

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: P881735

Luminaire Tested: **NAV-SB1B-740-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881735
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-740-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6011 lumens
Efficiency: N/A
Efficacy: 151.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

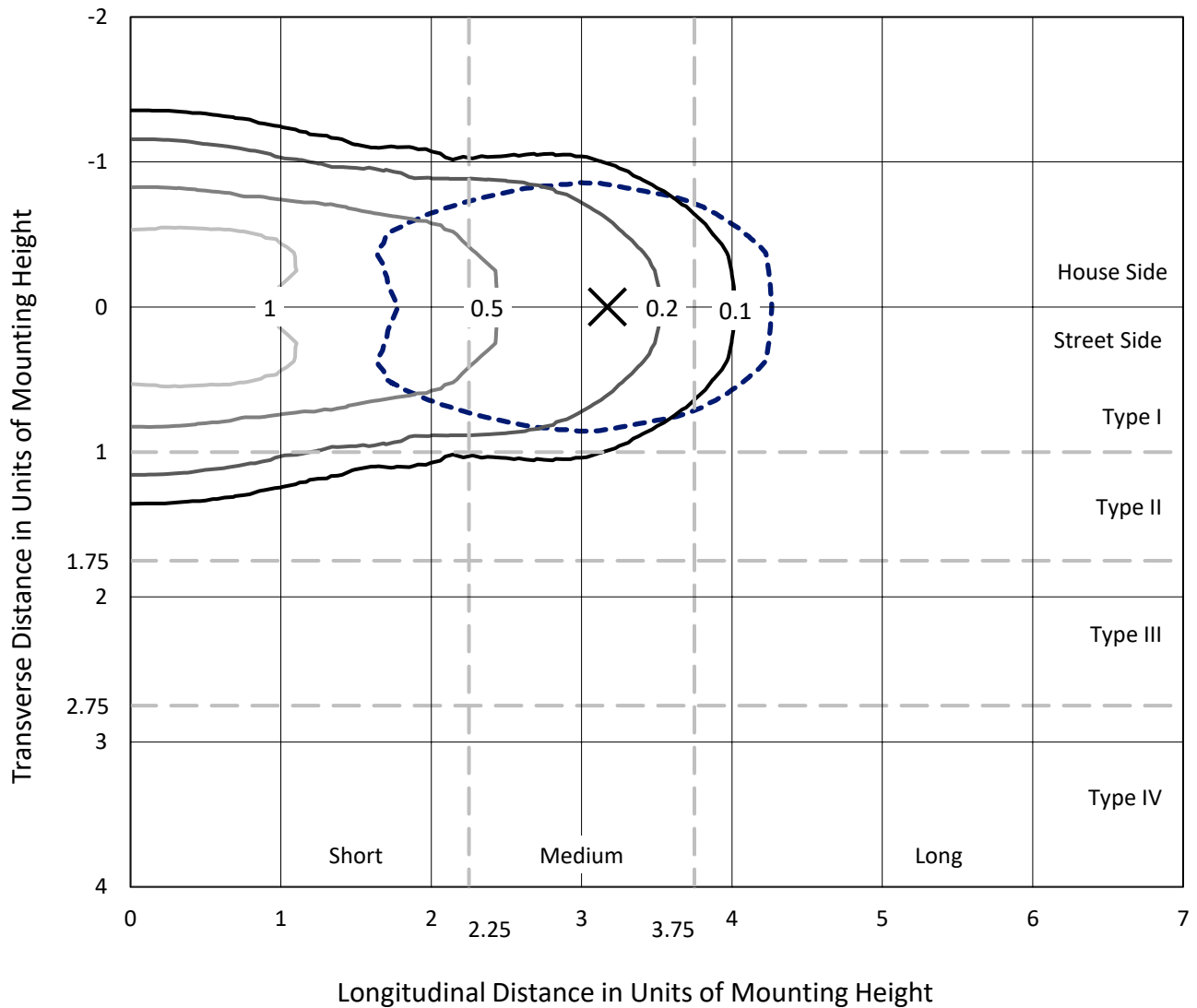
Input Watts (W): 39.8
Input Voltage (V): 120.0
Input Current (Ain): 0.33
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.305
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

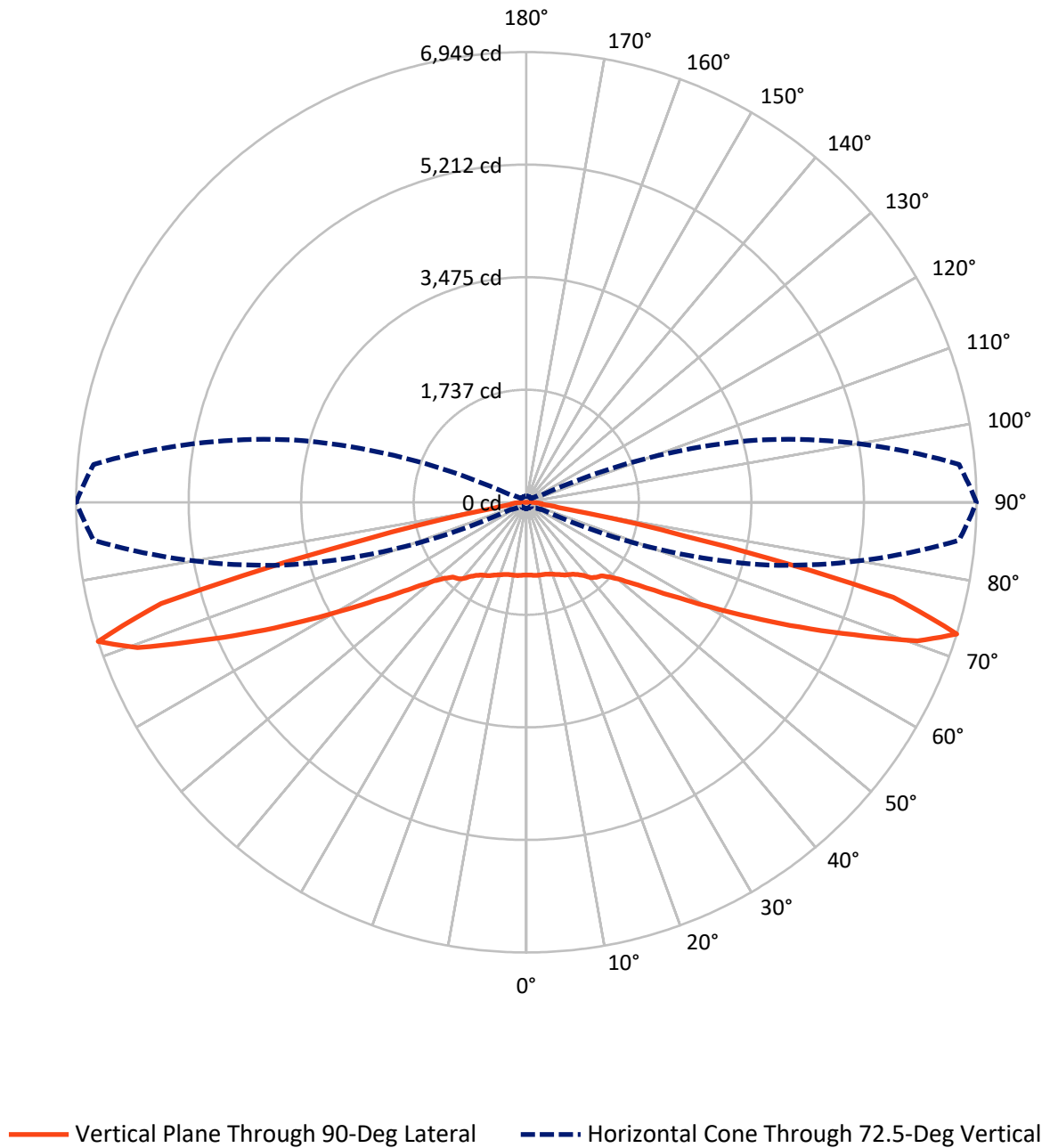
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3005.5	0.0	3005.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3005.5	0.0	3005.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6011.0	0.0	6011.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.9	1.8
10°-20°	333.0	5.5
20°-30°	555.3	9.2
30°-40°	763.6	12.7
40°-50°	932.6	15.5
50°-60°	1078.7	17.9
60°-70°	1286.1	21.4
70°-80°	897.6	14.9
80°-90°	55.1	0.9
