

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: P884435

Luminaire Tested: **NAV-SB5B-730-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884435
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5B-730-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27826 lumens
Efficiency: N/A
Efficacy: 152.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

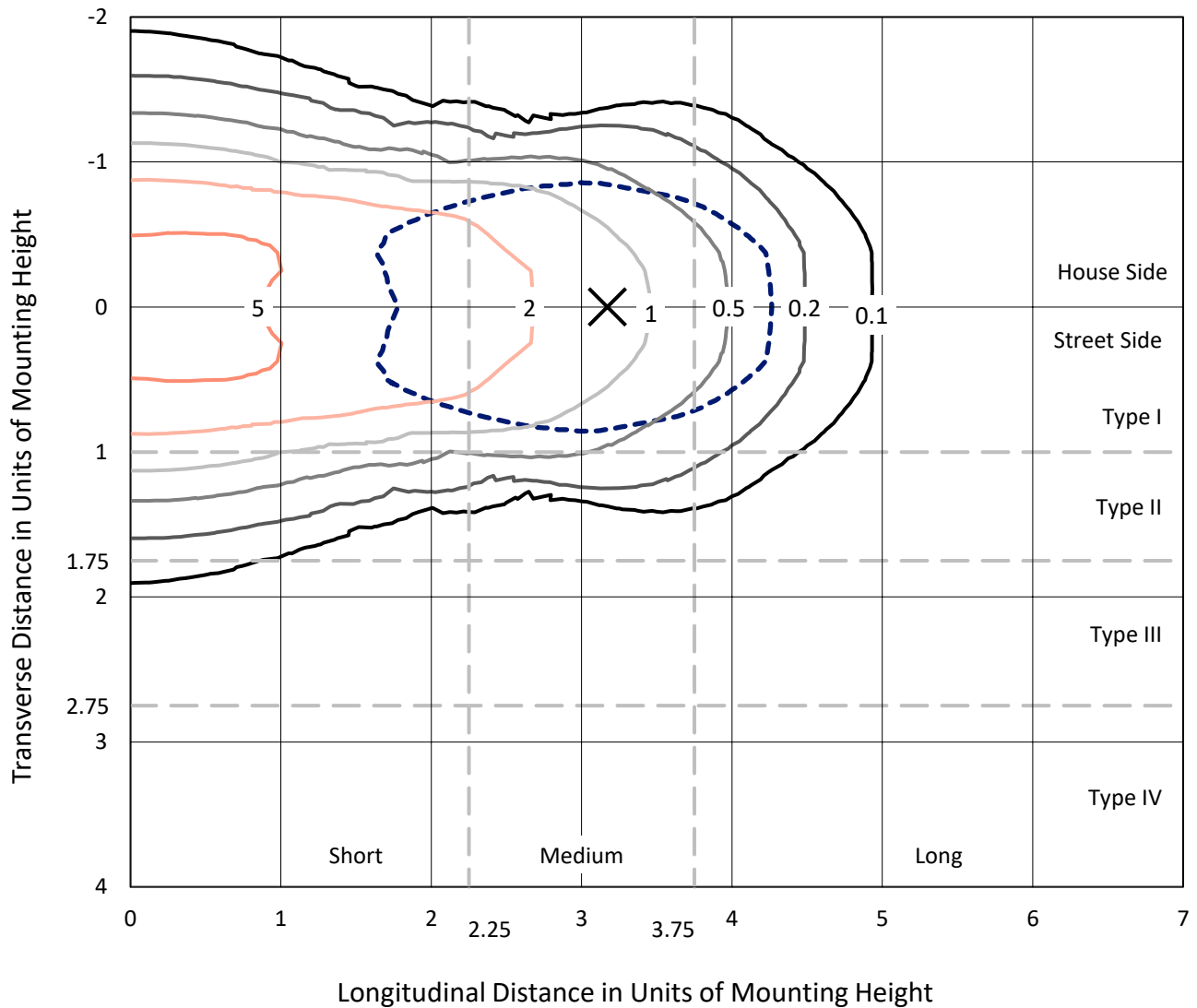
Input Watts (W): 182.7
Input Voltage (V): 120.0
Input Current (Ain): 1.547
Voltage Rise (V): NR
Power Factor: 0.992
Total Harmonic Distortion (THDi): 11.125
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

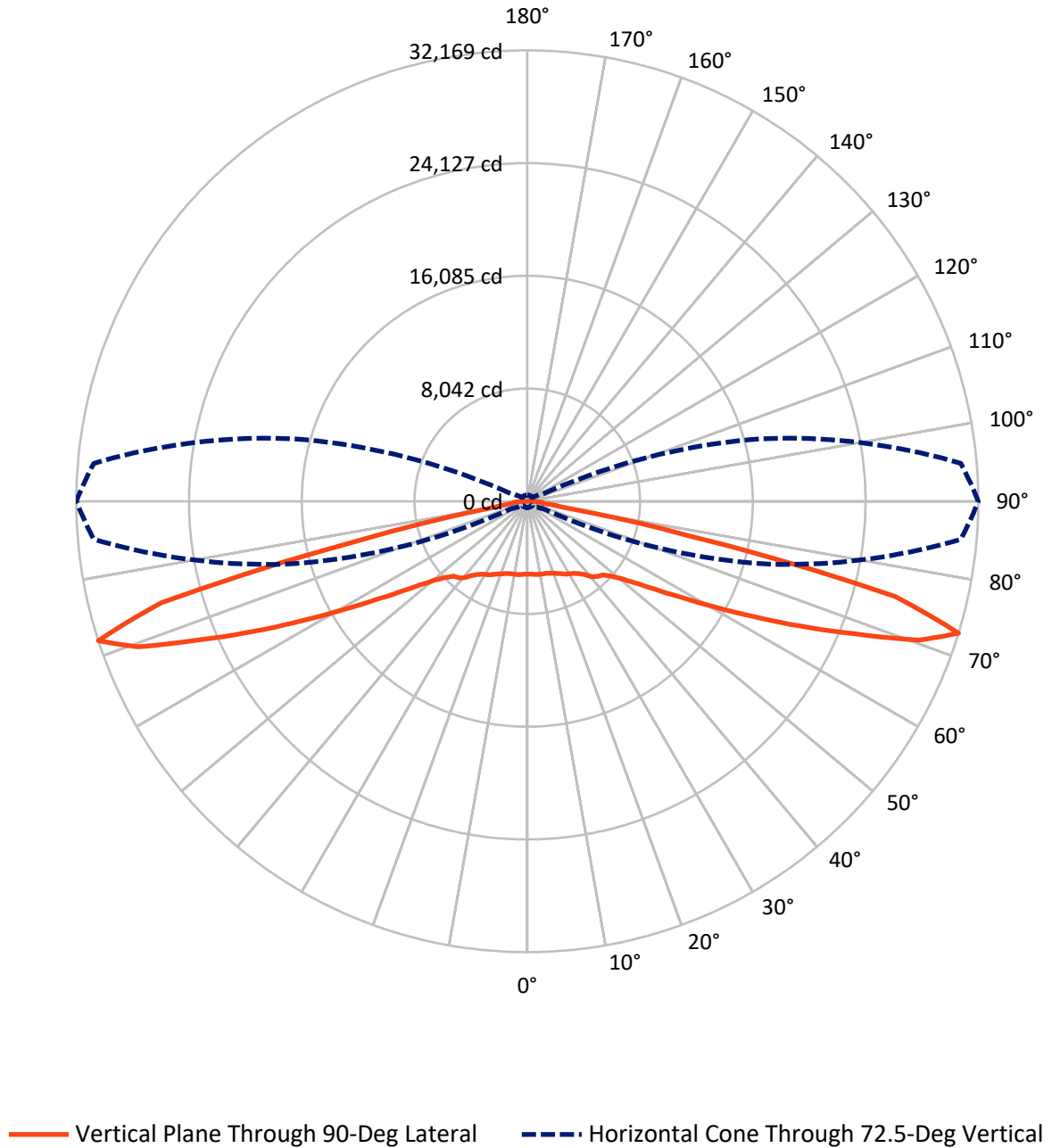
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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	13913.0	0.0	13913.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13913.0	0.0	13913.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	27826.0	0.0	27826.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.2	1.8
10°-20°	1541.5	5.5
20°-30°	2570.4	9.2
30°-40°	3535.0	12.7
40°-50°	4317.3	15.5
50°-60°	4993.4	17.9
60°-70°	5953.8	21.4
70°-80°	4155.3	14.9
