

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: P969294

Luminaire Tested: **NAV-SB5D-735-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969294
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-SB5D-735-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 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: 55211.6 lumens
Efficiency: N/A
Efficacy: 151.3 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): 364.9
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

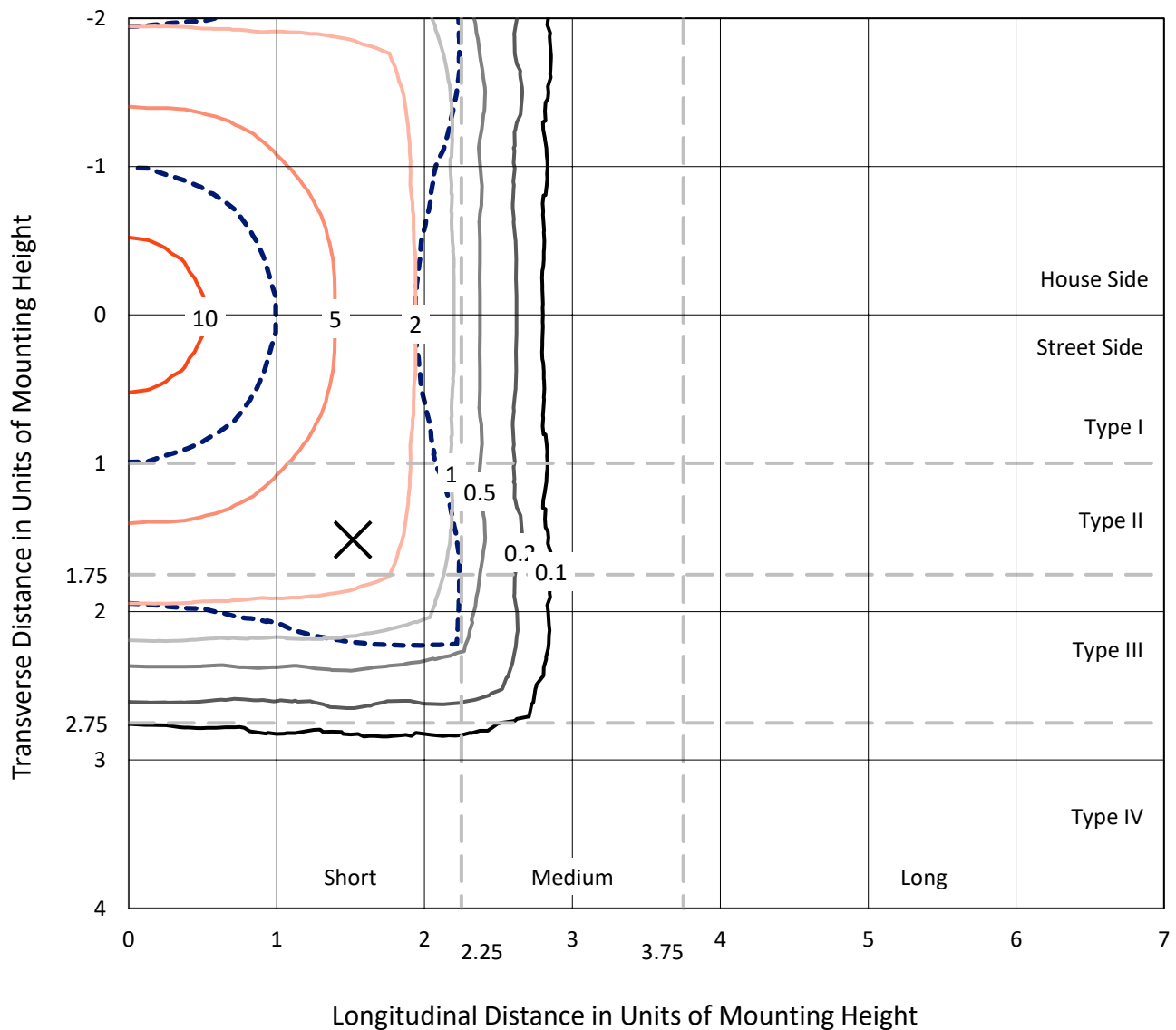


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Iso-Footcandle Lines of Horizontal Illumination

