

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: P961393

Luminaire Tested: **NAV-SB2A-735-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961393
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-735-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9468.9 lumens
Efficiency: N/A
Efficacy: 165.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

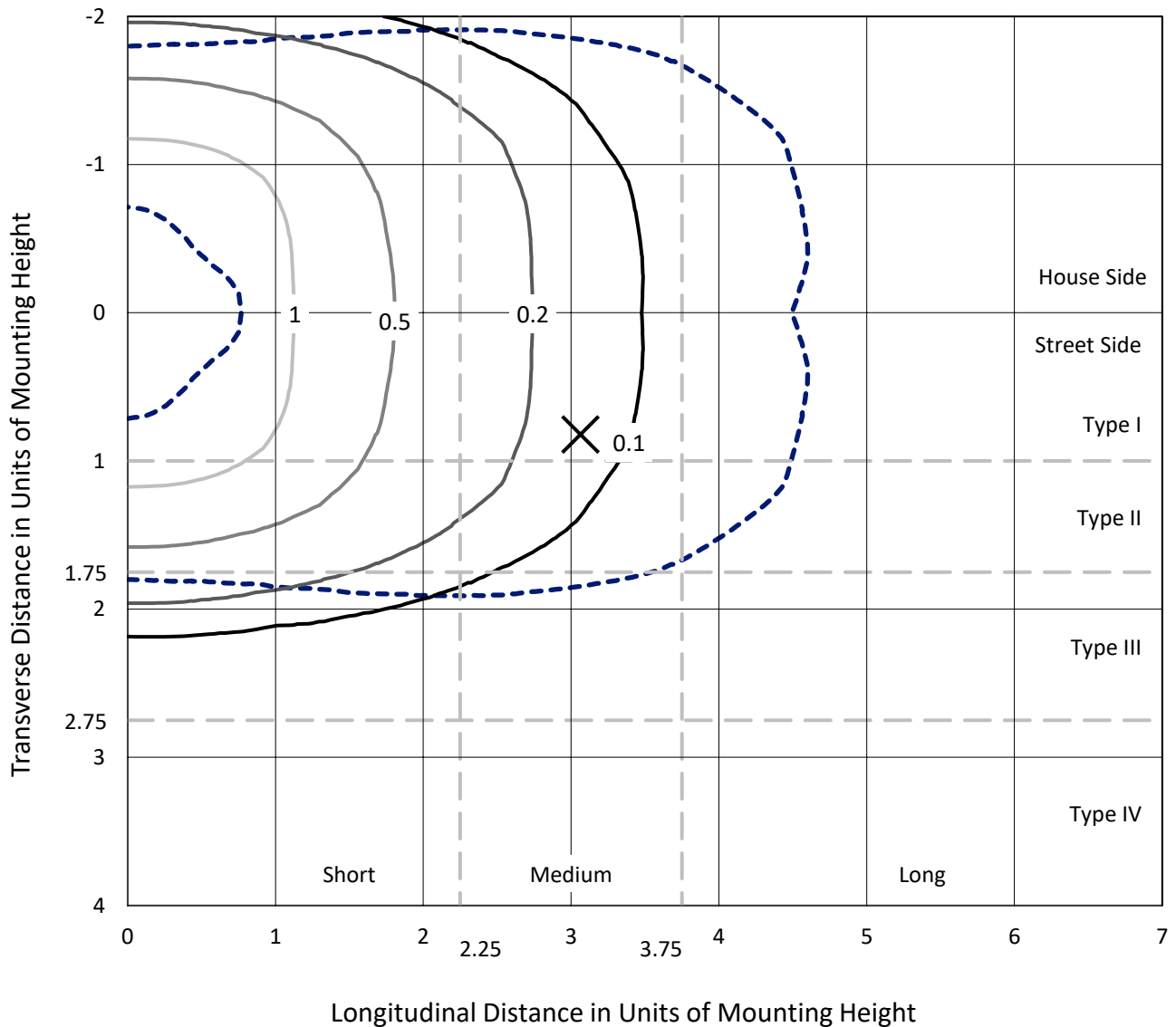
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

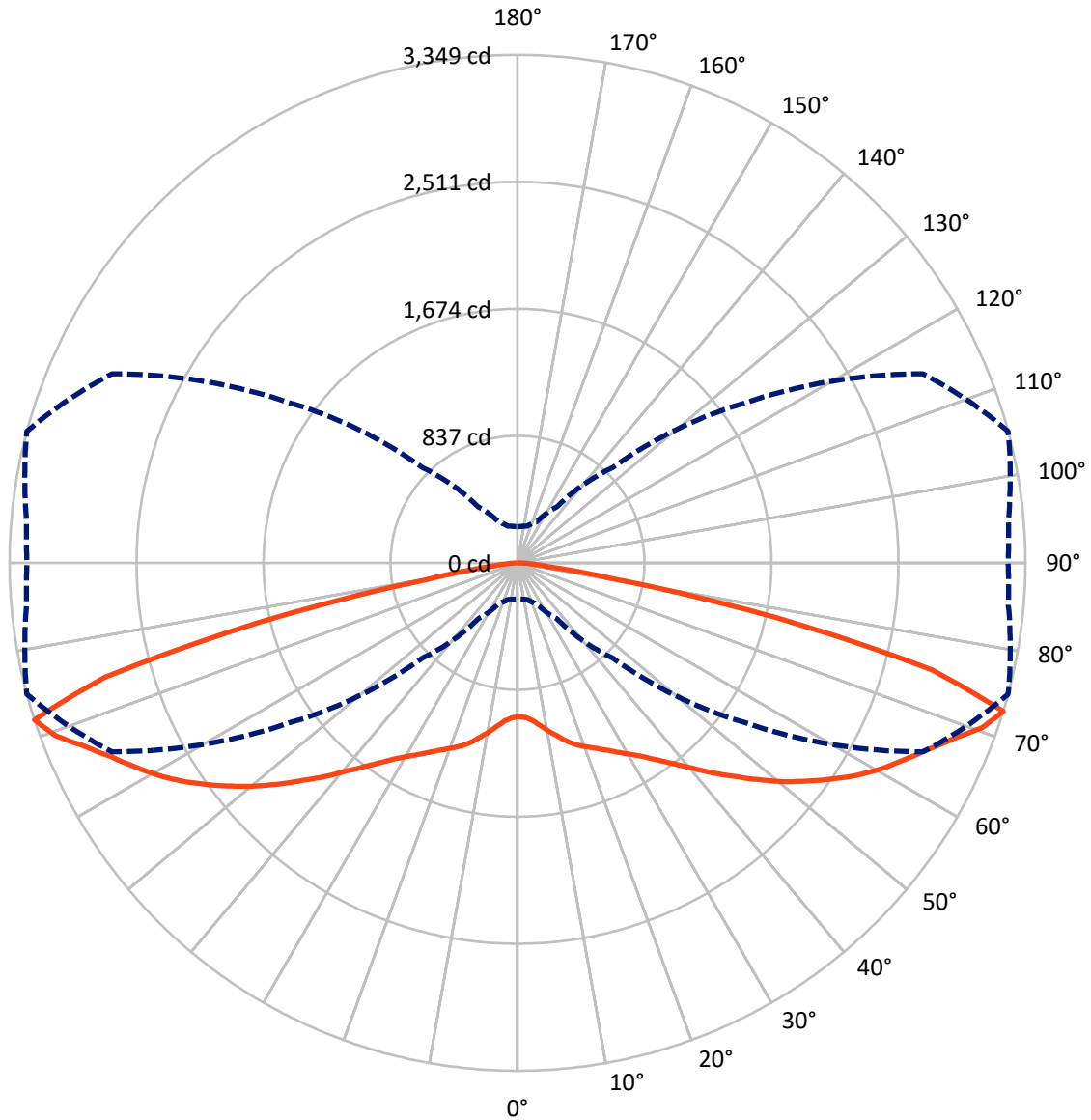
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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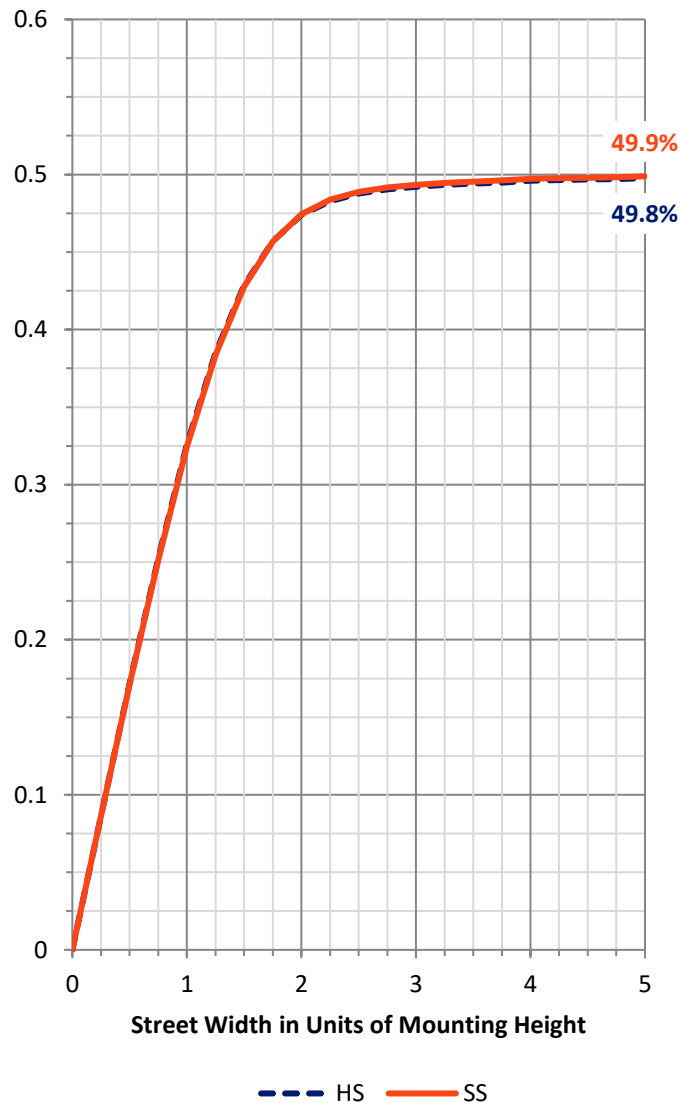
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4734.5	0.0	4734.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4734.5	0.0	4734.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9468.9	0.0	9468.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.4	1.0
