

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: P881725

Luminaire Tested: **NAV-SB1B-735-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P881725  
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-735-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3500K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

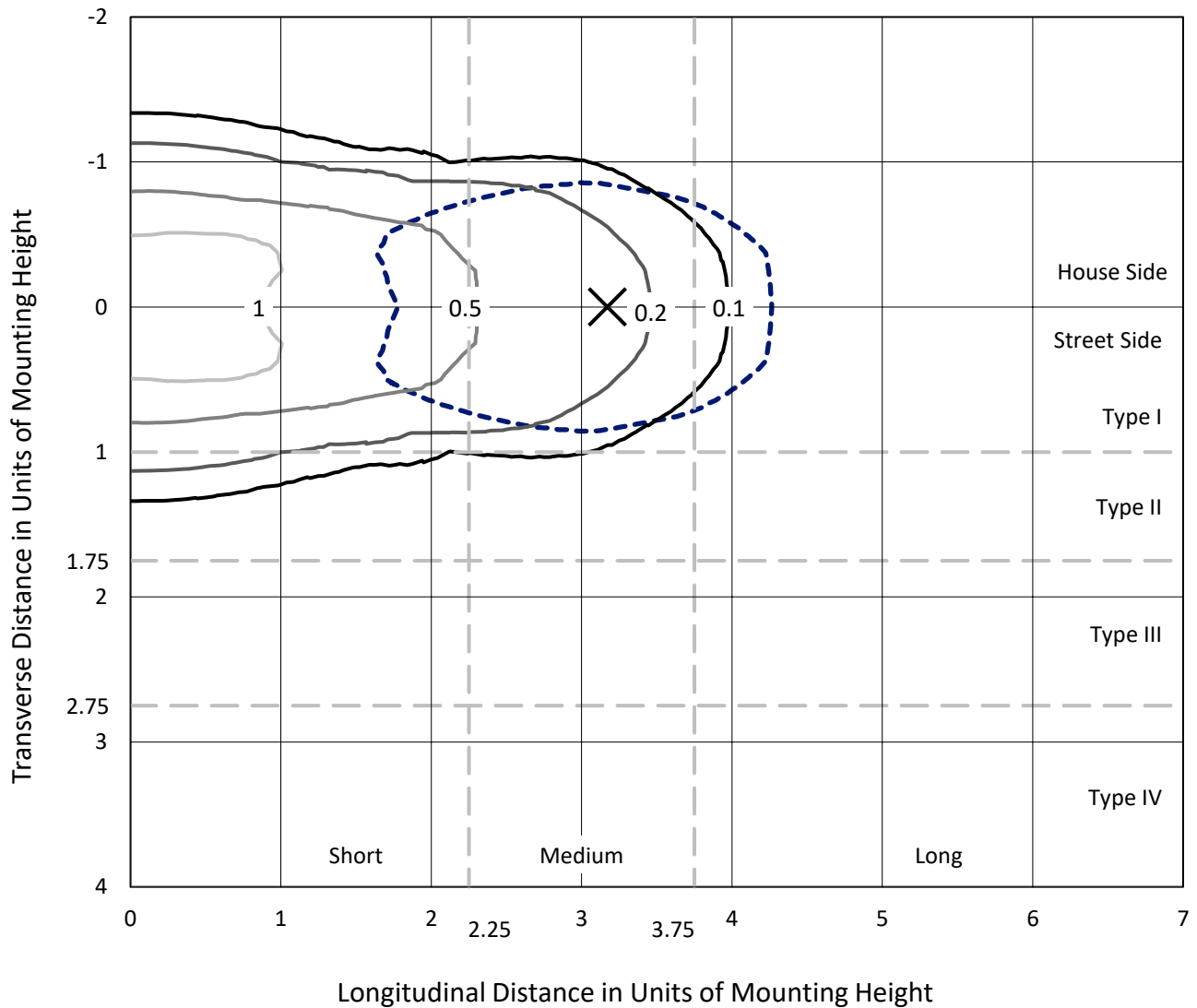
Lumens per Lamp: N/A  
Luminaire Lumens: 5575 lumens  
Efficiency: N/A  
Efficacy: 140.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 39.8  
Input Voltage (V): 120.0  
Input Current (Ain): 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

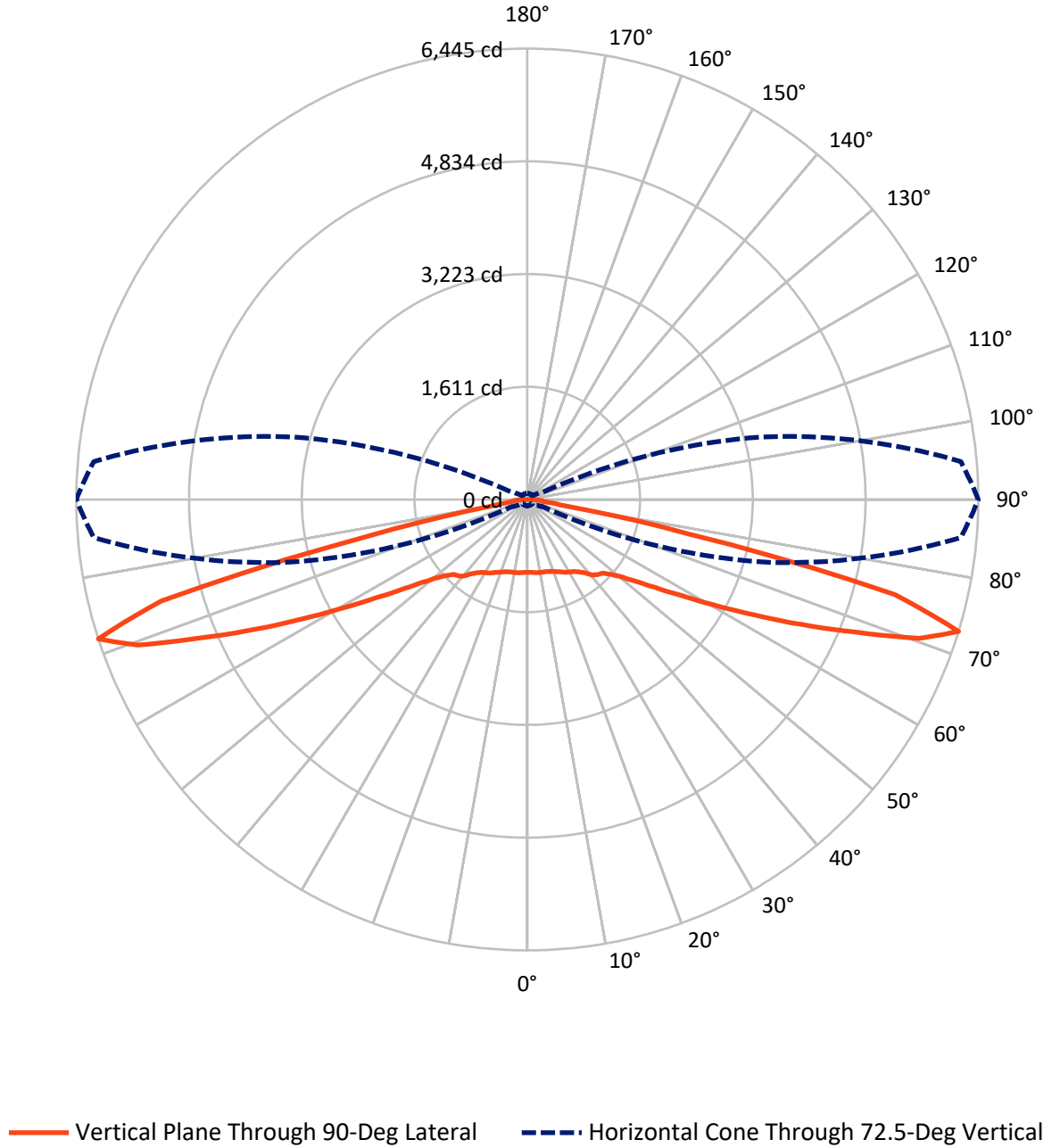
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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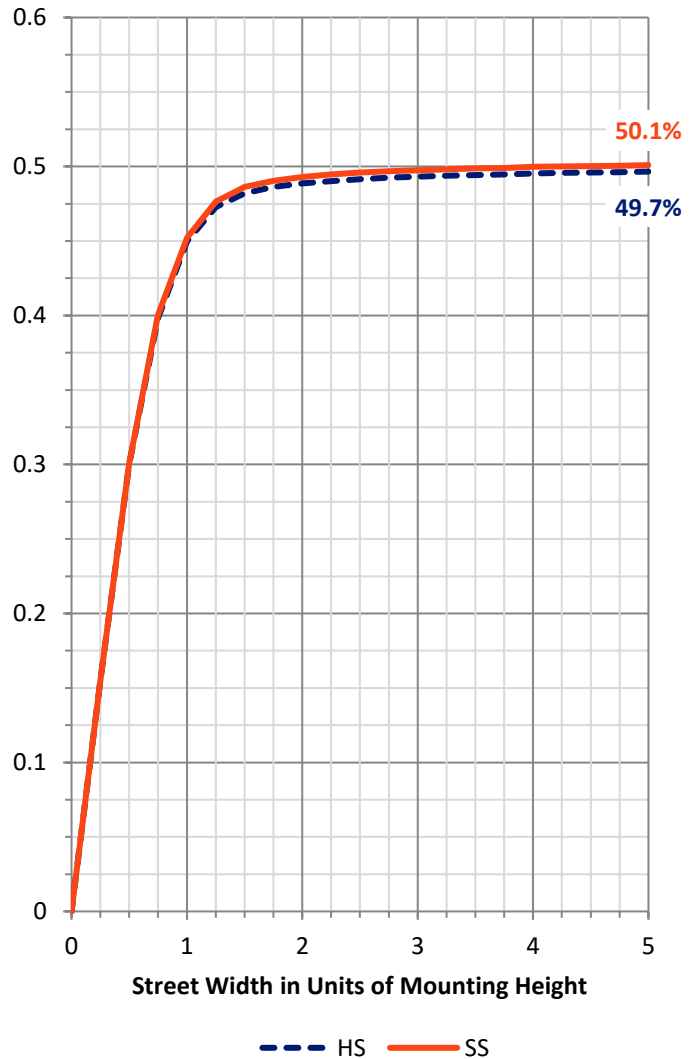
