

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: P970879

Luminaire Tested: **NAV-SB6C-735-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970879
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-735-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47934.1 lumens
Efficiency: N/A
Efficacy: 159.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

Input Watts (W): 300.9
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

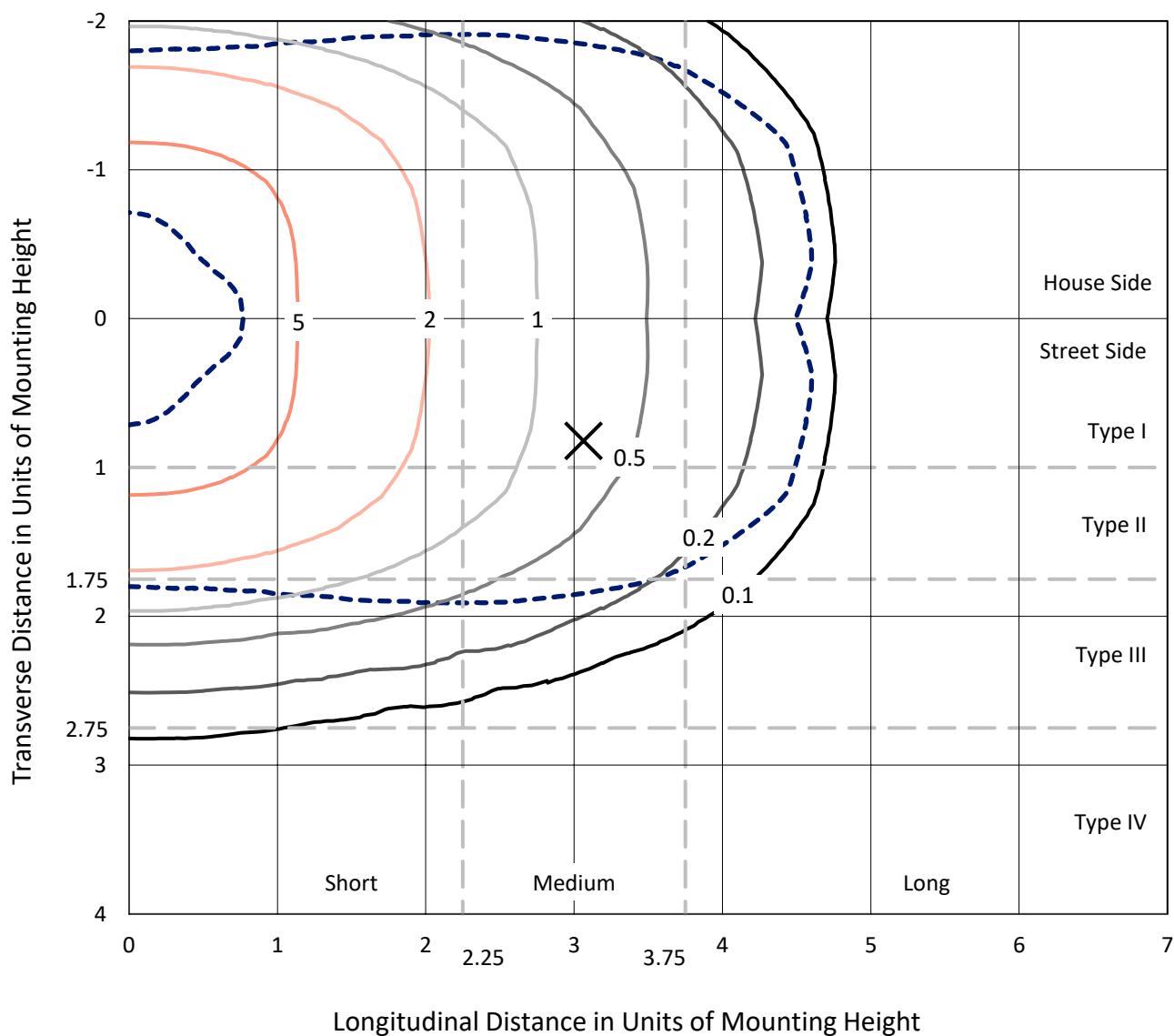


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Iso-Footcandle Lines of Horizontal Illumination

