

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: P965078

Luminaire Tested: **NAV-SB3D-735-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965078
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-SB3D-735-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32793.8 lumens
Efficiency: N/A
Efficacy: 150.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

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

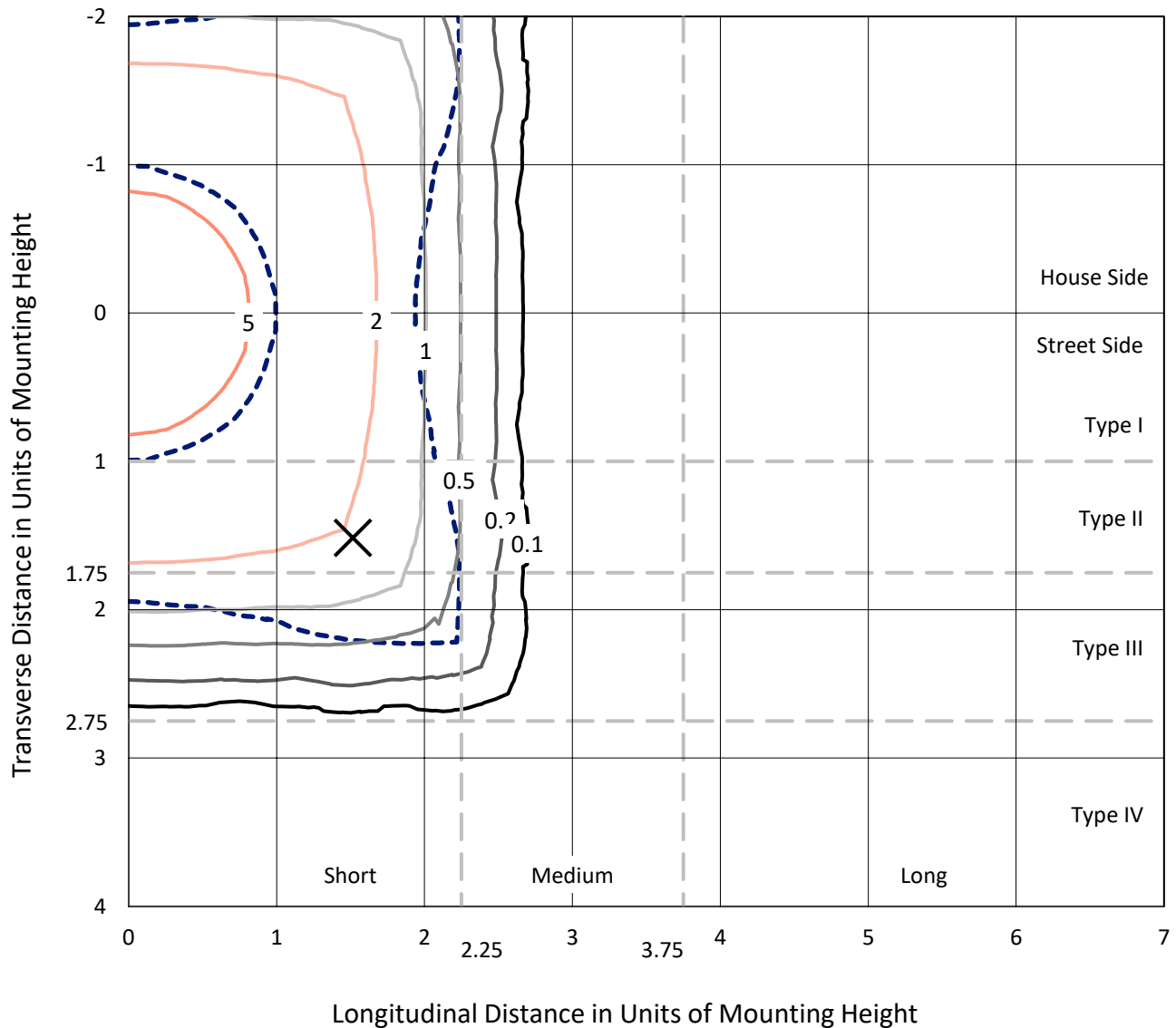


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Iso-Footcandle Lines of Horizontal Illumination

