

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: P959807

Luminaire Tested: **NAV-SB1B-735-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959807
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-735-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6046.5 lumens
Efficiency: N/A
Efficacy: 151.9 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

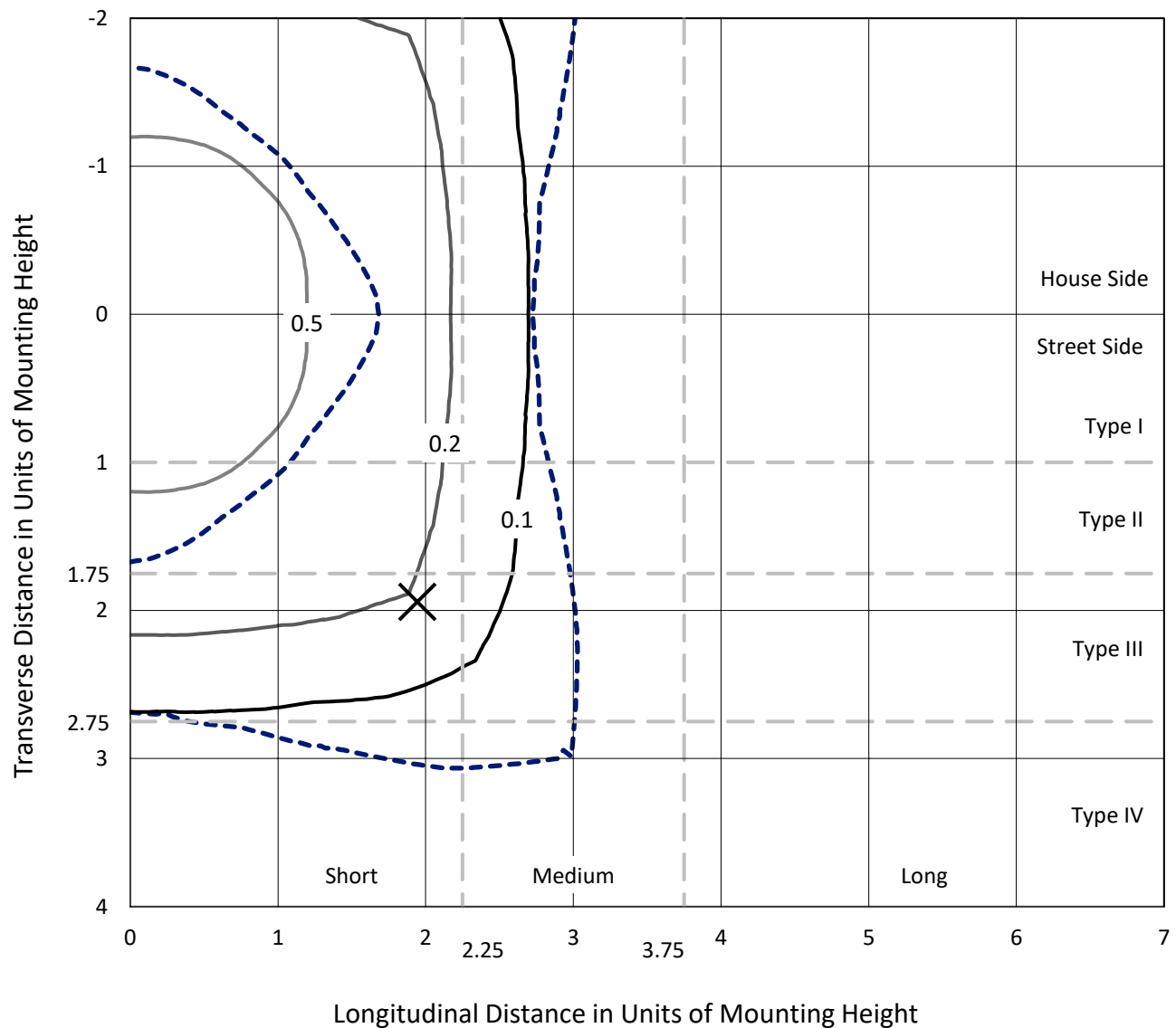


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Iso-Footcandle Lines of Horizontal Illumination