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2787.5	0.0	2787.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2787.5	0.0	2787.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5575.0	0.0	5575.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.0	1.8
10°-20°	308.8	5.5
20°-30°	515.0	9.2
30°-40°	708.3	12.7
40°-50°	865.0	15.5
50°-60°	1000.4	17.9
60°-70°	1192.9	21.4
70°-80°	832.5	14.9
80°-90°	51.1	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°	5575.0	100.0
0°-180°	5575.0	100.0

**Coefficient of Utilization**



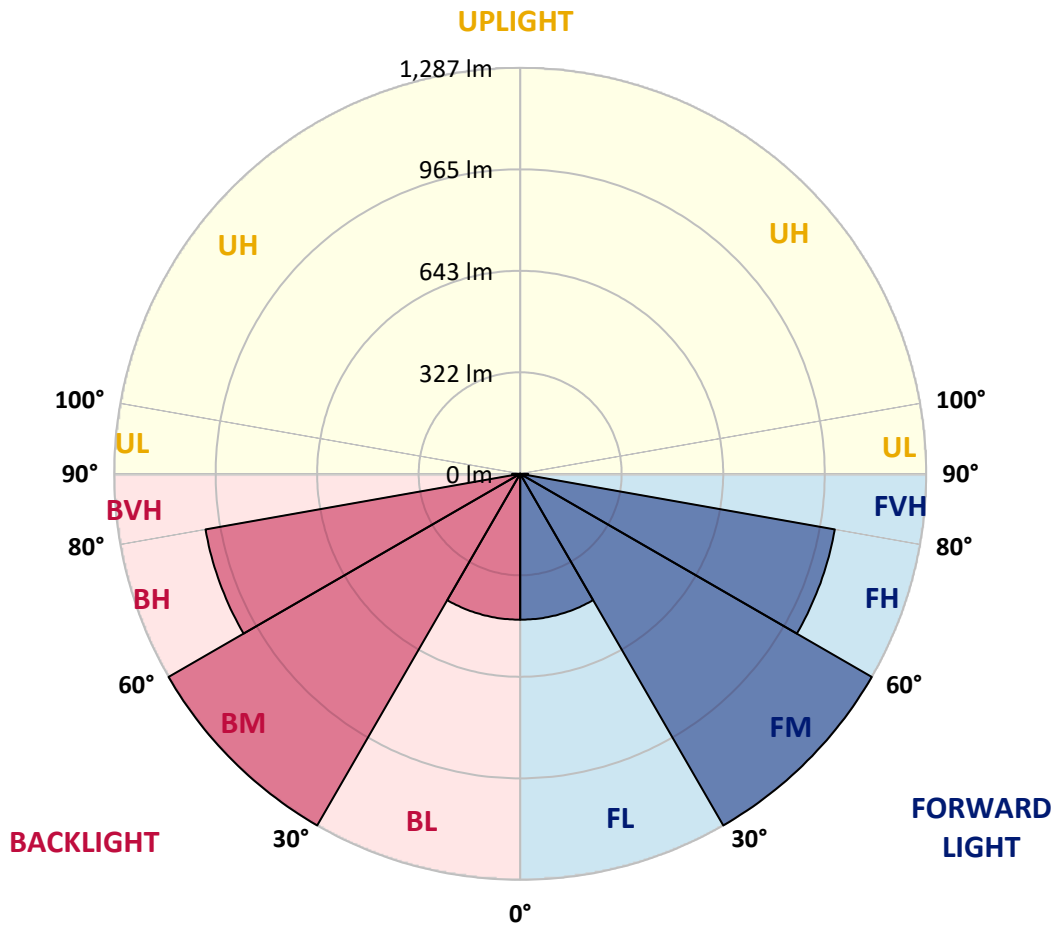
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	462.4	8.3			
FM (30°-60°)	1286.8	23.1			
FH (60°-80°)	1012.7	18.2			G1/1800
FVH (80°-90°)	25.6	0.5			G1/100
BL (0°-30°)	462.4	8.3	B1/500		
BM (30°-60°)	1286.8	23.1	B2/2500		
BH (60°-80°)	1012.7	18.2	B3/2500		G3/2500
BVH (80°-90°)	25.6	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°	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7
