

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: P882295

Luminaire Tested: **NAV-SB2A-835-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882295
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-SB2A-835-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7631 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

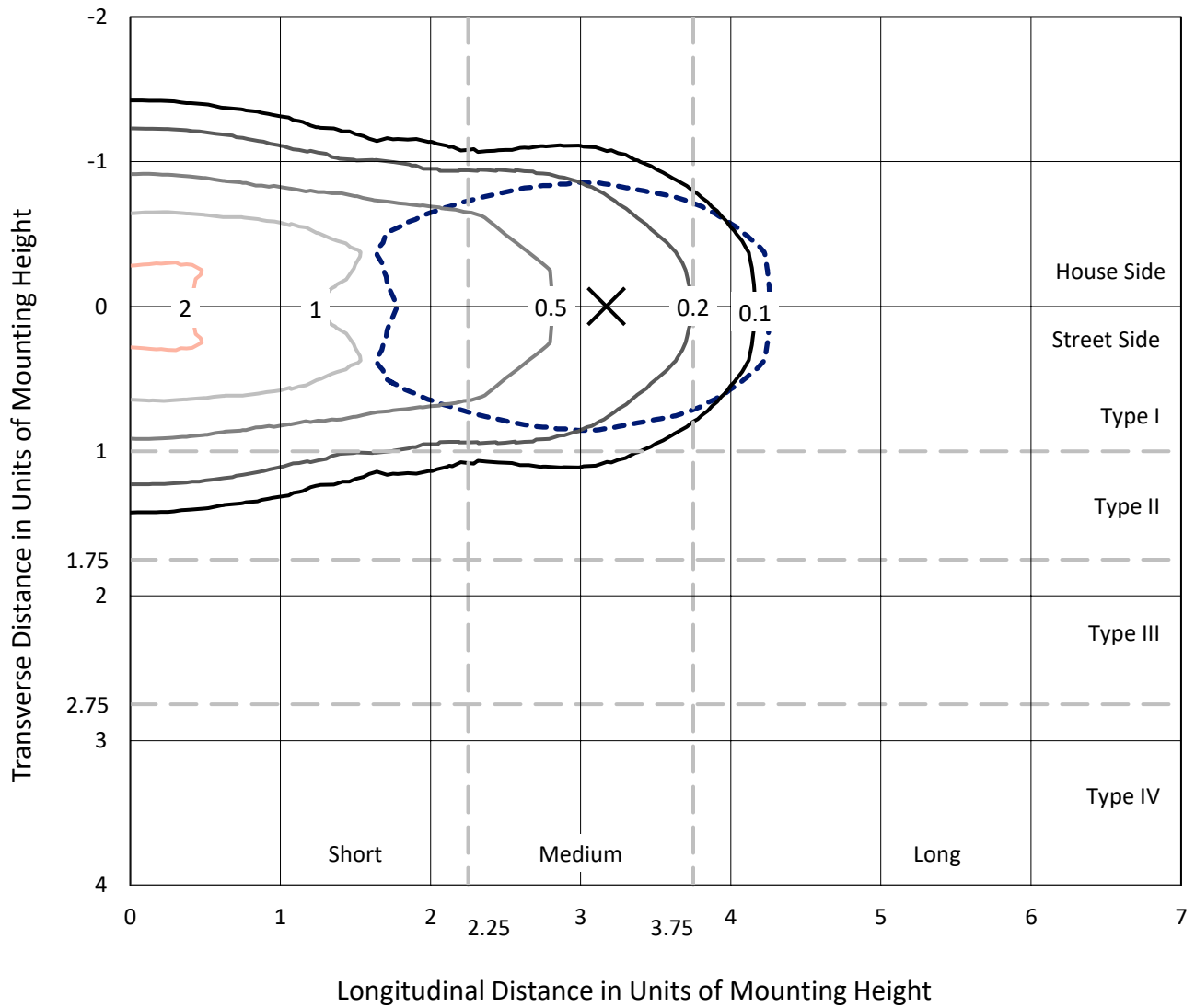
Input Watts (W): 57.3
Input Voltage (V): 120.0
Input Current (Ain): 0.484
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.038
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

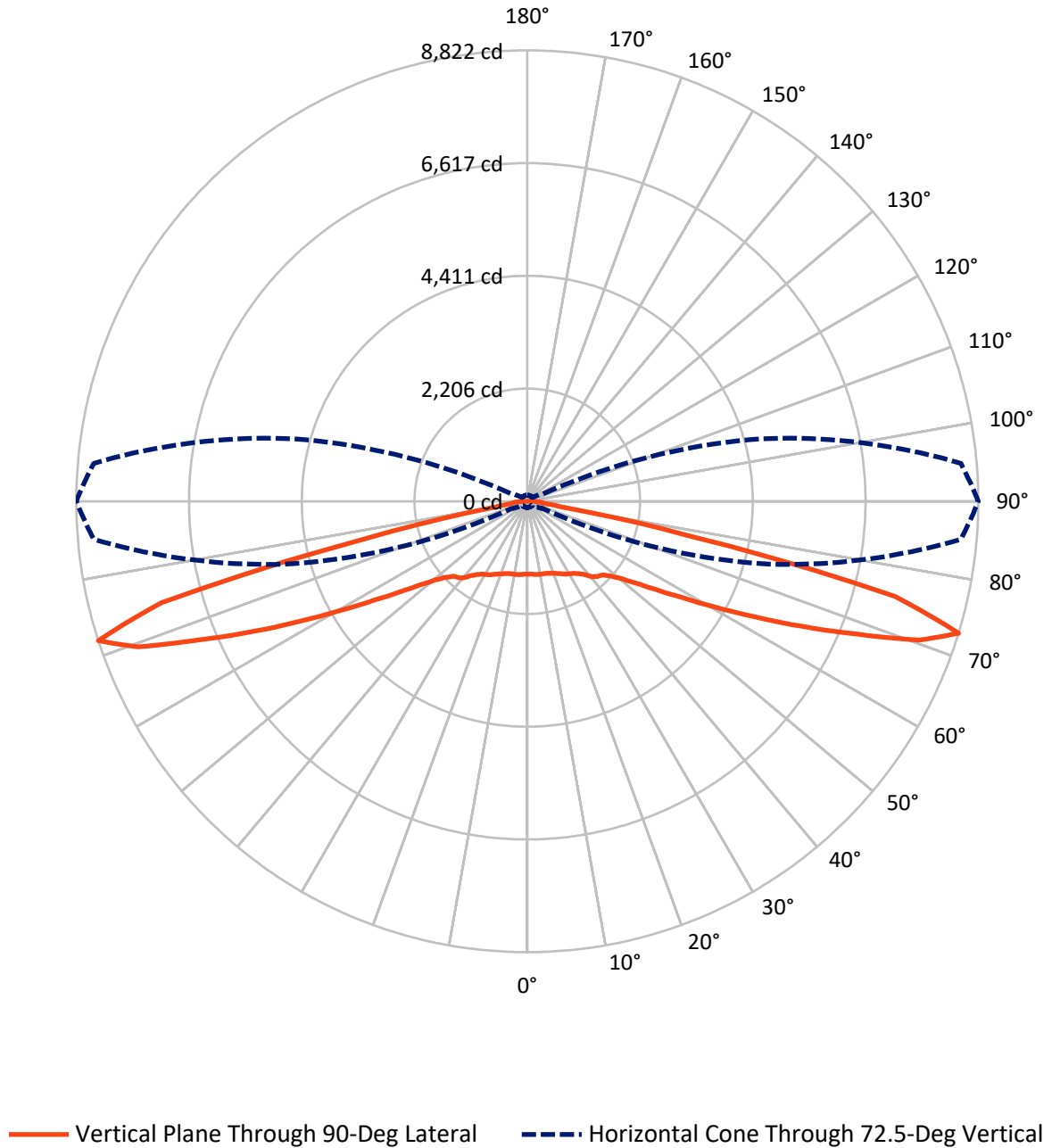
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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	3815.5	0.0	3815.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3815.5	0.0	3815.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	7631.0	0.0	7631.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	1.8
10°-20°	422.7	5.5
20°-30°	704.9	9.2
30°-40°	969.4	12.7
40°-50°	1184.0	15.5
50°-60°	1369.4	17.9
60°-70°	1632.7	21.4
70°-80°	1139.6	14.9
