

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: P960861

Luminaire Tested: **NAV-SB1D-735-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960861
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-SB1D-735-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10926.5 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

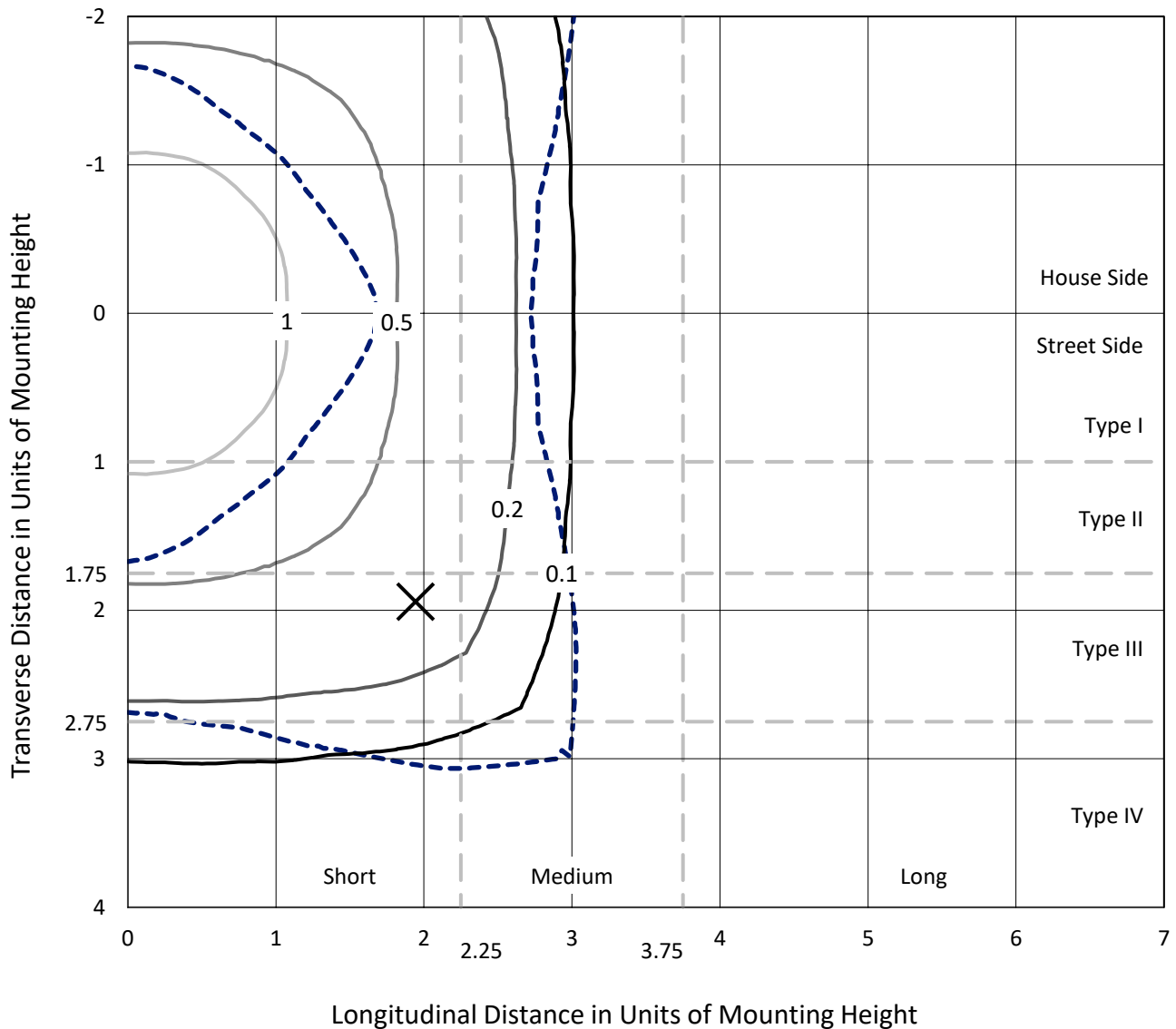
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

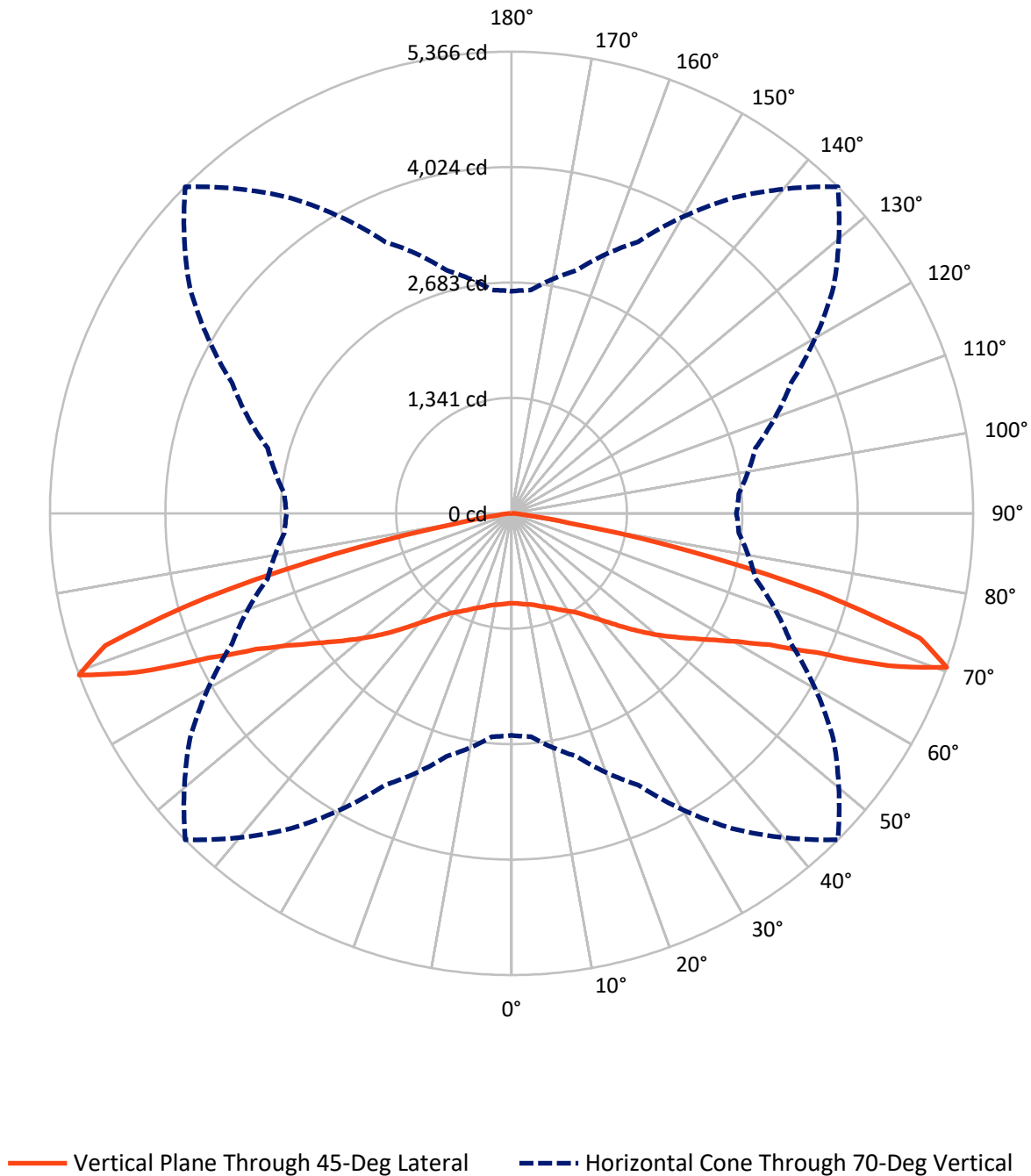
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5463.3	0.0	5463.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5463.3	0.0	5463.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	10926.5	0.0	10926.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.7	0.9
10°-20°	315.3	2.9
20°-30°	563.5	5.2
30°-40°	913.4	8.4
40°-50°	1487.8	13.6
50°-60°	2268.4	20.8
60°-70°	3374.6	30.9
70°-80°	1839.3	16.8
80°-90°	62.6	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°	10926.5	100.0
0°-180°	10926.5	100.0

Coefficient of Utilization



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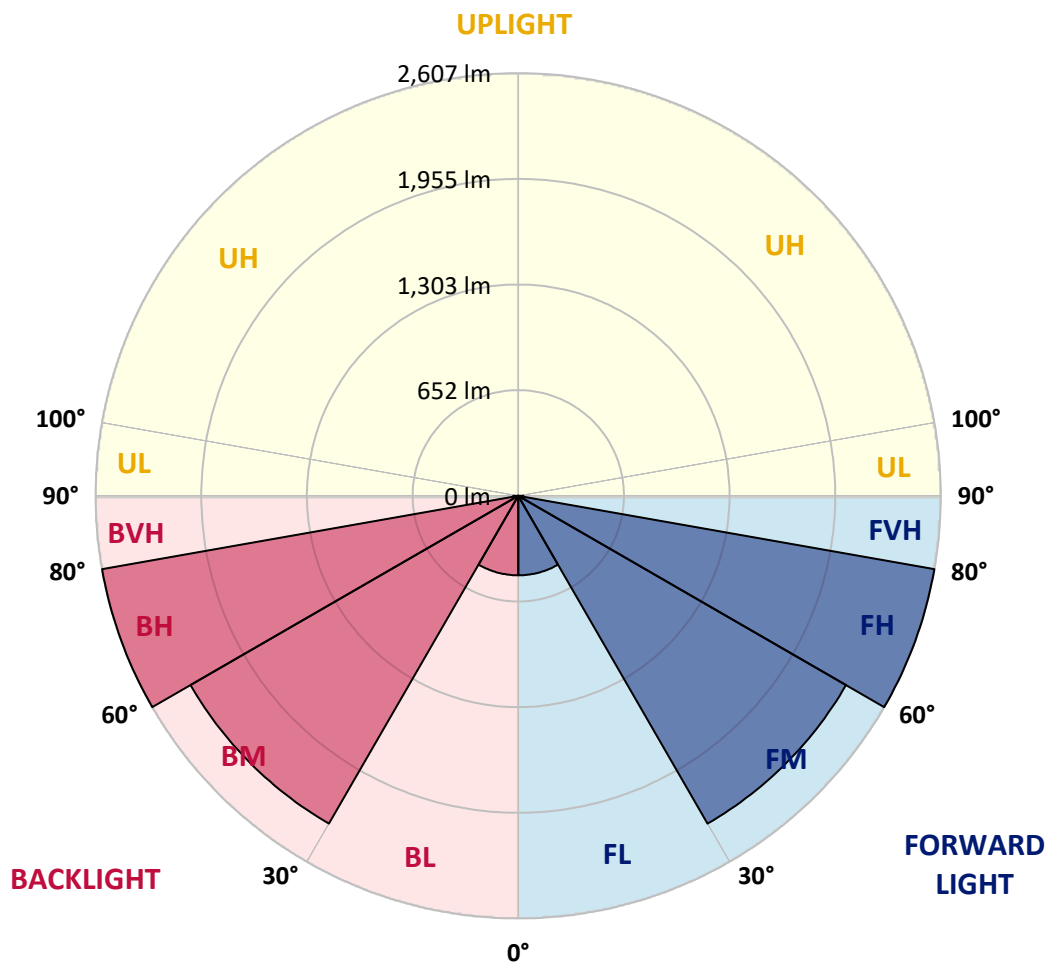
