

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: P970254

Luminaire Tested: **NAV-SB6B-722-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970254
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-722-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30279.5 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

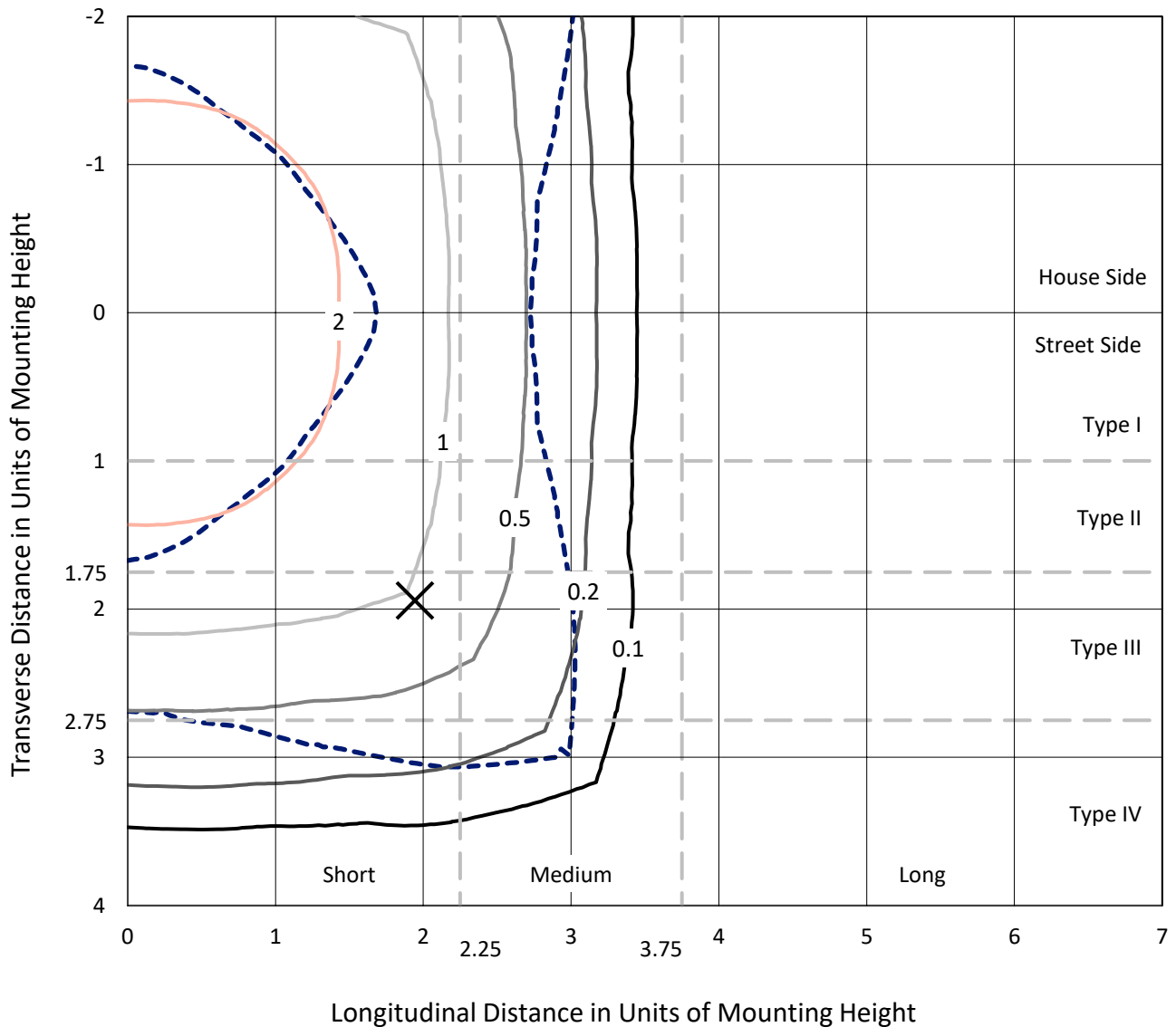
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

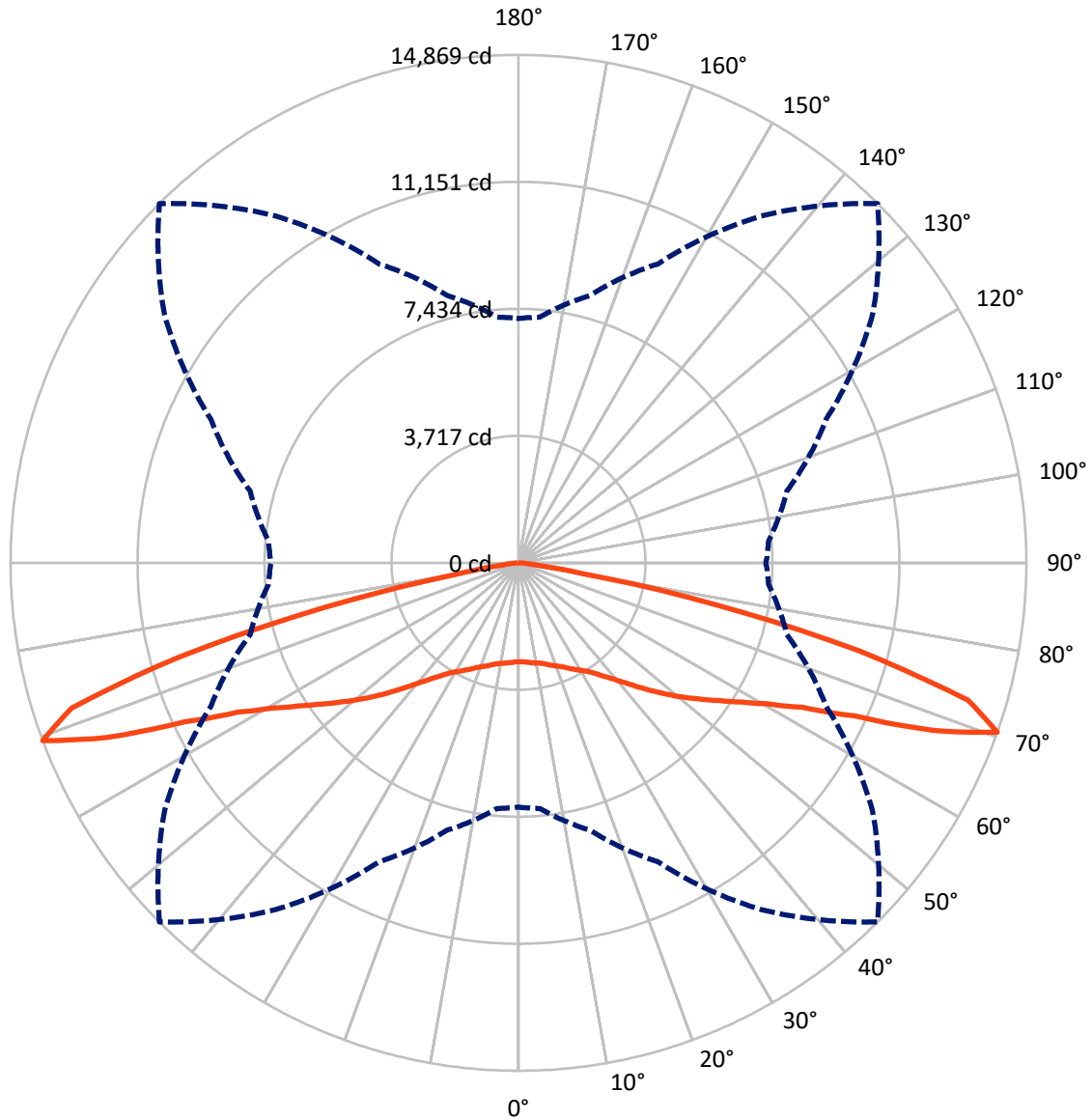
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	15139.8	0.0	15139.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15139.8	0.0	15139.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	30279.5	0.0	30279.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.8	0.9
10°-20°	873.8	2.9
20°-30°	1561.5	5.2
30°-40°	2531.2	8.4
40°-50°	4122.9	13.6
50°-60°	6286.1	20.8
60°-70°	9351.7	30.9
70°-80°	5097.0	16.8
80°-90°	173.6	0.6
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°	30279.5	100.0
0°-180°	30279.5	100.0

Coefficient of Utilization



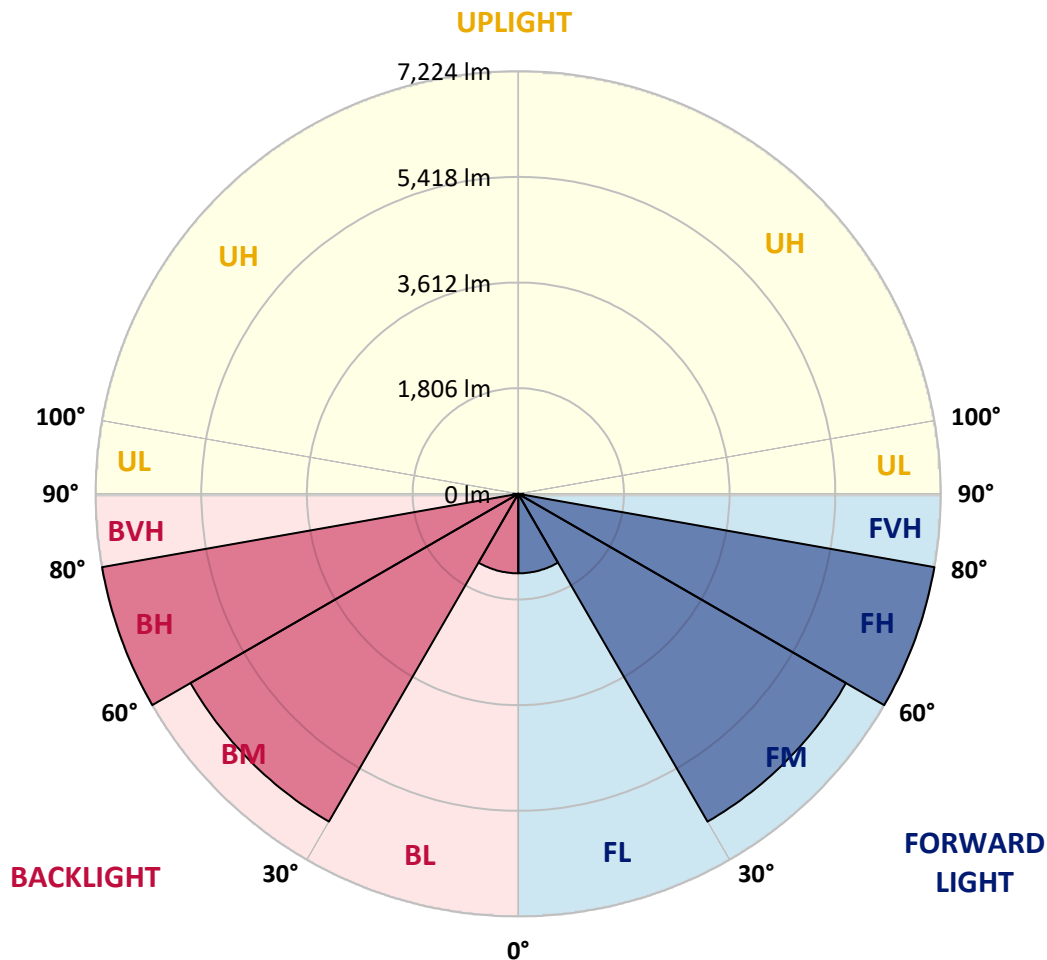
