

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: P968270

Luminaire Tested: **NAV-SB5B-740-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968270
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-SB5B-740-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32303.9 lumens
Efficiency: N/A
Efficacy: 176.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

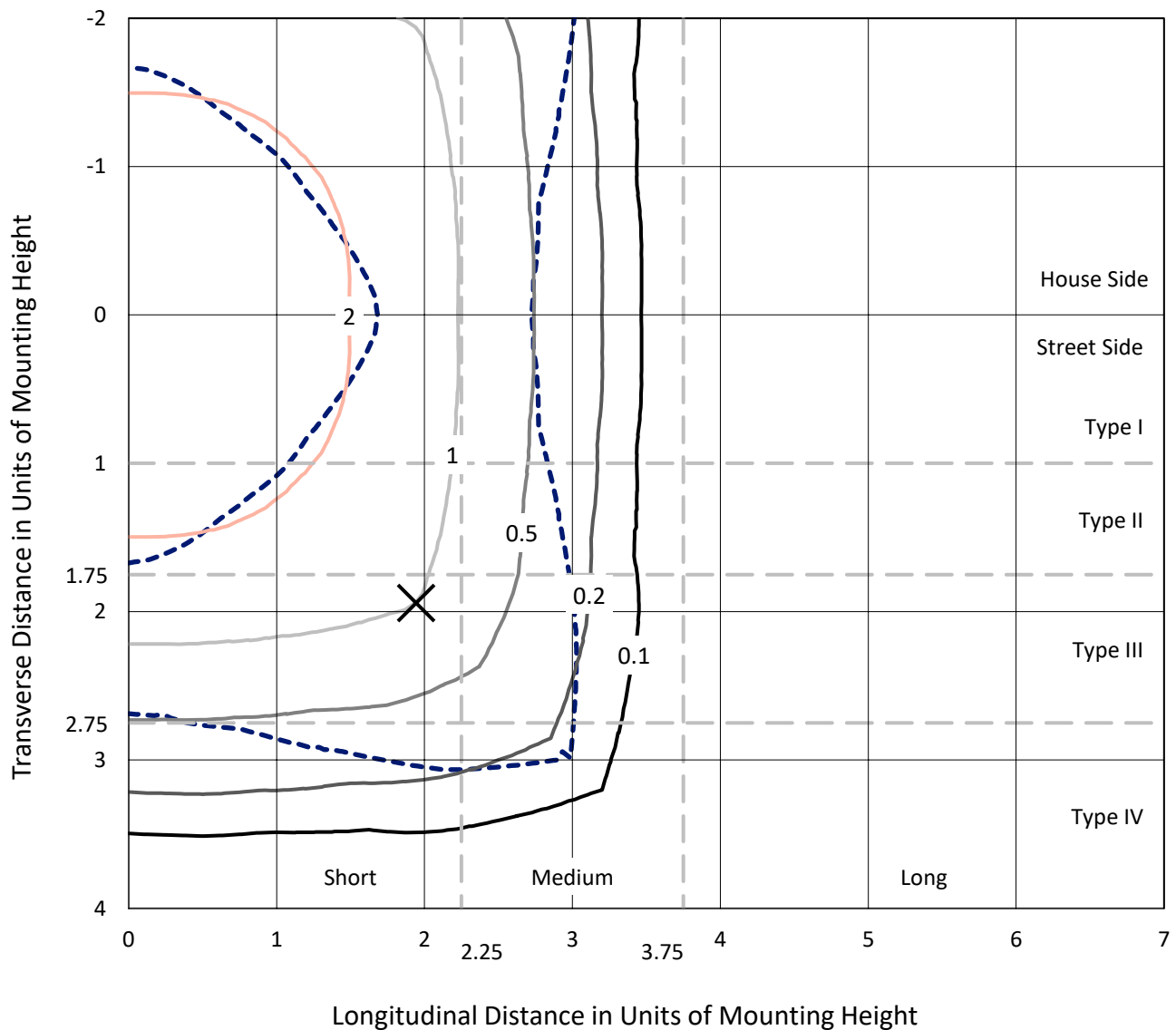
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

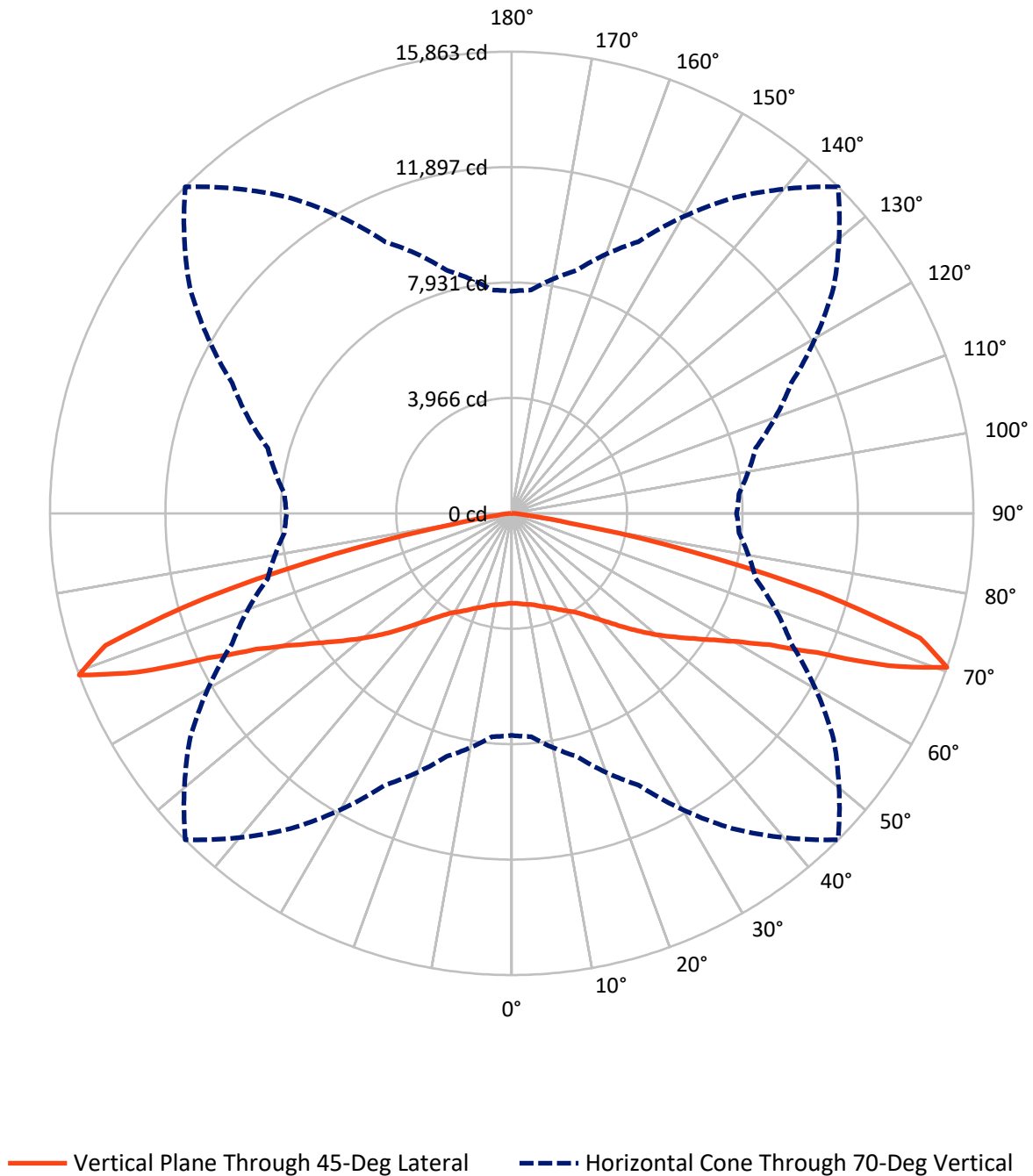
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	16151.9	0.0	16151.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16151.9	0.0	16151.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	32303.9	0.0	32303.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.6	0.9
10°-20°	932.2	2.9
20°-30°	1665.9	5.2
30°-40°	2700.4	8.4
40°-50°	4398.6	13.6
50°-60°	6706.3	20.8
60°-70°	9976.9	30.9
70°-80°	5437.7	16.8
80°-90°	185.2	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°	32303.9	100.0
0°-180°	32303.9	100.0

Coefficient of Utilization



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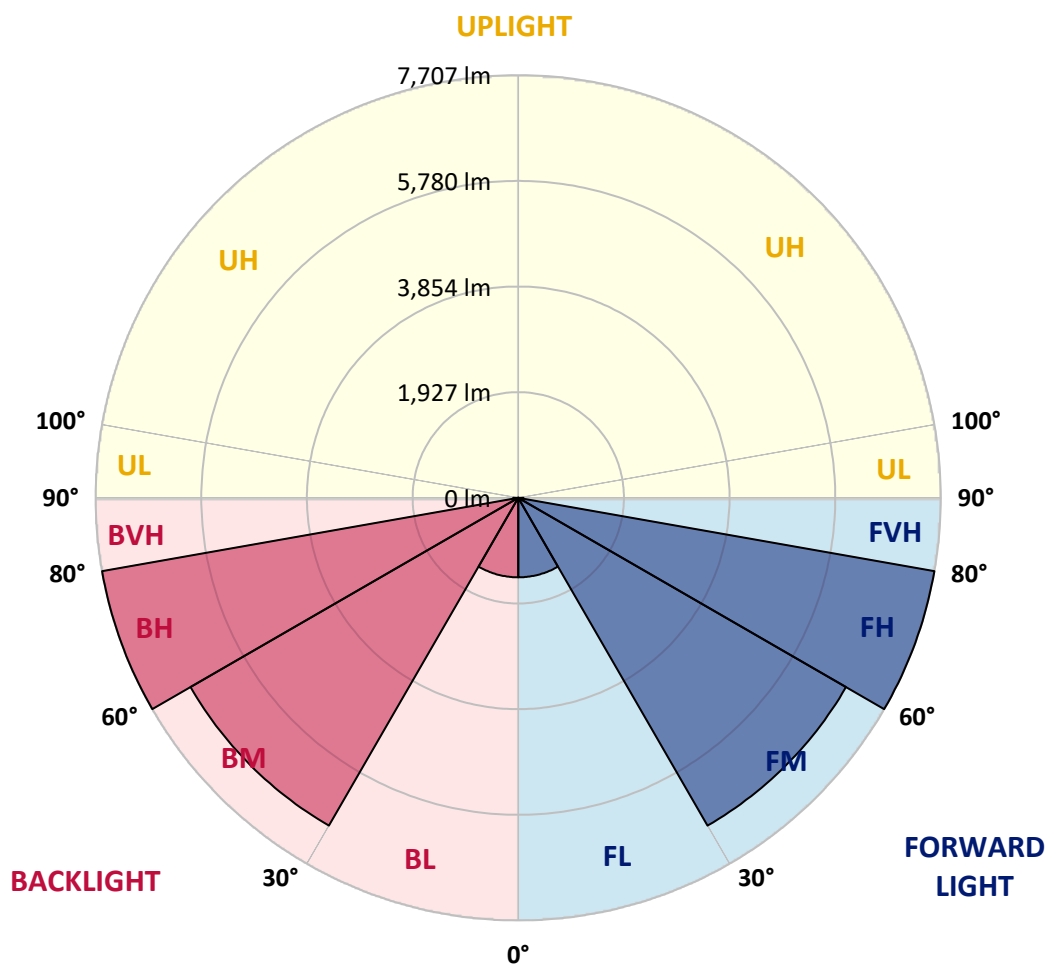