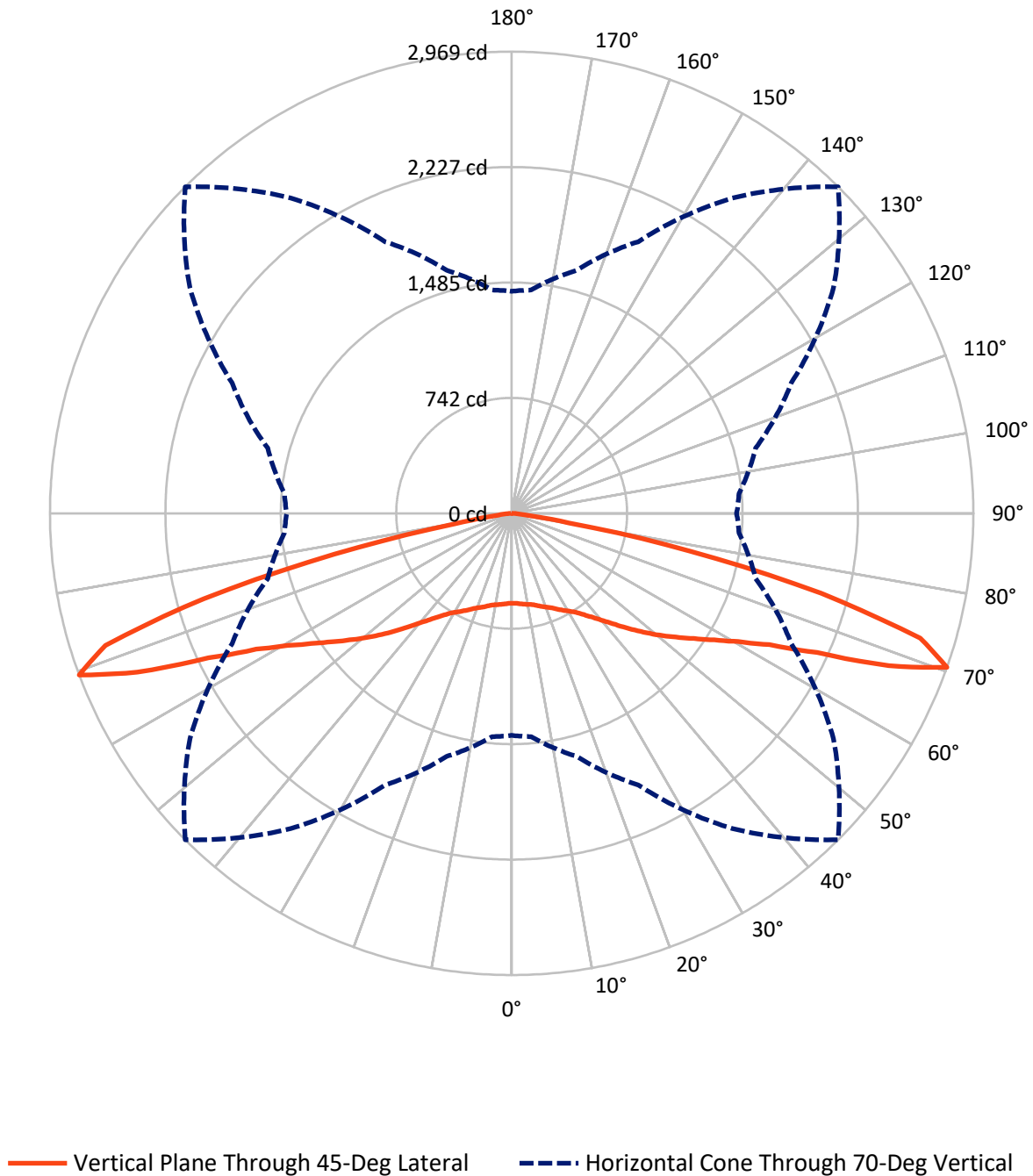
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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	3023.2	0.0	3023.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3023.2	0.0	3023.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	6046.5	0.0	6046.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.3	0.9
10°-20°	174.5	2.9
20°-30°	311.8	5.2
30°-40°	505.5	8.4
40°-50°	823.3	13.6
50°-60°	1255.3	20.8
60°-70°	1867.4	30.9
70°-80°	1017.8	16.8
80°-90°	34.7	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°	6046.5	100.0
0°-180°	6046.5	100.0

