

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: P882575

Luminaire Tested: **NAV-SB2C-735-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882575
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-SB2C-735-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15100 lumens
Efficiency: N/A
Efficacy: 149.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

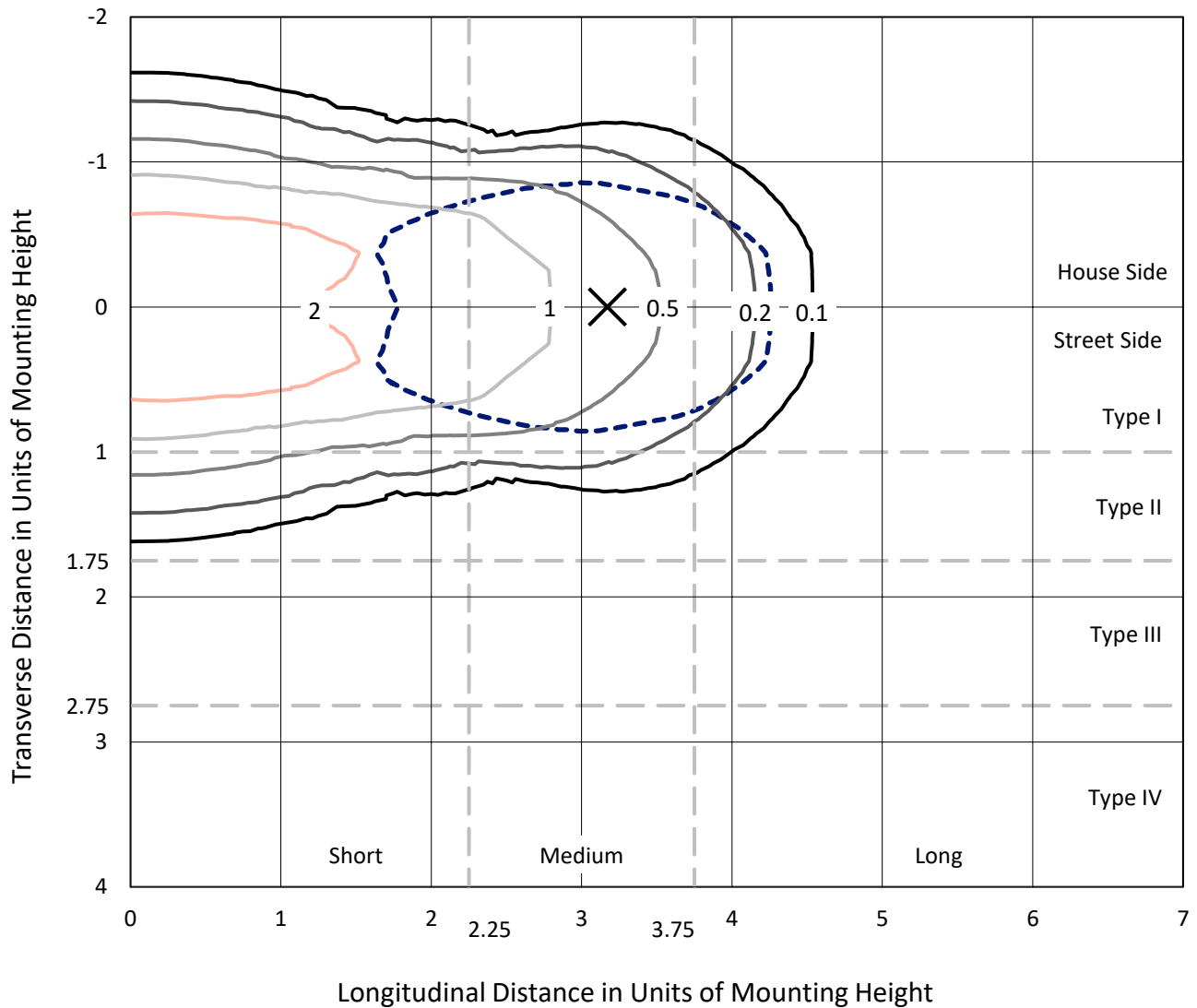
Input Watts (W): 100.9
Input Voltage (V): 120.0
Input Current (Ain): 0.857
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P882575
 CATALOG NUMBER: NAV-SB2C-735-U-T1

