

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: P963963

Luminaire Tested: **NAV-SB3B-727-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P963963  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3B-727-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16247.3 lumens  
Efficiency: N/A  
Efficacy: 148.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

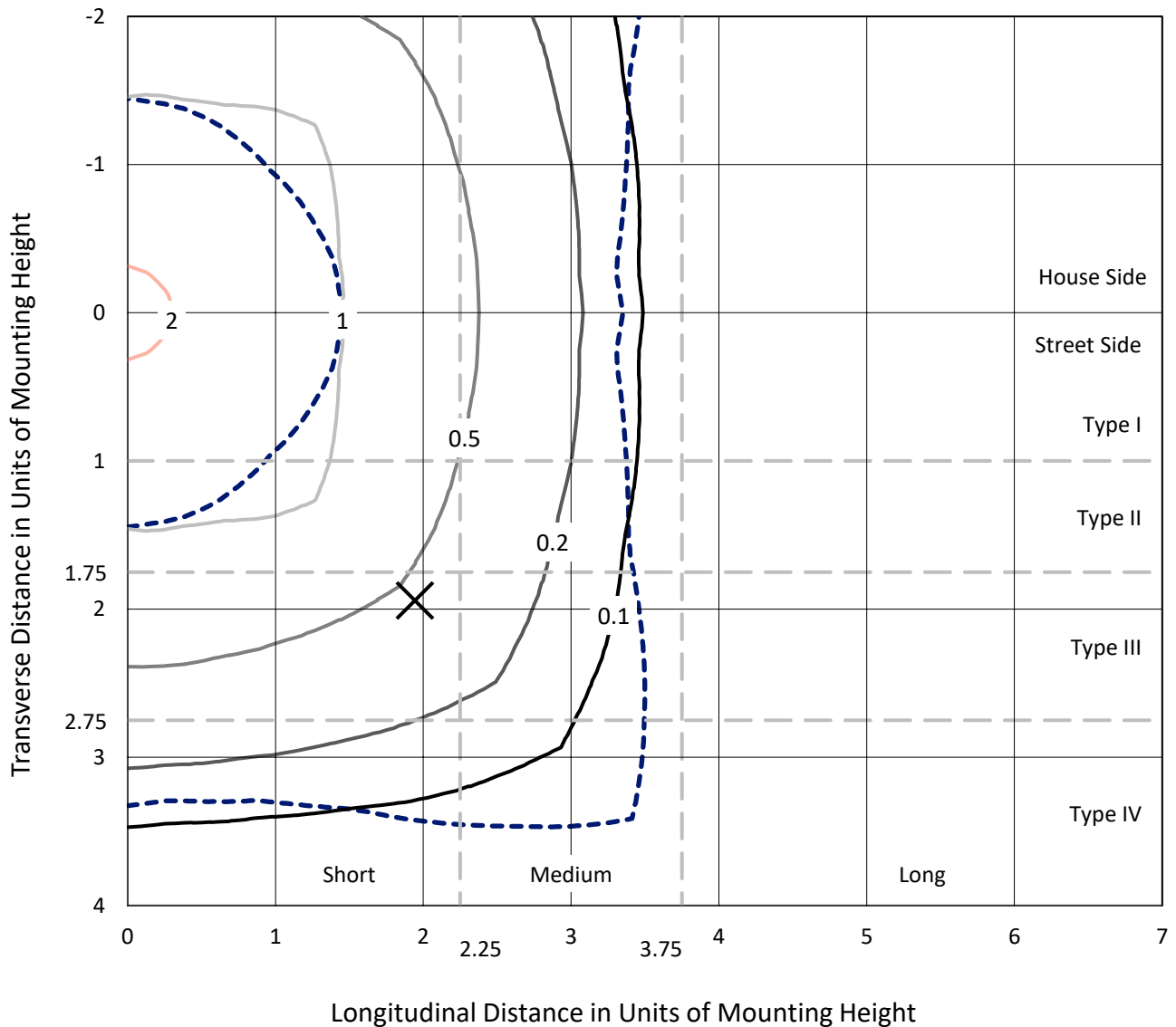
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

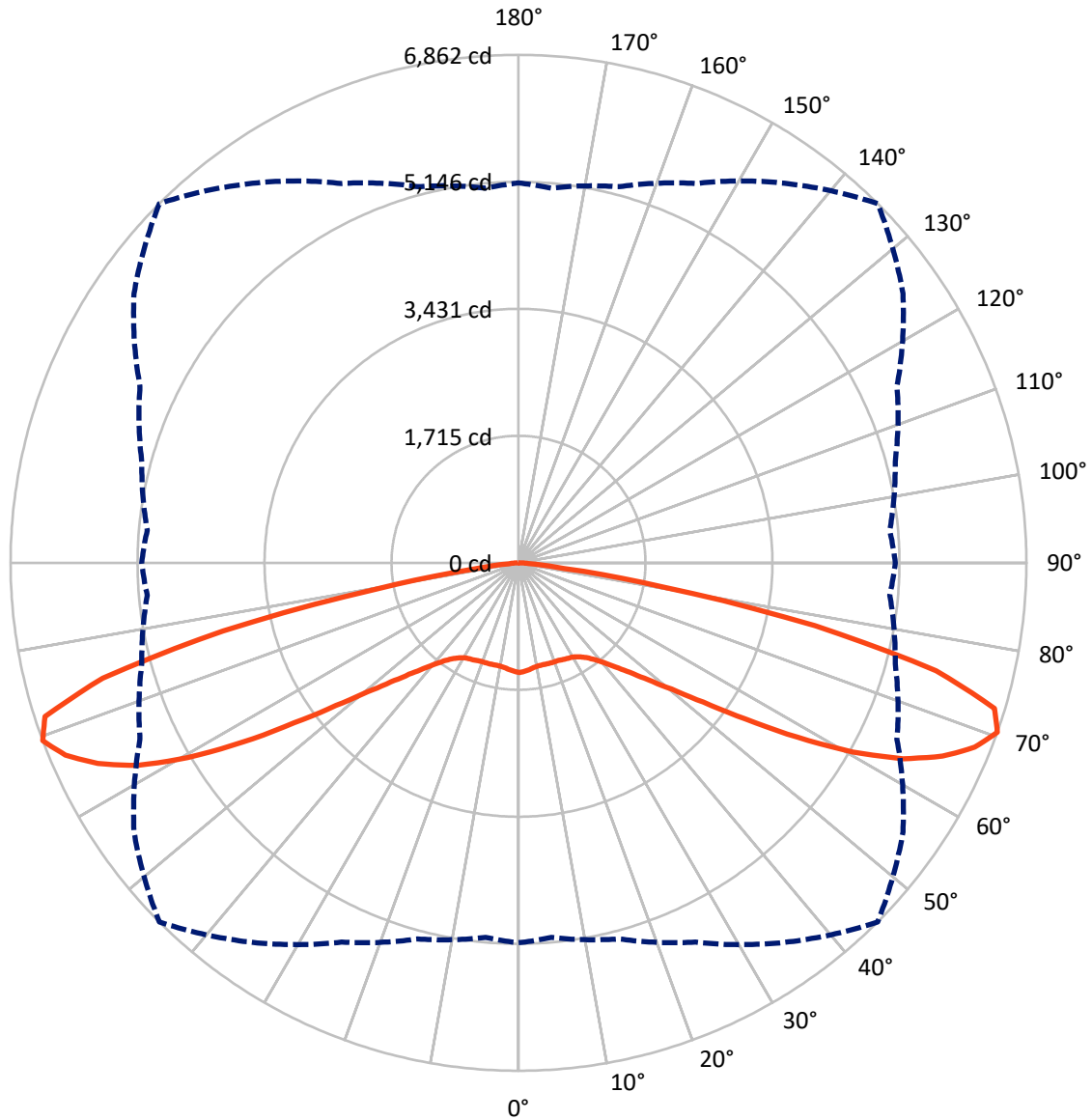
× Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	8123.6	0.0	8123.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8123.6	0.0	8123.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16247.3	0.0	16247.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.9	0.8
10°-20°	404.8	2.5
20°-30°	673.7	4.1
30°-40°	1018.8	6.3
40°-50°	1693.0	10.4
50°-60°	3194.6	19.7
60°-70°	5394.2	33.2
70°-80°	3544.6	21.8
80°-90°	185.7	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°	16247.3	100.0
0°-180°	16247.3	100.0

**Coefficient of Utilization**



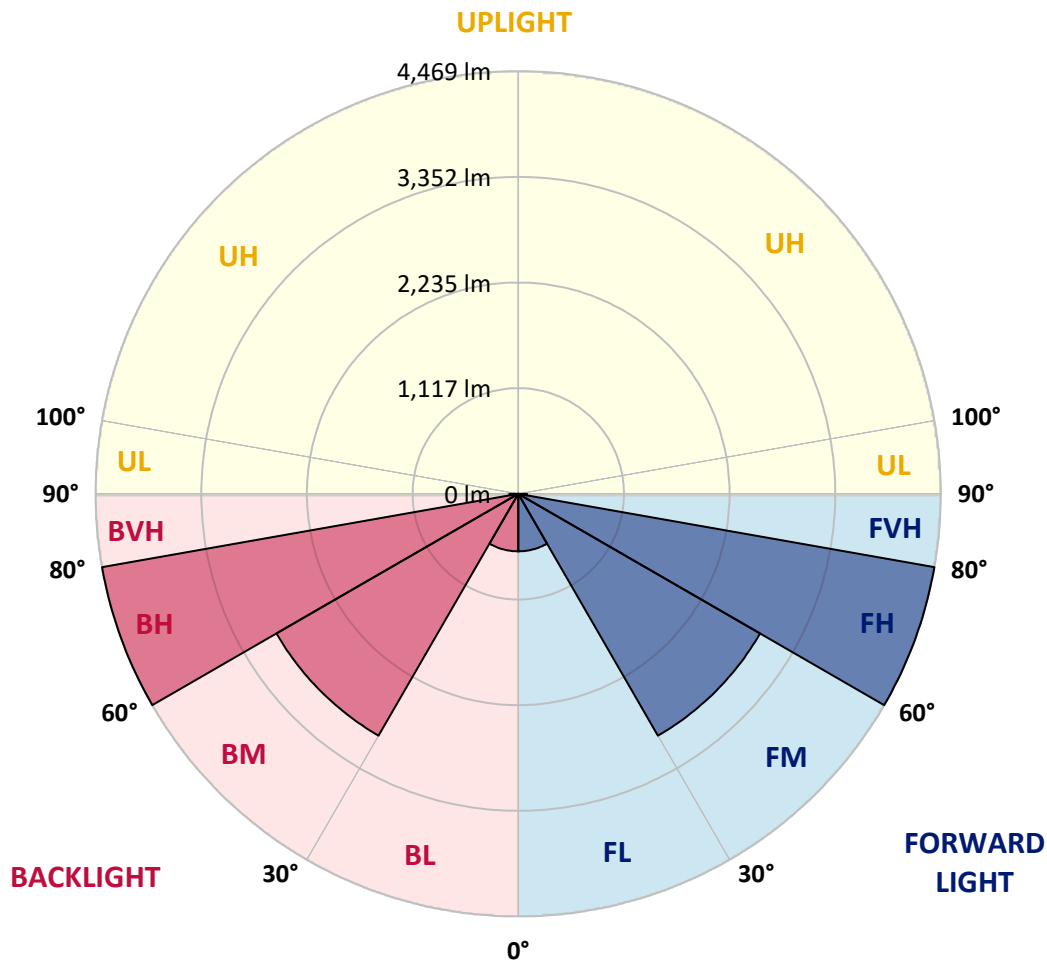
