

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: P961920

Luminaire Tested: **NAV-SB2B-735-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961920
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-SB2B-735-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

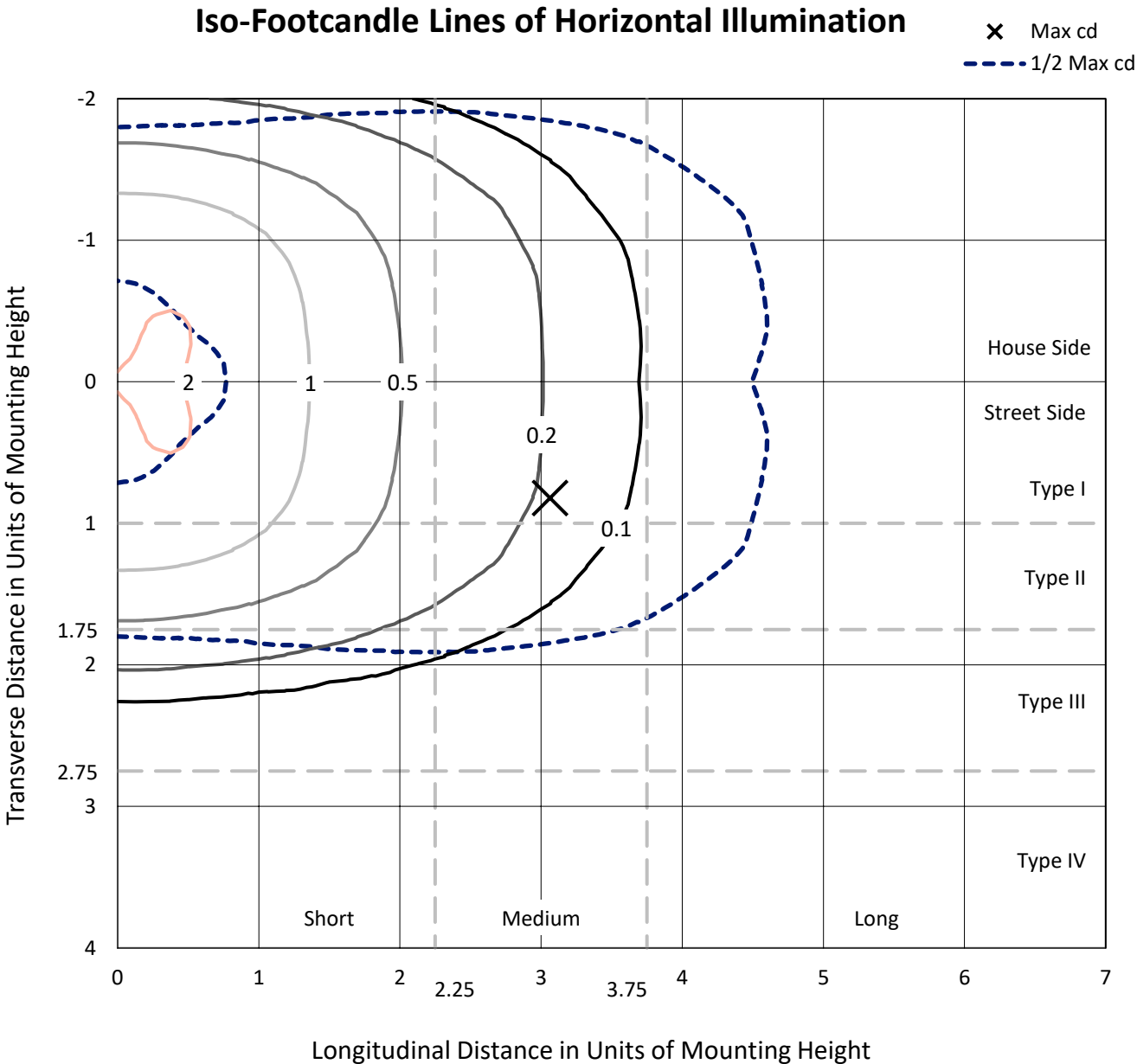
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11885.9 lumens
Efficiency: N/A
Efficacy: 160.8 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): 73.9
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



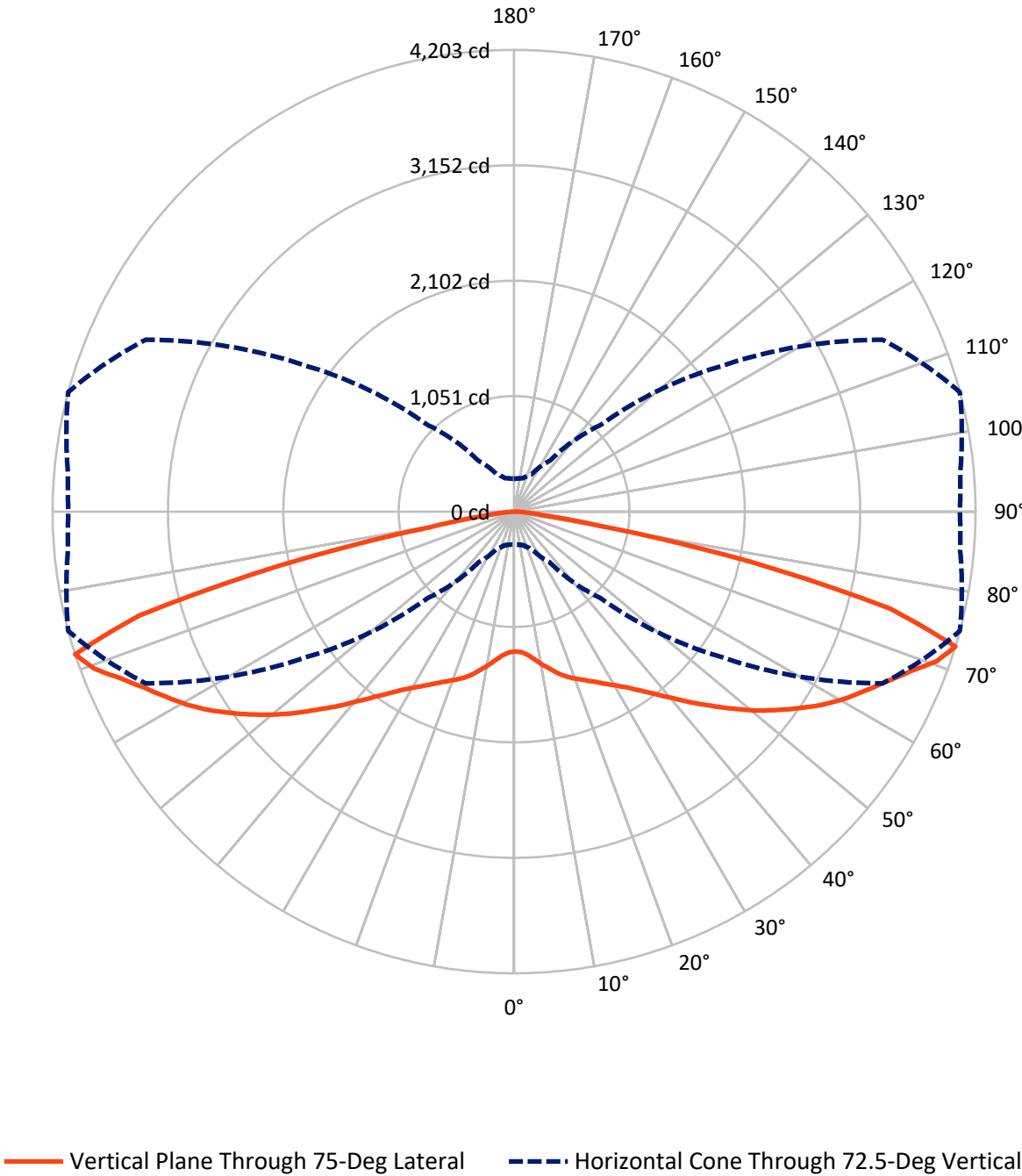
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Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5942.9	0.0	5942.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5942.9	0.0	5942.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	11885.9	0.0	11885.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.7	1.0
10°-20°	411.4	3.5
20°-30°	794.9	6.7
30°-40°	1342.2	11.3
40°-50°	2128.5	17.9
50°-60°	2849.8	24.0
60°-70°	2712.1	22.8
70°-80°	1415.2	11.9
80°-90°	107.1	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°	11885.9	100.0
