

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: P960804

Luminaire Tested: **NAV-SB1D-727-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960804
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-SB1D-727-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9966.1 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

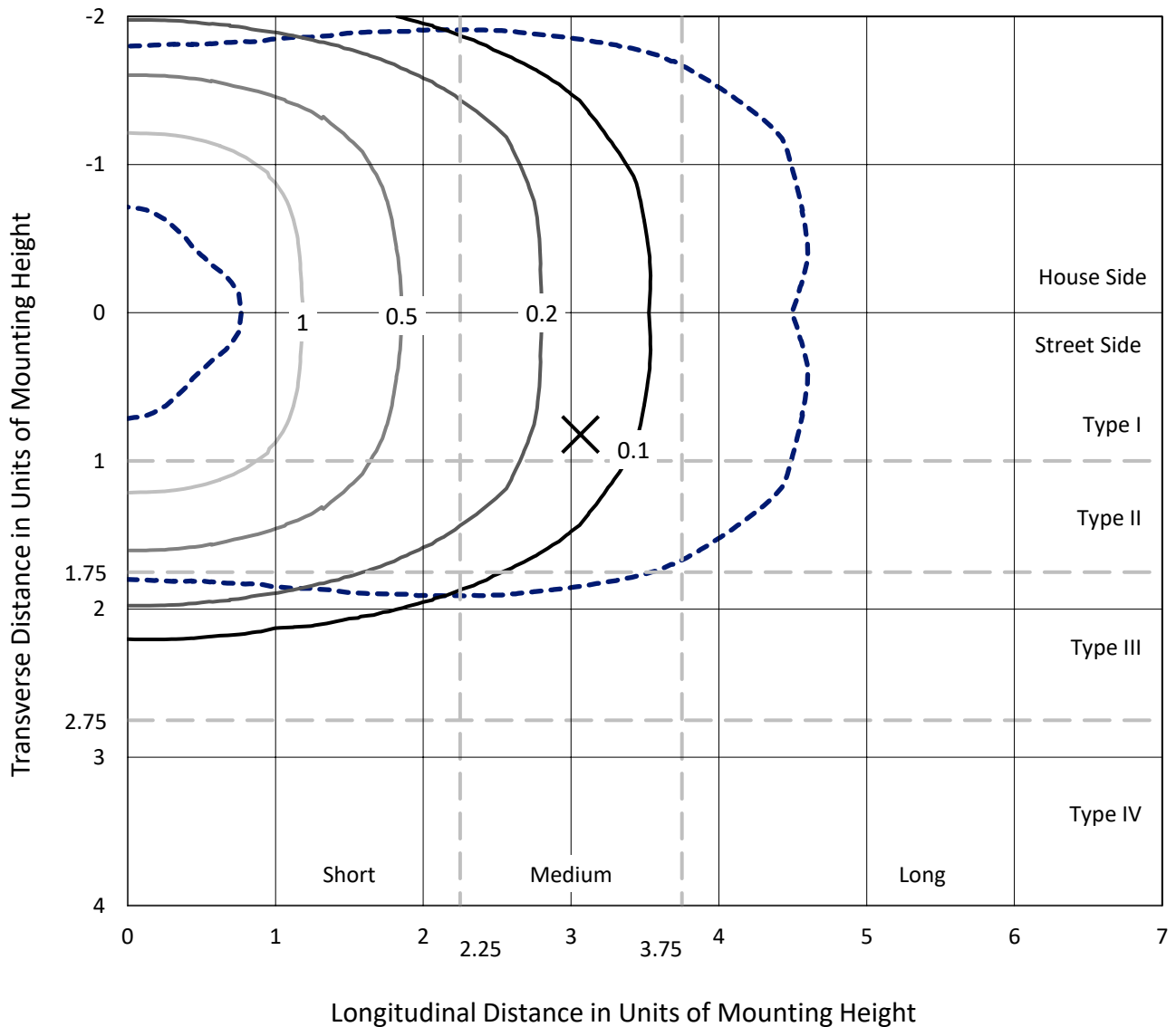
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

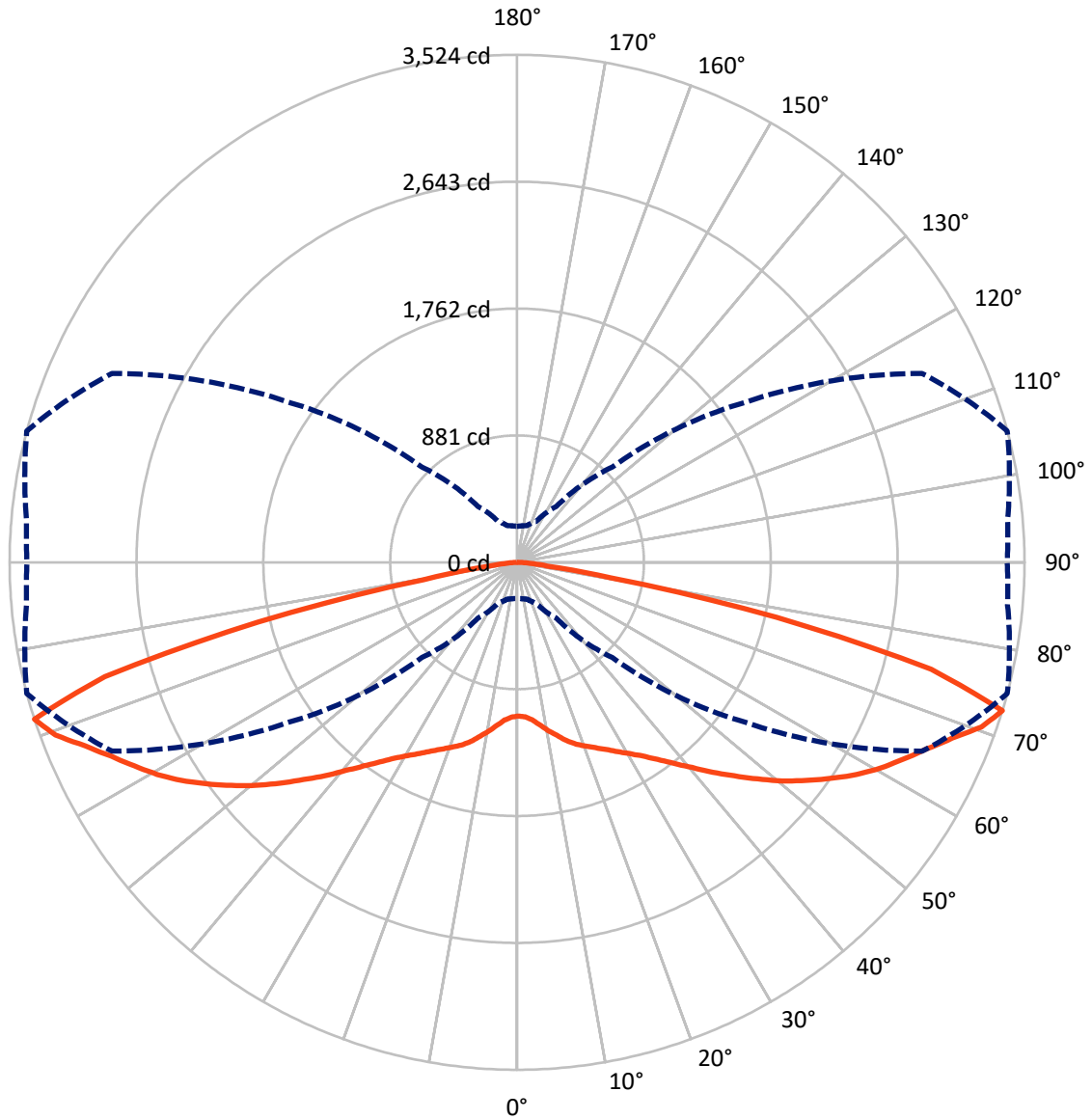
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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	4983.0	0.0	4983.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4983.0	0.0	4983.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	9966.1	0.0	9966.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.6	1.0
10°-20°	344.9	3.5
20°-30°	666.5	6.7
30°-40°	1125.4	11.3
40°-50°	1784.7	17.9
50°-60°	2389.5	24.0
60°-70°	2274.1	22.8
70°-80°	1186.6	11.9
80°-90°	89.8	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°	9966.1	100.0
0°-180°	9966.1	100.0

Coefficient of Utilization



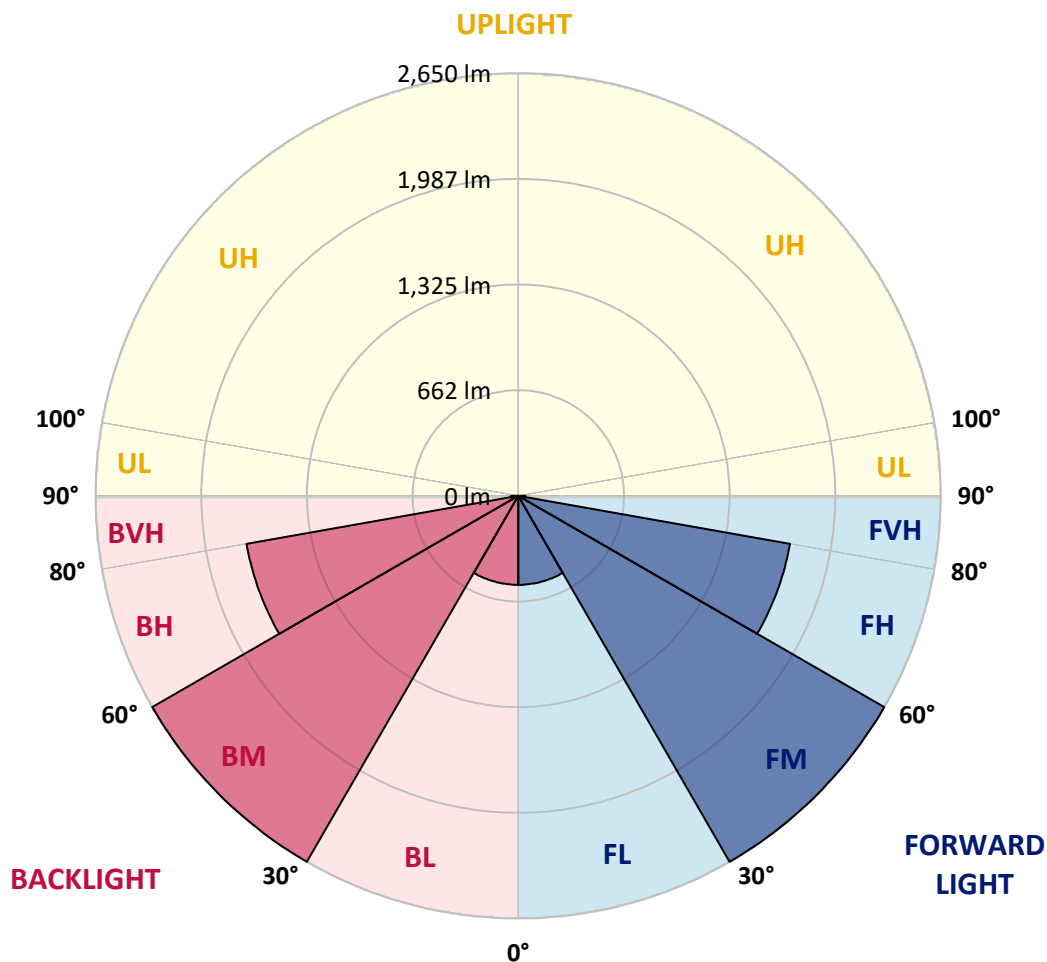
