

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: P881955

Luminaire Tested: **NAV-SB1C-835-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P881955  
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-SB1C-835-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

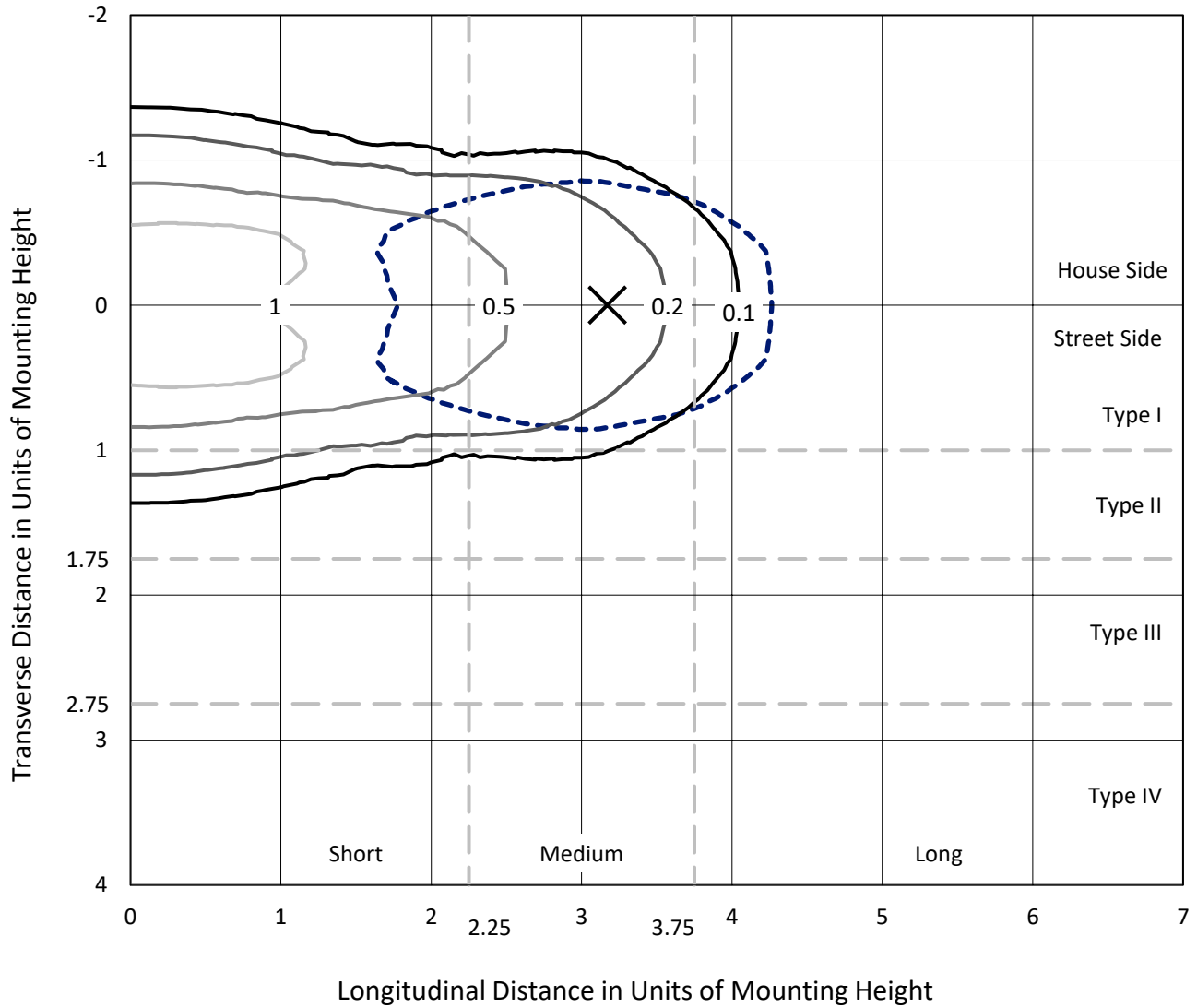
Lumens per Lamp: N/A  
Luminaire Lumens: 6256 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 54.4  
Input Voltage (V): 120.0  
Input Current (Ain): 0.437  
Voltage Rise (V): NR  
Power Factor: 0.993  
Total Harmonic Distortion (THDi): 9.314  
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

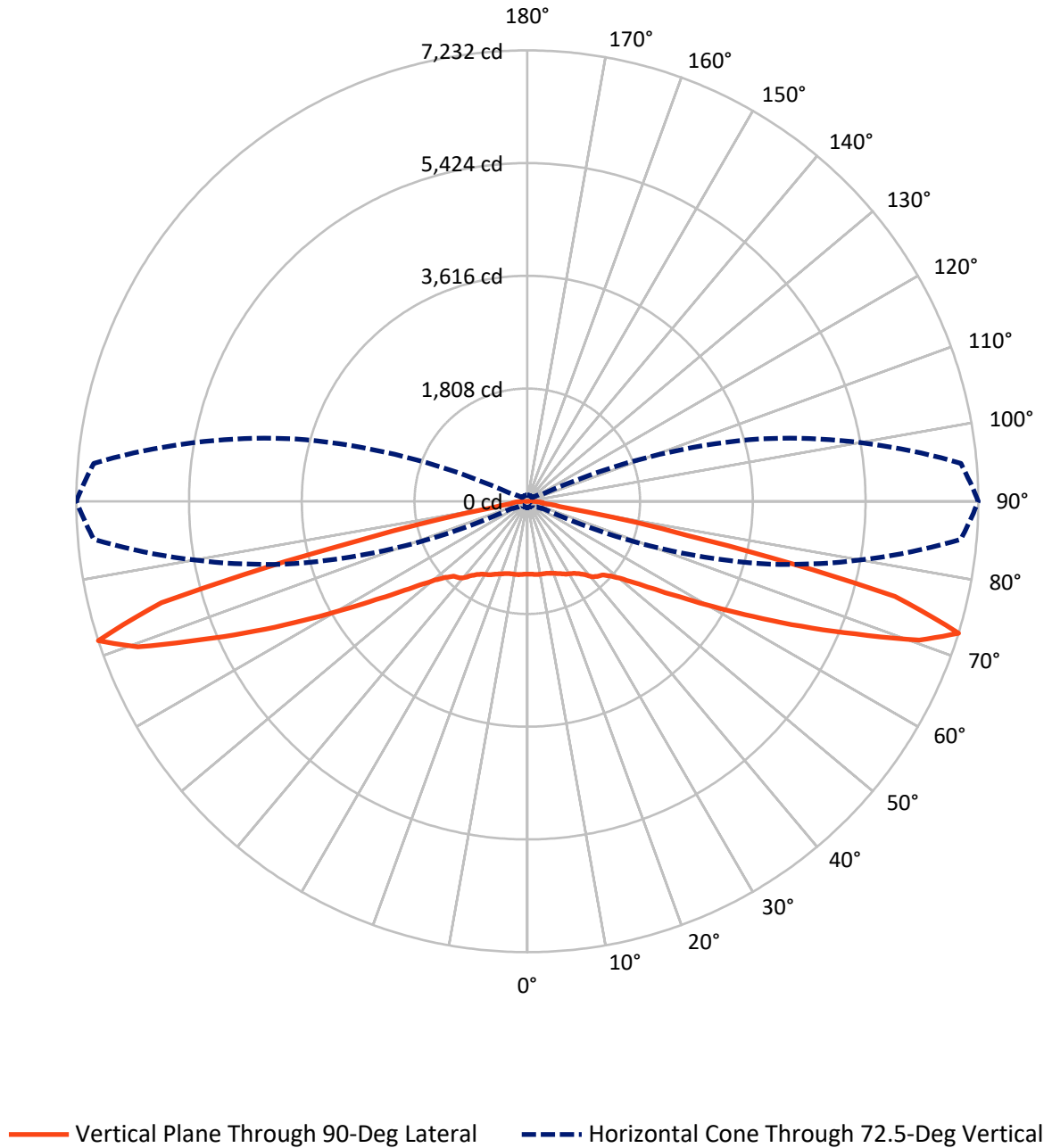
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3128.0	0.0	3128.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3128.0	0.0	3128.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6256.0	0.0	6256.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.3	1.8
10°-20°	346.6	5.5
20°-30°	577.9	9.2
30°-40°	794.8	12.7
40°-50°	970.6	15.5
50°-60°	1122.6	17.9
60°-70°	1338.6	21.4
70°-80°	934.2	14.9
