

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: P966598

Luminaire Tested: **NAV-SB4C-727-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966598
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-727-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28864 lumens
Efficiency: N/A
Efficacy: 143.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

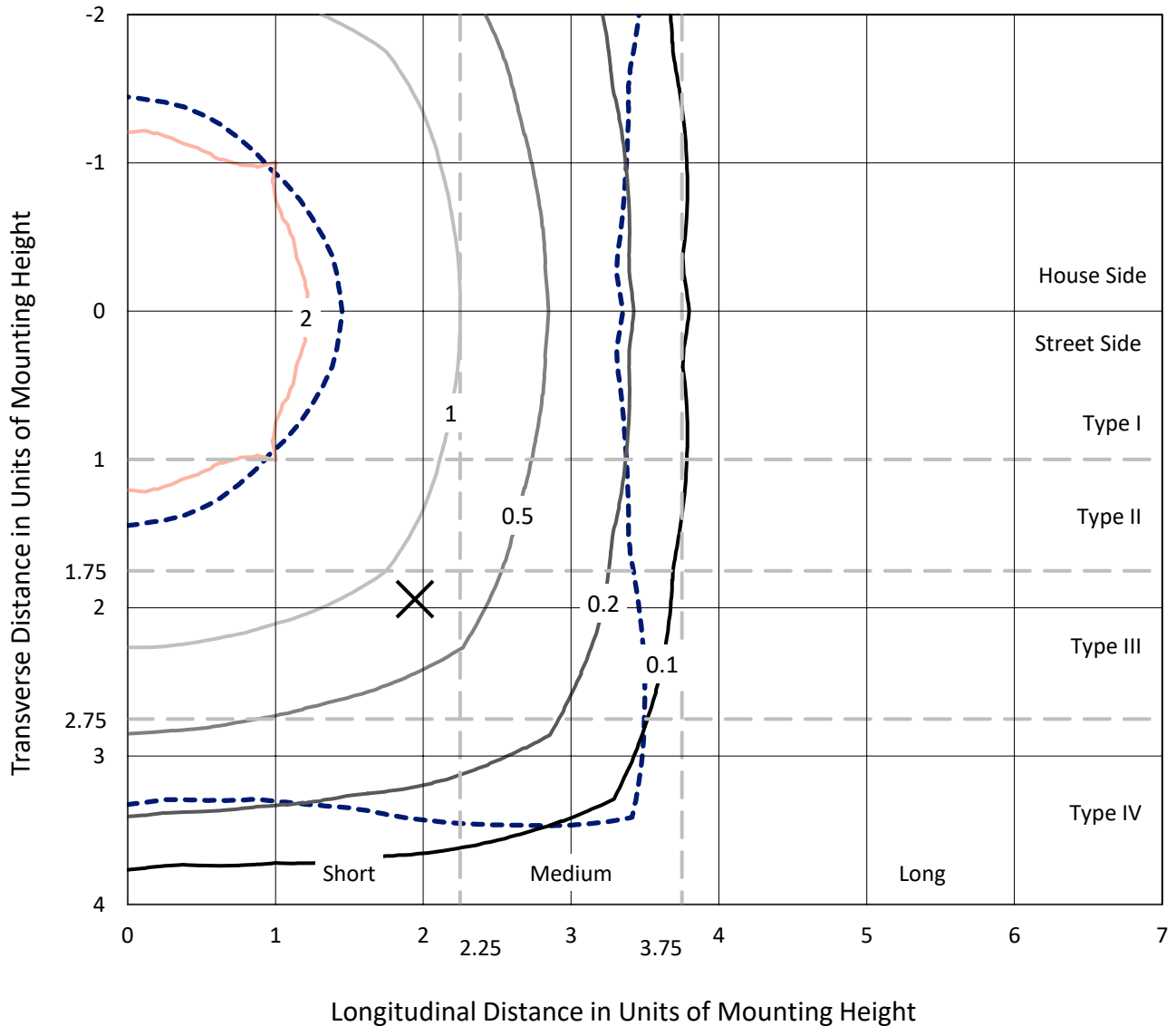
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

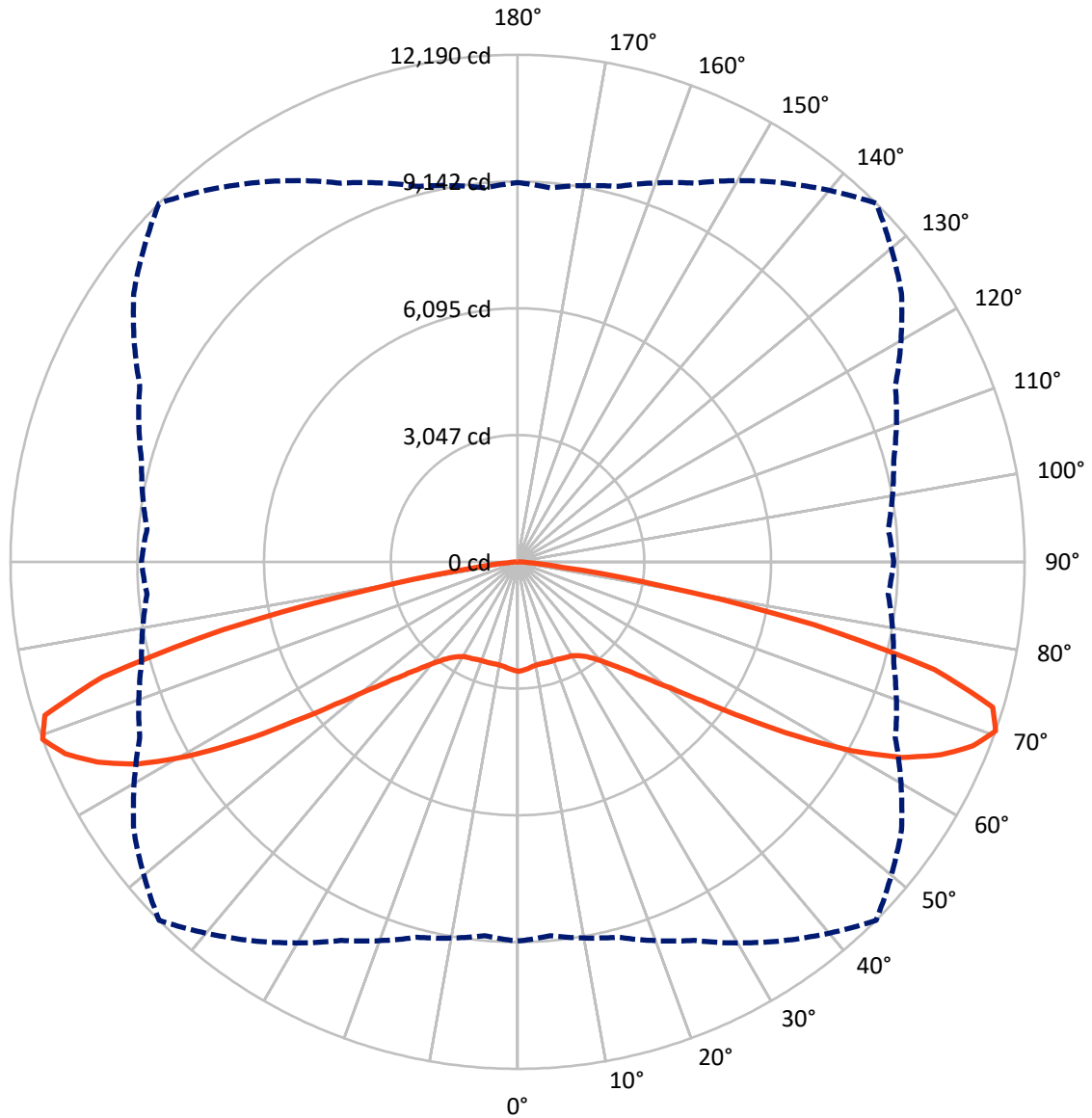
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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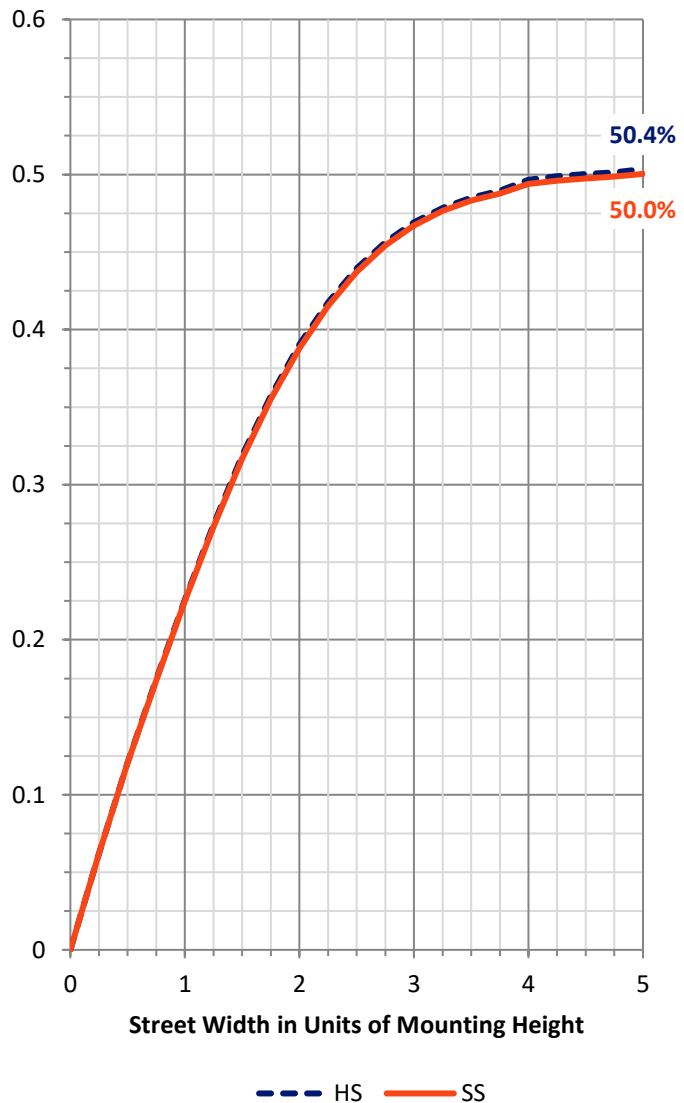
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14432.0	0.0	14432.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14432.0	0.0	14432.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	28864.0	0.0	28864.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.9	0.8