80°-90°	70.0	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°	7631.0	100.0
0°-180°	7631.0	100.0

Coefficient of Utilization



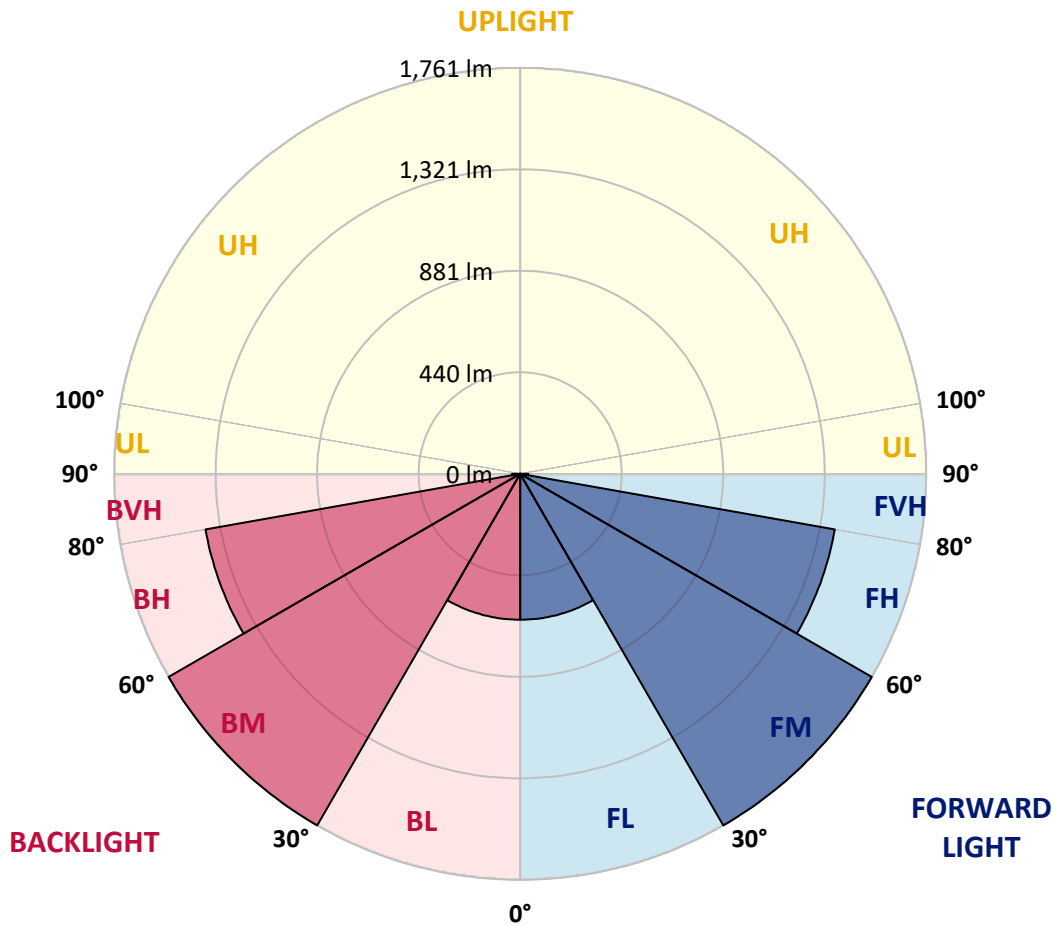
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	633.0	8.3			
FM (30°-60°)	1761.4	23.1			
FH (60°-80°)	1386.2	18.2			G1/1800
FVH (80°-90°)	35.0	0.5			G1/100
BL (0°-30°)	633.0	8.3	B2/1000		
BM (30°-60°)	1761.4	23.1	B2/2500		
BH (60°-80°)	1386.2	18.2	B3/2500		G3/2500
BVH (80°-90°)	35.0	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°	1425.9	1425.9	1425.9	1425.9	1425.9	1425.9	1425.9	1425.9	1425.9	1425.9	1425.9
2.5°	1427.1	1428.8	1428.8	1427.6	1430.4	1428.0	1428.0	1426.7	1428.0	1426.7	1426.7
5°	1434.4	1436.5	1437.3	1436.9	1440.5	1438.5	1438.5	1436.9	1437.3	1436.1	1436.1
7.5°	1448.2	1451.1	1452.7	1454.7	1460.0	1457.6	1455.9	1451.1	1449.0	1445.8	1445.8
10°	1452.7	1455.9	1461.2	1471.8	1483.9	1484.3	1479.5	1467.3	1458.0	1450.7	1449.5
12.5°	1438.9	1443.4	1454.3	1475.8	1503.0	1513.9	1506.2	1486.0	1467.7	1454.7	1452.7
15°	1421.5	1426.3	1443.0	1475.4	1515.6	1541.1	1540.3	1513.5	1484.3	1464.1	1460.8
17.5°	1394.3	1399.2	1423.1	1468.5	1525.3	1567.5	1578.8	1551.2	1510.3	1483.1	1478.7