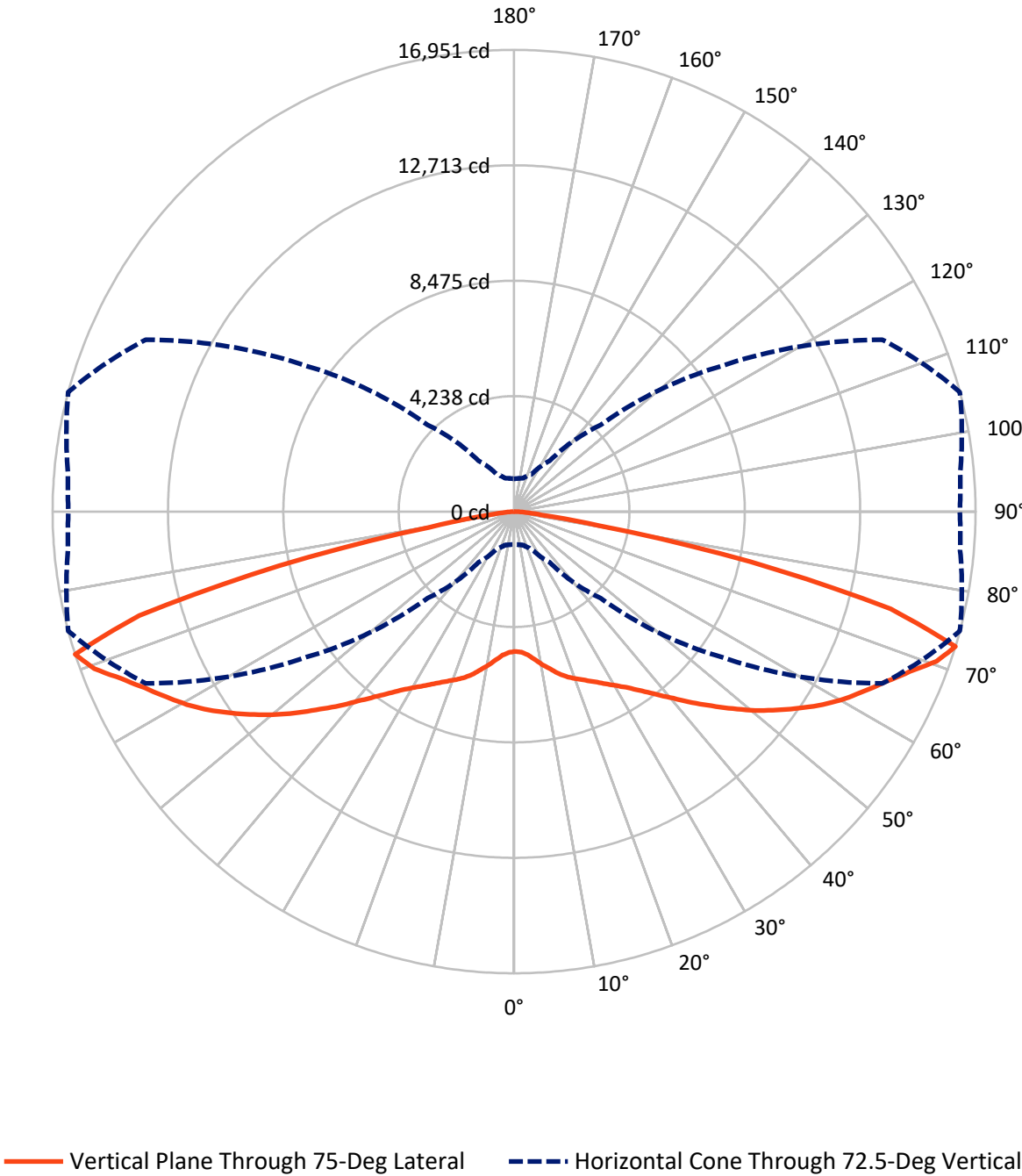
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23967.1	0.0	23967.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23967.1	0.0	23967.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	47934.1	0.0	47934.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.0	1.0
10°-20°	1658.9	3.5
20°-30°	3205.5	6.7
30°-40°	5412.7	11.3
40°-50°	8584.0	17.9
50°-60°	11492.9	24.0
60°-70°	10937.6	22.8
70°-80°	5707.4	11.9
80°-90°	432.0	0.9
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°	47934.1	100.0
0°-180°	47934.1	100.0

