

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: P960334

Luminaire Tested: **NAV-SB1C-735-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960334
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-SB1C-735-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8042.1 lumens
Efficiency: N/A
Efficacy: 147.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 54.4
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

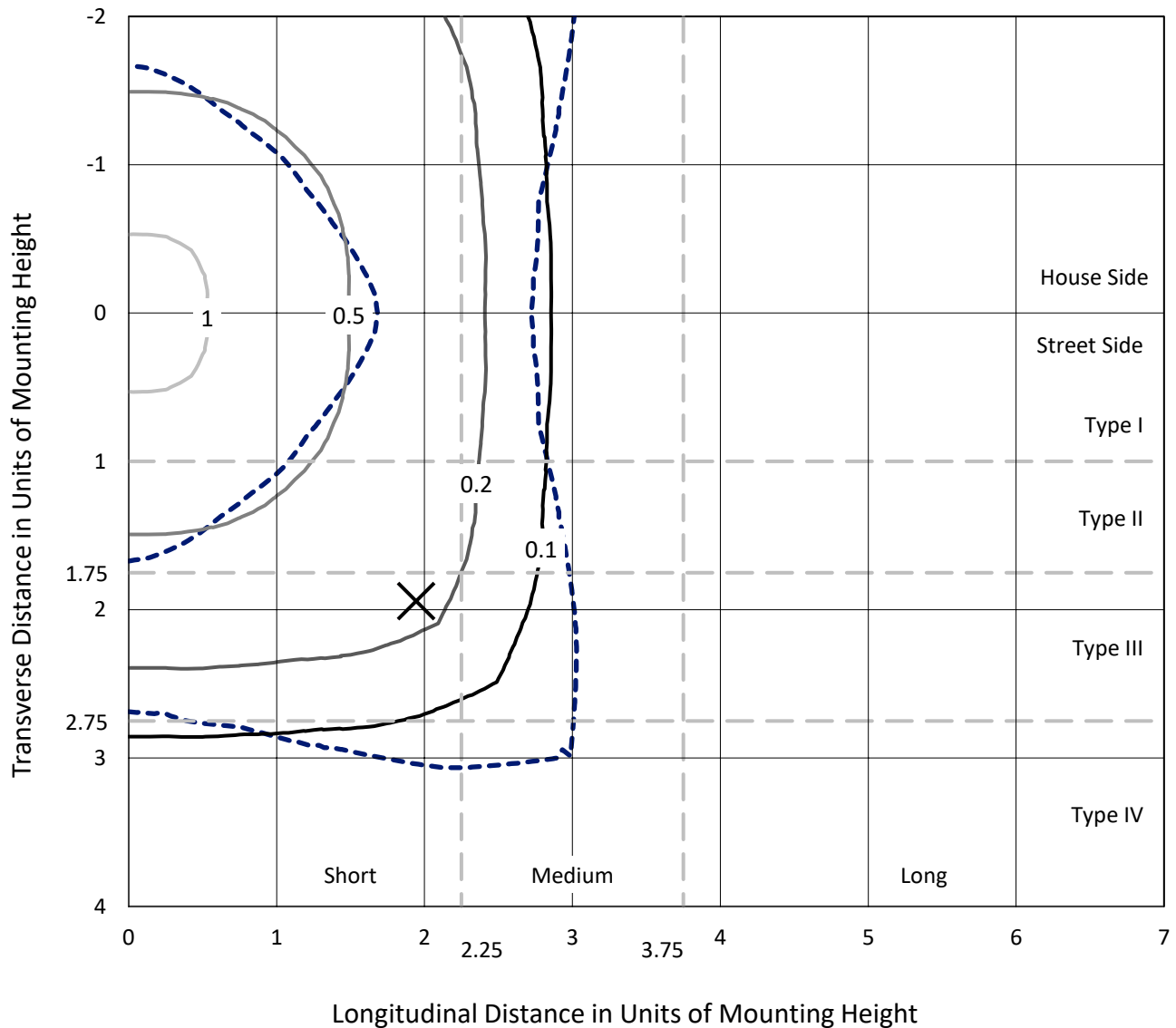


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