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	608.2	3.7			
FM (30°-60°)	2953.2	18.2			
FH (60°-80°)	4469.4	27.5			G2/5000
FVH (80°-90°)	92.9	0.6			G1/100
BL (0°-30°)	608.2	3.7	B2/1000		
BM (30°-60°)	2953.2	18.2	B3/5000		
BH (60°-80°)	4469.4	27.5	B4/5000		G2/5000
BVH (80°-90°)	92.9	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°	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0
2.5°	1472.8	1477.0	1475.3	1471.9	1471.9	1469.4	1471.9	1473.6	1476.2	1477.8	1477.0
5°	1453.3	1456.7	1455.9	1453.3	1454.2	1451.7	1453.3	1455.9	1457.6	1458.5	1458.5
7.5°	1436.4	1439.8	1438.2	1434.0	1434.0	1431.4	1432.2	1434.8	1437.4	1438.2	1438.2
10°	1432.2	1435.6	1430.6	1423.8	1421.3	1417.9	1418.7	1421.3	1426.4	1428.8	1428.8
12.5°	1434.0	1436.4	1431.4	1421.3	1418.7	1415.3	1415.3	1417.9	1424.6	1428.0	1428.8
15°	1439.0	1441.6	1434.0	1423.0	1420.4	1417.9	1417.1	1420.4	1428.0	1434.0	1434.8
17.5°	1448.3	1450.8	1439.0	1423.8	1420.4	1421.3	1420.4	1423.0	1434.8	1445.8	1445.8
20°	1456.7	1458.5	1442.4	1423.8	1420.4	1421.3	1420.4	1425.5	1440.7	1455.9	1456.7