80°-90°	255.2	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°	27826.0	100.0
0°-180°	27826.0	100.0



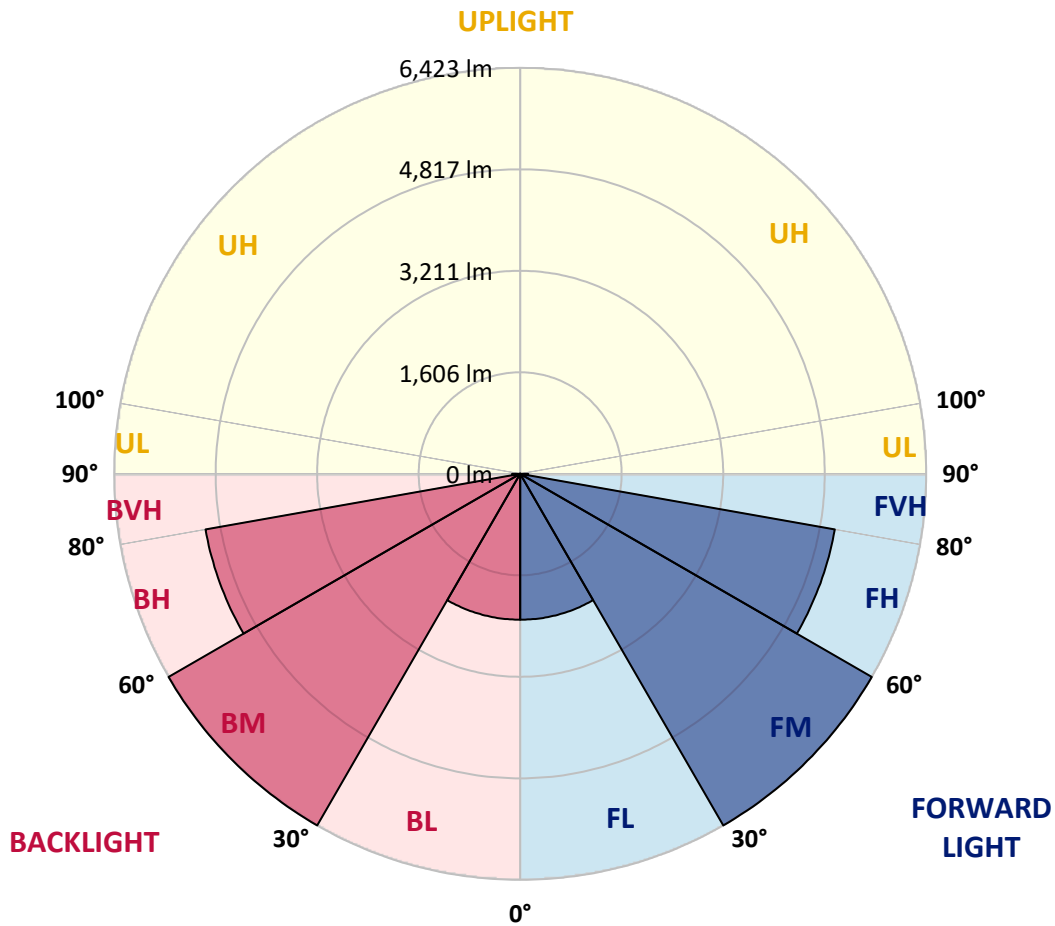
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2308.0	8.3			
FM (30°-60°)	6422.8	23.1			
FH (60°-80°)	5054.5	18.2			G3/7500
FVH (80°-90°)	127.6	0.5			G2/225
BL (0°-30°)	2308.0	8.3	B3/2500		
BM (30°-60°)	6422.8	23.1	B4/8500		
BH (60°-80°)	5054.5	18.2	B5		G5
BVH (80°-90°)	127.6	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°	5199.6	5199.6	5199.6	5199.6	5199.6	5199.6	5199.6	5199.6	5199.6	5199.6	5199.6
2.5°	5204.0	5209.9	5209.9	5205.5	5215.8	5207.0	5207.0	5202.5	5207.0	5202.5	5202.5
5°	5230.6	5238.0	5241.0	5239.5	5252.8	5245.4	5245.4	5239.5	5241.0	5236.6	5236.6
7.5°	5280.9	5291.3	5297.2	5304.6	5323.8	5314.9	5309.0	5291.3	5283.9	5272.0	5272.0
10°	5297.2	5309.0	5328.2	5366.7	5411.1	5412.5	5394.8	5350.4	5316.4	5289.8	5285.4
12.5°	5246.9	5263.2	5303.1	5381.5	5480.6	5520.5	5492.4	5418.4	5351.9	5304.6	5297.2
15°	5183.3	5201.1	5261.7	5380.0	5526.4	5619.6	5616.6	5519.0	5412.5	5338.6	5326.8
17.5°	5084.2	5102.0	5189.2	5354.9	5561.9	5715.7	5757.1	5656.5	5507.2	5408.1	5391.8
