

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: P961328

Luminaire Tested: **NAV-SB2A-727-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P961328  
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-SB2A-727-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

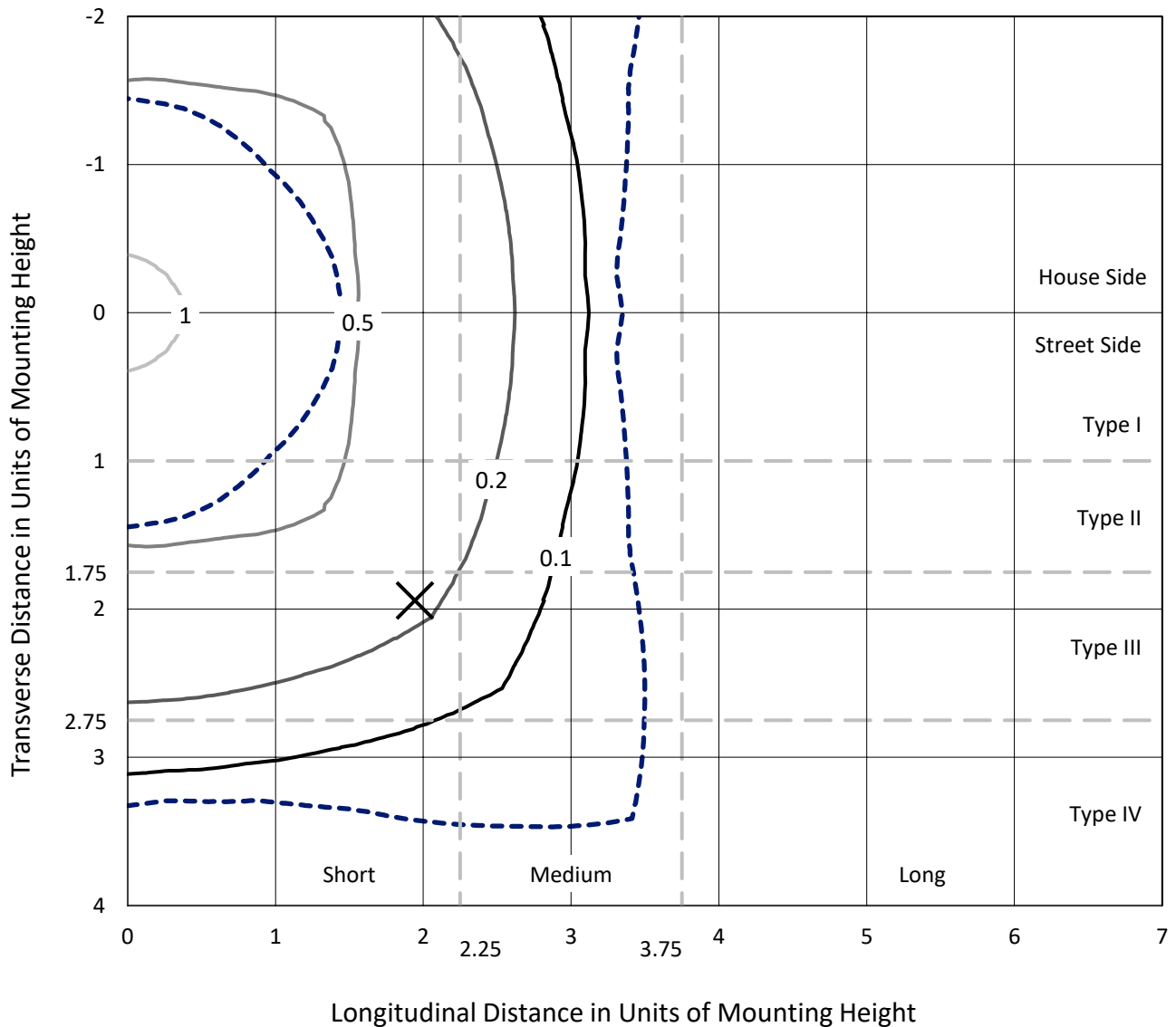
Lumens per Lamp: N/A  
Luminaire Lumens: 8626.4 lumens  
Efficiency: N/A  
Efficacy: 150.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

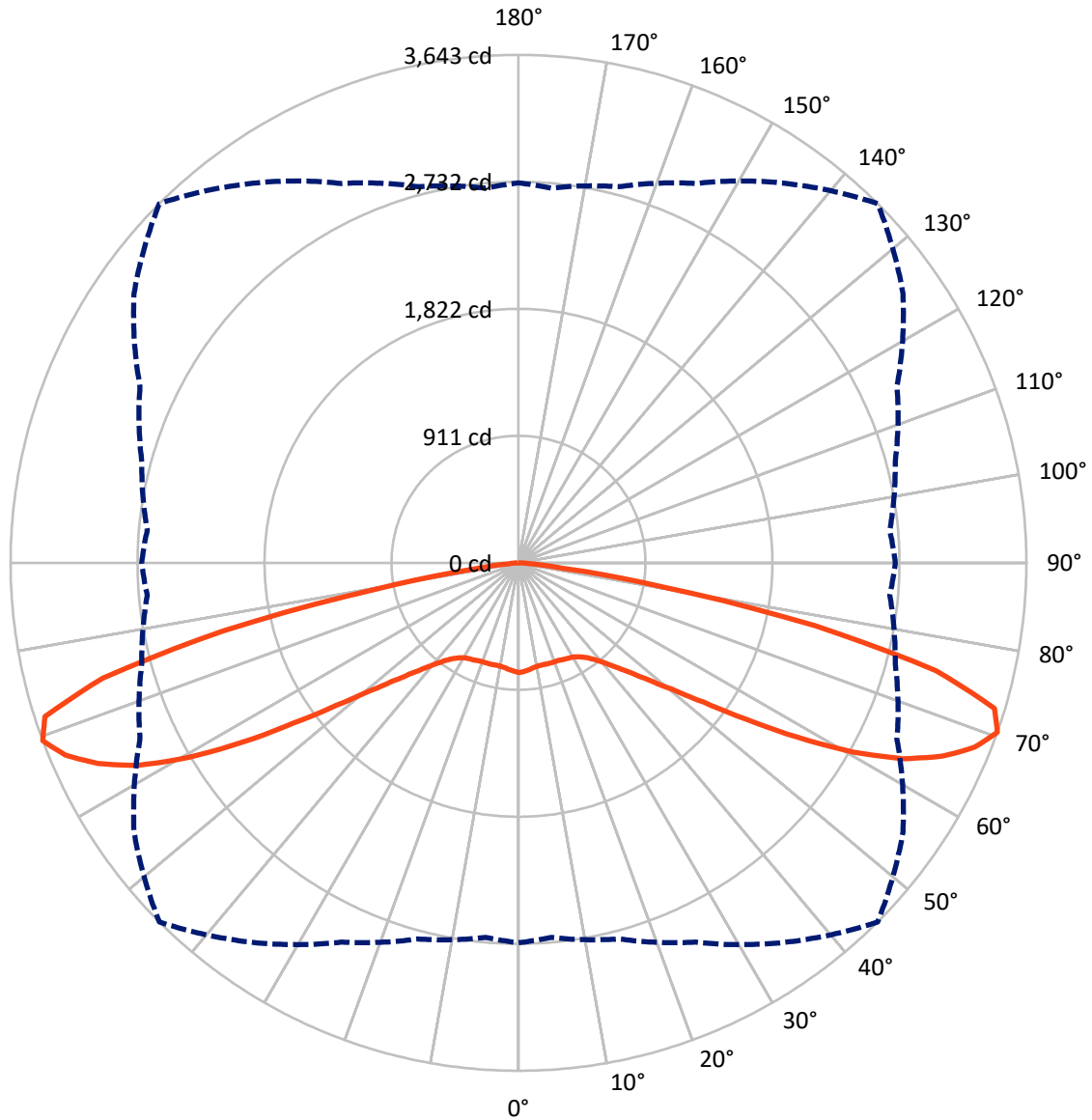
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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	4313.2	0.0	4313.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4313.2	0.0	4313.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8626.4	0.0	8626.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.2	0.8
10°-20°	214.9	2.5
20°-30°	357.7	4.1
30°-40°	540.9	6.3
40°-50°	898.9	10.4
50°-60°	1696.2	19.7
60°-70°	2864.1	33.2
70°-80°	1882.0	21.8
80°-90°	98.6	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°	8626.4	100.0
