

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: P884845

Luminaire Tested: **NAV-SB5D-835-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884845
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-SB5D-835-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43101 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

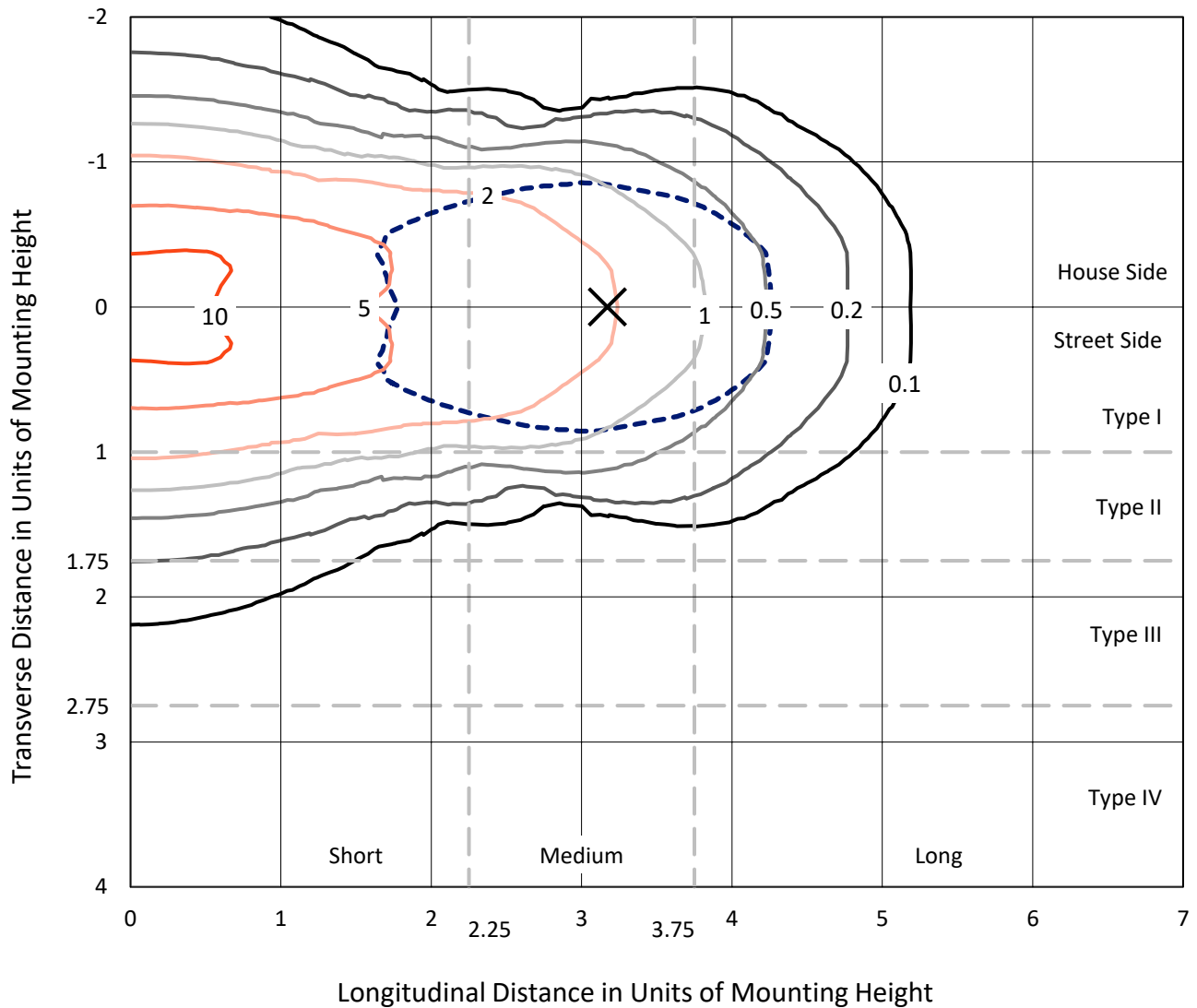
Input Watts (W): 364.9
Input Voltage (V): 120.0
Input Current (Ain): 3.094
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 3.28
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

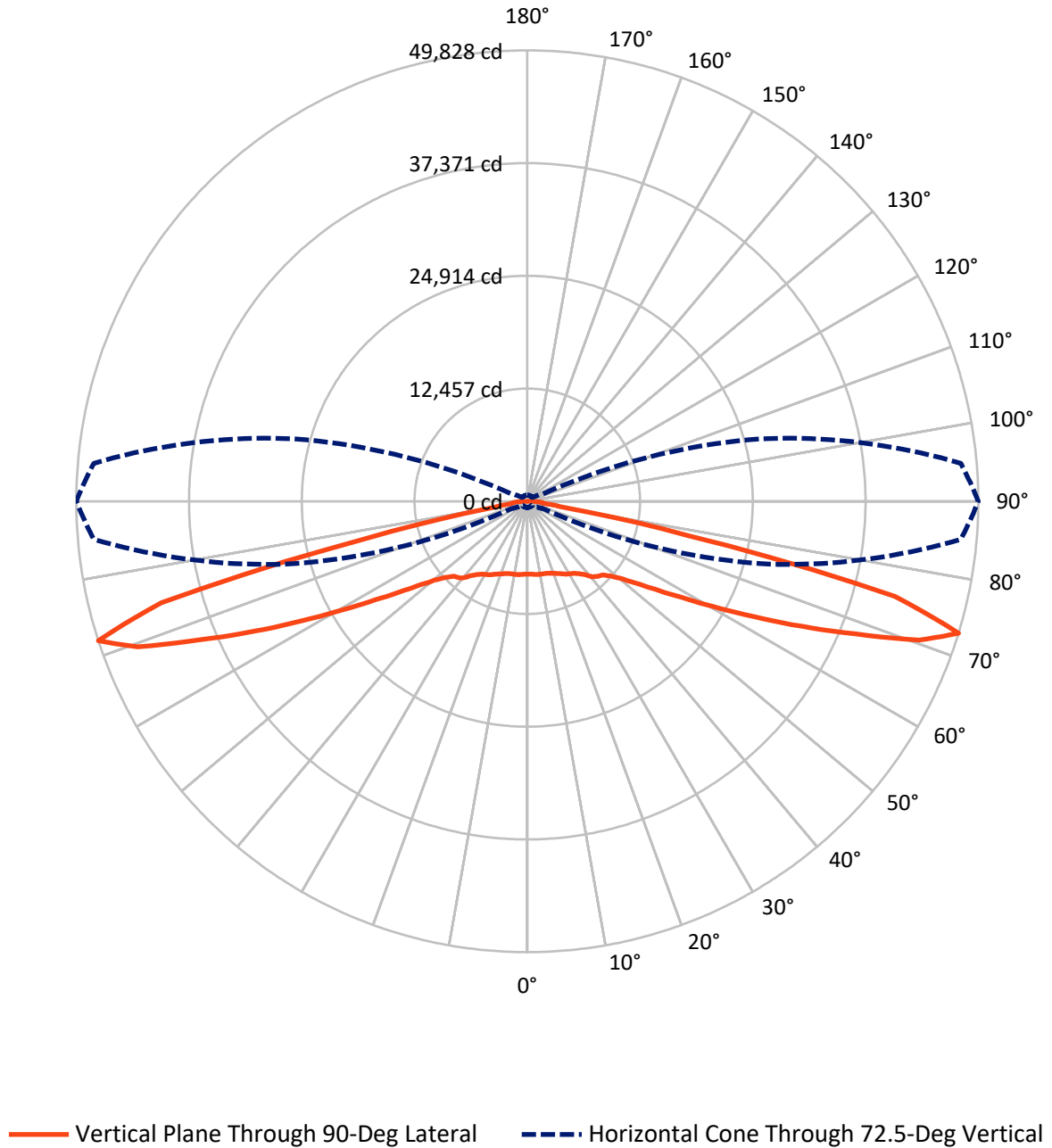
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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	21550.5	0.0	21550.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21550.5	0.0	21550.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	43101.0	0.0	43101.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	780.9	1.8
10°-20°	2387.7	5.5
20°-30°	3981.4	9.2
30°-40°	5475.6	12.7
40°-50°	6687.2	15.5
50°-60°	7734.4	17.9
60°-70°	9222.1	21.4
70°-80°	6436.4	14.9
80°-90°	395.3	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°	43101.0	100.0
