

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: P964613

Luminaire Tested: **NAV-SB3C-750-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964613
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-750-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25533.8 lumens
Efficiency: N/A
Efficacy: 171.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

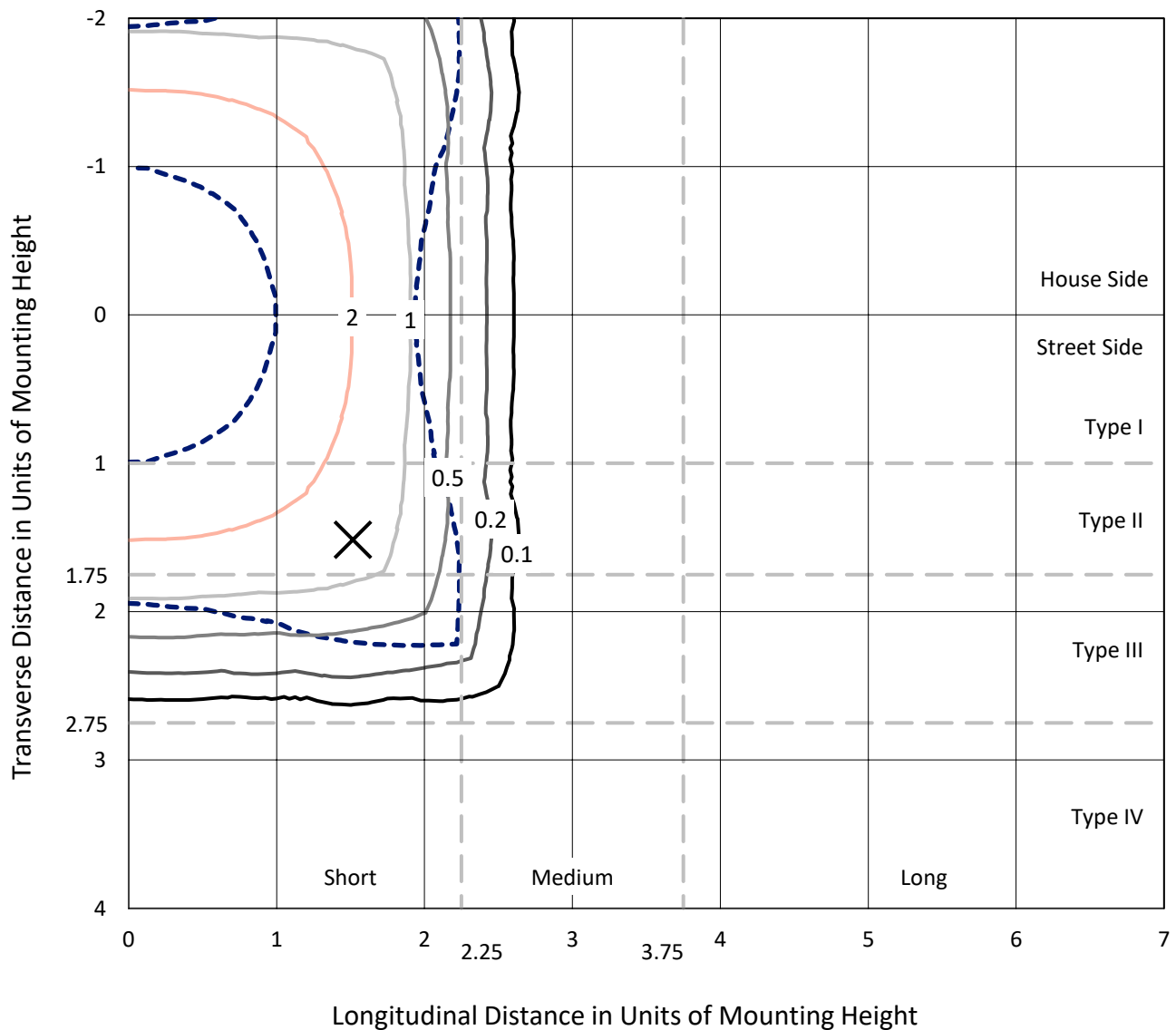
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

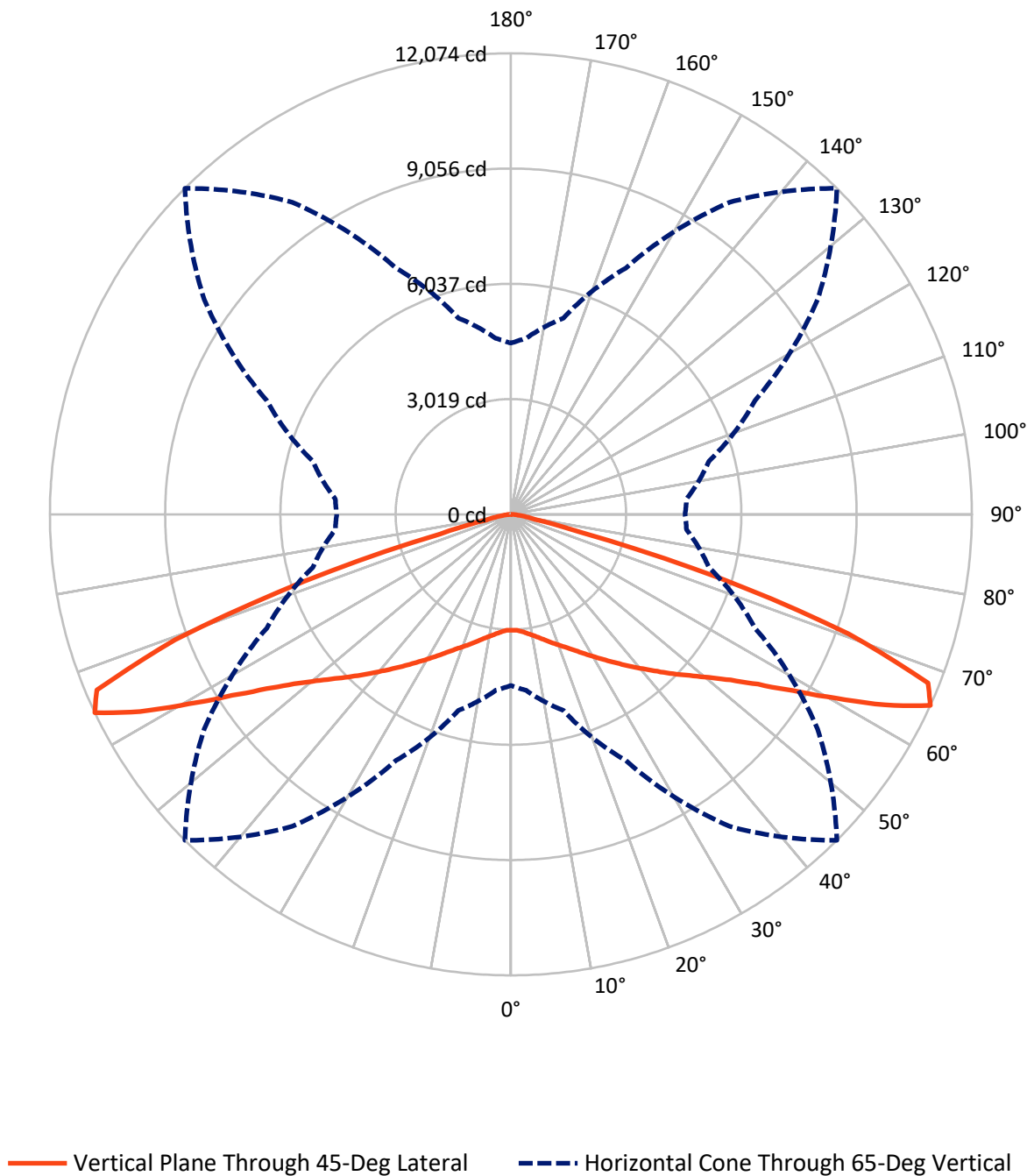
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	12766.9	0.0	12766.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12766.9	0.0	12766.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	25533.8	0.0	25533.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.9	1.2
10°-20°	978.6	3.8
20°-30°	1847.7	7.2
30°-40°	3025.5	11.8
40°-50°	4691.1	18.4
50°-60°	6929.7	27.1
60°-70°	6596.5	25.8
70°-80°	1064.4	4.2
80°-90°	100.3	0.4
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°	25533.8	100.0
0°-180°	25533.8	100.0

Coefficient of Utilization



