

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: P967201

Luminaire Tested: **NAV-SB4D-735-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967201
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4D-735-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41354.7 lumens
Efficiency: N/A
Efficacy: 140.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

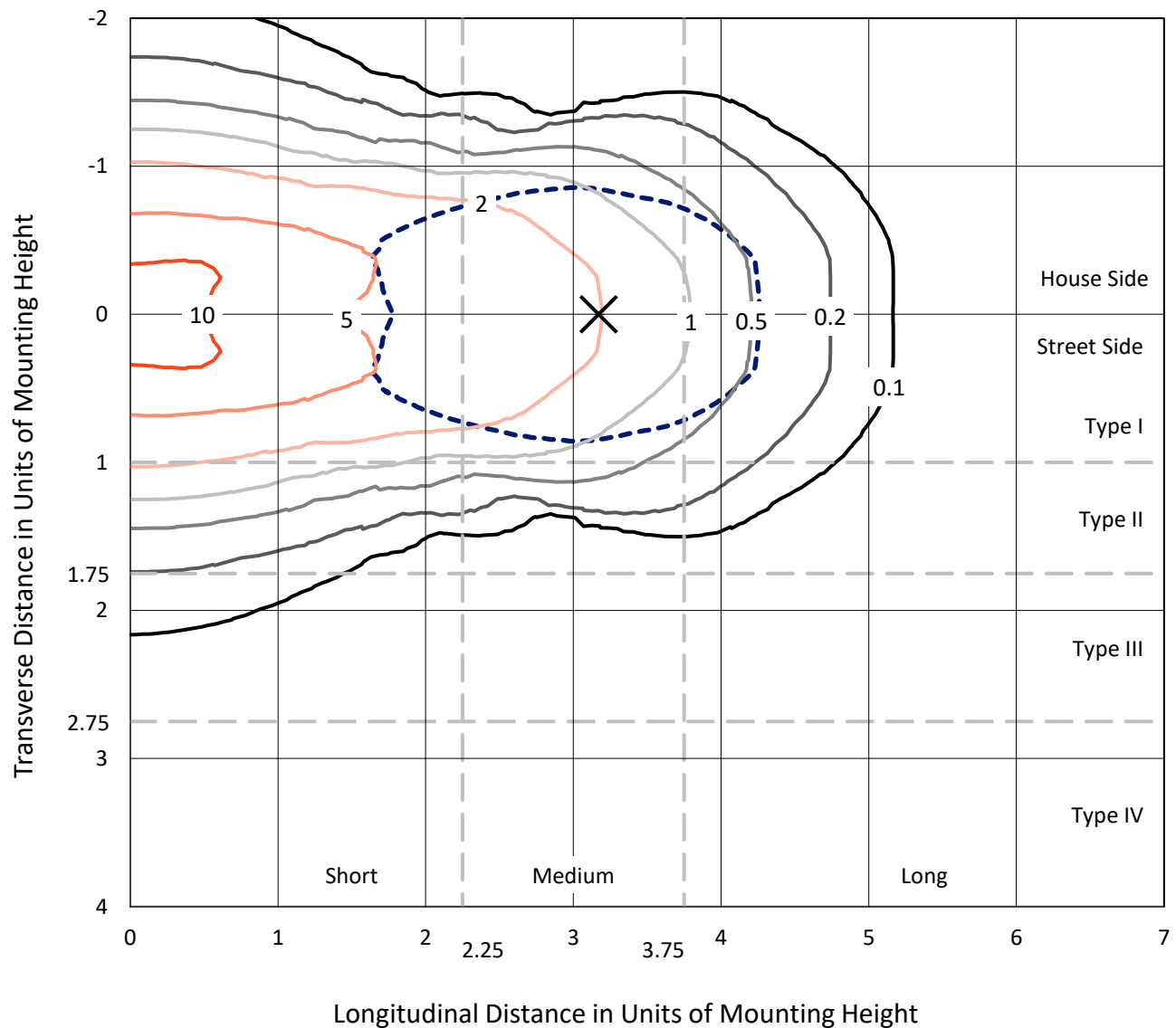
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

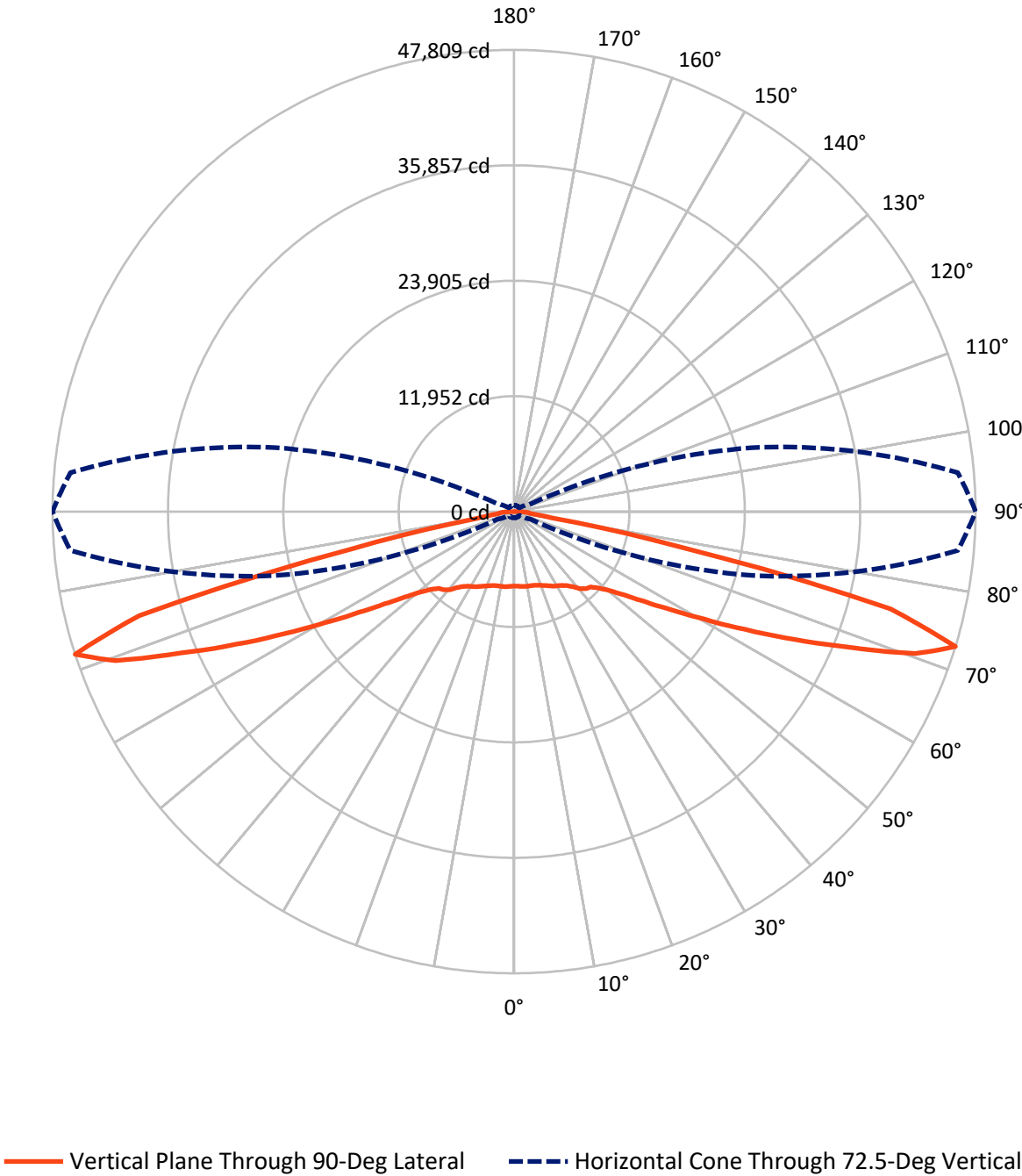
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20677.3	0.0	20677.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20677.3	0.0	20677.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	41354.7	0.0	41354.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	749.3	1.8
10°-20°	2291.0	5.5
20°-30°	3820.0	9.2
30°-40°	5253.7	12.7
40°-50°	6416.2	15.5
50°-60°	7421.1	17.9
60°-70°	8848.4	21.4
70°-80°	6175.6	14.9
80°-90°	379.3	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°	41354.7	100.0
0°-180°	41354.7	100.0

Coefficient of Utilization



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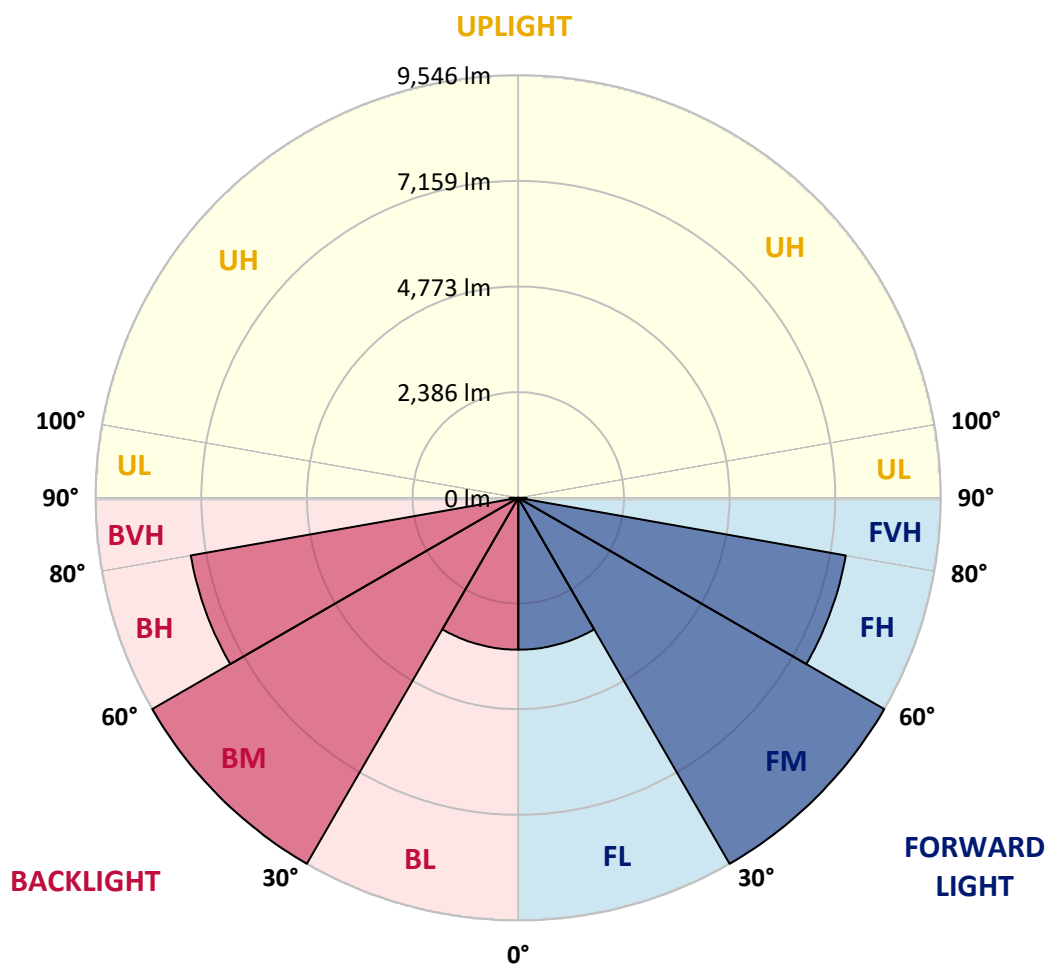