0°-180°	43101.0	100.0



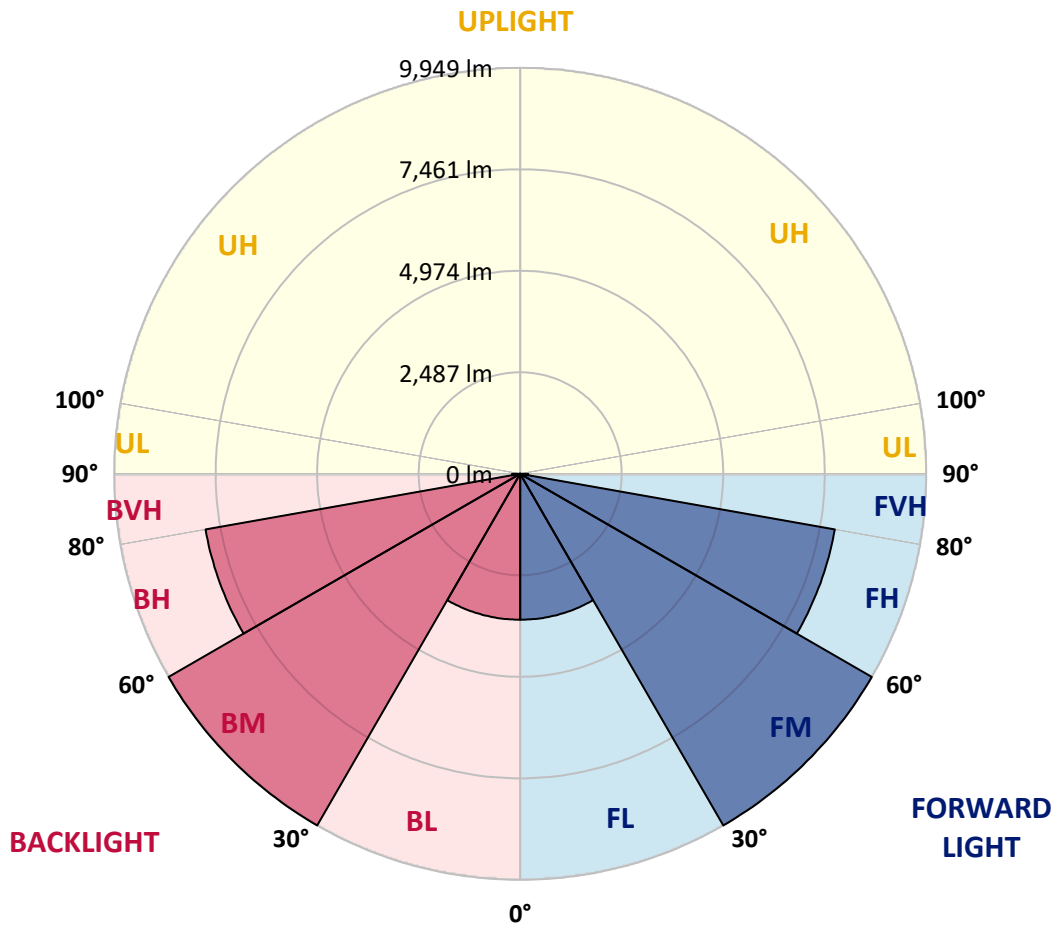
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3575.0	8.3			
FM (30°-60°)	9948.6	23.1			
FH (60°-80°)	7829.2	18.2			G4/12000
FVH (80°-90°)	197.7	0.5			G2/225
BL (0°-30°)	3575.0	8.3	B4/5000		
BM (30°-60°)	9948.6	23.1	B5		
BH (60°-80°)	7829.2	18.2	B5		G5
BVH (80°-90°)	197.7	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°	8053.9	8053.9	8053.9	8053.9	8053.9	8053.9	8053.9	8053.9	8053.9	8053.9	8053.9
2.5°	8060.7	8069.9	8069.9	8063.0	8079.1	8065.3	8065.3	8058.5	8065.3	8058.5	8058.5
5°	8102.0	8113.4	8118.0	8115.7	8136.3	8124.9	8124.9	8115.7	8118.0	8111.1	8111.1
7.5°	8179.9	8195.9	8205.1	8216.5	8246.3	8232.5	8223.4	8195.9	8184.4	8166.1	8166.1
10°	8205.1	8223.4	8253.2	8312.7	8381.4	8383.7	8356.2	8287.5	8234.8	8193.6	8186.7
12.5°	8127.2	8152.4	8214.2	8335.6	8489.1	8550.9	8507.4	8392.9	8289.8	8216.5	8205.1
15°	8028.7	8056.2	8150.1	8333.3	8560.1	8704.4	8699.8	8548.7	8383.7	8269.2	8250.9
17.5°	7875.2	7902.7	8037.8	8294.4	8615.1	8853.3	8917.4	8761.7	8530.3	8376.9	8351.7
20°	7598.0	7623.2	7811.1	8170.7	8633.4	9011.4	9178.6	9041.1	8752.5	8544.1	8505.1