Iso-Footcandle Lines of Horizontal Illumination

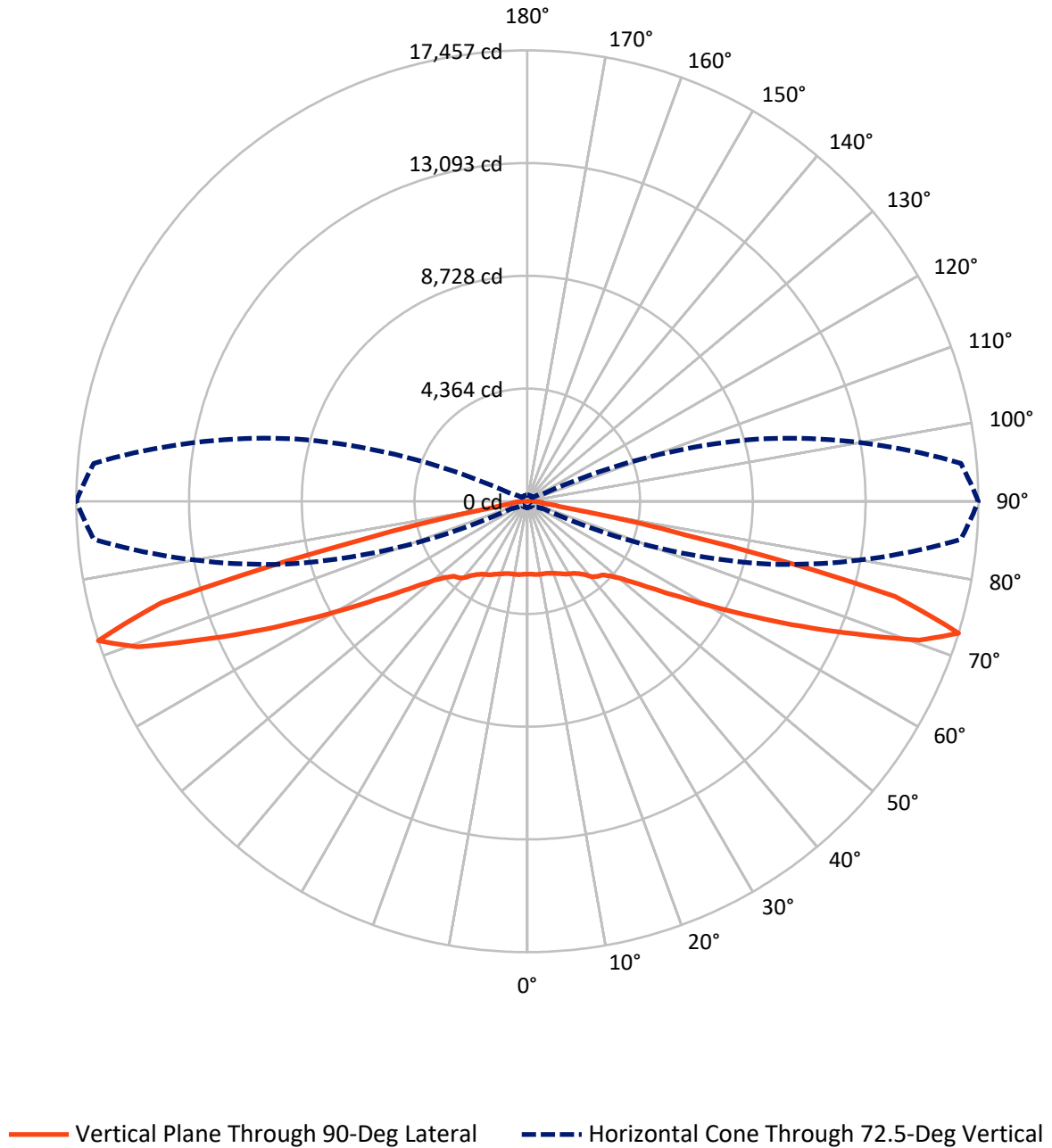
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type I - Short - N/A

