

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: P884485

Luminaire Tested: **NAV-SB5B-827-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884485
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-827-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22967 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

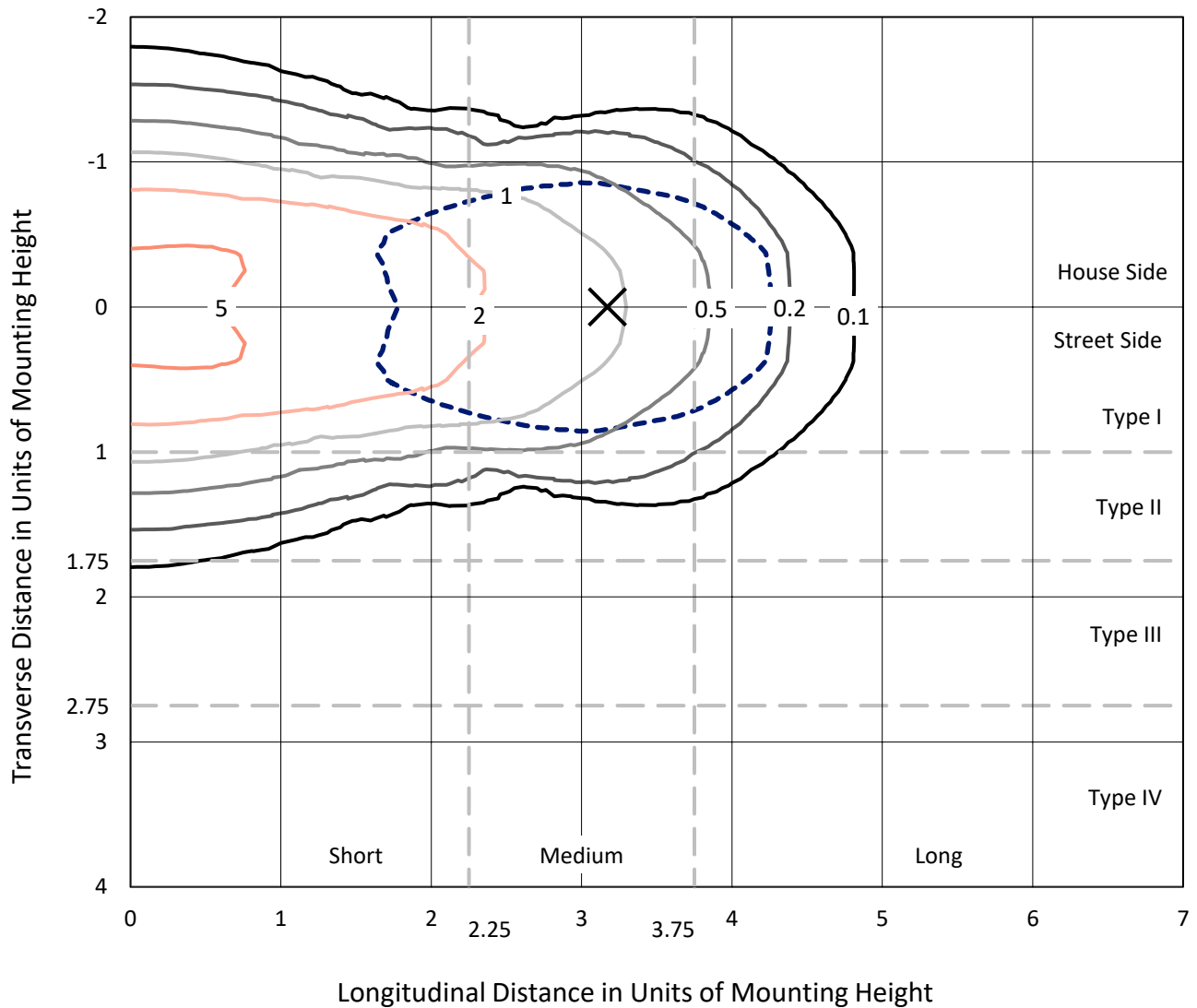
Input Watts (W): 182.7
Input Voltage (V): 120.0
Input Current (Ain): 1.547
Voltage Rise (V): NR
Power Factor: 0.992
Total Harmonic Distortion (THDi): 11.125
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P884485
 CATALOG NUMBER: NAV-SB5B-827-U-T1

