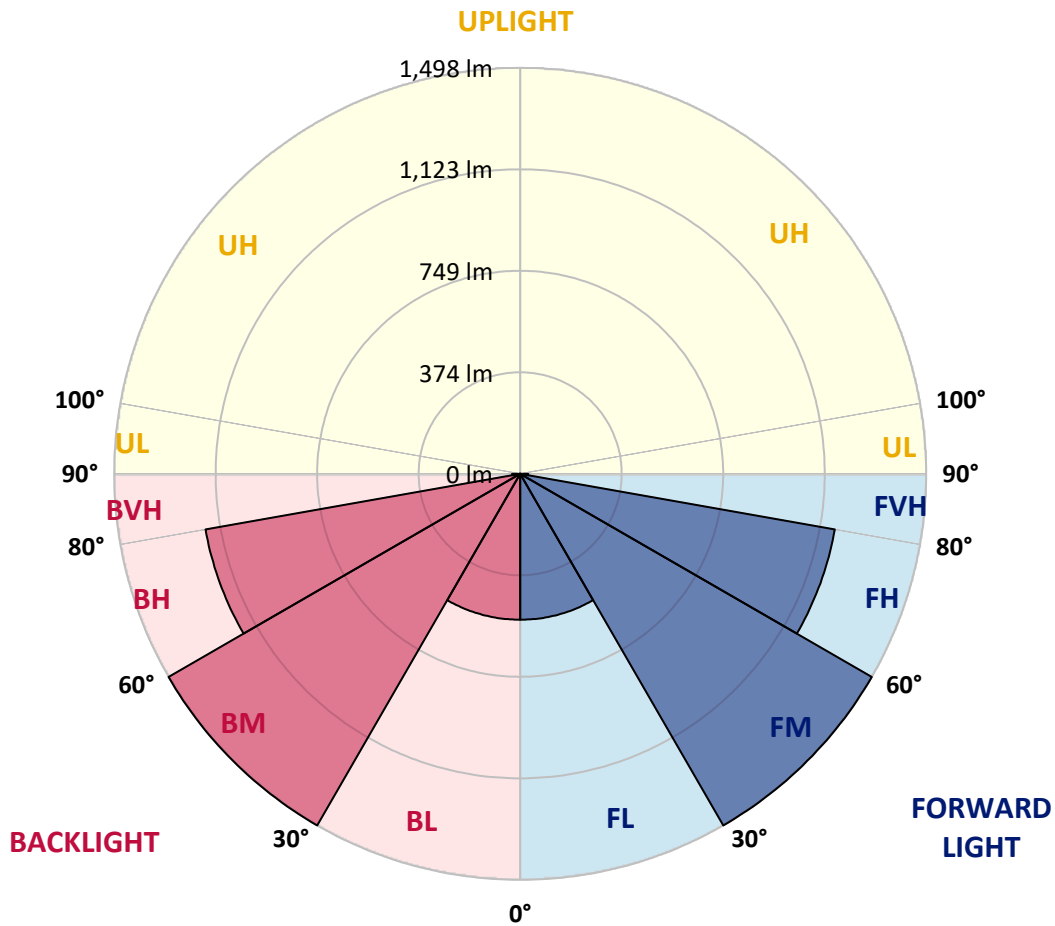
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	538.1	8.3			
FM (30°-60°)	1497.6	23.1			
FH (60°-80°)	1178.5	18.2			G1/1800
FVH (80°-90°)	29.7	0.5			G1/100
BL (0°-30°)	538.1	8.3	B2/1000		
BM (30°-60°)	1497.6	23.1	B2/2500		
BH (60°-80°)	1178.5	18.2	B3/2500		G3/2500
BVH (80°-90°)	29.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1212.4	1212.4	1212.4	1212.4	1212.4	1212.4	1212.4	1212.4	1212.4	1212.4	1212.4
2.5°	1213.4	1214.8	1214.8	1213.7	1216.1	1214.1	1214.1	1213.0	1214.1	1213.0	1213.0
5°	1219.6	1221.3	1222.0	1221.7	1224.8	1223.0	1223.0	1221.7	1222.0	1221.0	1221.0
7.5°	1231.3	1233.7	1235.1	1236.8	1241.3	1239.2	1237.9	1233.7	1232.0	1229.2	1229.2
10°	1235.1	1237.9	1242.3	1251.3	1261.7	1262.0	1257.9	1247.5	1239.6	1233.4	1232.4
12.5°	1223.4	1227.2	1236.5	1254.8	1277.9	1287.2	1280.6	1263.4	1247.9	1236.8	1235.1
15°	1208.6	1212.7	1226.8	1254.4	1288.6	1310.3	1309.6	1286.8	1262.0	1244.8	1242.0
17.5°	1185.5	1189.6	1209.9	1248.6	1296.8	1332.7	1342.3	1318.9	1284.1	1261.0	1257.2
20°	1143.7	1147.5	1175.8	1229.9	1299.6	1356.5	1381.7	1361.0	1317.5	1286.1	1280.3
22.5°	1089.6	1095.5	1128.6	1197.9	1293.0	1381.3	1426.5	1412.3	1356.5	1313.0	1305.1
25°	1031.7	1037.9	1076.5	1158.6	1276.1	1399.2	1479.6	1470.6	1400.6	1346.5	1335.4
27.5°	981.7	988.2	1030.3	1119.6	1249.9	1406.1	1532.0	1536.5	1454.1	1383.4	1371.7
30°	942.4	948.6	993.4	1088.2	1216.1	1399.2	1577.8	1608.9	1508.5	1415.4	1398.5
32.5°	899.3	907.2	954.4	1049.9	1176.1	1382.7	1617.8	1687.2	1571.6	1449.9	1428.5
35°	844.8	852.0	901.7	997.5	1123.7	1356.1	1651.3	1774.0	1662.0	1502.3	1478.5
