

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: P960892

Luminaire Tested: **NAV-SB1D-740-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960892
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-740-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11560 lumens
Efficiency: N/A
Efficacy: 145.2 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



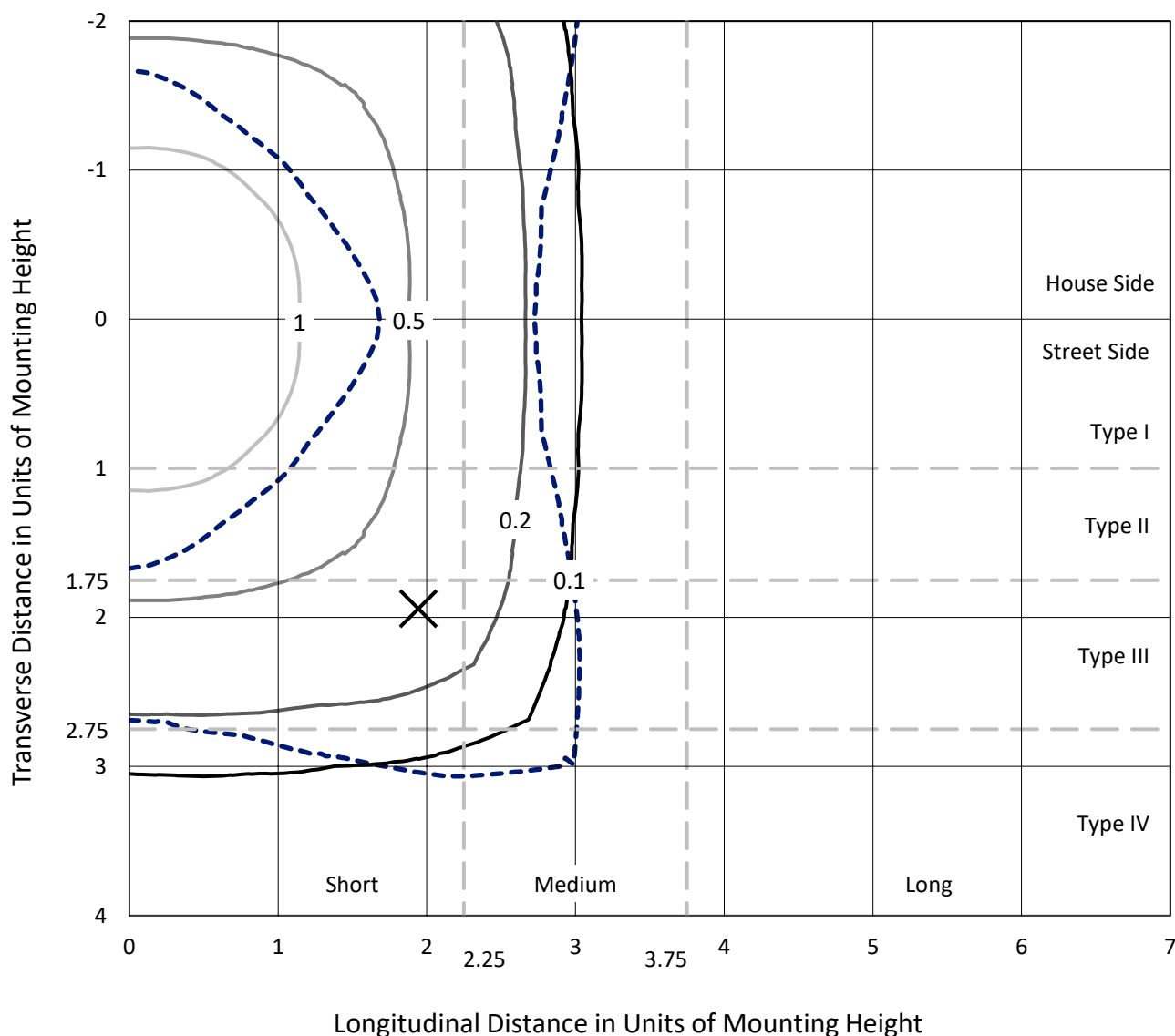
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