0°-180°	11885.9	100.0

Coefficient of Utilization



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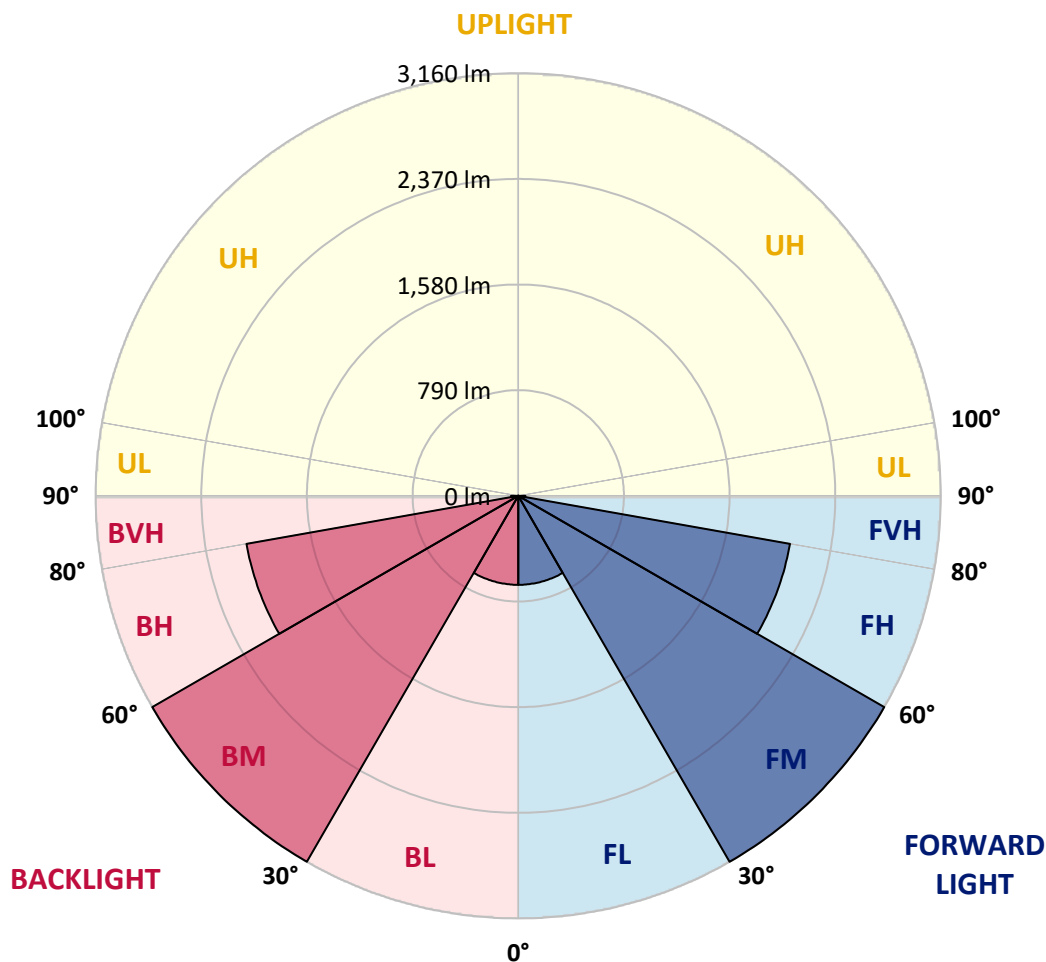
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	665.5	5.6			
FM	(30°-60°)	3160.2	26.6			
FH	(60°-80°)	2063.7	17.4			G2/5000
FVH	(80°-90°)	53.6	0.5			G1/100
BL	(0°-30°)	665.5	5.6	B2/1000		
BM	(30°-60°)	3160.2	26.6	B3/5000		
BH	(60°-80°)	2063.7	17.4	B3/2500		G3/2500
BVH	(80°-90°)	53.6	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°	1273.2	1273.2	1273.2	1273.2	1273.2	1273.2	1273.2	1273.2	1273.2	1273.2	1273.2
2.5°	1273.2	1272.0	1273.2	1274.4	1273.8	1273.8	1276.8	1278.7	1282.3	1281.7	1281.0
5°	1264.7	1264.1	1268.9	1274.4	1278.7	1286.0	1295.1	1301.8	1310.3	1312.0	1312.0
7.5°	1260.4	1258.6	1267.1	1276.8	1290.2	1308.4	1325.9	1344.2	1358.7	1363.7	1364.8
10°	1263.5	1264.1	1275.6	1293.9	1315.1	1340.6	1365.4	1396.4	1417.1	1421.9	1426.7
12.5°	1277.5	1276.2	1295.6	1324.8	1353.9	1386.1	1415.2	1449.1	1471.6	1483.2	1488.0
15°	1303.0	1300.5	1327.8	1370.9	1413.4	1451.0	1474.7	1506.9	1532.9	1547.4	1553.0
17.5°	1333.3	1334.4	1370.3	1426.1	1481.9	1524.5	1546.9	1563.2	1583.3	1596.0	1602.1
