

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: P885135

Luminaire Tested: **NAV-SB6B-740-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885135
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-SB6B-740-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36453 lumens
Efficiency: N/A
Efficacy: 165.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

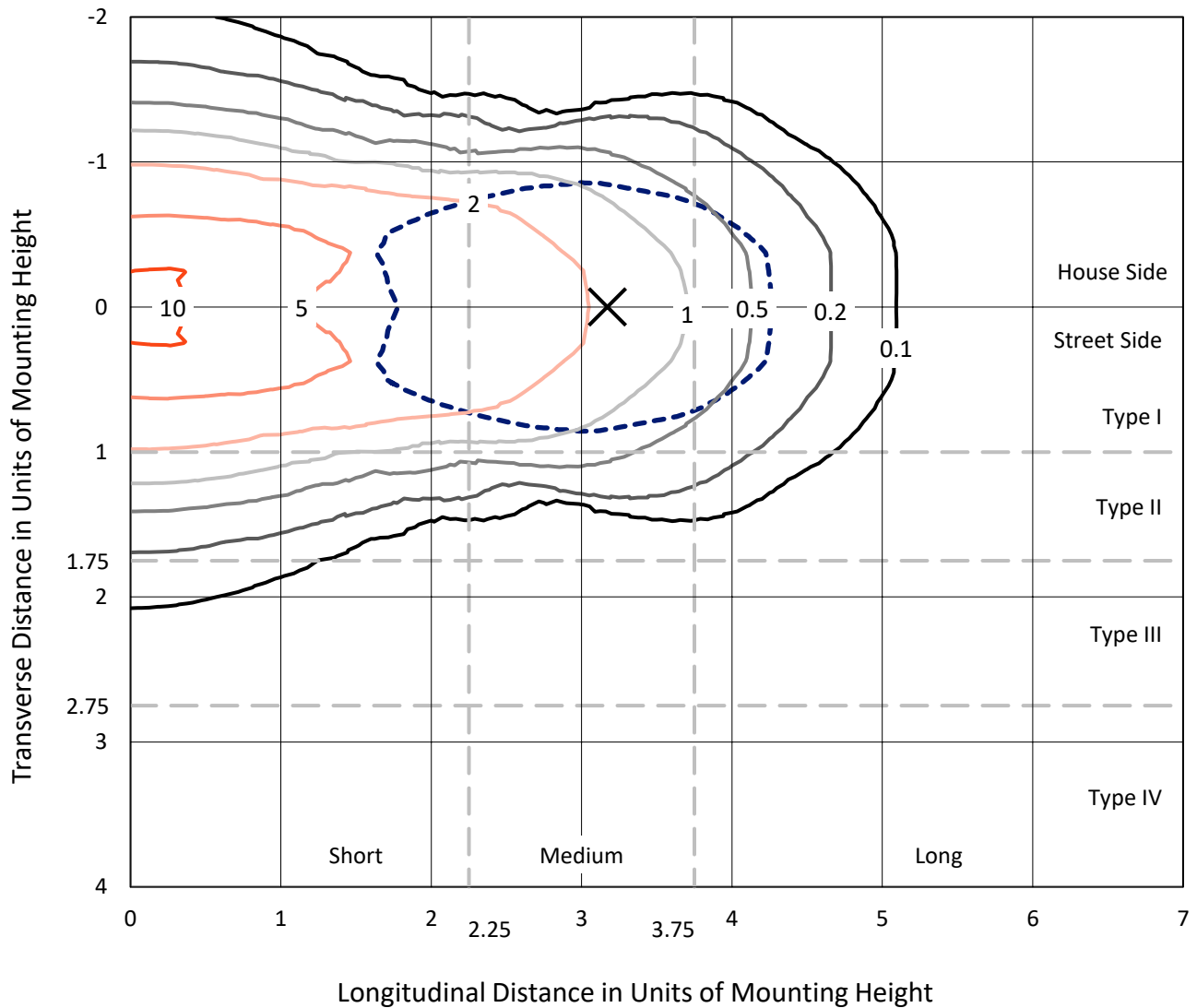
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

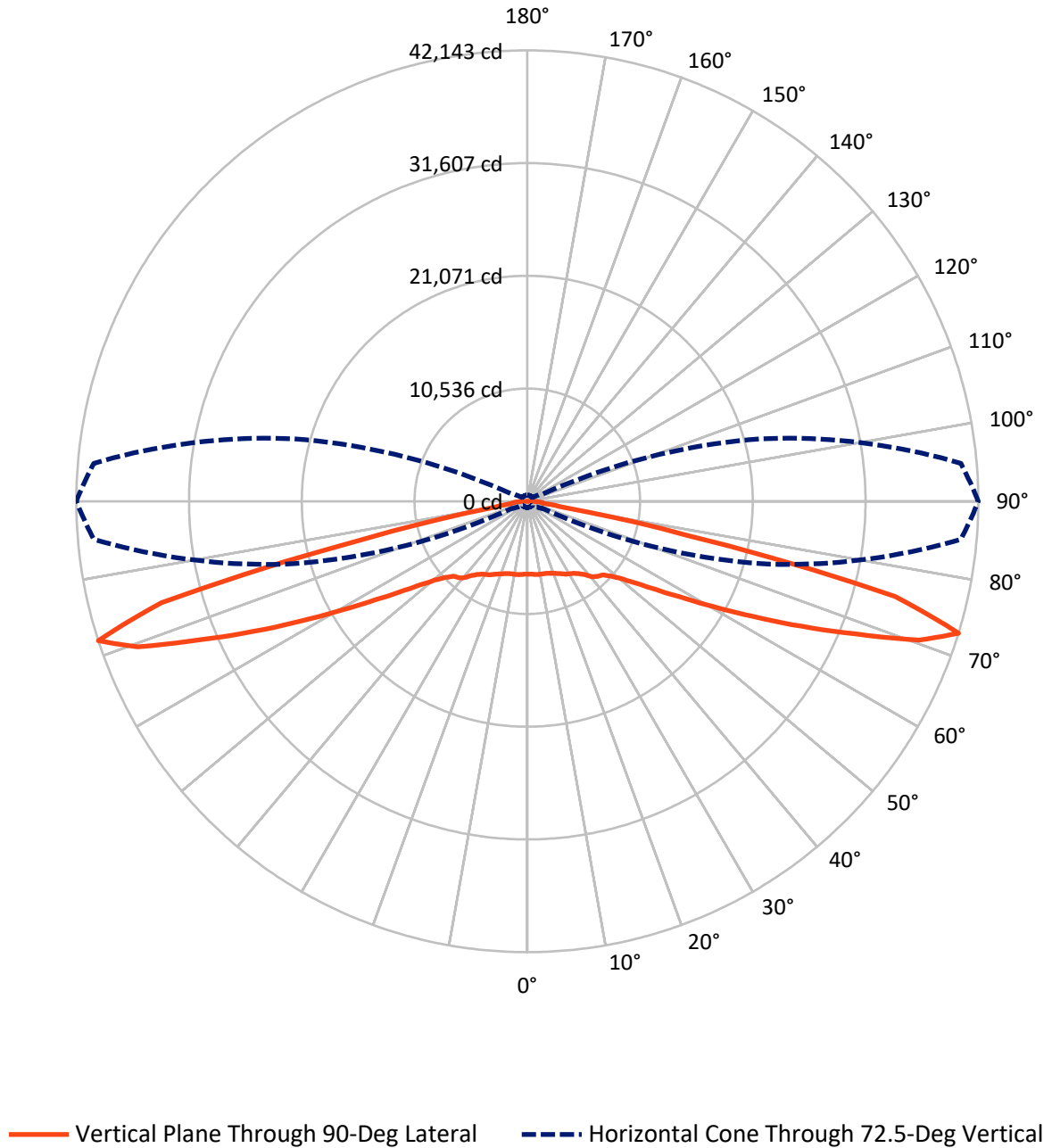
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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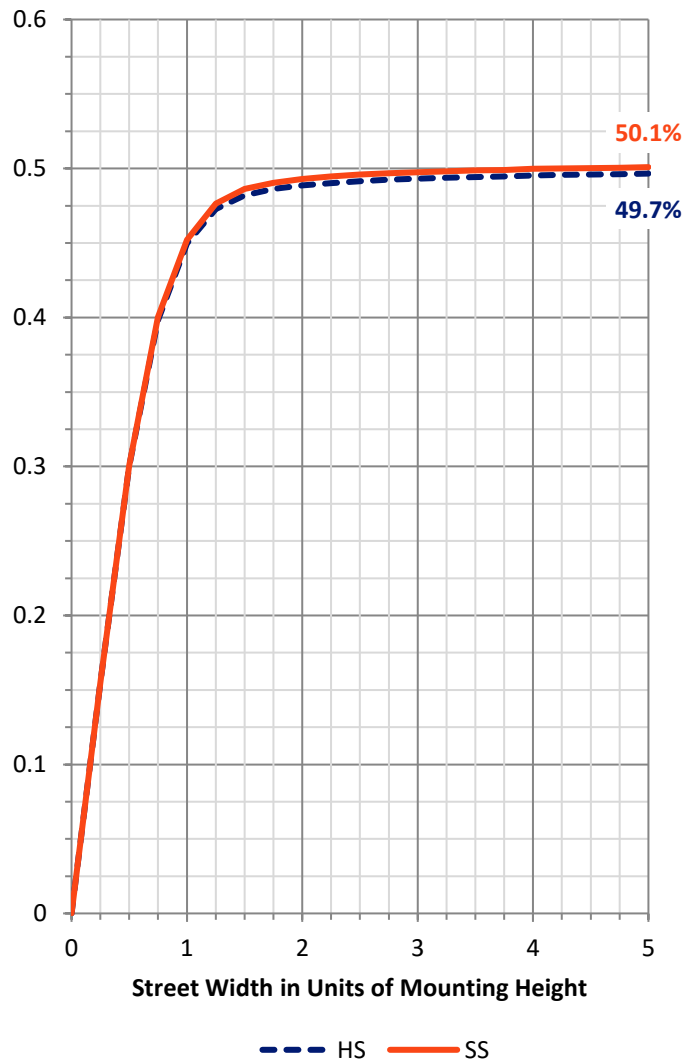
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18226.5	0.0	18226.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18226.5	0.0	18226.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	36453.0	0.0	36453.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	660.5	1.8