Coefficient of Utilization



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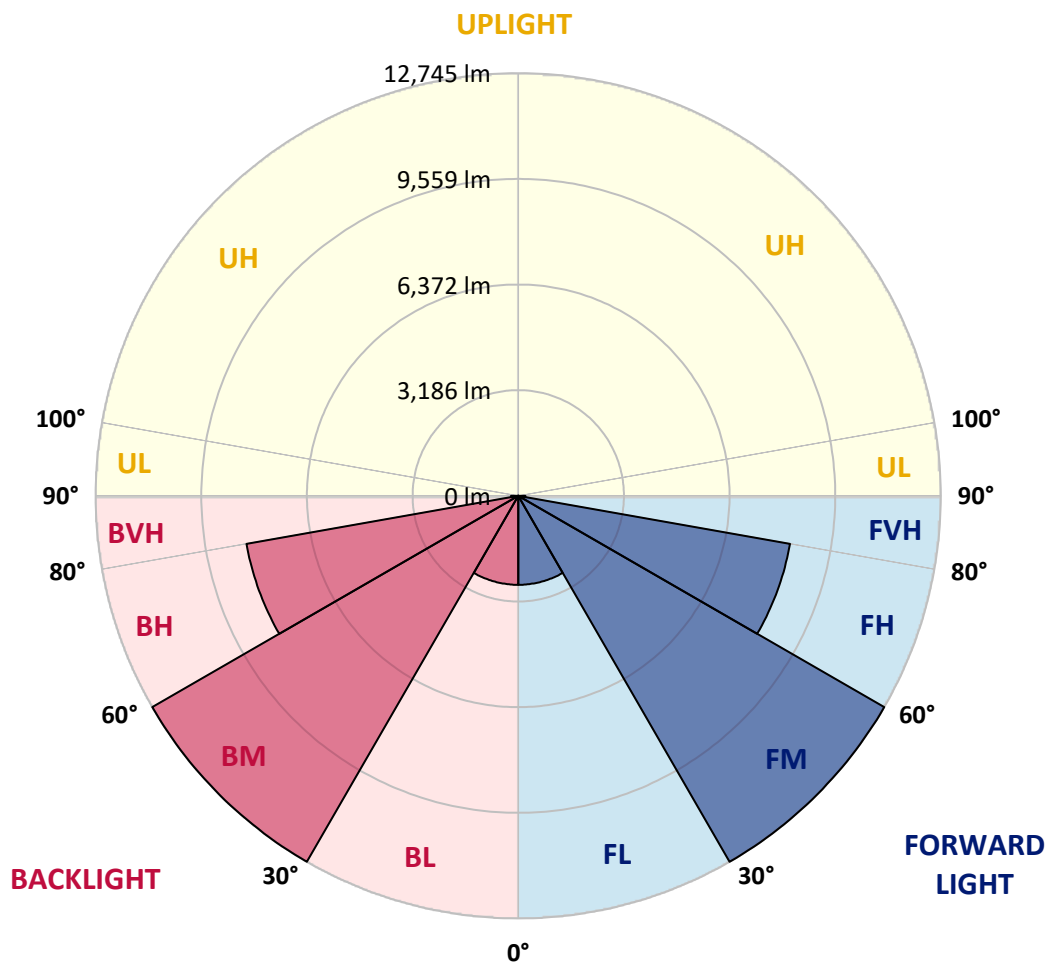
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2683.7	5.6			
FM	(30°-60°)	12744.8	26.6			
FH	(60°-80°)	8322.5	17.4			G4/12000
FVH	(80°-90°)	216.0	0.5			G2/225
BL	(0°-30°)	2683.7	5.6	B4/5000		
BM	(30°-60°)	12744.8	26.6	B5		
BH	(60°-80°)	8322.5	17.4	B5		G5
BVH	(80°-90°)	216.0	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5134.6	5134.6	5134.6	5134.6	5134.6	5134.6	5134.6	5134.6	5134.6	5134.6	5134.6
2.5°	5134.6	5129.7	5134.6	5139.5	5137.1	5137.1	5149.3	5156.7	5171.3	5168.9	5166.4
5°	5100.3	5097.9	5117.5	5139.5	5156.7	5186.0	5222.7	5249.6	5283.9	5291.3	5291.3
7.5°	5083.2	5075.9	5110.1	5149.3	5203.1	5276.6	5347.5	5420.9	5479.6	5499.2	5504.1
10°	5095.5	5097.9	5144.4	5217.9	5303.5	5406.3	5506.6	5631.5	5714.7	5734.3	5753.8
12.5°	5151.8	5146.8	5225.1	5342.6	5460.1	5589.8	5707.3	5844.3	5934.9	5981.4	6001.0
15°	5254.6	5244.7	5354.9	5528.6	5699.9	5851.7	5947.2	6076.8	6182.1	6240.8	6262.9
17.5°	5376.8	5381.8	5526.2	5751.4	5976.5	6147.8	6238.4	6304.5	6385.2	6436.6	6461.1
20°	5592.3	5602.0	5763.6	6030.4	6287.3	6483.1	6556.5	6532.0	6554.1	6593.2	6622.6
22.5°	5881.0	5886.0	6067.1	6355.8	6625.1	6840.4	6889.3	6789.0	6727.9	6754.7	6774.3
25°	6216.3	6248.2	6429.3	6725.4	7002.0	7207.5	7229.5	7077.8	6926.1	6933.4	6945.7
27.5°	6625.1	6654.4	6838.0	7131.6	7413.1	7591.8	7589.3	7386.2	7163.5	7107.1	7124.4
30°	7068.0	7099.9	7288.3	7591.8	7853.7	8010.3	7976.0	7733.7	7415.6	7310.3	7322.6
32.5°	7594.2	7613.8	7804.7	8108.2	8350.5	8475.3	8404.3	8105.7	7709.2	7589.3	7618.7
35°	8230.5	8259.9	8401.8	8688.2	8901.1	9003.9	8884.0	8531.6	8086.1	7951.5	7971.1
37.5°	8957.4	8937.8	9099.3	9353.8	9530.1	9593.7	9429.8	9011.3	8516.9	8357.8	8387.2
