

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: P960866

Luminaire Tested: **NAV-SB1D-735-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960866
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-735-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10744 lumens
Efficiency: N/A
Efficacy: 135.0 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



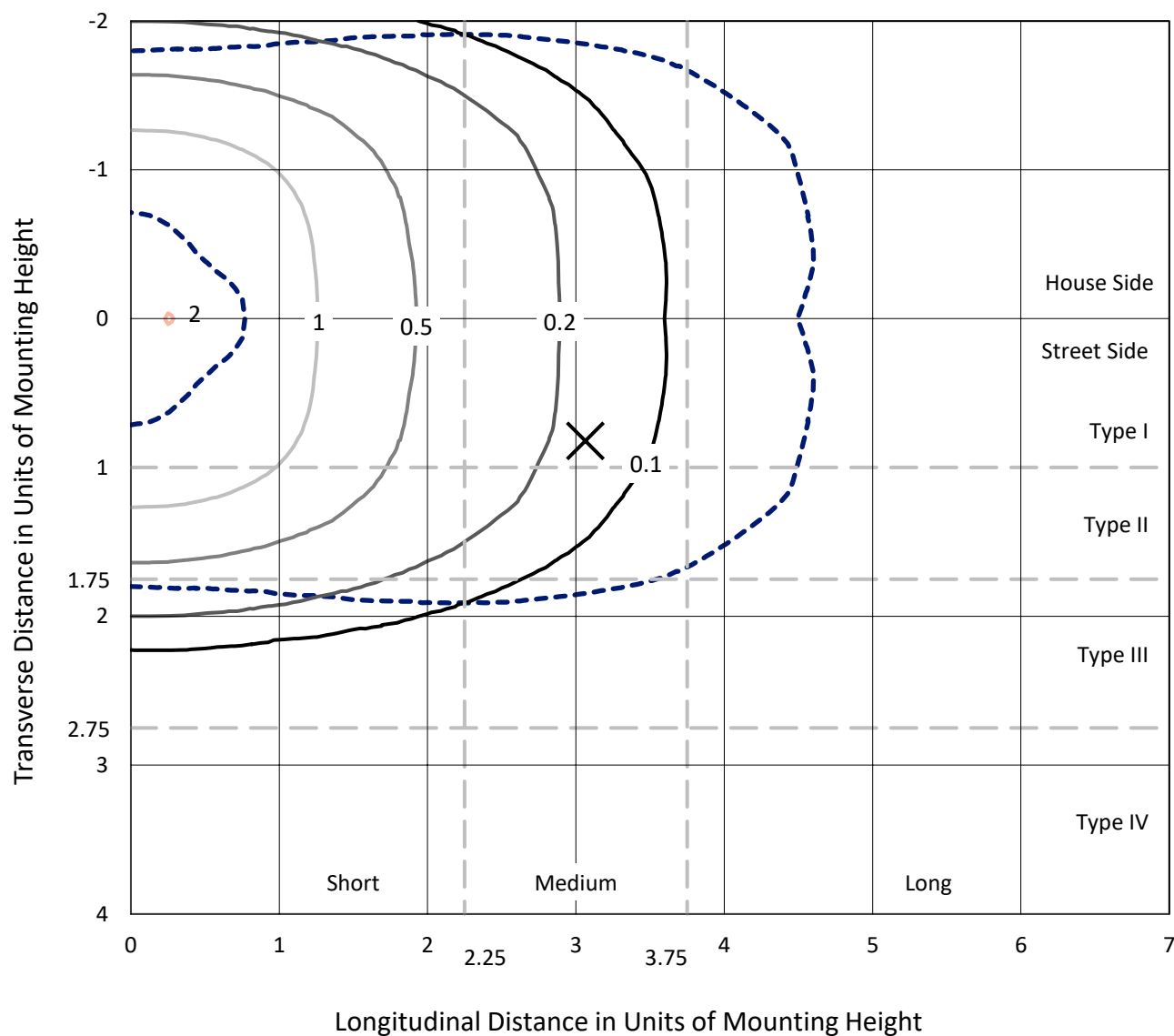
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