10°-20°	2019.5	5.5
20°-30°	3367.3	9.2
30°-40°	4631.0	12.7
40°-50°	5655.7	15.5
50°-60°	6541.5	17.9
60°-70°	7799.6	21.4
70°-80°	5443.6	14.9
80°-90°	334.4	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°	36453.0	100.0
0°-180°	36453.0	100.0

Coefficient of Utilization



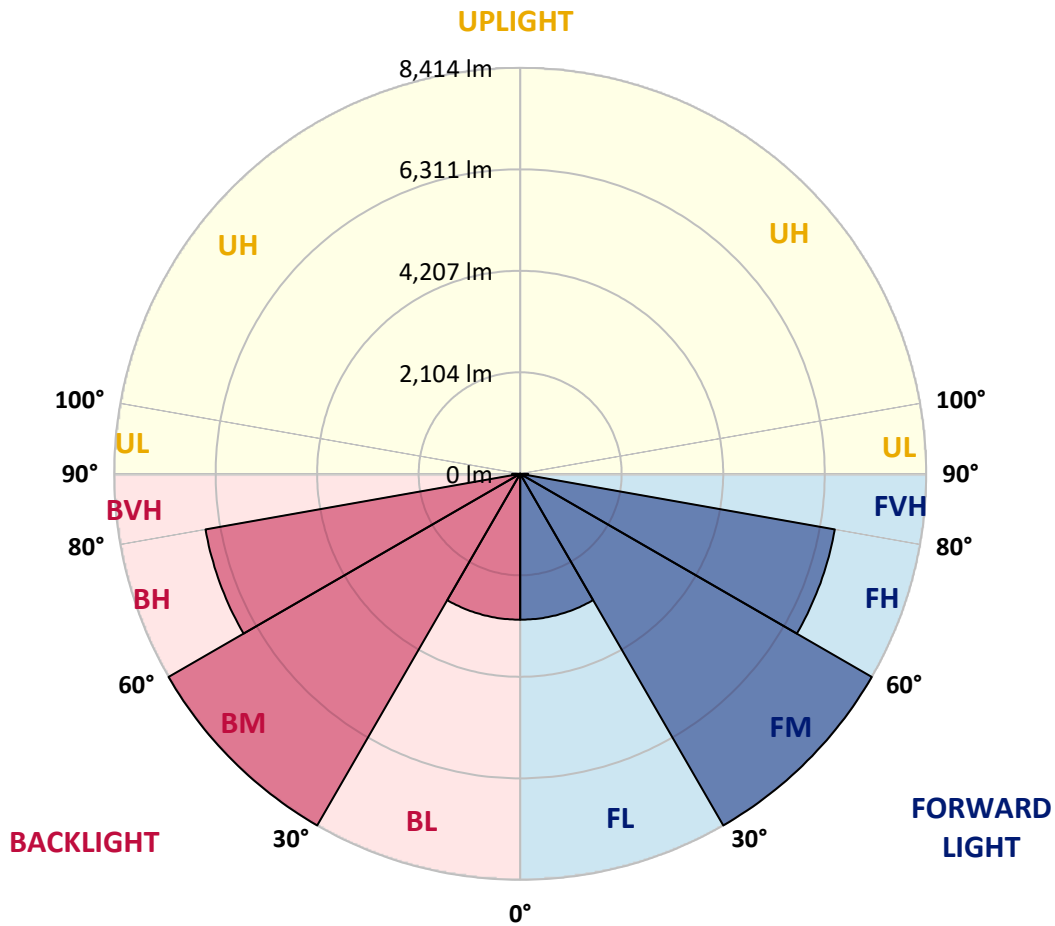
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3023.6	8.3			
FM (30°-60°)	8414.1	23.1			
FH (60°-80°)	6621.6	18.2			G3/7500
FVH (80°-90°)	167.2	0.5			G2/225
BL (0°-30°)	3023.6	8.3	B4/5000		
BM (30°-60°)	8414.1	23.1	B4/8500		
BH (60°-80°)	6621.6	18.2	B5		G5
BVH (80°-90°)	167.2	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°	6811.6	6811.6	6811.6	6811.6	6811.6	6811.6	6811.6	6811.6	6811.6	6811.6	6811.6
2.5°	6817.4	6825.2	6825.2	6819.4	6832.9	6821.3	6821.3	6815.5	6821.3	6815.5	6815.5
5°	6852.3	6862.0	6865.9	6863.9	6881.4	6871.7	6871.7	6863.9	6865.9	6860.1	6860.1
