

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: P966660

Luminaire Tested: **NAV-SB4C-735-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966660
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4C-735-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31119 lumens
Efficiency: N/A
Efficacy: 155.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 200.7
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

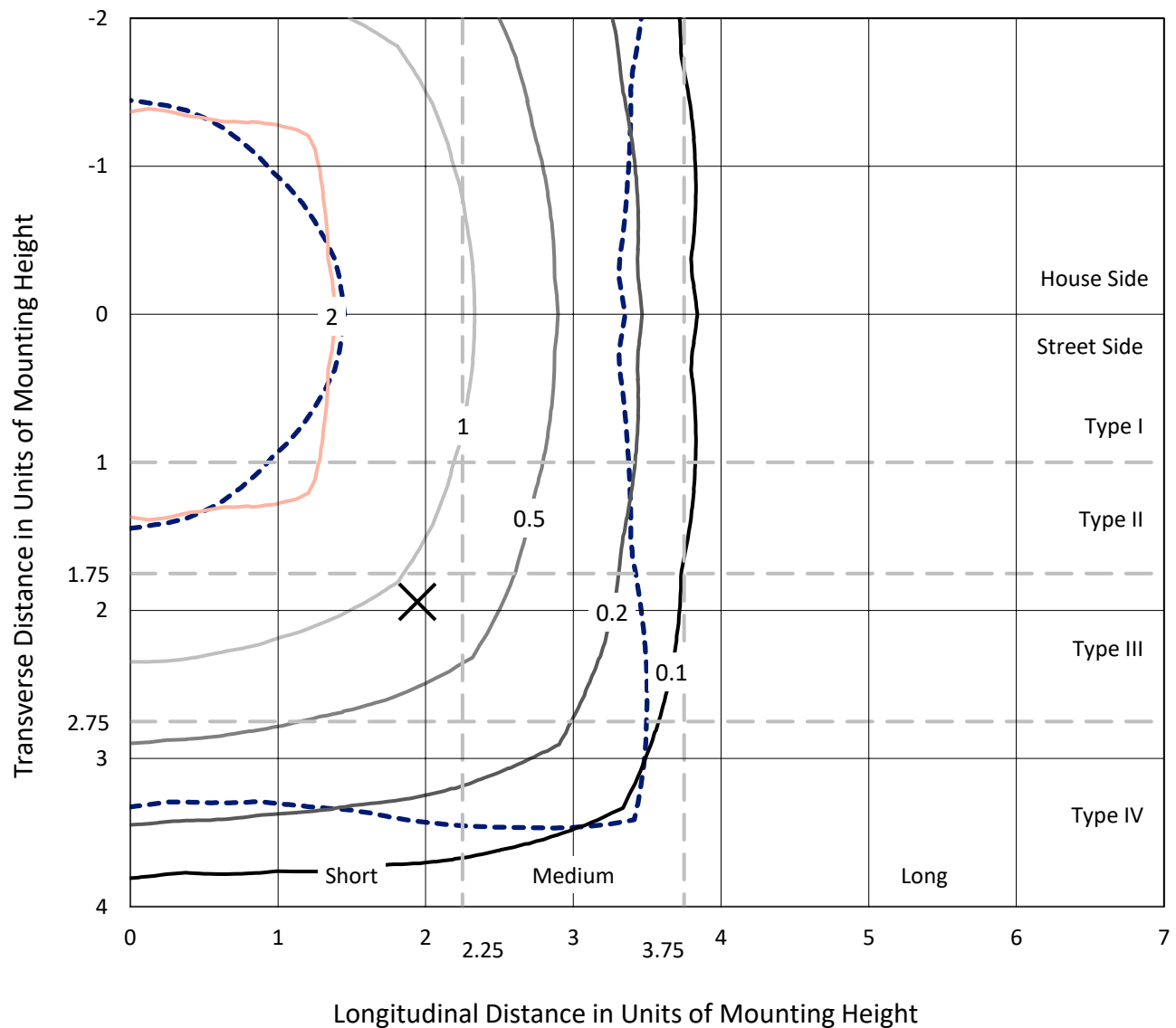


REPORT NUMBER: P966660

CATALOG NUMBER: NAV-SB4C-735-U-5WQ

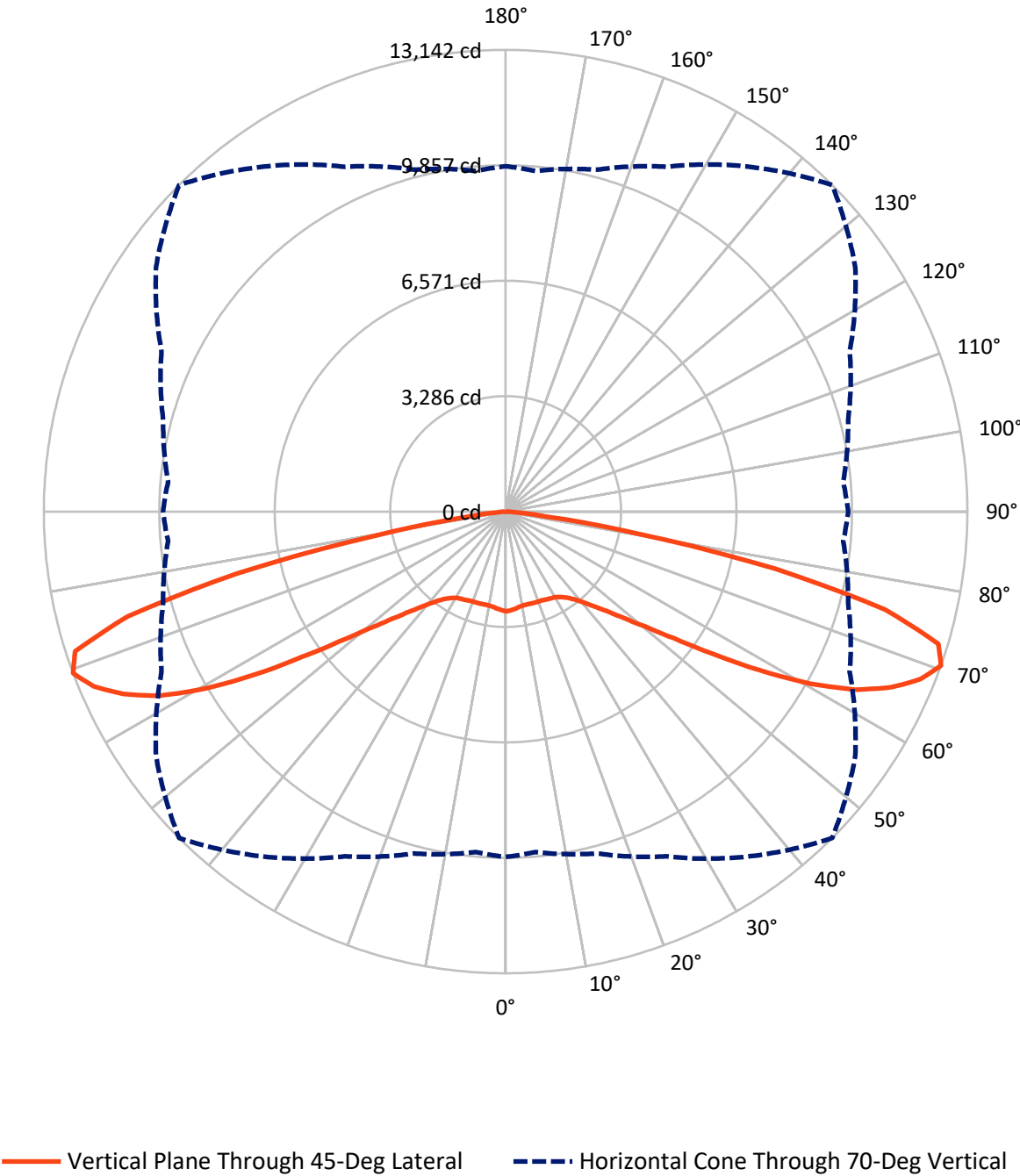
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



REPORT NUMBER: P966660
CATALOG NUMBER: NAV-SB4C-735-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P966660

CATALOG NUMBER: NAV-SB4C-735-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15559.5	0.0	15559.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15559.5	0.0	15559.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	31119.0	0.0	31119.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.1	0.8
10°-20°	775.4	2.5
20°-30°	1290.3	4.1
30°-40°	1951.3	6.3
40°-50°	3242.7	10.4
50°-60°	6118.8	19.7
60°-70°	10331.8	33.2
70°-80°	6789.1	21.8
80°-90°	355.7	1.1
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°	31119.0	100.0
0°-180°	31119.0	100.0

