

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: P881895

Luminaire Tested: **NAV-SB1C-735-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881895
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-735-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7415 lumens
Efficiency: N/A
Efficacy: 136.3 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

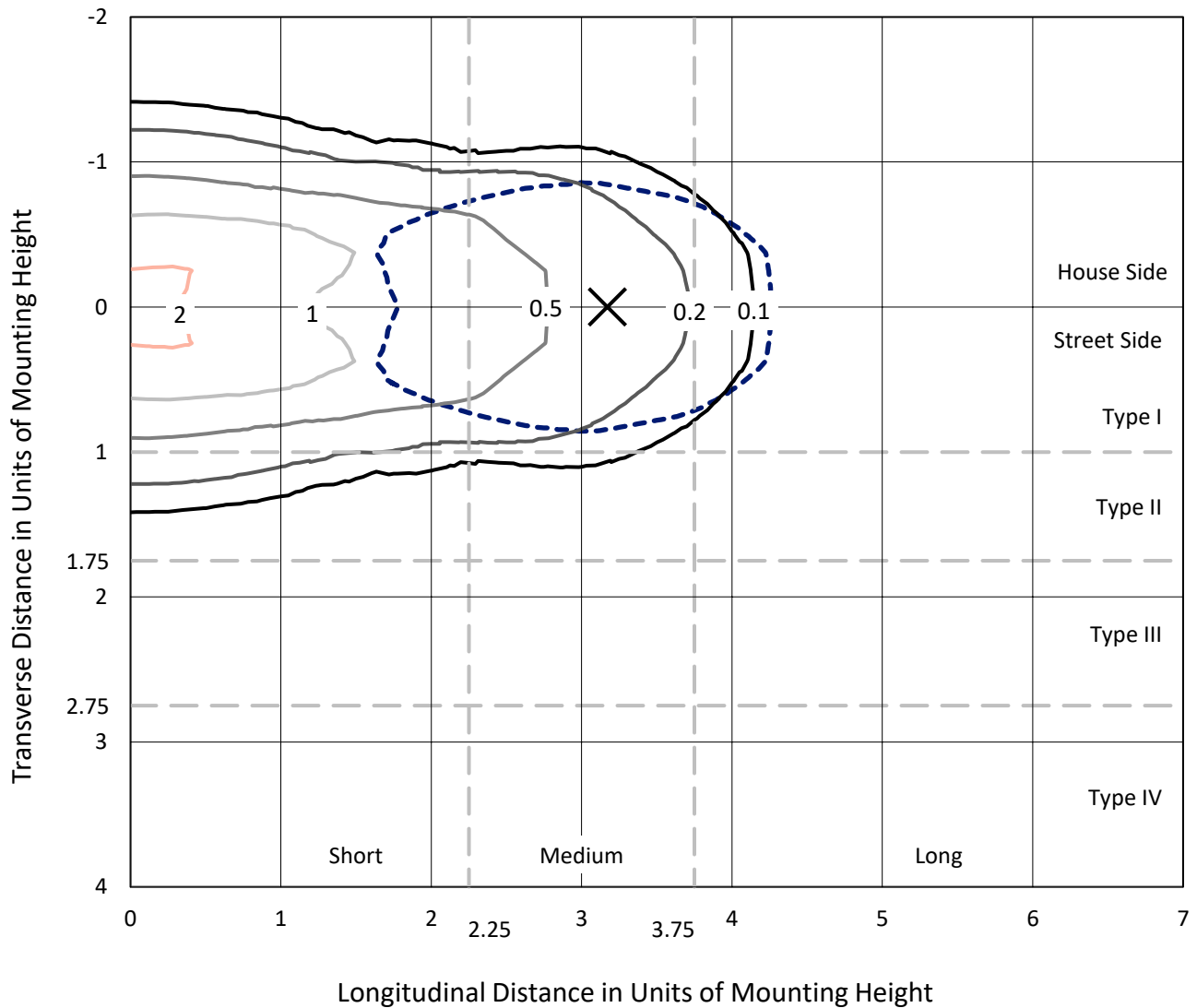
Input Watts (W): 54.4
Input Voltage (V): 120.0
Input Current (Ain): 0.437
Voltage Rise (V): NR
Power Factor: 0.993
Total Harmonic Distortion (THDi): 9.314
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

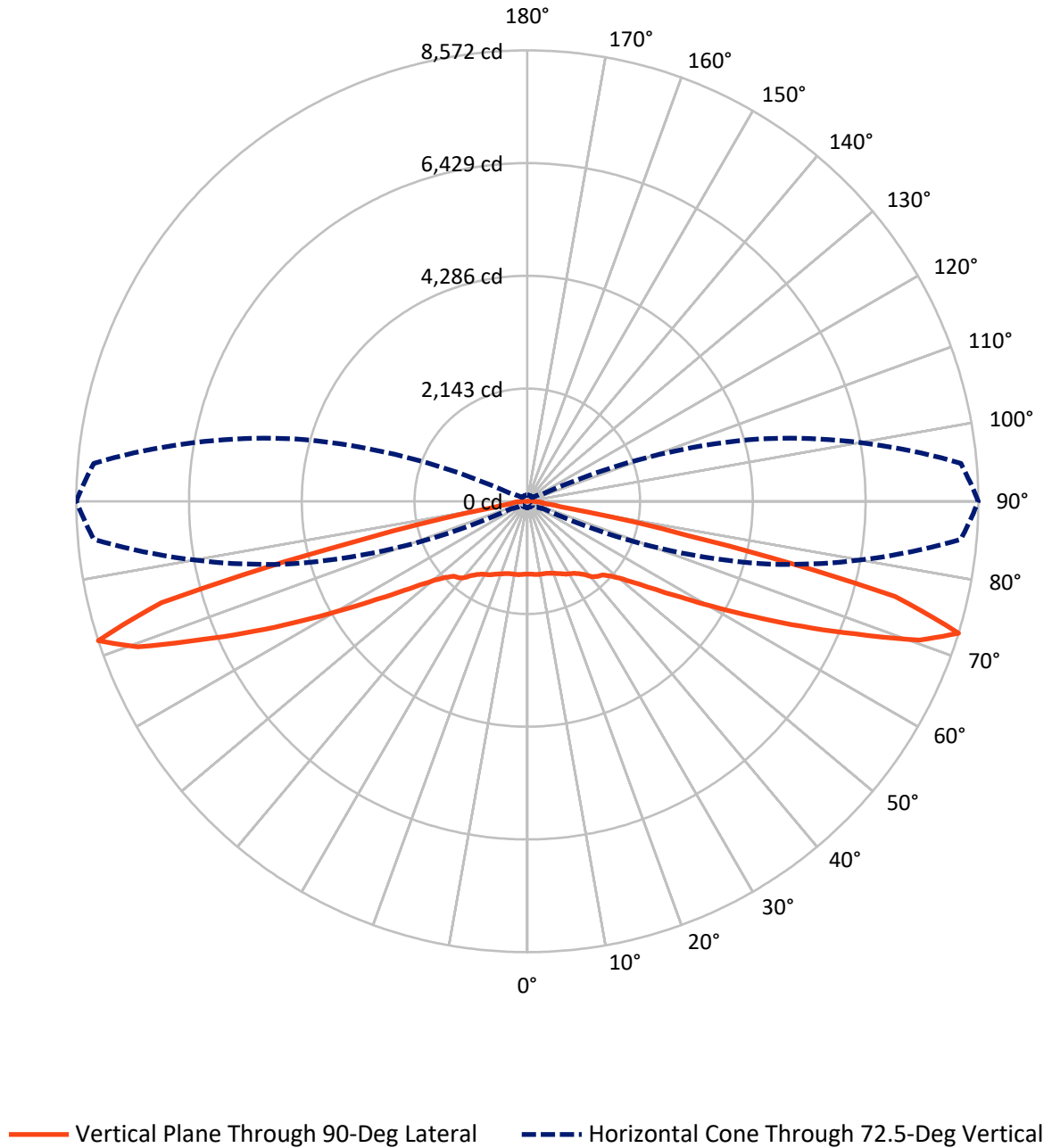
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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	3707.5	0.0	3707.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3707.5	0.0	3707.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	7415.0	0.0	7415.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.3	1.8
10°-20°	410.8	5.5
20°-30°	684.9	9.2
30°-40°	942.0	12.7
40°-50°	1150.5	15.5
50°-60°	1330.6	17.9
60°-70°	1586.5	21.4
70°-80°	1107.3	14.9
