

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: P881865

Luminaire Tested: **NAV-SB1C-722-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881865
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-722-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5909 lumens
Efficiency: N/A
Efficacy: 108.6 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

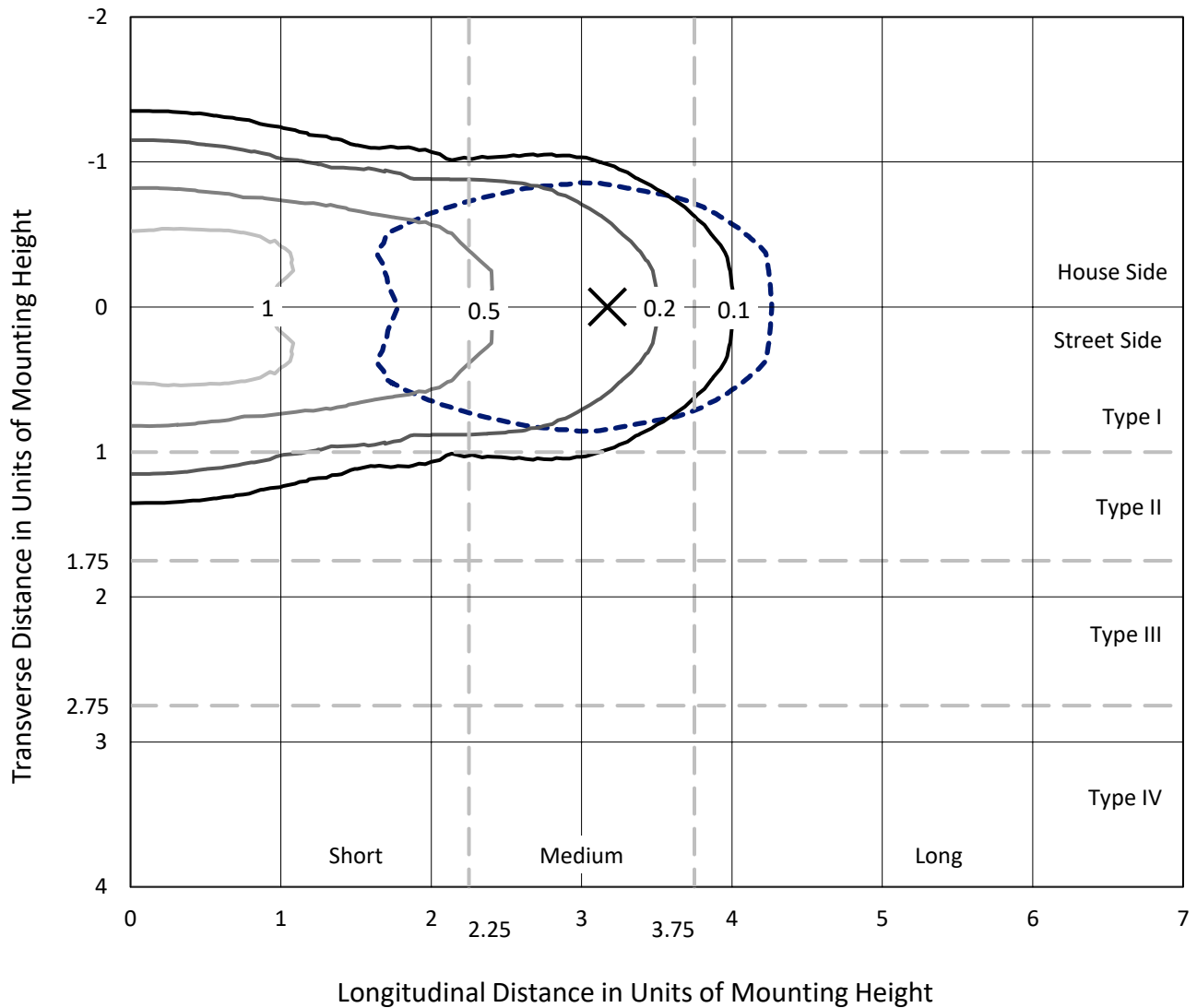
Input Watts (W): 54.4
Input Voltage (V): 120.0
Input Current (Ain): 0.437
Voltage Rise (V): NR
Power Factor: 0.993
Total Harmonic Distortion (THDi): 9.314
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

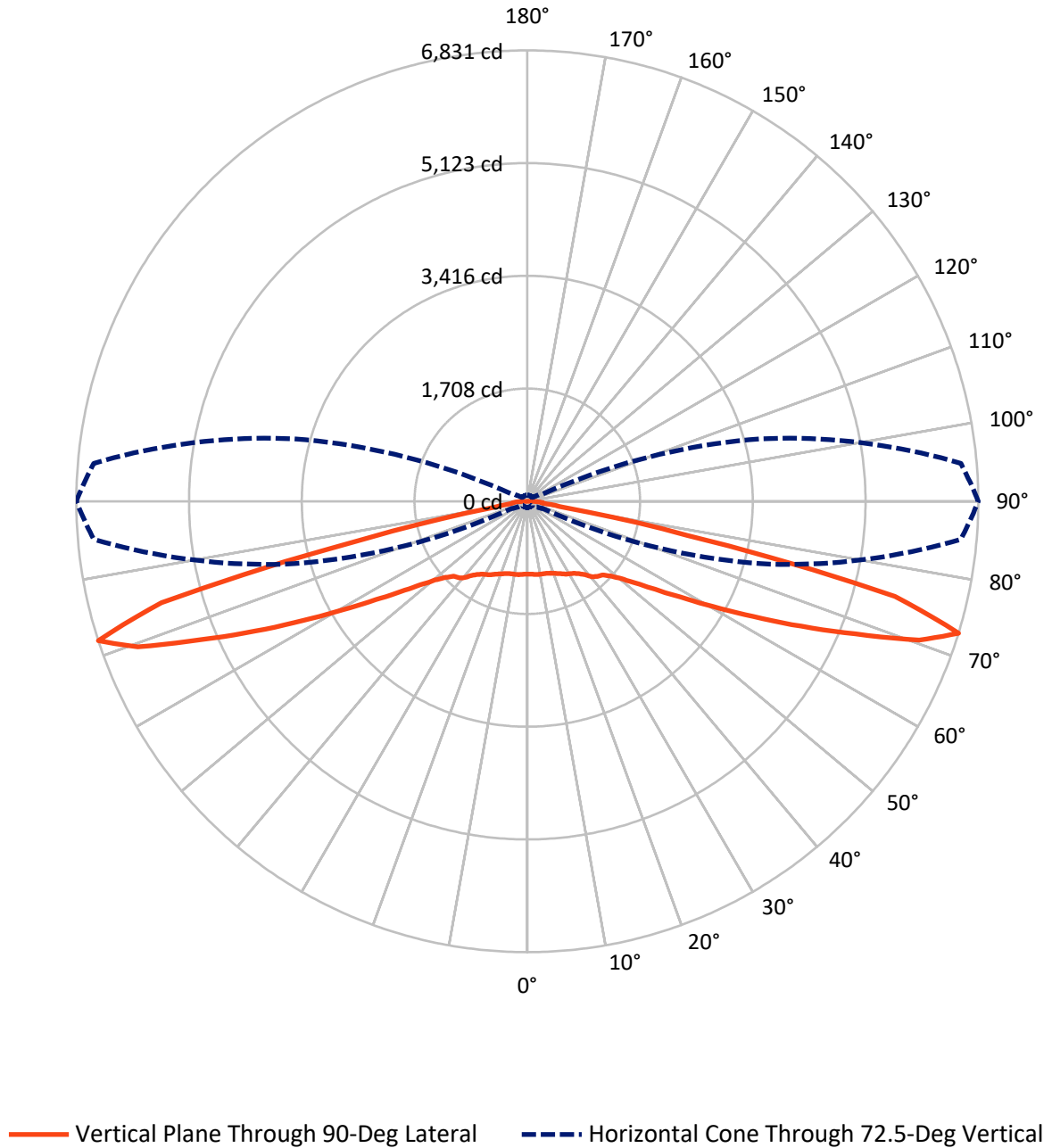
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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	2954.5	0.0	2954.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2954.5	0.0	2954.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5909.0	0.0	5909.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.1	1.8
10°-20°	327.4	5.5
20°-30°	545.8	9.2
30°-40°	750.7	12.7
40°-50°	916.8	15.5
50°-60°	1060.4	17.9
60°-70°	1264.3	21.4
