

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: P884072

Luminaire Tested: **NAV-SB4D-722-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884072
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4D-722-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33241 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

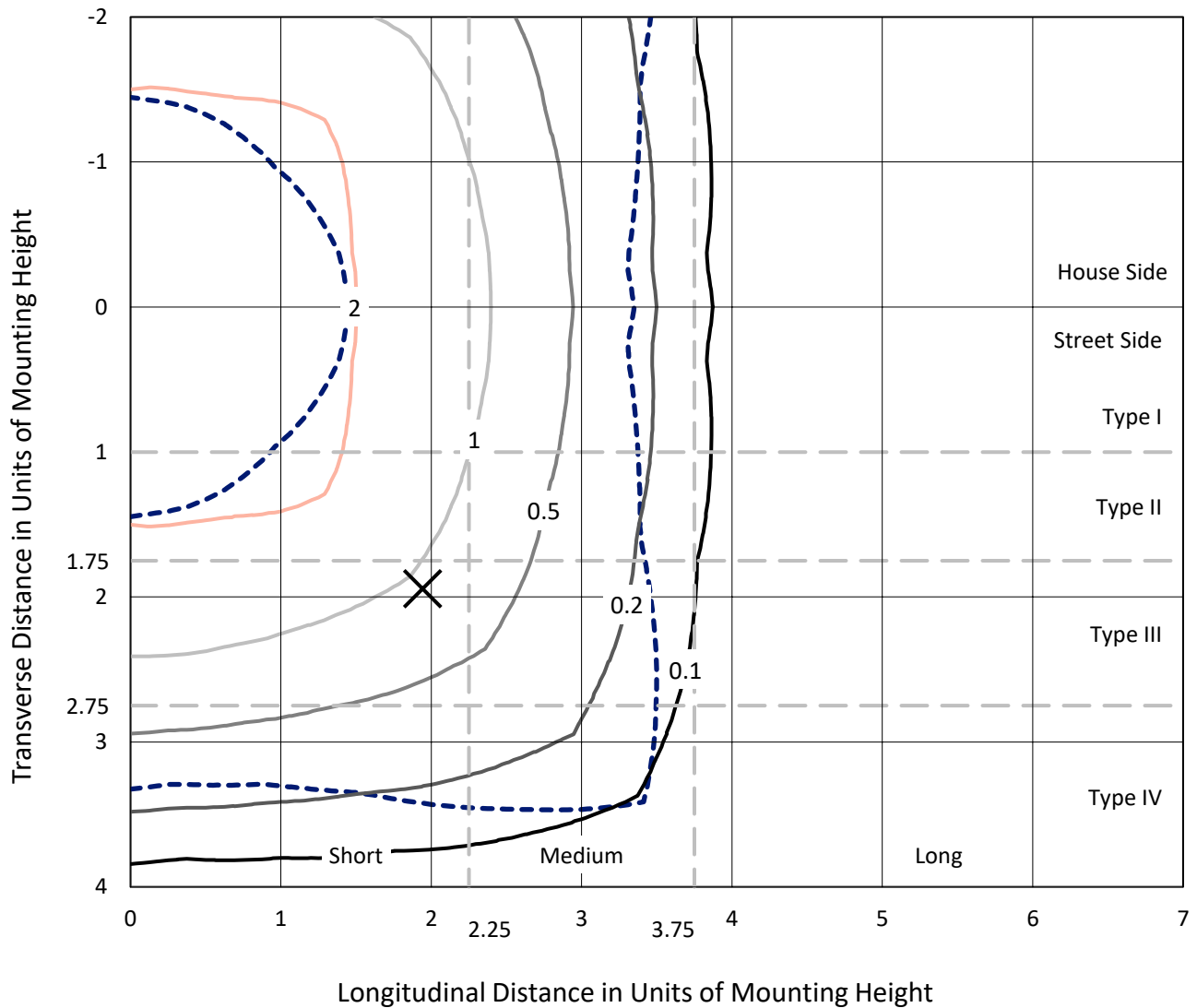
Input Watts (W): 293.6
Input Voltage (V): 120.0
Input Current (Ain): 2.469
Voltage Rise (V): NR
Power Factor: 0.999
Total Harmonic Distortion (THDi): 3.108
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

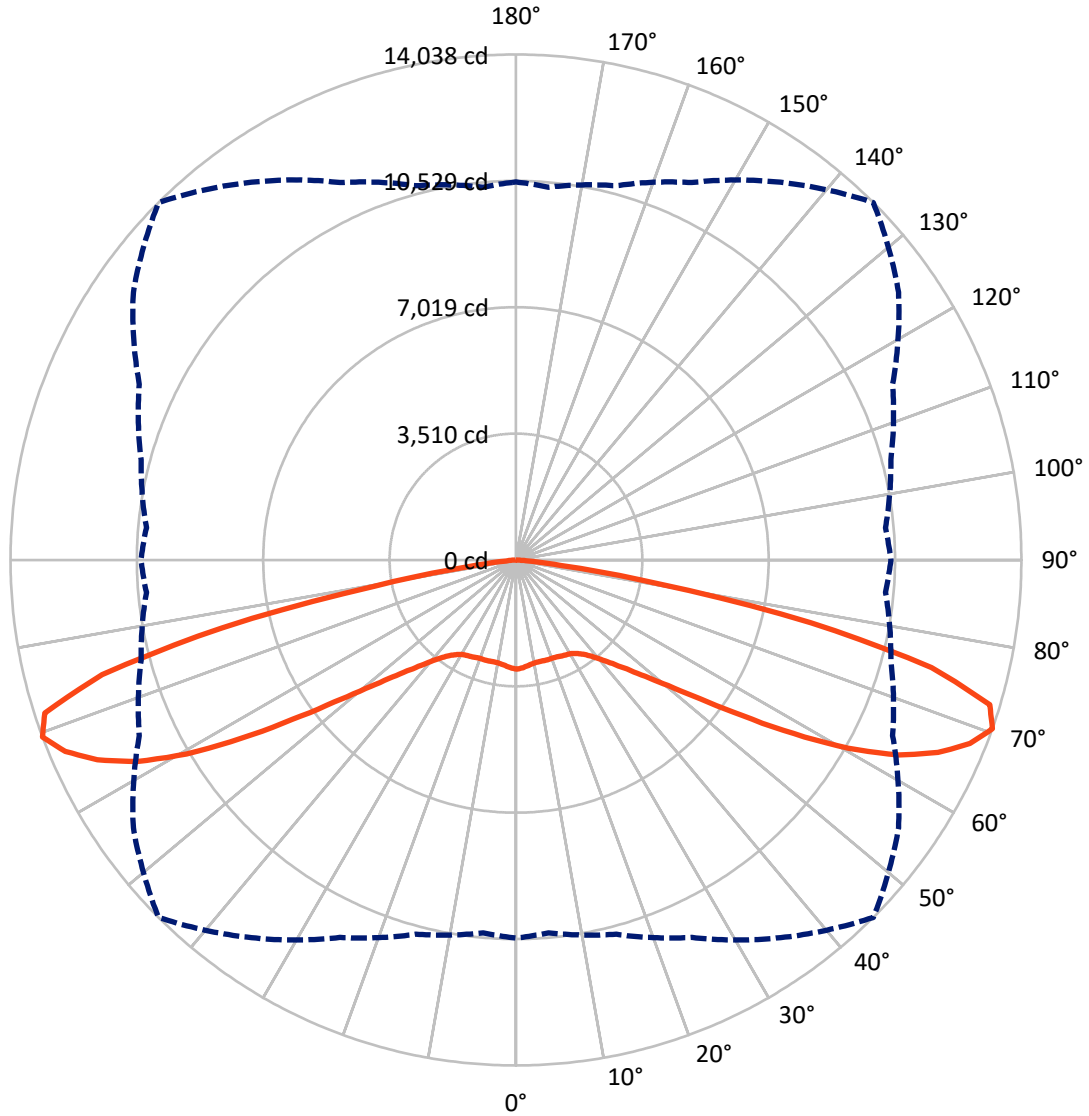
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	16620.5	0.0	16620.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16620.5	0.0	16620.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	33241.0	0.0	33241.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.1	0.8
10°-20°	828.2	2.5
20°-30°	1378.3	4.1
30°-40°	2084.4	6.3
40°-50°	3463.8	10.4
50°-60°	6536.0	19.7
60°-70°	11036.3	33.2
70°-80°	7252.0	21.8
80°-90°	379.9	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°	33241.0	100.0
0°-180°	33241.0	100.0