2.5°	1042.6	1043.8	1043.8	1042.9	1045.0	1043.2	1043.2	1042.3	1043.2	1042.3	1042.3
5°	1048.0	1049.5	1050.0	1049.7	1052.4	1050.9	1050.9	1049.7	1050.0	1049.2	1049.2
7.5°	1058.0	1060.1	1061.3	1062.8	1066.6	1064.9	1063.7	1060.1	1058.6	1056.3	1056.3
10°	1061.3	1063.7	1067.5	1075.2	1084.1	1084.4	1080.9	1072.0	1065.2	1059.8	1058.9
12.5°	1051.2	1054.5	1062.5	1078.2	1098.0	1106.0	1100.4	1085.6	1072.3	1062.8	1061.3
15°	1038.5	1042.0	1054.2	1077.9	1107.2	1125.9	1125.3	1105.7	1084.4	1069.6	1067.2
17.5°	1018.6	1022.2	1039.7	1072.9	1114.3	1145.2	1153.4	1133.3	1103.4	1083.5	1080.3
20°	982.8	986.0	1010.3	1056.9	1116.7	1165.6	1187.2	1169.4	1132.1	1105.2	1100.1
22.5°	936.3	941.3	969.7	1029.3	1111.1	1186.9	1225.7	1213.6	1165.6	1128.3	1121.4
25°	886.5	891.8	925.0	995.5	1096.6	1202.3	1271.4	1263.7	1203.5	1157.0	1147.5
27.5°	843.5	849.2	885.3	962.0	1074.0	1208.3	1316.4	1320.3	1249.4	1188.7	1178.6