20°	1386.7	1389.1	1429.2	1495.3	1559.0	1607.6	1625.8	1619.7	1625.1	1634.9	1642.2
22.5°	1458.3	1459.5	1504.4	1576.0	1642.8	1696.2	1708.3	1683.5	1668.3	1675.0	1679.8
25°	1541.4	1549.3	1594.2	1667.7	1736.2	1787.2	1792.6	1755.0	1717.4	1719.2	1722.3
27.5°	1642.8	1650.0	1695.6	1768.4	1838.1	1882.5	1881.9	1831.5	1776.3	1762.3	1766.6
30°	1752.6	1760.5	1807.3	1882.5	1947.4	1986.2	1977.7	1917.7	1838.7	1812.7	1815.7
32.5°	1883.1	1887.9	1935.3	2010.5	2070.6	2101.6	2083.9	2009.9	1911.6	1881.9	1889.2
35°	2040.9	2048.2	2083.3	2154.3	2207.1	2232.7	2202.9	2115.5	2005.1	1971.7	1976.5
37.5°	2221.1	2216.3	2256.3	2319.4	2363.1	2378.9	2338.2	2234.5	2111.9	2072.4	2079.7
40°	2409.3	2406.8	2450.5	2511.1	2534.8	2544.6	2484.5	2371.0	2235.1	2192.6	2206.5
42.5°	2579.7	2578.0	2636.8	2704.2	2732.6	2721.8	2645.9	2516.1	2377.7	2329.1	2341.3
45°	2716.4	2713.9	2786.1	2880.8	2936.6	2918.4	2816.4	2676.3	2522.1	2471.8	2483.3
47.5°	2821.3	2822.5	2900.1	3017.3	3115.0	3121.7	2990.6	2839.5	2681.1	2624.1	2641.0
50°	2897.2	2900.7	2984.0	3113.8	3247.3	3306.1	3168.4	3007.0	2845.6	2781.2	2800.7
52.5°	2915.9	2922.7	3022.7	3175.1	3332.3	3444.5	3349.3	3167.8	3001.5	2940.2	2956.0
