

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: P970287

Luminaire Tested: **NAV-SB6B-727-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970287
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-SB6B-727-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32837.9 lumens
Efficiency: N/A
Efficacy: 149.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

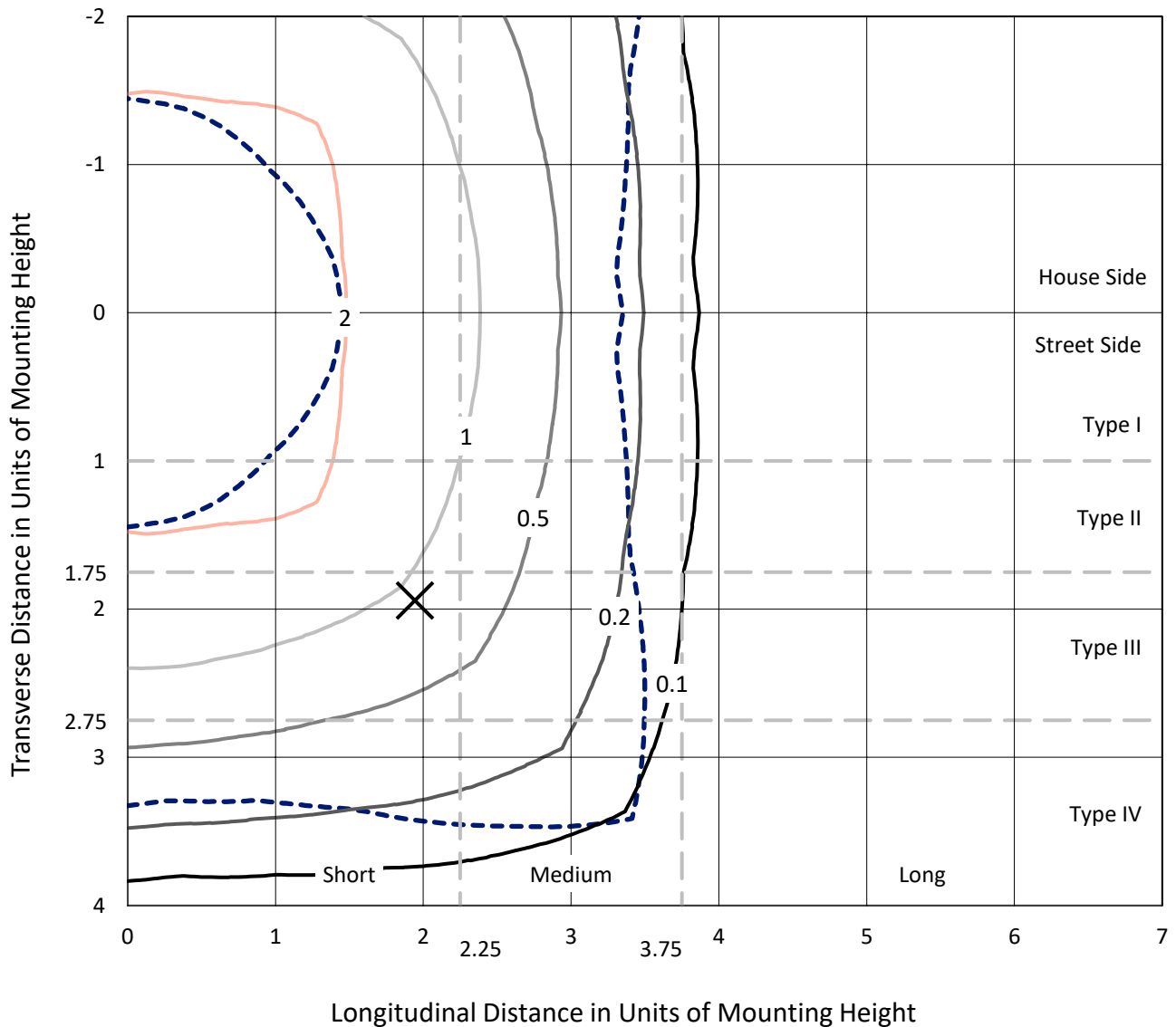
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