30°	809.8	815.1	853.6	935.1	1045.0	1202.3	1355.8	1382.5	1296.3	1216.3	1201.7
32.5°	772.7	779.5	820.1	902.2	1010.6	1188.1	1390.2	1449.7	1350.5	1245.9	1227.5
35°	725.9	732.1	774.8	857.2	965.6	1165.3	1418.9	1524.4	1428.1	1290.9	1270.5
37.5°	669.0	674.9	717.3	800.9	920.9	1133.3	1440.8	1608.5	1520.5	1355.8	1328.6
40°	611.8	617.5	657.2	738.1	867.2	1092.4	1448.6	1690.9	1626.6	1445.0	1416.0
42.5°	559.4	564.4	600.9	676.1	807.1	1040.3	1438.5	1762.6	1721.7	1507.2	1469.9
45°	511.1	515.5	547.8	618.1	744.6	976.9	1408.3	1839.7	1834.9	1551.7	1501.3
47.5°	456.0	460.4	493.9	561.8	682.1	902.5	1357.0	1915.5	1992.2	1652.4	1594.3
50°	388.7	392.6	427.0	496.9	617.2	823.4	1285.9	1975.1	2190.8	1805.0	1732.1
52.5°	309.0	313.2	346.7	416.6	540.1	738.3	1192.3	2013.9	2420.1	2027.8	1938.0
55°	229.9	232.9	261.9	324.7	444.7	641.5	1074.9	2024.8	2680.2	2332.4	2220.1
57.5°	166.8	168.6	187.3	234.1	337.2	520.3	932.4	1996.4	2989.8	2722.9	2581.6