10°-20°	327.7	3.5
20°-30°	633.2	6.7
30°-40°	1069.2	11.3
40°-50°	1695.7	17.9
50°-60°	2270.3	24.0
60°-70°	2160.6	22.8
70°-80°	1127.4	11.9
80°-90°	85.3	0.9
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°	9468.9	100.0
0°-180°	9468.9	100.0

Coefficient of Utilization

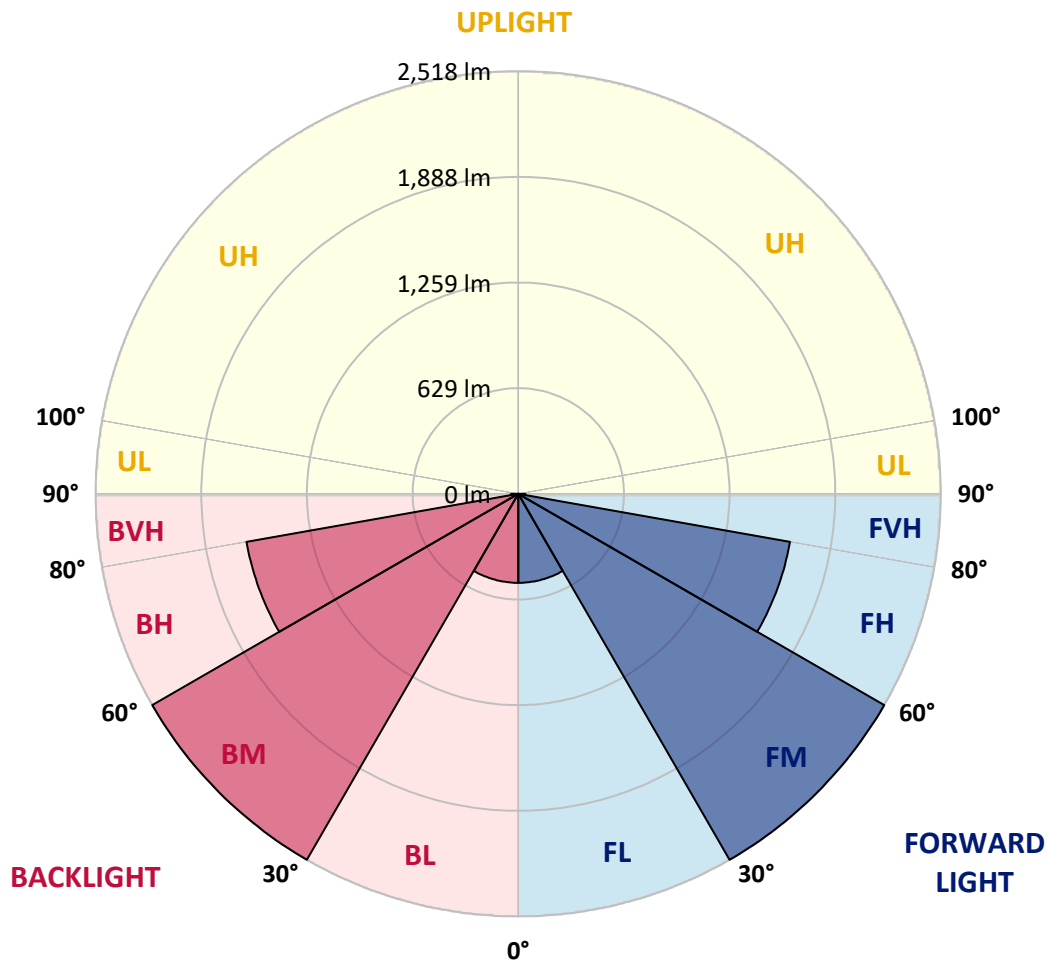


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	530.1	5.6			
FM (30°-60°)	2517.6	26.6			
FH (60°-80°)	1644.0	17.4			G1/1800
FVH (80°-90°)	42.7	0.5			G1/100
BL (0°-30°)	530.1	5.6	B2/1000		
BM (30°-60°)	2517.6	26.6	B3/5000		
BH (60°-80°)	1644.0	17.4	B3/2500		G3/2500
BVH (80°-90°)	42.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1014.3	1014.3	1014.3	1014.3	1014.3	1014.3	1014.3	1014.3	1014.3	1014.3	1014.3
2.5°	1014.3	1013.3	1014.3	1015.3	1014.7	1014.7	1017.2	1018.6	1021.5	1021.1	1020.6
5°	1007.6	1007.1	1011.0	1015.3	1018.6	1024.5	1031.7	1037.0	1043.8	1045.2	1045.2
