

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: P965232

Luminaire Tested: **NAV-SB3D-830-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965232
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-830-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29449.3 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

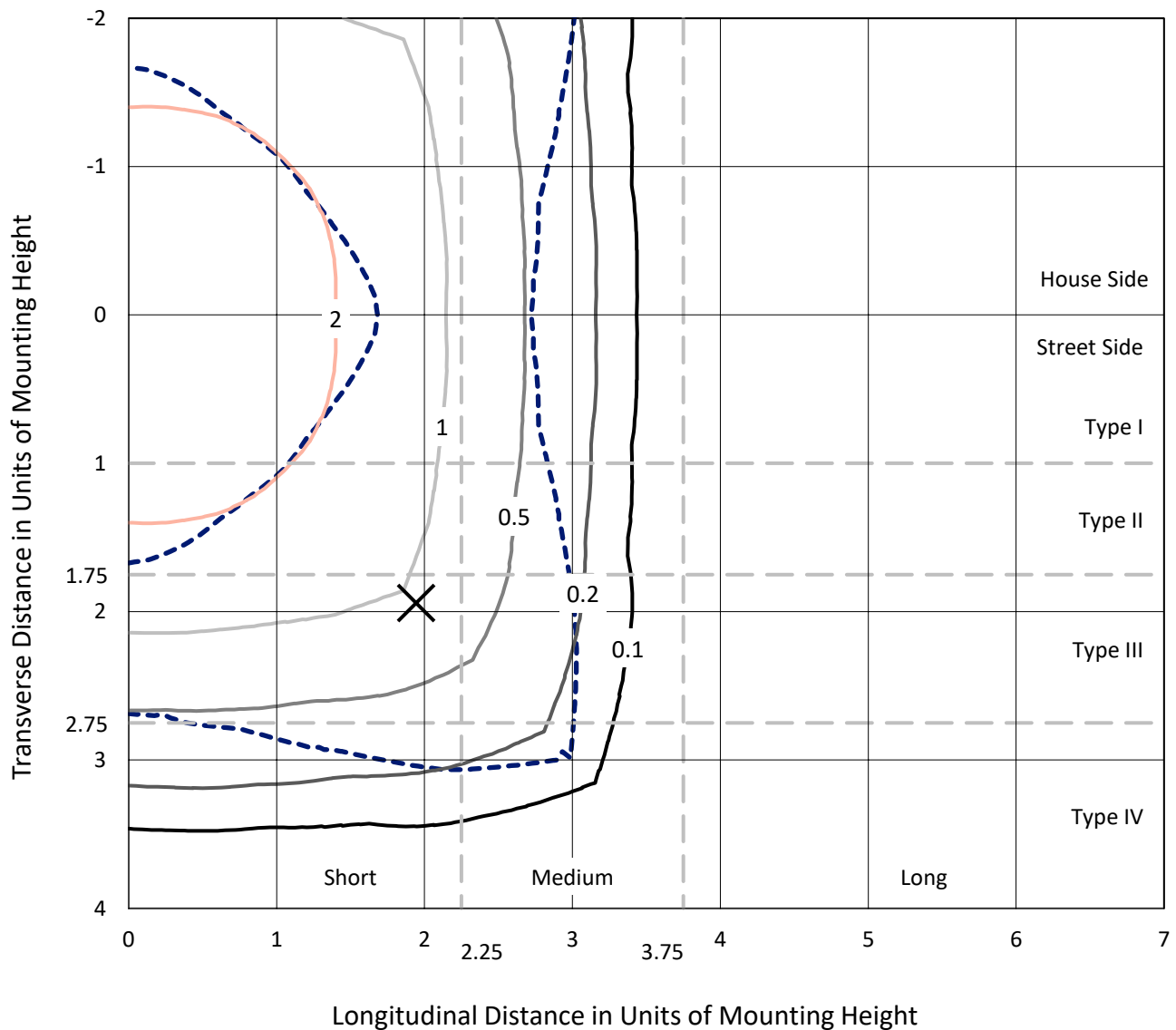
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

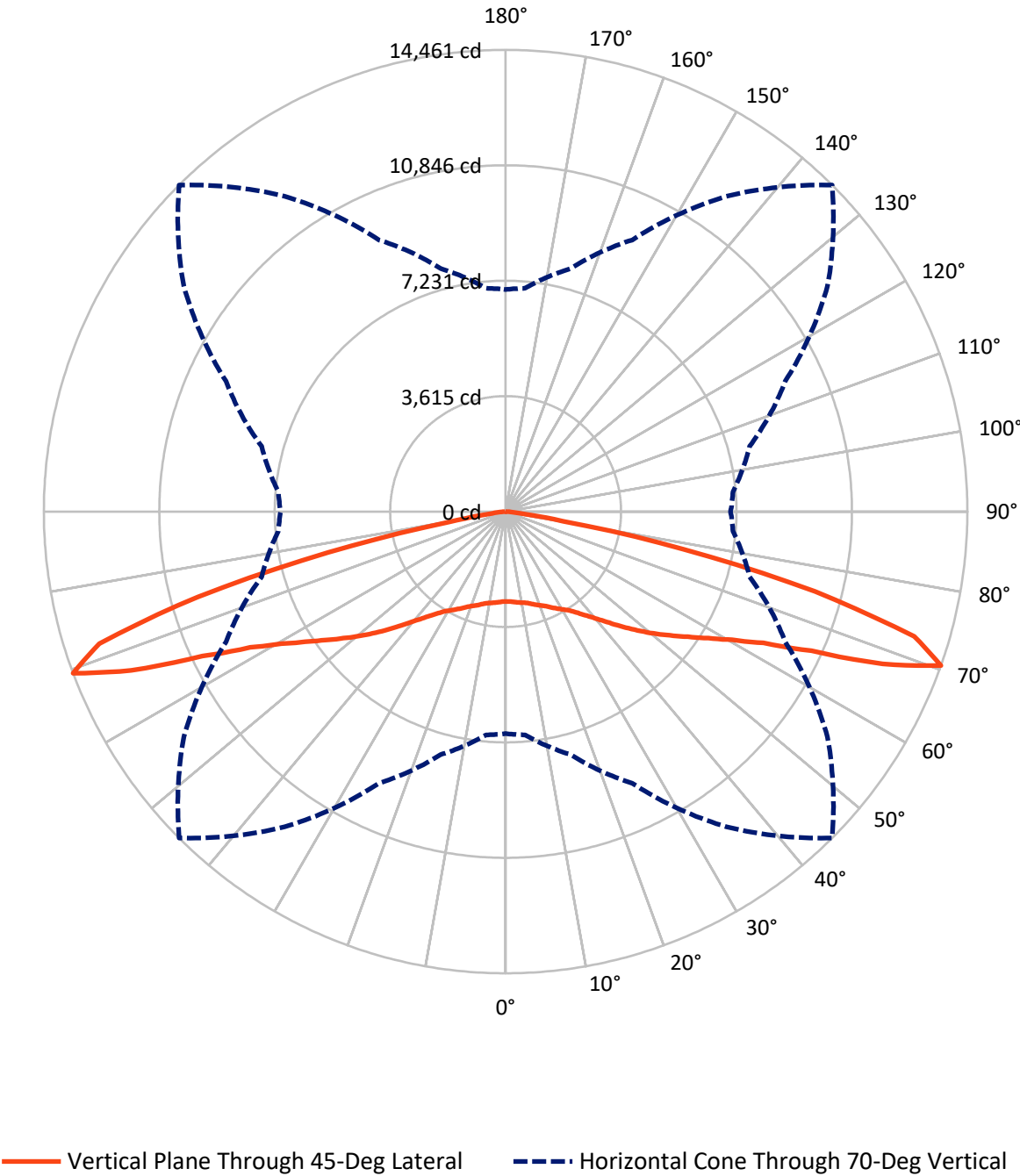
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14724.6	0.0	14724.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14724.6	0.0	14724.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	29449.3	0.0	29449.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.1	0.9
10°-20°	849.8	2.9
20°-30°	1518.7	5.2
30°-40°	2461.8	8.4
40°-50°	4009.9	13.6
50°-60°	6113.7	20.8
60°-70°	9095.3	30.9
70°-80°	4957.2	16.8
80°-90°	168.8	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°	29449.3	100.0
0°-180°	29449.3	100.0

Coefficient of Utilization



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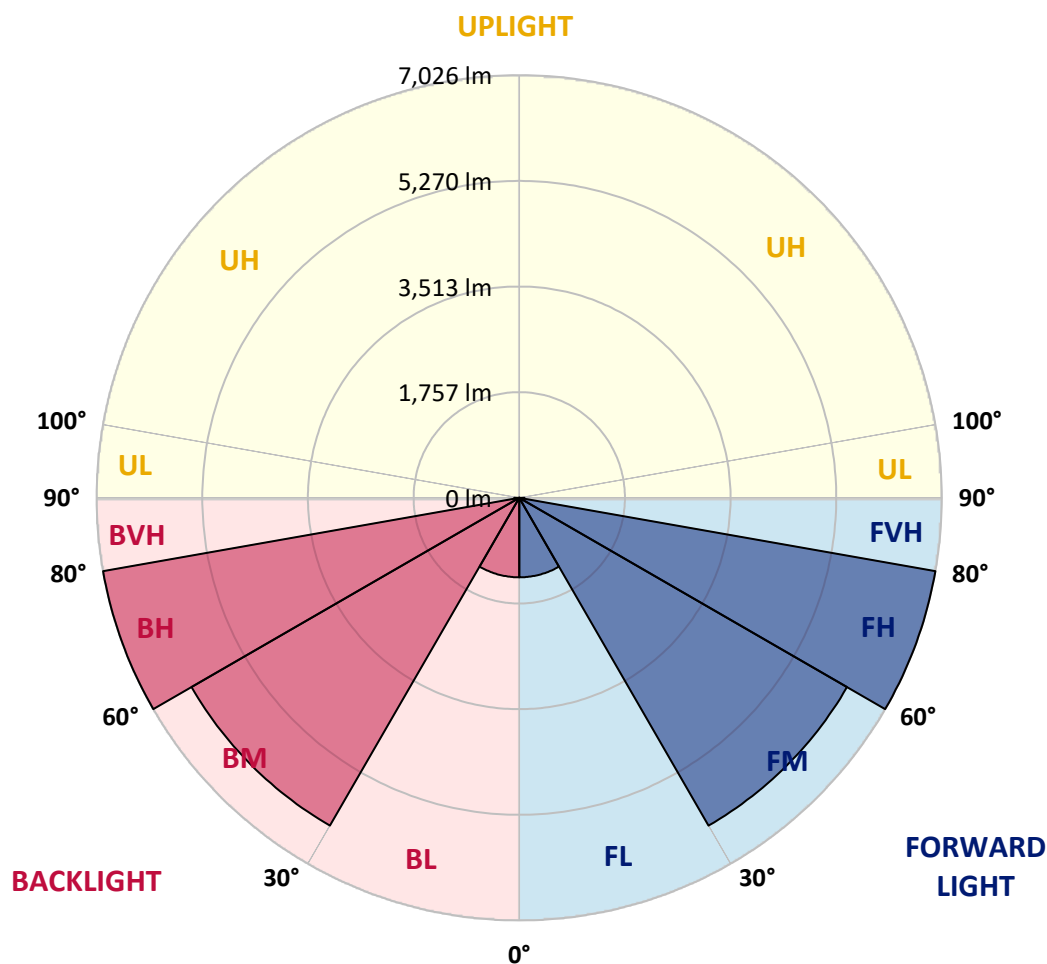
