

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: P959747

Luminaire Tested: **NAV-SB1B-727-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959747
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-SB1B-727-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5417.1 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

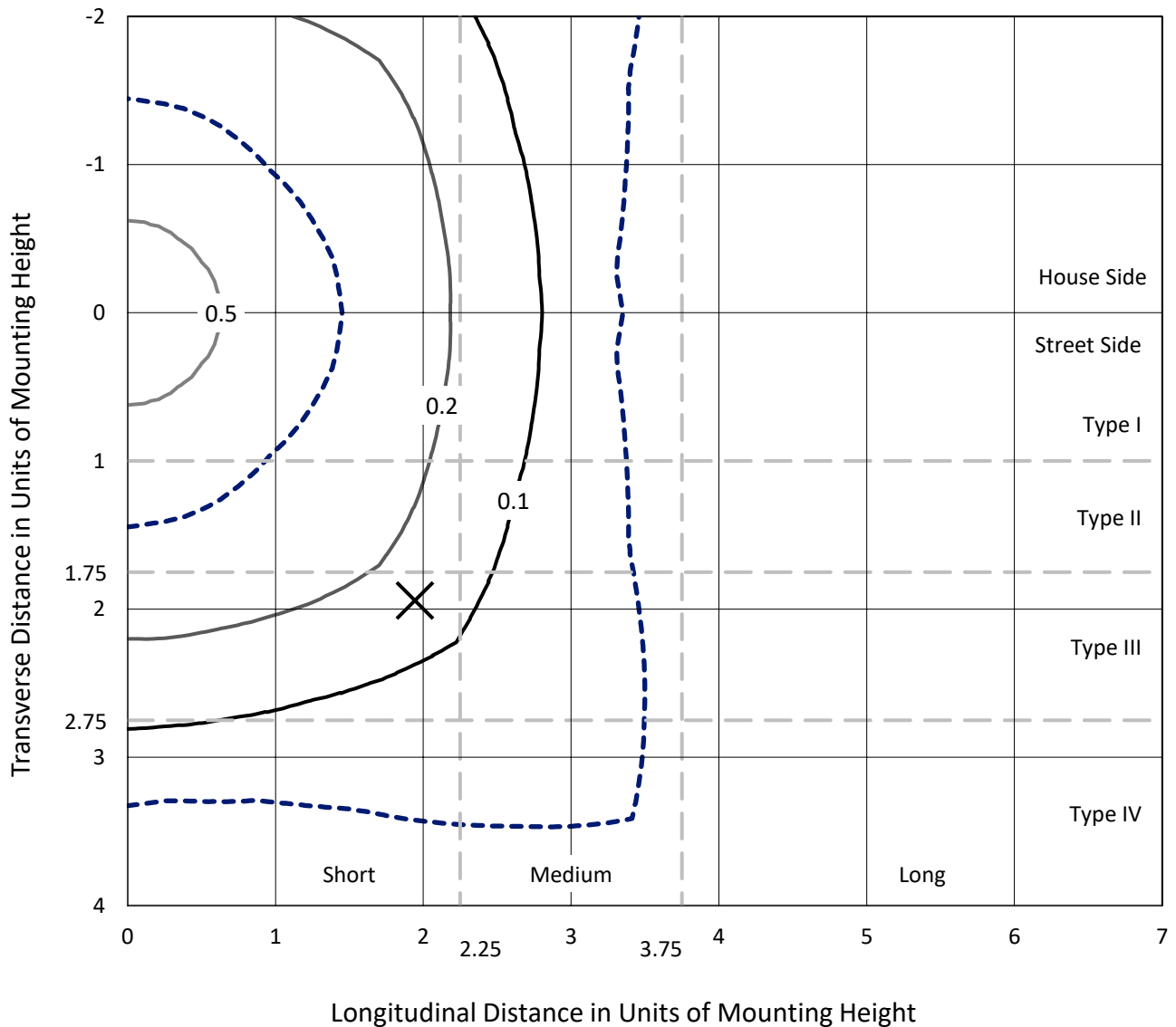
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

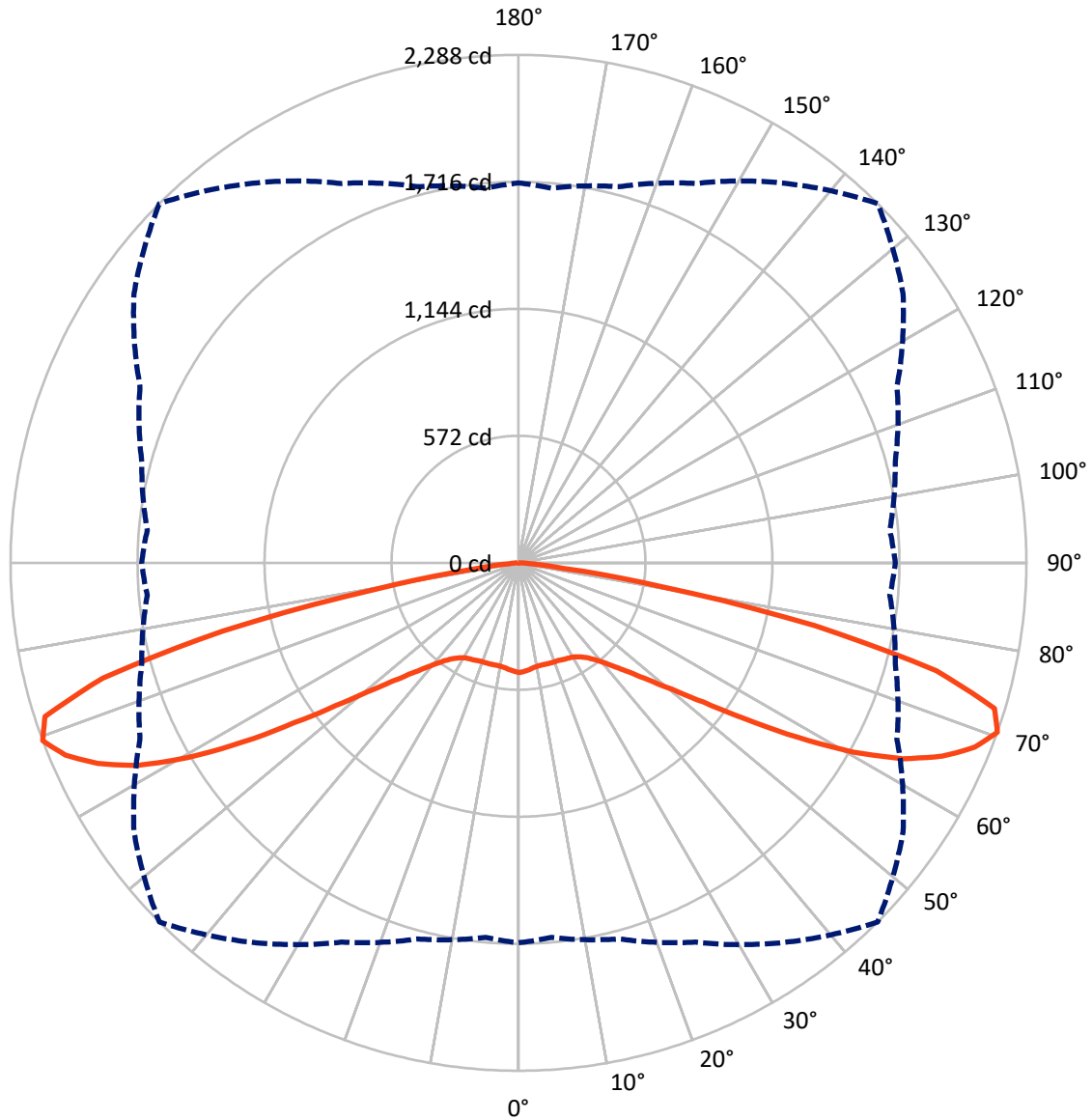
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 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	2708.6	0.0	2708.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2708.6	0.0	2708.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	5417.1	0.0	5417.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.0	0.8
10°-20°	135.0	2.5
20°-30°	224.6	4.1
30°-40°	339.7	6.3
40°-50°	564.5	10.4
50°-60°	1065.1	19.7
60°-70°	1798.5	33.2
70°-80°	1181.8	21.8
80°-90°	61.9	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°	5417.1	100.0
0°-180°	5417.1	100.0