7.5°	1004.2	1002.7	1009.4	1017.2	1027.9	1042.3	1056.4	1070.8	1082.5	1086.3	1087.3
10°	1006.6	1007.1	1016.2	1030.7	1047.7	1067.9	1087.7	1112.4	1128.8	1132.7	1136.6
12.5°	1017.7	1016.7	1032.2	1055.3	1078.6	1104.2	1127.4	1154.5	1172.4	1181.6	1185.4
15°	1038.0	1036.1	1057.8	1092.1	1126.0	1156.0	1174.8	1200.4	1221.2	1232.8	1237.2
17.5°	1062.2	1063.1	1091.6	1136.1	1180.6	1214.4	1232.4	1245.4	1261.4	1271.5	1276.3
20°	1104.7	1106.6	1138.6	1191.3	1242.0	1280.6	1295.2	1290.4	1294.7	1302.5	1308.2
22.5°	1161.7	1162.8	1198.5	1255.5	1308.7	1351.3	1360.9	1341.1	1329.0	1334.3	1338.2
25°	1227.9	1234.3	1270.1	1328.5	1383.1	1423.8	1428.1	1398.2	1368.2	1369.6	1372.1
27.5°	1308.7	1314.6	1350.7	1408.8	1464.4	1499.7	1499.2	1459.1	1415.1	1403.9	1407.3
30°	1396.3	1402.5	1439.7	1499.7	1551.4	1582.4	1575.6	1527.8	1464.8	1444.1	1446.5
32.5°	1500.2	1504.1	1541.7	1601.7	1649.5	1674.2	1660.2	1601.3	1522.8	1499.2	1505.0
