

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: P881705

Luminaire Tested: **NAV-SB1B-727-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881705
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-727-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5053 lumens
Efficiency: N/A
Efficacy: 127.0 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

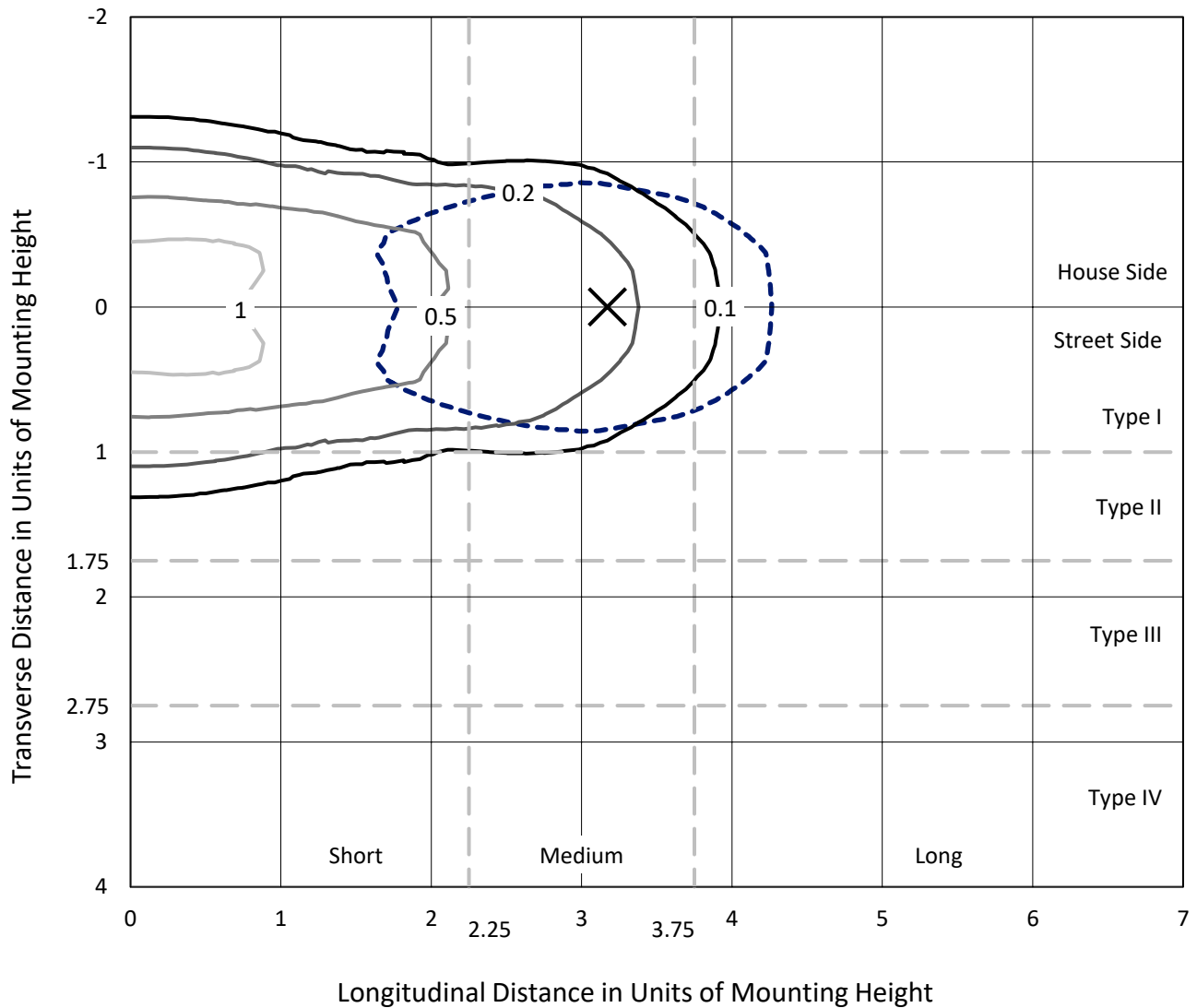
Input Watts (W): 39.8
Input Voltage (V): 120.0
Input Current (Ain): 0.33
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.305
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

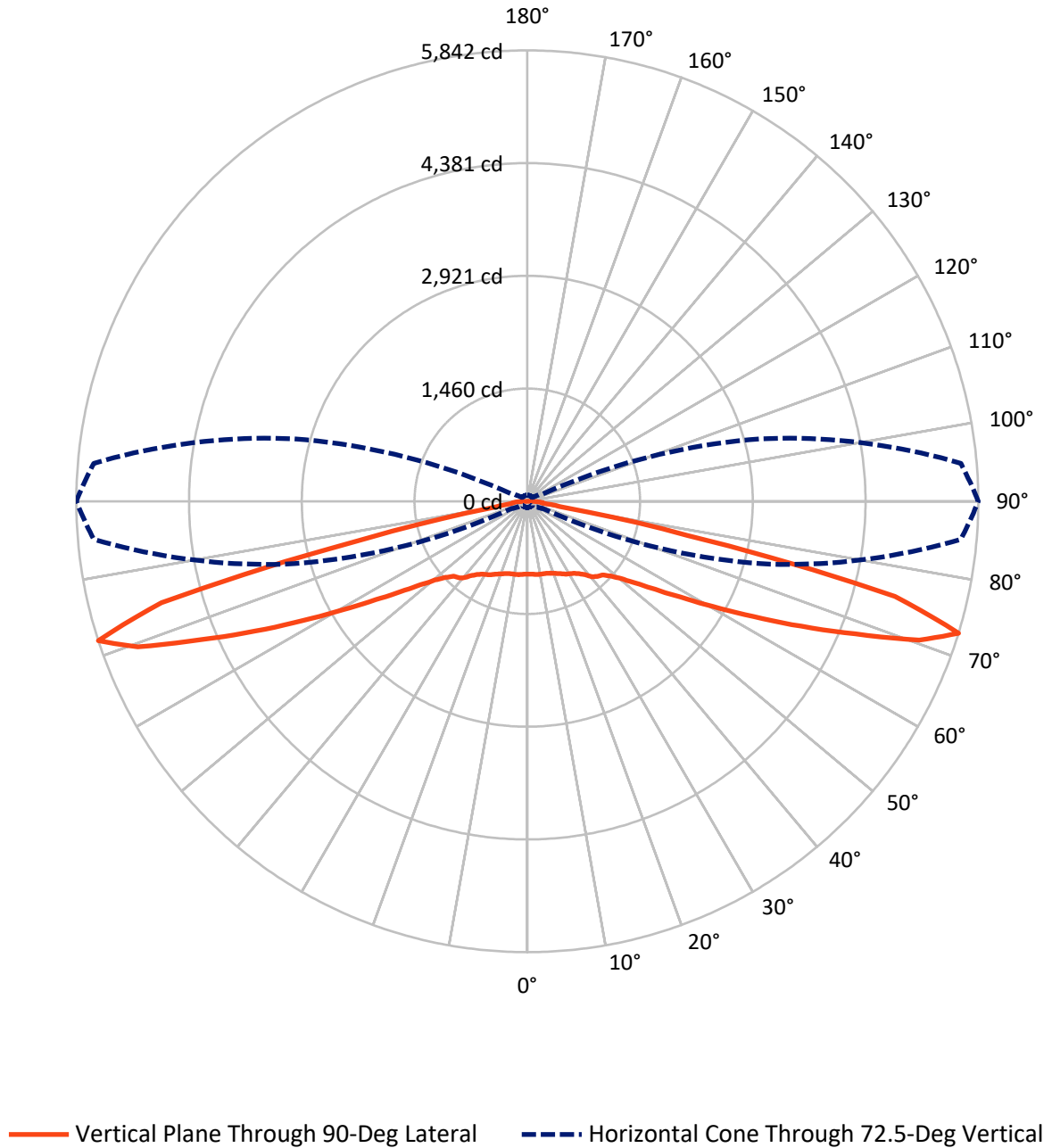
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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	2526.5	0.0	2526.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2526.5	0.0	2526.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5053.0	0.0	5053.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.6	1.8
10°-20°	279.9	5.5
20°-30°	466.8	9.2
30°-40°	641.9	12.7
40°-50°	784.0	15.5
50°-60°	906.8	17.9
60°-70°	1081.2	21.4
70°-80°	754.6	14.9