80°-90°	57.4	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°	6256.0	100.0
0°-180°	6256.0	100.0

**Coefficient of Utilization**



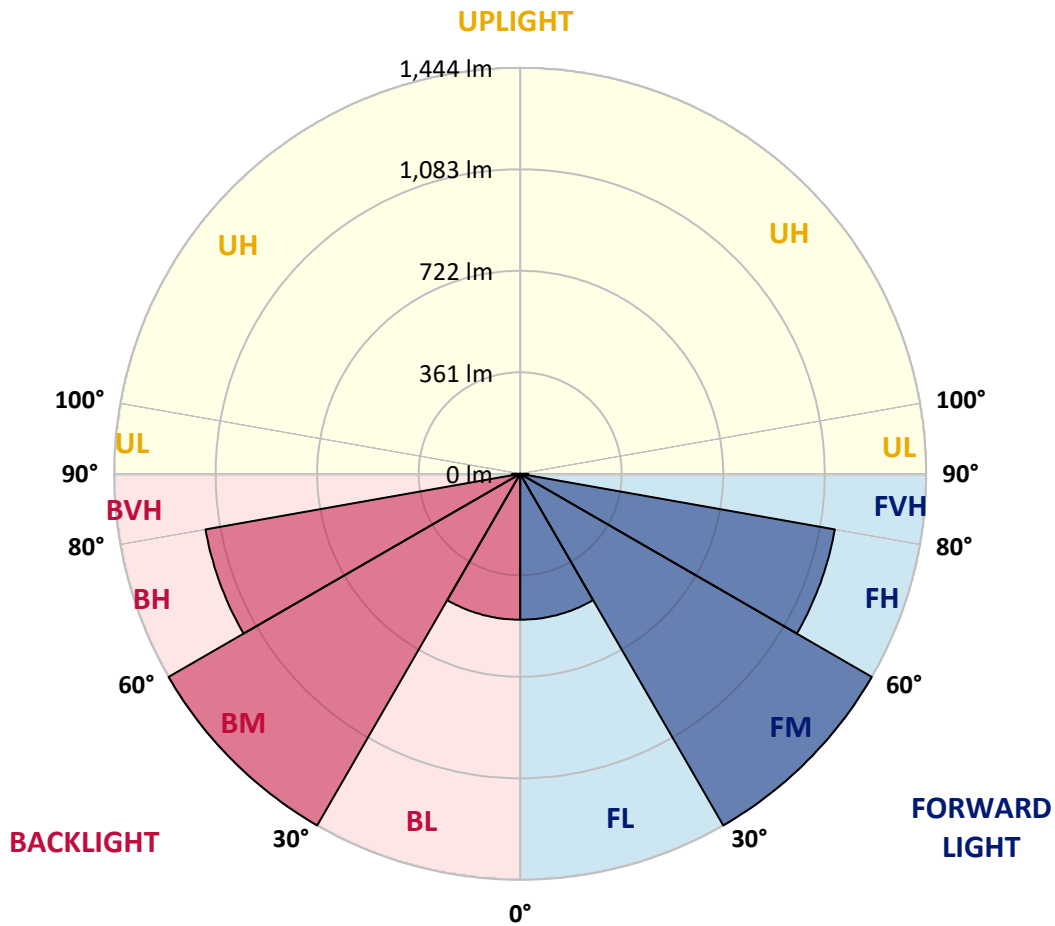
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	518.9	8.3			
FM (30°-60°)	1444.0	23.1			
FH (60°-80°)	1136.4	18.2			G1/1800
FVH (80°-90°)	28.7	0.5			G1/100
BL (0°-30°)	518.9	8.3	B2/1000		
BM (30°-60°)	1444.0	23.1	B2/2500		
BH (60°-80°)	1136.4	18.2	B3/2500		G3/2500
BVH (80°-90°)	28.7	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°	1169.0	1169.0	1169.0	1169.0	1169.0	1169.0	1169.0	1169.0	1169.0	1169.0	1169.0
2.5°	1170.0	1171.3	1171.3	1170.3	1172.7	1170.7	1170.7	1169.7	1170.7	1169.7	1169.7
5°	1176.0	1177.6	1178.3	1178.0	1181.0	1179.3	1179.3	1178.0	1178.3	1177.3	1177.3
7.5°	1187.3	1189.6	1190.9	1192.6	1196.9	1194.9	1193.6	1189.6	1188.0	1185.3	1185.3
10°	1190.9	1193.6	1197.9	1206.6	1216.5	1216.9	1212.9	1202.9	1195.3	1189.3	1188.3
12.5°	1179.6	1183.3	1192.3	1209.9	1232.2	1241.1	1234.8	1218.2	1203.2	1192.6	1190.9
15°	1165.3	1169.3	1183.0	1209.6	1242.5	1263.4	1262.8	1240.8	1216.9	1200.3	1197.6