70°-80°	882.4	14.9
80°-90°	54.2	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°	5909.0	100.0
0°-180°	5909.0	100.0

Coefficient of Utilization



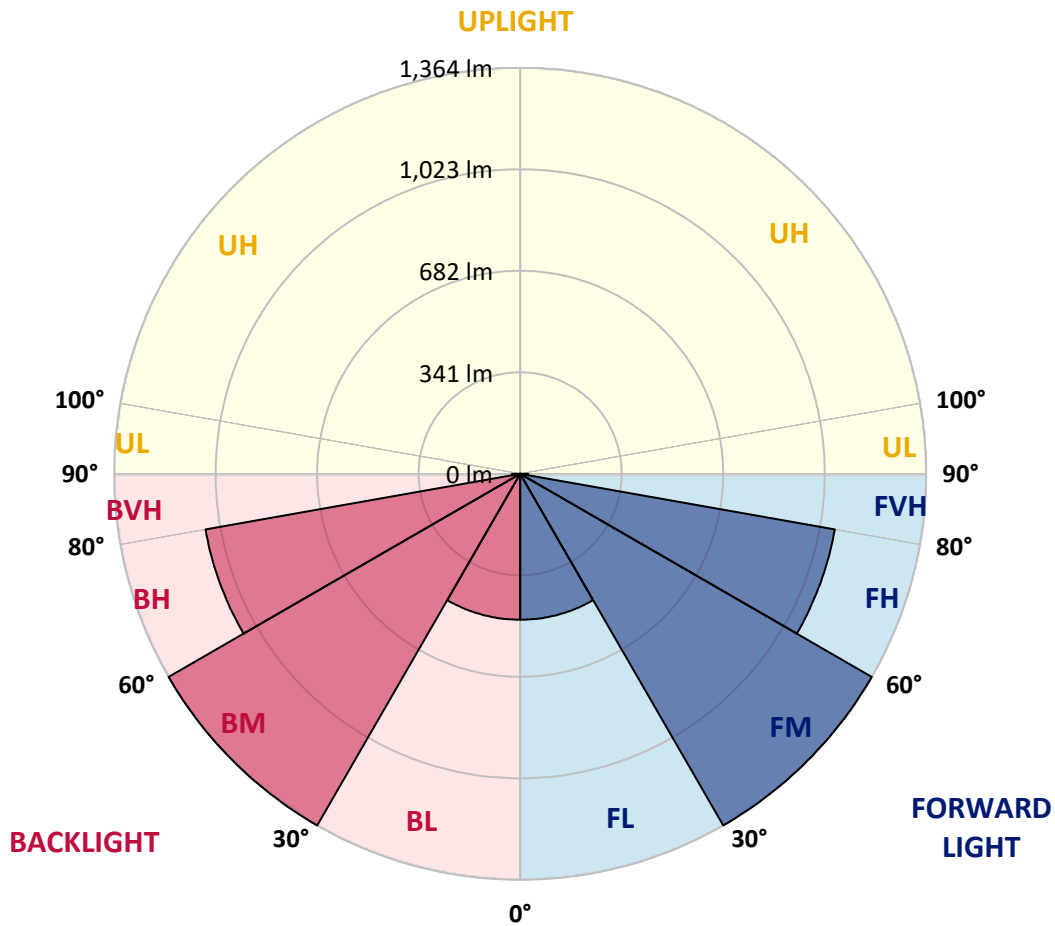
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	490.1	8.3			
FM (30°-60°)	1363.9	23.1			
FH (60°-80°)	1073.4	18.2			G1/1800
FVH (80°-90°)	27.1	0.5			G1/100
BL (0°-30°)	490.1	8.3	B1/500		
BM (30°-60°)	1363.9	23.1	B2/2500		
BH (60°-80°)	1073.4	18.2	B3/2500		G3/2500
BVH (80°-90°)	27.1	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°	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2
2.5°	1105.1	1106.4	1106.4	1105.4	1107.6	1105.7	1105.7	1104.8	1105.7	1104.8	1104.8
5°	1110.8	1112.3	1113.0	1112.6	1115.5	1113.9	1113.9	1112.6	1113.0	1112.0	1112.0
7.5°	1121.4	1123.6	1124.9	1126.5	1130.5	1128.7	1127.4	1123.6	1122.1	1119.5	1119.5
10°	1124.9	1127.4	1131.5	1139.6	1149.1	1149.4	1145.6	1136.2	1129.0	1123.3	1122.4
12.5°	1114.2	1117.7	1126.1	1142.8	1163.8	1172.3	1166.3	1150.6	1136.5	1126.5	1124.9
15°	1100.7	1104.5	1117.3	1142.5	1173.6	1193.3	1192.7	1172.0	1149.4	1133.7	1131.2