22.5°	7238.4	7277.4	7497.3	7957.7	8589.9	9176.3	9476.4	9382.4	9011.4	8722.7	8670.1
25°	6853.6	6894.8	7151.4	7696.5	8477.6	9295.4	9829.1	9769.6	9304.6	8944.9	8871.6
27.5°	6521.4	6565.0	6844.4	7437.7	8303.6	9341.2	10177.3	10207.1	9659.6	9190.0	9112.2
30°	6260.3	6301.5	6599.3	7229.2	8079.1	9295.4	10482.0	10688.1	10021.5	9403.1	9290.8
32.5°	5974.0	6026.7	6340.5	6975.0	7813.4	9185.5	10747.7	11208.1	10440.7	9632.1	9490.1
35°	5612.1	5660.2	5990.0	6626.8	7465.2	9009.1	10969.9	11785.3	11040.9	9980.3	9822.2
37.5°	5172.3	5218.1	5545.6	6191.6	7119.3	8761.7	11139.4	12435.9	11755.5	10482.0	10271.2
40°	4730.2	4773.7	5080.6	5706.0	6704.7	8445.6	11198.9	13072.7	12575.6	11171.4	10947.0
42.5°	4324.7	4363.7	4645.4	5227.2	6239.7	8042.4	11121.0	13627.0	13310.9	11652.5	11363.8
45°	3951.3	3985.7	4235.4	4778.3	5756.4	7552.2	10887.4	14222.6	14185.9	11996.1	11606.7
47.5°	3525.3	3559.6	3818.5	4343.0	5273.0	6977.3	10491.1	14809.0	15402.2	12774.9	12325.9
50°	3005.3	3035.1	3300.8	3841.4	4771.4	6365.7	9941.4	15269.4	16937.0	13954.6	13391.1
52.5°	2389.1	2421.2	2680.0	3220.6	4175.8	5708.3	9217.5	15569.5	18709.9	15677.1	14983.1
