

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: P959838

Luminaire Tested: **NAV-SB1B-740-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959838
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-SB1B-740-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6397 lumens
Efficiency: N/A
Efficacy: 160.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

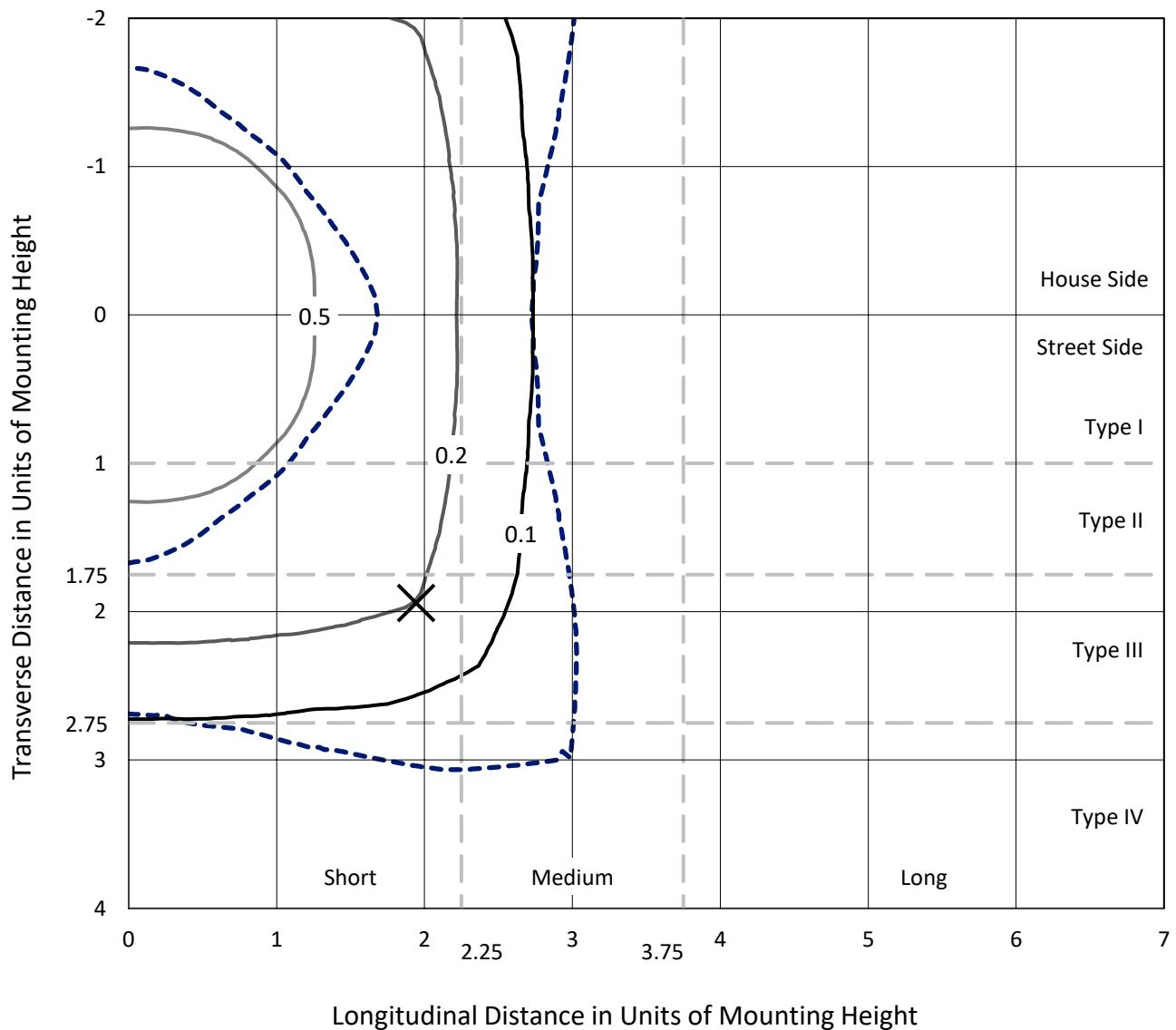
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

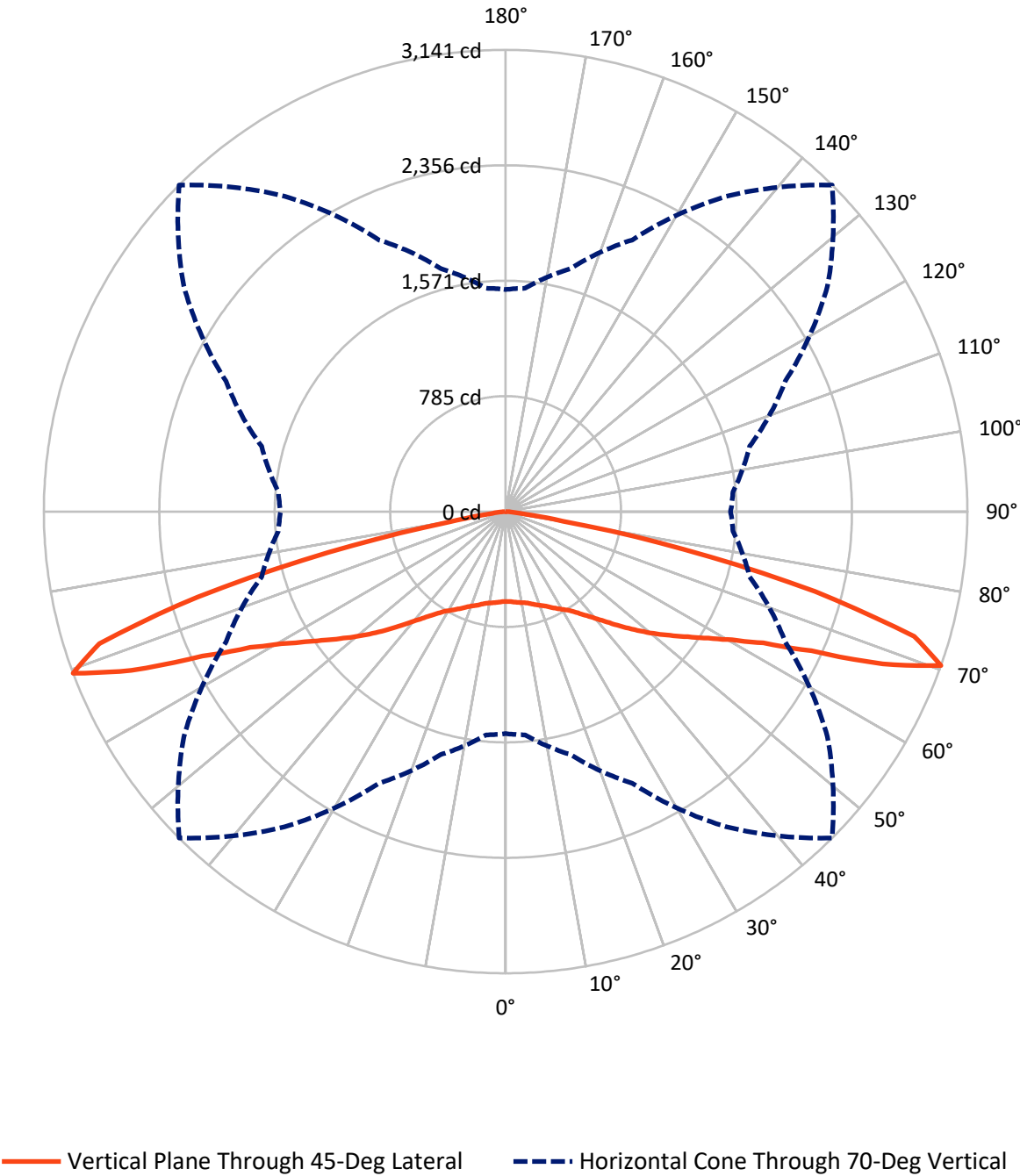
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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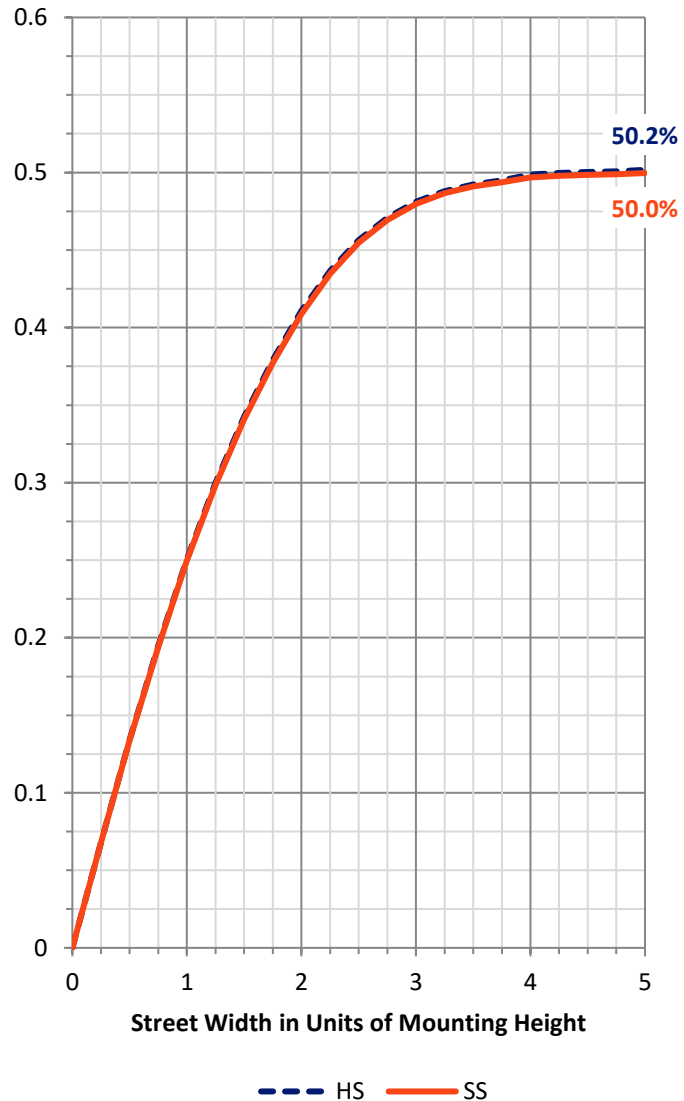
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3198.5	0.0	3198.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3198.5	0.0	3198.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6397.0	0.0	6397.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.5	0.9