22.5°	1459.3	1460.9	1445.8	1429.7	1427.2	1428.0	1427.2	1432.2	1446.6	1461.9	1461.9
25°	1460.1	1462.7	1450.8	1438.2	1442.4	1444.1	1442.4	1443.2	1454.2	1467.7	1466.9
27.5°	1472.8	1476.2	1465.2	1454.2	1456.7	1455.9	1458.5	1460.9	1469.4	1483.0	1479.6
30°	1499.0	1501.5	1492.2	1481.2	1479.6	1473.6	1481.2	1489.6	1499.0	1510.7	1508.3
32.5°	1542.0	1547.1	1535.2	1523.5	1515.9	1512.5	1518.4	1532.8	1545.4	1558.1	1553.0
35°	1613.9	1617.2	1606.2	1584.2	1570.7	1570.7	1575.8	1594.4	1614.7	1630.7	1624.8
37.5°	1715.1	1719.3	1700.0	1673.8	1653.5	1653.5	1660.3	1679.7	1710.1	1732.9	1724.5
40°	1838.4	1844.4	1819.9	1792.8	1773.5	1770.1	1778.5	1800.4	1829.1	1857.9	1848.6
42.5°	1987.1	1993.8	1961.7	1938.1	1922.9	1922.9	1927.1	1947.4	1973.5	2009.0	2006.5
45°	2177.1	2188.9	2145.0	2121.3	2107.0	2110.4	2112.9	2130.7	2154.2	2194.8	2193.1
47.5°	2403.4	2415.2	2368.8	2344.3	2341.8	2357.8	2347.7	2360.4	2373.0	2419.5	2406.0
50°	2660.2	2680.4	2648.3	2646.7	2651.7	2681.3	2657.6	2664.4	2650.0	2679.6	2661.8
52.5°	2974.2	3003.9	2997.9	3008.1	3064.6	3125.4	3071.4	3047.7	2993.7	3003.0	2971.8
55°	3355.1	3399.9	3408.3	3469.1	3597.5	3721.7	3606.8	3511.3	3396.5	3375.4	3342.5