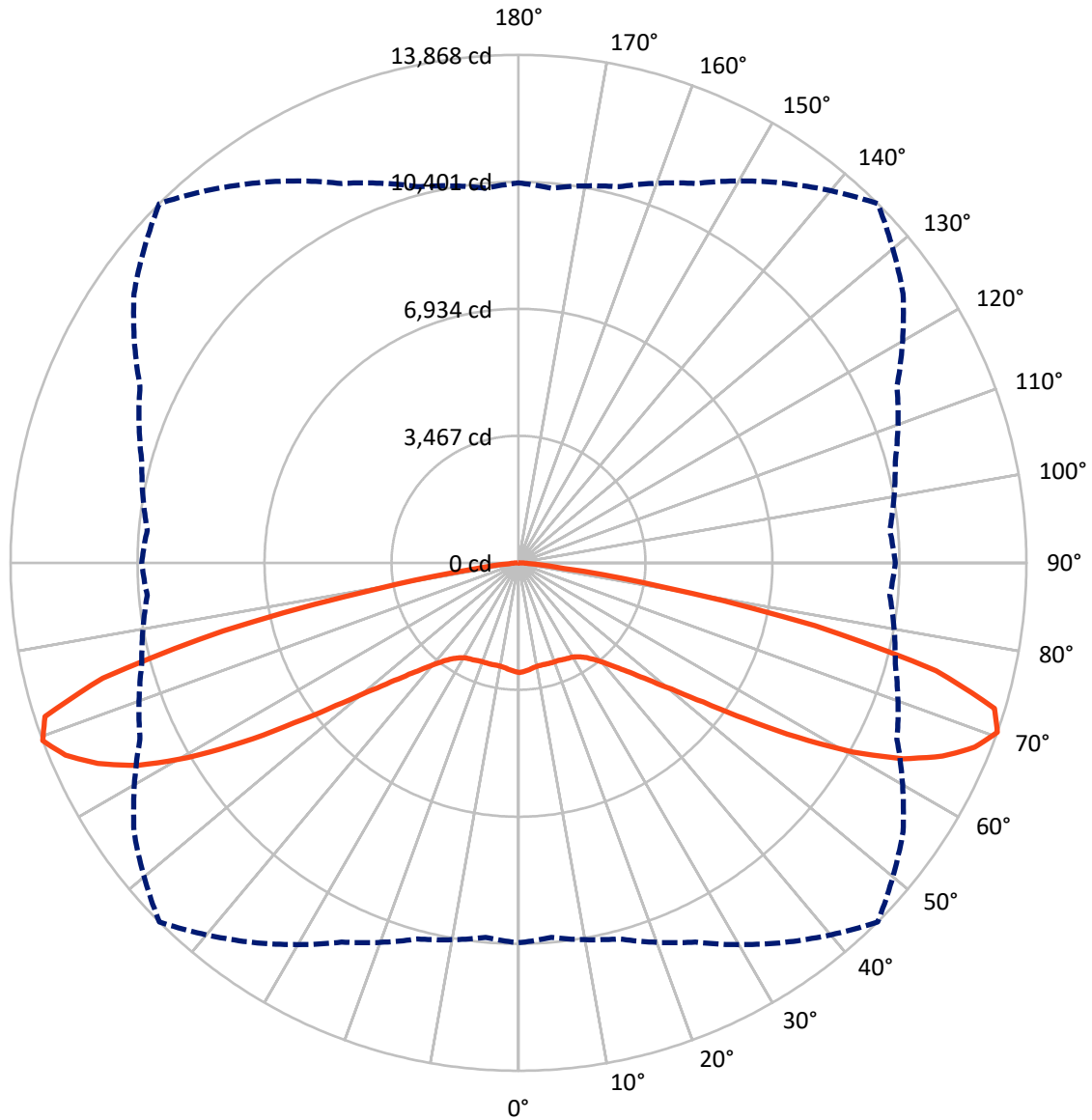
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	16419.0	0.0	16419.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16419.0	0.0	16419.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	32837.9	0.0	32837.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.7	0.8
10°-20°	818.2	2.5
20°-30°	1361.6	4.1
30°-40°	2059.1	6.3
40°-50°	3421.8	10.4
50°-60°	6456.7	19.7
60°-70°	10902.5	33.2
70°-80°	7164.1	21.8
80°-90°	375.3	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°	32837.9	100.0
0°-180°	32837.9	100.0

