

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: P883072

Luminaire Tested: **NAV-SB3B-730-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883072
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-730-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16818 lumens
Efficiency: N/A
Efficacy: 154.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

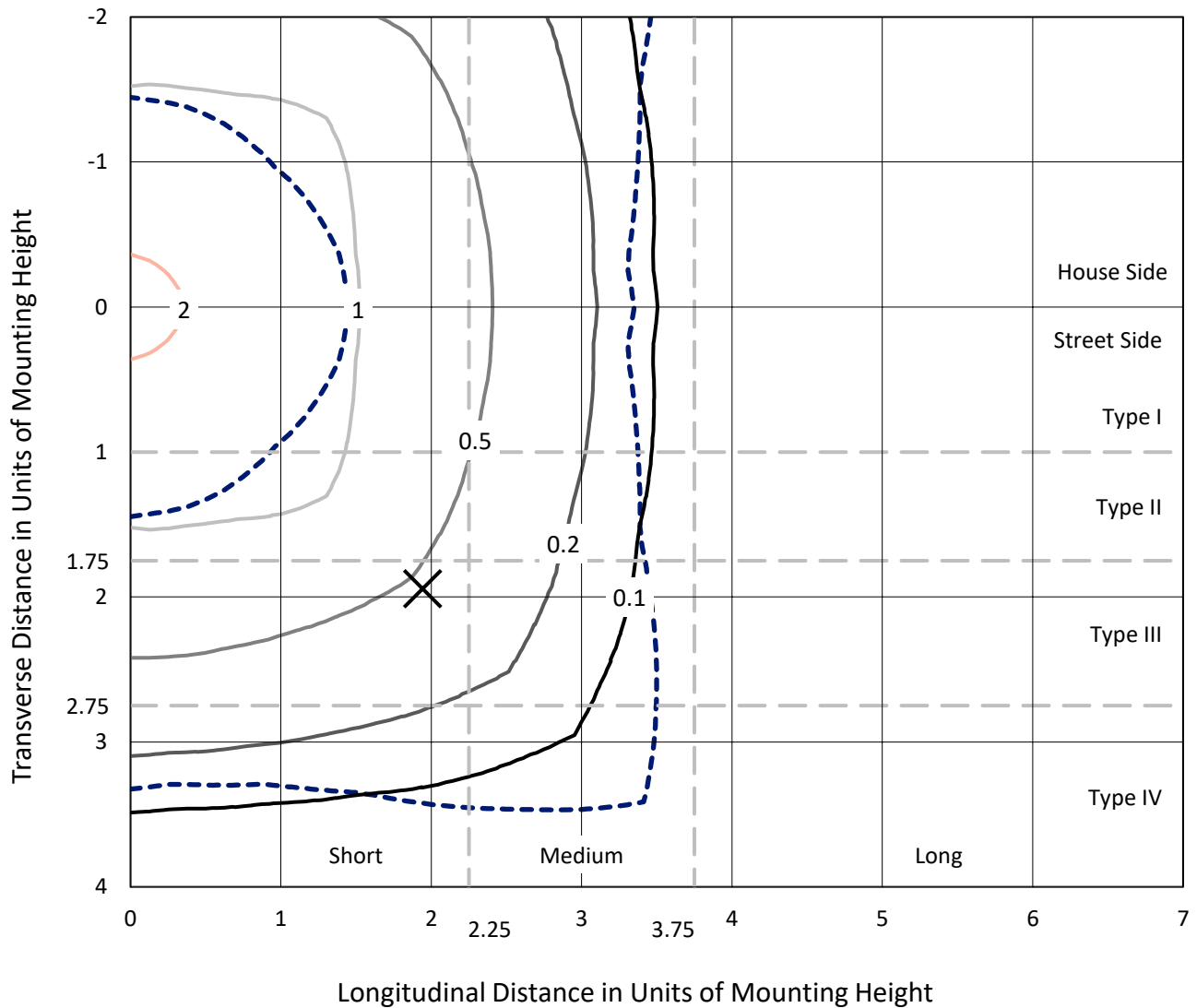
Input Watts (W): 109.2
Input Voltage (V): 120.0
Input Current (Ain): 0.919
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

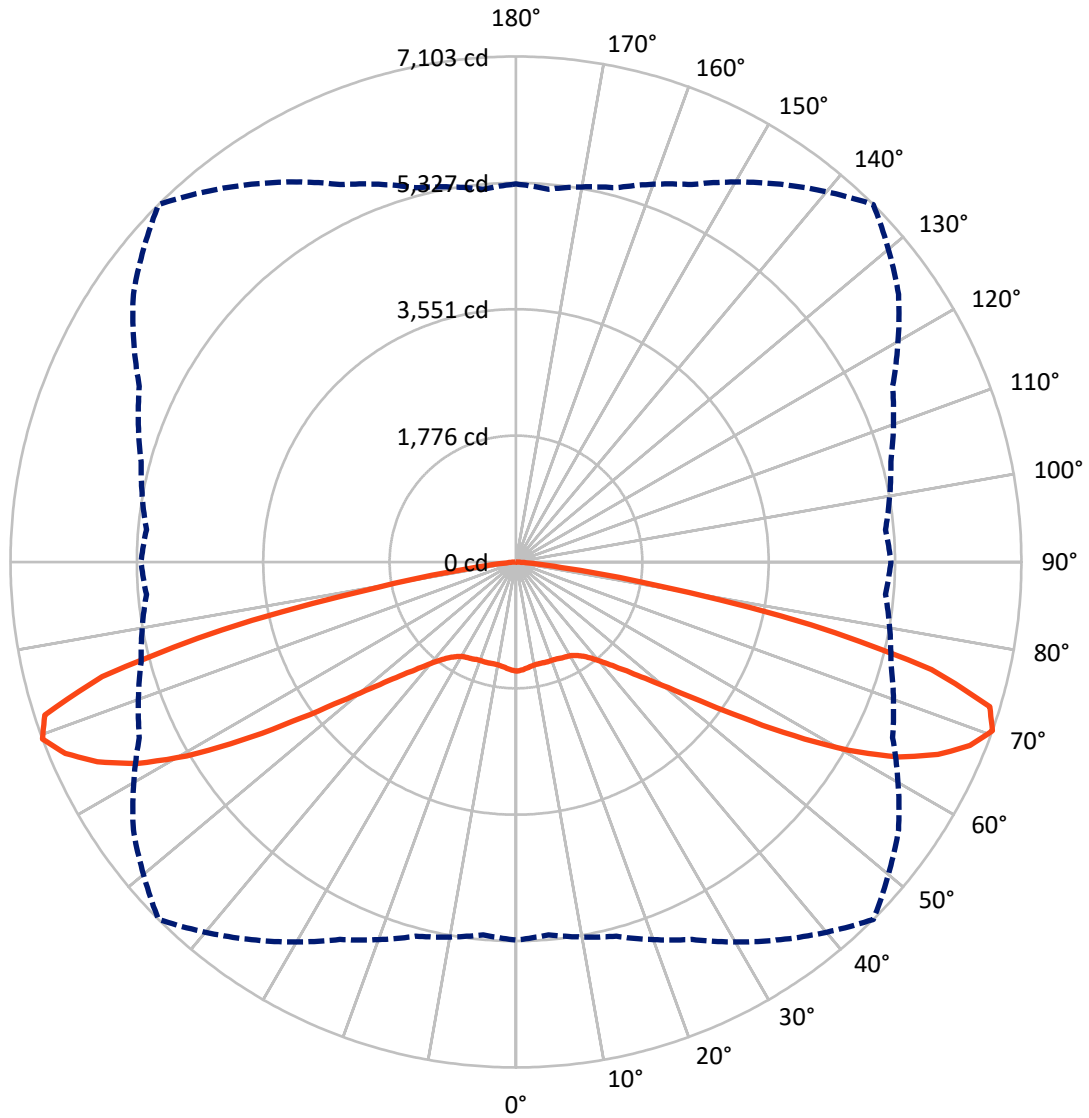
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8409.0	0.0	8409.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8409.0	0.0	8409.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16818.0	0.0	16818.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.7	0.8
10°-20°	419.0	2.5
20°-30°	697.3	4.1
30°-40°	1054.6	6.3
40°-50°	1752.5	10.4
50°-60°	3306.8	19.7
60°-70°	5583.7	33.2
70°-80°	3669.1	21.8
80°-90°	192.2	1.1
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°	16818.0	100.0
0°-180°	16818.0	100.0

Coefficient of Utilization