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	490.2	4.5			
FM	(30°-60°)	2334.8	21.4			
FH	(60°-80°)	2606.9	23.9			G2/5000
FVH	(80°-90°)	31.3	0.3			G1/100
BL	(0°-30°)	490.2	4.5	B1/500		
BM	(30°-60°)	2334.8	21.4	B2/2500		
BH	(60°-80°)	2606.9	23.9	B4/5000		G2/5000
BVH	(80°-90°)	31.3	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°	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6
2.5°	1051.5	1052.7	1050.5	1049.4	1048.3	1046.6	1047.2	1049.9	1052.2	1051.5	1052.2
5°	1060.4	1061.5	1059.8	1059.2	1057.1	1056.6	1056.6	1059.2	1060.9	1059.8	1060.4
7.5°	1070.2	1071.8	1069.2	1068.6	1067.5	1066.4	1065.8	1068.6	1070.2	1070.2	1070.2
10°	1079.5	1081.2	1079.0	1077.4	1076.2	1076.2	1075.1	1077.4	1080.1	1079.5	1079.5
12.5°	1089.5	1090.5	1088.3	1087.2	1087.2	1088.9	1087.2	1088.3	1090.5	1089.5	1088.9
15°	1101.5	1102.1	1101.5	1103.1	1105.9	1111.4	1106.5	1105.4	1106.5	1103.7	1103.7
17.5°	1118.0	1119.1	1121.2	1125.0	1128.9	1138.8	1130.1	1127.3	1127.3	1121.8	1121.8
20°	1138.3	1139.9	1143.2	1149.7	1154.7	1164.0	1155.3	1151.4	1149.7	1142.7	1142.7
