

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: P960773

Luminaire Tested: **NAV-SB1D-722-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960773
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-722-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 900mA LIGHTSQUARE WITH 26 LEDS AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8875.5 lumens
Efficiency: N/A
Efficacy: 111.5 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

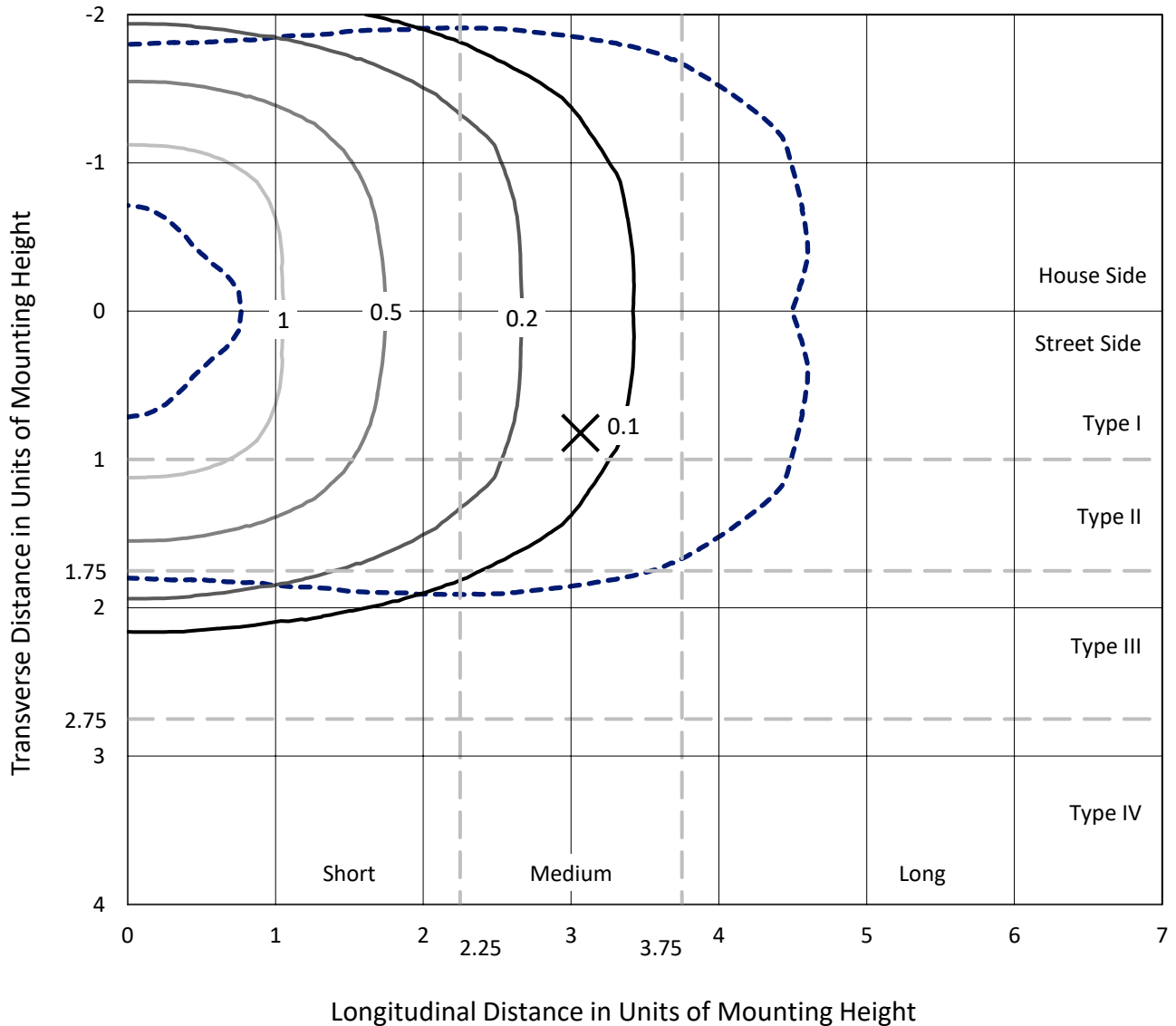
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

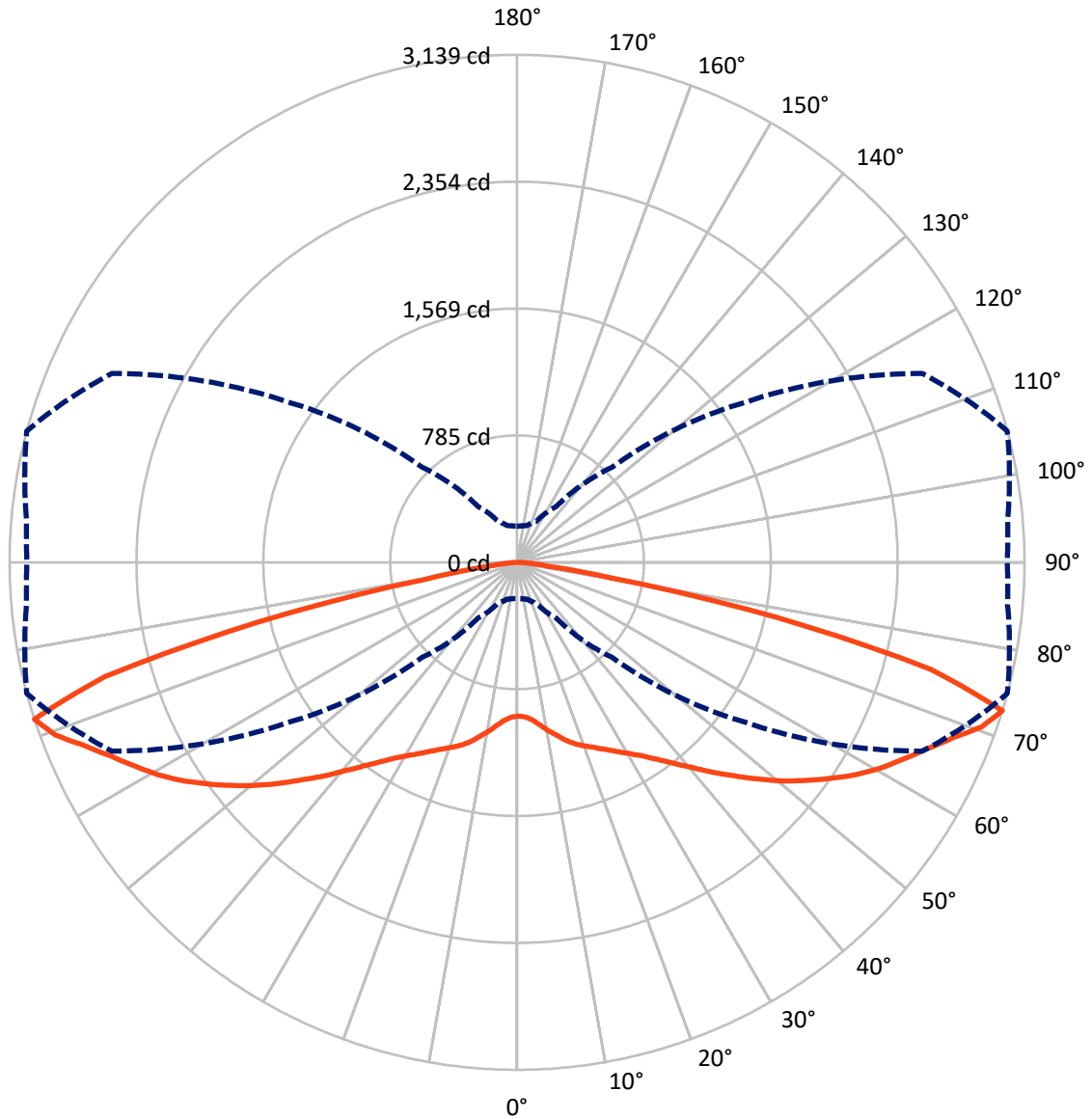
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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	4437.7	0.0	4437.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4437.7	0.0	4437.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	8875.5	0.0	8875.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.1	1.0
10°-20°	307.2	3.5
20°-30°	593.5	6.7
30°-40°	1002.2	11.3
40°-50°	1589.4	17.9
50°-60°	2128.0	24.0
60°-70°	2025.2	22.8
70°-80°	1056.8	11.9
80°-90°	80.0	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°	8875.5	100.0