Coefficient of Utilization



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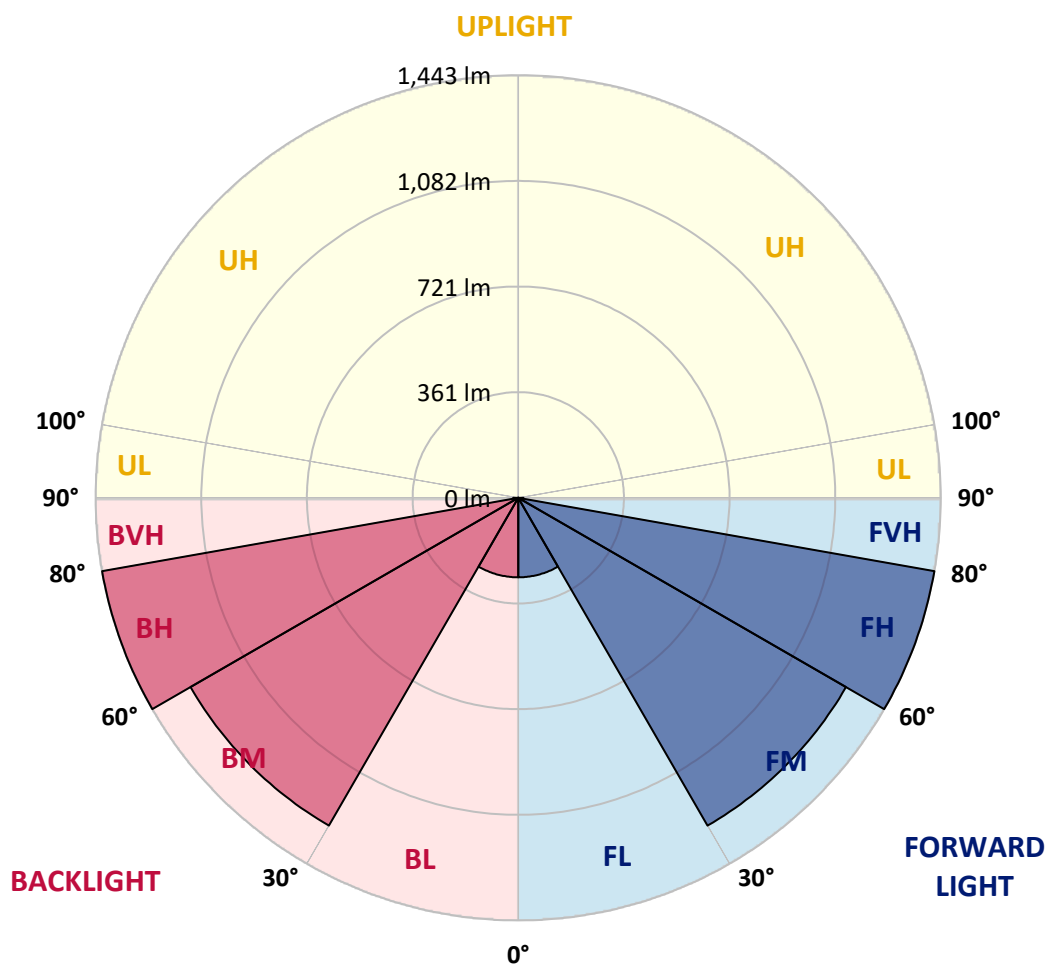
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	271.3	4.5			
FM	(30°-60°)	1292.0	21.4			
FH	(60°-80°)	1442.6	23.9			G1/1800
FVH	(80°-90°)	17.3	0.3			G1/100
BL	(0°-30°)	271.3	4.5	B1/500		
BM	(30°-60°)	1292.0	21.4	B2/2500		
BH	(60°-80°)	1442.6	23.9	B3/2500		G1/1800
BVH	(80°-90°)	17.3	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°	579.2	579.2	579.2	579.2	579.2	579.2	579.2	579.2	579.2	579.2	579.2
2.5°	581.9	582.5	581.3	580.7	580.2	579.2	579.5	581.0	582.2	581.9	582.2
5°	586.8	587.4	586.5	586.2	585.0	584.7	584.7	586.2	587.1	586.5	586.8
7.5°	592.2	593.2	591.6	591.3	590.7	590.1	589.8	591.3	592.2	592.2	592.2
10°	597.4	598.3	597.1	596.1	595.6	595.6	595.0	596.1	597.7	597.4	597.4
12.5°	602.9	603.5	602.3	601.7	601.7	602.6	601.7	602.3	603.5	602.9	602.6
15°	609.6	609.9	609.6	610.5	611.9	615.0	612.2	611.7	612.2	610.8	610.8
17.5°	618.7	619.3	620.4	622.6	624.7	630.2	625.4	623.8	623.8	620.7	620.7
20°	629.9	630.8	632.6	636.2	639.0	644.1	639.3	637.1	636.2	632.3	632.3
22.5°	641.8	643.3	646.0	650.9	655.7	660.5	655.7	652.0	649.3	644.1	643.8
25°	655.4	657.2	661.4	669.3	676.0	683.0	677.2	669.9	664.5	657.2	656.9
27.5°	674.9	676.9	682.1	691.8	700.3	706.4	700.9	691.5	683.9	675.1	674.9
30°	702.1	704.3	710.3	720.7	726.4	730.3	726.7	719.4	710.3	700.3	700.3
32.5°	737.4	740.0	746.7	756.4	757.7	758.3	757.1	753.5	746.7	734.6	734.9
35°	782.0	785.0	792.6	800.5	799.3	800.5	798.7	797.4	792.6	778.6	778.6
37.5°	836.6	840.3	848.2	854.2	851.2	849.6	849.9	850.2	847.6	832.1	832.1
