

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: P959745

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959745
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-727-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5608.8 lumens
Efficiency: N/A
Efficacy: 140.9 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

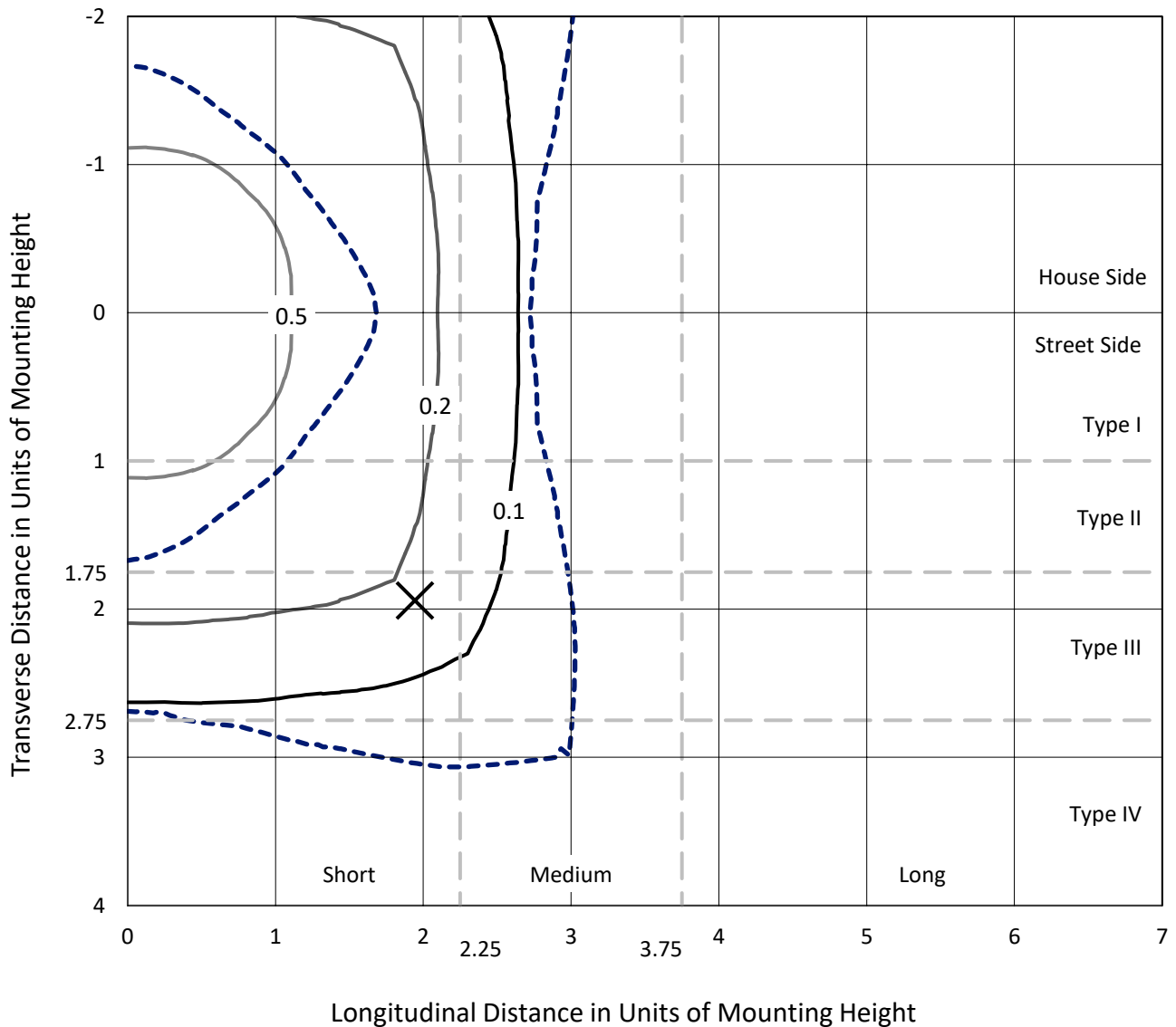
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

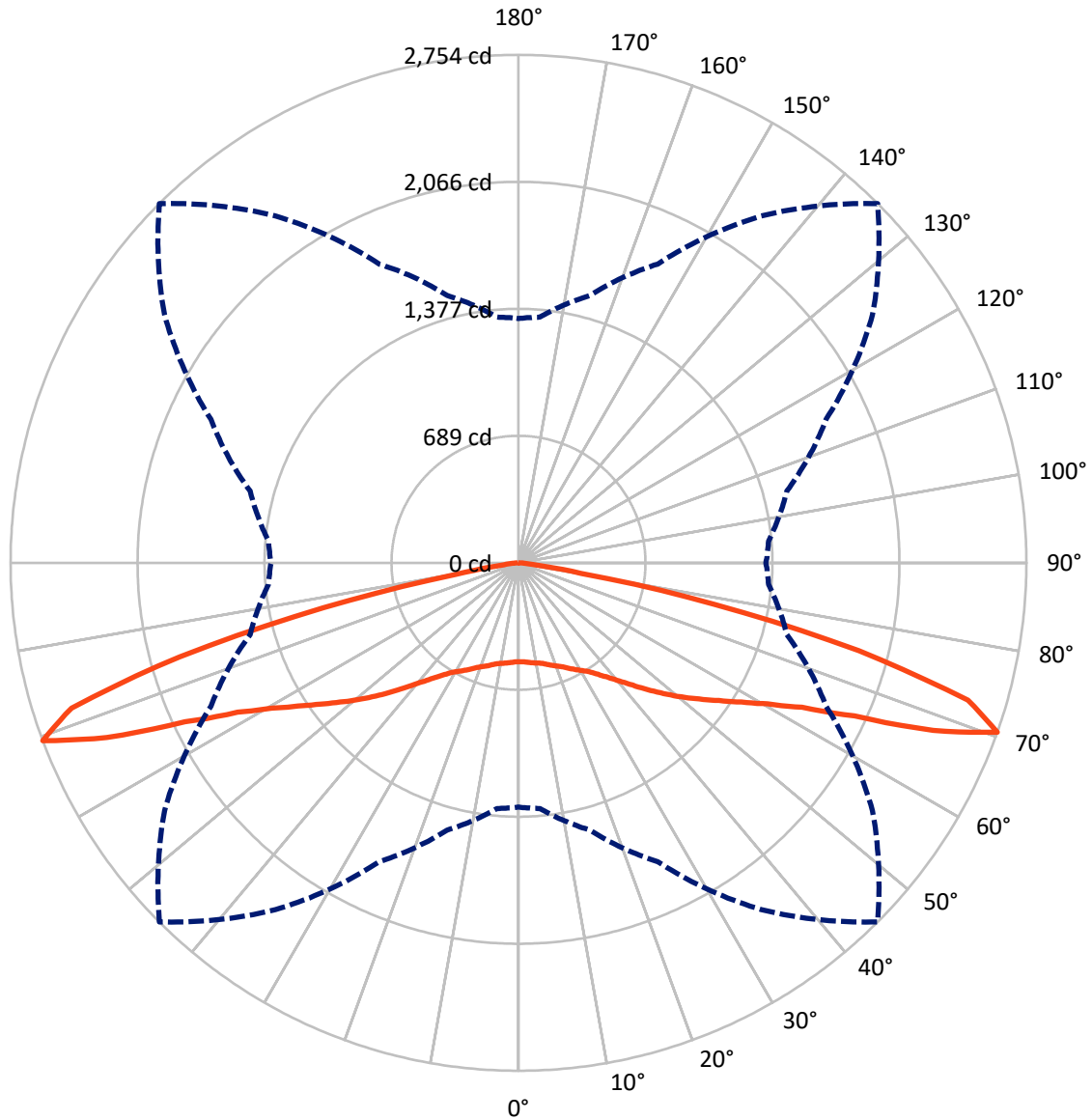
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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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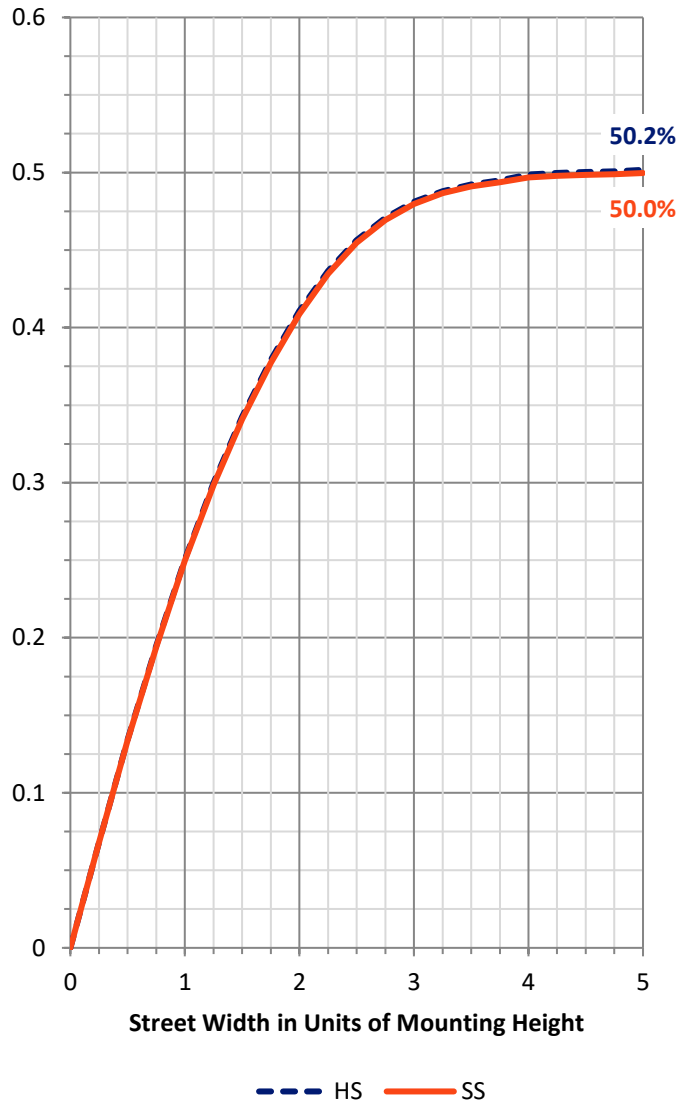
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2804.4	0.0	2804.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2804.4	0.0	2804.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	5608.8	0.0	5608.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.2	0.9
