

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: P961326

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961326
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-SB2A-727-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8931.8 lumens
Efficiency: N/A
Efficacy: 155.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

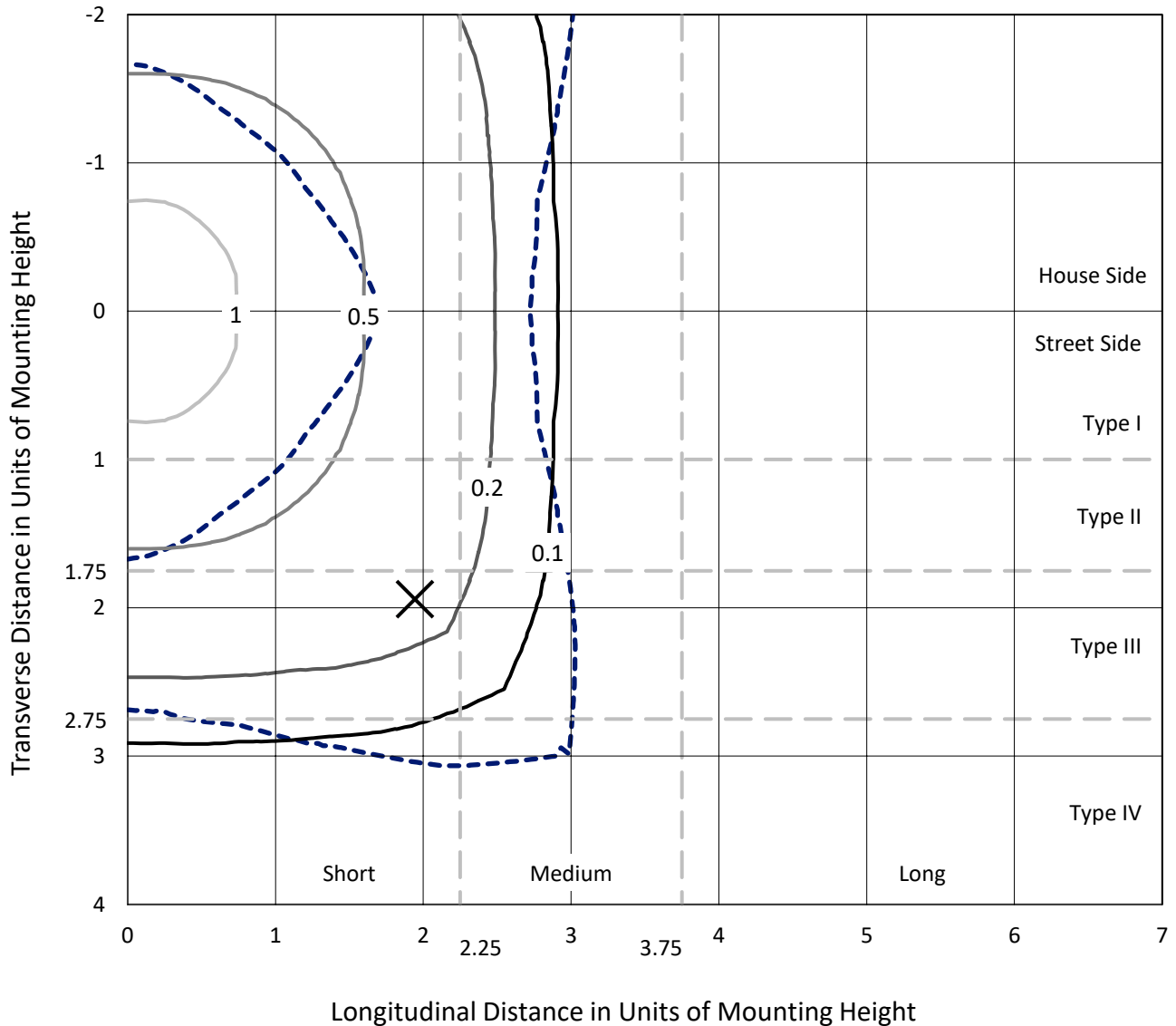
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

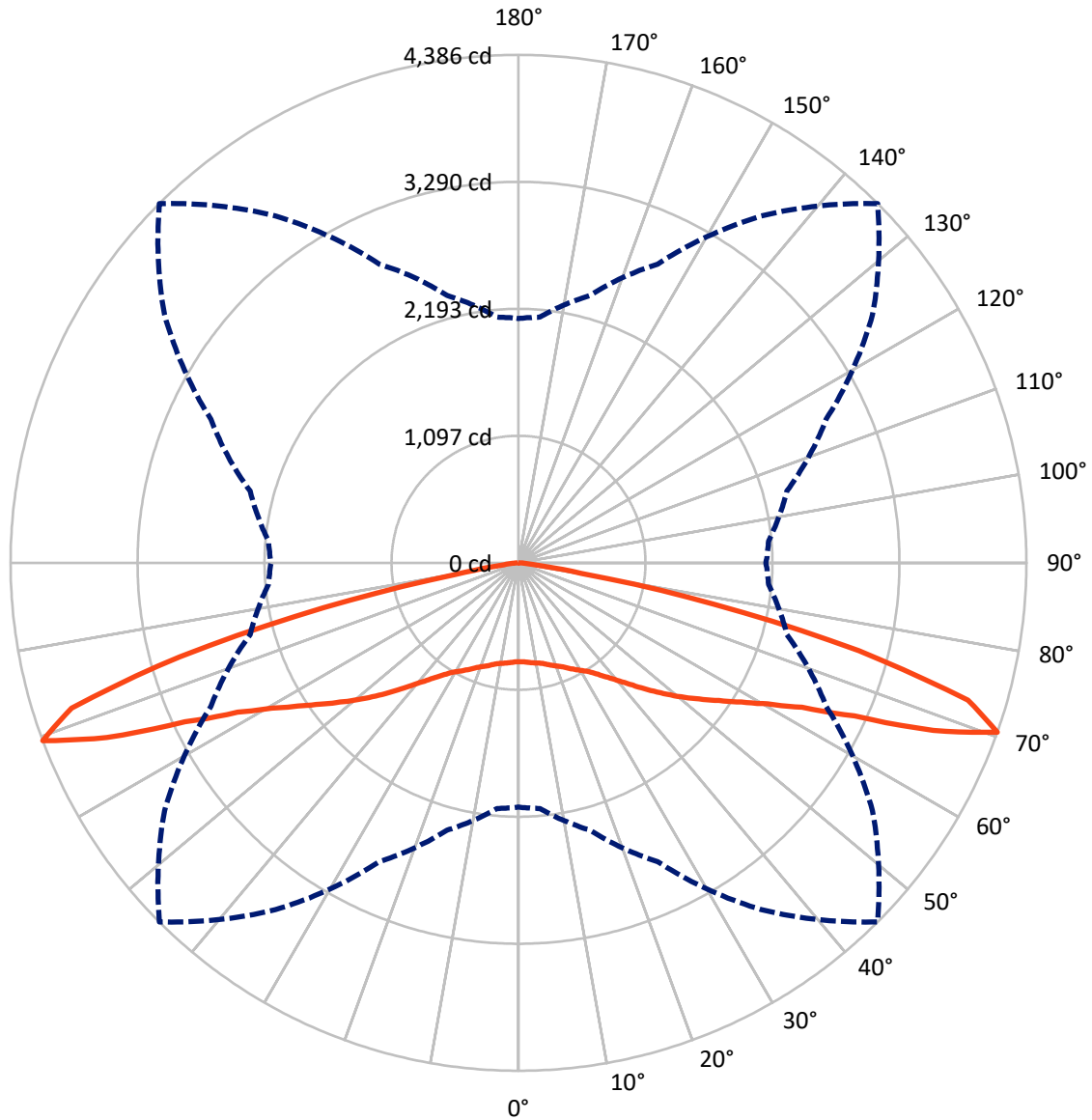
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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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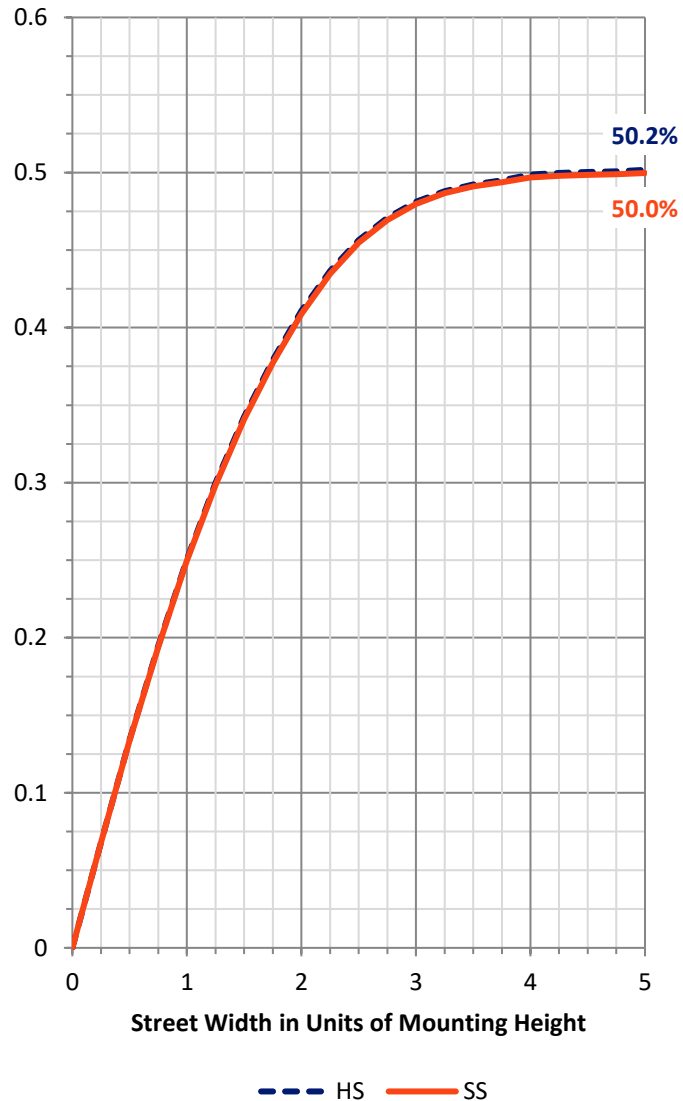
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4465.9	0.0	4465.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4465.9	0.0	4465.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	8931.8	0.0	8931.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.1	0.9
