

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: P961884

Luminaire Tested: **NAV-SB2B-730-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961884
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2B-730-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12087.8 lumens
Efficiency: N/A
Efficacy: 163.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

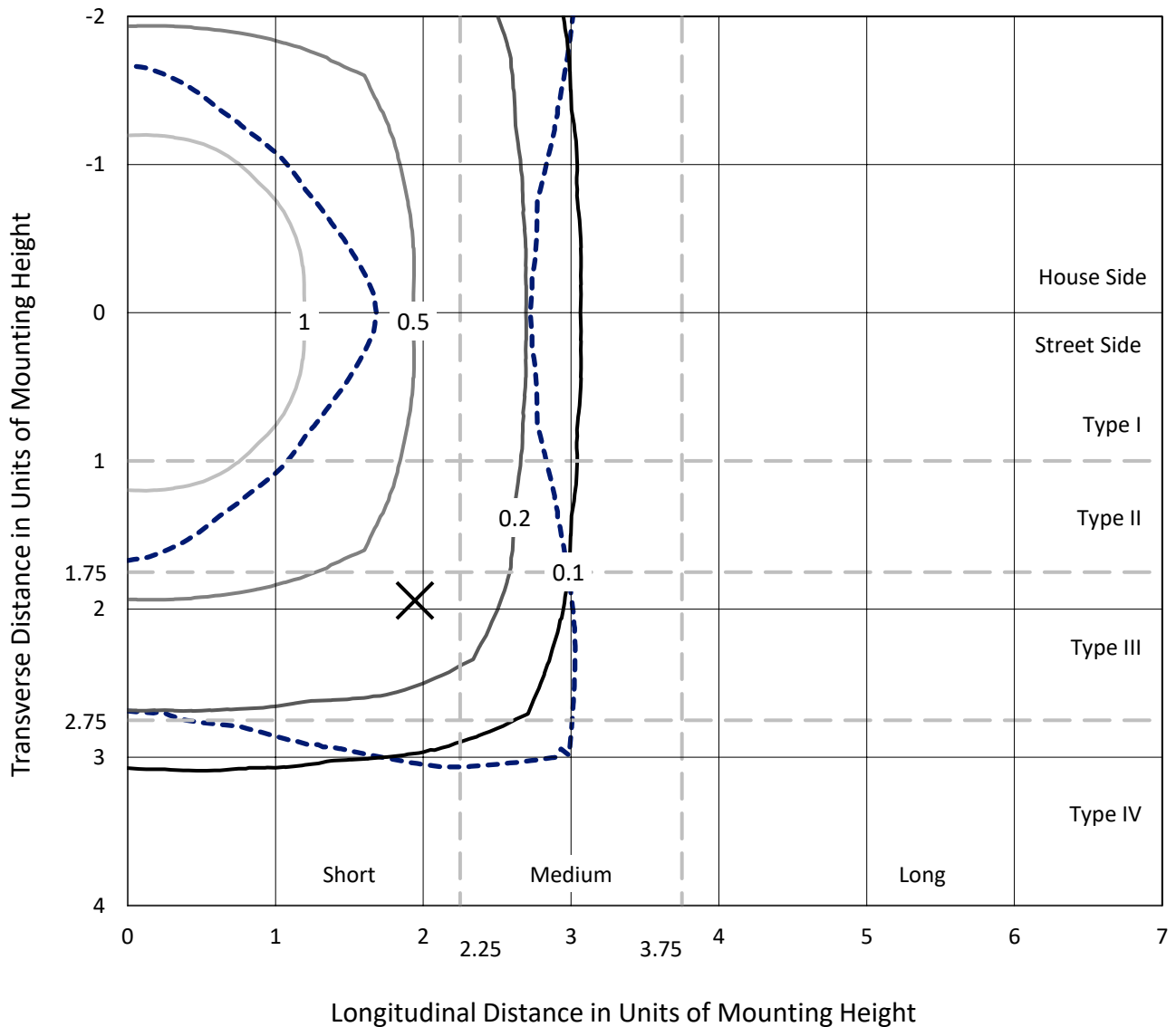
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

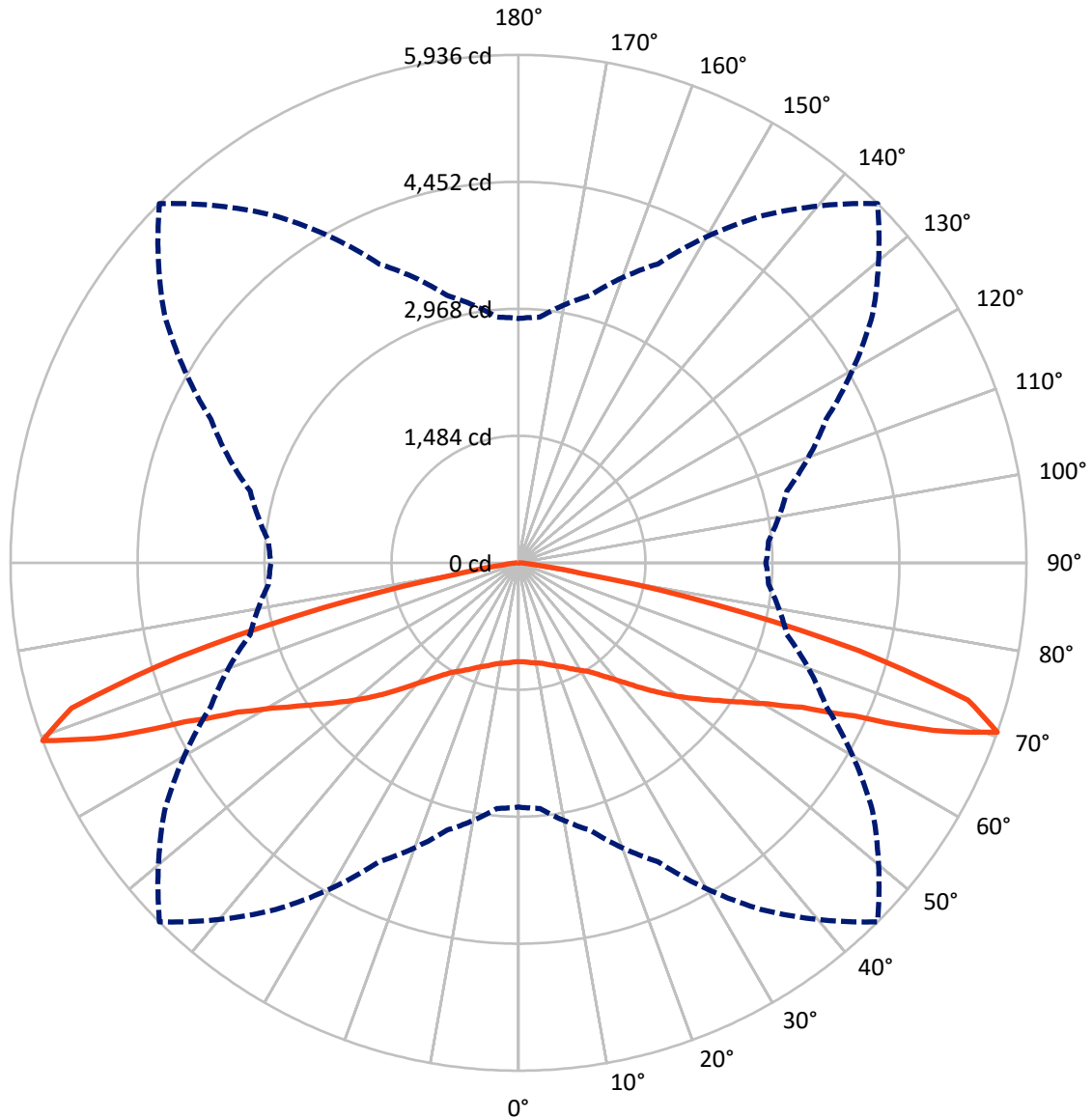
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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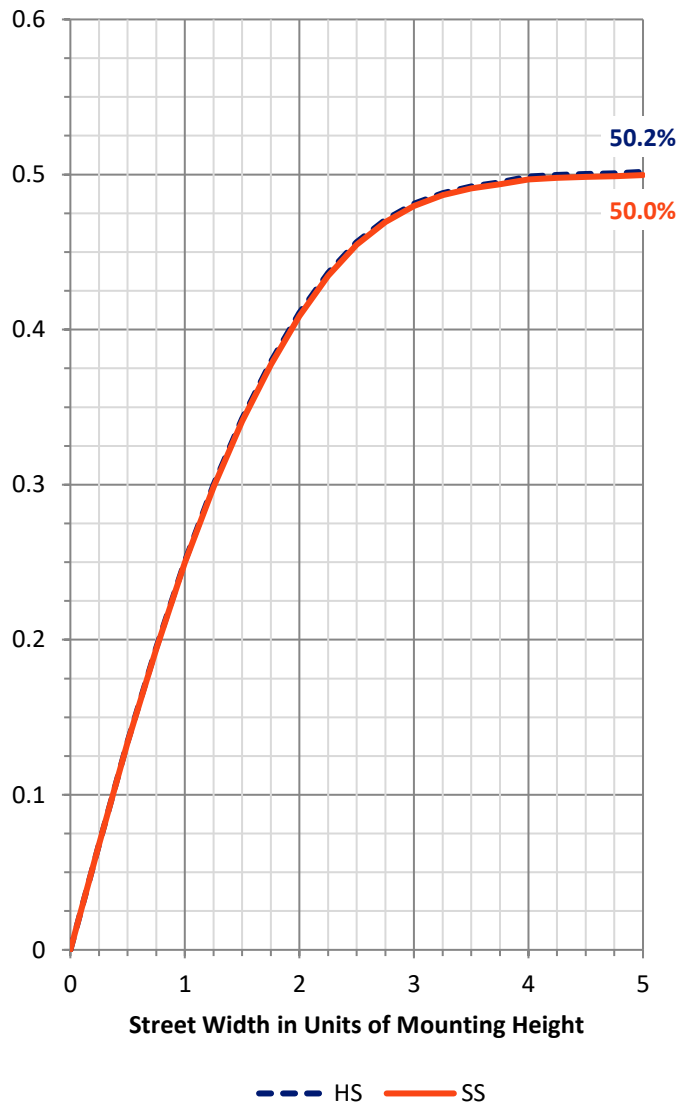
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6043.9	0.0	6043.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6043.9	0.0	6043.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	12087.8	0.0	12087.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.5	0.9