10°-20°	184.6	2.9
20°-30°	329.9	5.2
30°-40°	534.8	8.4
40°-50°	871.0	13.6
50°-60°	1328.0	20.8
60°-70°	1975.7	30.9
70°-80°	1076.8	16.8
80°-90°	36.7	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°	6397.0	100.0
0°-180°	6397.0	100.0

Coefficient of Utilization



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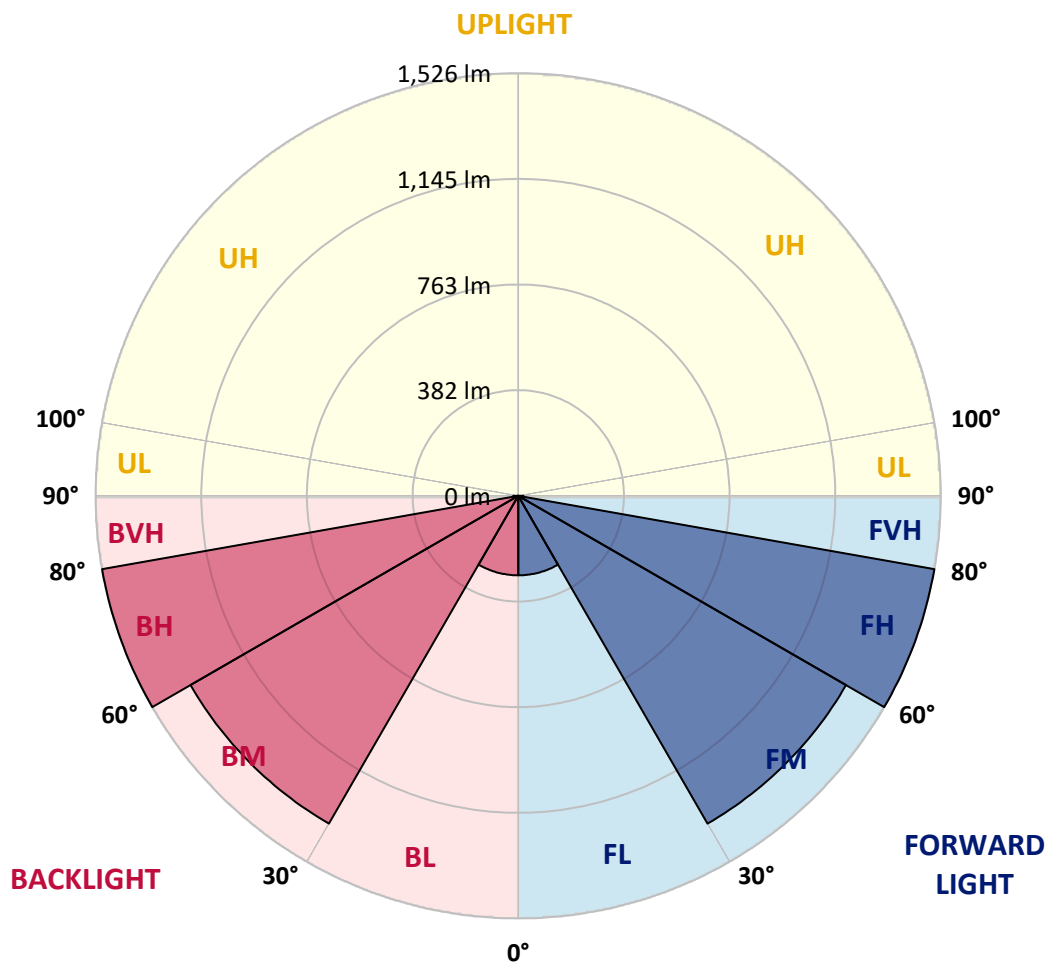
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	287.0	4.5			
FM	(30°-60°)	1366.9	21.4			
FH	(60°-80°)	1526.2	23.9			G1/1800
FVH	(80°-90°)	18.3	0.3			G1/100
BL	(0°-30°)	287.0	4.5	B1/500		
BM	(30°-60°)	1366.9	21.4	B2/2500		
BH	(60°-80°)	1526.2	23.9	B3/2500		G1/1800
BVH	(80°-90°)	18.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	612.7	612.7	612.7	612.7	612.7	612.7	612.7	612.7	612.7	612.7	612.7
2.5°	615.6	616.3	615.0	614.4	613.8	612.7	613.1	614.7	616.0	615.6	616.0