10°-20°	257.7	2.9
20°-30°	460.6	5.2
30°-40°	746.7	8.4
40°-50°	1216.2	13.6
50°-60°	1854.3	20.8
60°-70°	2758.5	30.9
70°-80°	1503.5	16.8
80°-90°	51.2	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°	8931.8	100.0
0°-180°	8931.8	100.0

Coefficient of Utilization



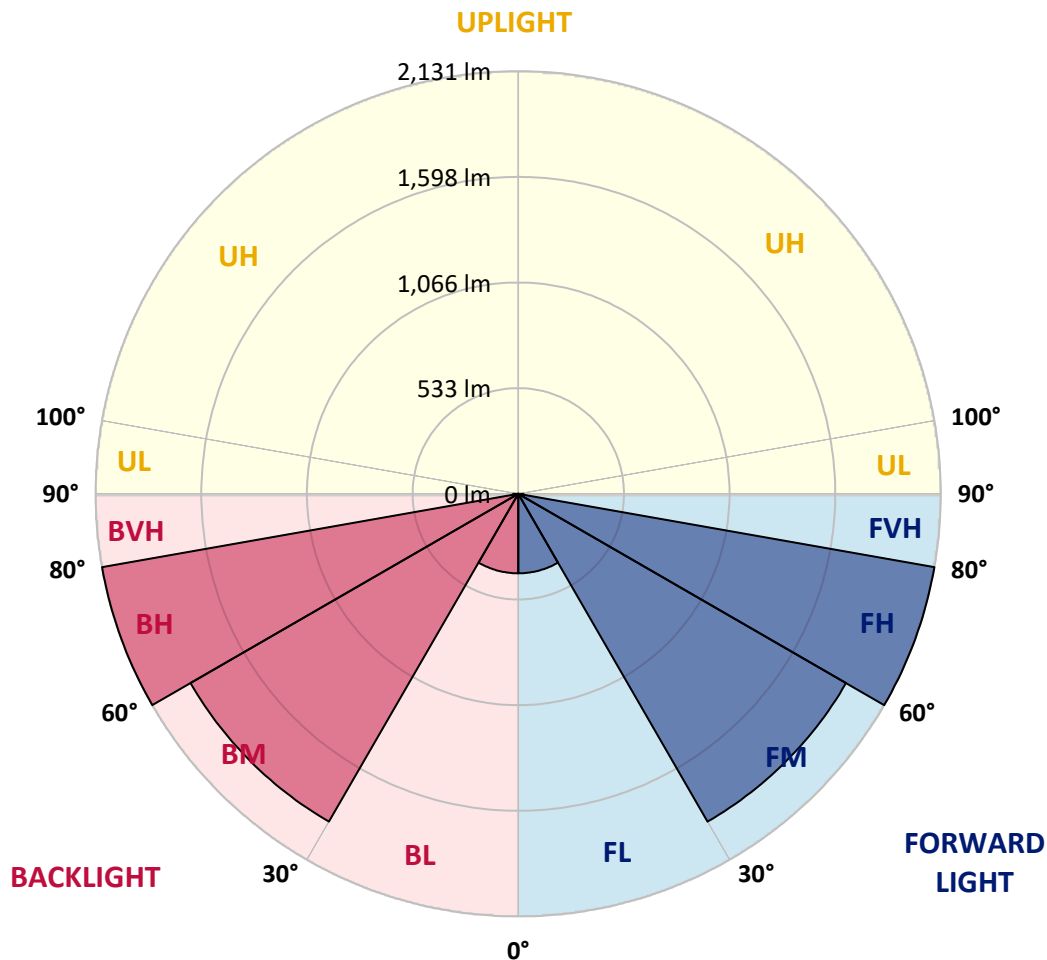
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 CATALOG NUMBER: NAV-SB2A-727-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	400.7	4.5			
FM (30°-60°)	1908.6	21.4			
FH (60°-80°)	2131.0	23.9			G2/5000
FVH (80°-90°)	25.6	0.3			G1/100
BL (0°-30°)	400.7	4.5	B1/500		
BM (30°-60°)	1908.6	21.4	B2/2500		
BH (60°-80°)	2131.0	23.9	B3/2500		G2/5000
BVH (80°-90°)	25.6	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-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	855.6	855.6	855.6	855.6	855.6	855.6	855.6	855.6	855.6	855.6	855.6