7.5°	6918.2	6931.7	6939.5	6949.2	6974.4	6962.7	6955.0	6931.7	6922.1	6906.6	6906.6
10°	6939.5	6955.0	6980.2	7030.5	7088.7	7090.6	7067.4	7009.2	6964.7	6929.8	6924.0
12.5°	6873.6	6894.9	6947.2	7049.9	7179.7	7232.0	7195.2	7098.4	7011.2	6949.2	6939.5
15°	6790.3	6813.6	6893.0	7048.0	7239.8	7361.8	7358.0	7230.1	7090.6	6993.7	6978.2
17.5°	6660.5	6683.8	6798.1	7015.0	7286.3	7487.8	7542.0	7410.3	7214.6	7084.8	7063.5
20°	6426.1	6447.4	6606.3	6910.4	7301.8	7621.4	7762.9	7646.6	7402.5	7226.2	7193.3
22.5°	6121.9	6154.9	6340.9	6730.3	7265.0	7760.9	8014.7	7935.3	7621.4	7377.3	7332.8
25°	5796.5	5831.3	6048.3	6509.4	7170.0	7861.7	8313.1	8262.7	7869.4	7565.2	7503.3
27.5°	5515.6	5552.4	5788.7	6290.5	7022.8	7900.4	8607.5	8632.7	8169.7	7772.5	7706.7
30°	5294.7	5329.6	5581.4	6114.2	6832.9	7861.7	8865.2	9039.5	8475.8	7952.7	7857.8
32.5°	5052.5	5097.1	5362.5	5899.1	6608.2	7768.7	9089.9	9479.3	8830.3	8146.4	8026.3