Coefficient of Utilization



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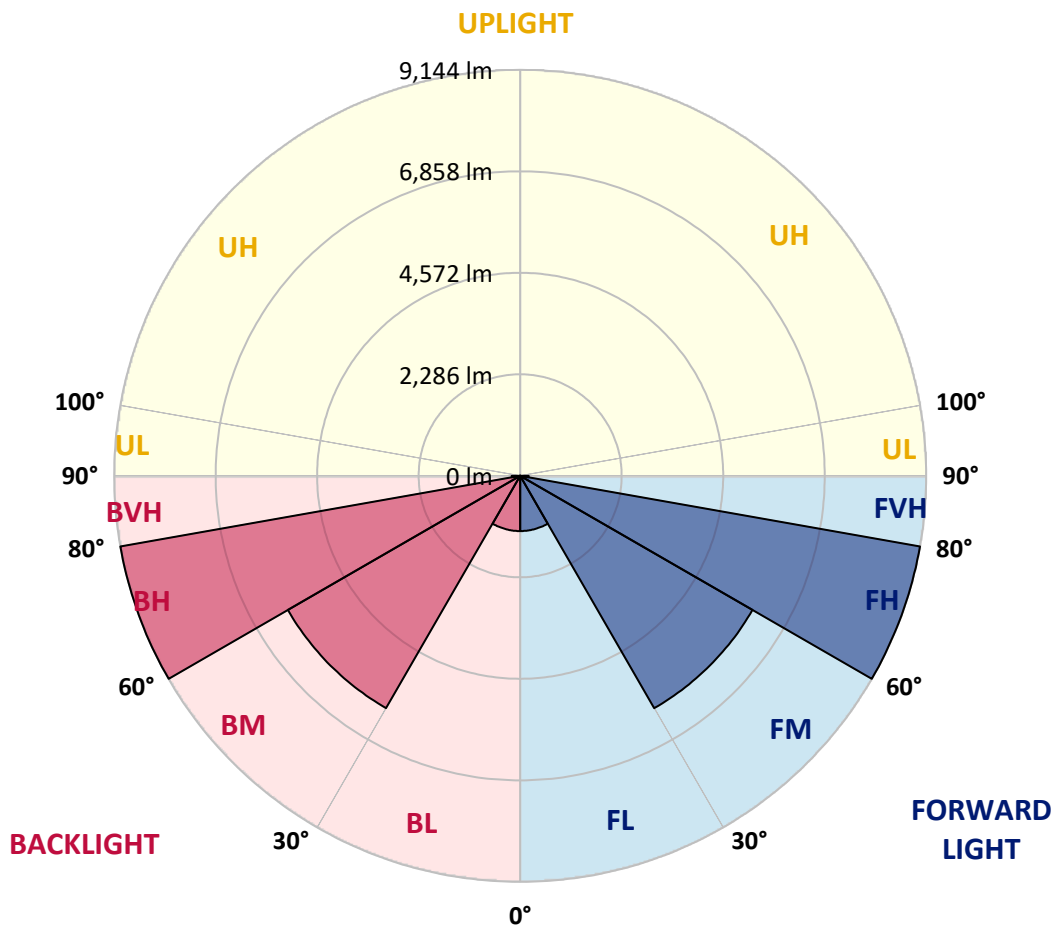
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1244.3	3.7			
FM (30°-60°)	6042.1	18.2			
FH (60°-80°)	9144.2	27.5			G4/12000
FVH (80°-90°)	190.0	0.6			G2/225
BL (0°-30°)	1244.3	3.7	B3/2500		
BM (30°-60°)	6042.1	18.2	B4/8500		
BH (60°-80°)	9144.2	27.5	B5		G4/12000
BVH (80°-90°)	190.0	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°	3032.2	3032.2	3032.2	3032.2	3032.2	3032.2	3032.2	3032.2	3032.2	3032.2	3032.2
2.5°	3013.2	3021.9	3018.4	3011.5	3011.5	3006.3	3011.5	3015.0	3020.2	3023.6	3021.9
5°	2973.5	2980.4	2978.7	2973.5	2975.2	2970.0	2973.5	2978.7	2982.1	2983.9	2983.9
7.5°	2938.9	2945.9	2942.4	2933.8	2933.8	2928.6	2930.3	2935.5	2940.7	2942.4	2942.4
10°	2930.3	2937.2	2926.9	2913.0	2907.8	2900.9	2902.7	2907.8	2918.2	2923.4	2923.4
12.5°	2933.8	2938.9	2928.6	2907.8	2902.7	2895.8	2895.8	2900.9	2914.8	2921.7	2923.4
15°	2944.1	2949.3	2933.8	2911.3	2906.1	2900.9	2899.2	2906.1	2921.7	2933.8	2935.5
17.5°	2963.1	2968.3	2944.1	2913.0	2906.1	2907.8	2906.1	2911.3	2935.5	2958.0	2958.0
20°	2980.4	2983.9	2951.0	2913.0	2906.1	2907.8	2906.1	2916.5	2947.6	2978.7	2980.4