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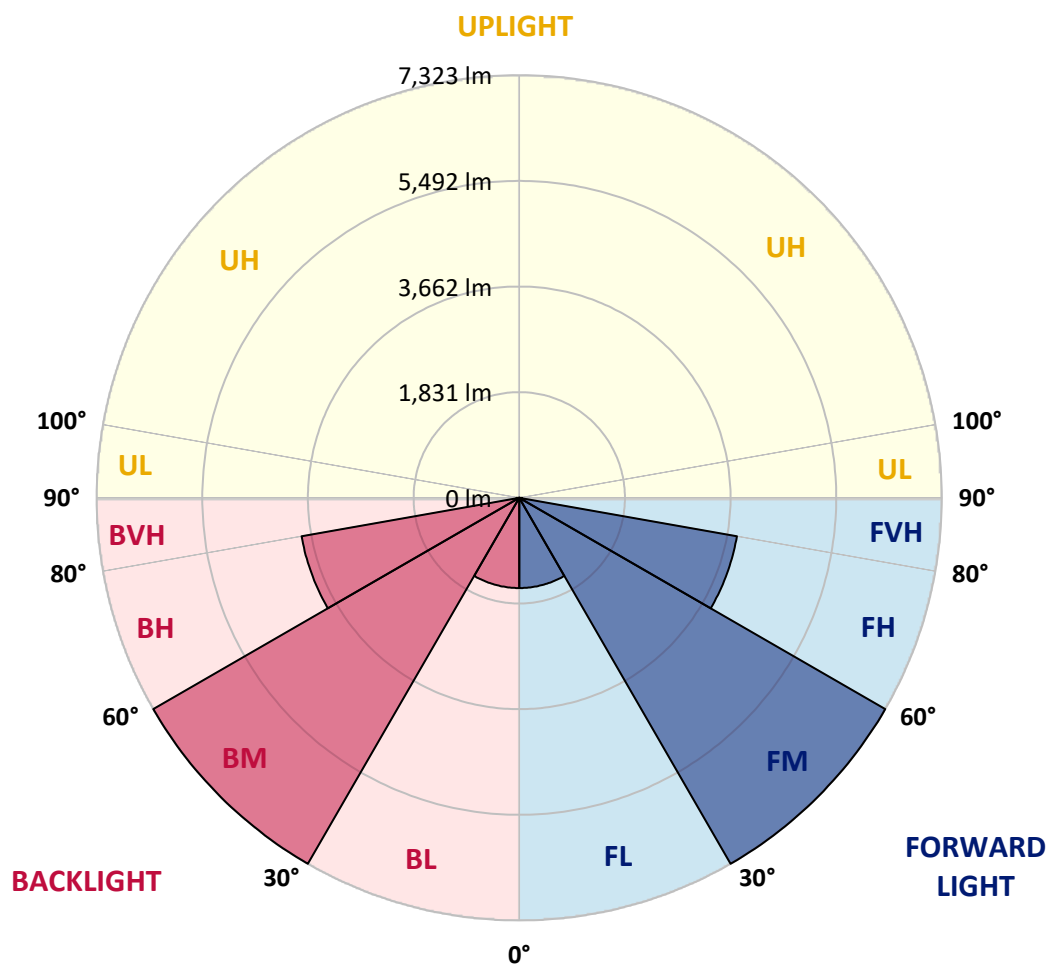
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1563.1	6.1			
FM	(30°-60°)	7323.2	28.7			
FH	(60°-80°)	3830.5	15.0			G2/5000
FVH	(80°-90°)	50.2	0.2			G1/100
BL	(0°-30°)	1563.1	6.1	B3/2500		
BM	(30°-60°)	7323.2	28.7	B4/8500		
BH	(60°-80°)	3830.5	15.0	B4/5000		G2/5000
BVH	(80°-90°)	50.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3038.8	3038.8	3038.8	3038.8	3038.8	3038.8	3038.8	3038.8	3038.8	3038.8	3038.8
2.5°	3059.3	3049.1	3056.8	3050.3	3045.2	3040.0	3042.6	3051.6	3055.4	3056.8	3056.8
5°	3100.3	3091.3	3095.2	3095.2	3086.2	3083.6	3084.9	3091.3	3099.0	3099.0	3099.0
7.5°	3166.8	3157.9	3166.8	3161.7	3154.0	3151.5	3150.2	3155.4	3166.8	3166.8	3163.0
10°	3247.6	3237.4	3242.5	3239.9	3230.9	3227.1	3225.8	3233.5	3243.7	3242.5	3239.9
12.5°	3336.0	3324.5	3330.8	3323.2	3320.6	3316.8	3316.8	3315.5	3321.9	3316.8	3319.4
15°	3434.7	3427.0	3429.5	3424.4	3428.2	3425.7	3415.4	3410.3	3412.8	3405.2	3406.5
17.5°	3551.2	3533.3	3542.3	3539.7	3539.7	3544.9	3528.2	3521.8	3526.9	3519.2	3525.6
20°	3685.7	3667.8	3671.7	3666.5	3660.1	3665.2	3644.7	3649.8	3653.7	3648.6	3660.1