20°	1345.2	1349.7	1382.9	1446.6	1528.5	1595.5	1625.1	1600.7	1549.6	1512.7	1505.8
22.5°	1281.6	1288.4	1327.4	1408.9	1520.8	1624.7	1677.8	1661.2	1595.5	1544.4	1535.0
25°	1213.4	1220.7	1266.1	1362.7	1501.0	1645.7	1740.2	1729.7	1647.4	1583.7	1570.7
27.5°	1154.6	1162.3	1211.8	1316.8	1470.1	1653.9	1801.9	1807.2	1710.2	1627.1	1613.3
30°	1108.4	1115.7	1168.4	1279.9	1430.4	1645.7	1855.8	1892.3	1774.3	1664.8	1644.9
32.5°	1057.7	1067.0	1122.6	1234.9	1383.3	1626.3	1902.9	1984.4	1848.5	1705.4	1680.2
35°	993.6	1002.1	1060.5	1173.3	1321.7	1595.0	1942.2	2086.6	1954.8	1767.0	1739.0
37.5°	915.7	923.9	981.8	1096.2	1260.5	1551.2	1972.2	2201.8	2081.3	1855.8	1818.5
40°	837.5	845.2	899.5	1010.2	1187.1	1495.3	1982.8	2314.5	2226.5	1977.9	1938.1
42.5°	765.7	772.6	822.5	925.5	1104.7	1423.9	1969.0	2412.6	2356.7	2063.1	2012.0
45°	699.6	705.7	749.9	846.0	1019.2	1337.1	1927.6	2518.1	2511.6	2123.9	2054.9
47.5°	624.1	630.2	676.1	768.9	933.6	1235.3	1857.4	2621.9	2727.0	2261.8	2182.3
50°	532.1	537.4	584.4	680.1	844.8	1127.0	1760.1	2703.4	2998.7	2470.6	2370.9