10°-20°	719.2	2.5
20°-30°	1196.8	4.1
30°-40°	1809.9	6.3
40°-50°	3007.7	10.4
50°-60°	5675.4	19.7
60°-70°	9583.1	33.2
70°-80°	6297.1	21.8
80°-90°	329.9	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°	28864.0	100.0
0°-180°	28864.0	100.0

Coefficient of Utilization

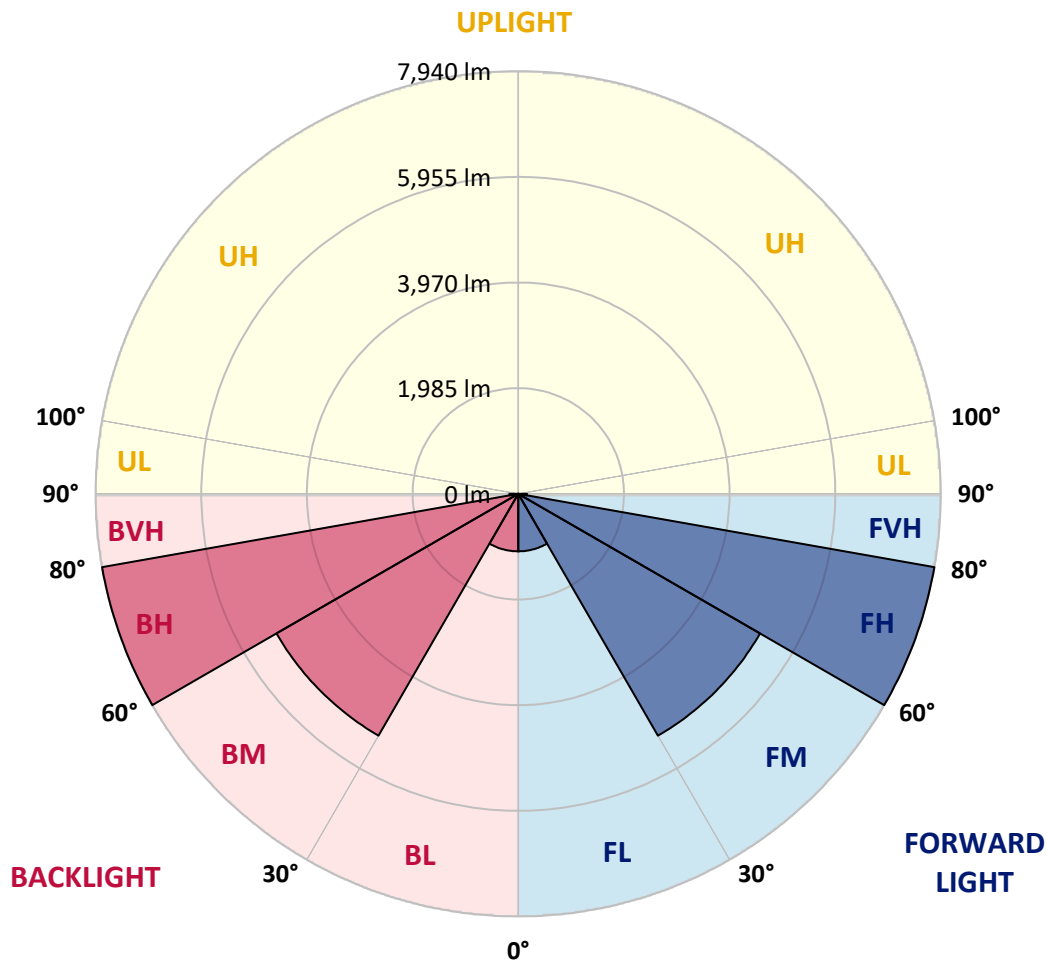


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1080.5	3.7			
FM (30°-60°)	5246.5	18.2			
FH (60°-80°)	7940.1	27.5			G4/12000
FVH (80°-90°)	164.9	0.6			G2/225
BL (0°-30°)	1080.5	3.7	B3/2500		
BM (30°-60°)	5246.5	18.2	B4/8500		
BH (60°-80°)	7940.1	27.5	B5		G4/12000
BVH (80°-90°)	164.9	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2633.0	2633.0	2633.0	2633.0	2633.0	2633.0	2633.0	2633.0	2633.0	2633.0	2633.0
2.5°	2616.5	2624.0	2620.9	2615.0	2615.0	2610.5	2615.0	2618.0	2622.5	2625.4	2624.0
5°	2582.0	2587.9	2586.5	2582.0	2583.5	2579.0	2582.0	2586.5	2589.5	2591.0	2591.0
