

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: P965015

Luminaire Tested: **NAV-SB3D-727-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965015
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-SB3D-727-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30399.5 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

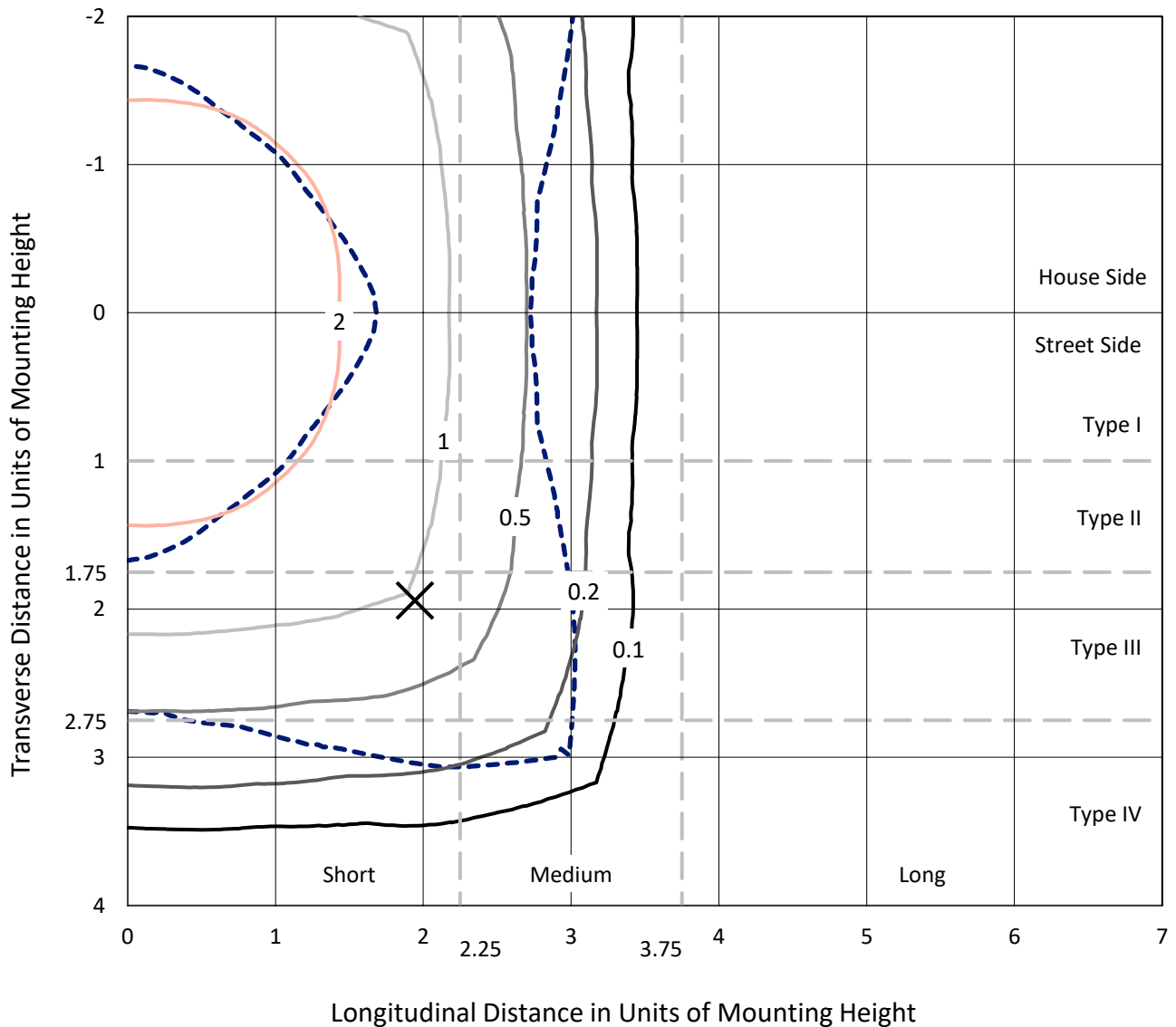
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

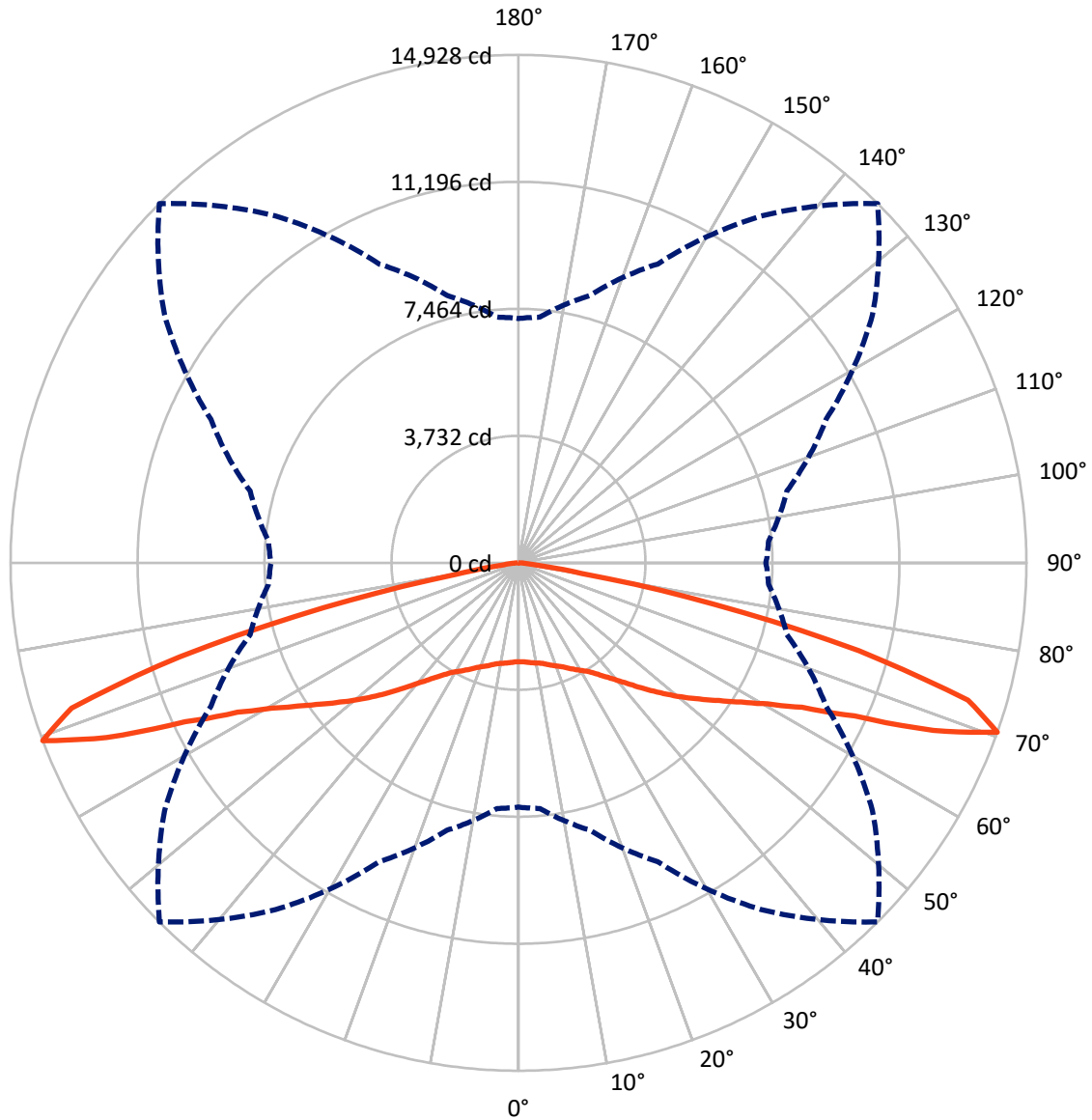
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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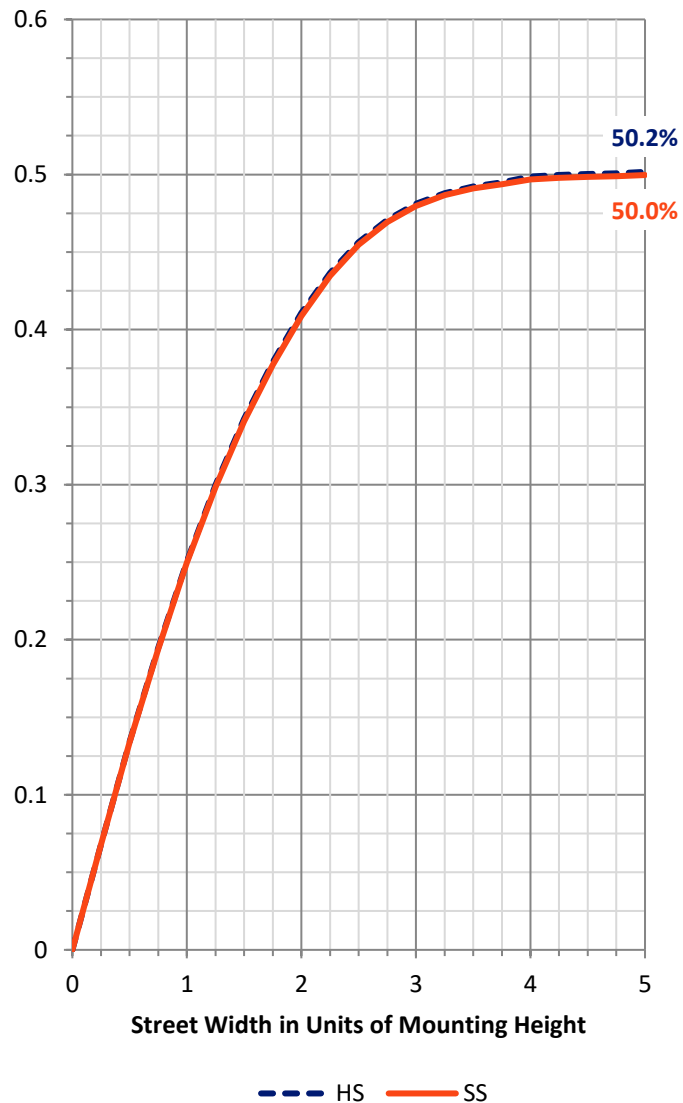
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15199.7	0.0	15199.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15199.7	0.0	15199.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	30399.5	0.0	30399.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.9	0.9