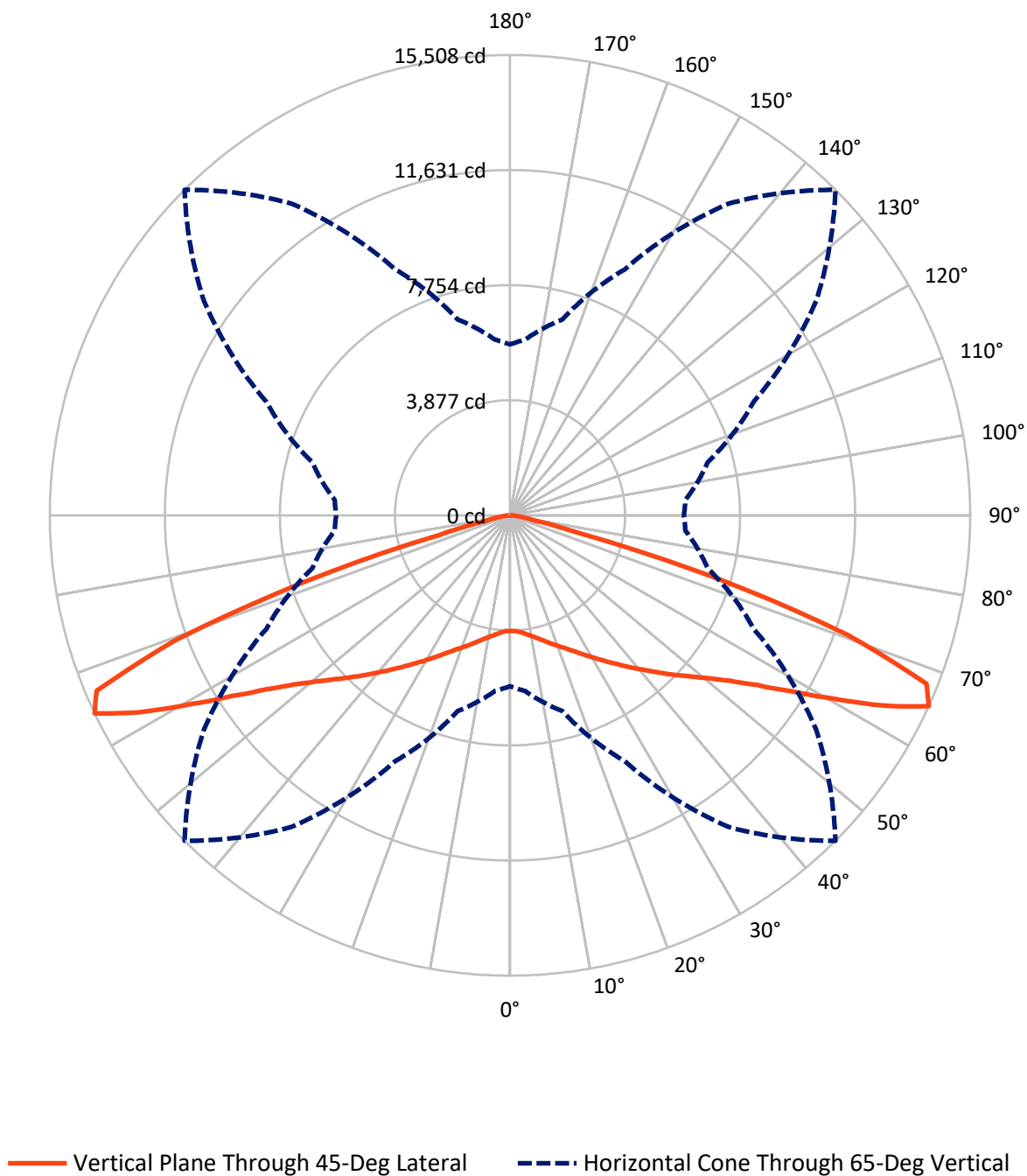
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	16396.9	0.0	16396.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16396.9	0.0	16396.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	32793.8	0.0	32793.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.2	1.2
10°-20°	1256.8	3.8
20°-30°	2373.0	7.2
30°-40°	3885.8	11.8
40°-50°	6024.9	18.4
50°-60°	8900.1	27.1
60°-70°	8472.1	25.8
70°-80°	1367.1	4.2
80°-90°	128.9	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°	32793.8	100.0
0°-180°	32793.8	100.0