Coefficient of Utilization



REPORT NUMBER: P966660

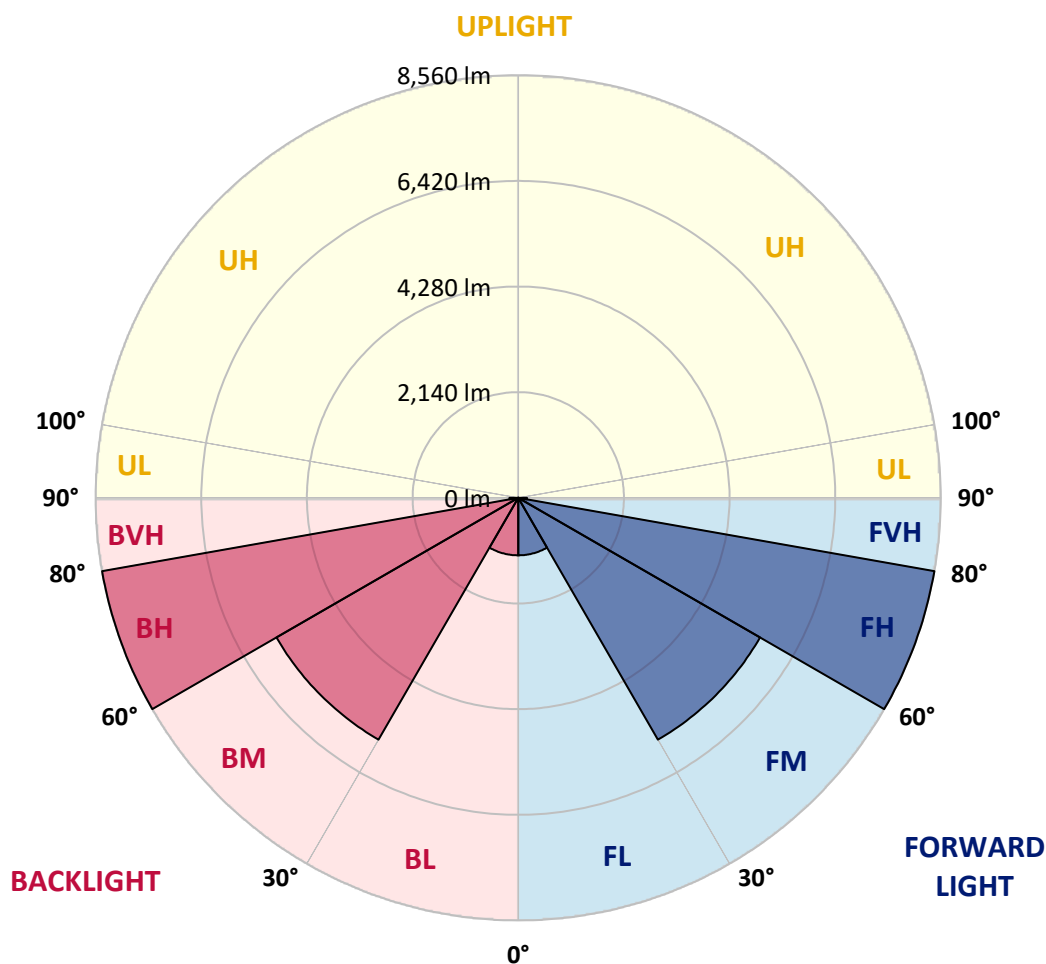
CATALOG NUMBER: NAV-SB4C-735-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1164.9	3.7			
FM	(30°-60°)	5656.4	18.2			
FH	(60°-80°)	8560.4	27.5			G4/12000
FVH	(80°-90°)	177.8	0.6			G2/225
BL	(0°-30°)	1164.9	3.7	B3/2500		
BM	(30°-60°)	5656.4	18.2	B4/8500		
BH	(60°-80°)	8560.4	27.5	B5		G4/12000
BVH	(80°-90°)	177.8	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