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3430.2	8.3			
FM	(30°-60°)	9545.5	23.1			
FH	(60°-80°)	7512.0	18.2			G4/12000
FVH	(80°-90°)	189.7	0.5			G2/225
BL	(0°-30°)	3430.2	8.3	B4/5000		
BM	(30°-60°)	9545.5	23.1	B5		
BH	(60°-80°)	7512.0	18.2	B5		G5
BVH	(80°-90°)	189.7	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 I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7727.6	7727.6	7727.6	7727.6	7727.6	7727.6	7727.6	7727.6	7727.6	7727.6	7727.6
2.5°	7734.1	7743.0	7743.0	7736.4	7751.8	7738.5	7738.5	7732.0	7738.5	7732.0	7732.0
5°	7773.7	7784.7	7789.1	7786.9	7806.7	7795.6	7795.6	7786.9	7789.1	7782.5	7782.5
7.5°	7848.4	7863.8	7872.6	7883.6	7912.2	7899.0	7890.1	7863.8	7852.8	7835.2	7835.2
10°	7872.6	7890.1	7918.7	7975.9	8041.8	8044.0	8017.7	7951.7	7901.2	7861.6	7855.0
12.5°	7797.9	7822.1	7881.4	7997.9	8145.2	8204.5	8162.7	8052.8	7953.9	7883.6	7872.6
15°	7703.4	7729.7	7819.8	7995.7	8213.2	8351.7	8347.3	8202.3	8044.0	7934.1	7916.6
17.5°	7556.1	7582.5	7712.2	7958.3	8266.0	8494.6	8556.1	8406.6	8184.7	8037.4	8013.2
20°	7290.2	7314.4	7494.6	7839.6	8283.6	8646.3	8806.7	8674.8	8397.9	8197.8	8160.5