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	558.0	5.6			
FM (30°-60°)	2649.8	26.6			
FH (60°-80°)	1730.4	17.4			G1/1800
FVH (80°-90°)	44.9	0.5			G1/100
BL (0°-30°)	558.0	5.6	B2/1000		
BM (30°-60°)	2649.8	26.6	B3/5000		
BH (60°-80°)	1730.4	17.4	B3/2500		G3/2500
BVH (80°-90°)	44.9	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°	1067.5	1067.5	1067.5	1067.5	1067.5	1067.5	1067.5	1067.5	1067.5	1067.5	1067.5
2.5°	1067.5	1066.5	1067.5	1068.6	1068.0	1068.0	1070.6	1072.1	1075.2	1074.7	1074.2
5°	1060.5	1060.0	1063.9	1068.6	1072.1	1078.2	1085.9	1091.4	1098.6	1100.1	1100.1
7.5°	1056.9	1055.3	1062.4	1070.6	1081.8	1097.1	1111.8	1127.1	1139.3	1143.4	1144.4
10°	1059.4	1060.0	1069.6	1084.9	1102.7	1124.0	1144.9	1170.9	1188.2	1192.2	1196.3
12.5°	1071.1	1070.1	1086.4	1110.8	1135.2	1162.1	1186.6	1215.1	1233.9	1243.6	1247.6
15°	1092.4	1090.4	1113.4	1149.4	1185.1	1216.7	1236.5	1263.4	1285.4	1297.5	1302.2
17.5°	1118.0	1118.9	1148.9	1195.8	1242.6	1278.2	1297.0	1310.8	1327.6	1338.2	1343.4
20°	1162.7	1164.7	1198.3	1253.8	1307.2	1347.9	1363.1	1358.1	1362.6	1370.8	1376.9
