

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: P962075

Luminaire Tested: **NAV-SB2B-830-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962075
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-830-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10680.5 lumens
Efficiency: N/A
Efficacy: 144.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

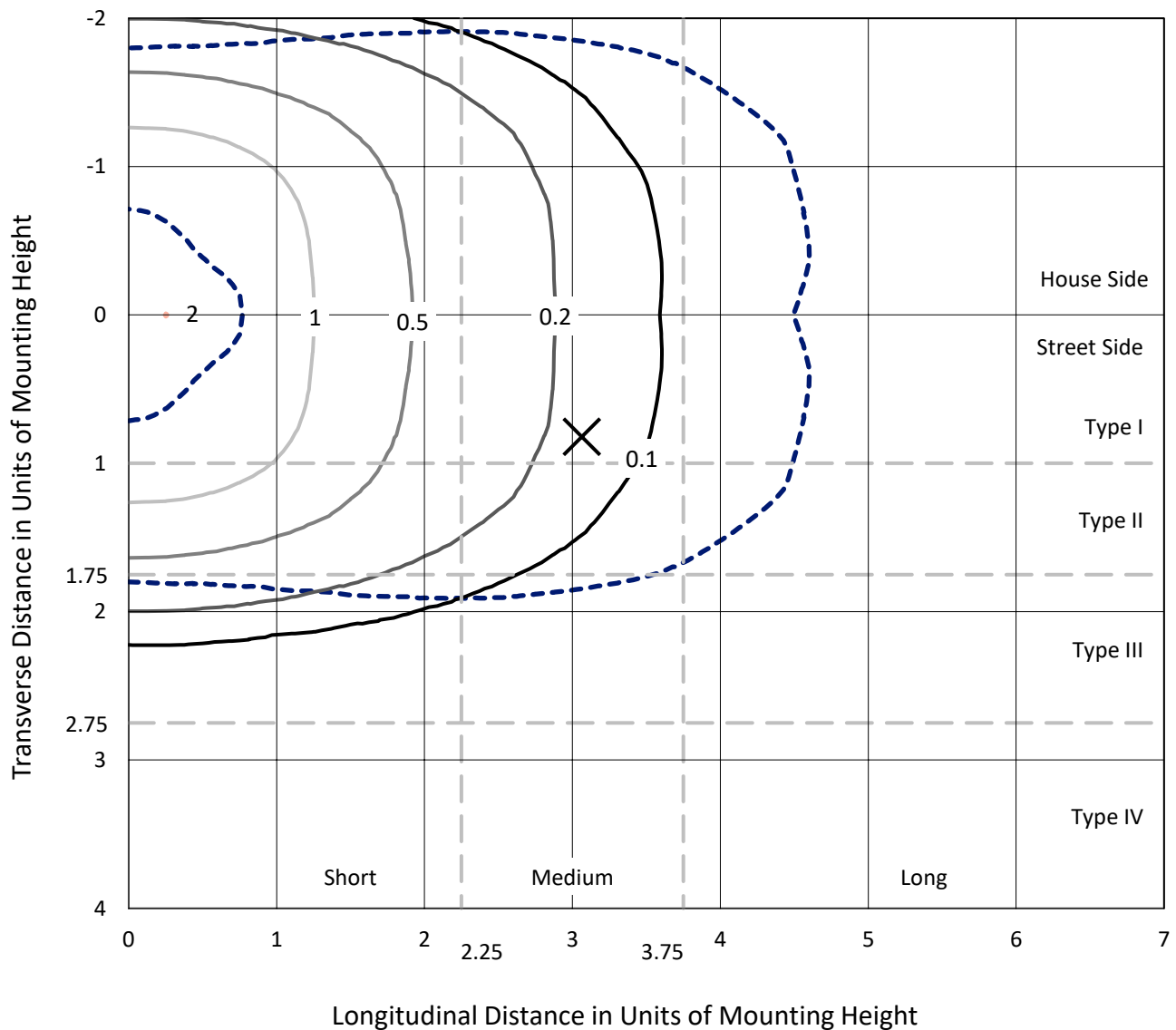
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

