

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: P882582

Luminaire Tested: **NAV-SB2C-740-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882582
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-SB2C-740-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16645 lumens
Efficiency: N/A
Efficacy: 165.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

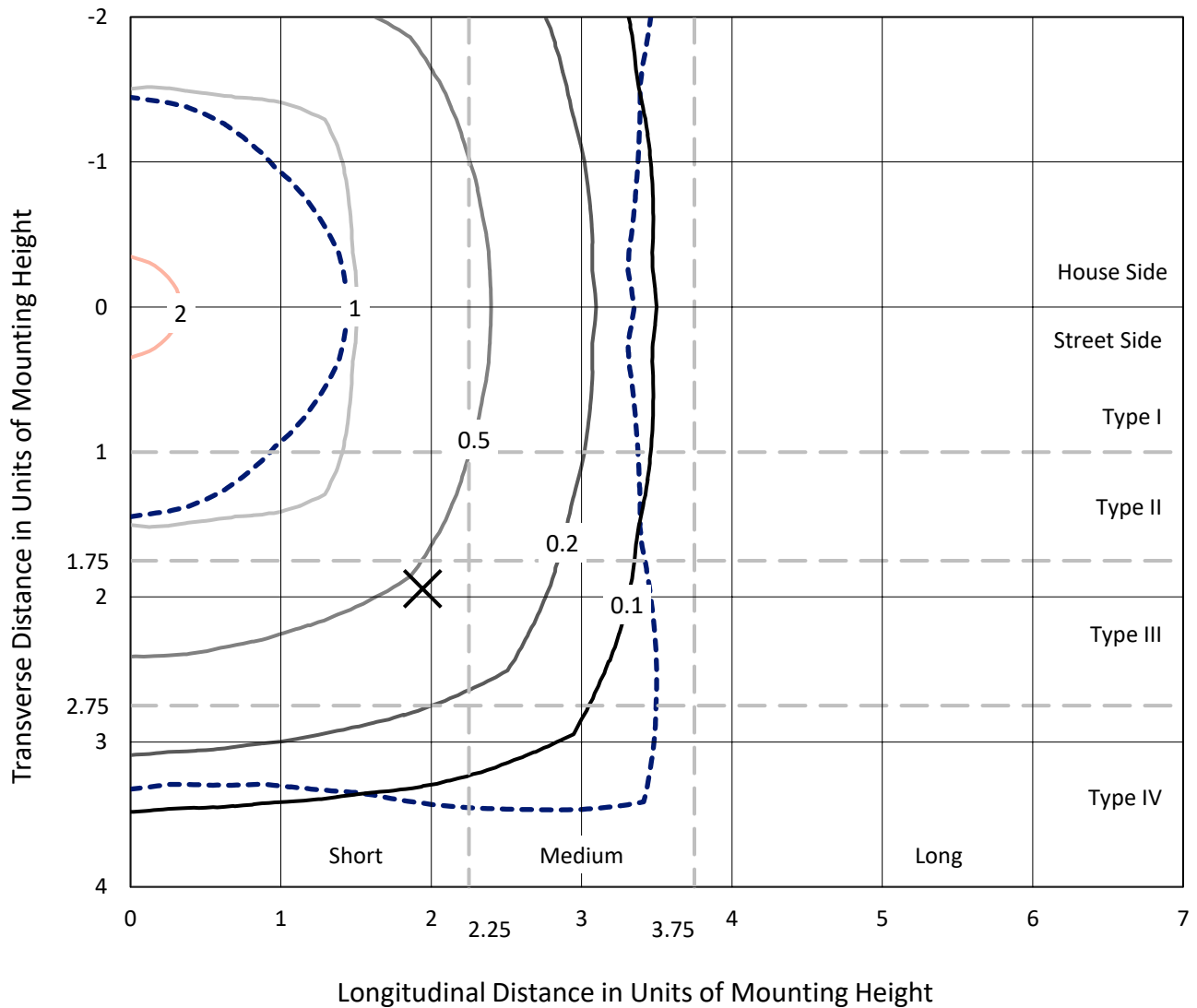
Input Watts (W): 100.9
Input Voltage (V): 120.0
Input Current (Ain): 0.857
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

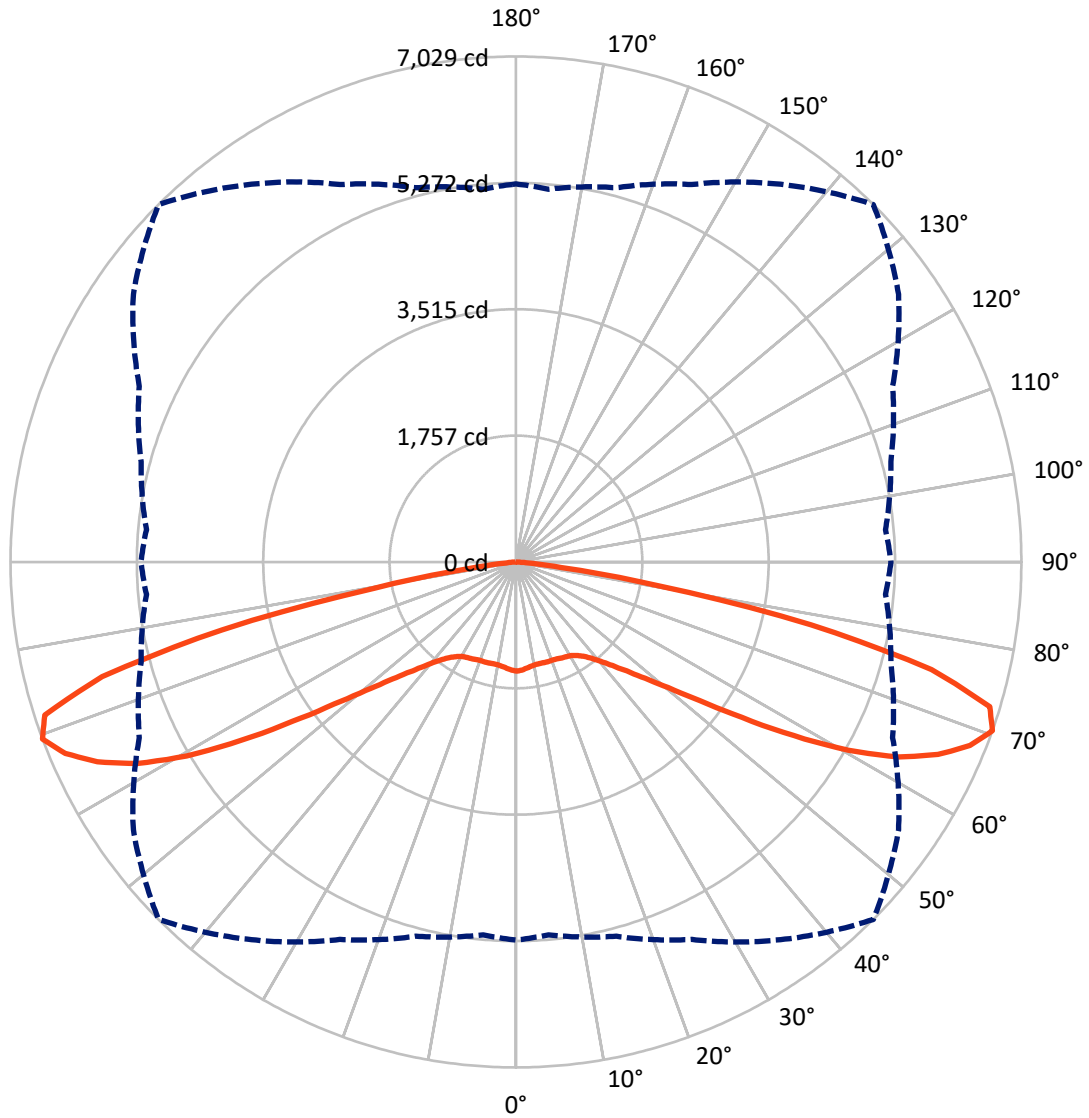
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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	8322.5	0.0	8322.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8322.5	0.0	8322.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16645.0	0.0	16645.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.2	0.8
10°-20°	414.7	2.5
20°-30°	690.2	4.1
30°-40°	1043.7	6.3
40°-50°	1734.4	10.4
50°-60°	3272.8	19.7
60°-70°	5526.3	33.2
70°-80°	3631.3	21.8
80°-90°	190.2	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°	16645.0	100.0
0°-180°	16645.0	100.0