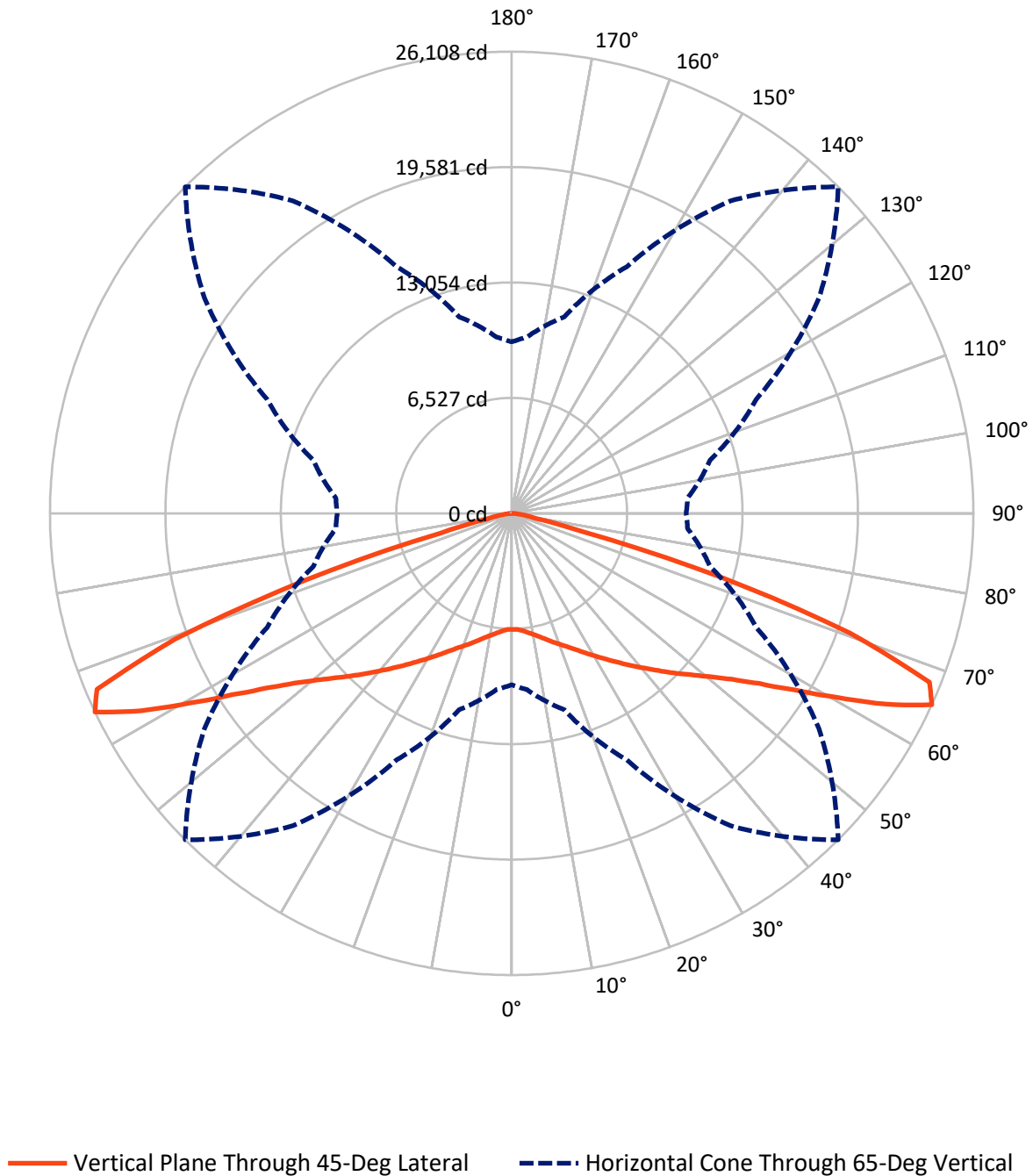
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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	27605.8	0.0	27605.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27605.8	0.0	27605.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	55211.6	0.0	55211.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	648.5	1.2
10°-20°	2116.0	3.8
20°-30°	3995.3	7.2
30°-40°	6542.1	11.8
40°-50°	10143.6	18.4
50°-60°	14984.2	27.1
60°-70°	14263.5	25.8
70°-80°	2301.6	4.2
80°-90°	217.0	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°	55211.6	100.0
0°-180°	55211.6	100.0