7.5°	2551.9	2558.0	2554.9	2547.4	2547.4	2542.9	2544.5	2549.0	2553.5	2554.9	2554.9
10°	2544.5	2550.5	2541.5	2529.5	2525.0	2518.9	2520.5	2525.0	2534.0	2538.4	2538.4
12.5°	2547.4	2551.9	2542.9	2525.0	2520.5	2514.4	2514.4	2518.9	2530.9	2537.0	2538.4
15°	2556.5	2561.0	2547.4	2528.0	2523.4	2518.9	2517.5	2523.4	2537.0	2547.4	2549.0
17.5°	2573.0	2577.5	2556.5	2529.5	2523.4	2525.0	2523.4	2528.0	2549.0	2568.4	2568.4
20°	2587.9	2591.0	2562.5	2529.5	2523.4	2525.0	2523.4	2532.5	2559.4	2586.5	2587.9
22.5°	2592.4	2595.5	2568.4	2540.0	2535.4	2537.0	2535.4	2544.5	2570.0	2596.9	2596.9
25°	2594.0	2598.5	2577.5	2554.9	2562.5	2565.5	2562.5	2563.9	2583.5	2607.5	2606.0
27.5°	2616.5	2622.5	2603.0	2583.5	2587.9	2586.5	2591.0	2595.5	2610.5	2634.5	2628.5
30°	2663.0	2667.5	2651.0	2631.5	2628.5	2618.0	2631.5	2646.4	2663.0	2684.0	2679.5
32.5°	2739.5	2748.5	2727.5	2706.5	2693.0	2687.0	2697.5	2723.0	2745.5	2768.0	2759.0