Coefficient of Utilization



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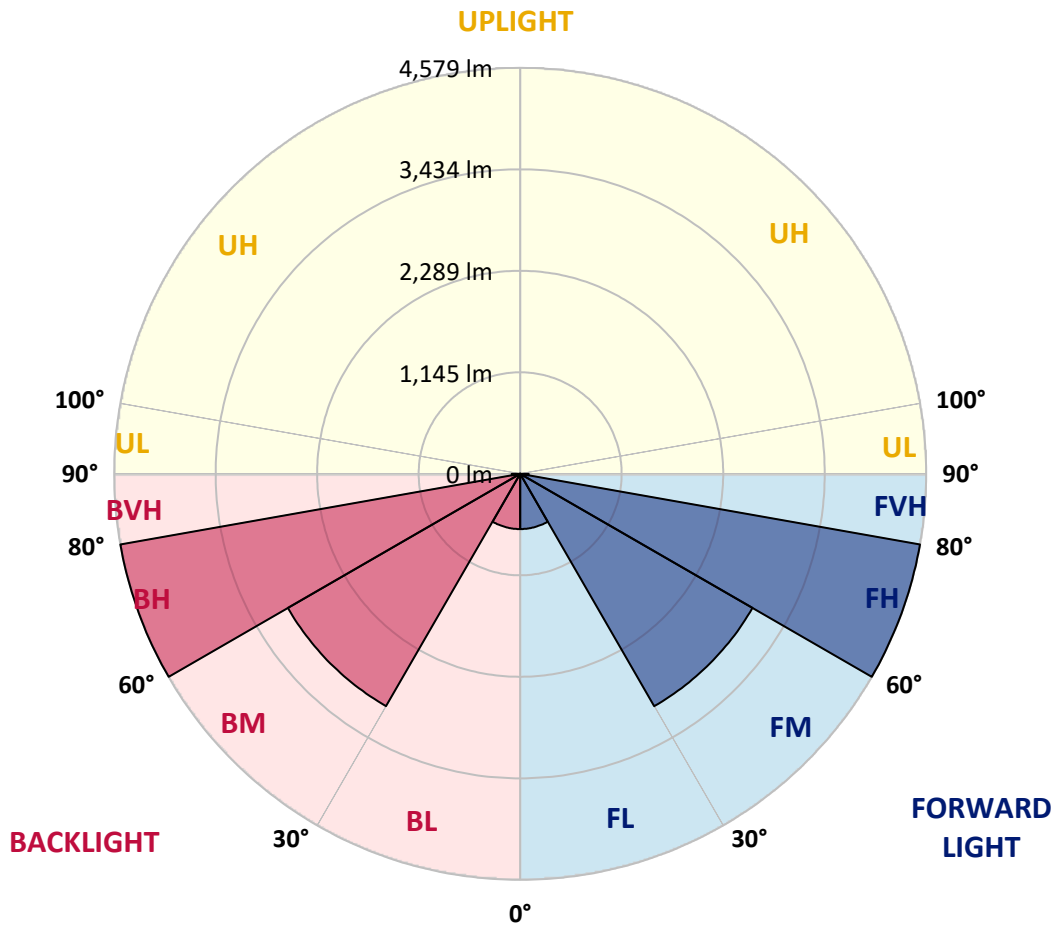
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	623.1	3.7			
FM (30°-60°)	3025.5	18.2			
FH (60°-80°)	4578.8	27.5			G2/5000
FVH (80°-90°)	95.1	0.6			G1/100
BL (0°-30°)	623.1	3.7	B2/1000		
BM (30°-60°)	3025.5	18.2	B3/5000		
BH (60°-80°)	4578.8	27.5	B4/5000		G2/5000
BVH (80°-90°)	95.1	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°	1518.4	1518.4	1518.4	1518.4	1518.4	1518.4	1518.4	1518.4	1518.4	1518.4	1518.4
2.5°	1508.8	1513.2	1511.4	1508.0	1508.0	1505.4	1508.0	1509.7	1512.3	1514.0	1513.2
5°	1488.9	1492.4	1491.5	1488.9	1489.8	1487.2	1488.9	1491.5	1493.3	1494.1	1494.1
7.5°	1471.6	1475.1	1473.4	1469.0	1469.0	1466.4	1467.3	1469.9	1472.5	1473.4	1473.4
10°	1467.3	1470.8	1465.6	1458.7	1456.1	1452.6	1453.5	1456.1	1461.3	1463.9	1463.9
12.5°	1469.0	1471.6	1466.4	1456.1	1453.5	1450.0	1450.0	1452.6	1459.5	1463.0	1463.9
15°	1474.2	1476.8	1469.0	1457.8	1455.2	1452.6	1451.7	1455.2	1463.0	1469.0	1469.9
17.5°	1483.8	1486.3	1474.2	1458.7	1455.2	1456.1	1455.2	1457.8	1469.9	1481.2	1481.2
