

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: P967186

Luminaire Tested: **NAV-SB4D-735-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967186
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-SB4D-735-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 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: 43804.4 lumens
Efficiency: N/A
Efficacy: 149.2 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): 293.6
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

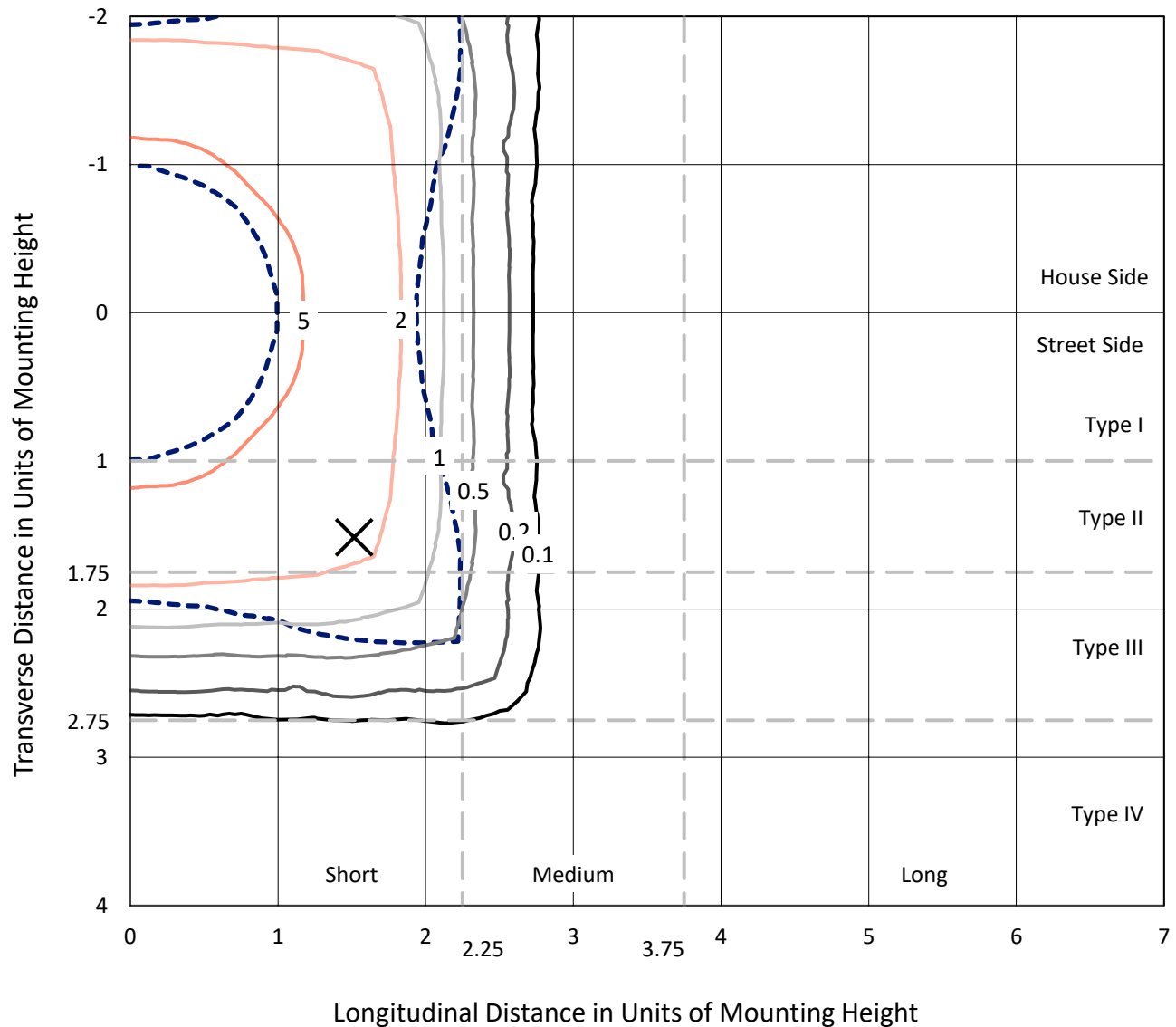


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Iso-Footcandle Lines of Horizontal Illumination