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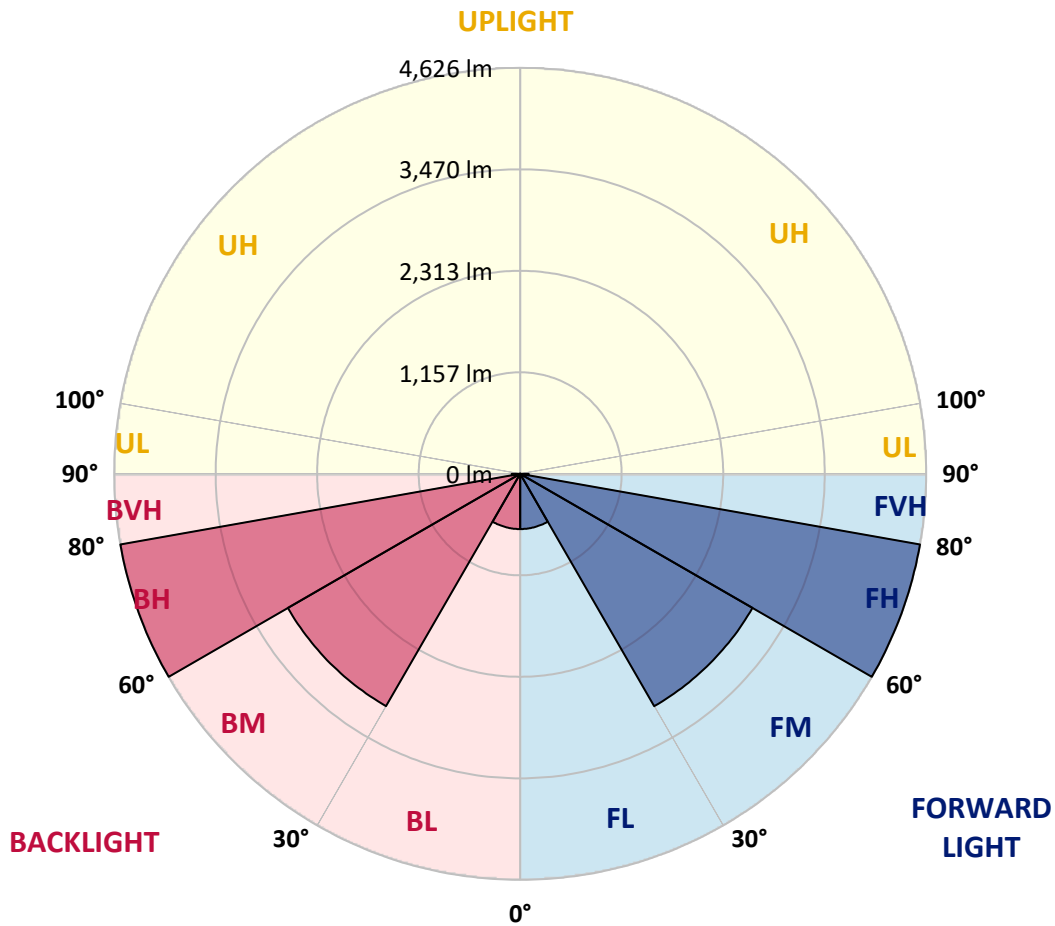
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	629.5	3.7			
FM (30°-60°)	3056.9	18.2			
FH (60°-80°)	4626.4	27.5			G2/5000
FVH (80°-90°)	96.1	0.6			G1/100
BL (0°-30°)	629.5	3.7	B2/1000		
BM (30°-60°)	3056.9	18.2	B3/5000		
BH (60°-80°)	4626.4	27.5	B4/5000		G2/5000
BVH (80°-90°)	96.1	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1534.1	1534.1	1534.1	1534.1	1534.1	1534.1	1534.1	1534.1	1534.1	1534.1	1534.1
2.5°	1524.5	1528.9	1527.1	1523.7	1523.7	1521.0	1523.7	1525.4	1528.0	1529.8	1528.9
5°	1504.4	1507.9	1507.0	1504.4	1505.3	1502.7	1504.4	1507.0	1508.8	1509.7	1509.7
7.5°	1486.9	1490.4	1488.7	1484.3	1484.3	1481.7	1482.6	1485.2	1487.8	1488.7	1488.7
10°	1482.6	1486.1	1480.8	1473.8	1471.2	1467.7	1468.6	1471.2	1476.4	1479.1	1479.1
12.5°	1484.3	1486.9	1481.7	1471.2	1468.6	1465.1	1465.1	1467.7	1474.7	1478.2	1479.1
15°	1489.6	1492.2	1484.3	1472.9	1470.3	1467.7	1466.8	1470.3	1478.2	1484.3	1485.2
17.5°	1499.2	1501.8	1489.6	1473.8	1470.3	1471.2	1470.3	1472.9	1485.2	1496.6	1496.6