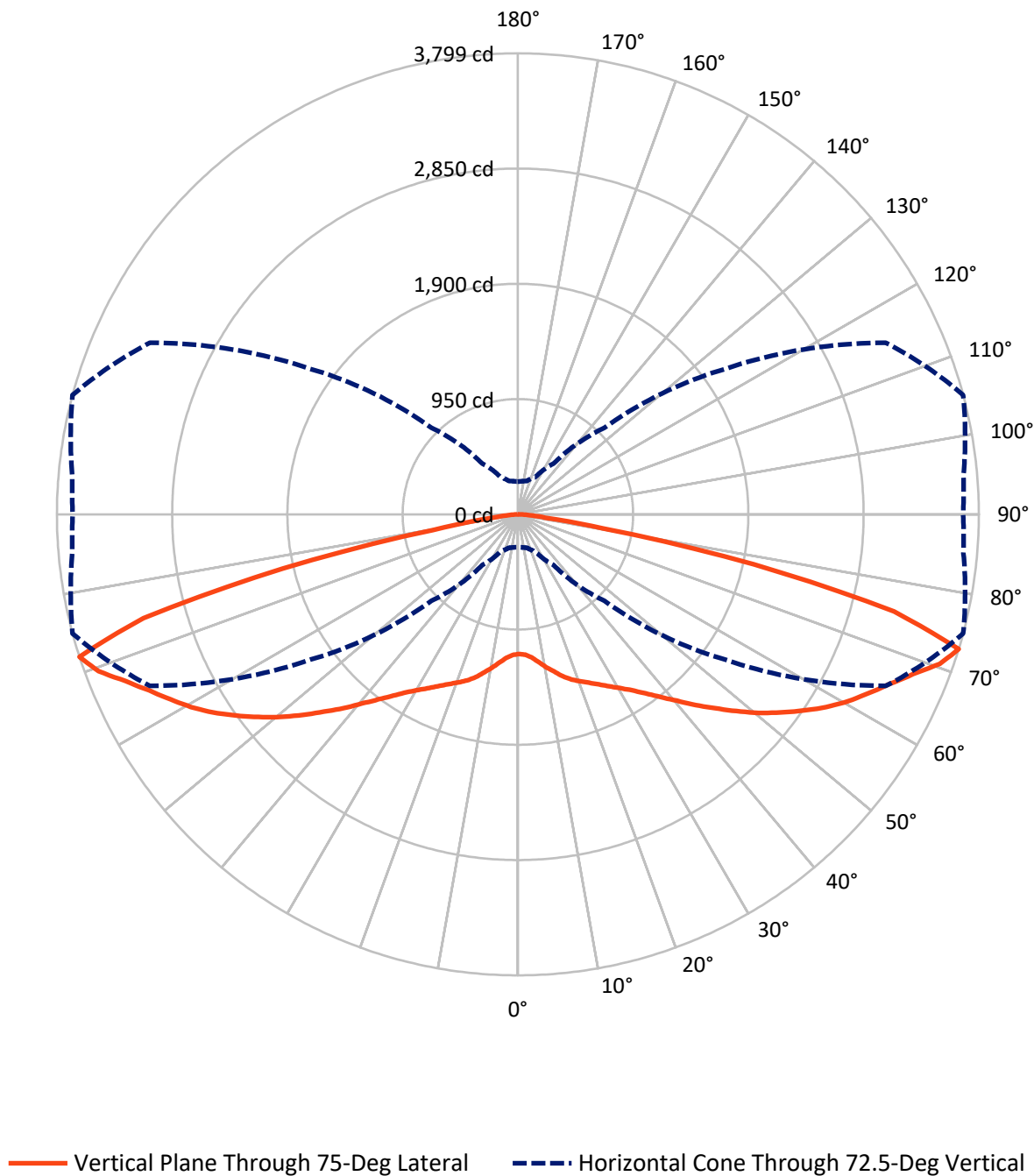


Based on 25 foot mounting height. Maximum calculated value = 2 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5372.0	0.0	5372.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5372.0	0.0	5372.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10744.0	0.0	10744.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.7	1.0
10°-20°	371.8	3.5
20°-30°	718.5	6.7
30°-40°	1213.2	11.3
40°-50°	1924.0	17.9
50°-60°	2576.1	24.0
60°-70°	2451.6	22.8
70°-80°	1279.3	11.9
80°-90°	96.8	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°	10744.0	100.0
0°-180°	10744.0	100.0