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1321.3	4.5			
FM	(30°-60°)	6292.7	21.4			
FH	(60°-80°)	7026.2	23.9			G3/7500
FVH	(80°-90°)	84.4	0.3			G1/100
BL	(0°-30°)	1321.3	4.5	B3/2500		
BM	(30°-60°)	6292.7	21.4	B4/8500		
BH	(60°-80°)	7026.2	23.9	B5		G3/7500
BVH	(80°-90°)	84.4	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°	2820.9	2820.9	2820.9	2820.9	2820.9	2820.9	2820.9	2820.9	2820.9	2820.9	2820.9
2.5°	2834.2	2837.2	2831.3	2828.3	2825.4	2820.9	2822.4	2829.8	2835.8	2834.2	2835.8
5°	2857.9	2860.9	2856.5	2854.9	2849.0	2847.6	2847.6	2854.9	2859.3	2856.5	2857.9
7.5°	2884.6	2889.0	2881.6	2880.0	2877.1	2874.2	2872.7	2880.0	2884.6	2884.6	2884.6
10°	2909.7	2914.1	2908.1	2903.7	2900.7	2900.7	2897.8	2903.7	2911.1	2909.7	2909.7
12.5°	2936.2	2939.2	2933.3	2930.4	2930.4	2934.8	2930.4	2933.3	2939.2	2936.2	2934.8
15°	2968.8	2970.2	2968.8	2973.2	2980.6	2995.4	2982.1	2979.2	2982.1	2974.7	2974.7
17.5°	3013.1	3016.1	3022.0	3032.4	3042.7	3069.4	3045.7	3038.3	3038.3	3023.4	3023.4
20°	3067.8	3072.2	3081.1	3098.9	3112.2	3137.3	3113.6	3103.3	3098.9	3079.7	3079.7