35°	1625.9	1631.7	1659.7	1716.3	1758.3	1778.7	1754.9	1685.3	1597.4	1570.7	1574.6
37.5°	1769.5	1765.6	1797.5	1847.8	1882.6	1895.1	1862.7	1780.1	1682.4	1651.0	1656.8
40°	1919.3	1917.4	1952.2	2000.6	2019.4	2027.1	1979.3	1888.9	1780.5	1746.7	1757.9
42.5°	2055.2	2053.7	2100.6	2154.2	2177.0	2168.3	2107.9	2004.4	1894.2	1855.6	1865.2
45°	2164.0	2162.0	2219.5	2295.0	2339.5	2324.9	2243.7	2132.0	2009.2	1969.1	1978.4
47.5°	2247.6	2248.5	2310.5	2403.7	2481.6	2486.9	2382.5	2262.1	2135.9	2090.5	2104.0
50°	2308.0	2311.0	2377.2	2480.6	2587.0	2633.8	2524.2	2395.5	2266.9	2215.6	2231.1
52.5°	2323.1	2328.3	2408.1	2529.5	2654.6	2744.1	2668.2	2523.7	2391.2	2342.3	2354.9
55°	2243.2	2253.9	2354.9	2525.6	2696.3	2816.6	2794.9	2653.7	2516.4	2466.1	2480.1
57.5°	2060.0	2075.0	2193.0	2415.8	2687.0	2866.4	2893.0	2778.5	2641.6	2593.2	2604.4
