

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: P881715

Luminaire Tested: **NAV-SB1B-730-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P881715  
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-730-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

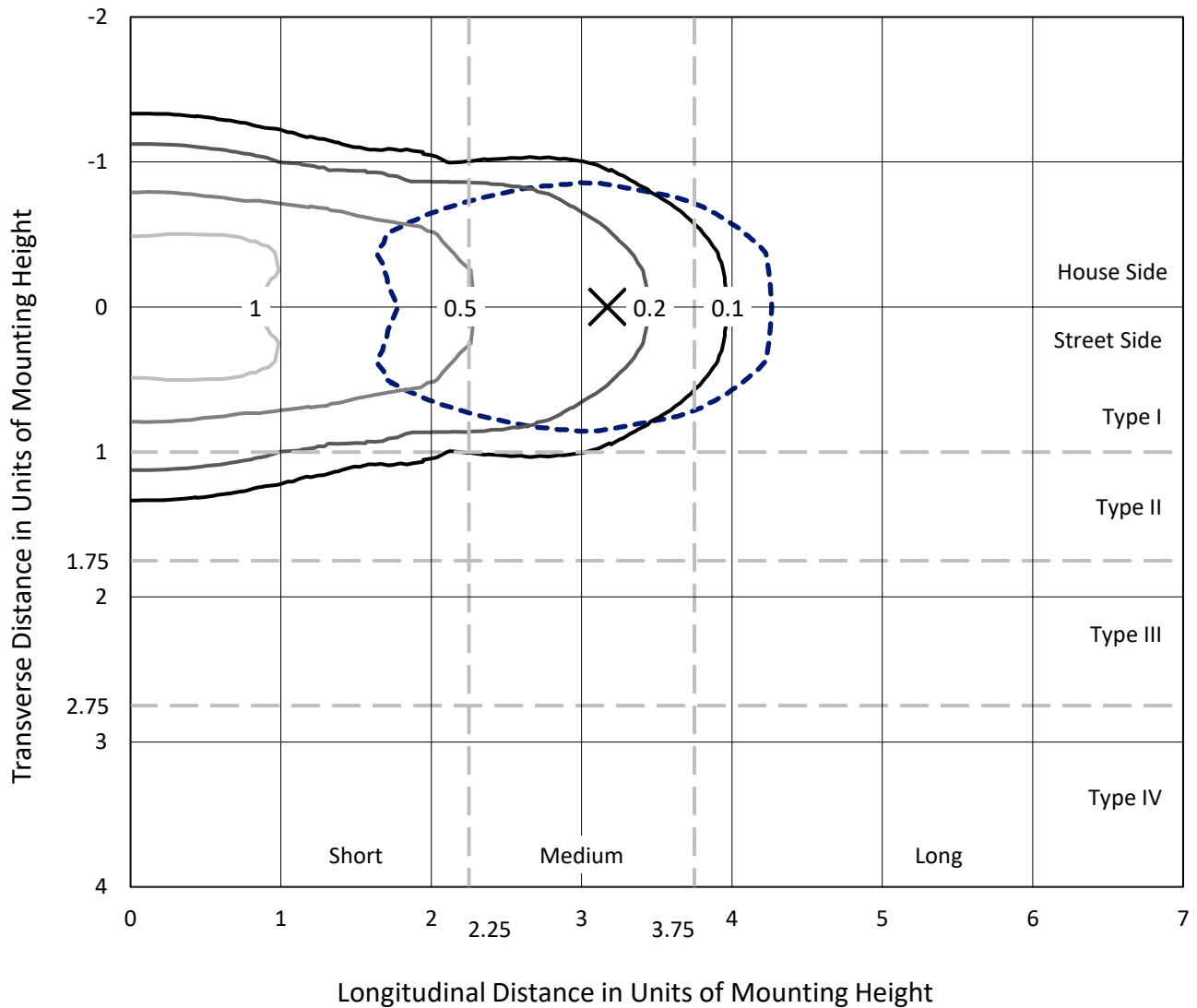
Lumens per Lamp: N/A  
Luminaire Lumens: 5488 lumens  
Efficiency: N/A  
Efficacy: 137.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 39.8  
Input Voltage (V): 120.0  
Input Current (Ain): 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

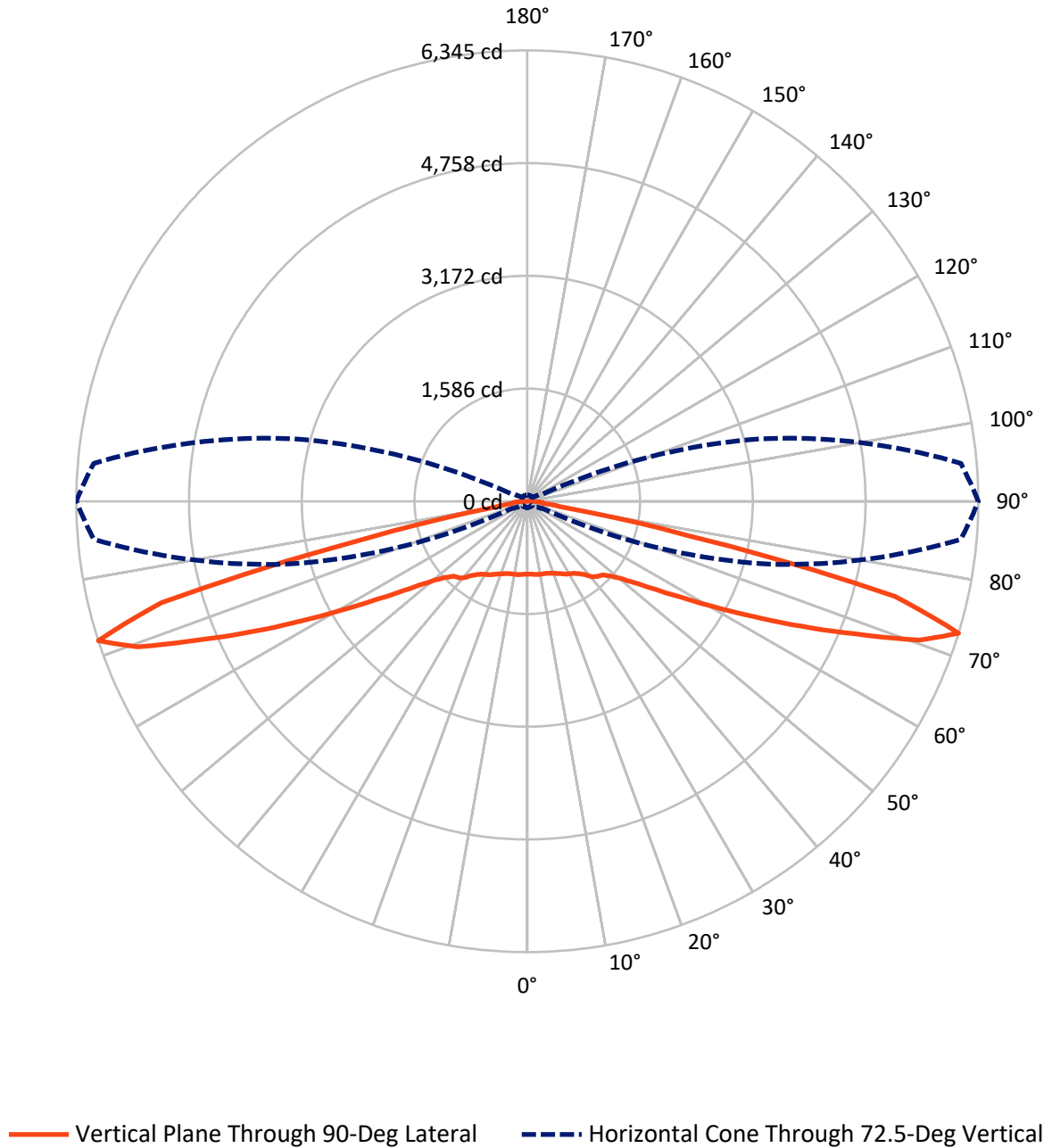
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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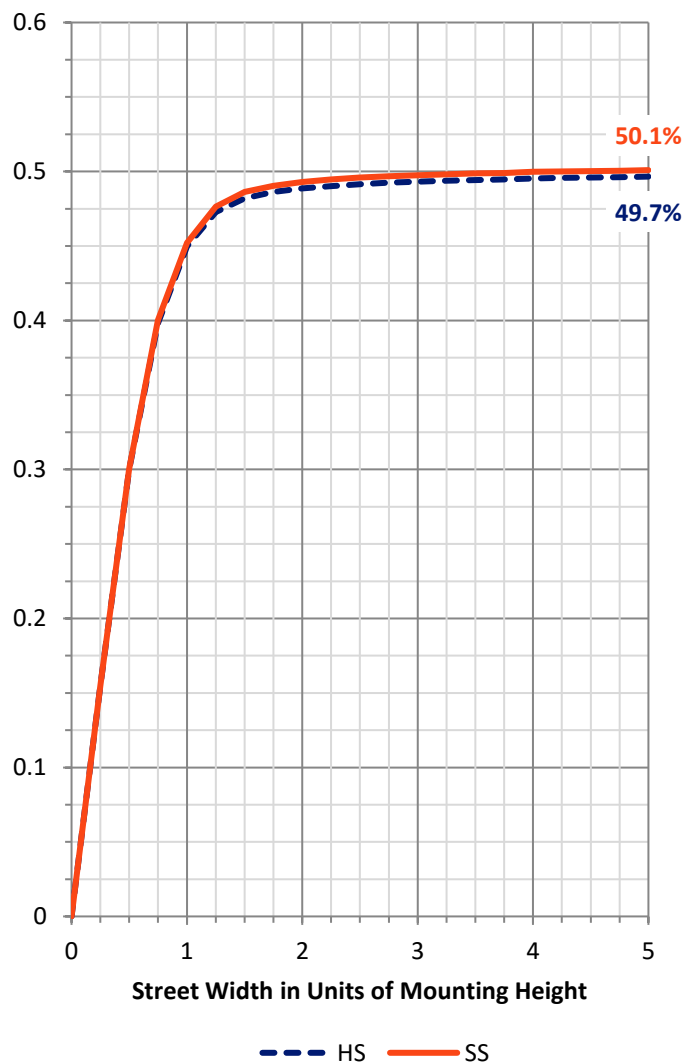