0°-180°	8875.5	100.0

Coefficient of Utilization



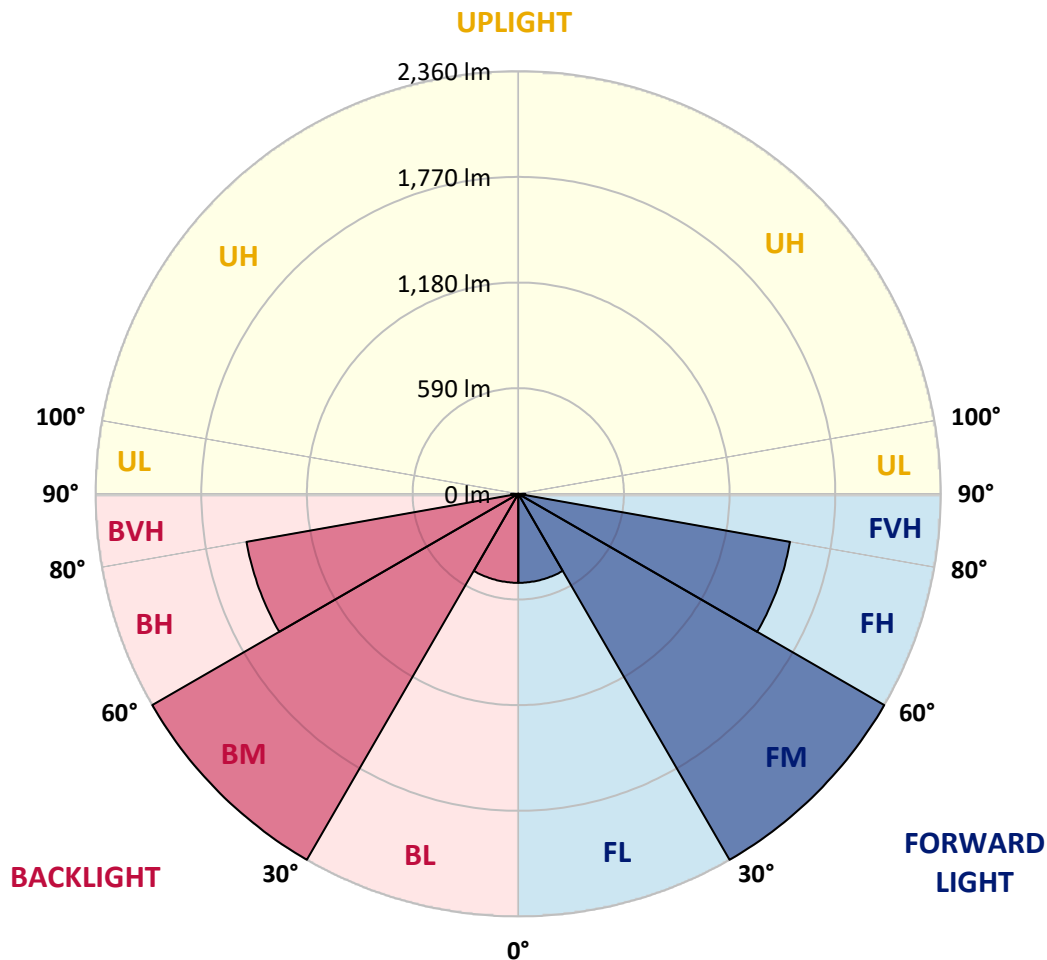
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	496.9	5.6			
FM (30°-60°)	2359.8	26.6			
FH (60°-80°)	1541.0	17.4			G1/1800
FVH (80°-90°)	40.0	0.5			G1/100
BL (0°-30°)	496.9	5.6	B1/500		
BM (30°-60°)	2359.8	26.6	B2/2500		
BH (60°-80°)	1541.0	17.4	B3/2500		G3/2500
BVH (80°-90°)	40.0	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°	950.7	950.7	950.7	950.7	950.7	950.7	950.7	950.7	950.7	950.7	950.7
2.5°	950.7	949.8	950.7	951.6	951.2	951.2	953.5	954.8	957.6	957.0	956.6
5°	944.3	943.9	947.5	951.6	954.8	960.2	967.0	972.0	978.4	979.7	979.7
7.5°	941.2	939.8	946.2	953.5	963.4	977.0	990.1	1003.8	1014.6	1018.2	1019.2
10°	943.5	943.9	952.5	966.2	982.0	1001.0	1019.6	1042.7	1058.1	1061.7	1065.4
12.5°	953.9	952.9	967.5	989.2	1011.0	1035.0	1056.8	1082.1	1098.9	1107.5	1111.1
15°	972.9	971.1	991.5	1023.7	1055.4	1083.5	1101.2	1125.1	1144.7	1155.6	1159.6
17.5°	995.6	996.5	1023.3	1064.9	1106.6	1138.4	1155.1	1167.4	1182.2	1191.8	1196.4
