

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: P962458

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962458
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
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: -

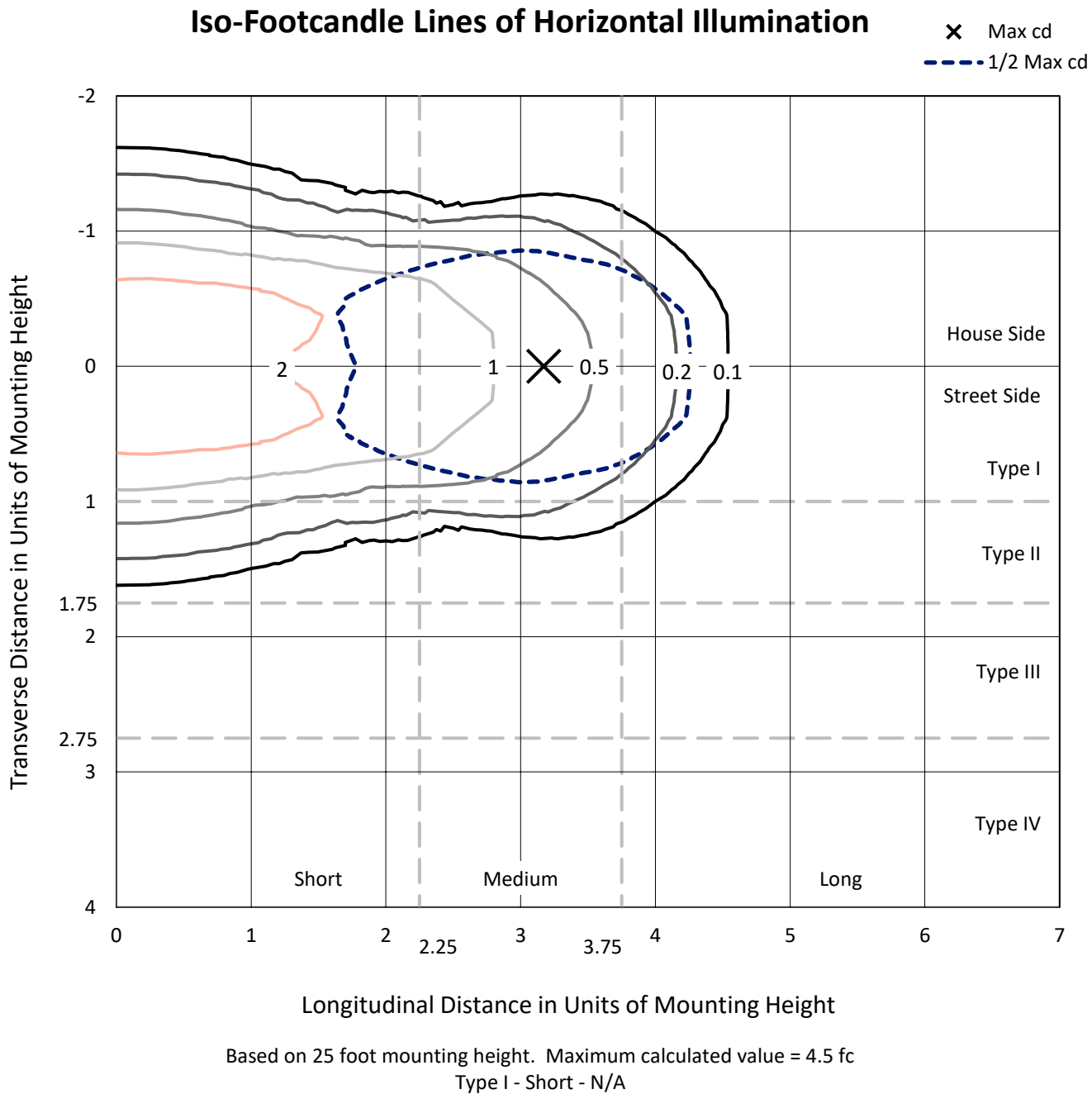
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15186.4 lumens
Efficiency: N/A
Efficacy: 150.5 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): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