REPORT NUMBER: P966660

CATALOG NUMBER: NAV-SB4C-735-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2838.6	2838.6	2838.6	2838.6	2838.6	2838.6	2838.6	2838.6	2838.6	2838.6	2838.6
2.5°	2820.9	2829.0	2825.7	2819.3	2819.3	2814.4	2819.3	2822.5	2827.4	2830.6	2829.0
5°	2783.7	2790.2	2788.5	2783.7	2785.3	2780.4	2783.7	2788.5	2791.8	2793.4	2793.4
7.5°	2751.3	2757.8	2754.6	2746.5	2746.5	2741.7	2743.2	2748.1	2752.9	2754.6	2754.6
10°	2743.2	2749.8	2740.0	2727.1	2722.2	2715.7	2717.4	2722.2	2731.9	2736.7	2736.7
12.5°	2746.5	2751.3	2741.7	2722.2	2717.4	2710.9	2710.9	2715.7	2728.7	2735.1	2736.7
15°	2756.2	2761.0	2746.5	2725.5	2720.6	2715.7	2714.1	2720.6	2735.1	2746.5	2748.1
17.5°	2774.0	2778.9	2756.2	2727.1	2720.6	2722.2	2720.6	2725.5	2748.1	2769.1	2769.1
20°	2790.2	2793.4	2762.7	2727.1	2720.6	2722.2	2720.6	2730.3	2759.4	2788.5	2790.2
22.5°	2795.0	2798.2	2769.1	2738.4	2733.6	2735.1	2733.6	2743.2	2770.8	2799.9	2799.9
25°	2796.6	2801.4	2778.9	2754.6	2762.7	2765.9	2762.7	2764.3	2785.3	2811.2	2809.5
27.5°	2820.9	2827.4	2806.3	2785.3	2790.2	2788.5	2793.4	2798.2	2814.4	2840.3	2833.8
30°	2871.0	2875.8	2858.1	2837.1	2833.8	2822.5	2837.1	2853.2	2871.0	2893.7	2888.9
32.5°	2953.5	2963.3	2940.6	2918.0	2903.4	2897.0	2908.2	2935.7	2960.0	2984.3	2974.5
35°	3091.0	3097.4	3076.4	3034.4	3008.5	3008.5	3018.2	3053.8	3092.6	3123.4	3112.0
37.5°	3285.1	3293.2	3256.0	3205.9	3167.0	3167.0	3180.0	3217.2	3275.4	3319.1	3302.9
40°	3521.3	3532.6	3485.7	3434.0	3396.7	3390.3	3406.4	3448.5	3503.4	3558.5	3540.7
42.5°	3805.9	3818.8	3757.4	3712.1	3683.0	3683.0	3691.1	3729.9	3780.1	3848.0	3843.1
45°	4169.9	4192.6	4108.4	4063.1	4035.6	4042.1	4046.9	4080.9	4126.2	4203.8	4200.6
47.5°	4603.4	4626.0	4537.1	4490.1	4485.3	4516.0	4496.6	4520.9	4545.2	4634.1	4608.2
50°	5095.1	5133.9	5072.4	5069.1	5078.9	5135.5	5090.3	5103.2	5075.7	5132.3	5098.3
52.5°	5696.7	5753.4	5742.0	5761.4	5869.9	5986.3	5882.8	5837.5	5734.0	5751.8	5691.9
55°	6426.2	6512.0	6528.1	6644.6	6890.5	7128.3	6908.3	6725.5	6505.5	6465.1	6401.9
57.5°	7256.0	7323.9	7401.6	7639.3	8098.7	8520.9	8098.7	7694.4	7348.2	7265.7	7207.5
60°	8148.9	8233.0	8307.4	8658.4	9340.9	9934.6	9328.0	8685.8	8228.1	8116.6	8019.5
62.5°	9108.0	9216.4	9268.2	9658.0	10453.8	11162.2	10465.1	9687.1	9179.2	9059.5	8962.5
65°	10028.4	10117.4	10175.6	10591.2	11351.5	12061.6	11403.2	10636.5	10114.1	9957.3	9879.6
67.5°	10457.0	10505.5	10647.9	11118.6	11920.9	12731.2	12056.7	11168.7	10584.8	10309.9	10313.0
70°	9829.4	9730.7	10073.7	10827.4	11988.8	13142.0	12144.1	10804.7	10089.9	9643.4	9750.2
72.5°	7595.7	7425.8	8021.1	9310.2	11212.4	12880.0	11290.1	9383.1	8391.5	7485.7	7710.6
75°	4132.7	3940.2	4761.8	6392.3	8941.5	11163.9	9146.9	6575.1	5302.1	4101.9	4368.9
77.5°	1166.2	1093.4	1756.5	3092.6	5378.2	7838.3	5585.1	3160.6	2083.3	1235.7	1373.2
80°	357.4	346.1	469.0	931.6	2283.9	3754.2	2194.9	943.0	596.9	376.9	397.9
82.5°	211.9	194.1	232.9	339.7	582.3	1179.2	566.1	354.2	284.6	190.9	207.0
85°	121.4	113.3	137.5	165.0	195.7	250.7	163.4	168.2	152.0	101.9	106.8
87.5°	50.1	45.3	53.4	51.8	45.3	58.2	43.7	51.8	61.5	40.5	37.2
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)