80°-90°	46.3	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°	5053.0	100.0
0°-180°	5053.0	100.0

Coefficient of Utilization



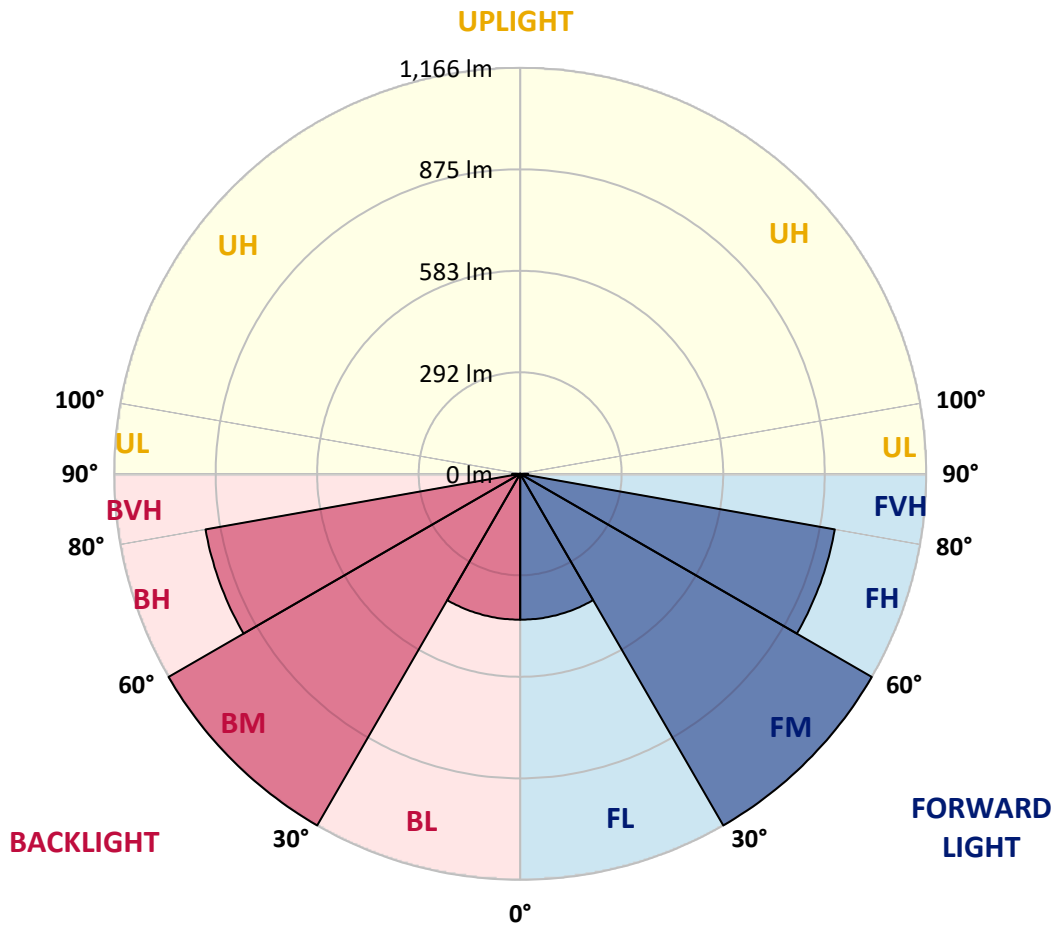
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 CATALOG NUMBER: NAV-SB1B-727-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	419.1	8.3			
FM (30°-60°)	1166.3	23.1			
FH (60°-80°)	917.9	18.2			G1/1800
FVH (80°-90°)	23.2	0.5			G1/100
BL (0°-30°)	419.1	8.3	B1/500		
BM (30°-60°)	1166.3	23.1	B2/2500		
BH (60°-80°)	917.9	18.2	B2/1000		G2/1000
BVH (80°-90°)	23.2	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°	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2
2.5°	945.0	946.1	946.1	945.3	947.2	945.5	945.5	944.7	945.5	944.7	944.7
5°	949.8	951.2	951.7	951.5	953.9	952.5	952.5	951.5	951.7	950.9	950.9
7.5°	959.0	960.9	961.9	963.3	966.8	965.2	964.1	960.9	959.5	957.4	957.4
10°	961.9	964.1	967.6	974.6	982.6	982.9	979.7	971.6	965.4	960.6	959.8
12.5°	952.8	955.8	963.0	977.2	995.2	1002.5	997.4	984.0	971.9	963.3	961.9
15°	941.3	944.5	955.5	977.0	1003.6	1020.5	1019.9	1002.2	982.9	969.4	967.3