Coefficient of Utilization



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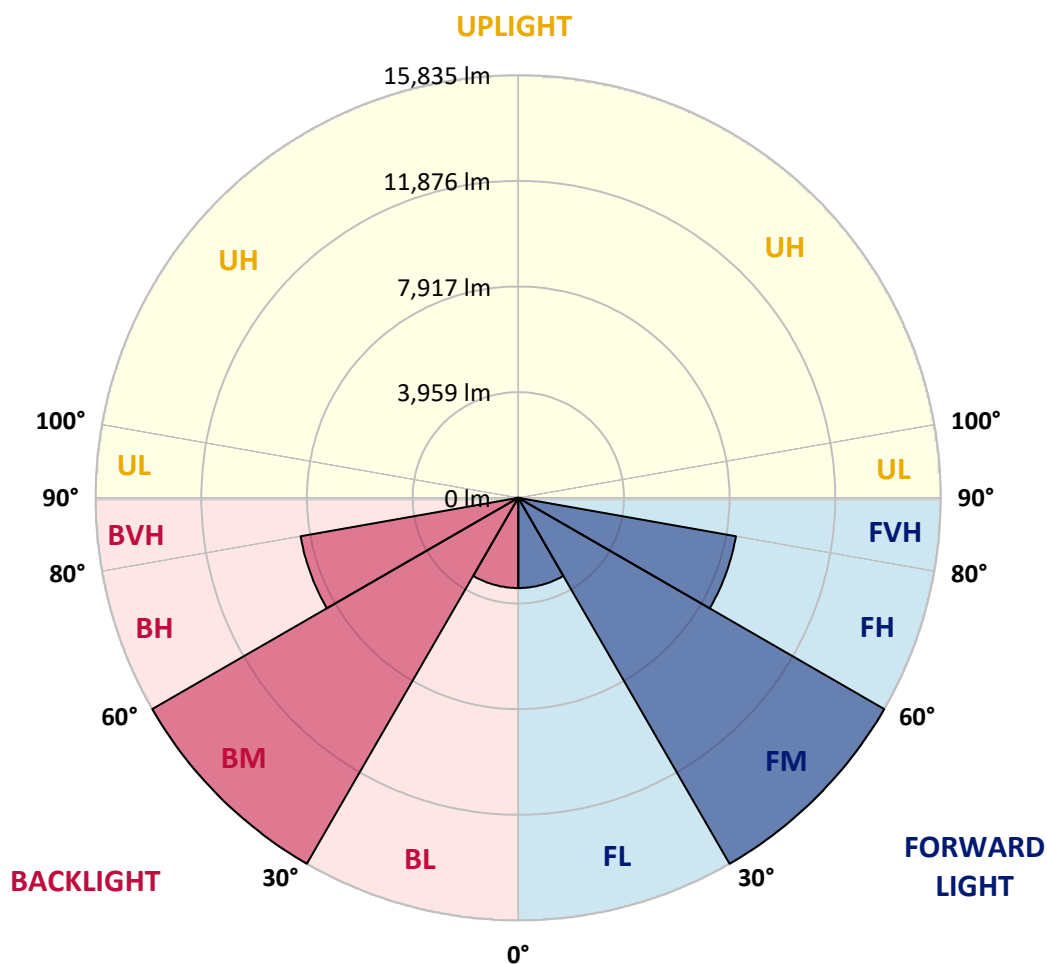
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3379.9	6.1			
FM	(30°-60°)	15834.9	28.7			
FH	(60°-80°)	8282.6	15.0			G4/12000
FVH	(80°-90°)	108.5	0.2			G2/225
BL	(0°-30°)	3379.9	6.1	B4/5000		
BM	(30°-60°)	15834.9	28.7	B5		
BH	(60°-80°)	8282.6	15.0	B5		G4/12000
BVH	(80°-90°)	108.5	0.2			G2/225
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°	6570.8	6570.8	6570.8	6570.8	6570.8	6570.8	6570.8	6570.8	6570.8	6570.8	6570.8
2.5°	6615.0	6592.9	6609.5	6595.7	6584.6	6573.5	6579.1	6598.4	6606.7	6609.5	6609.5
5°	6703.7	6684.3	6692.6	6692.6	6673.3	6667.7	6670.5	6684.3	6700.9	6700.9	6700.9
7.5°	6847.7	6828.3	6847.7	6836.6	6820.0	6814.5	6811.7	6822.8	6847.7	6847.7	6839.4
10°	7022.3	7000.1	7011.2	7005.7	6986.3	6978.0	6975.1	6991.8	7014.0	7011.2	7005.7
12.5°	7213.4	7188.4	7202.4	7185.7	7180.1	7171.8	7171.8	7169.1	7182.9	7171.8	7177.4
15°	7426.7	7410.0	7415.7	7404.5	7412.9	7407.3	7385.1	7374.1	7379.6	7363.0	7365.8
17.5°	7678.8	7640.0	7659.4	7653.9	7653.9	7664.9	7629.0	7615.0	7626.1	7609.5	7623.3
20°	7969.7	7930.8	7939.1	7928.1	7914.2	7925.3	7881.0	7892.1	7900.4	7889.3	7914.2
22.5°	8288.3	8238.3	8235.6	8241.1	8210.7	8213.4	8183.0	8210.7	8227.3	8196.8	8227.3
25°	8615.1	8562.4	8598.4	8584.6	8545.8	8554.1	8532.0	8559.7	8573.5	8534.8	8579.0
27.5°	8961.4	8925.4	8958.6	8966.9	8919.8	8953.1	8919.8	8944.8	8958.6	8900.4	8944.8
30°	9365.8	9329.8	9360.3	9382.4	9327.0	9379.7	9351.9	9368.6	9371.4	9302.1	9343.6
32.5°	9806.3	9750.8	9828.4	9839.5	9778.5	9842.3	9806.3	9828.4	9842.3	9748.1	9811.8
35°	10343.7	10274.4	10363.1	10349.2	10296.5	10349.2	10315.9	10349.2	10382.4	10268.9	10338.2
37.5°	10922.6	10850.5	10944.7	10919.8	10869.9	10906.0	10886.6	10908.8	10961.3	10839.5	10914.3