20°	1035.5	1037.3	1067.2	1116.5	1164.2	1200.4	1214.0	1209.5	1213.6	1220.8	1226.2
22.5°	1089.0	1089.9	1123.4	1176.8	1226.7	1266.6	1275.6	1257.1	1245.7	1250.7	1254.3
25°	1151.0	1156.9	1190.4	1245.3	1296.5	1334.6	1338.6	1310.6	1282.5	1283.8	1286.1
27.5°	1226.7	1232.2	1266.1	1320.5	1372.6	1405.7	1405.3	1367.7	1326.4	1316.0	1319.2
30°	1308.7	1314.6	1349.5	1405.7	1454.2	1483.2	1476.8	1431.9	1373.1	1353.6	1355.9
32.5°	1406.1	1409.8	1445.1	1501.3	1546.2	1569.3	1556.2	1500.8	1427.4	1405.3	1410.7
35°	1524.0	1529.4	1555.6	1608.7	1648.1	1667.2	1644.9	1579.7	1497.2	1472.3	1475.9
37.5°	1658.6	1655.0	1684.8	1731.9	1764.6	1776.3	1746.0	1668.5	1577.0	1547.5	1553.0
40°	1799.1	1797.2	1829.8	1875.1	1892.9	1900.0	1855.2	1770.5	1669.0	1637.2	1647.7
42.5°	1926.4	1925.1	1968.9	2019.2	2040.6	2032.4	1975.8	1878.8	1775.5	1739.2	1748.2
45°	2028.4	2026.5	2080.4	2151.2	2192.8	2179.3	2103.1	1998.4	1883.3	1845.7	1854.3
47.5°	2106.7	2107.6	2165.6	2253.1	2326.0	2331.1	2233.2	2120.3	2002.0	1959.5	1972.1
50°	2163.4	2166.1	2228.1	2325.1	2424.8	2468.8	2365.9	2245.4	2124.8	2076.9	2091.3
52.5°	2177.4	2182.4	2257.2	2370.9	2488.3	2572.1	2501.0	2365.5	2241.3	2195.5	2207.3
