

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: P960800

Luminaire Tested: **NAV-SB1D-727-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1D-727-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10141.3 lumens
Efficiency: N/A
Efficacy: 127.4 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

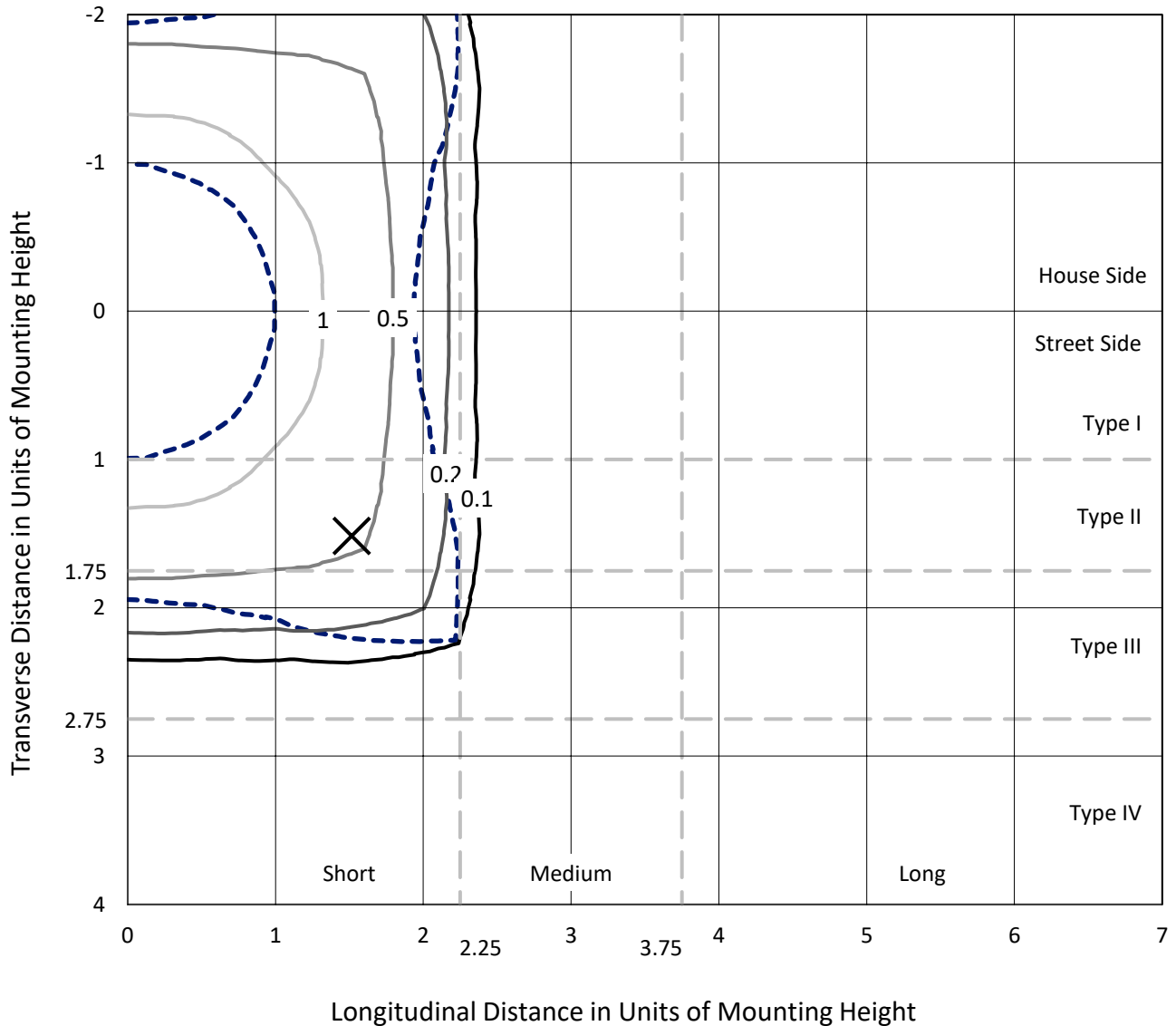
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

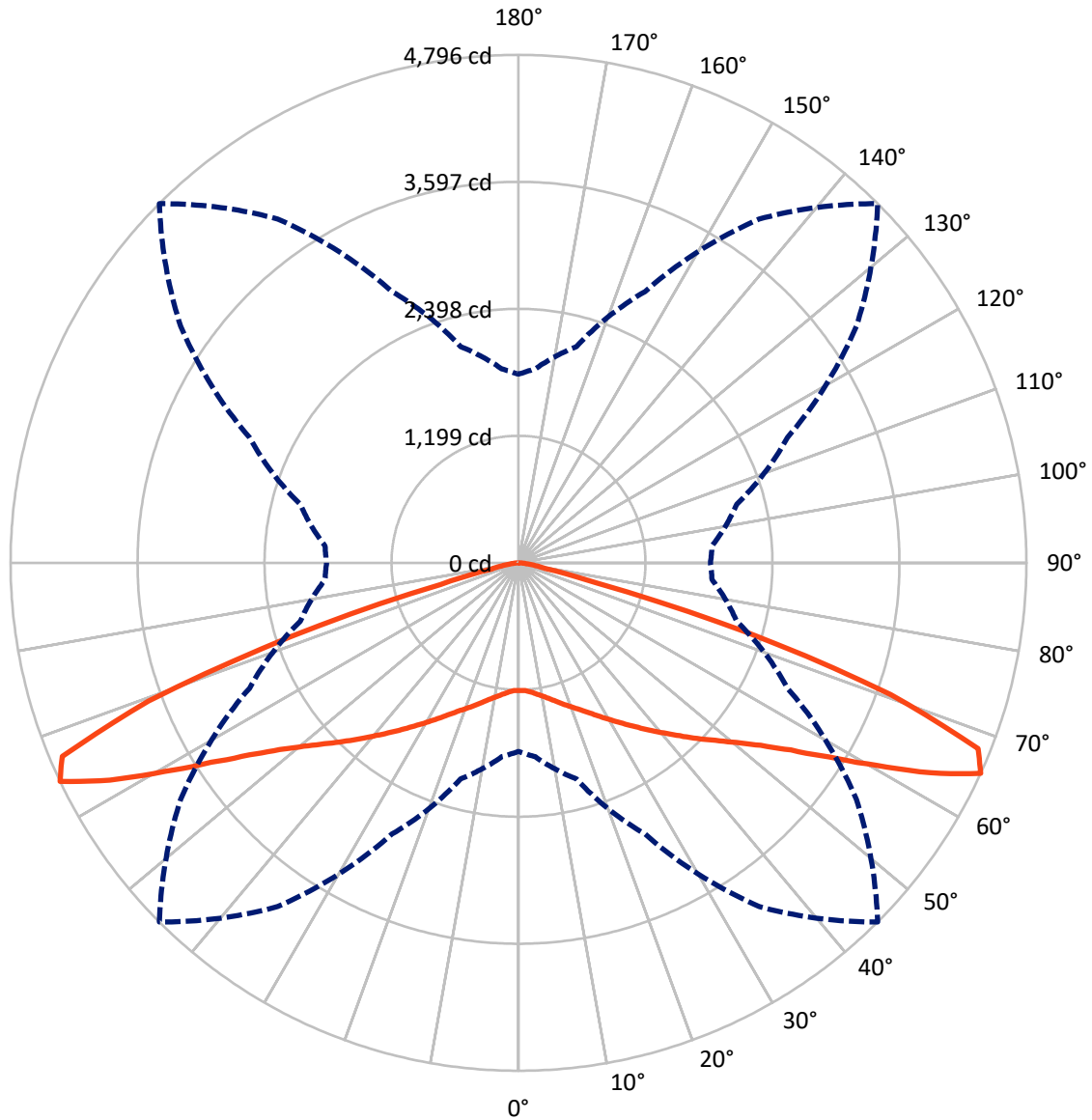
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5070.7	0.0	5070.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5070.7	0.0	5070.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	10141.3	0.0	10141.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.1	1.2
10°-20°	388.7	3.8
20°-30°	733.9	7.2
30°-40°	1201.7	11.8
40°-50°	1863.2	18.4
50°-60°	2752.3	27.1
60°-70°	2620.0	25.8
70°-80°	422.8	4.2
80°-90°	39.8	0.4
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°	10141.3	100.0
0°-180°	10141.3	100.0

Coefficient of Utilization



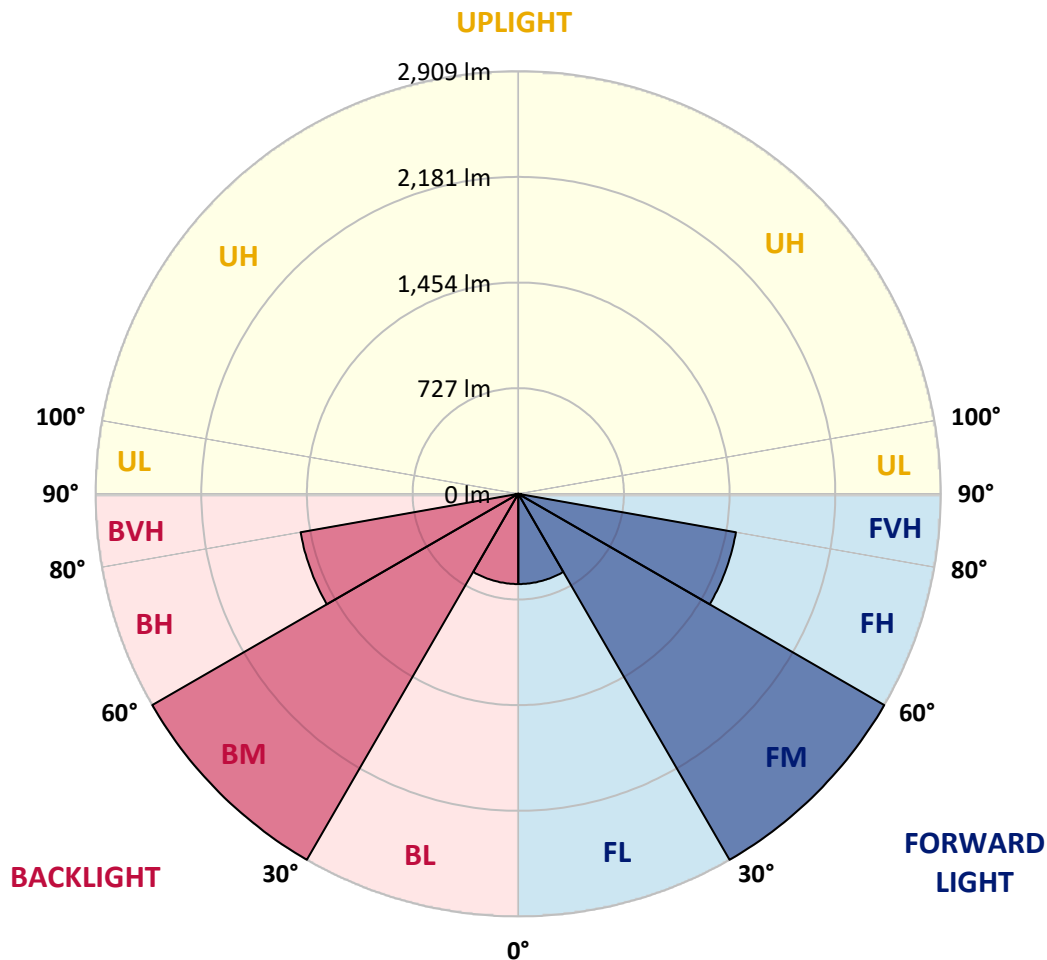