Coefficient of Utilization



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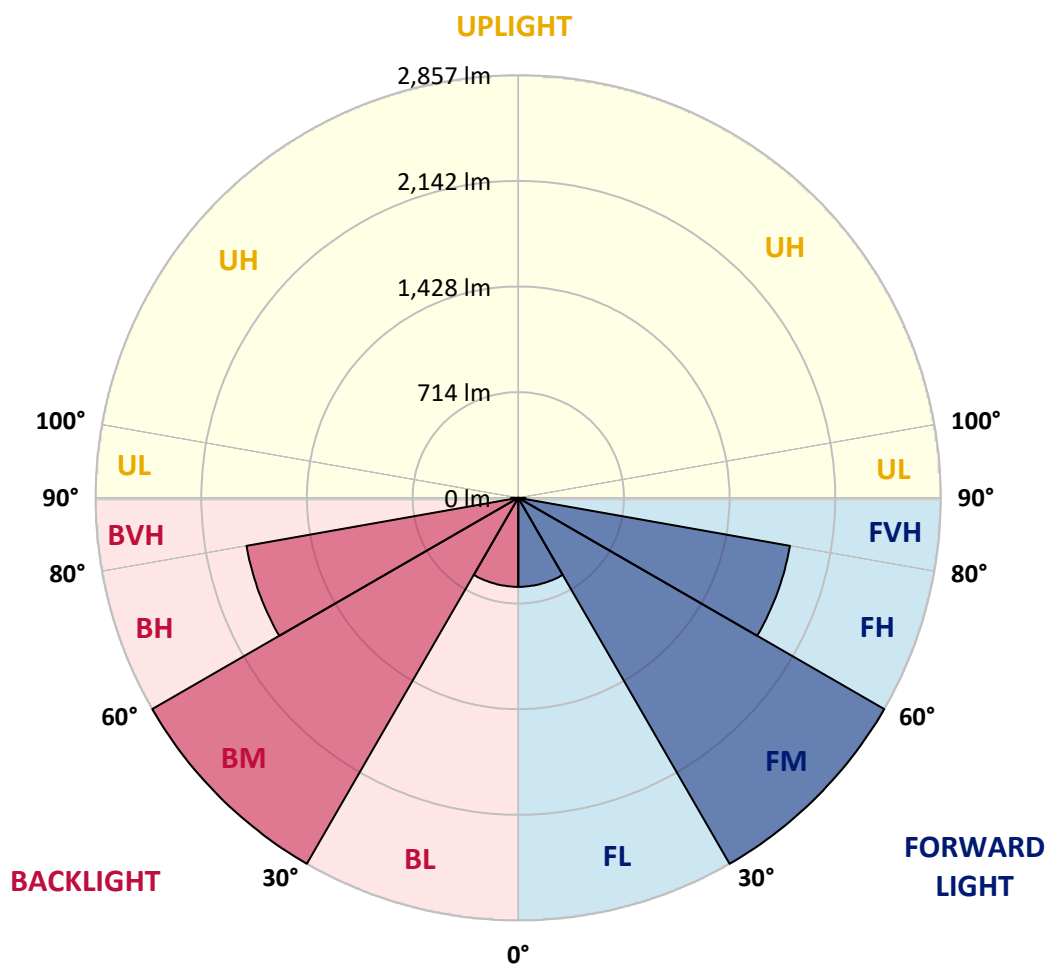
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	601.5	5.6			
FM	(30°-60°)	2856.6	26.6			
FH	(60°-80°)	1865.4	17.4			G2/5000
FVH	(80°-90°)	48.4	0.5			G1/100
BL	(0°-30°)	601.5	5.6	B2/1000		
BM	(30°-60°)	2856.6	26.6	B3/5000		
BH	(60°-80°)	1865.4	17.4	B3/2500		G3/2500
BVH	(80°-90°)	48.4	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°	1150.9	1150.9	1150.9	1150.9	1150.9	1150.9	1150.9	1150.9	1150.9	1150.9	1150.9
2.5°	1150.9	1149.7	1150.9	1152.0	1151.4	1151.4	1154.1	1155.8	1159.1	1158.6	1158.0
5°	1143.2	1142.7	1147.1	1152.0	1155.8	1162.4	1170.7	1176.7	1184.4	1186.0	1186.0
7.5°	1139.4	1137.8	1145.4	1154.1	1166.2	1182.7	1198.6	1215.0	1228.3	1232.7	1233.7
10°	1142.1	1142.7	1153.1	1169.5	1188.7	1211.8	1234.3	1262.3	1280.8	1285.2	1289.7
12.5°	1154.8	1153.6	1171.2	1197.5	1223.8	1253.0	1279.2	1309.9	1330.2	1340.7	1345.1
15°	1177.7	1175.6	1200.3	1239.2	1277.6	1311.6	1333.0	1362.1	1385.7	1398.8	1403.7
17.5°	1205.2	1206.3	1238.6	1289.1	1339.6	1378.0	1398.3	1413.1	1431.2	1442.7	1448.2
20°	1253.5	1255.6	1291.9	1351.7	1409.3	1453.1	1469.6	1464.1	1469.0	1477.8	1484.4
22.5°	1318.1	1319.3	1359.9	1424.6	1484.9	1533.2	1544.2	1521.7	1508.0	1514.0	1518.4
25°	1393.4	1400.5	1441.0	1507.5	1569.5	1615.5	1620.4	1586.4	1552.5	1554.1	1556.8
27.5°	1484.9	1491.6	1532.7	1598.5	1661.6	1701.6	1701.1	1655.6	1605.7	1593.1	1596.8
30°	1584.2	1591.4	1633.6	1701.6	1760.3	1795.4	1787.8	1733.5	1662.1	1638.6	1641.3
32.5°	1702.2	1706.5	1749.4	1817.4	1871.6	1899.6	1883.7	1816.8	1727.9	1701.1	1707.6
35°	1844.8	1851.4	1883.2	1947.4	1995.2	2018.1	1991.3	1912.2	1812.4	1782.3	1786.7