20°	1492.4	1494.1	1477.7	1458.7	1455.2	1456.1	1455.2	1460.4	1476.0	1491.5	1492.4
22.5°	1495.0	1496.7	1481.2	1464.7	1462.1	1463.0	1462.1	1467.3	1482.0	1497.6	1497.6
25°	1495.9	1498.5	1486.3	1473.4	1477.7	1479.4	1477.7	1478.6	1489.8	1503.7	1502.8
27.5°	1508.8	1512.3	1501.1	1489.8	1492.4	1491.5	1494.1	1496.7	1505.4	1519.2	1515.8
30°	1535.7	1538.3	1528.7	1517.5	1515.8	1509.7	1517.5	1526.1	1535.7	1547.8	1545.2
32.5°	1579.8	1585.0	1572.9	1560.8	1553.0	1549.5	1555.6	1570.3	1583.2	1596.2	1591.0
35°	1653.3	1656.8	1645.5	1623.0	1609.2	1609.2	1614.4	1633.4	1654.2	1670.6	1664.6
37.5°	1757.1	1761.5	1741.6	1714.8	1694.0	1694.0	1700.9	1720.8	1752.0	1775.3	1766.7
40°	1883.5	1889.5	1864.4	1836.7	1816.8	1813.4	1822.0	1844.5	1873.9	1903.4	1893.8
42.5°	2035.7	2042.6	2009.8	1985.5	1970.0	1970.0	1974.3	1995.1	2021.9	2058.2	2055.6
45°	2230.4	2242.5	2197.5	2173.3	2158.6	2162.0	2164.6	2182.8	2207.0	2248.6	2246.8
47.5°	2462.3	2474.4	2426.8	2401.7	2399.1	2415.5	2405.2	2418.1	2431.1	2478.7	2464.8
50°	2725.3	2746.0	2713.1	2711.4	2716.6	2746.9	2722.7	2729.6	2714.9	2745.2	2727.0
52.5°	3047.1	3077.4	3071.3	3081.7	3139.7	3202.0	3146.6	3122.4	3067.0	3076.5	3044.5