17.5°	1079.7	1083.4	1102.0	1137.1	1181.1	1213.8	1222.6	1201.2	1169.5	1148.4	1145.0
20°	1041.7	1045.1	1070.9	1120.2	1183.6	1235.4	1258.4	1239.5	1199.9	1171.4	1166.0
22.5°	992.4	997.7	1027.8	1091.0	1177.6	1258.0	1299.2	1286.3	1235.4	1195.9	1188.6
25°	939.6	945.3	980.4	1055.2	1162.3	1274.4	1347.5	1339.4	1275.6	1226.3	1216.3
27.5°	894.1	900.0	938.3	1019.7	1138.4	1280.6	1395.3	1399.4	1324.3	1259.9	1249.2
30°	858.3	863.9	904.7	991.1	1107.6	1274.4	1437.0	1465.3	1373.9	1289.1	1273.7
32.5°	819.0	826.2	869.3	956.2	1071.2	1259.3	1473.5	1536.6	1431.4	1320.5	1301.1
35°	769.4	776.0	821.2	908.5	1023.5	1235.1	1503.9	1615.7	1513.7	1368.3	1346.6
37.5°	709.1	715.4	760.3	848.8	976.0	1201.2	1527.2	1704.9	1611.6	1437.0	1408.1
40°	648.5	654.5	696.5	782.3	919.2	1157.9	1535.3	1792.2	1724.1	1531.6	1500.8
42.5°	592.9	598.2	636.9	716.6	855.4	1102.6	1524.7	1868.2	1824.9	1597.5	1557.9
45°	541.7	546.4	580.7	655.1	789.2	1035.4	1492.6	1949.9	1944.8	1644.6	1591.2
47.5°	483.3	488.0	523.5	595.4	722.9	956.6	1438.3	2030.3	2111.6	1751.4	1689.8
50°	412.0	416.1	452.5	526.6	654.1	872.7	1362.9	2093.4	2322.0	1913.1	1835.9