22.5°	1222.7	1223.7	1261.4	1321.4	1377.4	1422.2	1432.3	1411.5	1398.8	1404.4	1408.5
25°	1292.4	1299.1	1336.7	1398.3	1455.8	1498.6	1503.2	1471.6	1440.0	1441.6	1444.1
27.5°	1377.4	1383.5	1421.7	1482.8	1541.3	1578.4	1577.9	1535.7	1489.3	1477.6	1481.2
30°	1469.5	1476.1	1515.4	1578.4	1632.8	1665.4	1658.3	1607.9	1541.8	1519.9	1522.4
32.5°	1578.9	1583.0	1622.7	1685.8	1736.1	1762.1	1747.3	1685.3	1602.9	1577.9	1584.0
35°	1711.2	1717.3	1746.8	1806.4	1850.6	1872.1	1847.0	1773.9	1681.2	1653.2	1657.3
37.5°	1862.3	1858.3	1891.8	1944.8	1981.4	1994.6	1960.5	1873.6	1770.8	1737.7	1743.8
40°	2020.1	2018.0	2054.7	2105.6	2125.4	2133.5	2083.2	1988.0	1874.0	1838.4	1850.1
42.5°	2163.1	2161.5	2210.9	2267.4	2291.3	2282.2	2218.5	2109.7	1993.6	1952.9	1963.1
45°	2277.5	2275.5	2336.1	2415.4	2462.3	2447.0	2361.5	2244.0	2114.8	2072.5	2082.2
47.5°	2365.6	2366.6	2431.7	2529.9	2611.9	2617.4	2507.6	2380.9	2248.0	2200.3	2214.5
50°	2429.2	2432.2	2501.9	2610.9	2722.8	2772.1	2656.7	2521.3	2386.0	2332.0	2348.3
52.5°	2444.9	2450.6	2534.5	2662.2	2794.0	2888.1	2808.3	2656.2	2516.7	2465.3	2478.6