17.5°	923.3	926.5	942.3	972.4	1010.0	1037.9	1045.4	1027.2	1000.1	982.1	979.1
20°	890.8	893.7	915.7	957.9	1012.1	1056.5	1076.1	1059.9	1026.1	1001.7	997.1
22.5°	848.6	853.2	878.9	932.9	1007.0	1075.8	1111.0	1100.0	1056.5	1022.6	1016.4
25°	803.5	808.3	838.4	902.3	993.9	1089.8	1152.3	1145.3	1090.8	1048.7	1040.1
27.5°	764.5	769.7	802.4	872.0	973.5	1095.1	1193.1	1196.6	1132.5	1077.4	1068.3
30°	733.9	738.8	773.7	847.5	947.2	1089.8	1228.9	1253.0	1174.9	1102.4	1089.2
32.5°	700.4	706.5	743.3	817.7	916.0	1076.9	1260.0	1314.0	1224.0	1129.2	1112.6
35°	657.9	663.6	702.2	776.9	875.2	1056.2	1286.1	1381.7	1294.4	1170.1	1151.5
37.5°	606.4	611.7	650.1	725.9	834.6	1027.2	1305.9	1457.9	1378.2	1228.9	1204.2
40°	554.5	559.6	595.6	668.9	786.0	990.1	1312.9	1532.6	1474.3	1309.7	1283.4
42.5°	507.0	511.6	544.6	612.8	731.5	942.9	1303.8	1597.6	1560.5	1366.1	1332.3
45°	463.2	467.3	496.5	560.2	674.9	885.4	1276.4	1667.4	1663.1	1406.4	1360.7
47.5°	413.3	417.3	447.7	509.2	618.2	818.0	1229.9	1736.1	1805.7	1497.7	1445.0
50°	352.3	355.8	387.0	450.4	559.4	746.3	1165.5	1790.1	1985.6	1636.0	1569.9