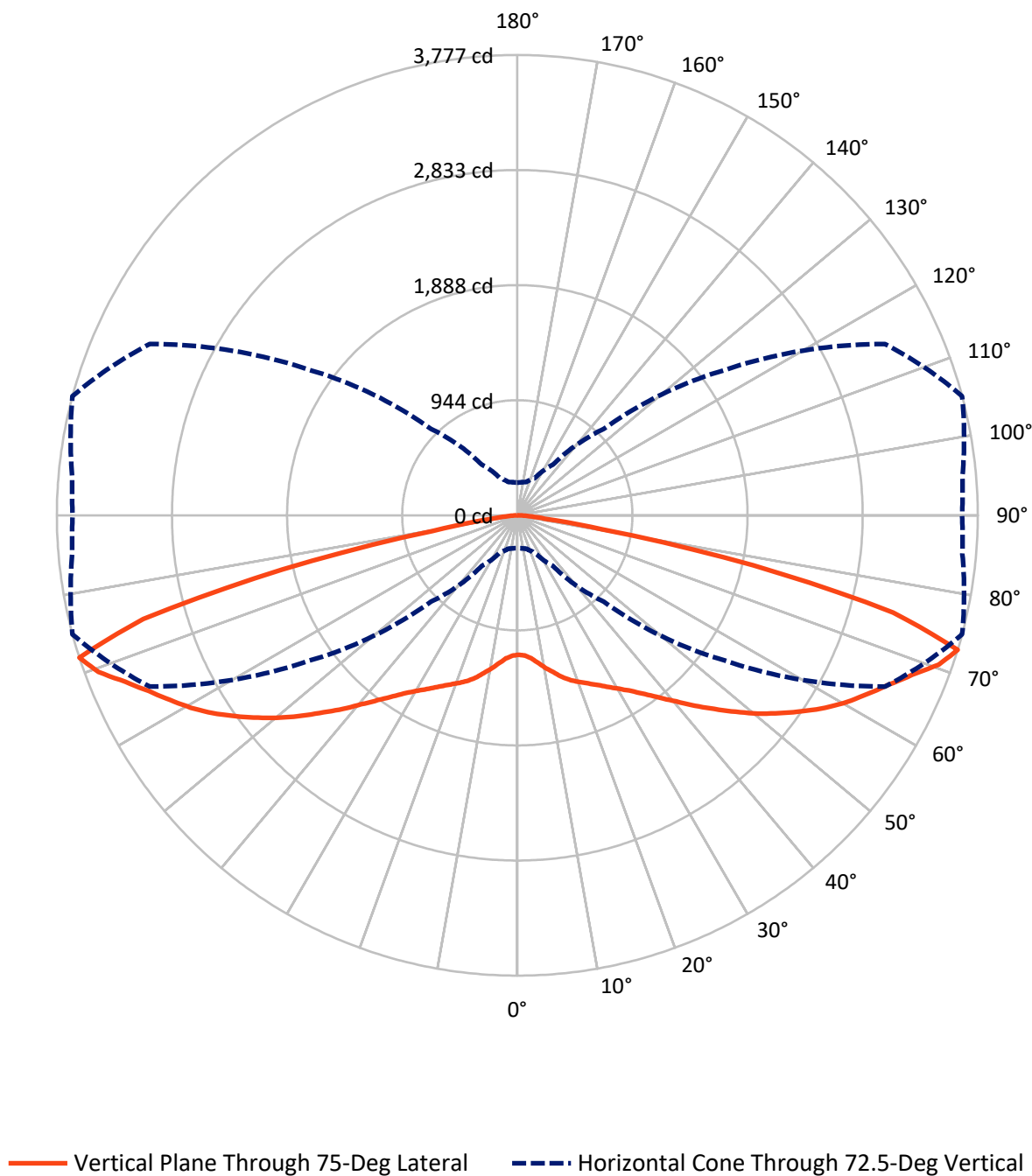
× Max cd
- - - 1/2 Max cd



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	5340.3	0.0	5340.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5340.3	0.0	5340.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	10680.5	0.0	10680.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.1	1.0
10°-20°	369.6	3.5
20°-30°	714.2	6.7
30°-40°	1206.0	11.3
40°-50°	1912.7	17.9
50°-60°	2560.8	24.0
60°-70°	2437.1	22.8
70°-80°	1271.7	11.9
80°-90°	96.3	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°	10680.5	100.0
0°-180°	10680.5	100.0

