

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: P881785

Luminaire Tested: **NAV-SB1B-835-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881785
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-835-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 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: 4703.9 lumens
Efficiency: N/A
Efficacy: 118.2 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

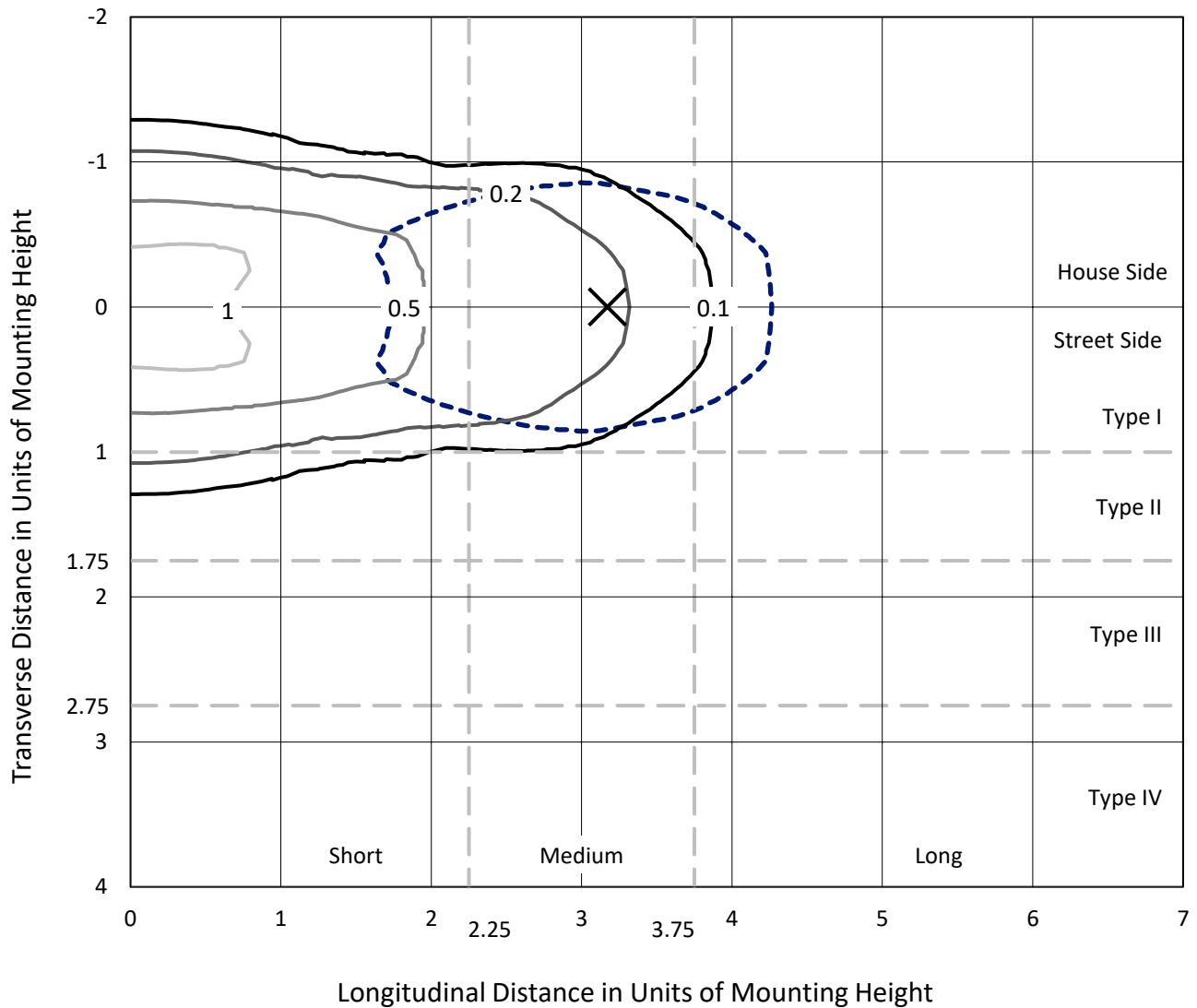
Input Watts (W): 39.8
Input Voltage (V): 120.0
Input Current (Ain): 0.33
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.305
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P881785
 CATALOG NUMBER: NAV-SB1B-835-U-T1