80°-90°	68.0	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°	7415.0	100.0
0°-180°	7415.0	100.0

Coefficient of Utilization



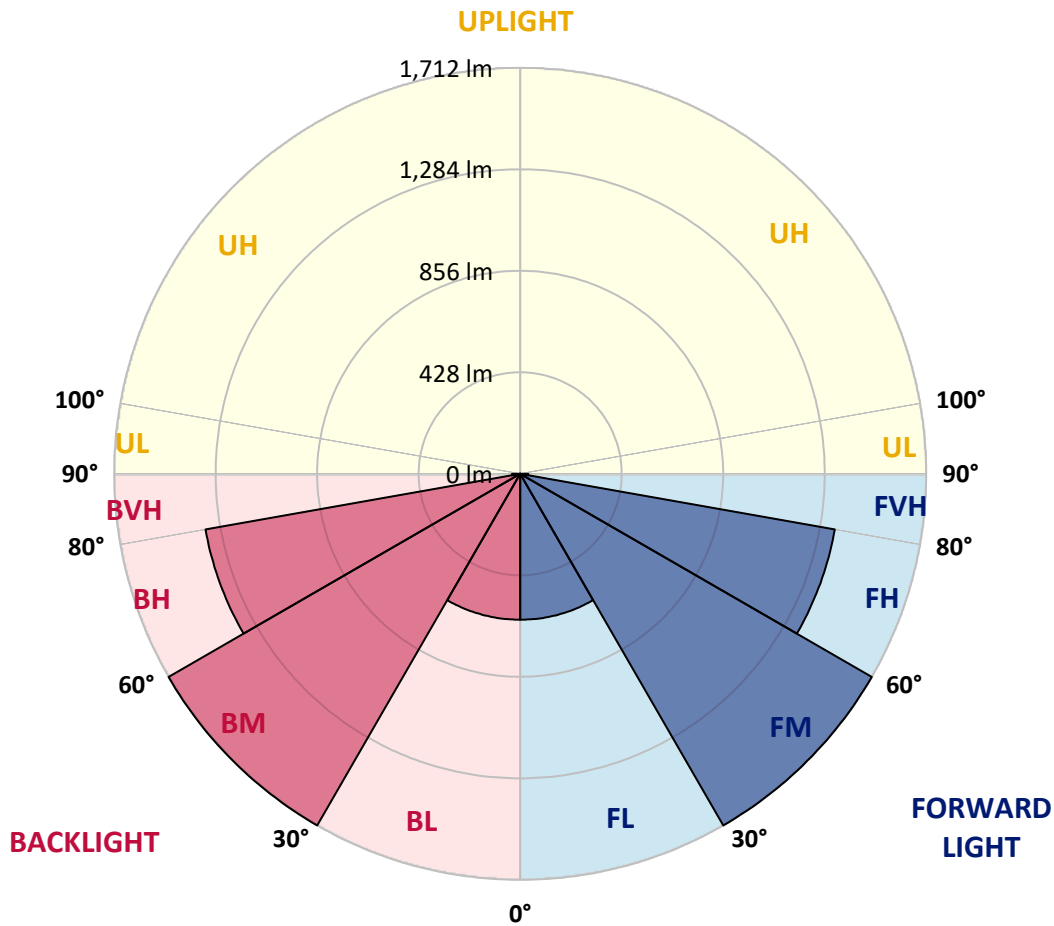
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	615.0	8.3			
FM (30°-60°)	1711.5	23.1			
FH (60°-80°)	1346.9	18.2			G1/1800
FVH (80°-90°)	34.0	0.5			G1/100
BL (0°-30°)	615.0	8.3	B2/1000		
BM (30°-60°)	1711.5	23.1	B2/2500		
BH (60°-80°)	1346.9	18.2	B3/2500		G3/2500
BVH (80°-90°)	34.0	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°	1385.6	1385.6	1385.6	1385.6	1385.6	1385.6	1385.6	1385.6	1385.6	1385.6	1385.6
2.5°	1386.8	1388.3	1388.3	1387.1	1389.9	1387.5	1387.5	1386.4	1387.5	1386.4	1386.4
5°	1393.8	1395.8	1396.6	1396.2	1399.8	1397.8	1397.8	1396.2	1396.6	1395.4	1395.4
7.5°	1407.2	1410.0	1411.6	1413.6	1418.7	1416.3	1414.7	1410.0	1408.0	1404.9	1404.9
10°	1411.6	1414.7	1419.9	1430.1	1441.9	1442.3	1437.6	1425.8	1416.7	1409.6	1408.4
12.5°	1398.2	1402.5	1413.2	1434.0	1460.4	1471.1	1463.6	1443.9	1426.2	1413.6	1411.6
15°	1381.2	1386.0	1402.1	1433.6	1472.7	1497.5	1496.7	1470.7	1442.3	1422.6	1419.5