55°	2361.0	2372.3	2478.6	2658.1	2837.8	2964.5	2941.6	2793.0	2648.5	2595.6	2610.4
57.5°	2168.2	2184.0	2308.1	2542.7	2828.2	3016.9	3044.9	2924.3	2780.3	2729.4	2741.2
60°	1898.0	1916.7	2035.9	2291.8	2691.8	3036.3	3117.6	3052.0	2901.4	2852.1	2862.7
62.5°	1490.4	1514.8	1657.3	1957.5	2403.7	2946.2	3179.8	3167.6	3010.3	2948.7	2955.9
65°	956.1	982.1	1132.2	1486.9	2019.6	2670.4	3199.0	3280.0	3125.3	3039.3	3050.0
67.5°	576.6	588.2	662.6	901.2	1476.1	2254.7	3035.2	3404.6	3259.6	3152.8	3160.9
70°	368.9	375.6	419.8	529.2	834.5	1645.1	2629.1	3428.0	3422.5	3269.3	3268.3
72.5°	250.3	252.4	264.0	313.4	472.2	934.7	1939.2	3103.4	3524.3	3419.4	3403.1
75°	183.2	194.3	213.2	221.8	268.1	467.1	1111.3	2180.4	2970.1	3015.9	2905.0
77.5°	136.3	136.8	162.9	173.0	191.4	248.9	470.2	1217.2	1844.1	1936.1	1727.0
80°	115.5	109.4	108.9	139.4	144.0	155.2	210.1	420.4	660.5	400.5	302.8
82.5°	96.1	89.6	80.9	108.9	98.2	95.1	91.1	171.0	210.1	103.3	88.0
85°	67.1	64.2	61.1	71.2	56.0	47.9	43.8	79.8	88.6	43.8	38.6
87.5°	29.0	30.0	30.5	31.6	23.4	16.8	16.8	22.3	22.3	17.3	12.7
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)