Iso-Footcandle Lines of Horizontal Illumination

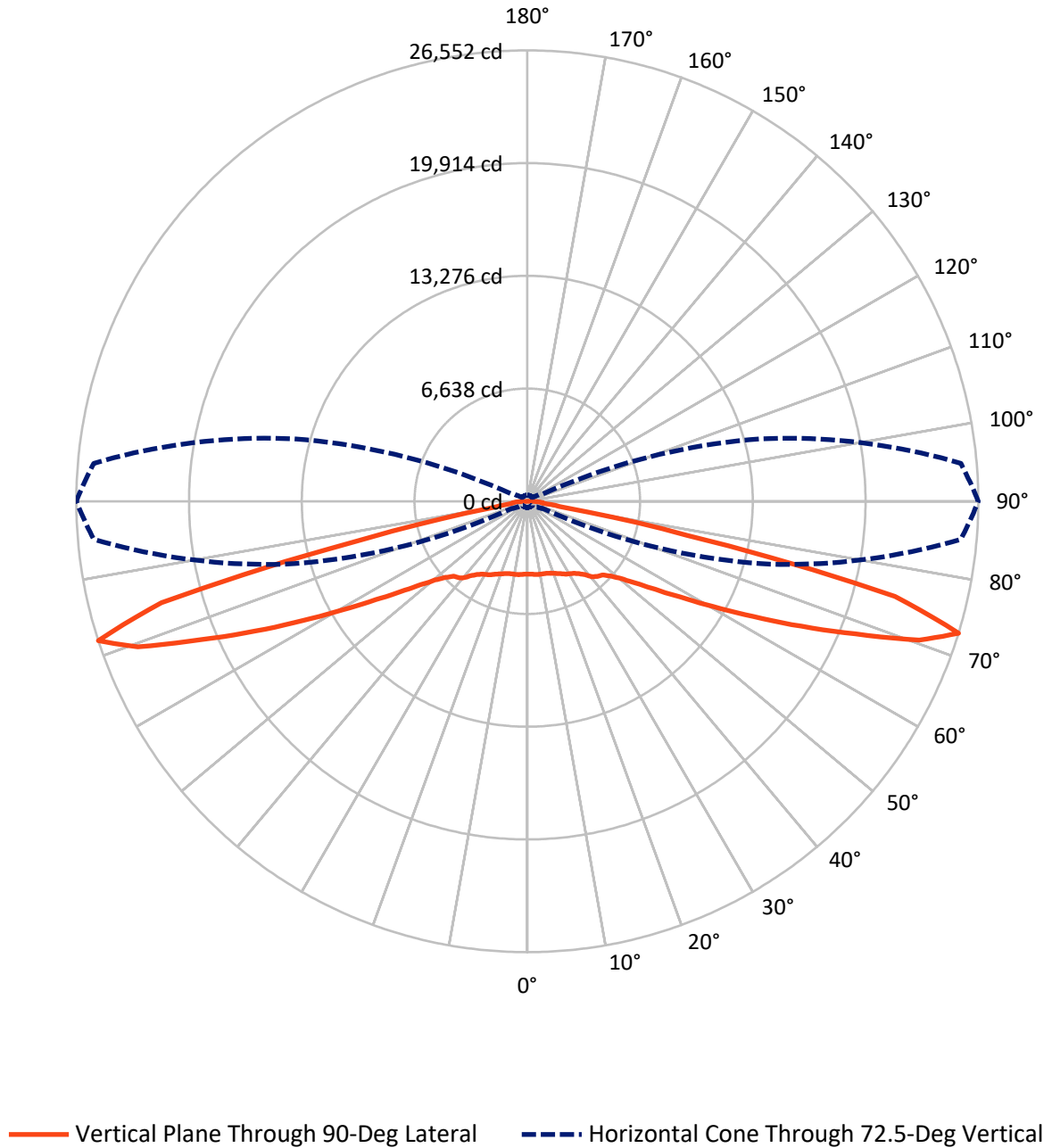
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type I - Short - N/A

REPORT NUMBER: P884485
CATALOG NUMBER: NAV-SB5B-827-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P884485
 CATALOG NUMBER: NAV-SB5B-827-U-T1

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11483.5	0.0	11483.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11483.5	0.0	11483.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	22967.0	0.0	22967.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.1	1.8
10°-20°	1272.3	5.5
20°-30°	2121.5	9.2
30°-40°	2917.8	12.7
40°-50°	3563.4	15.5
50°-60°	4121.4	17.9
60°-70°	4914.1	21.4
70°-80°	3429.7	14.9
80°-90°	210.6	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°	22967.0	100.0
0°-180°	22967.0	100.0