20°	1507.9	1509.7	1493.1	1473.8	1470.3	1471.2	1470.3	1475.6	1491.3	1507.0	1507.9
22.5°	1510.5	1512.3	1496.6	1479.9	1477.3	1478.2	1477.3	1482.6	1497.4	1513.2	1513.2
25°	1511.4	1514.0	1501.8	1488.7	1493.1	1494.8	1493.1	1493.9	1505.3	1519.3	1518.4
27.5°	1524.5	1528.0	1516.7	1505.3	1507.9	1507.0	1509.7	1512.3	1521.0	1535.0	1531.5
30°	1551.6	1554.2	1544.6	1533.3	1531.5	1525.4	1533.3	1542.0	1551.6	1563.9	1561.2
32.5°	1596.2	1601.5	1589.2	1577.0	1569.1	1565.6	1571.7	1586.6	1599.7	1612.8	1607.6
35°	1670.5	1674.0	1662.6	1639.9	1625.9	1625.9	1631.2	1650.4	1671.4	1688.0	1681.9
37.5°	1775.4	1779.8	1759.7	1732.6	1711.6	1711.6	1718.6	1738.7	1770.2	1793.8	1785.0
40°	1903.0	1909.2	1883.8	1855.8	1835.7	1832.2	1841.0	1863.7	1893.4	1923.1	1913.5
42.5°	2056.9	2063.9	2030.7	2006.2	1990.4	1990.4	1994.8	2015.8	2042.9	2079.6	2077.0
45°	2253.6	2265.8	2220.4	2195.9	2181.0	2184.5	2187.1	2205.5	2230.0	2271.9	2270.2
47.5°	2487.8	2500.1	2452.0	2426.7	2424.0	2440.6	2430.1	2443.3	2456.4	2504.5	2490.5
50°	2753.6	2774.6	2741.3	2739.6	2744.8	2775.4	2751.0	2758.0	2743.1	2773.7	2755.3
52.5°	3078.8	3109.4	3103.2	3113.7	3172.3	3235.2	3179.3	3154.8	3098.9	3108.5	3076.1