35°	4746.4	4787.1	5066.1	5604.7	6313.7	7619.5	9277.8	9967.5	9337.9	8440.9	8307.2
37.5°	4374.5	4413.2	4690.3	5236.6	6021.2	7410.3	9421.2	10517.7	9942.3	8865.2	8687.0
40°	4000.6	4037.4	4297.0	4825.9	5670.5	7142.9	9471.6	11056.3	10635.9	9448.3	9258.5
42.5°	3657.7	3690.6	3928.9	4421.0	5277.3	6801.9	9405.7	11525.1	11257.8	9855.2	9611.1
45°	3341.9	3370.9	3582.1	4041.3	4868.5	6387.4	9208.1	12028.8	11997.8	10145.8	9816.4
47.5°	2981.5	3010.6	3229.5	3673.2	4459.7	5901.1	8872.9	12524.8	13026.6	10804.5	10424.7
50°	2541.8	2567.0	2791.7	3248.9	4035.4	5383.8	8408.0	12914.2	14324.6	11802.2	11325.6
52.5°	2020.6	2047.8	2266.7	2723.9	3531.7	4827.8	7795.8	13168.0	15824.1	13259.0	12672.0
55°	1503.4	1522.7	1712.6	2123.3	2907.9	4194.3	7028.6	13239.7	17525.0	15250.6	14516.4
57.5°	1090.7	1102.3	1224.4	1530.5	2204.7	3401.9	6096.8	13053.7	19549.5	17804.0	16879.9
60°	883.4	887.3	924.1	1059.7	1532.4	2506.9	4971.2	12414.4	21746.5	21095.5	19931.2