10°-20°	877.2	2.9
20°-30°	1567.7	5.2
30°-40°	2541.2	8.4
40°-50°	4139.3	13.6
50°-60°	6311.0	20.8
60°-70°	9388.7	30.9
70°-80°	5117.2	16.8
80°-90°	174.3	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°	30399.5	100.0
0°-180°	30399.5	100.0

Coefficient of Utilization



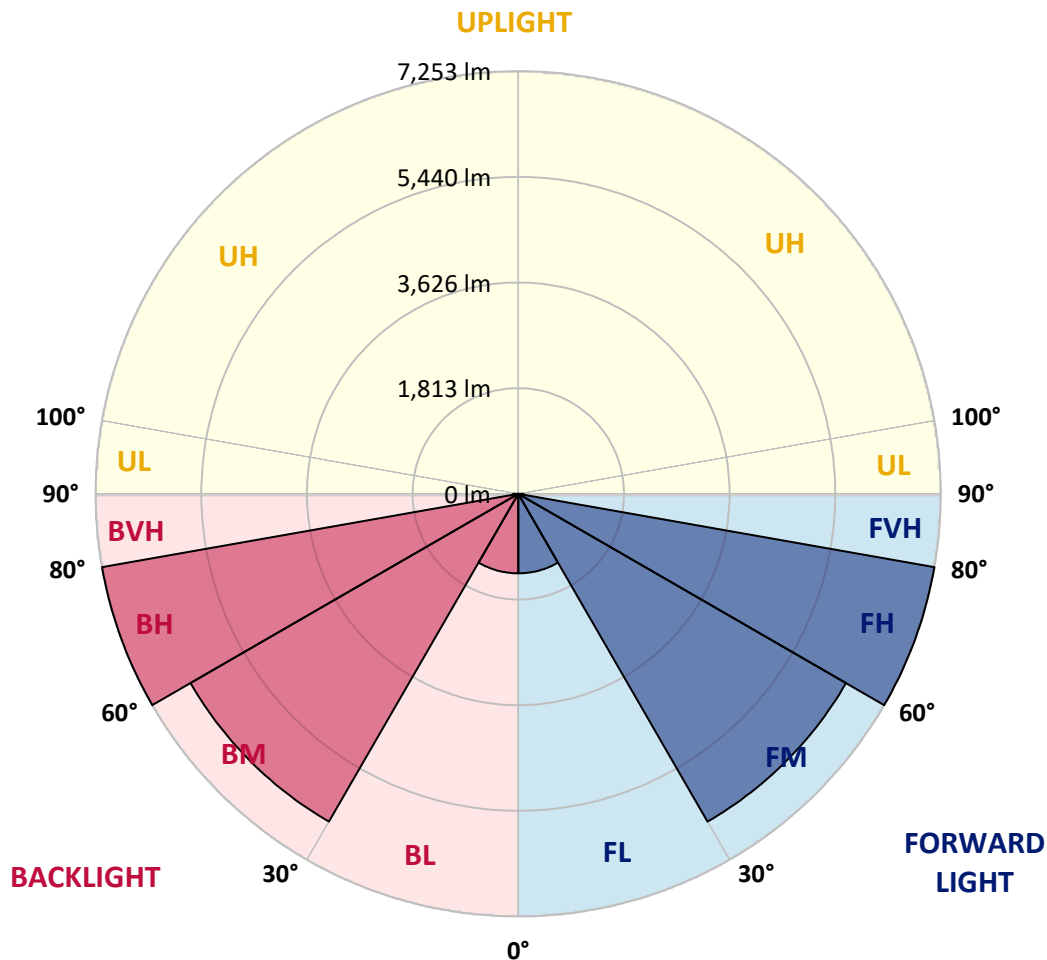
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1363.9	4.5			
FM (30°-60°)	6495.7	21.4			
FH (60°-80°)	7252.9	23.9			G3/7500
FVH (80°-90°)	87.1	0.3			G1/100
BL (0°-30°)	1363.9	4.5	B3/2500		
BM (30°-60°)	6495.7	21.4	B4/8500		
BH (60°-80°)	7252.9	23.9	B5		G3/7500
BVH (80°-90°)	87.1	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°	2911.9	2911.9	2911.9	2911.9	2911.9	2911.9	2911.9	2911.9	2911.9	2911.9	2911.9
2.5°	2925.7	2928.7	2922.7	2919.6	2916.5	2911.9	2913.5	2921.1	2927.2	2925.7	2927.2
5°	2950.2	2953.1	2948.6	2947.1	2940.9	2939.4	2939.4	2947.1	2951.6	2948.6	2950.2