37.5°	2007.8	2003.4	2039.5	2096.6	2136.1	2150.3	2113.7	2019.8	1909.0	1873.3	1880.0
40°	2177.8	2175.6	2215.1	2270.0	2291.4	2300.1	2245.8	2143.3	2020.4	1981.9	1994.5
42.5°	2332.0	2330.2	2383.5	2444.4	2470.1	2460.3	2391.7	2274.4	2149.2	2105.4	2116.3
45°	2455.4	2453.1	2518.4	2604.0	2654.4	2638.0	2545.9	2419.1	2279.8	2234.3	2244.8
47.5°	2550.3	2551.3	2621.5	2727.4	2815.8	2821.8	2703.3	2566.7	2423.5	2372.0	2387.3
50°	2618.9	2622.2	2697.3	2814.6	2935.4	2988.6	2864.1	2718.1	2572.2	2514.0	2531.6
52.5°	2635.8	2641.8	2732.3	2870.1	3012.2	3113.6	3027.5	2863.4	2713.2	2657.8	2672.1
55°	2545.3	2557.4	2672.1	2865.7	3059.3	3196.0	3171.2	3011.0	2855.2	2798.2	2814.1
57.5°	2337.4	2354.4	2488.3	2741.2	3048.9	3252.4	3282.6	3152.6	2997.3	2942.5	2955.1
60°	2046.1	2066.4	2194.8	2470.8	2901.9	3273.2	3361.1	3290.2	3127.9	3074.7	3086.2
62.5°	1606.7	1633.0	1786.7	2110.3	2591.4	3176.2	3427.9	3414.8	3245.3	3178.9	3186.6
65°	1030.7	1058.7	1220.6	1602.9	2177.2	2878.8	3448.8	3536.0	3369.3	3276.5	3288.1
67.5°	621.6	634.2	714.2	971.5	1591.4	2430.7	3272.2	3670.4	3514.1	3398.9	3407.6
70°	397.7	404.9	452.5	570.5	899.6	1773.5	2834.4	3695.6	3689.6	3524.5	3523.4
72.5°	269.9	272.0	284.7	337.9	509.0	1007.7	2090.6	3345.7	3799.4	3686.3	3668.8
75°	197.5	209.5	229.8	239.1	289.0	503.6	1198.0	2350.6	3202.0	3251.3	3131.7
77.5°	147.0	147.6	175.6	186.5	206.2	268.2	506.9	1312.2	1988.0	2087.3	1861.8
80°	124.5	118.0	117.4	150.3	155.3	167.3	226.5	453.2	712.1	431.7	326.4
82.5°	103.6	96.6	87.2	117.4	105.9	102.6	98.2	184.3	226.5	111.3	94.9
85°	72.4	69.1	65.8	76.8	60.4	51.6	47.2	86.1	95.4	47.2	41.7
87.5°	31.3	32.4	32.9	34.0	25.2	18.1	18.1	24.1	24.1	18.7	13.7
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)