Coefficient of Utilization



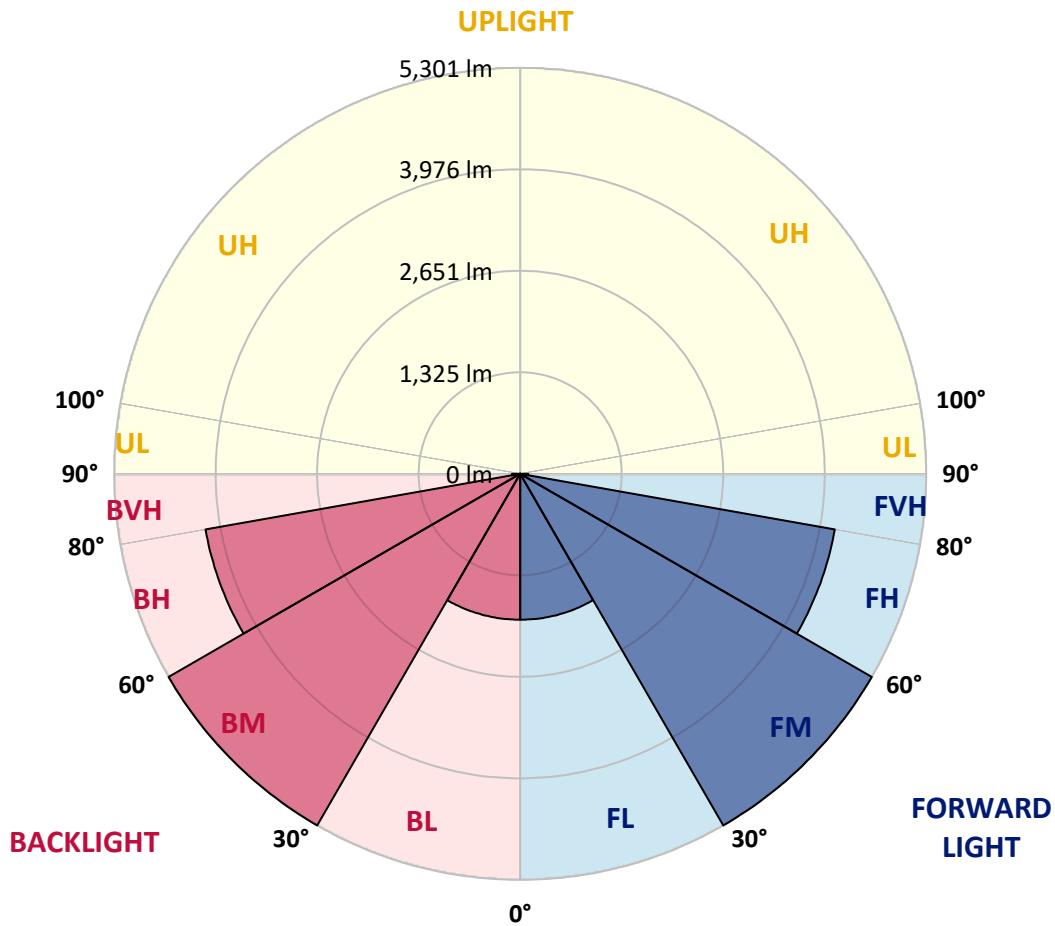
REPORT NUMBER: P884485
 CATALOG NUMBER: NAV-SB5B-827-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1905.0	8.3			
FM (30°-60°)	5301.3	23.1			
FH (60°-80°)	4171.9	18.2			G2/5000
FVH (80°-90°)	105.3	0.5			G2/225
BL (0°-30°)	1905.0	8.3	B3/2500		
BM (30°-60°)	5301.3	23.1	B4/8500		
BH (60°-80°)	4171.9	18.2	B4/5000		G4/5000
BVH (80°-90°)	105.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short