20°	4905.3	4921.6	5042.8	5275.0	5573.7	5817.7	5925.7	5837.0	5650.6	5516.1	5490.9
22.5°	4673.1	4698.3	4840.2	5137.5	5545.6	5924.2	6117.9	6057.3	5817.7	5631.4	5597.4
25°	4424.7	4451.3	4616.9	4968.9	5473.2	6001.1	6345.7	6307.2	6007.0	5774.8	5727.5
27.5°	4210.2	4238.3	4418.8	4801.8	5360.8	6030.7	6570.5	6589.7	6236.2	5933.1	5882.8
30°	4041.7	4068.3	4260.5	4667.2	5215.8	6001.1	6767.1	6900.2	6469.9	6070.6	5998.2
32.5°	3856.8	3890.8	4093.4	4503.1	5044.3	5930.1	6938.7	7235.9	6740.5	6218.5	6126.8
35°	3623.1	3654.2	3867.2	4278.3	4819.5	5816.3	7082.1	7608.6	7128.0	6443.3	6341.2
37.5°	3339.2	3368.8	3580.3	3997.3	4596.2	5656.5	7191.6	8028.6	7589.4	6767.1	6631.1
40°	3053.8	3081.9	3280.1	3683.8	4328.5	5452.5	7230.0	8439.7	8118.8	7212.3	7067.3
42.5°	2792.0	2817.2	2999.1	3374.7	4028.3	5192.2	7179.7	8797.6	8593.5	7522.8	7336.5
45°	2551.0	2573.2	2734.4	3084.8	3716.3	4875.7	7028.9	9182.1	9158.4	7744.7	7493.3
47.5°	2275.9	2298.1	2465.2	2803.9	3404.3	4504.5	6773.1	9560.7	9943.7	8247.5	7957.6
50°	1940.2	1959.5	2131.0	2480.0	3080.4	4109.7	6418.1	9857.9	10934.5	9009.1	8645.3
52.5°	1542.4	1563.1	1730.2	2079.2	2695.9	3685.3	5950.8	10051.6	12079.1	10121.1	9673.1