22.5°	6945.1	6982.5	7193.4	7635.2	8241.8	8804.4	9092.4	9002.3	8646.3	8369.3	8318.8
25°	6575.9	6615.5	6861.7	7384.7	8134.2	8918.7	9430.8	9373.7	8927.5	8582.5	8512.2
27.5°	6257.2	6298.9	6567.1	7136.4	7967.1	8962.7	9765.0	9793.5	9268.3	8817.7	8742.9
30°	6006.7	6046.2	6331.9	6936.4	7751.8	8918.7	10057.2	10255.0	9615.5	9022.0	8914.4
32.5°	5731.9	5782.4	6083.6	6692.3	7496.7	8813.3	10312.2	10754.0	10017.7	9241.8	9105.6
35°	5384.6	5430.9	5747.3	6358.3	7162.7	8644.0	10525.4	11307.8	10593.5	9576.0	9424.3
37.5°	4962.6	5006.6	5321.0	5940.7	6830.8	8406.6	10688.0	11932.0	11279.2	10057.2	9855.1
40°	4538.5	4580.3	4874.8	5474.8	6433.0	8103.3	10745.2	12543.0	12066.1	10718.8	10503.4
42.5°	4149.5	4186.8	4457.2	5015.4	5986.9	7716.6	10670.5	13074.9	12771.6	11180.3	10903.4
45°	3791.3	3824.2	4063.8	4584.6	5523.1	7246.2	10446.3	13646.3	13611.2	11510.0	11136.4
47.5°	3382.5	3415.4	3663.8	4167.0	5059.4	6694.6	10066.0	14209.0	14778.1	12257.3	11826.4
50°	2883.5	2912.1	3167.0	3685.8	4578.1	6107.8	9538.5	14650.7	16250.8	13389.2	12848.5
52.5°	2292.3	2323.1	2571.4	3090.2	4006.6	5477.0	8844.0	14938.7	17951.8	15041.9	14375.9