10°-20°	348.8	2.9
20°-30°	623.4	5.2
30°-40°	1010.5	8.4
40°-50°	1645.9	13.6
50°-60°	2509.4	20.8
60°-70°	3733.3	30.9
70°-80°	2034.8	16.8
80°-90°	69.3	0.6
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°	12087.8	100.0
0°-180°	12087.8	100.0

Coefficient of Utilization



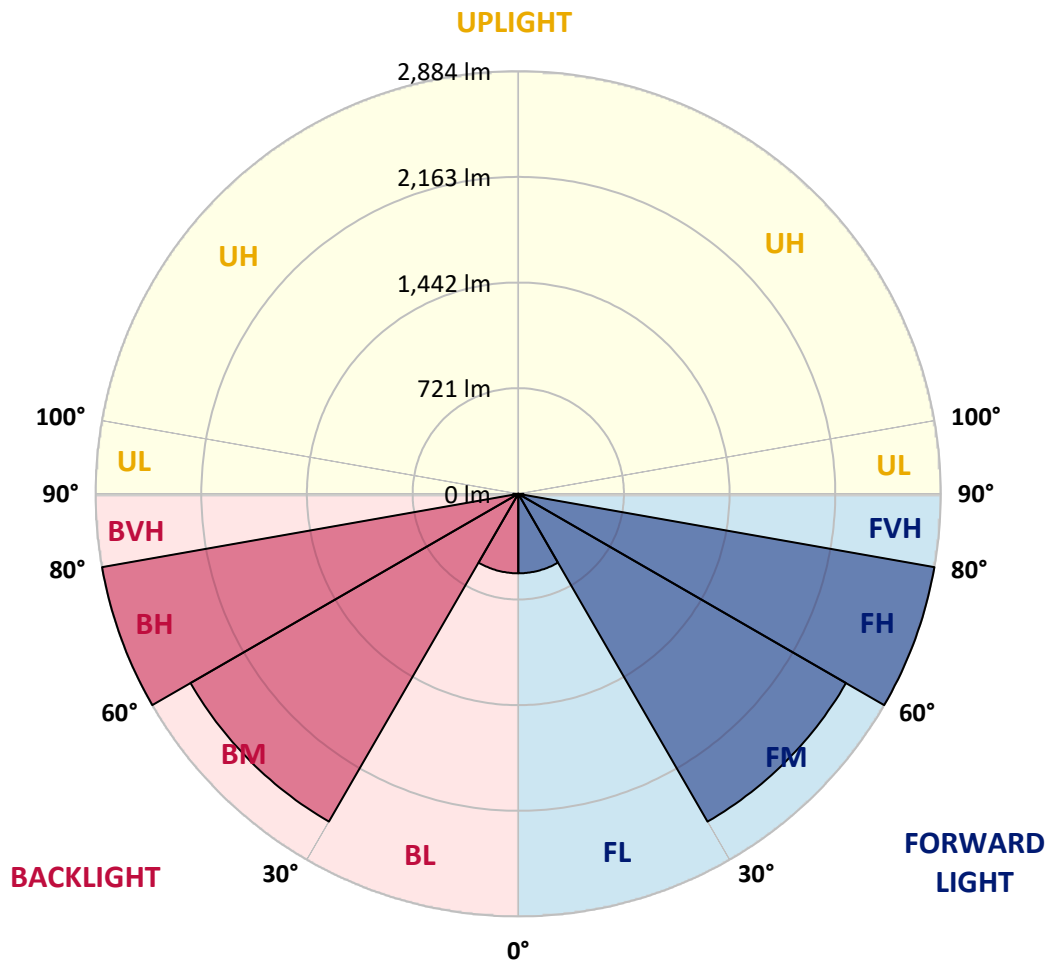
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	542.3	4.5			
FM (30°-60°)	2582.9	21.4			
FH (60°-80°)	2884.0	23.9			G2/5000
FVH (80°-90°)	34.6	0.3			G1/100
BL (0°-30°)	542.3	4.5	B2/1000		
BM (30°-60°)	2582.9	21.4	B3/5000		
BH (60°-80°)	2884.0	23.9	B4/5000		G2/5000
BVH (80°-90°)	34.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1157.8	1157.8	1157.8	1157.8	1157.8	1157.8	1157.8	1157.8	1157.8	1157.8	1157.8
2.5°	1163.4	1164.6	1162.1	1160.9	1159.7	1157.8	1158.5	1161.5	1164.0	1163.4	1164.0
5°	1173.0	1174.2	1172.5	1171.9	1169.4	1168.8	1168.8	1171.9	1173.6	1172.5	1173.0