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	620.8	6.1			
FM (30°-60°)	2908.6	28.7			
FH (60°-80°)	1521.4	15.0			G1/1800
FVH (80°-90°)	19.9	0.2			G1/100
BL (0°-30°)	620.8	6.1	B2/1000		
BM (30°-60°)	2908.6	28.7	B3/5000		
BH (60°-80°)	1521.4	15.0	B3/2500		G1/1800
BVH (80°-90°)	19.9	0.2			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°	1206.9	1206.9	1206.9	1206.9	1206.9	1206.9	1206.9	1206.9	1206.9	1206.9	1206.9
2.5°	1215.0	1211.0	1214.0	1211.6	1209.5	1207.4	1208.5	1212.0	1213.5	1214.0	1214.0
5°	1231.3	1227.7	1229.3	1229.3	1225.8	1224.8	1225.3	1227.7	1230.8	1230.8	1230.8
7.5°	1257.8	1254.3	1257.8	1255.7	1252.8	1251.7	1251.2	1253.3	1257.8	1257.8	1256.2
10°	1289.9	1285.8	1287.8	1286.8	1283.2	1281.8	1281.2	1284.2	1288.3	1287.8	1286.8
12.5°	1325.0	1320.4	1323.0	1319.9	1318.9	1317.3	1317.3	1316.8	1319.4	1317.3	1318.4
15°	1364.2	1361.1	1362.1	1360.1	1361.6	1360.6	1356.5	1354.4	1355.5	1352.5	1353.0
17.5°	1410.4	1403.3	1406.9	1405.9	1405.9	1407.9	1401.3	1398.7	1400.8	1397.7	1400.3
20°	1463.9	1456.7	1458.3	1456.2	1453.7	1455.7	1447.6	1449.7	1451.2	1449.1	1453.7