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1358.5	4.5			
FM (30°-60°)	6470.1	21.4			
FH (60°-80°)	7224.3	23.9			G3/7500
FVH (80°-90°)	86.8	0.3			G1/100
BL (0°-30°)	1358.5	4.5	B3/2500		
BM (30°-60°)	6470.1	21.4	B4/8500		
BH (60°-80°)	7224.3	23.9	B5		G3/7500
BVH (80°-90°)	86.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2900.4	2900.4	2900.4	2900.4	2900.4	2900.4	2900.4	2900.4	2900.4	2900.4	2900.4
2.5°	2914.2	2917.1	2911.1	2908.0	2905.1	2900.4	2902.0	2909.6	2915.7	2914.2	2915.7
5°	2938.5	2941.5	2936.9	2935.4	2929.3	2927.8	2927.8	2935.4	2940.0	2936.9	2938.5
7.5°	2965.8	2970.3	2962.8	2961.2	2958.3	2955.2	2953.6	2961.2	2965.8	2965.8	2965.8
10°	2991.7	2996.3	2990.1	2985.6	2982.5	2982.5	2979.5	2985.6	2993.2	2991.7	2991.7
12.5°	3019.0	3022.1	3016.0	3013.0	3013.0	3017.5	3013.0	3016.0	3022.1	3019.0	3017.5
15°	3052.4	3054.0	3052.4	3057.1	3064.6	3079.8	3066.2	3063.1	3066.2	3058.6	3058.6
17.5°	3098.1	3101.1	3107.2	3117.8	3128.5	3155.9	3131.6	3123.9	3123.9	3108.7	3108.7
20°	3154.3	3158.8	3168.0	3186.2	3199.9	3225.8	3201.5	3190.8	3186.2	3166.5	3166.5
22.5°	3213.6	3221.3	3234.9	3259.2	3283.6	3307.9	3283.6	3265.3	3251.6	3225.8	3224.2