Iso-Footcandle Lines of Horizontal Illumination

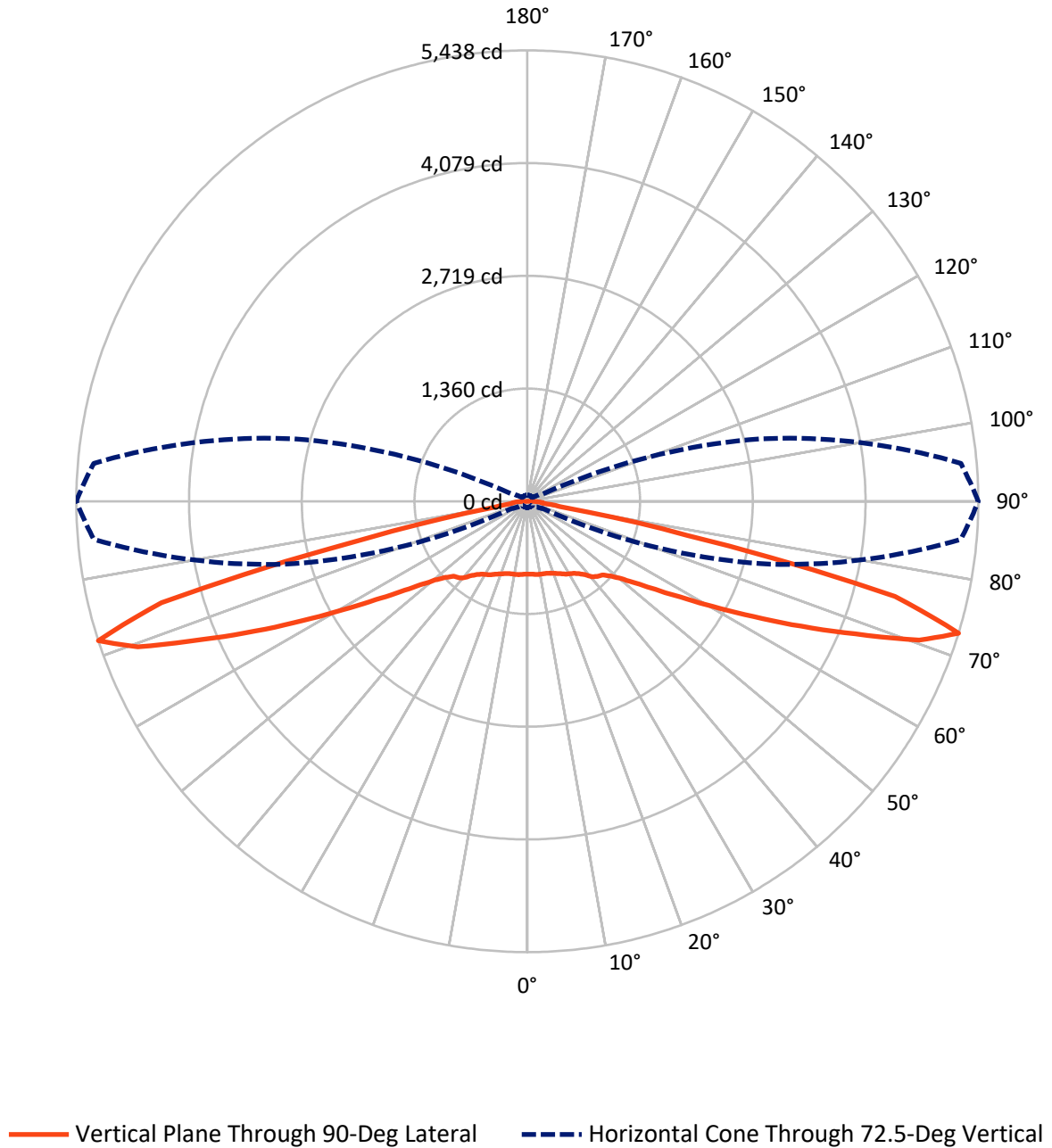
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type I - Short - N/A