7.5°	2977.6	2982.1	2974.5	2973.0	2969.9	2966.9	2965.3	2973.0	2977.6	2977.6	2977.6
10°	3003.6	3008.1	3002.0	2997.4	2994.3	2994.3	2991.4	2997.4	3005.1	3003.6	3003.6
12.5°	3031.0	3034.0	3028.0	3024.9	3024.9	3029.5	3024.9	3028.0	3034.0	3031.0	3029.5
15°	3064.5	3066.1	3064.5	3069.2	3076.7	3092.0	3078.3	3075.2	3078.3	3070.7	3070.7
17.5°	3110.4	3113.4	3119.5	3130.2	3140.9	3168.4	3144.0	3136.3	3136.3	3121.0	3121.0
20°	3166.8	3171.5	3180.6	3198.9	3212.7	3238.6	3214.1	3203.4	3198.9	3179.0	3179.0
22.5°	3226.4	3234.0	3247.7	3272.1	3296.5	3321.0	3296.5	3278.3	3264.5	3238.6	3237.1
25°	3295.1	3304.2	3325.5	3365.2	3398.8	3434.0	3404.9	3368.3	3340.8	3304.2	3302.7
27.5°	3392.7	3403.4	3429.3	3478.1	3520.9	3551.4	3524.0	3476.6	3438.5	3394.2	3392.7
30°	3530.1	3540.8	3571.3	3623.2	3652.2	3672.0	3653.7	3617.0	3571.3	3520.9	3520.9
32.5°	3707.1	3720.9	3754.4	3803.3	3809.3	3812.4	3806.3	3788.0	3754.4	3693.4	3694.9