40°	900.1	904.9	910.7	917.1	911.8	907.3	910.4	912.8	910.4	894.6	894.6
42.5°	965.3	972.3	978.4	987.5	983.2	977.4	981.7	984.4	979.3	962.3	963.5
45°	1037.9	1044.6	1052.5	1066.1	1063.0	1057.0	1063.0	1063.6	1054.8	1034.8	1037.0
47.5°	1112.8	1119.8	1131.7	1149.8	1148.6	1142.0	1149.8	1145.6	1134.4	1110.4	1108.9
50°	1183.9	1193.6	1211.8	1237.3	1239.7	1231.5	1242.2	1234.0	1215.1	1185.1	1184.5
52.5°	1250.7	1261.0	1289.9	1324.4	1333.2	1322.6	1336.9	1322.6	1294.4	1255.8	1252.1
55°	1320.8	1332.3	1366.6	1411.8	1429.5	1421.6	1434.9	1413.4	1373.3	1326.6	1320.2
57.5°	1403.3	1410.3	1451.3	1505.0	1534.8	1536.6	1542.7	1506.2	1457.7	1404.6	1397.3
60°	1492.9	1502.6	1547.2	1611.6	1658.7	1673.8	1667.5	1613.5	1557.0	1496.0	1486.2
62.5°	1607.6	1618.3	1671.7	1748.8	1823.2	1860.8	1835.9	1757.6	1687.8	1614.6	1601.9
65°	1702.6	1714.5	1811.1	1948.5	2083.9	2159.5	2096.9	1952.8	1827.2	1723.9	1706.9
67.5°	1633.7	1648.3	1799.8	2052.4	2389.0	2614.6	2400.5	2083.3	1837.1	1697.2	1676.3
70°	1427.9	1441.6	1618.3	1927.0	2474.9	2969.1	2526.5	1983.8	1624.0	1467.4	1446.5
72.5°	948.0	992.0	1170.9	1541.2	2209.9	2747.5	2231.7	1509.9	1086.1	945.9	915.2
75°	314.5	349.7	471.7	799.0	1480.2	2054.8	1409.2	706.9	373.7	269.0	254.4
77.5°	79.2	91.3	126.0	228.6	590.4	1169.9	531.6	186.7	101.7	71.0	63.4
80°	38.5	42.5	60.7	76.2	147.8	371.9	138.7	71.6	48.0	37.0	34.0
82.5°	21.2	21.5	34.3	43.2	54.9	96.2	57.1	41.9	27.7	22.4	22.4
85°	13.0	12.7	18.2	23.1	23.1	34.3	27.4	23.1	15.8	13.9	14.6
87.5°	5.1	5.1	6.7	7.3	6.4	8.8	7.0	7.6	6.0	5.7	6.0
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)