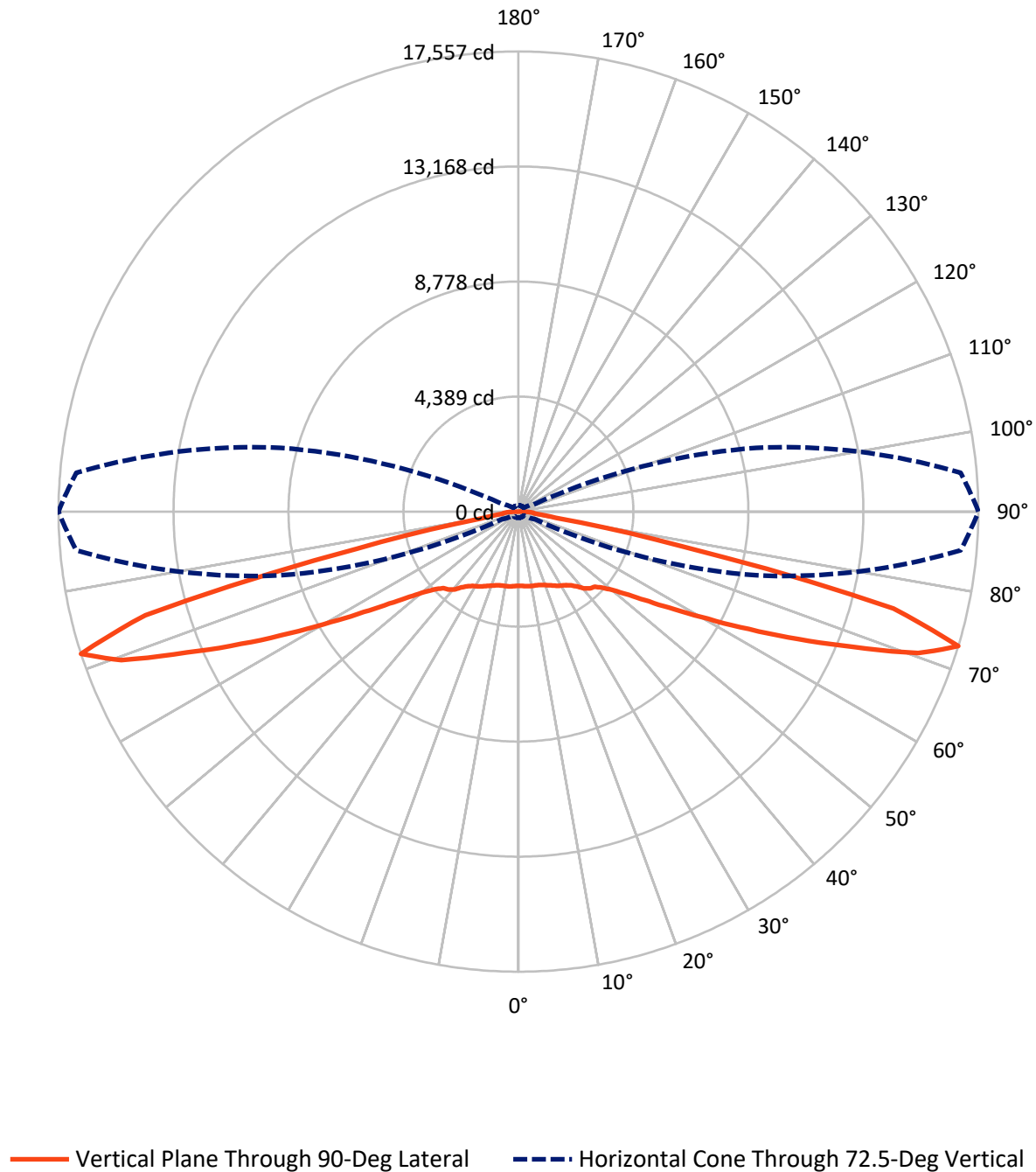


REPORT NUMBER: P962458
CATALOG NUMBER: NAV-SB2C-735-U-T1



REPORT NUMBER: P962458
CATALOG NUMBER: NAV-SB2C-735-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P962458

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

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7593.2	0.0	7593.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7593.2	0.0	7593.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	15186.4	0.0	15186.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.2	1.8
10°-20°	841.3	5.5
20°-30°	1402.8	9.2
30°-40°	1929.3	12.7
40°-50°	2356.2	15.5
50°-60°	2725.2	17.9
60°-70°	3249.3	21.4
70°-80°	2267.8	14.9
80°-90°	139.3	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°	15186.4	100.0
0°-180°	15186.4	100.0