0°-180°	8626.4	100.0

**Coefficient of Utilization**



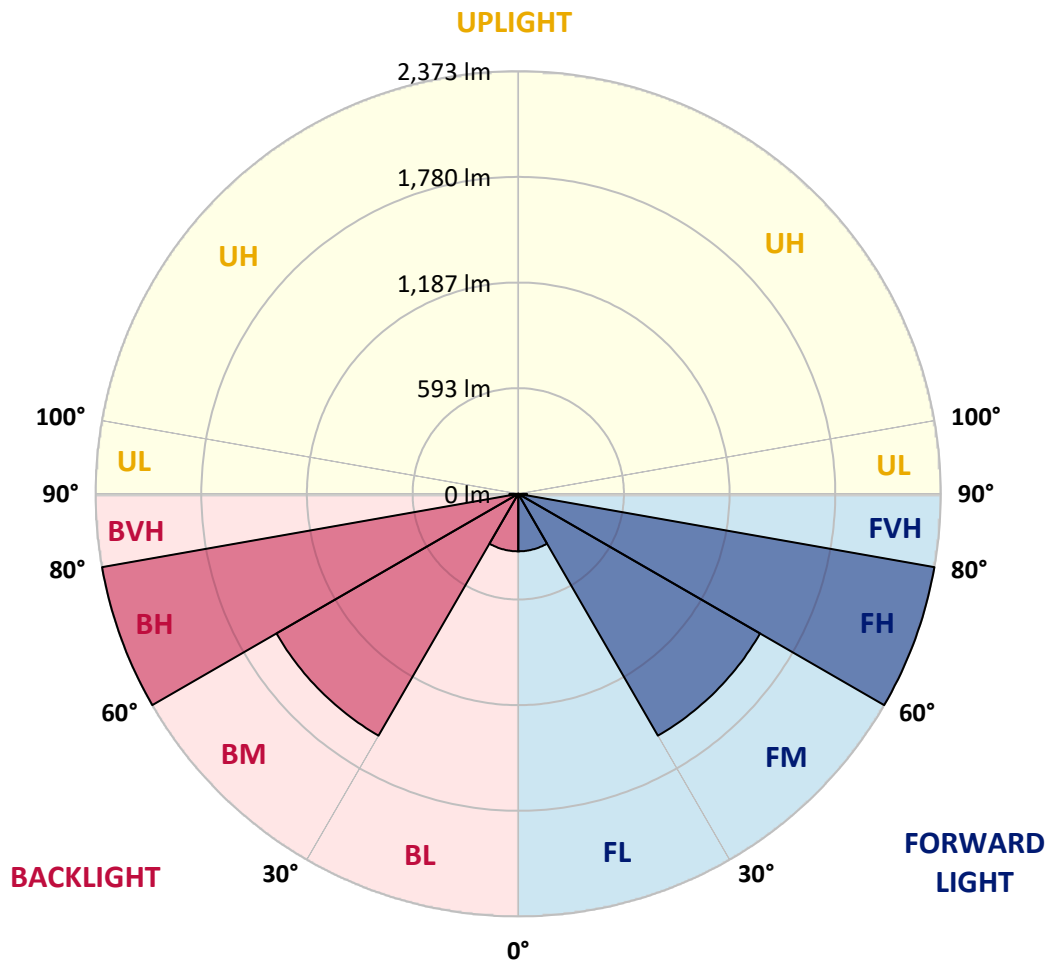
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	322.9	3.7			
FM (30°-60°)	1568.0	18.2			
FH (60°-80°)	2373.0	27.5			G2/5000
FVH (80°-90°)	49.3	0.6			G1/100
BL (0°-30°)	322.9	3.7	B1/500		
BM (30°-60°)	1568.0	18.2	B2/2500		
BH (60°-80°)	2373.0	27.5	B3/2500		G2/5000
BVH (80°-90°)	49.3	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9
2.5°	782.0	784.2	783.3	781.6	781.6	780.1	781.6	782.4	783.7	784.6	784.2
5°	771.6	773.5	773.0	771.6	772.1	770.8	771.6	773.0	773.9	774.4	774.4
7.5°	762.7	764.4	763.6	761.4	761.4	760.0	760.4	761.8	763.1	763.6	763.6
10°	760.4	762.2	759.5	755.9	754.6	752.9	753.3	754.6	757.3	758.6	758.6
12.5°	761.4	762.7	760.0	754.6	753.3	751.5	751.5	752.9	756.4	758.2	758.6
15°	764.0	765.4	761.4	755.5	754.2	752.9	752.3	754.2	758.2	761.4	761.8
17.5°	769.0	770.3	764.0	755.9	754.2	754.6	754.2	755.5	761.8	767.6	767.6
20°	773.5	774.4	765.8	755.9	754.2	754.6	754.2	756.9	765.0	773.0	773.5