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1449.4	4.5			
FM	(30°-60°)	6902.7	21.4			
FH	(60°-80°)	7707.3	23.9			G4/12000
FVH	(80°-90°)	92.6	0.3			G1/100
BL	(0°-30°)	1449.4	4.5	B3/2500		
BM	(30°-60°)	6902.7	21.4	B4/8500		
BH	(60°-80°)	7707.3	23.9	B5		G4/12000
BVH	(80°-90°)	92.6	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-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3094.4	3094.4	3094.4	3094.4	3094.4	3094.4	3094.4	3094.4	3094.4	3094.4	3094.4
2.5°	3108.9	3112.2	3105.7	3102.5	3099.3	3094.4	3096.0	3104.1	3110.6	3108.9	3110.6
5°	3135.0	3138.1	3133.3	3131.7	3125.2	3123.6	3123.6	3131.7	3136.5	3133.3	3135.0
7.5°	3164.1	3169.0	3160.9	3159.3	3156.0	3152.8	3151.2	3159.3	3164.1	3164.1	3164.1
10°	3191.6	3196.6	3190.1	3185.2	3181.9	3181.9	3178.7	3185.2	3193.3	3191.6	3191.6
12.5°	3220.9	3224.1	3217.7	3214.4	3214.4	3219.2	3214.4	3217.7	3224.1	3220.9	3219.2
15°	3256.5	3258.2	3256.5	3261.4	3269.5	3285.7	3271.2	3267.9	3271.2	3263.1	3263.1
17.5°	3305.2	3308.5	3315.0	3326.3	3337.6	3366.8	3340.9	3332.8	3332.8	3316.6	3316.6
20°	3365.2	3370.1	3379.8	3399.3	3413.9	3441.4	3415.5	3404.1	3399.3	3378.2	3378.2