2.5°	859.6	860.5	858.7	857.8	856.9	855.6	856.0	858.2	860.1	859.6	860.1
5°	866.7	867.7	866.3	865.9	864.1	863.7	863.7	865.9	867.3	866.3	866.7
7.5°	874.8	876.2	873.9	873.5	872.6	871.8	871.2	873.5	874.8	874.8	874.8
10°	882.5	883.9	882.0	880.7	879.8	879.8	878.9	880.7	882.9	882.5	882.5
12.5°	890.5	891.4	889.7	888.8	888.8	890.1	888.8	889.7	891.4	890.5	890.1
15°	900.5	900.9	900.5	901.8	904.0	908.5	904.5	903.5	904.5	902.2	902.2
17.5°	913.9	914.8	916.6	919.7	922.8	930.9	923.7	921.5	921.5	917.0	917.0
20°	930.5	931.8	934.5	939.9	943.9	951.5	944.3	941.3	939.9	934.1	934.1
22.5°	947.9	950.2	954.3	961.4	968.6	975.8	968.6	963.2	959.2	951.5	951.1
25°	968.1	970.8	977.1	988.7	998.7	1008.9	1000.4	989.6	981.5	970.8	970.4
27.5°	996.8	1000.0	1007.6	1021.9	1034.5	1043.4	1035.4	1021.5	1010.2	997.3	996.8
30°	1037.2	1040.4	1049.3	1064.6	1073.1	1078.9	1073.5	1062.7	1049.3	1034.5	1034.5