7.5°	1184.0	1185.8	1182.7	1182.1	1180.9	1179.8	1179.2	1182.1	1184.0	1184.0	1184.0
10°	1194.3	1196.1	1193.7	1191.9	1190.6	1190.6	1189.4	1191.9	1194.9	1194.3	1194.3
12.5°	1205.2	1206.4	1204.0	1202.8	1202.8	1204.6	1202.8	1204.0	1206.4	1205.2	1204.6
15°	1218.6	1219.1	1218.6	1220.4	1223.4	1229.5	1224.1	1222.8	1224.1	1221.0	1221.0
17.5°	1236.8	1238.0	1240.5	1244.7	1249.0	1259.8	1250.1	1247.1	1247.1	1241.1	1241.1
20°	1259.2	1261.1	1264.6	1272.0	1277.5	1287.7	1278.1	1273.8	1272.0	1264.1	1264.1
22.5°	1282.9	1286.0	1291.4	1301.1	1310.8	1320.5	1310.8	1303.5	1298.1	1287.7	1287.2
25°	1310.3	1313.8	1322.4	1338.1	1351.5	1365.4	1353.9	1339.4	1328.4	1313.8	1313.2
27.5°	1349.0	1353.3	1363.7	1383.0	1400.0	1412.1	1401.3	1382.4	1367.2	1349.6	1349.0
30°	1403.6	1407.9	1420.0	1440.6	1452.2	1460.1	1452.8	1438.3	1420.0	1400.0	1400.0
32.5°	1474.1	1479.5	1492.9	1512.3	1514.7	1516.0	1513.5	1506.2	1492.9	1468.6	1469.2