5°	620.8	621.5	620.4	620.1	618.9	618.6	618.6	620.1	621.2	620.4	620.8
7.5°	626.6	627.5	626.0	625.7	624.9	624.3	624.0	625.7	626.6	626.6	626.6
10°	632.0	633.0	631.7	630.8	630.1	630.1	629.5	630.8	632.3	632.0	632.0
12.5°	637.9	638.5	637.1	636.5	636.5	637.4	636.5	637.1	638.5	637.9	637.4
15°	644.9	645.2	644.9	645.9	647.5	650.7	647.8	647.1	647.8	646.2	646.2
17.5°	654.6	655.2	656.4	658.7	660.9	666.8	661.5	660.0	660.0	656.7	656.7
20°	666.4	667.4	669.3	673.1	676.0	681.5	676.4	674.1	673.1	669.0	669.0
22.5°	679.0	680.5	683.5	688.6	693.7	698.8	693.7	689.8	687.0	681.5	681.2
25°	693.4	695.3	699.8	708.2	715.2	722.6	716.5	708.8	703.0	695.3	694.9
27.5°	713.9	716.2	721.6	732.0	740.9	747.3	741.6	731.6	723.5	714.2	713.9
30°	742.8	745.1	751.5	762.4	768.5	772.7	768.9	761.2	751.5	740.9	740.9
32.5°	780.1	783.0	790.1	800.3	801.7	802.3	800.9	797.1	790.1	777.2	777.6