10°-20°	161.8	2.9
20°-30°	289.3	5.2
30°-40°	468.9	8.4
40°-50°	763.7	13.6
50°-60°	1164.4	20.8
60°-70°	1732.2	30.9
70°-80°	944.1	16.8
80°-90°	32.1	0.6
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°	5608.8	100.0
0°-180°	5608.8	100.0

Coefficient of Utilization



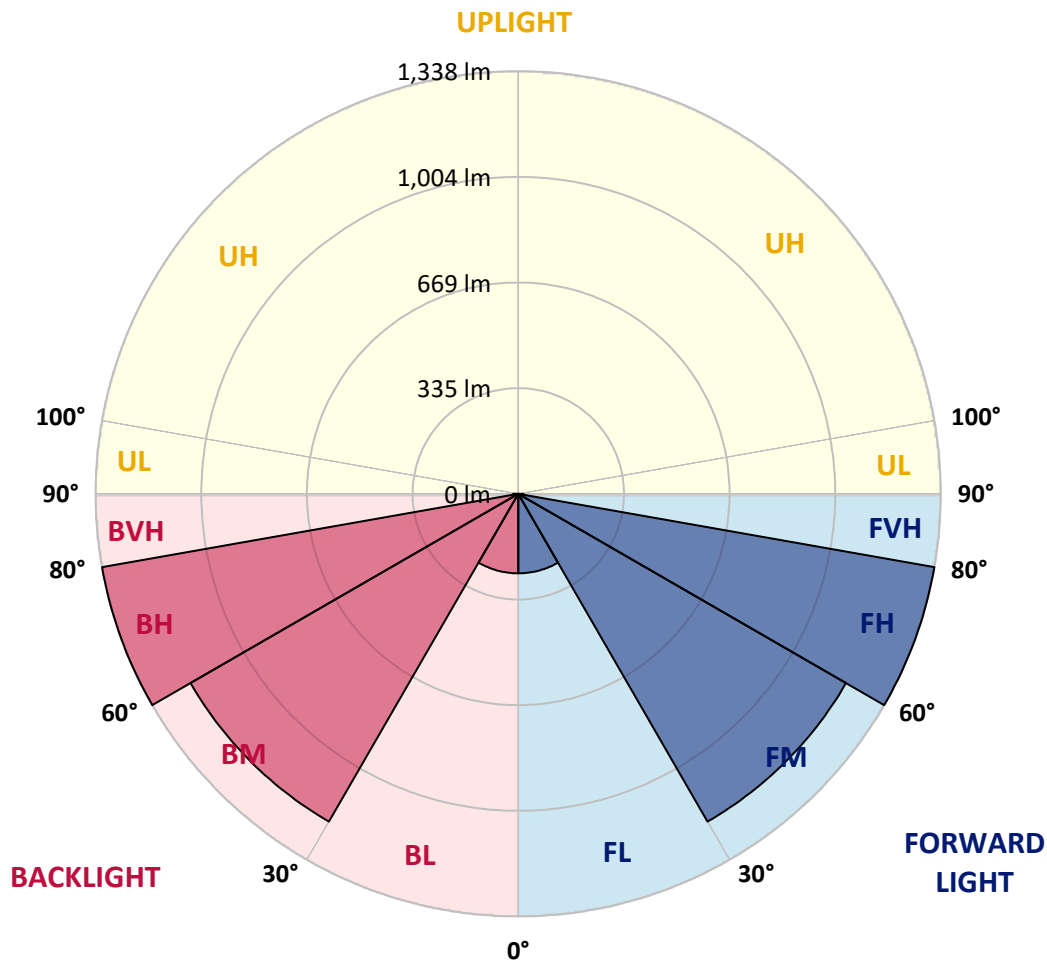
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	251.6	4.5			
FM (30°-60°)	1198.5	21.4			
FH (60°-80°)	1338.2	23.9			G1/1800
FVH (80°-90°)	16.1	0.3			G1/100
BL (0°-30°)	251.6	4.5	B1/500		
BM (30°-60°)	1198.5	21.4	B2/2500		
BH (60°-80°)	1338.2	23.9	B3/2500		G1/1800
BVH (80°-90°)	16.1	0.3			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°	537.3	537.3	537.3	537.3	537.3	537.3	537.3	537.3	537.3	537.3	537.3
2.5°	539.8	540.4	539.3	538.6	538.1	537.3	537.5	538.9	540.1	539.8	540.1