35°	2867.0	2873.0	2853.5	2814.5	2790.5	2790.5	2799.5	2832.5	2868.6	2897.1	2886.5
37.5°	3047.0	3054.6	3020.1	2973.5	2937.5	2937.5	2949.5	2984.1	3038.1	3078.6	3063.5
40°	3266.1	3276.6	3233.1	3185.1	3150.5	3144.6	3159.6	3198.6	3249.6	3300.6	3284.1
42.5°	3530.1	3542.1	3485.1	3443.1	3416.1	3416.1	3423.6	3459.6	3506.1	3569.2	3564.6
45°	3867.7	3888.7	3810.6	3768.7	3743.2	3749.1	3753.7	3785.2	3827.1	3899.2	3896.2
47.5°	4269.7	4290.8	4208.2	4164.8	4160.3	4188.8	4170.7	4193.3	4215.7	4298.2	4274.2
50°	4725.9	4761.8	4704.9	4701.9	4710.9	4763.4	4721.4	4733.3	4707.8	4760.4	4728.8
52.5°	5284.0	5336.5	5326.0	5343.9	5444.5	5552.5	5456.5	5414.5	5318.4	5334.9	5279.5
55°	5960.6	6040.1	6055.1	6163.1	6391.2	6611.7	6407.7	6238.2	6034.1	5996.6	5938.0
57.5°	6730.3	6793.2	6865.2	7085.8	7511.8	7903.5	7511.8	7136.8	6815.7	6739.3	6685.3
60°	7558.4	7636.4	7705.4	8031.0	8664.1	9214.6	8652.0	8056.5	7631.8	7528.3	7438.3