22.5°	3125.5	3132.9	3146.2	3169.8	3193.5	3217.2	3193.5	3175.8	3162.4	3137.3	3135.9
25°	3192.1	3200.9	3221.6	3260.0	3292.6	3326.5	3298.4	3263.0	3236.4	3200.9	3199.4
27.5°	3286.7	3297.0	3322.1	3369.5	3410.9	3440.4	3413.8	3367.9	3331.0	3288.1	3286.7
30°	3419.7	3430.1	3459.7	3509.9	3538.0	3557.3	3539.4	3504.0	3459.7	3410.9	3410.9
32.5°	3591.2	3604.5	3637.0	3684.4	3690.3	3693.3	3687.3	3669.6	3637.0	3578.0	3579.4
35°	3808.6	3823.4	3860.4	3898.8	3892.8	3898.8	3889.9	3883.9	3860.4	3792.3	3792.3
37.5°	4074.7	4092.4	4130.9	4160.5	4145.6	4138.2	4139.8	4141.2	4127.9	4052.5	4052.5
40°	4383.7	4407.3	4435.5	4466.4	4441.3	4419.2	4433.9	4445.7	4433.9	4357.1	4357.1
42.5°	4701.6	4735.6	4765.1	4809.5	4788.8	4760.7	4781.4	4794.7	4769.5	4686.8	4692.7
45°	5054.9	5087.5	5125.9	5192.4	5177.6	5148.1	5177.6	5180.6	5137.7	5040.1	5050.5
47.5°	5420.1	5454.1	5511.7	5600.5	5594.6	5562.1	5600.5	5579.8	5525.1	5408.3	5400.9
50°	5766.0	5813.4	5902.1	6026.3	6038.1	5998.2	6050.0	6010.0	5918.3	5772.0	5769.0
52.5°	6091.4	6141.6	6282.0	6450.6	6493.5	6441.7	6511.2	6441.7	6304.3	6116.5	6098.7
55°	6432.9	6489.1	6656.1	6876.4	6962.1	6923.7	6988.8	6883.8	6688.6	6461.0	6429.9