17.5°	1354.8	1359.6	1382.8	1426.9	1482.1	1523.1	1534.1	1507.3	1467.5	1441.1	1436.8
20°	1307.1	1311.5	1343.8	1405.7	1485.3	1550.3	1579.1	1555.4	1505.8	1469.9	1463.2
22.5°	1245.3	1252.0	1289.8	1369.0	1477.8	1578.7	1630.3	1614.1	1550.3	1500.6	1491.6
25°	1179.1	1186.2	1230.3	1324.1	1458.5	1599.2	1691.0	1680.7	1600.7	1538.9	1526.3
27.5°	1121.9	1129.4	1177.5	1279.6	1428.5	1607.0	1750.9	1756.0	1661.8	1581.0	1567.6
30°	1077.0	1084.1	1135.3	1243.7	1389.9	1599.2	1803.3	1838.8	1724.1	1617.7	1598.4
32.5°	1027.8	1036.8	1090.8	1200.0	1344.2	1580.2	1849.0	1928.2	1796.2	1657.1	1632.7
35°	965.5	973.8	1030.5	1140.1	1284.3	1549.9	1887.2	2027.5	1899.4	1717.0	1689.8
37.5°	889.8	897.7	954.1	1065.2	1224.8	1507.3	1916.4	2139.4	2022.4	1803.3	1767.0
40°	813.8	821.3	874.1	981.6	1153.5	1453.0	1926.6	2249.0	2163.5	1921.9	1883.3
42.5°	744.0	750.7	799.2	899.3	1073.5	1383.6	1913.2	2344.4	2290.0	2004.7	1955.0
45°	679.8	685.7	728.6	822.0	990.3	1299.3	1873.0	2446.8	2440.5	2063.8	1996.8
47.5°	606.5	612.4	656.9	747.2	907.2	1200.4	1804.9	2547.7	2649.8	2197.8	2120.5
50°	517.0	522.2	567.9	660.9	820.9	1095.1	1710.3	2626.9	2913.8	2400.7	2303.8