52.5°	280.1	283.9	314.2	377.6	489.6	669.2	1080.6	1825.3	2193.5	1837.9	1756.6
55°	208.4	211.1	237.4	294.3	403.1	581.4	974.3	1835.2	2429.3	2114.0	2012.2
57.5°	151.2	152.8	169.7	212.2	305.6	471.6	845.1	1809.5	2709.9	2467.9	2339.8
60°	122.5	123.0	128.1	146.9	212.4	347.5	689.1	1720.8	3014.4	2924.2	2762.8
62.5°	111.2	111.2	112.5	117.6	143.7	229.3	500.3	1537.2	3341.0	3500.8	3284.6
65°	103.4	103.4	103.9	106.3	113.3	146.1	315.8	1238.0	3616.2	4176.2	3902.8
67.5°	96.4	96.7	96.4	97.2	101.2	108.0	183.1	855.0	3764.5	4876.0	4580.9
70°	89.2	89.7	88.4	88.4	91.6	91.8	114.7	468.9	3641.5	5462.5	5384.9
72.5°	80.6	81.4	79.2	78.7	81.1	80.0	86.2	225.0	3126.4	5637.6	5841.7
75°	73.0	74.1	69.3	67.9	67.9	67.1	70.1	115.5	2029.1	4598.8	4919.0
77.5°	66.3	68.5	60.7	56.4	55.3	52.9	57.2	70.6	887.5	2159.1	2114.3
80°	54.8	57.7	49.9	44.8	43.0	40.3	45.1	49.4	264.0	501.4	480.2
82.5°	40.8	42.2	35.4	32.0	30.3	28.5	33.8	34.4	85.9	177.5	200.6
85°	26.0	26.6	21.8	18.8	18.0	17.2	21.5	18.8	32.8	130.5	189.6
87.5°	9.1	10.5	8.3	7.5	8.1	6.7	9.9	5.6	9.1	92.1	114.1
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)