25°	3282.0	3291.2	3312.4	3352.0	3385.4	3420.3	3391.5	3355.0	3327.7	3291.2	3289.6
27.5°	3379.3	3390.0	3415.8	3464.4	3507.0	3537.4	3510.0	3463.0	3424.9	3380.9	3379.3
30°	3516.2	3526.8	3557.2	3608.8	3637.7	3657.5	3639.3	3602.8	3557.2	3507.0	3507.0
32.5°	3692.5	3706.2	3739.6	3788.2	3794.3	3797.3	3791.3	3773.0	3739.6	3678.8	3680.3
35°	3915.9	3931.2	3969.1	4008.7	4002.6	4008.7	3999.6	3993.5	3969.1	3899.2	3899.2
37.5°	4189.6	4207.8	4247.3	4277.7	4262.6	4254.9	4256.4	4258.0	4244.3	4166.7	4166.7
40°	4507.2	4531.6	4560.4	4592.4	4566.6	4543.7	4559.0	4571.1	4559.0	4479.9	4479.9
42.5°	4834.1	4869.1	4899.5	4945.1	4923.8	4894.9	4916.2	4929.8	4904.0	4818.9	4825.0
45°	5197.5	5230.9	5270.3	5338.8	5323.6	5293.2	5323.6	5326.6	5282.5	5182.2	5192.9
47.5°	5572.9	5607.9	5667.1	5758.3	5752.3	5718.9	5758.3	5737.1	5680.9	5560.7	5553.1
50°	5928.6	5977.3	6068.5	6196.1	6208.3	6167.3	6220.5	6179.4	6085.2	5934.7	5931.7
52.5°	6263.1	6314.7	6459.1	6632.5	6676.5	6623.3	6694.8	6623.3	6482.0	6288.9	6270.6
55°	6614.2	6672.0	6843.7	7070.2	7158.4	7118.9	7185.8	7077.8	6877.2	6643.1	6611.1