Coefficient of Utilization



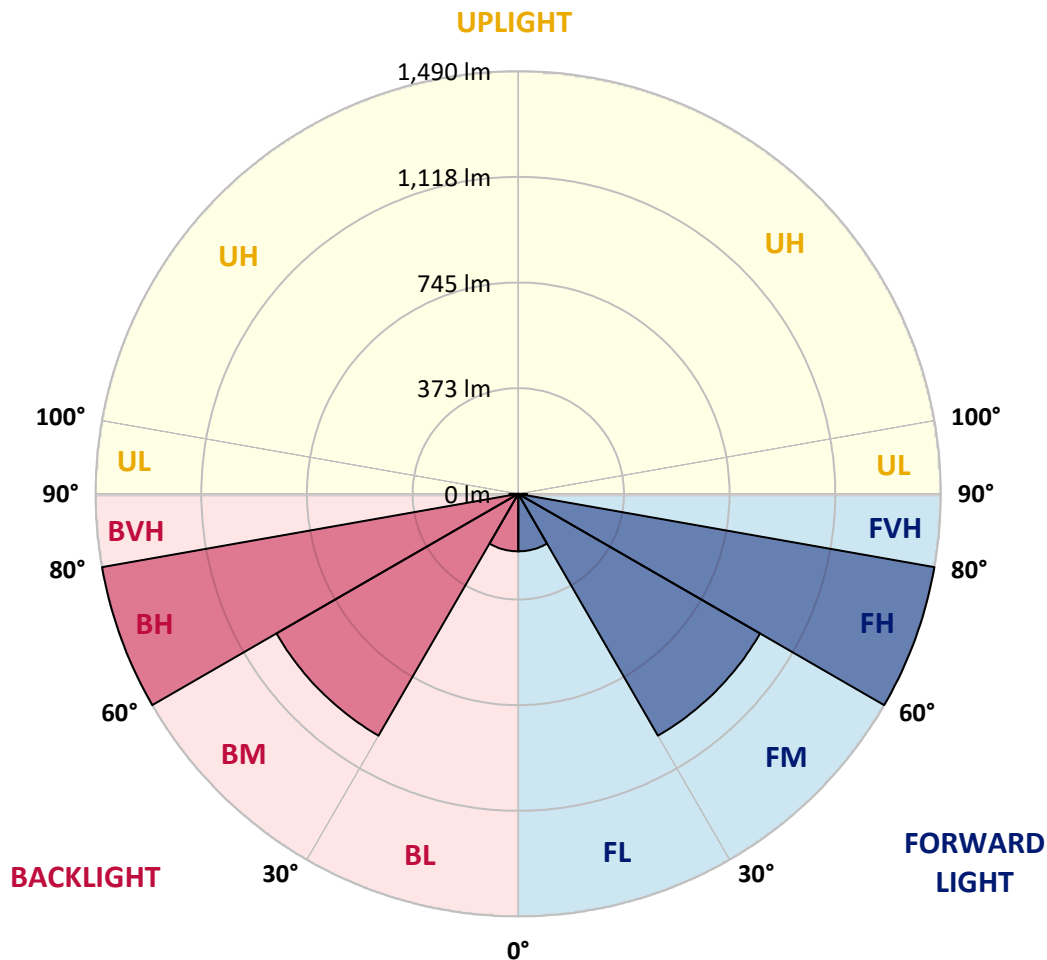
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	202.8	3.7			
FM (30°-60°)	984.7	18.2			
FH (60°-80°)	1490.2	27.5			G1/1800
FVH (80°-90°)	31.0	0.6			G1/100
BL (0°-30°)	202.8	3.7	B1/500		
BM (30°-60°)	984.7	18.2	B1/1000		
BH (60°-80°)	1490.2	27.5	B3/2500		G1/1800
BVH (80°-90°)	31.0	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-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2
2.5°	491.1	492.5	491.9	490.8	490.8	489.9	490.8	491.4	492.2	492.7	492.5
5°	484.6	485.7	485.4	484.6	484.8	484.0	484.6	485.4	486.0	486.3	486.3
7.5°	479.0	480.1	479.5	478.1	478.1	477.2	477.5	478.4	479.2	479.5	479.5
10°	477.5	478.7	476.9	474.7	473.9	472.7	473.0	473.9	475.6	476.4	476.4
12.5°	478.1	479.0	477.2	473.9	473.0	471.9	471.9	472.7	475.0	476.1	476.4
15°	479.8	480.6	478.1	474.5	473.6	472.7	472.4	473.6	476.1	478.1	478.4
17.5°	482.9	483.7	479.8	474.7	473.6	473.9	473.6	474.5	478.4	482.1	482.1
20°	485.7	486.3	480.9	474.7	473.6	473.9	473.6	475.3	480.3	485.4	485.7