Coefficient of Utilization



REPORT NUMBER: P962458

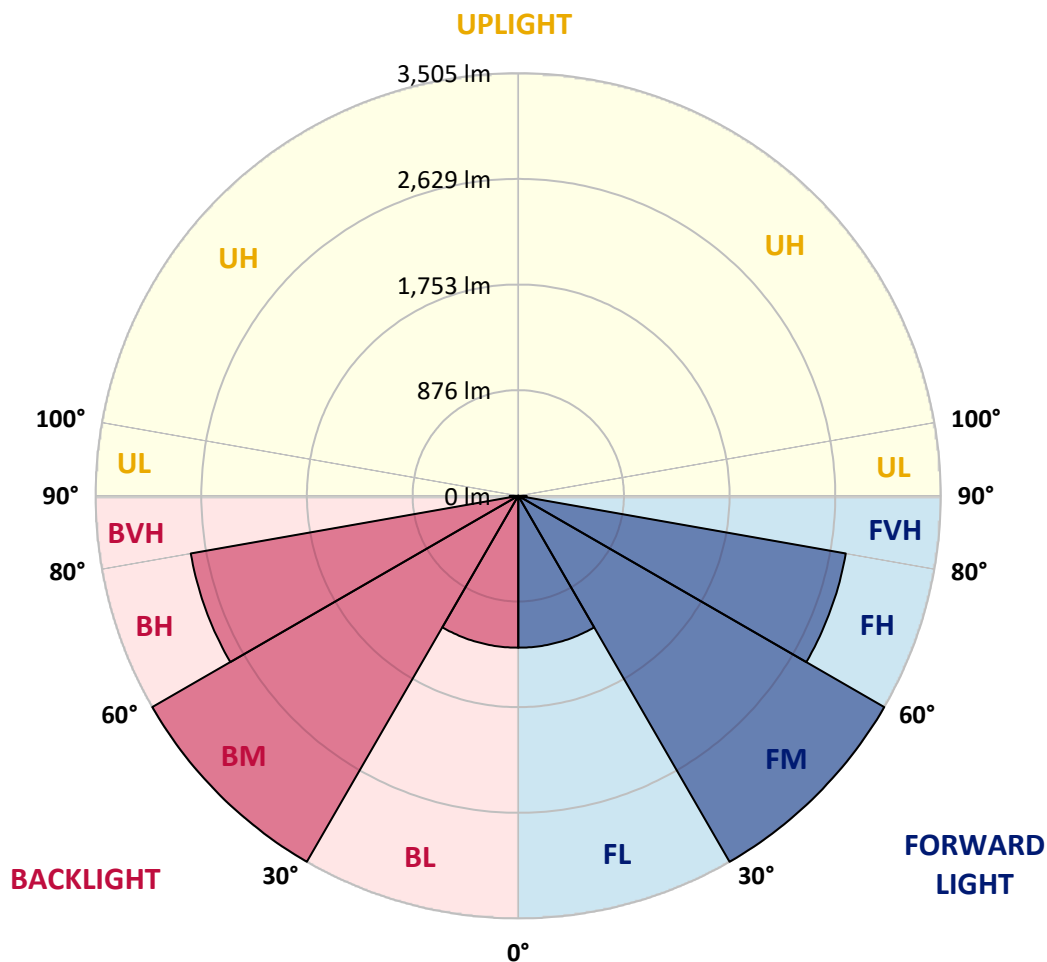
CATALOG NUMBER: NAV-SB2C-735-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1259.6	8.3			
FM	(30°-60°)	3505.3	23.1			
FH	(60°-80°)	2758.6	18.2			G2/5000
FVH	(80°-90°)	69.6	0.5			G1/100
BL	(0°-30°)	1259.6	8.3	B3/2500		
BM	(30°-60°)	3505.3	23.1	B3/5000		
BH	(60°-80°)	2758.6	18.2	B4/5000		G4/5000
BVH	(80°-90°)	69.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short