REPORT NUMBER: P881785
CATALOG NUMBER: NAV-SB1B-835-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P881785
 CATALOG NUMBER: NAV-SB1B-835-U-T1

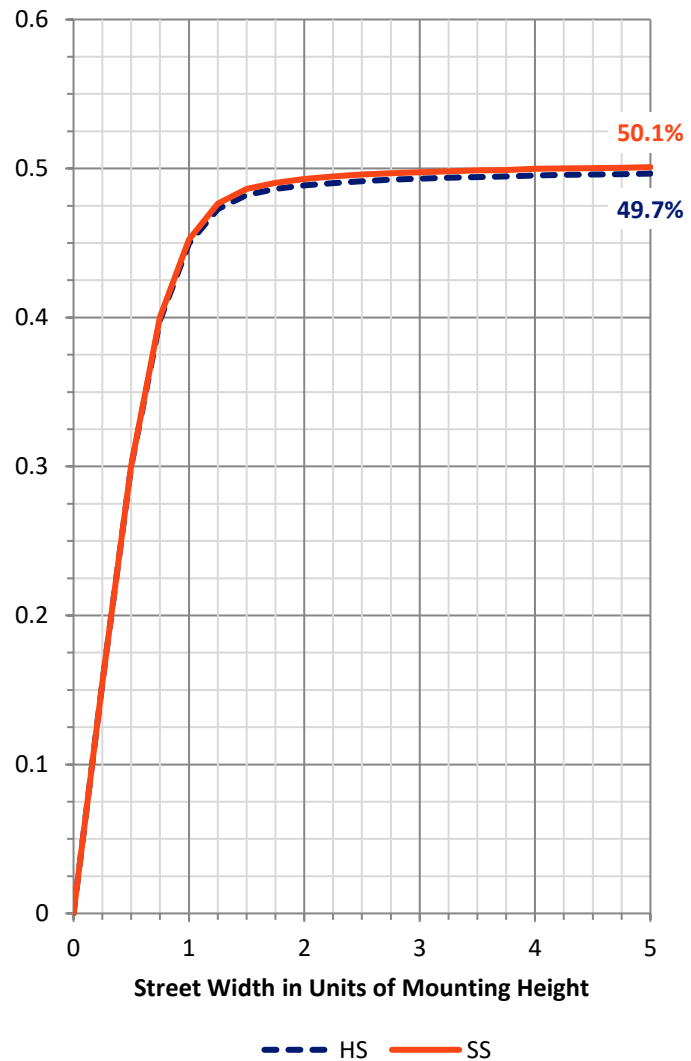
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2351.9	0.0	2351.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2351.9	0.0	2351.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	4703.9	0.0	4703.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.2	1.8
10°-20°	260.6	5.5
20°-30°	434.5	9.2
30°-40°	597.6	12.7
40°-50°	729.8	15.5
50°-60°	844.1	17.9
60°-70°	1006.5	21.4
70°-80°	702.4	14.9
80°-90°	43.1	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°	4703.9	100.0
0°-180°	4703.9	100.0