35°	3931.5	3946.7	3984.9	4024.6	4018.4	4024.6	4015.3	4009.3	3984.9	3914.7	3914.7
37.5°	4206.2	4224.4	4264.1	4294.6	4279.4	4271.8	4273.3	4274.9	4261.1	4183.2	4183.2
40°	4525.2	4549.6	4578.6	4610.6	4584.6	4561.8	4577.0	4589.2	4577.0	4497.7	4497.7
42.5°	4853.3	4888.3	4918.9	4964.7	4943.3	4914.3	4935.7	4949.4	4923.5	4838.0	4844.0
45°	5218.0	5251.6	5291.3	5359.9	5344.7	5314.1	5344.7	5347.7	5303.5	5202.8	5213.5
47.5°	5595.0	5630.1	5689.6	5781.2	5775.1	5741.5	5781.2	5759.8	5703.3	5582.8	5575.2
50°	5952.1	6001.0	6092.5	6220.7	6232.9	6191.7	6245.1	6203.9	6109.3	5958.2	5955.1
52.5°	6287.9	6339.7	6484.8	6658.7	6703.0	6649.6	6721.3	6649.6	6507.6	6313.8	6295.4
55°	6640.5	6698.4	6870.9	7098.2	7186.8	7147.1	7214.3	7105.9	6904.4	6669.4	6637.4
57.5°	7055.5	7090.6	7296.7	7566.8	7716.4	7725.5	7756.1	7572.9	7328.7	7061.6	7025.0
60°	7505.8	7554.6	7778.9	8102.5	8339.1	8415.4	8383.3	8111.6	7827.8	7521.0	7472.1