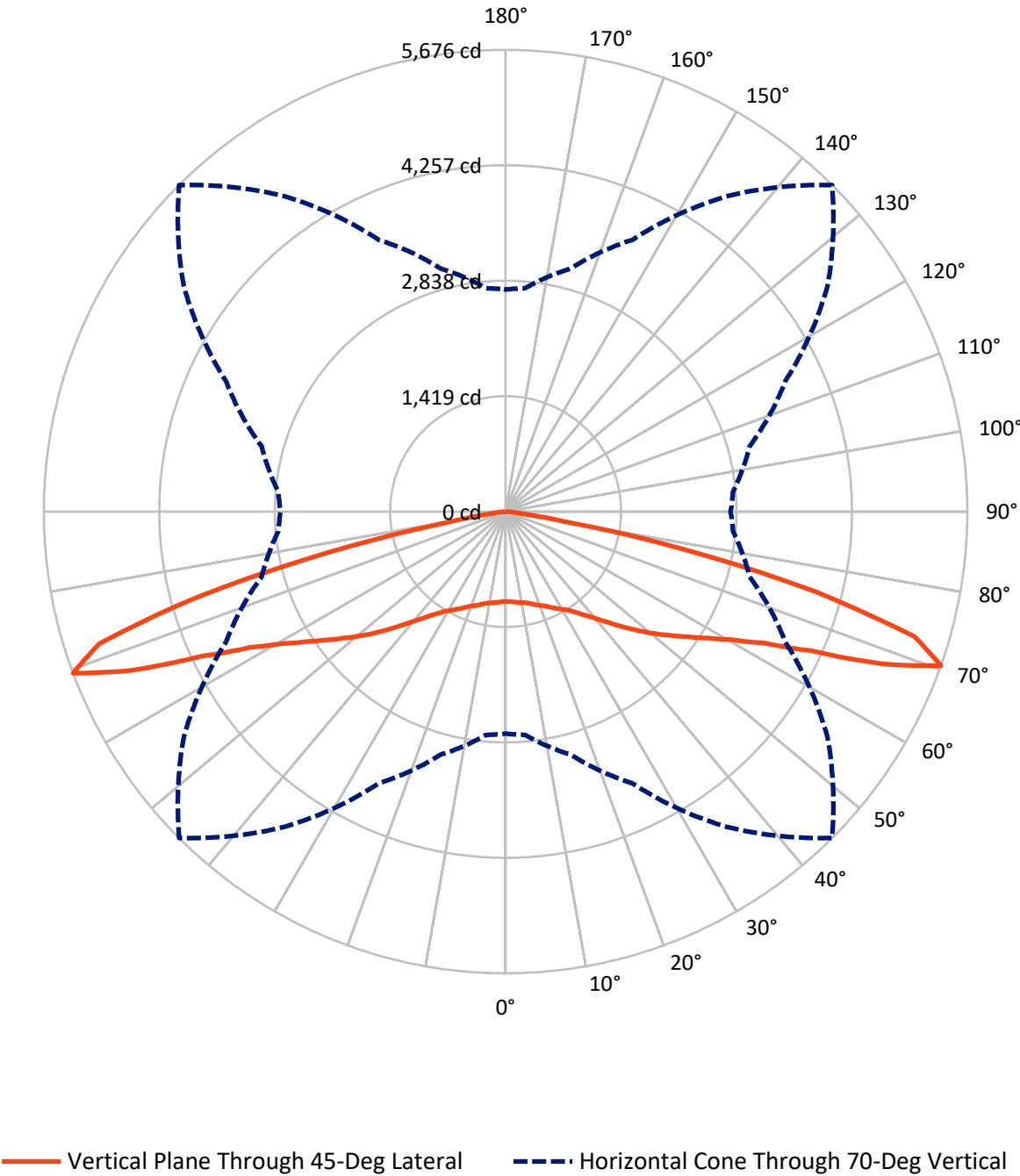


Based on 25 foot mounting height. Maximum calculated value = 1.8 fc

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	5780.0	0.0	5780.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5780.0	0.0	5780.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	11560.0	0.0	11560.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.6	0.9
10°-20°	333.6	2.9
20°-30°	596.2	5.2
30°-40°	966.4	8.4
40°-50°	1574.0	13.6
50°-60°	2399.9	20.8
60°-70°	3570.2	30.9
70°-80°	1945.9	16.8
80°-90°	66.3	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°	11560.0	100.0
0°-180°	11560.0	100.0