22.5°	486.6	487.1	482.1	476.7	475.8	476.1	475.8	477.5	482.4	487.4	487.4
25°	486.9	487.7	483.7	479.5	480.9	481.4	480.9	481.2	484.8	489.3	489.1
27.5°	491.1	492.2	488.5	484.8	485.7	485.4	486.3	487.1	489.9	494.5	493.3
30°	499.8	500.6	497.5	493.8	493.3	491.4	493.8	496.7	499.8	503.7	502.9
32.5°	514.1	515.9	511.9	508.0	505.4	504.3	506.2	511.1	515.3	519.5	517.8
35°	538.1	539.3	535.6	528.2	523.7	523.7	525.4	531.6	538.3	543.7	541.7
37.5°	571.8	573.3	566.8	558.1	551.3	551.3	553.6	560.1	570.2	577.8	574.9
40°	612.9	614.9	606.8	597.8	591.3	590.2	593.0	600.3	609.9	619.4	616.3
42.5°	662.6	664.8	654.1	646.2	641.1	641.1	642.6	649.3	658.0	669.8	669.0
45°	725.9	729.8	715.1	707.2	702.5	703.7	704.5	710.4	718.3	731.7	731.2
47.5°	801.3	805.2	789.8	781.7	780.7	786.2	782.8	787.0	791.2	806.7	802.2
50°	886.9	893.7	883.0	882.4	884.2	894.0	886.1	888.4	883.6	893.4	887.5
52.5°	991.7	1001.5	999.6	1003.0	1021.8	1042.1	1024.1	1016.2	998.1	1001.2	990.9
55°	1118.7	1133.5	1136.4	1156.7	1199.5	1240.9	1202.5	1170.8	1132.4	1125.4	1114.5