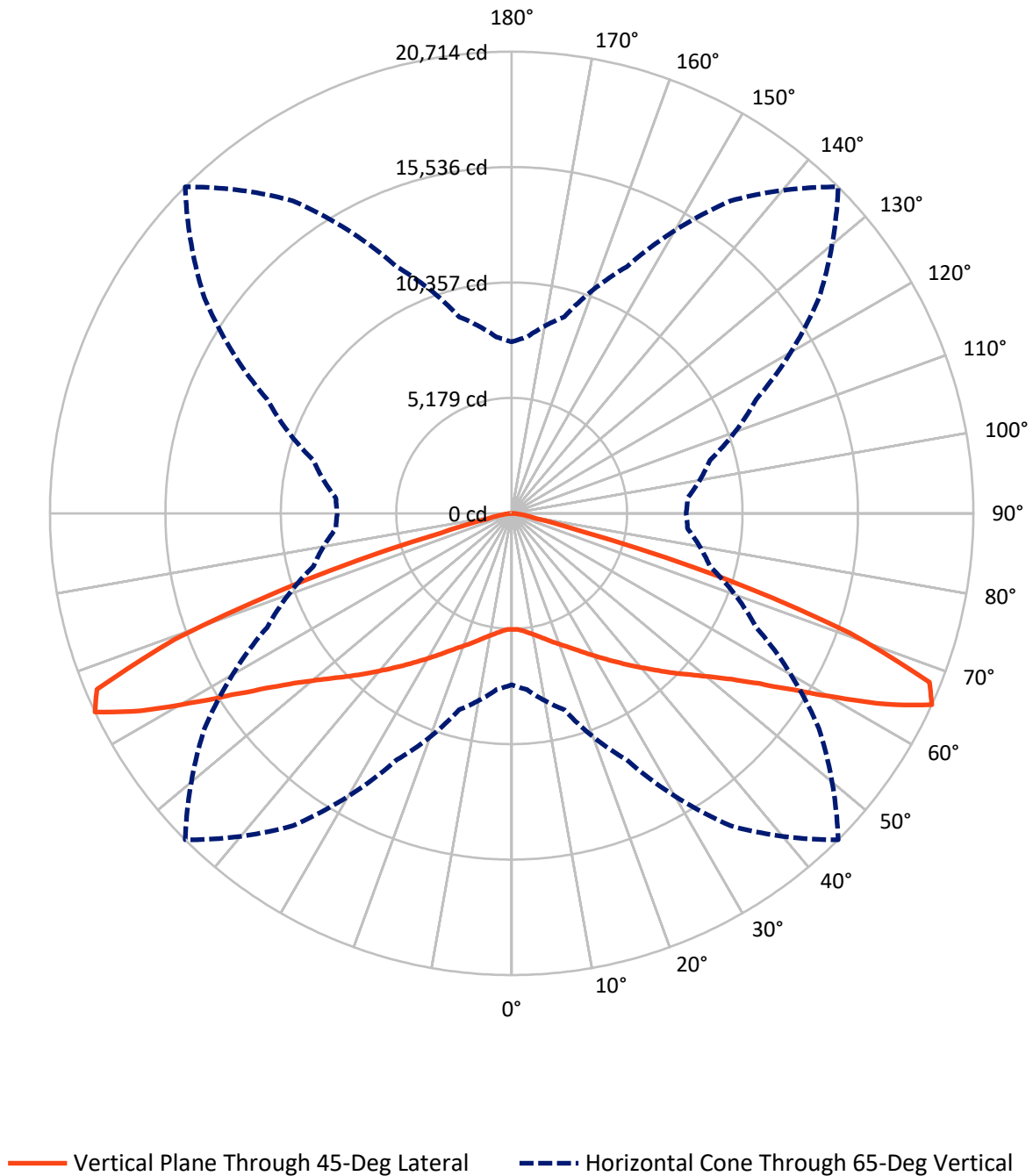
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	21902.2	0.0	21902.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21902.2	0.0	21902.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	43804.4	0.0	43804.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.5	1.2
10°-20°	1678.8	3.8
20°-30°	3169.8	7.2
30°-40°	5190.4	11.8
40°-50°	8047.8	18.4
50°-60°	11888.3	27.1
60°-70°	11316.6	25.8
70°-80°	1826.1	4.2
80°-90°	172.1	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°	43804.4	100.0
0°-180°	43804.4	100.0