57.5°	6835.0	6869.0	7068.6	7330.3	7475.2	7484.0	7513.7	7336.2	7099.7	6841.0	6805.4
60°	7271.1	7318.5	7535.8	7849.2	8078.4	8152.3	8121.3	7858.1	7583.2	7285.9	7238.7
62.5°	7830.0	7881.7	8142.0	8517.5	8879.8	9063.0	8941.8	8560.4	8220.3	7864.0	7801.9
65°	8292.8	8350.5	8820.6	9490.4	10149.8	10517.9	10213.3	9511.1	8898.9	8396.3	8313.5
67.5°	7957.2	8028.1	8765.9	9996.0	11635.6	12734.1	11691.8	10146.8	8947.7	8266.2	8164.1
70°	6954.7	7021.2	7881.7	9385.4	12054.0	14461.0	12305.3	9661.9	7909.8	7146.9	7044.9
72.5°	4617.3	4831.6	5702.5	7506.3	10763.3	13381.7	10869.8	7354.0	5290.0	4607.0	4457.6
75°	1531.7	1703.2	2297.5	3891.3	7209.0	10007.8	6863.1	3443.4	1820.0	1309.9	1238.9
77.5°	385.9	445.1	613.6	1113.3	2875.6	5698.1	2588.8	909.3	495.3	345.9	309.0
80°	187.8	206.9	295.7	371.0	720.1	1811.2	675.7	348.9	233.6	180.4	165.6
82.5°	103.5	105.0	167.1	209.9	267.6	468.6	278.0	204.1	134.6	109.4	109.4
85°	63.6	62.1	88.7	112.3	112.3	167.1	133.0	112.3	76.9	68.1	70.9
87.5°	25.1	25.1	32.5	35.5	31.1	42.8	34.0	37.0	29.5	28.1	29.5
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)