22.5°	1159.7	1162.4	1167.4	1176.1	1184.9	1193.6	1184.9	1178.3	1173.3	1164.0	1163.5
25°	1184.3	1187.7	1195.4	1209.6	1221.6	1234.2	1223.8	1210.6	1200.8	1187.7	1187.1
27.5°	1219.4	1223.2	1232.6	1250.2	1265.6	1276.5	1266.6	1249.6	1235.9	1220.0	1219.4
30°	1268.8	1272.6	1283.6	1302.3	1312.7	1319.8	1313.2	1300.1	1283.6	1265.6	1265.6
32.5°	1332.4	1337.4	1349.4	1367.0	1369.2	1370.3	1368.1	1361.5	1349.4	1327.5	1328.1
35°	1413.1	1418.6	1432.2	1446.6	1444.3	1446.6	1443.3	1441.0	1432.2	1407.0	1407.0
37.5°	1511.8	1518.4	1532.7	1543.6	1538.1	1535.4	1536.0	1536.5	1531.6	1503.6	1503.6
40°	1626.5	1635.3	1645.6	1657.2	1647.9	1639.6	1645.1	1649.5	1645.1	1616.6	1616.6
42.5°	1744.4	1757.1	1768.0	1784.4	1776.7	1766.4	1774.1	1779.0	1769.7	1738.9	1741.2
45°	1875.5	1887.5	1901.9	1926.5	1921.1	1910.1	1921.1	1922.2	1906.2	1870.0	1873.9
47.5°	2011.0	2023.7	2045.0	2078.0	2075.7	2063.6	2078.0	2070.3	2050.0	2006.6	2003.9
50°	2139.4	2156.9	2189.8	2235.9	2240.3	2225.5	2244.6	2229.9	2195.9	2141.5	2140.5
52.5°	2260.0	2278.7	2330.8	2393.4	2409.3	2390.1	2415.8	2390.1	2339.0	2269.4	2262.8