52.5°	327.5	331.9	367.4	441.5	572.5	782.6	1263.7	2134.5	2565.1	2149.3	2054.1
55°	243.7	246.8	277.6	344.2	471.4	679.9	1139.3	2146.1	2840.8	2472.1	2353.1
57.5°	176.8	178.7	198.5	248.1	357.4	551.5	988.3	2116.0	3169.0	2886.0	2736.2
60°	143.2	143.8	149.8	171.8	248.4	406.4	805.8	2012.4	3525.1	3419.6	3230.8
62.5°	130.0	130.0	131.6	137.5	168.0	268.2	585.1	1797.6	3907.0	4093.8	3841.0
65°	120.9	120.9	121.5	124.4	132.5	170.8	369.3	1447.7	4228.8	4883.6	4563.9
67.5°	112.7	113.1	112.7	113.7	118.4	126.2	214.2	999.9	4402.2	5702.0	5356.9
70°	104.3	104.9	103.3	103.3	107.1	107.4	134.1	548.3	4258.4	6387.9	6297.1
72.5°	94.2	95.2	92.6	92.0	94.8	93.6	100.8	263.2	3656.0	6592.6	6831.3
75°	85.4	86.7	81.0	79.5	79.5	78.5	82.0	135.0	2372.9	5377.9	5752.2
77.5°	77.6	80.1	71.0	65.9	64.7	61.9	66.9	82.6	1037.9	2524.9	2472.4
80°	64.1	67.5	58.4	52.4	50.2	47.1	52.8	57.8	308.7	586.3	561.5
82.5°	47.7	49.3	41.5	37.4	35.5	33.3	39.6	40.2	100.5	207.6	234.6
85°	30.5	31.1	25.4	22.0	21.0	20.1	25.1	22.0	38.3	152.6	221.7
87.5°	10.7	12.2	9.7	8.8	9.4	7.9	11.6	6.6	10.7	107.7	133.5
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)