62.5°	8082.6	8136.0	8404.7	8792.3	9166.3	9355.5	9230.3	8836.6	8485.6	8117.8	8053.6
65°	8560.4	8619.8	9105.2	9796.5	10477.2	10857.2	10542.8	9818.0	9186.0	8667.2	8581.7
67.5°	8213.9	8287.1	9048.7	10318.5	12011.1	13145.0	12069.1	10474.2	9236.5	8532.9	8427.6
70°	7179.2	7247.9	8136.0	9688.2	12443.0	14927.6	12702.4	9973.6	8165.0	7377.5	7272.3
72.5°	4766.2	4987.5	5886.5	7748.4	11110.6	13813.4	11220.5	7591.3	5460.7	4755.6	4601.4
75°	1581.2	1758.2	2371.6	4016.9	7441.7	10330.7	7084.5	3554.5	1878.7	1352.2	1278.9
77.5°	398.3	459.4	633.3	1149.2	2968.4	5881.9	2672.4	938.6	511.3	357.1	319.0
80°	193.8	213.7	305.2	383.0	743.2	1869.6	697.5	360.2	241.2	186.2	171.0
82.5°	106.8	108.3	172.5	216.7	276.2	483.8	286.9	210.6	138.9	113.0	113.0
85°	65.6	64.1	91.5	116.0	116.0	172.5	137.4	116.0	79.3	70.2	73.3
87.5°	25.9	25.9	33.6	36.6	32.1	44.3	35.1	38.1	30.5	29.0	30.5
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)