

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: P967190

Luminaire Tested: **NAV-SB4D-735-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967190
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-SB4D-735-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43046.9 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

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



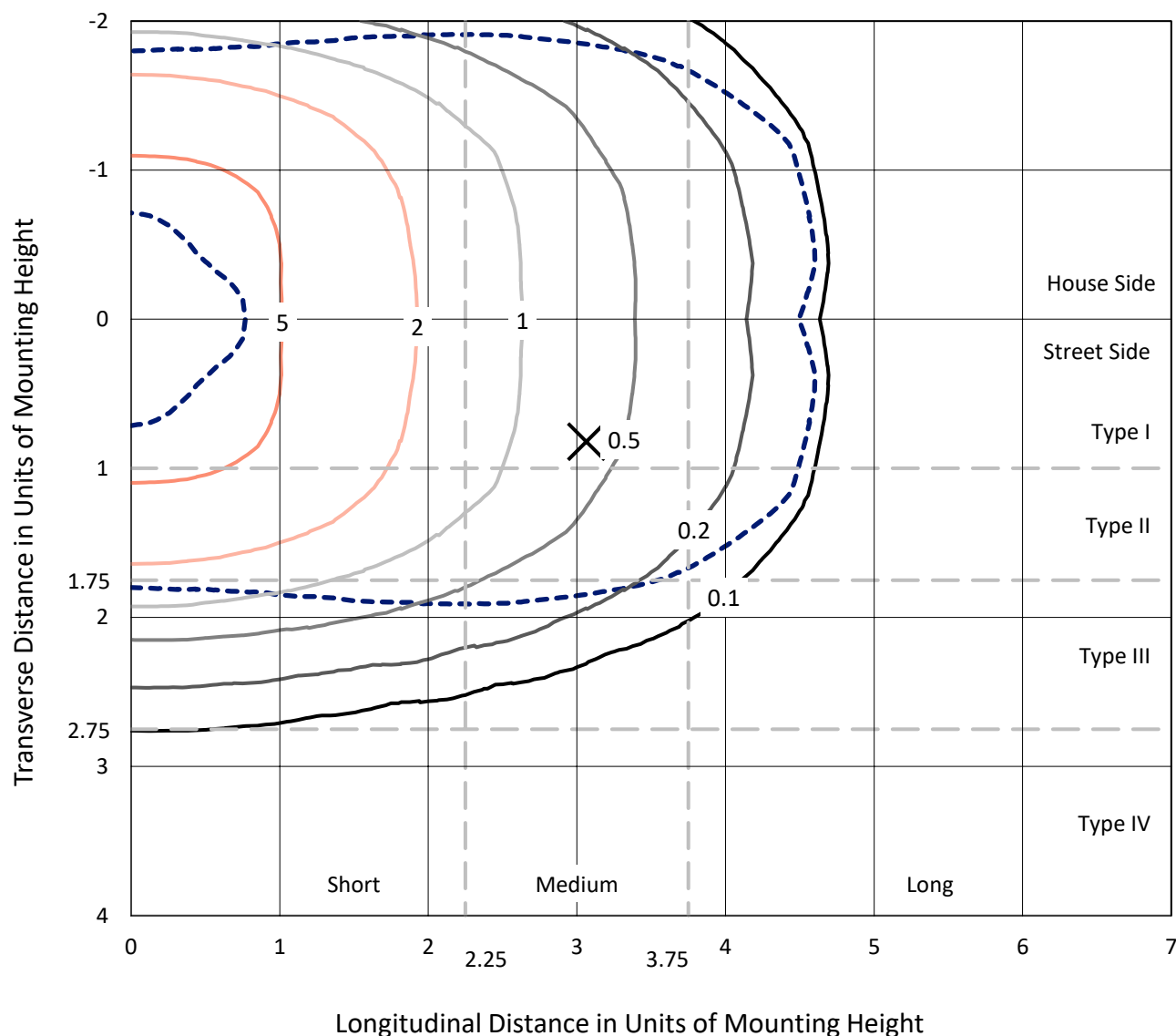
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