55°	2815.9	2829.2	2956.0	3170.2	3384.4	3535.5	3508.3	3331.0	3158.7	3095.6	3113.2
57.5°	2585.9	2604.6	2752.7	3032.5	3373.0	3598.1	3631.5	3487.7	3315.9	3255.2	3269.1
60°	2263.6	2286.1	2428.0	2733.3	3210.3	3621.1	3718.2	3640.0	3460.3	3401.5	3414.2
62.5°	1777.5	1806.7	1976.5	2334.5	2866.8	3513.7	3792.3	3777.7	3590.2	3516.8	3525.3
65°	1140.3	1171.3	1350.2	1773.2	2408.6	3184.8	3815.4	3911.8	3727.3	3624.8	3637.5
67.5°	687.6	701.5	790.2	1074.7	1760.5	2689.0	3619.9	4060.5	3887.5	3760.1	3769.8
70°	439.9	447.8	500.6	631.1	995.3	1962.0	3135.7	4088.4	4081.8	3899.1	3897.9
72.5°	298.6	301.0	315.0	373.8	563.1	1114.8	2312.7	3701.3	4203.1	4078.1	4058.7
75°	218.4	231.9	254.3	264.6	319.8	557.1	1325.4	2600.4	3542.2	3596.8	3464.6
77.5°	162.7	163.3	194.2	206.3	228.2	296.7	560.8	1451.6	2199.2	2309.1	2059.6
80°	137.8	130.5	129.9	166.3	171.8	185.1	250.6	501.2	787.7	477.6	361.1
82.5°	114.7	106.8	96.5	129.9	117.2	113.5	108.6	203.9	250.6	123.2	105.0
85°	80.2	76.5	72.8	85.0	66.7	57.1	52.2	95.3	105.6	52.2	46.1
87.5°	34.5	35.8	36.4	37.6	27.9	20.0	20.0	26.8	26.8	20.6	15.2
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)