Coefficient of Utilization

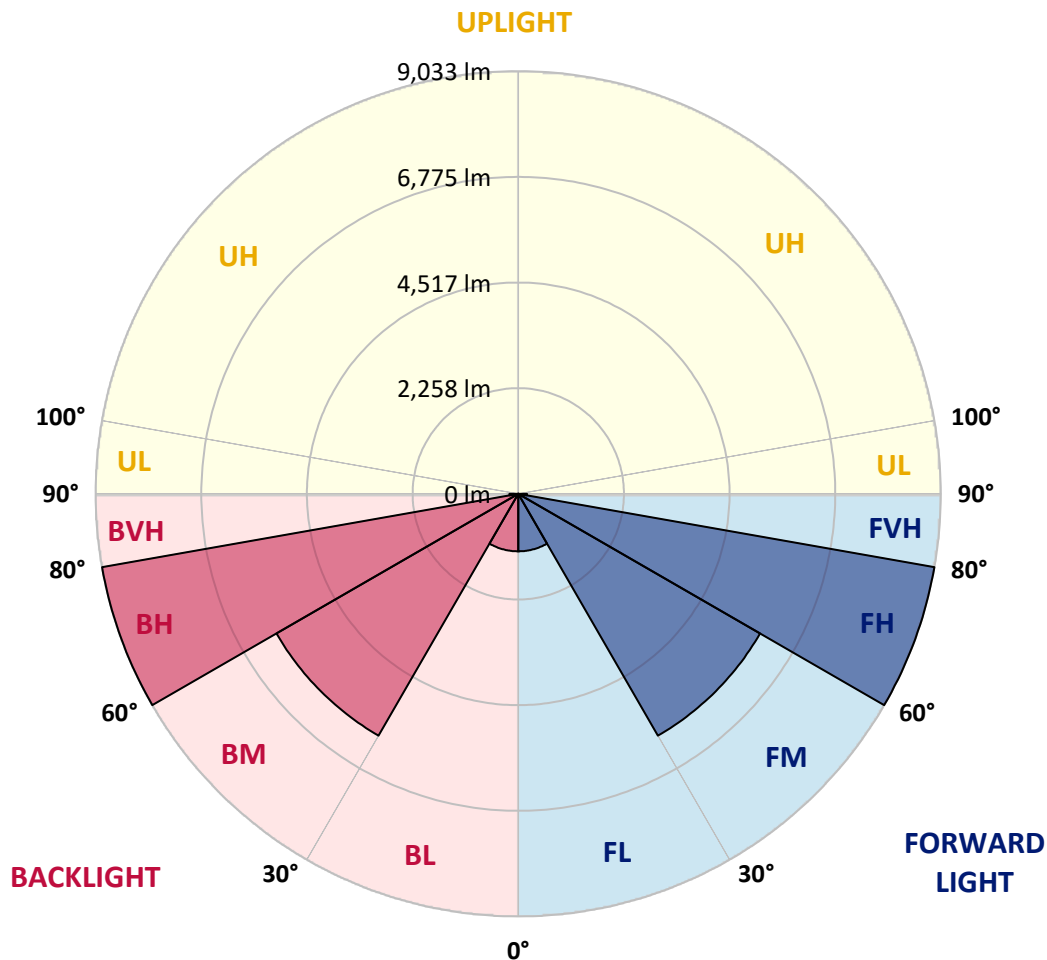


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1229.2	3.7			
FM (30°-60°)	5968.8	18.2			
FH (60°-80°)	9033.3	27.5			G4/12000
FVH (80°-90°)	187.7	0.6			G2/225
BL (0°-30°)	1229.2	3.7	B3/2500		
BM (30°-60°)	5968.8	18.2	B4/8500		
BH (60°-80°)	9033.3	27.5	B5		G4/12000
BVH (80°-90°)	187.7	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°	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5
2.5°	2976.7	2985.2	2981.8	2975.0	2975.0	2969.8	2975.0	2978.4	2983.6	2987.0	2985.2
5°	2937.4	2944.3	2942.6	2937.4	2939.2	2934.1	2937.4	2942.6	2946.0	2947.7	2947.7
7.5°	2903.3	2910.2	2906.7	2898.2	2898.2	2893.1	2894.8	2899.9	2905.1	2906.7	2906.7
10°	2894.8	2901.6	2891.3	2877.7	2872.6	2865.8	2867.4	2872.6	2882.8	2887.9	2887.9
12.5°	2898.2	2903.3	2893.1	2872.6	2867.4	2860.7	2860.7	2865.8	2879.4	2886.2	2887.9
15°	2908.4	2913.6	2898.2	2876.0	2870.9	2865.8	2864.1	2870.9	2886.2	2898.2	2899.9
17.5°	2927.2	2932.3	2908.4	2877.7	2870.9	2872.6	2870.9	2876.0	2899.9	2922.1	2922.1
20°	2944.3	2947.7	2915.3	2877.7	2870.9	2872.6	2870.9	2881.2	2911.8	2942.6	2944.3
22.5°	2949.4	2952.8	2922.1	2889.7	2884.6	2886.2	2884.6	2894.8	2923.8	2954.6	2954.6
25°	2951.1	2956.2	2932.3	2906.7	2915.3	2918.7	2915.3	2916.9	2939.2	2966.5	2964.7
27.5°	2976.7	2983.6	2961.3	2939.2	2944.3	2942.6	2947.7	2952.8	2969.8	2997.2	2990.3
30°	3029.6	3034.7	3016.0	2993.8	2990.3	2978.4	2993.8	3010.8	3029.6	3053.5	3048.4
32.5°	3116.6	3126.9	3103.0	3079.1	3063.7	3057.0	3068.8	3097.9	3123.5	3149.1	3138.9
35°	3261.8	3268.6	3246.4	3202.0	3174.7	3174.7	3185.0	3222.5	3263.5	3295.9	3283.9
37.5°	3466.6	3475.1	3435.8	3382.9	3342.0	3342.0	3355.6	3394.9	3456.3	3502.4	3485.3