Coefficient of Utilization



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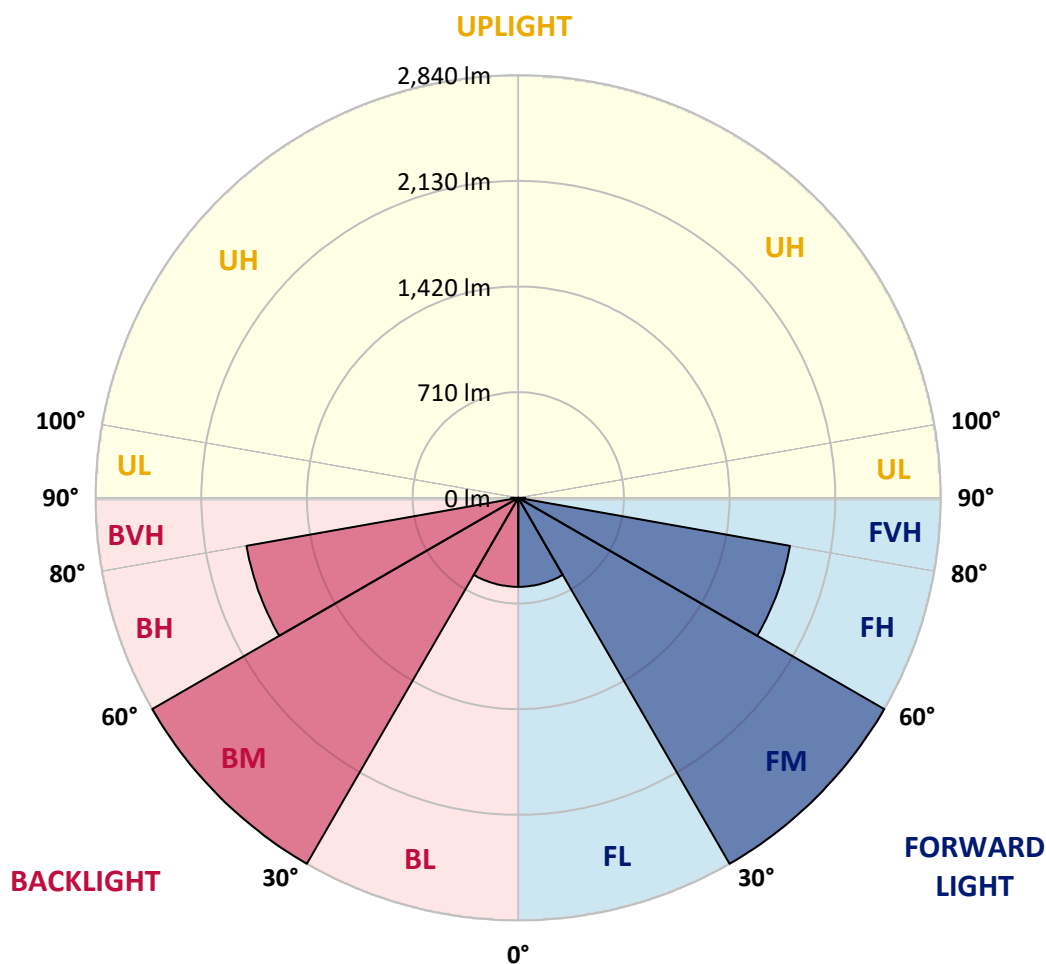
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	598.0	5.6			
FM	(30°-60°)	2839.8	26.6			
FH	(60°-80°)	1854.4	17.4			G2/5000
FVH	(80°-90°)	48.1	0.5			G1/100
BL	(0°-30°)	598.0	5.6	B2/1000		
BM	(30°-60°)	2839.8	26.6	B3/5000		
BH	(60°-80°)	1854.4	17.4	B3/2500		G3/2500
BVH	(80°-90°)	48.1	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°	1144.1	1144.1	1144.1	1144.1	1144.1	1144.1	1144.1	1144.1	1144.1	1144.1	1144.1
2.5°	1144.1	1143.0	1144.1	1145.1	1144.6	1144.6	1147.4	1149.0	1152.2	1151.7	1151.2
5°	1136.4	1135.9	1140.2	1145.1	1149.0	1155.5	1163.7	1169.7	1177.3	1179.0	1179.0
7.5°	1132.6	1131.0	1138.6	1147.4	1159.4	1175.7	1191.6	1207.9	1221.0	1225.3	1226.4
10°	1135.4	1135.9	1146.3	1162.7	1181.7	1204.6	1226.9	1254.8	1273.4	1277.7	1282.1
12.5°	1147.9	1146.8	1164.3	1190.4	1216.6	1245.5	1271.7	1302.3	1322.4	1332.7	1337.1
15°	1170.8	1168.6	1193.1	1231.8	1270.1	1303.8	1325.1	1354.0	1377.5	1390.5	1395.4
17.5°	1198.0	1199.1	1231.3	1281.5	1331.7	1369.8	1390.0	1404.8	1422.7	1434.2	1439.6
20°	1246.1	1248.2	1284.2	1343.7	1400.9	1444.5	1460.9	1455.4	1460.3	1469.0	1475.6
22.5°	1310.4	1311.5	1351.9	1416.1	1476.2	1524.2	1535.0	1512.7	1499.1	1505.1	1509.4
25°	1385.1	1392.2	1432.5	1498.6	1560.2	1606.0	1610.9	1577.1	1543.2	1544.9	1547.6
27.5°	1476.2	1482.8	1523.7	1589.1	1651.8	1691.6	1691.0	1645.7	1596.1	1583.6	1587.4
30°	1574.9	1582.0	1623.9	1691.6	1749.9	1784.8	1777.1	1723.2	1652.3	1628.8	1631.6
32.5°	1692.1	1696.5	1739.0	1806.7	1860.6	1888.5	1872.6	1806.0	1717.7	1691.0	1697.6
35°	1833.9	1840.5	1872.1	1935.9	1983.3	2006.2	1979.5	1901.0	1801.7	1771.7	1776.1