52.5°	411.0	416.5	461.1	554.1	718.4	982.0	1585.8	2678.5	3218.8	2697.1	2577.7
55°	305.8	309.7	348.4	431.9	591.5	853.2	1429.7	2693.1	3564.8	3102.2	2952.8
57.5°	221.9	224.2	249.1	311.3	448.5	692.0	1240.2	2655.3	3976.6	3621.6	3433.6
60°	179.7	180.5	188.0	215.6	311.7	509.9	1011.2	2525.2	4423.5	4291.1	4054.3
62.5°	163.1	163.1	165.1	172.6	210.8	336.5	734.2	2255.7	4902.7	5137.2	4819.9
65°	151.7	151.7	152.5	156.1	166.3	214.4	463.4	1816.7	5306.6	6128.3	5727.1
67.5°	141.5	141.9	141.5	142.7	148.6	158.4	268.8	1254.7	5524.2	7155.2	6722.1
70°	130.8	131.6	129.7	129.7	134.4	134.8	168.3	688.1	5343.7	8015.9	7902.0
72.5°	118.2	119.4	116.3	115.5	119.0	117.4	126.5	330.2	4587.8	8272.8	8572.3
75°	107.2	108.8	101.7	99.7	99.7	98.5	102.9	169.5	2977.6	6748.6	7218.3
77.5°	97.3	100.5	89.1	82.8	81.2	77.6	83.9	103.6	1302.4	3168.4	3102.6
80°	80.4	84.7	73.3	65.8	63.1	59.1	66.2	72.5	387.4	735.7	704.6
82.5°	59.9	61.9	52.0	46.9	44.5	41.8	49.7	50.4	126.1	260.5	294.4
85°	38.2	39.0	31.9	27.6	26.4	25.2	31.5	27.6	48.1	191.5	278.2
87.5°	13.4	15.4	12.2	11.0	11.8	9.9	14.6	8.3	13.4	135.2	167.5
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)