55°	1705.5	1727.5	1942.9	2408.9	3299.0	4758.3	7973.7	15019.9	19881.5	17301.3	16468.3
57.5°	1237.4	1250.6	1389.0	1736.2	2501.1	3859.3	6916.6	14809.0	22178.2	20198.0	19149.7
60°	1002.2	1006.7	1048.4	1202.2	1738.5	2844.0	5639.7	14083.7	24670.6	23932.1	22611.2
62.5°	909.9	909.9	920.9	962.7	1175.9	1877.0	4094.6	12580.3	27343.1	28650.8	26881.5
65°	846.1	846.1	850.5	870.3	927.5	1195.7	2584.6	10132.0	29596.0	34178.4	31940.9
67.5°	789.0	791.2	789.0	795.6	828.6	883.6	1499.0	6997.9	30809.1	39905.9	37490.5
70°	729.7	734.1	723.0	723.0	749.5	751.6	938.5	3837.4	29802.5	44706.0	44070.8
72.5°	659.4	665.9	648.3	644.0	663.8	655.0	705.5	1841.8	25587.1	46138.9	47809.3
75°	597.8	606.6	567.0	556.1	556.1	549.5	573.6	945.0	16606.7	37637.8	40257.6
77.5°	542.8	560.5	496.7	461.6	452.7	433.0	468.1	578.0	7263.8	17670.5	17303.4
80°	448.3	472.5	408.8	367.1	351.7	329.6	369.2	404.4	2160.5	4103.4	3929.7
82.5°	334.0	345.0	290.1	261.6	248.4	233.0	277.0	281.4	703.4	1452.7	1641.7
85°	213.2	217.6	178.0	153.9	147.3	140.6	175.8	153.9	268.1	1068.2	1551.6
87.5°	74.7	85.7	68.2	61.5	65.9	54.9	81.3	46.1	74.7	753.9	934.1
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)