5°	544.3	544.9	544.1	543.8	542.6	542.3	542.3	543.8	544.6	544.1	544.3
7.5°	549.4	550.2	548.8	548.5	548.0	547.5	547.1	548.5	549.4	549.4	549.4
10°	554.1	555.0	553.9	553.0	552.5	552.5	551.9	553.0	554.4	554.1	554.1
12.5°	559.2	559.8	558.6	558.1	558.1	558.9	558.1	558.6	559.8	559.2	558.9
15°	565.4	565.7	565.4	566.3	567.6	570.5	568.0	567.4	568.0	566.5	566.5
17.5°	573.9	574.4	575.5	577.5	579.5	584.6	580.0	578.6	578.6	575.8	575.8
20°	584.2	585.2	586.8	590.2	592.8	597.6	593.1	591.0	590.2	586.5	586.5
22.5°	595.3	596.7	599.2	603.7	608.2	612.7	608.2	604.9	602.3	597.6	597.3
25°	607.9	609.7	613.6	620.9	627.1	633.6	628.2	621.5	616.4	609.7	609.4
27.5°	626.0	627.9	632.7	641.8	649.6	655.3	650.2	641.4	634.4	626.3	626.0
30°	651.3	653.2	658.9	668.5	673.8	677.5	674.1	667.4	658.9	649.6	649.6
32.5°	684.0	686.5	692.7	701.7	702.8	703.4	702.2	698.8	692.7	681.4	681.7