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°	6011.0	100.0
0°-180°	6011.0	100.0

Coefficient of Utilization



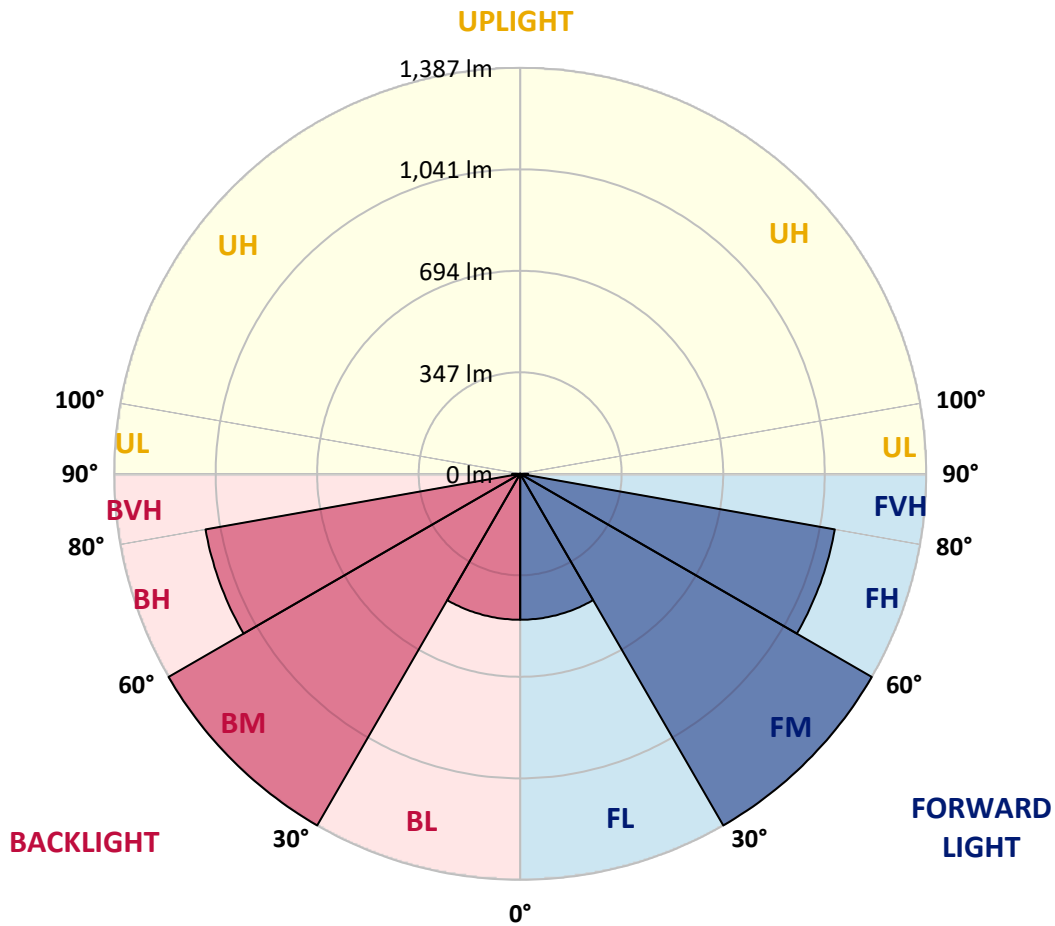
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	498.6	8.3			
FM (30°-60°)	1387.5	23.1			
FH (60°-80°)	1091.9	18.2			G1/1800
FVH (80°-90°)	27.6	0.5			G1/100
BL (0°-30°)	498.6	8.3	B1/500		
BM (30°-60°)	1387.5	23.1	B2/2500		
BH (60°-80°)	1091.9	18.2	B3/2500		G3/2500
BVH (80°-90°)	27.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1123.2	1123.2	1123.2	1123.2	1123.2	1123.2	1123.2	1123.2	1123.2	1123.2	1123.2
2.5°	1124.2	1125.5	1125.5	1124.5	1126.7	1124.8	1124.8	1123.9	1124.8	1123.9	1123.9
5°	1129.9	1131.5	1132.2	1131.8	1134.7	1133.1	1133.1	1131.8	1132.2	1131.2	1131.2
7.5°	1140.8	1143.0	1144.3	1145.9	1150.1	1148.1	1146.9	1143.0	1141.4	1138.9	1138.9
10°	1144.3	1146.9	1151.0	1159.3	1168.9	1169.2	1165.4	1155.8	1148.5	1142.7	1141.7
12.5°	1133.4	1137.0	1145.6	1162.5	1183.9	1192.5	1186.5	1170.5	1156.1	1145.9	1144.3
15°	1119.7	1123.5	1136.6	1162.2	1193.8	1213.9	1213.3	1192.2	1169.2	1153.2	1150.7