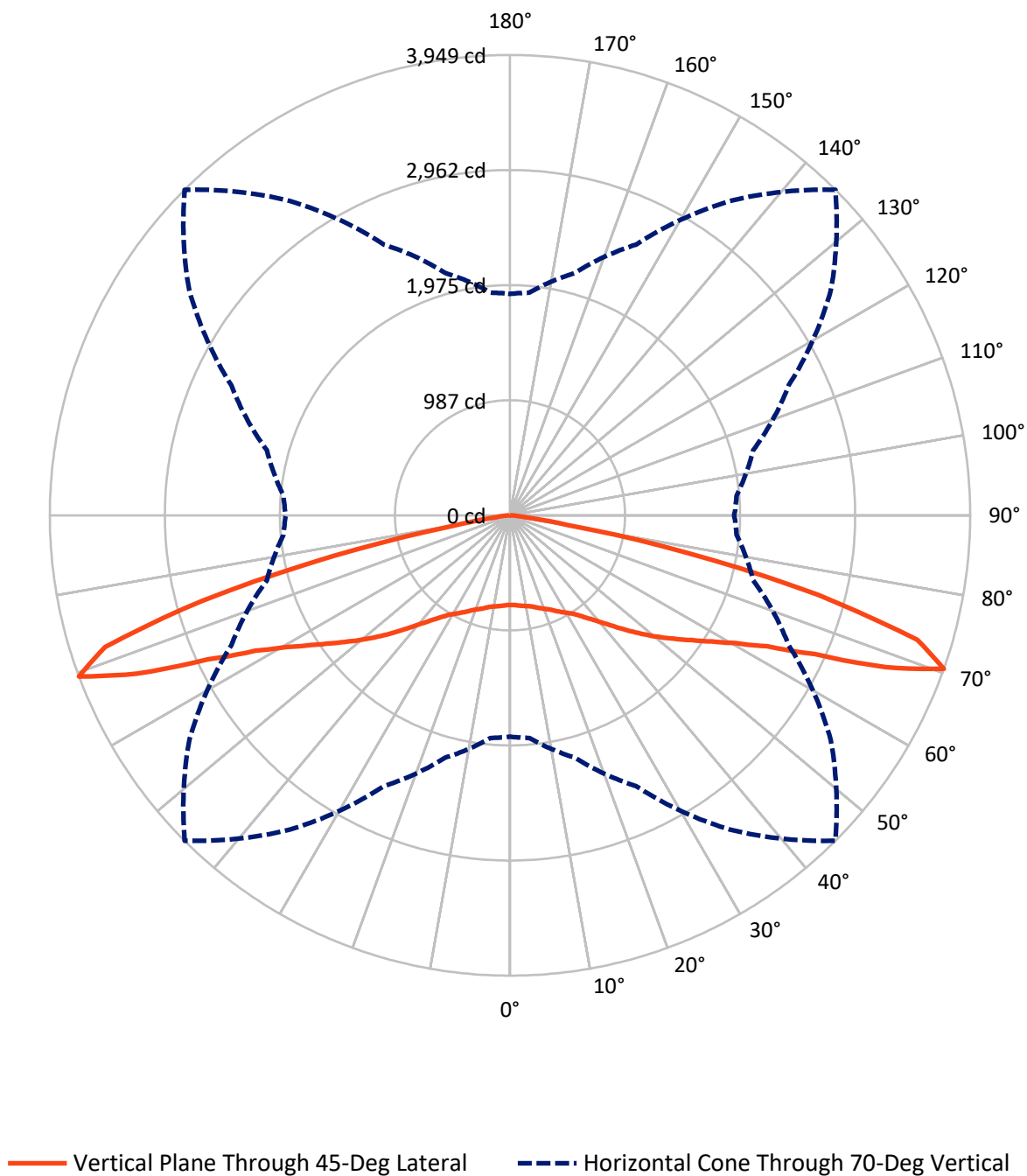


Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4021.1	0.0	4021.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4021.1	0.0	4021.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	8042.1	0.0	8042.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.8	0.9
10°-20°	232.1	2.9
20°-30°	414.7	5.2
30°-40°	672.3	8.4
40°-50°	1095.0	13.6
50°-60°	1669.5	20.8
60°-70°	2483.8	30.9
70°-80°	1353.7	16.8
80°-90°	46.1	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°	8042.1	100.0
0°-180°	8042.1	100.0