55°	2102.7	2112.6	2207.3	2367.3	2527.2	2640.1	2619.7	2487.4	2358.7	2311.6	2324.7
57.5°	1930.9	1944.9	2055.5	2264.4	2518.6	2686.7	2711.6	2604.3	2476.1	2430.7	2441.1
60°	1690.2	1707.0	1813.1	2041.0	2397.2	2704.0	2776.5	2718.0	2583.9	2540.0	2549.5
62.5°	1327.3	1349.0	1475.9	1743.3	2140.7	2623.8	2831.8	2820.9	2680.9	2626.0	2632.4
65°	851.5	874.6	1008.3	1324.1	1798.6	2378.2	2849.0	2921.0	2783.3	2706.7	2716.2
67.5°	513.4	523.9	590.0	802.6	1314.6	2008.0	2703.0	3032.1	2902.9	2807.8	2815.0
70°	328.5	334.5	373.8	471.3	743.2	1465.0	2341.5	3053.0	3047.9	2911.5	2910.6
72.5°	222.9	224.8	235.2	279.1	420.6	832.4	1727.0	2763.8	3138.5	3045.2	3030.7
75°	163.2	173.1	189.8	197.6	238.8	416.0	989.7	1941.8	2645.1	2685.8	2587.1
77.5°	121.5	121.9	145.0	154.1	170.4	221.6	418.7	1083.9	1642.3	1724.3	1538.0
80°	102.9	97.5	97.0	124.1	128.2	138.2	187.2	374.3	588.2	356.6	269.7
82.5°	85.7	79.7	72.1	97.0	87.4	84.8	81.1	152.2	187.2	91.9	78.4
85°	59.9	57.1	54.4	63.4	49.8	42.6	38.9	71.1	78.8	38.9	34.4
87.5°	25.8	26.8	27.2	28.1	20.8	15.0	15.0	20.0	20.0	15.4	11.4
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)