37.5°	1995.9	1991.5	2027.4	2084.2	2123.5	2137.6	2101.1	2007.9	1897.7	1862.2	1868.8
40°	2164.9	2162.8	2202.0	2256.5	2277.8	2286.5	2232.6	2130.6	2008.4	1970.3	1982.8
42.5°	2318.1	2316.5	2369.4	2430.0	2455.6	2445.8	2377.6	2260.8	2136.5	2092.9	2103.8
45°	2440.8	2438.7	2503.6	2588.6	2638.8	2622.5	2530.8	2404.9	2266.4	2221.1	2231.4
47.5°	2535.1	2536.3	2606.1	2711.3	2799.1	2805.1	2687.3	2551.5	2409.2	2357.9	2373.2
50°	2603.3	2606.6	2681.3	2798.0	2918.0	2970.9	2847.1	2702.0	2557.0	2499.2	2516.7
52.5°	2620.2	2626.3	2716.2	2853.1	2994.3	3095.2	3009.6	2846.5	2697.1	2642.0	2656.2
55°	2530.3	2542.3	2656.2	2848.7	3041.3	3177.0	3152.5	2993.2	2838.3	2781.6	2797.4
57.5°	2323.6	2340.5	2473.5	2725.0	3030.8	3233.2	3263.2	3133.9	2979.6	2925.0	2937.6
60°	2034.0	2054.2	2181.8	2456.1	2884.8	3253.9	3341.2	3270.8	3109.4	3056.4	3067.9
62.5°	1597.3	1623.4	1776.1	2097.9	2576.0	3157.4	3407.7	3394.6	3226.1	3160.1	3167.8
65°	1024.7	1052.5	1213.3	1593.4	2164.4	2861.8	3428.4	3515.1	3349.3	3257.1	3268.6
67.5°	617.9	630.4	710.0	965.8	1582.0	2416.3	3252.8	3648.7	3493.3	3378.8	3387.5
70°	395.3	402.4	449.9	567.1	894.3	1763.0	2817.6	3673.8	3667.8	3503.7	3502.5
72.5°	268.3	270.5	283.0	335.9	506.0	1001.7	2078.2	3325.9	3776.8	3664.5	3647.1
75°	196.3	208.3	228.5	237.8	287.4	500.6	1190.9	2336.7	3183.0	3232.1	3113.2
77.5°	146.2	146.7	174.5	185.4	205.0	266.7	503.9	1304.4	1976.2	2074.9	1850.8
80°	123.8	117.3	116.7	149.4	154.4	166.4	225.2	450.4	707.9	429.2	324.4
82.5°	103.1	95.9	86.7	116.7	105.3	102.0	97.6	183.3	225.2	110.7	94.3
85°	72.0	68.7	65.4	76.4	60.0	51.2	46.9	85.6	94.9	46.9	41.4
87.5°	31.1	32.2	32.7	33.8	25.1	18.0	18.0	24.0	24.0	18.6	13.6
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)