REPORT NUMBER: P882575
CATALOG NUMBER: NAV-SB2C-735-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P882575
 CATALOG NUMBER: NAV-SB2C-735-U-T1

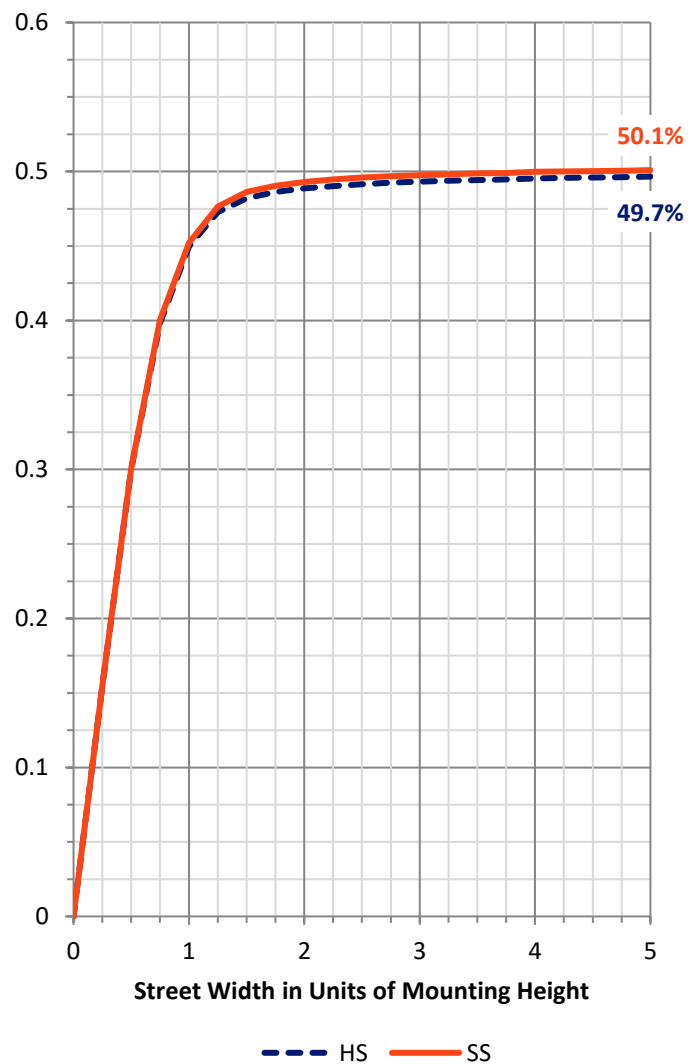
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7550.0	0.0	7550.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7550.0	0.0	7550.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15100.0	0.0	15100.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.6	1.8
10°-20°	836.5	5.5
20°-30°	1394.8	9.2
30°-40°	1918.3	12.7
40°-50°	2342.8	15.5
50°-60°	2709.7	17.9
60°-70°	3230.9	21.4
70°-80°	2254.9	14.9
80°-90°	138.5	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°	15100.0	100.0
0°-180°	15100.0	100.0