55°	2386.8	2407.6	2469.6	2551.3	2583.1	2568.9	2593.0	2554.1	2481.6	2397.2	2385.7
57.5°	2536.0	2548.6	2622.7	2719.7	2773.5	2776.8	2787.8	2721.9	2634.1	2538.2	2525.0
60°	2697.8	2715.3	2796.0	2912.3	2997.3	3024.8	3013.2	2915.6	2813.5	2703.3	2685.7
62.5°	2905.2	2924.3	3020.9	3160.3	3294.7	3362.6	3317.7	3176.2	3050.0	2917.8	2894.7
65°	3076.8	3098.3	3272.7	3521.2	3765.8	3902.4	3789.4	3528.9	3301.7	3115.3	3084.5
67.5°	2952.3	2978.6	3252.4	3708.8	4317.1	4724.7	4338.0	3764.7	3319.9	3067.0	3029.1
70°	2580.4	2605.1	2924.3	3482.2	4472.4	5365.5	4565.7	3584.8	2934.8	2651.7	2613.9
72.5°	1713.2	1792.7	2115.8	2785.0	3993.5	4965.0	4033.0	2728.5	1962.8	1709.3	1653.9
75°	568.3	631.9	852.5	1443.8	2674.7	3713.2	2546.4	1277.6	675.3	486.1	459.7
77.5°	143.2	165.1	227.7	413.1	1066.9	2114.2	960.5	337.3	183.8	128.3	114.7
80°	69.7	76.8	109.7	137.7	267.1	672.0	250.7	129.5	86.7	66.9	61.4
82.5°	38.4	38.9	62.0	77.9	99.3	173.9	103.1	75.7	49.9	40.6	40.6
85°	23.6	23.1	32.9	41.7	41.7	62.0	49.4	41.7	28.5	25.2	26.3
87.5°	9.3	9.3	12.1	13.1	11.5	15.9	12.6	13.7	11.0	10.5	11.0
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)