17.5°	1143.1	1147.1	1166.7	1203.9	1250.5	1285.0	1294.3	1271.7	1238.2	1215.9	1212.2
20°	1102.8	1106.5	1133.8	1186.0	1253.1	1308.0	1332.2	1312.3	1270.4	1240.2	1234.5
22.5°	1050.6	1056.3	1088.2	1155.0	1246.8	1331.9	1375.5	1361.8	1308.0	1266.1	1258.4
25°	994.8	1000.8	1038.0	1117.1	1230.5	1349.2	1426.7	1418.0	1350.5	1298.3	1287.7
27.5°	946.6	952.9	993.5	1079.6	1205.2	1355.9	1477.2	1481.5	1402.1	1333.9	1322.6
30°	908.7	914.7	957.9	1049.3	1172.7	1349.2	1521.4	1551.4	1454.6	1364.8	1348.5
32.5°	867.1	874.8	920.3	1012.4	1134.1	1333.2	1560.0	1626.8	1515.4	1398.1	1377.5
35°	814.6	821.6	869.4	961.9	1083.6	1307.6	1592.2	1710.6	1602.6	1448.6	1425.7
37.5°	750.7	757.4	804.9	898.7	1033.3	1271.7	1616.9	1805.0	1706.3	1521.4	1490.8
40°	686.6	692.9	737.4	828.2	973.2	1225.9	1625.5	1897.5	1825.3	1621.5	1588.9
42.5°	627.7	633.4	674.3	758.7	905.7	1167.3	1614.2	1977.9	1932.0	1691.3	1649.4
45°	573.5	578.5	614.8	693.6	835.5	1096.2	1580.3	2064.4	2059.0	1741.2	1684.7
47.5°	511.7	516.7	554.2	630.4	765.4	1012.7	1522.8	2149.5	2235.6	1854.2	1789.1
50°	436.2	440.5	479.1	557.6	692.6	924.0	1443.0	2216.3	2458.4	2025.5	1943.7