22.5°	3428.4	3436.6	3451.2	3477.1	3503.0	3529.0	3503.0	3483.6	3469.0	3441.4	3439.8
25°	3501.4	3511.1	3533.9	3576.0	3611.7	3649.0	3618.2	3579.3	3550.1	3511.1	3509.6
27.5°	3605.2	3616.6	3644.2	3696.0	3741.5	3773.9	3744.7	3694.4	3653.9	3606.9	3605.2
30°	3751.2	3762.6	3795.0	3850.1	3881.0	3902.1	3882.6	3843.6	3795.0	3741.5	3741.5
32.5°	3939.4	3953.9	3989.6	4041.5	4048.0	4051.2	4044.8	4025.3	3989.6	3924.7	3926.4
35°	4177.7	4194.0	4234.5	4276.7	4270.2	4276.7	4267.0	4260.4	4234.5	4159.9	4159.9
37.5°	4469.6	4489.1	4531.3	4563.7	4547.5	4539.4	4541.1	4542.6	4528.0	4445.3	4445.3
40°	4808.6	4834.5	4865.4	4899.4	4871.8	4847.5	4863.7	4876.7	4863.7	4779.4	4779.4
42.5°	5157.3	5194.6	5227.0	5275.7	5253.0	5222.2	5244.9	5259.5	5231.9	5141.1	5147.5
45°	5544.9	5580.6	5622.7	5695.7	5679.5	5647.0	5679.5	5682.8	5635.8	5528.6	5540.0
47.5°	5945.5	5982.8	6046.1	6143.3	6136.9	6101.2	6143.3	6120.7	6060.6	5932.5	5924.4
50°	6325.0	6376.9	6474.2	6610.4	6623.4	6579.6	6636.4	6592.6	6492.0	6331.5	6328.2
52.5°	6681.8	6736.9	6891.0	7075.9	7122.9	7066.1	7142.4	7066.1	6915.4	6709.3	6689.9