62.5°	802.1	802.1	811.7	848.5	1036.5	1654.5	3609.2	11089.2	24102.2	25254.9	23695.4
65°	745.9	745.9	749.7	767.2	817.6	1053.9	2278.3	8931.1	26088.0	30127.3	28155.1
67.5°	695.5	697.4	695.5	701.3	730.4	778.8	1321.3	6168.4	27157.4	35176.0	33046.9
70°	643.2	647.1	637.4	637.4	660.6	662.6	827.2	3382.6	26270.1	39407.1	38847.2
72.5°	581.2	587.0	571.5	567.6	585.1	577.3	621.9	1623.5	22554.3	40670.2	42142.6
75°	527.0	534.7	499.8	490.1	490.1	484.3	505.6	833.0	14638.4	33176.7	35485.9
77.5°	478.5	494.0	437.8	406.8	399.1	381.7	412.6	509.5	6402.9	15576.1	15252.5
80°	395.2	416.5	360.3	323.5	310.0	290.6	325.5	356.5	1904.4	3617.0	3463.9
82.5°	294.5	304.2	255.7	230.5	218.9	205.4	244.1	248.0	619.9	1280.6	1447.2
85°	187.9	191.8	156.9	135.6	129.8	124.0	155.0	135.6	236.4	941.5	1367.8
87.5°	65.9	75.6	60.1	54.2	58.1	48.4	71.7	40.7	65.9	664.5	823.4
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)