52.5°	346.8	351.4	389.0	467.5	606.1	828.5	1337.9	2259.9	2715.7	2275.5	2174.8
55°	258.0	261.3	293.9	364.4	499.1	719.8	1206.2	2272.2	3007.6	2617.3	2491.3
57.5°	187.2	189.2	210.1	262.7	378.4	583.8	1046.3	2240.3	3355.1	3055.5	2896.9
60°	151.6	152.3	158.6	181.9	263.0	430.2	853.1	2130.5	3732.1	3620.4	3420.6
62.5°	137.6	137.6	139.3	145.6	177.9	283.9	619.4	1903.1	4136.4	4334.2	4066.6
65°	128.0	128.0	128.7	131.7	140.3	180.9	391.0	1532.7	4477.2	5170.4	4831.9
67.5°	119.4	119.7	119.4	120.4	125.3	133.7	226.8	1058.6	4660.7	6036.8	5671.4
70°	110.4	111.0	109.4	109.4	113.4	113.7	142.0	580.5	4508.4	6763.0	6666.9
72.5°	99.7	100.7	98.1	97.4	100.4	99.1	106.7	278.6	3870.7	6979.8	7232.4
75°	90.4	91.8	85.8	84.1	84.1	83.1	86.8	143.0	2512.2	5693.7	6090.0
77.5°	82.1	84.8	75.1	69.8	68.5	65.5	70.8	87.4	1098.8	2673.1	2617.6
80°	67.8	71.5	61.8	55.5	53.2	49.9	55.9	61.2	326.8	620.7	594.5
82.5°	50.5	52.2	43.9	39.6	37.6	35.2	41.9	42.6	106.4	219.8	248.4
85°	32.3	32.9	26.9	23.3	22.3	21.3	26.6	23.3	40.6	161.6	234.7
87.5°	11.3	13.0	10.3	9.3	10.0	8.3	12.3	7.0	11.3	114.0	141.3
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)