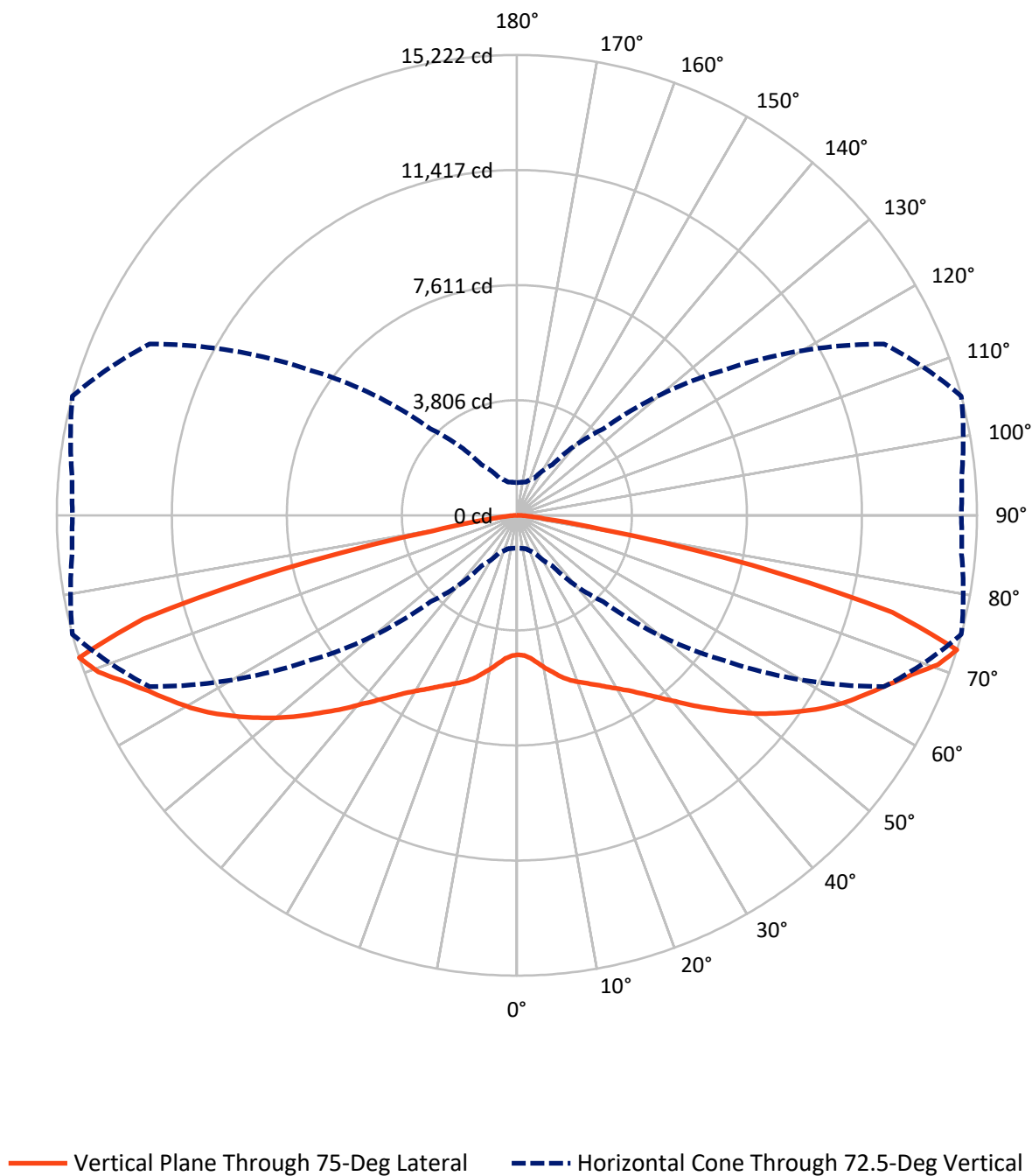
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	21523.5	0.0	21523.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21523.5	0.0	21523.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	43046.9	0.0	43046.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.7	1.0
10°-20°	1489.8	3.5
20°-30°	2878.7	6.7
30°-40°	4860.9	11.3
40°-50°	7708.8	17.9
50°-60°	10321.2	24.0
60°-70°	9822.4	22.8
70°-80°	5125.5	11.9
80°-90°	388.0	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°	43046.9	100.0
0°-180°	43046.9	100.0