35°	725.4	728.2	735.2	742.5	741.4	742.5	740.9	739.7	735.2	722.3	722.3
37.5°	776.0	779.4	786.8	792.4	789.6	788.1	788.4	788.7	786.2	771.8	771.8
40°	834.9	839.4	844.8	850.6	845.9	841.6	844.5	846.8	844.5	829.8	829.8
42.5°	895.4	901.9	907.5	916.0	912.0	906.7	910.6	913.2	908.4	892.7	893.8
45°	962.8	968.9	976.2	988.9	986.2	980.5	986.2	986.7	978.5	959.9	961.9
47.5°	1032.3	1038.7	1049.7	1066.6	1065.5	1059.3	1066.6	1062.7	1052.3	1030.0	1028.6
50°	1098.2	1107.2	1124.1	1147.7	1149.9	1142.4	1152.2	1144.6	1127.2	1099.3	1098.7
52.5°	1160.1	1169.7	1196.5	1228.6	1236.8	1226.8	1240.1	1226.8	1200.7	1164.9	1161.5
55°	1225.2	1235.8	1267.7	1309.6	1325.9	1318.7	1331.1	1311.1	1273.9	1230.5	1224.6
57.5°	1301.8	1308.2	1346.2	1396.0	1423.7	1425.4	1431.0	1397.2	1352.2	1302.9	1296.1
60°	1384.9	1393.9	1435.2	1495.0	1538.6	1552.7	1546.7	1496.6	1444.2	1387.6	1378.6