37.5°	778.6	785.5	834.8	932.0	1071.7	1318.9	1676.8	1872.0	1769.6	1577.8	1546.1
40°	712.0	718.6	764.8	858.9	1009.3	1271.3	1685.8	1967.8	1893.0	1681.6	1647.8
42.5°	651.0	656.9	699.3	786.9	939.3	1210.6	1674.1	2051.3	2003.7	1754.0	1710.6
45°	594.8	600.0	637.6	719.3	866.5	1136.8	1638.9	2140.9	2135.4	1805.8	1747.2
47.5°	530.7	535.8	574.8	653.8	793.8	1050.3	1579.2	2229.2	2318.5	1923.0	1855.4
50°	452.4	456.9	496.9	578.2	718.2	958.2	1496.5	2298.5	2549.5	2100.6	2015.8
52.5°	359.6	364.5	403.4	484.8	628.6	859.3	1387.5	2343.7	2816.4	2359.9	2255.4
55°	267.6	271.0	304.8	377.9	517.6	746.5	1251.0	2356.4	3119.1	2714.3	2583.7
57.5°	194.1	196.2	217.9	272.4	392.4	605.5	1085.1	2323.3	3479.5	3168.8	3004.3
60°	157.2	157.9	164.5	188.6	272.7	446.2	884.8	2209.5	3870.5	3754.6	3547.4
62.5°	142.8	142.8	144.5	151.0	184.5	294.5	642.4	1973.7	4289.8	4494.9	4217.4
65°	132.8	132.8	133.4	136.5	145.5	187.6	405.5	1589.6	4643.2	5362.1	5011.1
67.5°	123.8	124.1	123.8	124.8	130.0	138.6	235.2	1097.9	4833.5	6260.7	5881.8
70°	114.5	115.2	113.4	113.4	117.6	117.9	147.2	602.0	4675.6	7013.8	6914.1
72.5°	103.4	104.5	101.7	101.0	104.1	102.8	110.7	289.0	4014.3	7238.6	7500.6
75°	93.8	95.2	89.0	87.2	87.2	86.2	90.0	148.3	2605.4	5904.9	6315.9
77.5°	85.2	87.9	77.9	72.4	71.0	67.9	73.4	90.7	1139.6	2772.3	2714.7
80°	70.3	74.1	64.1	57.6	55.2	51.7	57.9	63.4	338.9	643.8	616.5
82.5°	52.4	54.1	45.5	41.0	39.0	36.5	43.4	44.1	110.3	227.9	257.6
85°	33.4	34.1	27.9	24.1	23.1	22.1	27.6	24.1	42.1	167.6	243.4
87.5°	11.7	13.4	10.7	9.7	10.3	8.6	12.8	7.2	11.7	118.3	146.5
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)