Coefficient of Utilization



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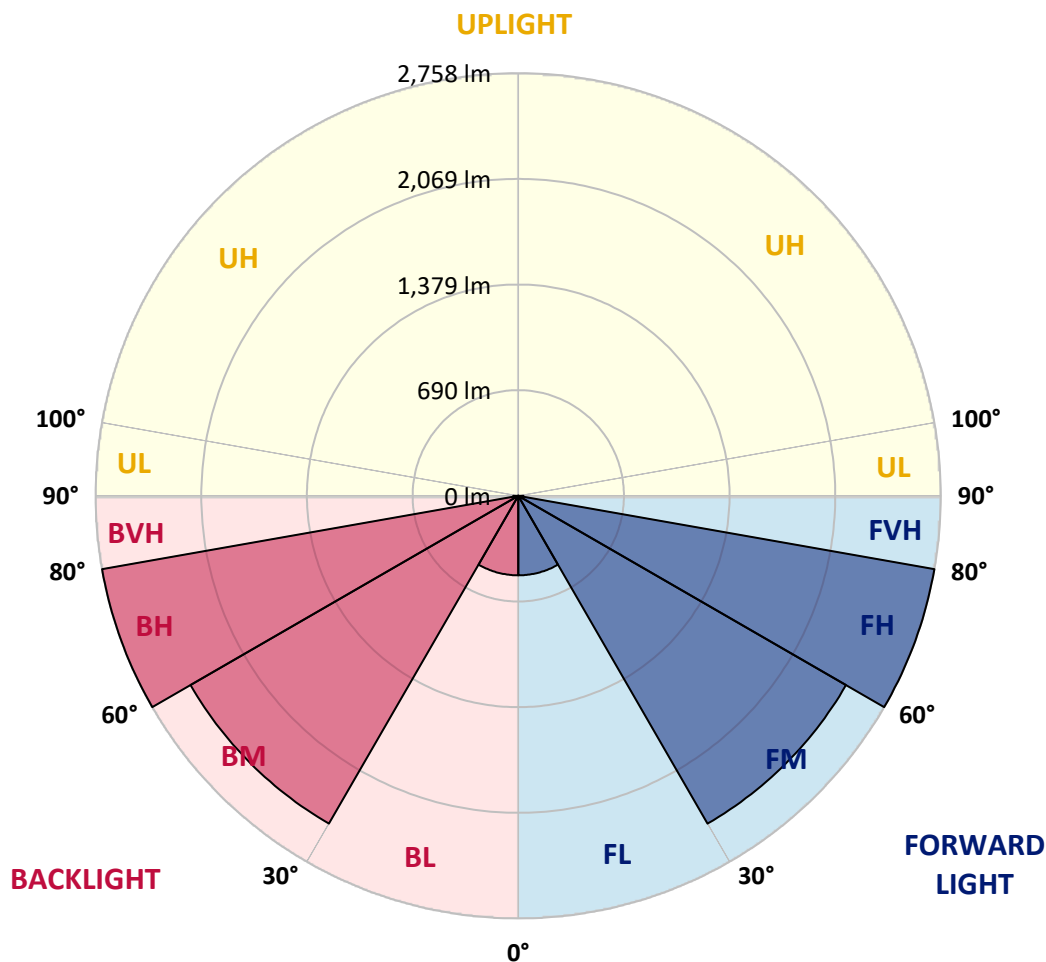
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	518.7	4.5			
FM	(30°-60°)	2470.1	21.4			
FH	(60°-80°)	2758.1	23.9			G2/5000
FVH	(80°-90°)	33.1	0.3			G1/100
BL	(0°-30°)	518.7	4.5	B2/1000		
BM	(30°-60°)	2470.1	21.4	B2/2500		
BH	(60°-80°)	2758.1	23.9	B4/5000		G2/5000
BVH	(80°-90°)	33.1	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°	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3
2.5°	1112.5	1113.7	1111.4	1110.2	1109.0	1107.3	1107.9	1110.8	1113.1	1112.5	1113.1
5°	1121.9	1123.0	1121.2	1120.6	1118.4	1117.8	1117.8	1120.6	1122.4	1121.2	1121.9
7.5°	1132.3	1134.1	1131.1	1130.6	1129.3	1128.2	1127.6	1130.6	1132.3	1132.3	1132.3
10°	1142.2	1143.9	1141.5	1139.8	1138.7	1138.7	1137.5	1139.8	1142.8	1142.2	1142.2
12.5°	1152.6	1153.7	1151.4	1150.3	1150.3	1152.0	1150.3	1151.4	1153.7	1152.6	1152.0
15°	1165.3	1165.9	1165.3	1167.1	1170.0	1175.8	1170.6	1169.4	1170.6	1167.7	1167.7
17.5°	1182.7	1184.0	1186.2	1190.3	1194.3	1204.8	1195.6	1192.6	1192.6	1186.8	1186.8
20°	1204.3	1206.0	1209.5	1216.5	1221.7	1231.5	1222.2	1218.2	1216.5	1208.9	1208.9
22.5°	1226.9	1229.8	1235.0	1244.2	1253.6	1262.9	1253.6	1246.6	1241.4	1231.5	1230.9
25°	1253.0	1256.4	1264.6	1279.7	1292.4	1305.8	1294.8	1280.8	1270.4	1256.4	1255.9
27.5°	1290.2	1294.2	1304.1	1322.7	1338.9	1350.5	1340.1	1322.0	1307.6	1290.7	1290.2
30°	1342.3	1346.4	1358.0	1377.8	1388.8	1396.4	1389.4	1375.4	1358.0	1338.9	1338.9
32.5°	1409.7	1414.9	1427.7	1446.3	1448.5	1449.8	1447.4	1440.4	1427.7	1404.5	1405.1
35°	1495.0	1500.8	1515.4	1530.4	1528.1	1530.4	1526.9	1524.6	1515.4	1488.6	1488.6