17.5°	1098.3	1102.1	1121.0	1156.8	1201.5	1234.7	1243.7	1221.9	1189.7	1168.3	1164.7
20°	1059.6	1063.2	1089.4	1139.5	1204.0	1256.8	1280.1	1260.9	1220.7	1191.6	1186.2
22.5°	1009.5	1014.9	1045.6	1109.8	1198.0	1279.8	1321.6	1308.5	1256.8	1216.5	1209.2
25°	955.8	961.6	997.4	1073.4	1182.3	1296.4	1370.8	1362.5	1297.6	1247.5	1237.3
27.5°	909.5	915.6	954.5	1037.3	1158.0	1302.8	1419.4	1423.5	1347.2	1281.7	1270.8
30°	873.1	878.8	920.4	1008.2	1126.7	1296.4	1461.8	1490.6	1397.6	1311.4	1295.7
32.5°	833.1	840.5	884.3	972.8	1089.7	1281.0	1498.9	1563.1	1456.1	1343.3	1323.5
35°	782.7	789.4	835.4	924.2	1041.1	1256.4	1529.9	1643.6	1539.8	1391.9	1369.8
37.5°	721.3	727.7	773.4	863.5	992.9	1221.9	1553.5	1734.3	1639.5	1461.8	1432.5
40°	659.7	665.8	708.6	795.8	935.1	1177.8	1561.8	1823.2	1753.8	1558.0	1526.7
42.5°	603.1	608.6	647.9	729.0	870.2	1121.6	1551.0	1900.5	1856.4	1625.1	1584.8
45°	551.1	555.9	590.7	666.4	802.8	1053.3	1518.4	1983.5	1978.4	1673.0	1618.7
47.5°	491.6	496.4	532.5	605.7	735.4	973.1	1463.1	2065.3	2148.0	1781.6	1719.0
50°	419.1	423.3	460.3	535.7	665.4	887.8	1386.5	2129.5	2362.1	1946.1	1867.6