35°	827.3	830.6	838.6	846.9	845.6	846.9	845.0	843.7	838.6	823.8	823.8
37.5°	885.1	889.0	897.3	903.7	900.6	898.9	899.2	899.5	896.7	880.3	880.3
40°	952.2	957.4	963.5	970.3	964.7	959.9	963.2	965.8	963.2	946.5	946.5
42.5°	1021.3	1028.7	1035.0	1044.7	1040.3	1034.1	1038.6	1041.5	1036.1	1018.0	1019.4
45°	1098.1	1105.1	1113.5	1127.9	1124.7	1118.3	1124.7	1125.3	1116.0	1094.8	1097.1
47.5°	1177.3	1184.8	1197.3	1216.6	1215.2	1208.2	1216.6	1212.1	1200.2	1174.8	1173.2
50°	1252.6	1262.8	1282.1	1309.0	1311.6	1303.0	1314.2	1305.5	1285.6	1253.8	1253.2
52.5°	1323.2	1334.1	1364.6	1401.2	1410.5	1399.3	1414.4	1399.3	1369.4	1328.6	1324.8
55°	1397.4	1409.6	1445.9	1493.7	1512.3	1504.0	1518.1	1495.3	1452.9	1403.4	1396.7
57.5°	1484.7	1492.1	1535.4	1592.3	1623.8	1625.6	1632.1	1593.6	1542.2	1486.0	1478.3
60°	1579.4	1589.8	1636.9	1705.0	1754.8	1770.9	1764.1	1706.9	1647.2	1582.7	1572.4