57.5°	1263.1	1274.9	1288.4	1329.8	1409.8	1483.3	1409.8	1339.4	1279.2	1264.8	1254.7
60°	1418.5	1433.2	1446.2	1507.3	1626.1	1729.4	1623.8	1512.0	1432.3	1412.9	1396.0
62.5°	1585.5	1604.3	1613.4	1681.2	1819.8	1943.1	1821.7	1686.3	1597.9	1577.1	1560.2
65°	1745.7	1761.2	1771.3	1843.7	1976.0	2099.6	1985.0	1851.6	1760.6	1733.4	1719.8
67.5°	1820.3	1828.8	1853.5	1935.5	2075.1	2216.3	2098.8	1944.2	1842.5	1794.7	1795.3
70°	1711.1	1693.9	1753.6	1884.8	2087.0	2287.7	2114.0	1880.9	1756.4	1678.7	1697.3
72.5°	1322.2	1292.6	1396.3	1620.7	1951.8	2242.1	1965.3	1633.3	1460.7	1303.1	1342.2
75°	719.4	685.9	828.9	1112.7	1556.5	1943.4	1592.2	1144.6	923.0	714.0	760.6
77.5°	203.1	190.3	305.8	538.3	936.2	1364.5	972.2	550.2	362.6	215.1	239.0
80°	62.2	60.3	81.7	162.2	397.6	653.5	382.1	164.2	103.9	65.6	69.3
82.5°	36.9	33.8	40.6	59.1	101.4	205.3	98.5	61.7	49.5	33.2	36.1
85°	21.1	19.7	23.9	28.7	34.0	43.7	28.4	29.3	26.4	17.7	18.6
87.5°	8.7	7.9	9.3	9.0	7.9	10.1	7.6	9.0	10.7	7.1	6.5
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)