22.5°	1522.4	1513.2	1512.7	1513.7	1508.2	1508.7	1503.1	1508.2	1511.2	1505.6	1511.2
25°	1582.4	1572.8	1579.4	1576.9	1569.7	1571.2	1567.1	1572.2	1574.8	1567.6	1575.8
27.5°	1646.0	1639.4	1645.5	1647.1	1638.4	1644.5	1638.4	1643.0	1645.5	1634.9	1643.0
30°	1720.4	1713.7	1719.3	1723.3	1713.2	1722.8	1717.8	1720.9	1721.4	1708.6	1716.3
32.5°	1801.2	1791.1	1805.3	1807.3	1796.1	1807.8	1801.2	1805.3	1807.8	1790.6	1802.3
35°	1899.9	1887.2	1903.5	1901.0	1891.3	1901.0	1894.8	1901.0	1907.0	1886.2	1898.9
37.5°	2006.2	1993.0	2010.3	2005.7	1996.6	2003.3	1999.7	2003.8	2013.4	1991.1	2004.8
40°	2123.3	2107.0	2130.5	2122.3	2113.7	2112.6	2114.7	2117.2	2130.0	2104.9	2113.1
42.5°	2248.4	2231.2	2266.3	2253.6	2241.4	2233.2	2239.8	2245.0	2257.2	2229.2	2243.9
45°	2391.4	2371.6	2417.4	2402.2	2382.8	2366.0	2376.7	2384.4	2402.2	2368.6	2385.9
47.5°	2549.2	2526.8	2575.6	2571.1	2539.5	2502.8	2527.3	2549.2	2562.4	2521.7	2535.4
50°	2703.3	2686.0	2750.2	2755.8	2717.1	2665.7	2699.8	2732.9	2736.4	2683.0	2689.6
52.5°	2847.9	2830.5	2923.7	2958.8	2924.2	2863.1	2899.2	2932.8	2905.9	2836.7	2838.7