22.5°	2985.6	2989.1	2958.0	2925.1	2919.9	2921.7	2919.9	2930.3	2959.7	2990.8	2990.8
25°	2987.3	2992.5	2968.3	2942.4	2951.0	2954.5	2951.0	2952.8	2975.2	3002.9	3001.1
27.5°	3013.2	3020.2	2997.7	2975.2	2980.4	2978.7	2983.9	2989.1	3006.3	3034.0	3027.1
30°	3066.8	3072.0	3053.0	3030.5	3027.1	3015.0	3030.5	3047.8	3066.8	3091.0	3085.8
32.5°	3154.9	3165.3	3141.1	3116.9	3101.4	3094.4	3106.5	3135.9	3161.8	3187.7	3177.4
35°	3301.8	3308.7	3286.2	3241.3	3213.7	3213.7	3224.0	3262.0	3303.5	3336.3	3324.2
37.5°	3509.1	3517.8	3478.0	3424.5	3383.0	3383.0	3396.8	3436.5	3498.7	3545.4	3528.1
40°	3761.4	3773.5	3723.4	3668.1	3628.3	3621.4	3638.7	3683.6	3742.4	3801.1	3782.1
42.5°	4065.5	4079.3	4013.6	3965.2	3934.1	3934.1	3942.8	3984.3	4037.8	4110.4	4105.2
45°	4454.2	4478.4	4388.6	4340.2	4310.8	4317.7	4322.9	4359.2	4407.6	4490.5	4487.0
47.5°	4917.3	4941.4	4846.4	4796.3	4791.1	4824.0	4803.2	4829.1	4855.1	4950.1	4922.4
50°	5442.5	5484.0	5418.3	5414.9	5425.2	5485.7	5437.3	5451.1	5421.8	5482.2	5446.0
52.5°	6085.2	6145.7	6133.6	6154.3	6270.1	6394.5	6283.9	6235.5	6125.0	6144.0	6080.0
55°	6864.5	6956.0	6973.3	7097.7	7360.3	7614.3	7379.3	7184.1	6949.1	6905.9	6838.5