REPORT NUMBER: P962458

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7
2.5°	2840.2	2843.4	2843.4	2841.0	2846.6	2841.8	2841.8	2839.4	2841.8	2839.4	2839.4
5°	2854.7	2858.7	2860.4	2859.5	2866.8	2862.7	2862.7	2859.5	2860.4	2857.9	2857.9
7.5°	2882.1	2887.7	2891.0	2895.0	2905.6	2900.6	2897.5	2887.7	2883.7	2877.3	2877.3
10°	2891.0	2897.5	2907.9	2928.9	2953.1	2953.9	2944.3	2920.0	2901.5	2887.0	2884.6
12.5°	2863.5	2872.5	2894.2	2937.0	2991.1	3012.9	2997.5	2957.2	2920.8	2895.0	2891.0
15°	2828.9	2838.5	2871.6	2936.2	3016.1	3066.9	3065.4	3012.1	2953.9	2913.6	2907.1
17.5°	2774.8	2784.5	2832.1	2922.5	3035.4	3119.4	3142.0	3087.1	3005.6	2951.6	2942.7
20°	2677.1	2686.0	2752.2	2878.9	3041.9	3175.1	3234.0	3185.6	3083.9	3010.4	2996.7
22.5°	2550.4	2564.1	2641.6	2803.9	3026.6	3233.3	3338.9	3305.8	3175.1	3073.4	3054.8
25°	2414.8	2429.4	2519.8	2711.8	2987.1	3275.2	3463.3	3442.3	3278.5	3151.7	3125.8
27.5°	2297.8	2313.1	2411.6	2620.6	2925.8	3291.3	3586.0	3596.4	3403.5	3238.1	3210.6
30°	2205.8	2220.4	2325.2	2547.2	2846.6	3275.2	3693.3	3765.8	3531.0	3313.1	3273.5
32.5°	2104.9	2123.5	2234.0	2457.6	2752.9	3236.4	3786.9	3949.1	3678.7	3393.9	3343.8
35°	1977.3	1994.3	2110.6	2335.0	2630.4	3174.3	3865.2	4152.5	3890.2	3516.5	3460.8
37.5°	1822.4	1838.5	1954.0	2181.6	2508.5	3087.1	3924.9	4381.7	4142.0	3693.3	3619.0
40°	1666.6	1682.0	1790.2	2010.4	2362.3	2975.8	3945.8	4606.0	4431.0	3936.2	3857.1
42.5°	1523.8	1537.5	1636.8	1841.8	2198.5	2833.7	3918.5	4801.4	4690.0	4105.6	4004.0
45°	1392.3	1404.4	1492.3	1683.6	2028.3	2661.0	3836.1	5011.2	4998.3	4226.8	4089.5
47.5°	1242.1	1254.2	1345.4	1530.2	1857.9	2458.4	3696.5	5217.9	5426.9	4501.2	4342.9
50°	1058.9	1069.4	1163.1	1353.5	1681.2	2242.9	3502.8	5380.1	5967.7	4916.8	4718.3
52.5°	841.8	853.1	944.3	1134.8	1471.3	2011.3	3247.7	5485.8	6592.3	5523.7	5279.2
55°	626.3	634.4	713.5	884.6	1211.4	1747.3	2928.1	5515.6	7301.0	6353.5	6047.5
57.5°	454.4	459.2	510.0	637.7	918.5	1417.3	2540.0	5438.2	8144.3	7417.2	7032.2
60°	368.1	369.6	385.0	441.5	638.4	1044.4	2071.0	5171.8	9059.7	8788.5	8303.4
62.5°	334.2	334.2	338.1	353.5	431.8	689.2	1503.6	4619.8	10041.0	10521.2	9871.6
65°	310.8	310.8	312.3	319.6	340.6	439.0	949.1	3720.7	10868.3	12551.1	11729.5
67.5°	289.8	290.6	289.8	292.1	304.3	324.4	550.4	2569.8	11313.8	14654.4	13767.4
70°	267.9	269.6	265.6	265.6	275.2	276.0	344.6	1409.2	10944.2	16417.1	16183.8
72.5°	242.1	244.6	238.1	236.5	243.7	240.5	259.1	676.3	9396.2	16943.4	17556.7
75°	219.6	222.7	208.3	204.2	204.2	201.8	210.6	347.1	6098.4	13821.5	14783.5
77.5°	199.4	205.8	182.4	169.5	166.3	159.0	171.9	212.3	2667.5	6489.1	6354.3
80°	164.6	173.5	150.2	134.8	129.1	121.1	135.6	148.5	793.3	1506.9	1443.1
82.5°	122.7	126.7	106.5	96.0	91.2	85.6	101.7	103.3	258.3	533.5	602.9
85°	78.3	79.9	65.4	56.5	54.1	51.7	64.6	56.5	98.5	392.3	569.8
87.5°	27.5	31.5	25.0	22.5	24.2	20.2	29.8	16.9	27.5	276.9	343.0
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)