55°	3473.0	3519.3	3528.1	3591.0	3723.9	3852.4	3733.5	3634.7	3515.8	3494.0	3459.9
57.5°	3921.5	3958.2	4000.1	4128.6	4376.9	4605.0	4376.9	4158.4	3971.3	3926.7	3895.2
60°	4404.0	4449.4	4489.7	4679.3	5048.2	5369.1	5041.2	4694.2	4446.8	4386.5	4334.1
62.5°	4922.4	4980.9	5008.9	5219.6	5649.7	6032.5	5655.8	5235.3	4960.8	4896.1	4843.7
65°	5419.8	5467.8	5499.3	5724.0	6134.8	6518.6	6162.8	5748.4	5466.1	5381.3	5339.3
67.5°	5651.4	5677.6	5754.6	6008.9	6442.5	6880.5	6515.9	6036.0	5720.5	5571.9	5573.6
70°	5312.2	5258.9	5444.2	5851.6	6479.2	7102.5	6563.1	5839.3	5453.0	5211.7	5269.4
72.5°	4105.0	4013.2	4334.9	5031.6	6059.6	6960.9	6101.6	5071.0	4535.1	4045.6	4167.1
75°	2233.5	2129.4	2573.5	3454.7	4832.3	6033.4	4943.3	3553.4	2865.5	2216.9	2361.1
77.5°	630.3	590.9	949.3	1671.4	2906.6	4236.2	3018.5	1708.1	1125.9	667.9	742.2
80°	193.2	187.1	253.5	503.5	1234.3	2028.9	1186.2	509.6	322.6	203.7	215.0
82.5°	114.5	104.9	125.9	183.6	314.7	637.3	306.0	191.4	153.9	103.2	111.9
85°	65.6	61.2	74.3	89.2	105.8	135.5	88.3	90.9	82.2	55.1	57.7
87.5°	27.1	24.5	28.8	28.0	24.5	31.5	23.6	28.0	33.2	21.9	20.1
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)