Coefficient of Utilization



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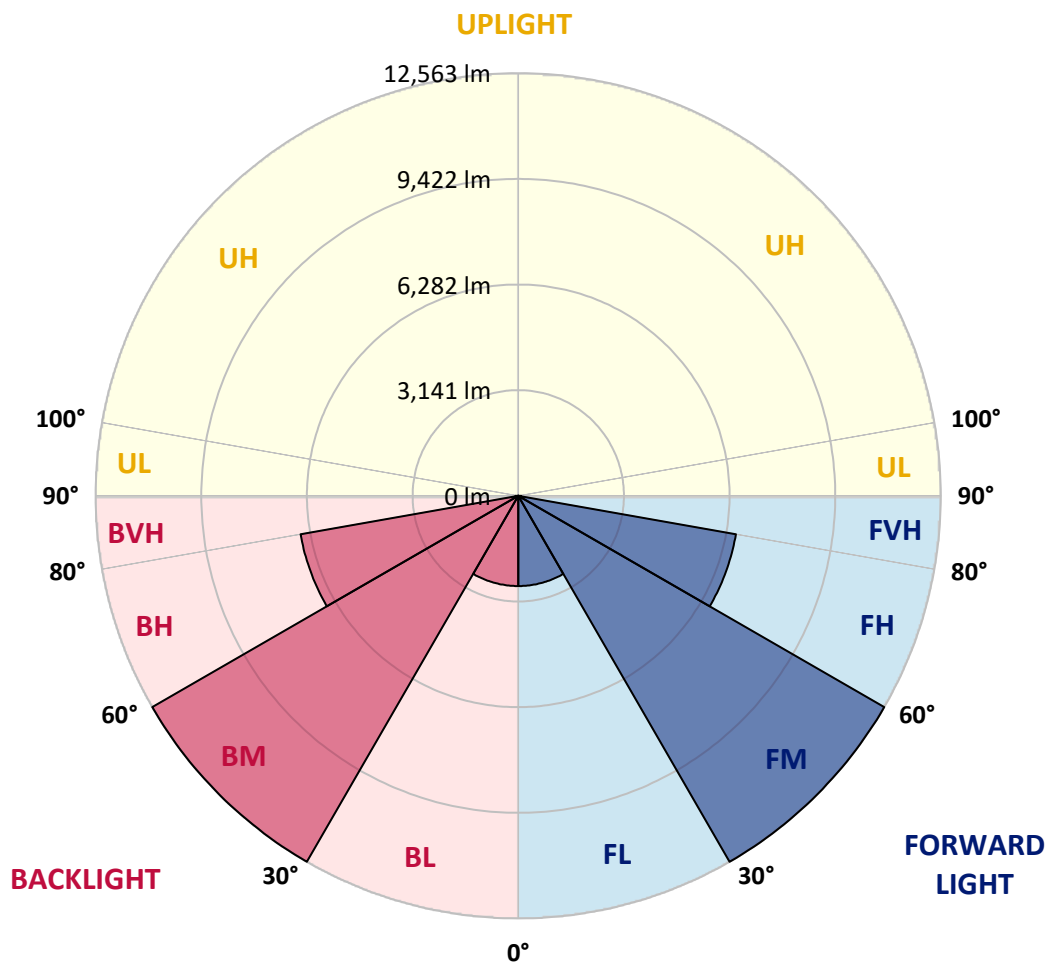
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2681.5	6.1			
FM	(30°-60°)	12563.3	28.7			
FH	(60°-80°)	6571.3	15.0			G3/7500
FVH	(80°-90°)	86.1	0.2			G1/100
BL	(0°-30°)	2681.5	6.1	B4/5000		
BM	(30°-60°)	12563.3	28.7	B5		
BH	(60°-80°)	6571.3	15.0	B5		G3/7500
BVH	(80°-90°)	86.1	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-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5213.2	5213.2	5213.2	5213.2	5213.2	5213.2	5213.2	5213.2	5213.2	5213.2	5213.2
2.5°	5248.3	5230.8	5243.9	5232.9	5224.1	5215.4	5219.7	5235.2	5241.7	5243.9	5243.9
5°	5318.6	5303.2	5309.9	5309.9	5294.4	5290.1	5292.3	5303.2	5316.5	5316.5	5316.5
7.5°	5432.9	5417.5	5432.9	5424.2	5411.0	5406.6	5404.4	5413.1	5432.9	5432.9	5426.3
10°	5571.4	5553.9	5562.6	5558.2	5542.8	5536.2	5534.1	5547.2	5564.8	5562.6	5558.2
12.5°	5723.1	5703.3	5714.3	5701.0	5696.6	5690.1	5690.1	5687.9	5698.9	5690.1	5694.5
15°	5892.3	5879.1	5883.5	5874.7	5881.2	5876.9	5859.3	5850.5	5854.9	5841.7	5843.9
17.5°	6092.3	6061.5	6076.9	6072.5	6072.5	6081.3	6052.7	6041.8	6050.5	6037.4	6048.3
20°	6323.0	6292.3	6298.8	6290.1	6279.0	6287.9	6252.7	6261.5	6268.1	6259.3	6279.0
22.5°	6575.8	6536.2	6534.1	6538.5	6514.3	6516.4	6492.2	6514.3	6527.4	6503.2	6527.4
25°	6835.1	6793.4	6822.0	6810.9	6780.2	6786.7	6769.2	6791.1	6802.2	6771.4	6806.5
27.5°	7109.8	7081.3	7107.7	7114.2	7076.9	7103.2	7076.9	7096.7	7107.7	7061.5	7096.7
30°	7430.7	7402.1	7426.3	7444.0	7400.0	7441.7	7419.8	7432.9	7435.1	7380.2	7413.1
32.5°	7780.2	7736.2	7797.8	7806.6	7758.2	7808.8	7780.2	7797.8	7808.8	7734.0	7784.6
35°	8206.6	8151.6	8221.9	8211.0	8169.1	8211.0	8184.6	8211.0	8237.3	8147.2	8202.2