57.5°	7750.8	7823.4	7906.3	8160.3	8651.0	9101.9	8651.0	8219.0	7849.3	7761.2	7699.0
60°	8704.5	8794.4	8873.9	9248.8	9977.9	10612.0	9964.1	9278.2	8789.2	8670.0	8566.3
62.5°	9729.1	9844.9	9900.2	10316.6	11166.6	11923.4	11178.7	10347.7	9805.1	9677.3	9573.6
65°	10712.2	10807.2	10869.4	11313.5	12125.5	12884.0	12180.8	11361.9	10803.8	10636.2	10553.3
67.5°	11170.1	11221.9	11374.0	11876.7	12733.7	13599.3	12878.8	11930.3	11306.6	11012.8	11016.3
70°	10499.7	10394.3	10760.6	11565.7	12806.3	14038.2	12972.1	11541.5	10777.9	10301.0	10415.0
72.5°	8113.6	7932.2	8568.0	9945.1	11976.9	13758.3	12059.9	10022.8	8963.7	7996.2	8236.3
75°	4414.5	4208.9	5086.6	6828.2	9551.2	11925.1	9770.6	7023.4	5663.7	4381.6	4666.7
77.5°	1245.7	1168.0	1876.4	3303.5	5744.9	8372.8	5966.0	3376.1	2225.4	1320.0	1466.9
80°	381.8	369.7	501.1	995.2	2439.6	4010.2	2344.6	1007.3	637.5	402.6	425.0
82.5°	226.3	207.3	248.8	362.8	622.0	1259.5	604.7	378.4	304.1	203.9	221.2
85°	129.6	120.9	146.9	176.2	209.1	267.8	174.5	179.7	162.4	108.8	114.0
87.5°	53.6	48.4	57.0	55.3	48.4	62.2	46.6	55.3	65.7	43.2	39.7
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)