62.5°	8448.0	8548.6	8596.6	8958.1	9696.3	10353.4	9706.8	8985.2	8514.1	8403.1	8313.1
65°	9301.7	9384.2	9438.2	9823.8	10528.9	11187.6	10576.9	9865.8	9381.2	9235.7	9163.7
67.5°	9699.3	9744.3	9876.3	10312.8	11057.0	11808.6	11183.1	10359.4	9817.8	9562.7	9565.7
70°	9117.2	9025.6	9343.7	10042.8	11120.0	12189.7	11264.0	10021.8	9358.7	8944.7	9043.7
72.5°	7045.2	6887.8	7439.9	8635.5	10399.9	11946.7	10471.9	8703.1	7783.4	6943.2	7151.8
75°	3833.2	3654.6	4416.8	5929.1	8293.5	10354.9	8484.0	6098.6	4917.8	3804.7	4052.2
77.5°	1081.7	1014.1	1629.3	2868.6	4988.4	7270.3	5180.5	2931.5	1932.3	1146.3	1273.8
80°	331.6	321.0	435.1	864.2	2118.4	3482.1	2035.9	874.6	553.6	349.5	369.1
82.5°	196.5	180.0	216.1	315.1	540.1	1093.7	525.1	328.5	264.0	177.0	192.1
85°	112.5	105.1	127.5	153.0	181.5	232.6	151.5	156.0	141.0	94.5	99.0
87.5°	46.5	42.0	49.5	48.0	42.0	54.0	40.5	48.0	57.0	37.5	34.5
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)