37.5°	8665.9	8608.8	8683.5	8663.7	8624.1	8652.7	8637.4	8654.9	8696.6	8600.0	8659.3
40°	9171.4	9101.1	9202.1	9167.0	9129.7	9125.3	9134.0	9145.0	9200.0	9092.3	9127.4
42.5°	9712.1	9637.4	9789.0	9734.0	9681.2	9646.1	9674.7	9696.7	9749.4	9628.5	9692.3
45°	10329.6	10244.0	10441.7	10375.8	10292.2	10219.8	10265.9	10298.9	10375.8	10230.7	10305.5
47.5°	11011.0	10914.2	11125.2	11105.5	10969.1	10811.0	10916.5	11011.0	11068.1	10892.3	10951.6
50°	11676.9	11602.2	11879.0	11903.2	11736.2	11514.2	11661.5	11804.3	11819.7	11589.0	11617.6
52.5°	12301.0	12226.3	12628.5	12780.1	12630.7	12366.9	12523.0	12668.1	12551.6	12252.6	12261.5
55°	12799.9	12738.4	13250.5	13641.7	13692.3	13474.6	13567.0	13562.6	13180.2	12720.9	12736.2
57.5°	12920.8	12912.0	13558.2	14386.7	14914.3	14940.6	14758.2	14292.2	13468.1	12850.5	12811.0
60°	12371.3	12426.3	13314.2	14775.8	16182.3	16766.9	15977.9	14648.3	13140.6	12283.5	12182.3
62.5°	10727.4	10872.5	11942.8	14301.0	17206.5	18868.0	16956.0	14107.6	11795.6	10676.9	10610.9
65°	7687.9	7940.6	9123.0	12204.4	17114.2	20714.2	16815.3	12105.5	9211.0	7920.8	7826.3
67.5°	3487.9	3745.0	4749.4	8356.0	14876.8	20213.1	14841.7	8443.9	4986.8	3758.3	3703.3
70°	1263.7	1307.7	1630.8	3345.1	9507.7	16105.4	9914.2	3369.2	1734.1	1393.4	1375.9
72.5°	764.9	771.4	839.6	1197.8	3303.3	9778.0	3443.9	1237.4	857.1	760.4	773.7
75°	485.7	481.3	597.8	731.8	1171.5	3298.9	1228.6	731.8	595.6	542.8	547.2
77.5°	349.4	360.4	428.6	547.2	738.4	1118.7	725.3	523.1	428.6	351.7	358.2
80°	261.6	268.1	312.1	426.4	518.6	696.7	461.6	386.8	323.1	219.8	226.4
82.5°	189.0	189.0	204.4	309.9	316.5	375.9	250.5	272.5	213.2	156.0	156.0
85°	112.1	109.9	127.5	184.6	164.8	138.5	114.3	167.1	134.1	96.7	94.5
87.5°	39.6	41.7	39.6	52.8	44.0	37.4	35.2	46.1	37.4	33.0	30.7
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)