55°	3437.3	3483.1	3491.8	3554.1	3685.6	3812.8	3695.1	3597.3	3479.7	3458.1	3424.3
57.5°	3881.1	3917.5	3959.0	4086.2	4331.9	4557.7	4331.9	4115.6	3930.4	3886.3	3855.2
60°	4358.7	4403.7	4443.5	4631.2	4996.3	5313.8	4989.4	4645.9	4401.1	4341.4	4289.5
62.5°	4871.7	4929.7	4957.4	5165.9	5591.5	5970.5	5597.6	5181.5	4909.8	4845.8	4793.9
65°	5364.0	5411.6	5442.7	5665.1	6071.7	6451.5	6099.4	5689.3	5409.9	5325.9	5284.4
67.5°	5593.3	5619.2	5695.4	5947.1	6376.2	6809.7	6448.9	5973.9	5661.6	5514.5	5516.3
70°	5257.6	5204.8	5388.2	5791.4	6412.6	7029.4	6495.6	5779.3	5396.9	5158.1	5215.2
72.5°	4062.8	3972.0	4290.3	4979.9	5997.3	6889.3	6038.8	5018.8	4488.5	4004.0	4124.2
75°	2210.5	2107.5	2547.0	3419.1	4782.6	5971.3	4892.5	3516.9	2836.0	2194.1	2336.8
77.5°	623.8	584.8	939.6	1654.2	2876.7	4192.6	2987.4	1690.5	1114.3	661.0	734.5
80°	191.2	185.1	250.9	498.3	1221.6	2008.0	1174.0	504.4	319.2	201.6	212.8
82.5°	113.3	103.8	124.6	181.7	311.5	630.7	302.8	189.5	152.3	102.1	110.7
85°	64.9	60.6	73.5	88.2	104.7	134.1	87.4	90.0	81.3	54.5	57.1
87.5°	26.8	24.2	28.6	27.7	24.2	31.1	23.4	27.7	32.9	21.6	19.9
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)