40°	11559.7	11471.1	11598.5	11554.2	11507.1	11501.5	11512.6	11526.5	11595.7	11460.0	11504.3
42.5°	12241.2	12147.0	12338.1	12268.8	12202.4	12158.0	12194.1	12221.8	12288.3	12135.9	12216.3
45°	13019.6	12911.5	13160.9	13077.8	12972.5	12881.1	12939.3	12980.8	13077.8	12894.9	12989.1
47.5°	13878.3	13756.4	14022.4	13997.4	13825.7	13626.2	13759.2	13878.3	13950.4	13728.7	13803.6
50°	14717.7	14623.5	14972.5	15003.0	14792.5	14512.7	14698.3	14878.4	14897.8	14606.9	14642.8
52.5°	15504.4	15410.2	15917.1	16108.3	15919.9	15587.5	15784.2	15967.0	15820.2	15443.5	15454.5
55°	16133.2	16055.6	16701.0	17194.2	17257.9	16983.6	17100.0	17094.4	16612.5	16033.5	16052.8
57.5°	16285.6	16274.4	17088.9	18133.3	18798.1	18831.3	18601.4	18014.2	16975.3	16196.9	16147.0
60°	15593.0	15662.3	16781.4	18623.5	20396.5	21133.2	20138.8	18462.9	16562.6	15482.2	15354.8
62.5°	13521.0	13703.8	15052.8	18025.2	21687.3	23781.5	21371.6	17781.4	14867.2	13457.2	13374.2
65°	9689.9	10008.5	11498.8	15382.5	21570.9	26108.4	21194.2	15257.8	11609.6	9983.5	9864.4
67.5°	4396.2	4720.3	5986.2	10532.0	18750.9	25476.8	18706.7	10642.8	6285.4	4736.9	4667.6
70°	1592.8	1648.2	2055.4	4216.1	11983.6	20299.5	12496.1	4246.6	2185.6	1756.2	1734.1
72.5°	964.0	972.3	1058.2	1509.7	4163.4	12324.3	4340.8	1559.5	1080.4	958.5	975.1
75°	612.2	606.7	753.5	922.5	1476.5	4157.9	1548.5	922.5	750.7	684.2	689.7
77.5°	440.4	454.3	540.2	689.7	930.8	1410.0	914.1	659.3	540.2	443.2	451.5
80°	329.6	337.9	393.4	537.4	653.7	878.1	581.7	487.6	407.2	277.1	285.4
82.5°	238.2	238.2	257.6	390.6	398.9	473.7	315.8	343.5	268.7	196.7	196.7
85°	141.2	138.5	160.6	232.7	207.8	174.6	144.0	210.5	169.0	121.9	119.1
87.5°	49.8	52.6	49.8	66.5	55.5	47.0	44.3	58.2	47.0	41.5	38.7
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)