REPORT NUMBER: P884485
 CATALOG NUMBER: NAV-SB5B-827-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4291.6	4291.6	4291.6	4291.6	4291.6	4291.6	4291.6	4291.6	4291.6	4291.6	4291.6
2.5°	4295.3	4300.2	4300.2	4296.5	4305.1	4297.7	4297.7	4294.1	4297.7	4294.1	4294.1
5°	4317.3	4323.4	4325.8	4324.6	4335.6	4329.5	4329.5	4324.6	4325.8	4322.1	4322.1
7.5°	4358.8	4367.3	4372.2	4378.3	4394.2	4386.8	4382.0	4367.3	4361.2	4351.4	4351.4
10°	4372.2	4382.0	4397.8	4429.6	4466.2	4467.4	4452.7	4416.1	4388.1	4366.1	4362.4
12.5°	4330.7	4344.1	4377.1	4441.8	4523.5	4556.5	4533.3	4472.3	4417.3	4378.3	4372.2
15°	4278.2	4292.8	4342.9	4440.5	4561.4	4638.3	4635.8	4555.3	4467.4	4406.4	4396.6
17.5°	4196.4	4211.1	4283.1	4419.8	4590.7	4717.6	4751.8	4668.8	4545.5	4463.7	4450.3
20°	4048.7	4062.2	4162.2	4353.9	4600.4	4801.8	4890.9	4817.7	4663.9	4552.8	4532.1
22.5°	3857.1	3877.8	3995.0	4240.4	4577.2	4889.7	5049.6	4999.6	4801.8	4648.0	4620.0
25°	3652.0	3674.0	3810.7	4101.2	4517.4	4953.2	5237.6	5205.9	4958.1	4766.4	4727.4
27.5°	3475.0	3498.2	3647.2	3963.3	4424.7	4977.6	5423.1	5439.0	5147.3	4897.0	4855.5
30°	3335.9	3357.9	3516.5	3852.2	4305.1	4953.2	5585.5	5695.3	5340.1	5010.6	4950.7
32.5°	3183.3	3211.4	3378.6	3716.7	4163.5	4894.6	5727.1	5972.4	5563.5	5132.6	5056.9
35°	2990.5	3016.1	3191.9	3531.2	3977.9	4800.6	5845.4	6280.0	5883.3	5318.2	5233.9
37.5°	2756.1	2780.5	2955.1	3299.3	3793.6	4668.8	5935.8	6626.6	6264.1	5585.5	5473.2
40°	2520.5	2543.7	2707.3	3040.5	3572.7	4500.3	5967.5	6966.0	6701.1	5952.9	5833.2
42.5°	2304.5	2325.2	2475.4	2785.4	3324.9	4285.5	5926.0	7261.3	7092.9	6209.2	6055.4
45°	2105.5	2123.8	2256.9	2546.2	3067.4	4024.3	5801.5	7578.7	7559.2	6392.3	6184.8
47.5°	1878.5	1896.8	2034.7	2314.3	2809.8	3717.9	5590.3	7891.2	8207.3	6807.3	6568.0
50°	1601.4	1617.3	1758.9	2046.9	2542.5	3392.0	5297.4	8136.5	9025.1	7435.9	7135.6
52.5°	1273.1	1290.2	1428.1	1716.2	2225.2	3041.7	4911.7	8296.4	9969.9	8353.8	7983.9
55°	947.2	959.4	1079.0	1337.8	1832.1	2642.6	4428.3	8341.6	11041.5	9608.6	9145.9
57.5°	687.2	694.5	771.4	964.3	1389.0	2143.4	3841.2	8224.4	12317.1	11217.3	10635.1
60°	556.6	559.0	582.2	667.7	965.5	1579.5	3132.1	7821.6	13701.2	13291.1	12557.5
62.5°	505.3	505.3	511.4	534.6	653.0	1042.4	2274.0	6986.7	15185.5	15911.7	14929.1
65°	469.9	469.9	472.4	483.4	515.1	664.0	1435.4	5627.0	16436.6	18981.5	17739.0
67.5°	438.2	439.4	438.2	441.9	460.2	490.7	832.4	3886.4	17110.4	22162.4	20821.0
70°	405.2	407.7	401.6	401.6	416.2	417.4	521.2	2131.2	16551.3	24828.2	24475.5
72.5°	366.2	369.8	360.1	357.6	368.6	363.7	391.8	1022.9	14210.2	25624.0	26551.7
75°	332.0	336.9	314.9	308.8	308.8	305.1	318.6	524.9	9222.8	20902.8	22357.7
77.5°	301.5	311.3	275.9	256.3	251.4	240.5	260.0	321.0	4034.1	9813.6	9609.8
80°	249.0	262.4	227.0	203.8	195.3	183.1	205.1	224.6	1199.8	2278.9	2182.4
82.5°	185.5	191.6	161.1	145.3	137.9	129.4	153.8	156.2	390.6	806.8	911.8
85°	118.4	120.8	98.9	85.4	81.8	78.1	97.6	85.4	148.9	593.2	861.7
87.5°	41.5	47.6	37.8	34.2	36.6	30.5	45.2	25.6	41.5	418.7	518.8
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)