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2744.0	0.0	2744.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2744.0	0.0	2744.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5488.0	0.0	5488.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.4	1.8
10°-20°	304.0	5.5
20°-30°	506.9	9.2
30°-40°	697.2	12.7
40°-50°	851.5	15.5
50°-60°	984.8	17.9
60°-70°	1174.2	21.4
70°-80°	819.5	14.9
80°-90°	50.3	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°	5488.0	100.0
0°-180°	5488.0	100.0

**Coefficient of Utilization**



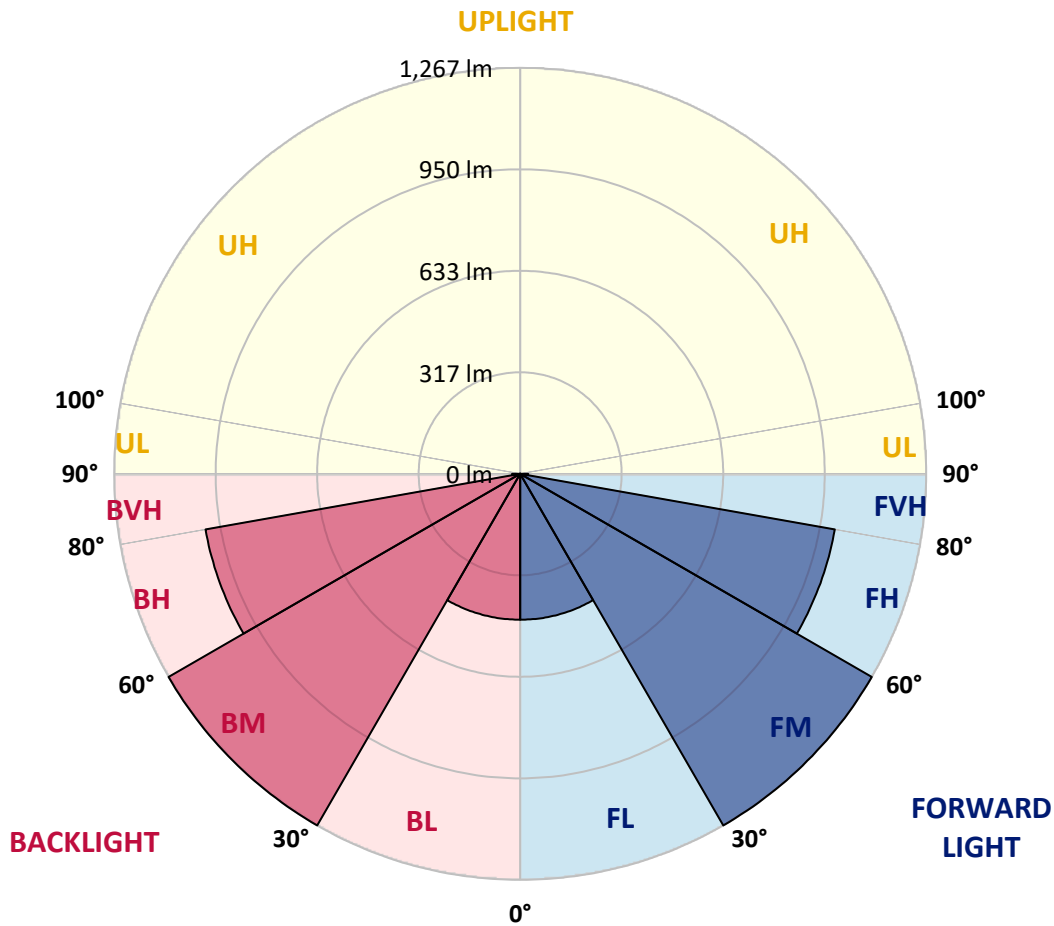
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	455.2	8.3			
FM (30°-60°)	1266.7	23.1			
FH (60°-80°)	996.9	18.2			G1/1800
FVH (80°-90°)	25.2	0.5			G1/100
BL (0°-30°)	455.2	8.3	B1/500		
BM (30°-60°)	1266.7	23.1	B2/2500		
BH (60°-80°)	996.9	18.2	B2/1000		G2/1000
BVH (80°-90°)	25.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1025.5	1025.5	1025.5	1025.5	1025.5	1025.5	1025.5	1025.5	1025.5	1025.5	1025.5