Coefficient of Utilization



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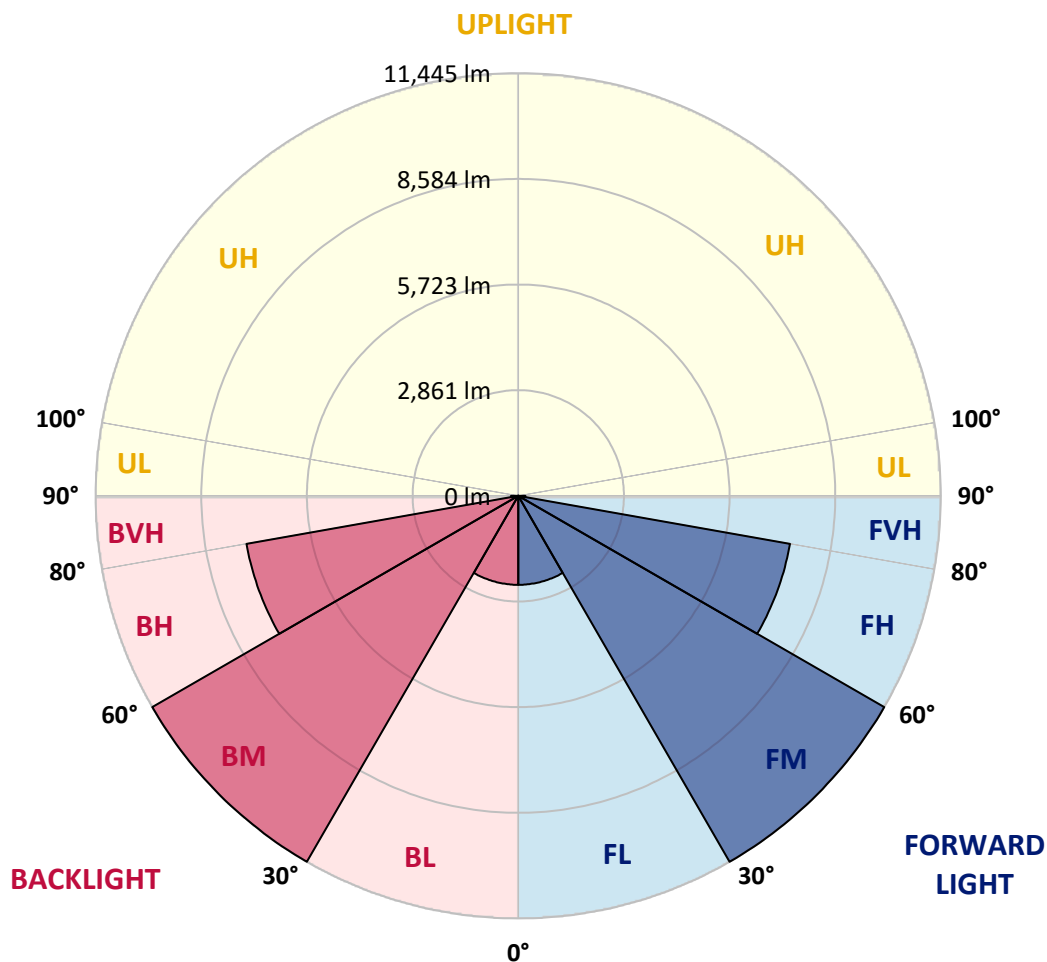
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2410.1	5.6			
FM	(30°-60°)	11445.4	26.6			
FH	(60°-80°)	7474.0	17.4			G3/7500
FVH	(80°-90°)	194.0	0.5			G2/225
BL	(0°-30°)	2410.1	5.6	B3/2500		
BM	(30°-60°)	11445.4	26.6	B5		
BH	(60°-80°)	7474.0	17.4	B5		G5
BVH	(80°-90°)	194.0	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°	4611.1	4611.1	4611.1	4611.1	4611.1	4611.1	4611.1	4611.1	4611.1	4611.1	4611.1
2.5°	4611.1	4606.7	4611.1	4615.5	4613.3	4613.3	4624.3	4630.8	4644.1	4641.8	4639.7
5°	4580.3	4578.2	4595.7	4615.5	4630.8	4657.3	4690.2	4714.4	4745.1	4751.8	4751.8
7.5°	4564.9	4558.4	4589.1	4624.3	4672.7	4738.6	4802.3	4868.2	4921.0	4938.6	4943.0
10°	4575.9	4578.2	4619.9	4685.8	4762.8	4855.0	4945.2	5057.2	5132.0	5149.6	5167.1
12.5°	4626.4	4622.1	4692.4	4797.9	4903.4	5019.9	5125.4	5248.5	5329.8	5371.5	5389.1
15°	4718.8	4710.0	4808.9	4965.0	5118.8	5255.1	5340.8	5457.3	5551.8	5604.5	5624.3
17.5°	4828.7	4833.1	4962.7	5165.0	5367.2	5521.0	5602.3	5661.7	5734.2	5780.4	5802.3
20°	5022.1	5030.9	5175.9	5415.5	5646.3	5822.1	5888.0	5866.1	5885.9	5921.0	5947.4
22.5°	5281.4	5285.8	5448.5	5707.8	5949.6	6143.0	6187.0	6096.8	6041.9	6066.1	6083.7
25°	5582.6	5611.2	5773.7	6039.7	6288.1	6472.7	6492.5	6356.2	6219.9	6226.6	6237.5
27.5°	5949.6	5976.0	6140.8	6404.5	6657.3	6817.8	6815.5	6633.1	6433.1	6382.6	6397.9
30°	6347.4	6376.0	6545.2	6817.8	7052.9	7193.6	7162.8	6945.2	6659.5	6565.0	6576.0
32.5°	6819.9	6837.6	7009.0	7281.5	7499.1	7611.1	7547.4	7279.2	6923.3	6815.5	6841.9
35°	7391.4	7417.7	7545.2	7802.4	7993.6	8085.9	7978.2	7661.7	7261.7	7140.9	7158.4
37.5°	8044.1	8026.6	8171.6	8400.2	8558.4	8615.5	8468.3	8092.5	7648.6	7505.7	7532.0