Coefficient of Utilization



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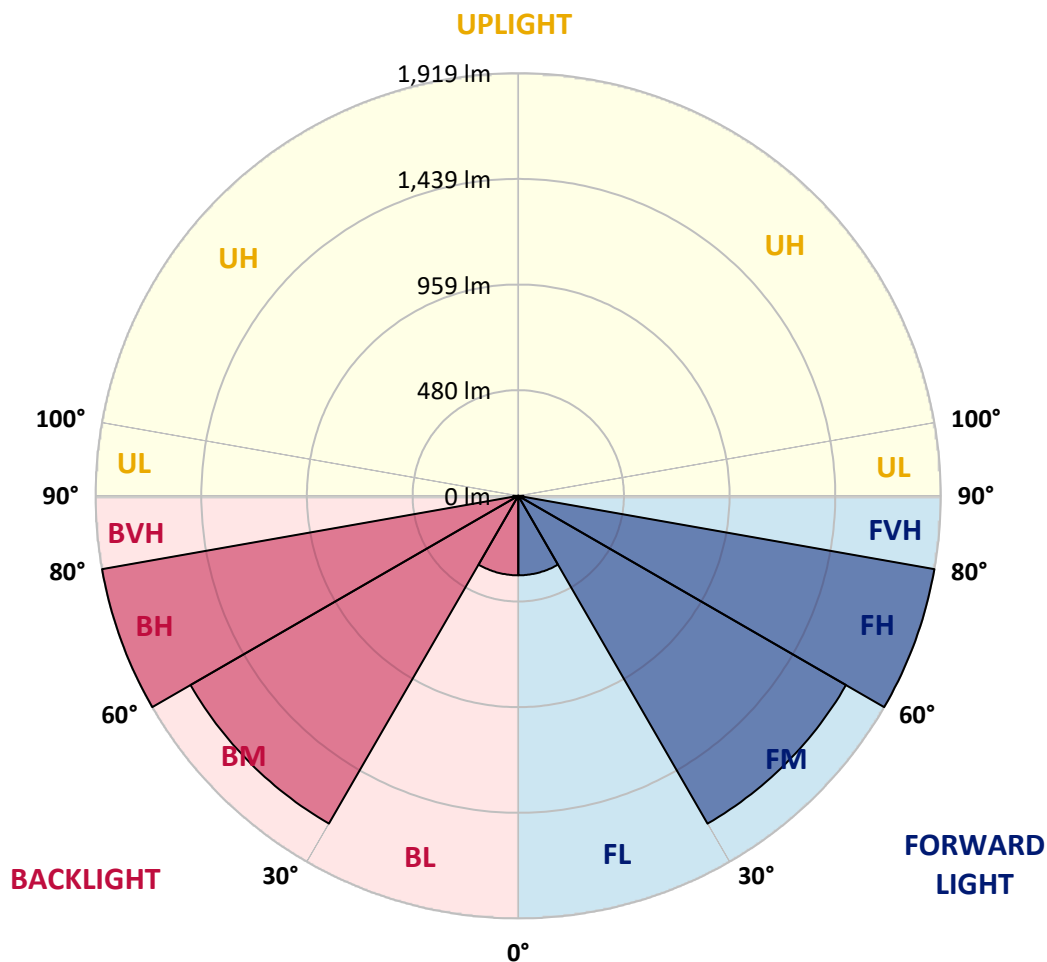
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	360.8	4.5			
FM	(30°-60°)	1718.4	21.4			
FH	(60°-80°)	1918.8	23.9			G2/5000
FVH	(80°-90°)	23.0	0.3			G1/100
BL	(0°-30°)	360.8	4.5	B1/500		
BM	(30°-60°)	1718.4	21.4	B2/2500		
BH	(60°-80°)	1918.8	23.9	B3/2500		G2/5000
BVH	(80°-90°)	23.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4
2.5°	774.0	774.8	773.2	772.3	771.5	770.4	770.8	772.7	774.4	774.0	774.4
5°	780.4	781.3	780.0	779.6	778.0	777.7	777.7	779.6	780.8	780.0	780.4
7.5°	787.7	788.9	786.9	786.5	785.7	784.8	784.5	786.5	787.7	787.7	787.7
10°	794.6	795.8	794.2	792.9	792.1	792.1	791.3	792.9	795.0	794.6	794.6
12.5°	801.9	802.7	801.0	800.2	800.2	801.4	800.2	801.0	802.7	801.9	801.4
15°	810.8	811.1	810.8	811.9	814.0	817.9	814.4	813.5	814.4	812.3	812.3
17.5°	822.9	823.7	825.2	828.1	831.0	838.1	831.7	829.7	829.7	825.6	825.6
20°	837.7	839.0	841.4	846.2	849.9	856.8	850.3	847.5	846.2	841.0	841.0
22.5°	853.5	855.6	859.2	865.6	872.1	878.5	872.1	867.3	863.7	856.8	856.4
25°	871.7	874.1	879.8	890.3	899.1	908.5	900.8	891.0	883.9	874.1	873.7
27.5°	897.5	900.4	907.2	920.1	931.4	939.5	932.2	919.7	909.7	897.9	897.5
30°	933.9	936.7	944.7	958.5	966.2	971.4	966.6	956.8	944.7	931.4	931.4
32.5°	980.7	984.3	993.2	1006.1	1007.8	1008.6	1007.0	1002.1	993.2	977.0	977.4
35°	1040.1	1044.1	1054.2	1064.7	1063.0	1064.7	1062.3	1060.7	1054.2	1035.7	1035.7
37.5°	1112.7	1117.6	1128.1	1136.1	1132.1	1130.1	1130.5	1130.9	1127.3	1106.7	1106.7