60°	135.1	135.7	141.3	162.1	234.4	383.4	760.3	1898.6	3325.8	3226.3	3048.2
62.5°	122.7	122.7	124.1	129.8	158.5	253.0	552.0	1696.0	3686.1	3862.4	3623.9
65°	114.1	114.1	114.7	117.3	125.0	161.2	348.4	1365.9	3989.8	4607.6	4305.9
67.5°	106.4	106.7	106.4	107.3	111.7	119.1	202.1	943.4	4153.4	5379.7	5054.1
70°	98.4	99.0	97.5	97.5	101.0	101.3	126.5	517.3	4017.7	6026.8	5941.2
72.5°	88.9	89.8	87.4	86.8	89.5	88.3	95.1	248.3	3449.4	6220.0	6445.1
75°	80.6	81.8	76.4	75.0	75.0	74.1	77.3	127.4	2238.7	5073.9	5427.1
77.5°	73.2	75.6	67.0	62.2	61.0	58.4	63.1	77.9	979.2	2382.2	2332.7
80°	60.4	63.7	55.1	49.5	47.4	44.4	49.8	54.5	291.3	553.2	529.8
82.5°	45.0	46.5	39.1	35.3	33.5	31.4	37.3	37.9	94.8	195.8	221.3
85°	28.7	29.3	24.0	20.7	19.9	19.0	23.7	20.7	36.1	144.0	209.2
87.5°	10.1	11.6	9.2	8.3	8.9	7.4	11.0	6.2	10.1	101.6	125.9
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)