40°	3715.7	3727.7	3678.2	3623.6	3584.3	3577.6	3594.6	3639.0	3697.0	3755.0	3736.2
42.5°	4016.2	4029.8	3965.0	3917.1	3886.5	3886.5	3895.0	3935.9	3988.9	4060.5	4055.4
45°	4400.2	4424.1	4335.3	4287.6	4258.6	4265.3	4270.5	4306.3	4354.1	4436.0	4432.6
47.5°	4857.6	4881.6	4787.7	4738.2	4733.0	4765.4	4744.9	4770.6	4796.2	4890.1	4862.7
50°	5376.5	5417.4	5352.7	5349.2	5359.4	5419.2	5371.4	5385.0	5356.0	5415.8	5379.9
52.5°	6011.4	6071.2	6059.2	6079.7	6194.1	6317.0	6207.7	6159.9	6050.7	6069.4	6006.3
55°	6781.2	6871.7	6888.7	7011.6	7271.0	7522.0	7289.9	7097.0	6864.8	6822.2	6755.6
57.5°	7656.9	7728.5	7810.4	8061.3	8546.0	8991.6	8546.0	8119.3	7754.1	7667.1	7605.6
60°	8599.0	8687.7	8766.2	9136.6	9856.9	10483.3	9843.3	9165.7	8682.7	8564.9	8462.4
62.5°	9611.1	9725.5	9780.1	10191.5	11031.3	11778.8	11043.1	10222.2	9686.2	9560.0	9457.6
65°	10582.3	10676.2	10737.6	11176.3	11978.5	12727.8	12033.1	11224.1	10672.8	10507.2	10425.3
67.5°	11034.6	11085.8	11236.0	11732.8	12579.3	13434.5	12722.7	11785.7	11169.4	10879.3	10882.7
70°	10372.4	10268.2	10630.1	11425.5	12651.0	13867.9	12814.9	11401.6	10647.2	10176.1	10288.7
72.5°	8015.3	7836.0	8464.1	9824.5	11831.7	13591.5	11913.7	9901.3	8855.0	7899.2	8136.4
75°	4361.0	4157.8	5024.9	6745.4	9435.3	11780.5	9652.1	6938.2	5595.0	4328.5	4610.1
77.5°	1230.6	1153.8	1853.6	3263.5	5675.2	8271.2	5893.6	3335.1	2198.4	1304.0	1449.1
80°	377.2	365.3	495.0	983.2	2410.1	3961.5	2316.2	995.1	629.9	397.7	419.8
82.5°	223.6	204.8	245.8	358.4	614.5	1244.2	597.4	373.8	300.4	201.4	218.4
85°	128.0	119.5	145.0	174.1	206.5	264.6	172.4	177.5	160.4	107.5	112.6
87.5°	52.9	47.8	56.4	54.6	47.8	61.4	46.1	54.6	64.9	42.6	39.3
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)