55°	2963.4	2949.1	3067.7	3158.2	3169.9	3119.6	3140.9	3139.9	3051.4	2945.0	2948.6
57.5°	2991.4	2989.3	3139.0	3330.7	3452.8	3459.0	3416.7	3308.9	3118.0	2975.1	2965.9
60°	2864.2	2876.9	3082.5	3420.8	3746.5	3881.8	3699.1	3391.3	3042.2	2843.8	2820.4
62.5°	2483.6	2517.1	2764.9	3310.9	3983.6	4368.2	3925.5	3266.2	2730.8	2471.9	2456.6
65°	1779.8	1838.3	2112.1	2825.5	3962.1	4795.7	3893.0	2802.6	2132.5	1833.8	1811.9
67.5°	807.5	867.0	1099.5	1934.6	3444.2	4679.6	3436.1	1954.9	1154.6	870.1	857.4
70°	292.5	302.8	377.5	774.4	2201.2	3728.6	2295.3	780.0	401.5	322.6	318.6
72.5°	177.1	178.6	194.3	277.3	764.8	2263.7	797.3	286.5	198.4	176.1	179.1
75°	112.4	111.4	138.4	169.4	271.2	763.7	284.4	169.4	137.9	125.7	126.7
77.5°	80.9	83.4	99.2	126.7	171.0	259.0	167.9	121.1	99.2	81.4	82.9
80°	60.6	62.1	72.3	98.7	120.1	161.3	106.8	89.6	74.8	50.8	52.4
82.5°	43.8	43.8	47.4	71.8	73.3	87.0	58.0	63.1	49.4	36.1	36.1
85°	25.9	25.4	29.5	42.7	38.1	32.1	26.4	38.6	31.1	22.3	21.8
87.5°	9.1	9.6	9.1	12.2	10.1	8.6	8.1	10.7	8.6	7.6	7.1
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)