2.5°	1026.4	1027.5	1027.5	1026.7	1028.7	1026.9	1026.9	1026.1	1026.9	1026.1	1026.1
5°	1031.6	1033.1	1033.7	1033.4	1036.0	1034.5	1034.5	1033.4	1033.7	1032.8	1032.8
7.5°	1041.5	1043.6	1044.7	1046.2	1050.0	1048.2	1047.1	1043.6	1042.1	1039.8	1039.8
10°	1044.7	1047.1	1050.9	1058.4	1067.2	1067.5	1064.0	1055.2	1048.5	1043.3	1042.4
12.5°	1034.8	1038.0	1045.9	1061.4	1080.9	1088.8	1083.2	1068.7	1055.5	1046.2	1044.7
15°	1022.3	1025.8	1037.7	1061.1	1089.9	1108.3	1107.7	1088.5	1067.5	1052.9	1050.6
17.5°	1002.7	1006.2	1023.4	1056.1	1096.9	1127.3	1135.4	1115.6	1086.2	1066.6	1063.4
20°	967.4	970.7	994.6	1040.4	1099.3	1147.4	1168.7	1151.2	1114.4	1087.9	1082.9
22.5°	921.7	926.6	954.6	1013.2	1093.7	1168.4	1206.6	1194.7	1147.4	1110.7	1103.9
25°	872.7	877.9	910.6	980.0	1079.4	1183.6	1251.5	1243.9	1184.7	1138.9	1129.6
27.5°	830.4	835.9	871.5	947.0	1057.3	1189.4	1295.9	1299.7	1229.9	1170.2	1160.2