62.5°	1491.3	1501.1	1550.7	1622.2	1691.2	1726.1	1703.0	1630.4	1565.6	1497.7	1485.9
65°	1579.4	1590.4	1680.0	1807.5	1933.0	2003.2	1945.1	1811.5	1694.8	1599.1	1583.3
67.5°	1515.5	1529.0	1669.5	1903.8	2216.0	2425.3	2226.8	1932.5	1704.2	1574.3	1554.9
70°	1324.6	1337.2	1501.1	1787.5	2295.8	2754.2	2343.7	1840.2	1506.4	1361.2	1341.7
72.5°	879.3	920.2	1086.1	1429.6	2049.9	2548.7	2070.2	1400.6	1007.5	877.4	849.0
75°	291.7	324.4	437.6	741.2	1373.0	1906.1	1307.1	655.8	346.7	249.5	236.0
77.5°	73.5	84.8	116.8	212.1	547.7	1085.3	493.0	173.2	94.3	65.9	58.8
80°	35.8	39.5	56.3	70.7	137.1	344.9	128.6	66.4	44.5	34.3	31.6
82.5°	19.7	20.0	31.8	40.0	50.9	89.3	52.9	38.8	25.6	20.8	20.8
85°	12.1	11.8	16.9	21.4	21.4	31.8	25.3	21.4	14.7	12.9	13.5
87.5°	4.8	4.8	6.1	6.8	5.9	8.2	6.5	7.1	5.6	5.3	5.6
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)