37.5°	1599.5	1606.5	1621.6	1633.1	1627.3	1624.4	1625.0	1625.5	1620.3	1590.8	1590.8
40°	1720.8	1730.1	1741.1	1753.3	1743.4	1734.7	1740.4	1745.2	1740.4	1710.3	1710.3
42.5°	1845.5	1858.8	1870.5	1887.9	1879.7	1868.8	1876.9	1882.1	1872.3	1839.8	1842.0
45°	1984.2	1997.0	2012.1	2038.2	2032.4	2020.8	2032.4	2033.6	2016.8	1978.5	1982.6
47.5°	2127.6	2140.9	2163.6	2198.4	2196.1	2183.4	2198.4	2190.3	2168.8	2123.0	2120.0
50°	2263.4	2282.0	2316.8	2365.5	2370.2	2354.5	2374.8	2359.1	2323.2	2265.8	2264.5
52.5°	2391.1	2410.8	2465.9	2532.1	2549.0	2528.6	2555.9	2528.6	2474.7	2401.0	2394.0
55°	2525.2	2547.2	2612.7	2699.2	2733.0	2717.8	2743.3	2702.1	2625.5	2536.2	2524.0
57.5°	2683.0	2696.4	2774.7	2877.4	2934.3	2937.8	2949.3	2879.7	2786.9	2685.3	2671.4
60°	2854.2	2872.8	2958.0	3081.1	3171.0	3200.0	3188.0	3084.6	2976.7	2860.0	2841.4
62.5°	3073.6	3093.9	3196.1	3343.4	3485.6	3557.6	3510.0	3360.3	3226.8	3086.9	3062.6
65°	3255.2	3277.8	3462.4	3725.4	3984.2	4128.7	4009.1	3733.5	3493.2	3295.9	3263.4
67.5°	3123.5	3151.4	3440.9	3923.8	4567.4	4998.6	4589.4	3983.0	3512.4	3244.7	3204.8
70°	2730.0	2756.1	3093.9	3684.2	4731.7	5676.4	4830.3	3792.6	3104.9	2805.4	2765.4
72.5°	1812.5	1896.7	2238.4	2946.5	4225.0	5252.8	4266.8	2886.7	2076.5	1808.4	1749.8
75°	601.3	668.6	901.9	1527.5	2829.8	3928.4	2694.0	1351.7	714.4	514.2	486.4
77.5°	151.5	174.7	240.9	437.1	1128.8	2236.7	1016.2	356.9	194.4	135.8	121.3
80°	73.7	81.3	116.0	145.7	282.6	710.9	265.3	136.9	91.7	70.8	65.0
82.5°	40.6	41.2	65.6	82.4	105.1	184.0	109.1	80.1	52.8	42.9	42.9
85°	24.9	24.4	34.8	44.1	44.1	65.6	52.3	44.1	30.1	26.6	27.9
87.5°	9.8	9.8	12.8	13.9	12.2	16.8	13.3	14.6	11.6	11.1	11.6
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)