30°	797.1	802.4	840.3	920.5	1028.7	1183.6	1334.7	1360.9	1276.0	1197.3	1183.0
32.5°	760.7	767.4	807.3	888.1	994.9	1169.6	1368.5	1427.1	1329.4	1226.4	1208.4
35°	714.6	720.7	762.7	843.8	950.5	1147.1	1396.8	1500.6	1405.8	1270.8	1250.7
37.5°	658.6	664.4	706.1	788.4	906.5	1115.6	1418.4	1583.4	1496.8	1334.7	1307.8
40°	602.3	607.8	646.9	726.5	853.7	1075.4	1425.9	1664.5	1601.2	1422.4	1393.9
42.5°	550.7	555.6	591.5	665.6	794.5	1024.0	1416.0	1735.1	1694.9	1483.7	1446.9
45°	503.1	507.5	539.3	608.4	733.0	961.6	1386.3	1810.9	1806.3	1527.4	1477.9
47.5°	448.9	453.2	486.2	553.0	671.4	888.4	1335.8	1885.6	1961.1	1626.6	1569.4
50°	382.7	386.5	420.3	489.1	607.5	810.5	1265.8	1944.2	2156.6	1776.8	1705.1
52.5°	304.2	308.3	341.2	410.1	531.7	726.8	1173.7	1982.4	2382.3	1996.1	1907.8
55°	226.3	229.2	257.8	319.7	437.8	631.5	1058.2	1993.2	2638.4	2296.0	2185.4
57.5°	164.2	166.0	184.3	230.4	331.9	512.2	917.9	1965.2	2943.2	2680.4	2541.3