Coefficient of Utilization



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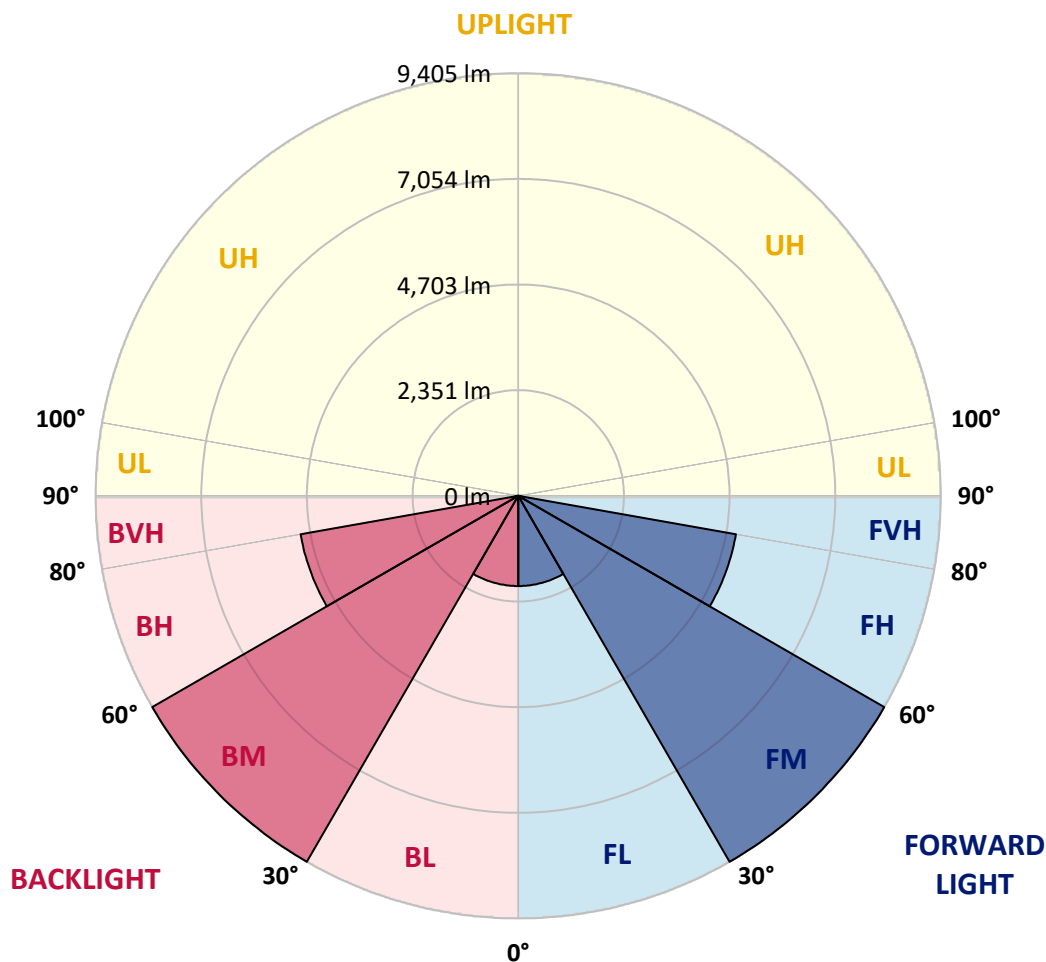
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2007.5	6.1			
FM	(30°-60°)	9405.4	28.7			
FH	(60°-80°)	4919.6	15.0			G2/5000
FVH	(80°-90°)	64.4	0.2			G1/100
BL	(0°-30°)	2007.5	6.1	B3/2500		
BM	(30°-60°)	9405.4	28.7	B5		
BH	(60°-80°)	4919.6	15.0	B4/5000		G2/5000
BVH	(80°-90°)	64.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3902.8	3902.8	3902.8	3902.8	3902.8	3902.8	3902.8	3902.8	3902.8	3902.8	3902.8
2.5°	3929.1	3915.9	3925.9	3917.7	3911.0	3904.4	3907.7	3919.3	3924.2	3925.9	3925.9
5°	3981.8	3970.2	3975.2	3975.2	3963.7	3960.4	3962.0	3970.2	3980.2	3980.2	3980.2
7.5°	4067.3	4055.8	4067.3	4060.7	4050.9	4047.6	4046.0	4052.5	4067.3	4067.3	4062.4
10°	4171.0	4157.8	4164.4	4161.1	4149.6	4144.7	4143.0	4152.9	4166.0	4164.4	4161.1
12.5°	4284.5	4269.7	4277.9	4268.1	4264.8	4259.8	4259.8	4258.2	4266.5	4259.8	4263.2
15°	4411.2	4401.3	4404.6	4398.1	4403.0	4399.7	4386.5	4379.9	4383.2	4373.4	4375.0
17.5°	4560.9	4537.9	4549.5	4546.2	4546.2	4552.7	4531.3	4523.1	4529.7	4519.8	4528.0
20°	4733.7	4710.7	4715.6	4709.1	4700.8	4707.4	4681.1	4687.6	4692.6	4686.0	4700.8
22.5°	4922.9	4893.3	4891.6	4895.0	4876.8	4878.5	4860.3	4876.8	4886.7	4868.6	4886.7
25°	5117.1	5085.8	5107.2	5099.0	5075.9	5080.9	5067.7	5084.2	5092.4	5069.3	5095.7
27.5°	5322.7	5301.4	5321.1	5326.0	5298.0	5317.8	5298.0	5312.9	5321.1	5286.5	5312.9
30°	5563.0	5541.6	5559.7	5572.8	5539.9	5571.2	5554.8	5564.6	5566.3	5525.2	5549.8
32.5°	5824.6	5791.7	5837.8	5844.3	5808.2	5846.0	5824.6	5837.8	5846.0	5790.0	5827.8
35°	6143.7	6102.6	6155.3	6147.0	6115.8	6147.0	6127.3	6147.0	6166.8	6099.4	6140.5