22.5°	3833.1	3810.0	3808.7	3811.3	3797.2	3798.4	3784.4	3797.2	3804.9	3790.8	3804.9
25°	3984.3	3959.9	3976.6	3970.1	3952.2	3956.1	3945.8	3958.7	3965.0	3947.1	3967.6
27.5°	4144.4	4127.7	4143.0	4146.9	4125.1	4140.5	4125.1	4136.7	4143.0	4116.2	4136.7
30°	4331.4	4314.7	4328.9	4339.1	4313.5	4337.8	4325.0	4332.7	4334.0	4301.9	4321.2
32.5°	4535.1	4509.5	4545.4	4550.5	4522.3	4551.7	4535.1	4545.4	4551.7	4508.2	4537.7
35°	4783.7	4751.6	4792.6	4786.2	4761.8	4786.2	4770.9	4786.2	4801.6	4749.0	4781.1
37.5°	5051.4	5018.1	5061.7	5050.1	5027.0	5043.7	5034.7	5044.9	5069.3	5013.0	5047.5
40°	5346.0	5305.1	5363.9	5343.4	5321.7	5319.1	5324.3	5330.7	5362.7	5300.0	5320.5
42.5°	5661.2	5617.6	5706.1	5674.0	5643.2	5622.7	5639.4	5652.3	5683.0	5612.5	5649.7
45°	6021.2	5971.2	6086.6	6048.1	5999.4	5957.1	5984.1	6003.2	6048.1	5963.6	6007.1
47.5°	6418.3	6362.0	6485.0	6473.4	6394.0	6301.7	6363.2	6418.3	6451.7	6349.2	6383.7
50°	6806.5	6763.0	6924.4	6938.4	6841.1	6711.7	6797.5	6880.8	6889.7	6755.3	6771.9
52.5°	7170.3	7126.7	7361.2	7449.6	7362.5	7208.7	7299.7	7384.3	7316.3	7142.1	7147.2