Coefficient of Utilization



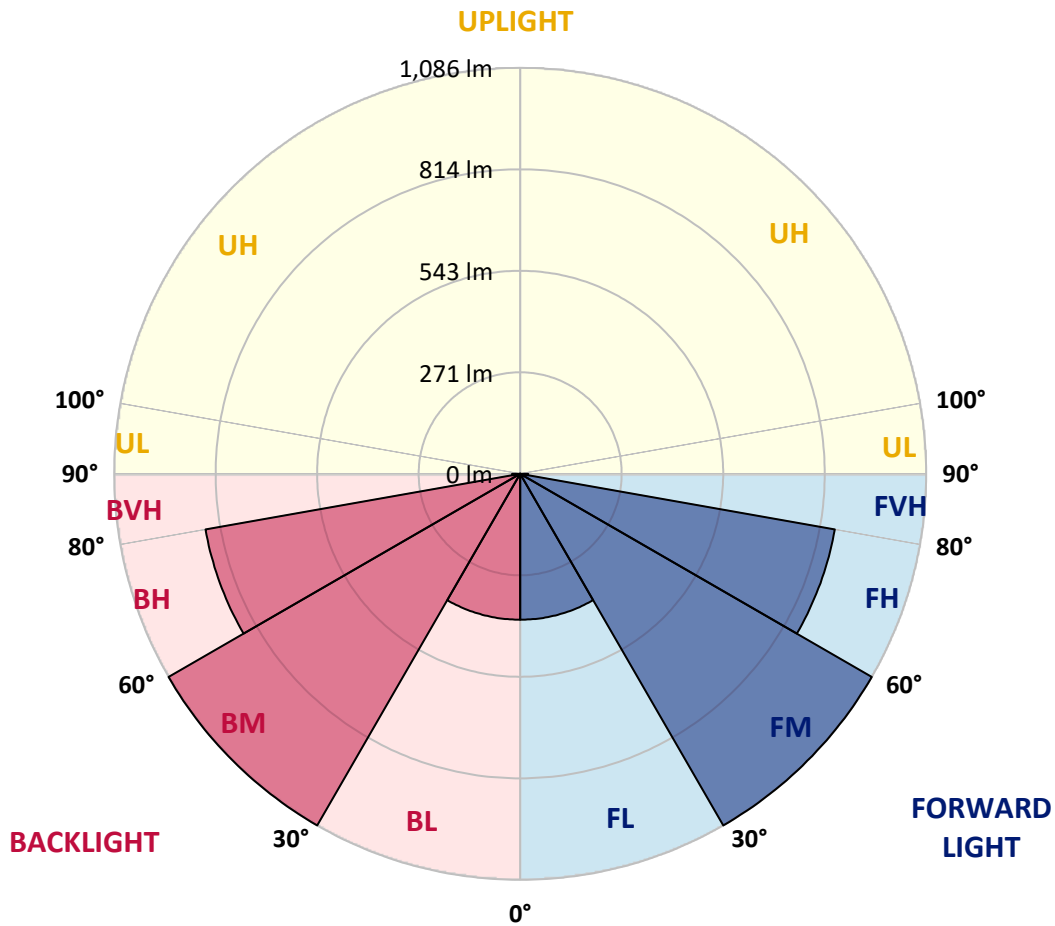
REPORT NUMBER: P881785
 CATALOG NUMBER: NAV-SB1B-835-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	390.2	8.3			
FM (30°-60°)	1085.8	23.1			
FH (60°-80°)	854.5	18.2			G1/1800
FVH (80°-90°)	21.6	0.5			G1/100
BL (0°-30°)	390.2	8.3	B1/500		
BM (30°-60°)	1085.8	23.1	B2/2500		
BH (60°-80°)	854.5	18.2	B2/1000		G2/1000
BVH (80°-90°)	21.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type I Short