52.5°	423.0	428.7	474.5	570.2	739.3	1010.6	1632.0	2756.6	3312.6	2775.6	2652.7
55°	314.7	318.8	358.5	444.5	608.7	878.0	1471.4	2771.6	3668.7	3192.5	3038.8
57.5°	228.3	230.8	256.3	320.4	461.5	712.2	1276.3	2732.6	4092.5	3727.1	3533.6
60°	184.9	185.7	193.4	221.8	320.8	524.8	1040.7	2598.8	4552.4	4416.1	4172.4
62.5°	167.9	167.9	169.9	177.6	217.0	346.3	755.5	2321.4	5045.5	5286.8	4960.3
65°	156.1	156.1	156.9	160.6	171.1	220.6	476.9	1869.6	5461.2	6306.8	5893.9
67.5°	145.6	146.0	145.6	146.8	152.9	163.0	276.6	1291.3	5685.1	7363.7	6918.0
70°	134.6	135.5	133.4	133.4	138.3	138.7	173.2	708.1	5499.3	8249.4	8132.2
72.5°	121.7	122.9	119.6	118.8	122.5	120.9	130.2	339.9	4721.5	8513.8	8822.0
75°	110.3	111.9	104.6	102.6	102.6	101.4	105.8	174.4	3064.4	6945.1	7428.6
77.5°	100.2	103.4	91.7	85.2	83.5	79.9	86.4	106.7	1340.4	3260.7	3192.9
80°	82.7	87.2	75.4	67.7	64.9	60.8	68.1	74.6	398.7	757.2	725.1
82.5°	61.6	63.7	53.5	48.3	45.8	43.0	51.1	51.9	129.8	268.1	302.9
85°	39.3	40.1	32.8	28.4	27.2	26.0	32.4	28.4	49.5	197.1	286.3
87.5°	13.8	15.8	12.6	11.4	12.2	10.1	15.0	8.5	13.8	139.1	172.4
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)