22.5°	774.8	775.7	767.6	759.1	757.8	758.2	757.8	760.4	768.0	776.1	776.1
25°	775.2	776.5	770.3	763.6	765.8	766.7	765.8	766.3	772.1	779.3	778.8
27.5°	782.0	783.7	778.0	772.1	773.5	773.0	774.4	775.7	780.1	787.3	785.6
30°	795.9	797.2	792.3	786.5	785.6	782.4	786.5	790.9	795.9	802.2	800.8
32.5°	818.8	821.4	815.2	808.8	804.8	803.1	806.2	813.8	820.5	827.3	824.6
35°	856.8	858.6	852.8	841.1	833.9	833.9	836.7	846.5	857.3	865.8	862.6
37.5°	910.6	912.9	902.6	888.7	877.9	877.9	881.5	891.9	907.9	920.0	915.6
40°	976.1	979.3	966.3	951.9	941.6	939.8	944.3	955.9	971.2	986.5	981.5
42.5°	1055.0	1058.6	1041.6	1029.0	1021.0	1021.0	1023.2	1033.9	1047.9	1066.7	1065.4
45°	1155.9	1162.1	1138.9	1126.4	1118.7	1120.5	1121.9	1131.3	1143.8	1165.3	1164.4
47.5°	1276.1	1282.4	1257.7	1244.7	1243.3	1251.8	1246.5	1253.2	1259.9	1284.6	1277.5
50°	1412.3	1423.1	1406.1	1405.2	1407.9	1423.6	1411.0	1414.6	1407.0	1422.7	1413.3
52.5°	1579.2	1594.9	1591.7	1597.2	1627.2	1659.5	1630.8	1618.2	1589.5	1594.4	1577.9
55°	1781.4	1805.1	1809.6	1841.9	1910.1	1976.0	1915.0	1864.4	1803.4	1792.2	1774.7