57.5°	7027.7	7062.7	7267.9	7536.9	7686.0	7695.1	7725.4	7543.1	7299.8	7033.8	6997.3
60°	7476.1	7524.8	7748.3	8070.5	8306.2	8382.1	8350.3	8079.7	7796.9	7491.3	7442.7
62.5°	8050.8	8104.0	8371.5	8757.6	9130.1	9318.6	9193.9	8801.7	8452.0	8085.7	8021.9
65°	8526.6	8585.9	9069.3	9757.9	10435.9	10814.5	10501.2	9779.2	9149.9	8633.0	8547.9
67.5°	8181.6	8254.4	9013.0	10277.8	11963.7	13093.1	12021.4	10432.9	9200.0	8499.2	8394.3
70°	7150.8	7219.3	8104.0	9650.0	12393.9	14868.6	12652.3	9934.2	8132.9	7348.4	7243.6
72.5°	4747.5	4967.9	5863.3	7717.8	11066.7	13759.0	11176.2	7561.3	5439.2	4736.8	4583.3
75°	1574.9	1751.2	2362.3	4001.1	7412.3	10290.0	7056.6	3540.5	1871.3	1346.8	1273.9
77.5°	396.8	457.6	630.9	1144.7	2956.7	5858.7	2661.8	934.9	509.2	355.7	317.8
80°	193.1	212.8	304.0	381.6	740.4	1862.2	694.7	358.7	240.2	185.4	170.3
82.5°	106.4	107.9	171.8	215.9	275.1	481.9	285.8	209.8	138.4	112.4	112.4
85°	65.4	63.9	91.2	115.5	115.5	171.8	136.8	115.5	79.0	69.9	73.0
87.5°	25.8	25.8	33.4	36.5	31.9	44.1	35.0	38.0	30.4	28.9	30.4
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)