37.5°	6487.6	6444.9	6500.9	6486.0	6456.4	6477.8	6466.3	6479.4	6510.7	6438.3	6482.7
40°	6866.1	6813.5	6889.1	6862.8	6834.8	6831.5	6838.1	6846.4	6887.5	6806.8	6833.2
42.5°	7270.8	7214.9	7328.4	7287.3	7247.8	7221.5	7242.9	7259.4	7298.8	7208.3	7256.1
45°	7733.2	7669.0	7817.1	7767.8	7705.2	7650.9	7685.4	7710.2	7767.8	7659.1	7715.1
47.5°	8243.3	8170.9	8328.8	8314.0	8212.0	8093.5	8172.5	8243.3	8286.0	8154.4	8198.9
50°	8741.8	8685.8	8893.2	8911.2	8786.2	8620.0	8730.3	8837.2	8848.7	8676.0	8697.3
52.5°	9209.1	9153.1	9454.3	9567.8	9455.9	9258.4	9375.3	9483.8	9396.7	9172.9	9179.5
55°	9582.6	9536.5	9919.8	10212.8	10250.6	10087.7	10156.8	10153.5	9867.3	9523.4	9534.9
57.5°	9673.0	9666.5	10150.3	10770.5	11165.4	11185.2	11048.6	10699.8	10082.8	9620.4	9590.8
60°	9261.7	9302.9	9967.6	11061.8	12114.8	12552.5	11961.7	10966.4	9837.6	9195.9	9120.2
62.5°	8031.0	8139.6	8940.9	10706.3	12881.5	14125.4	12694.0	10561.6	8830.7	7993.2	7943.9
65°	5755.5	5944.7	6829.9	9136.6	12812.4	15507.5	12588.6	9062.6	6895.7	5929.8	5859.1
67.5°	2611.2	2803.7	3555.6	6255.7	11137.4	15132.4	11111.1	6321.5	3733.4	2813.5	2772.4
70°	946.1	979.0	1220.9	2504.3	7117.8	12057.2	7422.2	2522.3	1298.2	1043.1	1030.0
72.5°	572.6	577.5	628.5	896.8	2473.0	7320.2	2578.3	926.3	641.6	569.3	579.1
75°	363.7	360.3	447.5	547.9	877.0	2469.7	919.7	547.9	445.9	406.4	409.7
77.5°	261.6	269.9	320.8	409.7	552.9	837.5	542.9	391.5	320.8	263.2	268.2
80°	195.8	200.7	233.6	319.2	388.3	521.6	345.5	289.6	241.9	164.5	169.4
82.5°	141.4	141.4	153.0	232.0	237.0	281.4	187.6	204.0	159.6	116.8	116.8
85°	83.9	82.3	95.4	138.2	123.4	103.6	85.6	125.0	100.3	72.4	70.7
87.5°	29.6	31.3	29.6	39.5	32.9	28.0	26.3	34.5	28.0	24.7	23.1
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)