55°	1777.5	1800.4	2024.9	2510.5	3438.2	4959.2	8310.4	15654.2	20721.1	18031.9	17163.7
57.5°	1289.6	1303.4	1447.7	1809.6	2606.7	4022.4	7208.6	15434.3	23114.8	21050.9	19958.3
60°	1044.5	1049.1	1092.6	1253.0	1811.9	2964.1	5877.8	14678.4	25712.4	24942.7	23566.1
62.5°	948.3	948.3	959.8	1003.3	1225.5	1956.2	4267.5	13111.6	28497.8	29860.7	28016.8
65°	881.9	881.9	886.5	907.1	966.6	1246.1	2693.8	10559.8	30845.7	35621.7	33289.8
67.5°	822.3	824.6	822.3	829.2	863.6	920.8	1562.2	7293.4	32110.1	41591.1	39073.7
70°	760.5	765.1	753.6	753.6	781.1	783.4	978.1	3999.5	31061.0	46593.8	45931.8
72.5°	687.2	694.1	675.7	671.2	691.8	682.6	735.3	1919.6	26667.6	48087.3	49828.2
75°	623.1	632.2	591.0	579.5	579.5	572.7	597.9	985.0	17308.0	39227.1	41957.6
77.5°	565.8	584.1	517.7	481.0	471.9	451.3	487.9	602.4	7570.6	18416.7	18034.2
80°	467.3	492.5	426.1	382.5	366.5	343.6	384.8	421.5	2251.7	4276.6	4095.7
82.5°	348.2	359.6	302.4	272.6	258.8	242.8	288.6	293.2	733.0	1514.1	1711.1
85°	222.2	226.8	185.5	160.3	153.5	146.6	183.3	160.3	279.5	1113.2	1617.2
87.5°	77.9	89.3	71.0	64.1	68.7	57.3	84.8	48.1	77.9	785.7	973.5
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)