35°	1563.2	1569.4	1584.5	1600.3	1597.9	1600.3	1596.6	1594.2	1584.5	1556.6	1556.6
37.5°	1672.5	1679.8	1695.6	1707.8	1701.6	1698.6	1699.2	1699.9	1694.3	1663.4	1663.4
40°	1799.4	1809.0	1820.6	1833.3	1823.0	1813.9	1820.0	1824.8	1820.0	1788.4	1788.4
42.5°	1929.8	1943.8	1955.9	1974.2	1965.6	1954.1	1962.6	1968.0	1957.7	1923.7	1926.2
45°	2074.8	2088.2	2104.0	2131.3	2125.2	2113.0	2125.2	2126.5	2108.8	2068.8	2073.1
47.5°	2224.8	2238.7	2262.4	2298.8	2296.3	2283.0	2298.8	2290.3	2267.8	2219.8	2216.9
50°	2366.7	2386.2	2422.6	2473.5	2478.4	2462.0	2483.3	2466.9	2429.2	2369.2	2368.0
52.5°	2500.3	2520.9	2578.6	2647.8	2665.3	2644.1	2672.6	2644.1	2587.6	2510.5	2503.3
55°	2640.4	2663.5	2732.0	2822.5	2857.7	2841.9	2868.7	2825.5	2745.5	2652.0	2639.3
57.5°	2805.5	2819.5	2901.4	3008.8	3068.2	3071.9	3084.0	3011.2	2914.2	2808.0	2793.3
60°	2984.5	3004.0	3093.1	3221.8	3315.9	3346.2	3333.5	3225.5	3112.6	2990.6	2971.2