32.5°	1089.2	1093.3	1103.1	1117.5	1119.2	1120.1	1118.4	1112.9	1103.1	1085.2	1085.6
35°	1155.1	1159.6	1170.9	1182.4	1180.7	1182.4	1179.8	1178.0	1170.9	1150.2	1150.2
37.5°	1235.8	1241.2	1252.9	1261.9	1257.4	1255.1	1255.5	1256.0	1251.9	1229.1	1229.1
40°	1329.5	1336.7	1345.2	1354.6	1347.1	1340.3	1344.8	1348.4	1344.8	1321.5	1321.5
42.5°	1426.0	1436.2	1445.2	1458.7	1452.4	1443.9	1450.2	1454.2	1446.6	1421.5	1423.3
45°	1533.1	1543.0	1554.6	1574.8	1570.4	1561.4	1570.4	1571.2	1558.2	1528.7	1531.8
47.5°	1643.9	1654.2	1671.7	1698.6	1696.8	1686.9	1698.6	1692.3	1675.8	1640.3	1638.1
50°	1748.9	1763.2	1790.1	1827.8	1831.4	1819.3	1835.0	1822.9	1795.0	1750.6	1749.7
52.5°	1847.5	1862.7	1905.4	1956.4	1969.4	1953.8	1974.9	1953.8	1912.0	1855.1	1849.7
55°	1951.1	1968.1	2018.7	2085.6	2111.6	2099.9	2119.7	2087.8	2028.7	1959.6	1950.2
57.5°	2073.1	2083.3	2143.9	2223.2	2267.2	2269.9	2278.9	2225.1	2153.3	2074.8	2064.0