55°	1147.6	1162.4	1307.3	1620.8	2219.7	3201.7	5365.2	10106.4	13377.5	11641.4	11080.9
57.5°	832.6	841.5	934.6	1168.3	1682.9	2596.8	4653.9	9964.4	14922.9	13590.5	12885.1
60°	674.3	677.3	705.4	808.9	1169.8	1913.6	3794.7	9476.4	16599.9	16103.0	15214.2
62.5°	612.2	612.2	619.6	647.7	791.2	1262.9	2755.1	8464.8	18398.2	19278.1	18087.6
65°	569.4	569.4	572.3	585.6	624.1	804.5	1739.1	6817.4	19914.0	22997.4	21491.9
67.5°	530.9	532.4	530.9	535.3	557.5	594.5	1008.6	4708.6	20730.3	26851.2	25226.0
70°	491.0	493.9	486.5	486.5	504.3	505.8	631.5	2582.0	20053.0	30081.0	29653.6
72.5°	443.7	448.1	436.3	433.3	446.6	440.7	474.7	1239.3	17216.6	31045.2	32169.1
75°	402.2	408.2	381.5	374.1	374.1	369.7	386.0	635.9	11174.1	25325.0	27087.8
77.5°	365.3	377.1	334.2	310.6	304.6	291.3	315.0	388.9	4887.5	11889.8	11642.9
80°	301.7	317.9	275.1	247.0	236.6	221.8	248.4	272.1	1453.7	2761.0	2644.2
82.5°	224.8	232.2	195.2	176.0	167.1	156.8	186.3	189.3	473.2	977.5	1104.7
85°	143.4	146.4	119.8	103.5	99.1	94.6	118.3	103.5	180.4	718.7	1044.1
87.5°	50.3	57.7	45.8	41.4	44.4	37.0	54.7	31.1	50.3	507.2	628.5
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)