52.5°	333.2	337.7	373.8	449.2	582.4	796.1	1285.5	2171.4	2609.3	2186.4	2089.6
55°	247.9	251.1	282.4	350.1	479.5	691.6	1159.0	2183.2	2889.8	2514.8	2393.7
57.5°	179.9	181.8	201.9	252.4	363.5	561.0	1005.3	2152.5	3223.7	2935.8	2783.4
60°	145.7	146.3	152.4	174.7	252.7	413.4	819.7	2047.1	3585.9	3478.6	3286.6
62.5°	132.3	132.3	133.9	139.9	170.9	272.8	595.2	1828.6	3974.4	4164.5	3907.3
65°	123.0	123.0	123.6	126.5	134.8	173.8	375.7	1472.7	4301.8	4967.9	4642.7
67.5°	114.7	115.0	114.7	115.6	120.4	128.4	217.9	1017.2	4478.2	5800.4	5449.3
70°	106.1	106.7	105.1	105.1	108.9	109.3	136.4	557.8	4331.9	6498.1	6405.8
72.5°	95.8	96.8	94.2	93.6	96.5	95.2	102.5	267.7	3719.1	6706.4	6949.2
75°	86.9	88.2	82.4	80.8	80.8	79.9	83.4	137.4	2413.8	5470.7	5851.5
77.5°	78.9	81.5	72.2	67.1	65.8	62.9	68.0	84.0	1055.8	2568.5	2515.1
80°	65.2	68.7	59.4	53.3	51.1	47.9	53.7	58.8	314.0	596.4	571.2
82.5°	48.6	50.2	42.2	38.0	36.1	33.9	40.3	40.9	102.2	211.2	238.6
85°	31.0	31.6	25.9	22.4	21.4	20.4	25.6	22.4	39.0	155.3	225.5
87.5°	10.9	12.5	9.9	8.9	9.6	8.0	11.8	6.7	10.9	109.6	135.8
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)