40°	8725.5	8716.7	8875.0	9094.7	9180.4	9215.6	8998.0	8587.0	8094.7	7940.9	7991.4
42.5°	9343.1	9336.5	9549.7	9793.7	9896.9	9857.3	9582.6	9112.2	8611.2	8435.3	8479.3
45°	9837.6	9828.8	10090.3	10433.2	10635.4	10569.5	10200.3	9692.5	9134.3	8951.8	8993.7
47.5°	10217.8	10222.2	10503.6	10927.7	11281.6	11305.7	10831.0	10283.7	9710.1	9503.5	9565.1
50°	10492.5	10505.7	10806.9	11277.2	11760.7	11973.9	11475.0	10890.3	10305.8	10072.8	10143.1
52.5°	10560.7	10584.9	10947.5	11499.2	12068.5	12475.0	12130.0	11472.8	10870.5	10648.6	10705.7
55°	10198.0	10246.4	10705.7	11481.5	12257.5	12804.7	12705.8	12064.0	11439.8	11211.2	11275.0
57.5°	9365.0	9433.2	9969.5	10982.7	12215.6	13031.0	13152.0	12631.1	12009.1	11789.2	11839.9
60°	8197.9	8279.3	8793.6	9899.1	11626.7	13114.6	13466.2	13182.7	12532.2	12319.0	12365.1
62.5°	6437.5	6543.0	7158.4	8455.1	10382.6	12725.6	13734.4	13681.6	13002.5	12736.5	12767.3
65°	4129.7	4241.9	4890.2	6422.1	8723.3	11534.3	13817.9	14167.3	13499.2	13127.8	13173.9
67.5°	2490.1	2540.7	2861.6	3892.4	6376.0	9738.7	13110.2	14705.9	14079.4	13617.9	13653.1
70°	1593.5	1622.1	1813.2	2285.8	3604.5	7105.7	11356.3	14806.9	14782.8	14121.2	14116.8
72.5°	1081.4	1090.1	1140.7	1353.9	2039.6	4037.5	8376.0	13404.7	15222.4	14769.5	14699.2
75°	791.2	839.6	920.9	958.3	1158.2	2017.6	4800.1	9417.8	12828.9	13026.7	12547.5
77.5°	589.1	591.2	703.4	747.2	826.4	1074.7	2030.8	5257.2	7965.1	8362.9	7459.5
80°	498.9	472.5	470.4	602.2	622.0	670.3	907.7	1815.4	2852.8	1729.7	1307.7
82.5°	415.4	386.8	349.4	470.4	424.1	411.0	393.4	738.5	907.7	446.2	380.3
85°	290.1	277.0	263.7	307.7	241.8	206.6	189.0	345.0	382.4	189.0	167.1
87.5°	125.3	129.7	131.9	136.2	101.1	72.6	72.6	96.7	96.7	74.7	54.9
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)