57.5°	2011.5	2030.2	2051.7	2117.6	2245.1	2362.0	2245.1	2132.9	2037.0	2014.1	1997.9
60°	2258.9	2282.3	2302.9	2400.1	2589.4	2754.0	2585.8	2407.8	2280.9	2250.0	2223.0
62.5°	2524.8	2554.8	2569.2	2677.3	2897.9	3094.3	2901.0	2685.3	2544.6	2511.4	2484.5
65°	2779.9	2804.6	2820.7	2936.0	3146.7	3343.6	3161.1	2948.5	2803.7	2760.2	2738.7
67.5°	2898.8	2912.2	2951.7	3082.2	3304.5	3529.2	3342.2	3096.0	2934.2	2857.9	2858.8
70°	2724.8	2697.4	2792.5	3001.4	3323.4	3643.1	3366.4	2995.2	2797.0	2673.2	2702.8
72.5°	2105.6	2058.5	2223.5	2580.8	3108.1	3570.4	3129.6	2601.0	2326.1	2075.1	2137.4
75°	1145.6	1092.2	1320.0	1772.0	2478.7	3094.7	2535.5	1822.7	1469.7	1137.0	1211.0
77.5°	323.3	303.1	487.0	857.3	1490.9	2172.8	1548.3	876.2	577.5	342.6	380.7
80°	99.1	95.9	130.1	258.3	633.1	1040.7	608.4	261.4	165.4	104.4	110.3
82.5°	58.7	53.8	64.6	94.2	161.4	326.9	156.9	98.2	78.9	52.9	57.4
85°	33.6	31.4	38.1	45.7	54.2	69.5	45.3	46.6	42.1	28.3	29.6
87.5°	13.9	12.5	14.8	14.3	12.5	16.1	12.1	14.3	17.0	11.2	10.4
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)