40°	1197.1	1203.6	1211.2	1219.8	1212.9	1206.8	1210.8	1214.1	1210.8	1189.8	1189.8
42.5°	1283.9	1293.2	1301.2	1313.4	1307.7	1300.1	1305.7	1309.3	1302.5	1279.9	1281.5
45°	1380.5	1389.3	1399.8	1418.0	1413.9	1405.9	1413.9	1414.7	1403.0	1376.4	1379.2
47.5°	1480.1	1489.4	1505.2	1529.4	1527.8	1518.9	1529.4	1523.8	1508.8	1476.9	1474.9
50°	1574.6	1587.5	1611.8	1645.6	1648.9	1638.1	1652.1	1641.2	1616.2	1576.2	1575.4
52.5°	1663.5	1677.2	1715.5	1761.6	1773.2	1759.1	1778.1	1759.1	1721.6	1670.3	1665.4
55°	1756.7	1772.0	1817.6	1877.8	1901.3	1890.7	1908.5	1879.8	1826.6	1764.4	1755.9
57.5°	1866.5	1875.9	1930.3	2001.8	2041.4	2043.7	2051.8	2003.4	1938.8	1868.2	1858.4
60°	1985.6	1998.5	2057.9	2143.5	2206.1	2226.3	2217.8	2145.9	2070.8	1989.7	1976.7
62.5°	2138.3	2152.4	2223.4	2326.0	2424.9	2475.0	2441.9	2337.7	2244.9	2147.6	2130.6
65°	2264.6	2280.4	2408.8	2591.7	2771.7	2872.3	2789.1	2597.4	2430.2	2292.9	2270.3
67.5°	2173.0	2192.4	2393.8	2729.8	3177.5	3477.5	3192.9	2771.0	2443.5	2257.4	2229.5
70°	1899.2	1917.4	2152.4	2563.0	3291.8	3949.1	3360.4	2638.6	2160.1	1951.7	1923.8
72.5°	1261.0	1319.5	1557.3	2049.8	2939.3	3654.3	2968.4	2008.3	1444.6	1258.1	1217.3
75°	418.3	465.1	627.4	1062.7	1968.7	2733.0	1874.2	940.3	497.0	357.7	338.4
77.5°	105.4	121.6	167.6	304.0	785.3	1556.1	706.9	248.3	135.3	94.5	84.4
80°	51.2	56.5	80.8	101.4	196.6	494.6	184.5	95.3	63.8	49.3	45.2
82.5°	28.3	28.7	45.6	57.3	73.1	128.0	76.0	55.8	36.7	29.8	29.8
85°	17.3	16.9	24.2	30.6	30.6	45.6	36.4	30.6	21.0	18.6	19.4
87.5°	6.9	6.9	8.9	9.7	8.5	11.7	9.3	10.0	8.1	7.7	8.1
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)