60°	2205.3	2219.6	2285.5	2380.7	2450.2	2472.6	2463.2	2383.3	2299.9	2209.8	2195.4
62.5°	2374.8	2390.5	2469.4	2583.3	2693.2	2748.7	2712.0	2596.3	2493.2	2385.2	2366.3
65°	2515.1	2532.7	2675.2	2878.4	3078.4	3190.0	3097.7	2884.7	2699.0	2546.5	2521.4
67.5°	2413.4	2434.9	2658.6	3031.7	3529.1	3862.2	3546.1	3077.5	2713.8	2507.0	2476.2
70°	2109.3	2129.5	2390.5	2846.5	3656.0	4386.0	3732.1	2930.4	2399.0	2167.7	2136.7
72.5°	1400.4	1465.4	1729.6	2276.6	3264.5	4058.6	3296.7	2230.4	1604.4	1397.3	1352.0
75°	464.5	516.6	696.8	1180.2	2186.5	3035.3	2081.6	1044.4	552.0	397.3	375.8
77.5°	117.1	135.0	186.1	337.6	872.2	1728.2	785.2	275.7	150.3	105.0	93.7
80°	57.0	62.7	89.7	112.5	218.4	549.3	204.9	105.8	70.8	54.7	50.2
82.5°	31.4	31.9	50.6	63.7	81.2	142.2	84.3	61.9	40.8	33.2	33.2
85°	19.3	18.9	26.9	34.0	34.0	50.6	40.4	34.0	23.3	20.6	21.5
87.5°	7.6	7.6	9.8	10.8	9.4	13.0	10.4	11.2	8.9	8.5	8.9
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)