62.5°	3213.9	3235.2	3342.0	3496.1	3644.8	3720.0	3670.3	3513.7	3374.1	3227.9	3202.4
65°	3403.9	3427.5	3620.5	3895.4	4166.1	4317.2	4192.1	3903.9	3652.7	3446.4	3412.3
67.5°	3266.2	3295.3	3598.1	4103.0	4776.0	5226.9	4799.0	4164.9	3672.7	3393.0	3351.0
70°	2854.6	2882.0	3235.2	3852.4	4947.8	5935.7	5050.9	3965.8	3246.7	2933.5	2891.7
72.5°	1895.2	1983.2	2340.7	3081.0	4418.0	5492.7	4461.6	3018.5	2171.4	1891.0	1829.7
75°	628.7	699.2	943.1	1597.3	2959.1	4107.8	2817.0	1413.4	747.0	537.7	508.5
77.5°	158.4	182.7	251.8	456.9	1180.4	2338.8	1062.6	373.2	203.3	142.0	126.8
80°	77.1	85.0	121.4	152.3	295.5	743.4	277.4	143.2	95.8	74.0	68.0
82.5°	42.4	43.0	68.6	86.2	109.9	192.4	114.1	83.7	55.2	44.9	44.9
85°	26.1	25.5	36.4	46.1	46.1	68.6	54.6	46.1	31.6	27.9	29.1
87.5°	10.4	10.4	13.3	14.6	12.7	17.6	13.9	15.2	12.1	11.5	12.1
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)