55°	7461.2	7425.3	7723.8	7951.8	7981.3	7854.5	7908.3	7905.7	7682.8	7415.1	7424.0
57.5°	7531.6	7526.5	7903.2	8386.1	8693.5	8708.9	8602.6	8331.0	7850.6	7490.6	7467.5
60°	7211.3	7243.4	7760.9	8612.9	9432.8	9773.6	9313.7	8538.6	7659.7	7160.0	7101.2
62.5°	6253.0	6337.6	6961.5	8336.1	10029.7	10998.2	9883.7	8223.4	6875.7	6223.6	6185.2
65°	4481.3	4628.6	5317.9	7113.9	9975.9	12074.4	9801.7	7056.3	5369.1	4617.1	4562.0
67.5°	2033.1	2183.0	2768.4	4870.8	8671.8	11782.3	8651.3	4921.9	2906.8	2190.7	2158.6
70°	736.7	762.3	950.6	1949.9	5542.1	9387.9	5779.1	1963.9	1010.8	812.2	802.0
72.5°	445.8	449.7	489.3	698.2	1925.5	5699.6	2007.5	721.3	499.6	443.3	450.9
75°	283.1	280.5	348.5	426.6	682.9	1922.9	716.2	426.6	347.2	316.4	319.0
77.5°	203.7	210.1	249.8	319.0	430.5	652.1	422.8	304.9	249.8	205.0	208.8
80°	152.4	156.3	181.9	248.6	302.4	406.1	269.1	225.5	188.3	128.1	131.9
82.5°	110.2	110.2	119.1	180.6	184.5	219.0	146.1	158.9	124.2	90.9	90.9
85°	65.3	64.1	74.3	107.6	96.0	80.7	66.6	97.4	78.1	56.4	55.0
87.5°	23.1	24.3	23.1	30.7	25.6	21.7	20.5	26.9	21.7	19.2	17.9
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)