62.5°	1700.9	1712.1	1768.6	1850.2	1928.8	1968.7	1942.4	1859.5	1785.7	1708.3	1694.7
65°	1801.3	1813.9	1916.0	2061.5	2204.8	2284.7	2218.5	2066.0	1933.0	1823.9	1805.8
67.5°	1728.5	1743.9	1904.1	2171.4	2527.5	2766.2	2539.7	2204.1	1943.6	1795.6	1773.5
70°	1510.7	1525.2	1712.1	2038.7	2618.4	3141.2	2673.0	2098.8	1718.2	1552.5	1530.3
72.5°	1003.0	1049.5	1238.7	1630.5	2338.0	2906.8	2361.2	1597.5	1149.1	1000.7	968.3
75°	332.7	369.9	499.1	845.3	1566.0	2173.9	1490.9	747.9	395.3	284.5	269.2
77.5°	83.8	96.7	133.2	241.8	624.6	1237.8	562.3	197.5	107.6	75.1	67.1
80°	40.8	45.0	64.3	80.6	156.4	393.4	146.8	75.7	50.7	39.2	36.0
82.5°	22.4	22.8	36.3	45.6	58.1	101.8	60.4	44.3	29.2	23.8	23.8
85°	13.8	13.5	19.3	24.4	24.4	36.3	28.9	24.4	16.7	14.8	15.4
87.5°	5.4	5.4	7.1	7.7	6.8	9.3	7.4	8.0	6.5	6.1	6.5
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)