REPORT NUMBER: P881785
 CATALOG NUMBER: NAV-SB1B-835-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	879.0	879.0	879.0	879.0	879.0	879.0	879.0	879.0	879.0	879.0	879.0
2.5°	879.7	880.7	880.7	880.0	881.7	880.2	880.2	879.5	880.2	879.5	879.5
5°	884.2	885.5	886.0	885.7	888.0	886.7	886.7	885.7	886.0	885.2	885.2
7.5°	892.7	894.5	895.5	896.7	900.0	898.5	897.5	894.5	893.2	891.2	891.2
10°	895.5	897.5	900.7	907.2	914.7	915.0	912.0	904.5	898.7	894.2	893.5
12.5°	887.0	889.7	896.5	909.7	926.5	933.2	928.5	916.0	904.7	896.7	895.5
15°	876.2	879.2	889.5	909.5	934.2	950.0	949.5	933.0	915.0	902.5	900.5
17.5°	859.5	862.5	877.2	905.2	940.2	966.2	973.2	956.2	931.0	914.2	911.5
20°	829.2	832.0	852.5	891.7	942.2	983.5	1001.7	986.7	955.2	932.5	928.2
22.5°	790.0	794.2	818.2	868.5	937.5	1001.5	1034.2	1024.0	983.5	952.0	946.2
25°	748.0	752.5	780.5	840.0	925.2	1014.5	1072.7	1066.2	1015.5	976.2	968.2
27.5°	711.7	716.5	747.0	811.7	906.2	1019.5	1110.7	1114.0	1054.2	1003.0	994.5
30°	683.2	687.7	720.2	789.0	881.7	1014.5	1144.0	1166.5	1093.7	1026.2	1014.0
32.5°	652.0	657.7	692.0	761.2	852.7	1002.5	1173.0	1223.2	1139.5	1051.2	1035.7
35°	612.5	617.7	653.7	723.2	814.7	983.2	1197.2	1286.2	1205.0	1089.2	1072.0
37.5°	564.5	569.5	605.2	675.7	777.0	956.2	1215.7	1357.2	1283.0	1144.0	1121.0
40°	516.2	521.0	554.5	622.7	731.7	921.7	1222.2	1426.7	1372.5	1219.2	1194.7
42.5°	472.0	476.2	507.0	570.5	681.0	877.7	1213.7	1487.2	1452.7	1271.7	1240.2
45°	431.2	435.0	462.2	521.5	628.2	824.2	1188.2	1552.2	1548.2	1309.2	1266.7
47.5°	384.7	388.5	416.7	474.0	575.5	761.5	1145.0	1616.2	1681.0	1394.2	1345.2
50°	328.0	331.2	360.2	419.2	520.7	694.7	1085.0	1666.5	1848.5	1523.0	1461.5
52.5°	260.7	264.2	292.5	351.5	455.7	623.0	1006.0	1699.2	2042.0	1711.0	1635.2
55°	194.0	196.5	221.0	274.0	375.2	541.2	907.0	1708.5	2261.5	1968.0	1873.2
57.5°	140.7	142.2	158.0	197.5	284.5	439.0	786.7	1684.5	2522.7	2297.5	2178.2
60°	114.0	114.5	119.2	136.7	197.7	323.5	641.5	1602.0	2806.2	2722.2	2572.0
62.5°	103.5	103.5	104.7	109.5	133.7	213.5	465.7	1431.0	3110.2	3259.0	3057.7
65°	96.2	96.2	96.7	99.0	105.5	136.0	294.0	1152.5	3366.5	3887.7	3633.2
67.5°	89.7	90.0	89.7	90.5	94.2	100.5	170.5	796.0	3504.5	4539.2	4264.5
70°	83.0	83.5	82.2	82.2	85.2	85.5	106.7	436.5	3390.0	5085.2	5013.0
72.5°	75.0	75.7	73.7	73.2	75.5	74.5	80.2	209.5	2910.5	5248.2	5438.2
75°	68.0	69.0	64.5	63.2	63.2	62.5	65.2	107.5	1889.0	4281.2	4579.2
77.5°	61.7	63.7	56.5	52.5	51.5	49.2	53.2	65.7	826.2	2010.0	1968.2
80°	51.0	53.7	46.5	41.7	40.0	37.5	42.0	46.0	245.7	466.7	447.0
82.5°	38.0	39.2	33.0	29.7	28.2	26.5	31.5	32.0	80.0	165.2	186.7
85°	24.2	24.7	20.2	17.5	16.7	16.0	20.0	17.5	30.5	121.5	176.5
87.5°	8.5	9.7	7.7	7.0	7.5	6.2	9.2	5.2	8.5	85.7	106.2
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)