Coefficient of Utilization



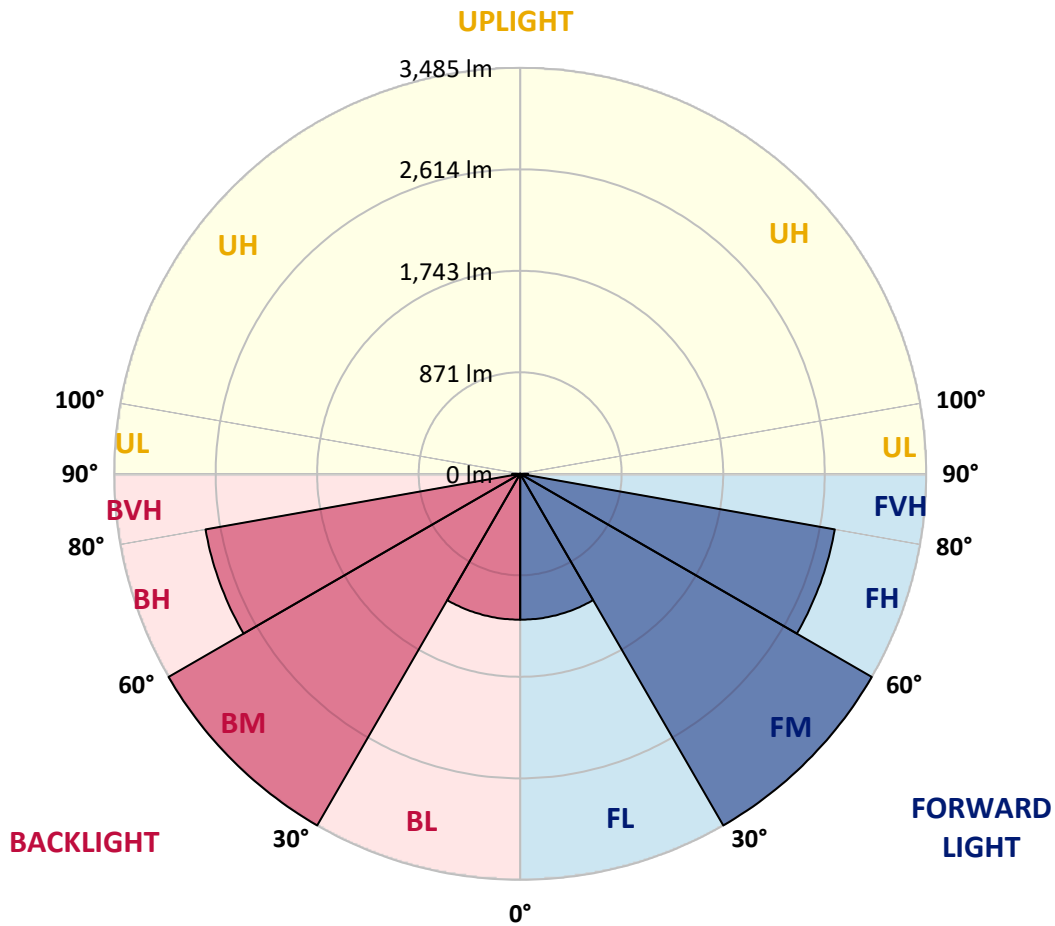
REPORT NUMBER: P882575
 CATALOG NUMBER: NAV-SB2C-735-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1252.5	8.3			
FM (30°-60°)	3485.4	23.1			
FH (60°-80°)	2742.9	18.2			G2/5000
FVH (80°-90°)	69.3	0.5			G1/100
BL (0°-30°)	1252.5	8.3	B3/2500		
BM (30°-60°)	3485.4	23.1	B3/5000		
BH (60°-80°)	2742.9	18.2	B4/5000		G4/5000
BVH (80°-90°)	69.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short