60°	133.0	133.6	139.1	159.5	230.7	377.4	748.4	1869.0	3273.9	3175.9	3000.6
62.5°	120.7	120.7	122.2	127.7	156.0	249.1	543.4	1669.5	3628.6	3802.1	3567.3
65°	112.3	112.3	112.9	115.5	123.1	158.7	343.0	1344.6	3927.5	4535.7	4238.8
67.5°	104.7	105.0	104.7	105.6	110.0	117.2	198.9	928.7	4088.5	5295.7	4975.2
70°	96.8	97.4	96.0	96.0	99.5	99.7	124.5	509.2	3955.0	5932.7	5848.4
72.5°	87.5	88.4	86.0	85.5	88.1	86.9	93.6	244.4	3395.6	6122.9	6344.6
75°	79.3	80.5	75.2	73.8	73.8	72.9	76.1	125.4	2203.8	4994.7	5342.4
77.5°	72.0	74.4	65.9	61.2	60.1	57.5	62.1	76.7	963.9	2345.0	2296.3
80°	59.5	62.7	54.2	48.7	46.7	43.7	49.0	53.7	286.7	544.5	521.5
82.5°	44.3	45.8	38.5	34.7	33.0	30.9	36.7	37.3	93.3	192.8	217.9
85°	28.3	28.9	23.6	20.4	19.5	18.7	23.3	20.4	35.6	141.7	205.9
87.5°	9.9	11.4	9.0	8.2	8.7	7.3	10.8	6.1	9.9	100.0	124.0
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)