57.5°	3788.4	3823.9	3864.4	3988.5	4228.3	4448.8	4228.3	4017.3	3836.5	3793.4	3763.1
60°	4254.6	4298.4	4337.3	4520.6	4877.0	5186.8	4870.2	4534.9	4295.9	4237.7	4187.0
62.5°	4755.3	4811.9	4838.9	5042.5	5457.9	5827.8	5463.9	5057.7	4792.5	4730.0	4679.3
65°	5235.8	5282.2	5312.7	5529.7	5926.7	6297.4	5953.6	5553.3	5280.6	5198.7	5158.1
67.5°	5459.7	5485.0	5559.3	5805.0	6223.9	6647.0	6294.8	5831.2	5526.3	5382.8	5384.4
70°	5132.0	5080.4	5259.5	5653.0	6259.4	6861.5	6340.4	5641.2	5267.9	5034.8	5090.6
72.5°	3965.7	3877.1	4187.8	4860.9	5854.0	6724.7	5894.6	4898.9	4381.3	3908.3	4025.7
75°	2157.6	2057.2	2486.1	3337.4	4668.4	5828.7	4775.6	3432.8	2768.2	2141.6	2280.9
77.5°	608.8	570.9	917.1	1614.7	2807.9	4092.4	2916.0	1650.1	1087.7	645.2	717.0
80°	186.7	180.7	244.9	486.5	1192.4	1960.1	1145.9	492.3	311.6	196.8	207.8
82.5°	110.6	101.4	121.6	177.3	304.0	615.6	295.6	184.9	148.6	99.6	108.1
85°	63.3	59.1	71.8	86.1	102.2	130.9	85.3	87.8	79.3	53.2	55.8
87.5°	26.1	23.7	27.9	27.1	23.7	30.4	22.8	27.1	32.1	21.1	19.4
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)