REPORT NUMBER: P882575
 CATALOG NUMBER: NAV-SB2C-735-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2821.6	2821.6	2821.6	2821.6	2821.6	2821.6	2821.6	2821.6	2821.6	2821.6	2821.6
2.5°	2824.0	2827.2	2827.2	2824.8	2830.4	2825.6	2825.6	2823.2	2825.6	2823.2	2823.2
5°	2838.4	2842.5	2844.1	2843.3	2850.5	2846.5	2846.5	2843.3	2844.1	2841.7	2841.7
7.5°	2865.7	2871.3	2874.6	2878.6	2889.0	2884.2	2881.0	2871.3	2867.3	2860.9	2860.9
10°	2874.6	2881.0	2891.4	2912.3	2936.4	2937.2	2927.5	2903.4	2885.0	2870.5	2868.1
12.5°	2847.3	2856.1	2877.8	2920.3	2974.1	2995.7	2980.5	2940.4	2904.3	2878.6	2874.6
15°	2812.8	2822.4	2855.3	2919.5	2998.9	3049.5	3047.9	2994.9	2937.2	2897.0	2890.6
17.5°	2759.0	2768.6	2816.0	2905.9	3018.2	3101.7	3124.1	3069.6	2988.5	2934.7	2925.9
20°	2661.9	2670.7	2736.5	2862.5	3024.6	3157.0	3215.6	3167.5	3066.4	2993.3	2979.7
22.5°	2535.9	2549.5	2626.6	2787.9	3009.4	3214.8	3319.9	3287.0	3157.0	3055.9	3037.5
25°	2401.1	2415.5	2505.4	2696.4	2970.1	3256.6	3443.5	3422.7	3259.8	3133.8	3108.1
27.5°	2284.7	2300.0	2397.9	2605.7	2909.1	3272.6	3565.5	3575.9	3384.1	3219.6	3192.3
30°	2193.2	2207.7	2312.0	2532.7	2830.4	3256.6	3672.2	3744.5	3510.9	3294.3	3254.9
32.5°	2092.9	2111.4	2221.3	2443.6	2737.3	3218.0	3765.3	3926.6	3657.8	3374.5	3324.8
35°	1966.1	1983.0	2098.5	2321.6	2615.4	3156.2	3843.2	4128.9	3868.1	3496.5	3441.1
37.5°	1812.0	1828.1	1942.9	2169.2	2494.2	3069.6	3902.6	4356.8	4118.4	3672.2	3598.4
40°	1657.2	1672.4	1779.9	1999.0	2348.9	2958.8	3923.4	4579.9	4405.7	3913.8	3835.2
42.5°	1515.1	1528.8	1627.5	1831.3	2186.0	2817.6	3896.1	4774.1	4663.3	4082.3	3981.2
45°	1384.3	1396.4	1483.8	1674.0	2016.7	2645.8	3814.3	4982.7	4969.9	4202.7	4066.3
47.5°	1235.0	1247.1	1337.8	1521.5	1847.4	2444.4	3675.5	5188.2	5396.0	4475.5	4318.3
50°	1052.9	1063.3	1156.4	1345.8	1671.6	2230.2	3482.9	5349.5	5933.7	4888.8	4691.4
52.5°	837.0	848.2	938.9	1128.3	1463.0	1999.8	3229.3	5454.6	6554.8	5492.3	5249.2
55°	622.7	630.8	709.4	879.5	1204.6	1737.4	2911.5	5484.3	7259.4	6317.3	6013.1
57.5°	451.8	456.6	507.2	634.0	913.2	1409.2	2525.5	5407.3	8098.0	7375.0	6992.2
60°	365.9	367.5	382.8	439.0	634.8	1038.4	2059.2	5142.4	9008.1	8738.4	8256.1
62.5°	332.2	332.2	336.2	351.5	429.3	685.3	1495.1	4593.5	9983.9	10461.4	9815.4
65°	309.0	309.0	310.6	317.8	338.7	436.6	943.7	3699.5	10806.5	12479.7	11662.8
67.5°	288.1	288.9	288.1	290.5	302.5	322.6	547.3	2555.2	11249.5	14571.0	13689.1
70°	266.4	268.0	264.0	264.0	273.7	274.5	342.7	1401.2	10881.9	16323.7	16091.8
72.5°	240.8	243.2	236.7	235.1	242.4	239.1	257.6	672.5	9342.7	16846.9	17456.8
75°	218.3	221.5	207.0	203.0	203.0	200.6	209.5	345.1	6063.7	13742.8	14699.4
77.5°	198.2	204.6	181.4	168.5	165.3	158.1	170.9	211.1	2652.3	6452.1	6318.1
80°	163.7	172.5	149.3	134.0	128.4	120.4	134.8	147.7	788.9	1498.3	1434.9
82.5°	122.0	126.0	105.9	95.5	90.7	85.1	101.1	102.7	256.8	530.5	599.5
85°	77.8	79.4	65.0	56.2	53.8	51.4	64.2	56.2	97.9	390.0	566.6
87.5°	27.3	31.3	24.9	22.5	24.1	20.1	29.7	16.9	27.3	275.3	341.1
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)