40°	9716.1	9706.3	9882.5	10127.3	10222.7	10261.9	10019.6	9561.9	9013.7	8842.4	8898.6
42.5°	10403.9	10396.5	10633.9	10905.5	11020.6	10976.5	10670.6	10146.9	9588.9	9393.0	9442.0
45°	10954.5	10944.6	11235.9	11617.8	11842.8	11769.5	11358.3	10792.9	10171.3	9968.2	10014.7
47.5°	11377.9	11382.7	11696.1	12168.4	12562.4	12589.4	12060.7	11451.3	10812.5	10582.5	10651.0
50°	11683.8	11698.4	12033.8	12557.5	13095.9	13333.3	12777.8	12126.8	11475.8	11216.4	11294.7
52.5°	11759.6	11786.6	12190.4	12804.7	13438.6	13891.3	13507.0	12775.3	12104.7	11857.5	11921.2
55°	11355.9	11409.7	11921.2	12785.1	13649.0	14258.5	14148.3	13433.6	12738.6	12484.1	12555.0
57.5°	10428.2	10504.2	11101.4	12229.6	13602.6	14510.5	14645.1	14065.0	13372.5	13127.8	13184.1
60°	9128.8	9219.3	9791.9	11023.0	12946.7	14603.5	14995.1	14679.4	13955.0	13717.6	13768.9
62.5°	7168.3	7285.8	7971.1	9415.0	11561.4	14170.3	15293.7	15235.0	14478.7	14182.5	14216.9
65°	4598.7	4723.4	5445.4	7151.2	9713.6	12843.9	15386.7	15775.8	15031.8	14618.2	14669.6
67.5°	2772.9	2829.2	3186.5	4334.3	7099.9	10844.3	14598.7	16375.4	15677.9	15164.0	15203.1
70°	1774.4	1806.2	2019.0	2545.3	4013.7	7912.4	12645.6	16488.0	16461.1	15724.4	15719.5
72.5°	1204.1	1213.9	1270.2	1507.6	2271.2	4495.9	9327.0	14926.6	16950.5	16446.4	16368.1
75°	881.1	934.9	1025.4	1067.0	1289.8	2246.7	5345.1	10487.0	14285.3	14505.6	13972.1
77.5°	655.9	658.4	783.2	832.1	920.2	1196.8	2261.4	5854.1	8869.3	9312.3	8306.4
80°	555.6	526.2	523.8	670.6	692.6	746.4	1010.8	2021.5	3176.7	1926.1	1456.2
82.5°	462.6	430.7	389.1	523.8	472.3	457.7	438.1	822.4	1010.8	496.8	423.4
85°	323.1	308.3	293.7	342.7	269.2	230.0	210.4	384.3	425.9	210.4	186.0
87.5°	139.5	144.4	146.9	151.7	112.5	80.8	80.8	107.7	107.7	83.2	61.2
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)