55°	7056.4	7118.0	7301.3	7543.0	7637.1	7594.8	7666.2	7551.1	7337.0	7087.3	7053.1
57.5°	7497.6	7534.9	7753.8	8040.8	8199.8	8209.5	8241.9	8047.4	7787.8	7504.0	7465.1
60°	7975.9	8027.9	8266.3	8610.1	8861.4	8942.6	8908.5	8619.8	8318.2	7992.2	7940.3
62.5°	8589.0	8645.8	8931.2	9343.2	9740.5	9941.6	9808.6	9390.1	9017.1	8626.3	8558.2
65°	9096.7	9159.9	9675.6	10410.3	11133.7	11537.4	11203.4	10433.0	9761.6	9210.1	9119.3
67.5°	8728.5	8806.3	9615.6	10964.9	12763.5	13968.5	12825.1	11130.4	9815.1	9067.5	8955.5
70°	7628.9	7701.8	8645.8	10295.1	13222.5	15862.8	13498.2	10598.4	8676.6	7839.7	7727.9
72.5°	5064.8	5300.0	6255.3	8233.8	11806.7	14678.8	11923.4	8066.7	5802.7	5053.5	4889.7
75°	1680.2	1868.3	2520.3	4268.5	7907.9	10978.0	7528.3	3777.1	1996.4	1436.9	1359.0
77.5°	423.3	488.2	673.0	1221.2	3154.3	6250.3	2839.8	997.4	543.2	379.5	339.0
80°	205.9	227.0	324.3	407.0	789.8	1986.7	741.2	382.7	256.2	197.8	181.6
82.5°	113.6	115.1	183.3	230.3	293.6	514.1	304.9	223.8	147.6	120.0	120.0
85°	69.7	68.2	97.3	123.2	123.2	183.3	146.0	123.2	84.4	74.6	77.8
87.5°	27.6	27.6	35.7	38.9	34.0	47.0	37.3	40.6	32.4	30.9	32.4
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)