60°	1803.3	1821.2	1934.3	2177.5	2557.5	2884.8	2962.1	2899.8	2756.6	2709.8	2719.9
62.5°	1416.0	1439.2	1574.6	1859.9	2283.8	2799.2	3021.1	3009.5	2860.2	2801.6	2808.4
65°	908.5	933.1	1075.7	1412.7	1918.8	2537.2	3039.5	3116.4	2969.4	2887.7	2897.9
67.5°	547.8	558.8	629.5	856.2	1402.5	2142.2	2883.8	3234.8	3097.0	2995.5	3003.2
70°	350.5	356.8	398.8	502.8	792.8	1563.0	2498.0	3257.0	3251.7	3106.3	3105.2
72.5°	237.9	239.7	250.9	297.8	448.6	888.2	1842.4	2948.6	3348.5	3248.8	3233.4
75°	174.0	184.7	202.5	210.7	254.8	443.8	1055.9	2071.6	2821.9	2865.5	2760.0
77.5°	129.6	130.1	154.7	164.4	181.7	236.4	446.7	1156.4	1752.0	1839.6	1640.8
80°	109.8	103.9	103.4	132.4	136.8	147.5	199.7	399.3	627.5	380.5	287.6
82.5°	91.3	85.1	76.9	103.4	93.3	90.4	86.5	162.5	199.7	98.1	83.6
85°	63.9	60.9	58.0	67.6	53.2	45.4	41.6	76.0	84.2	41.6	36.7
87.5°	27.6	28.5	29.0	29.9	22.2	16.0	16.0	21.3	21.3	16.4	12.1
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)