

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: P884335

Luminaire Tested: **NAV-SB5A-835-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884335
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-SB5A-835-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19000 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

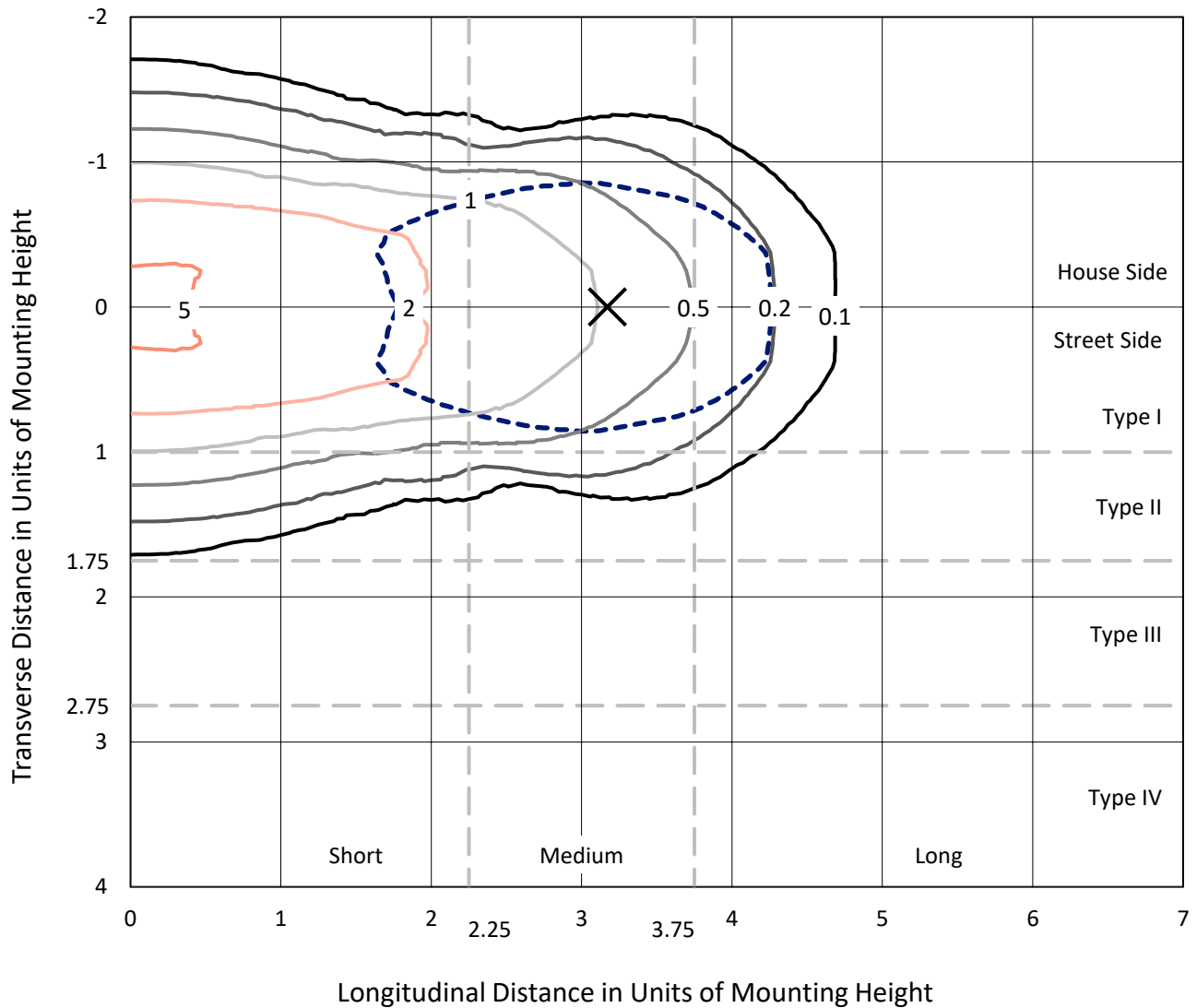
Input Watts (W): 141.7
Input Voltage (V): 120.0
Input Current (Ain): 1.201
Voltage Rise (V): NR
Power Factor: 0.992
Total Harmonic Distortion (THDi): 10.503
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

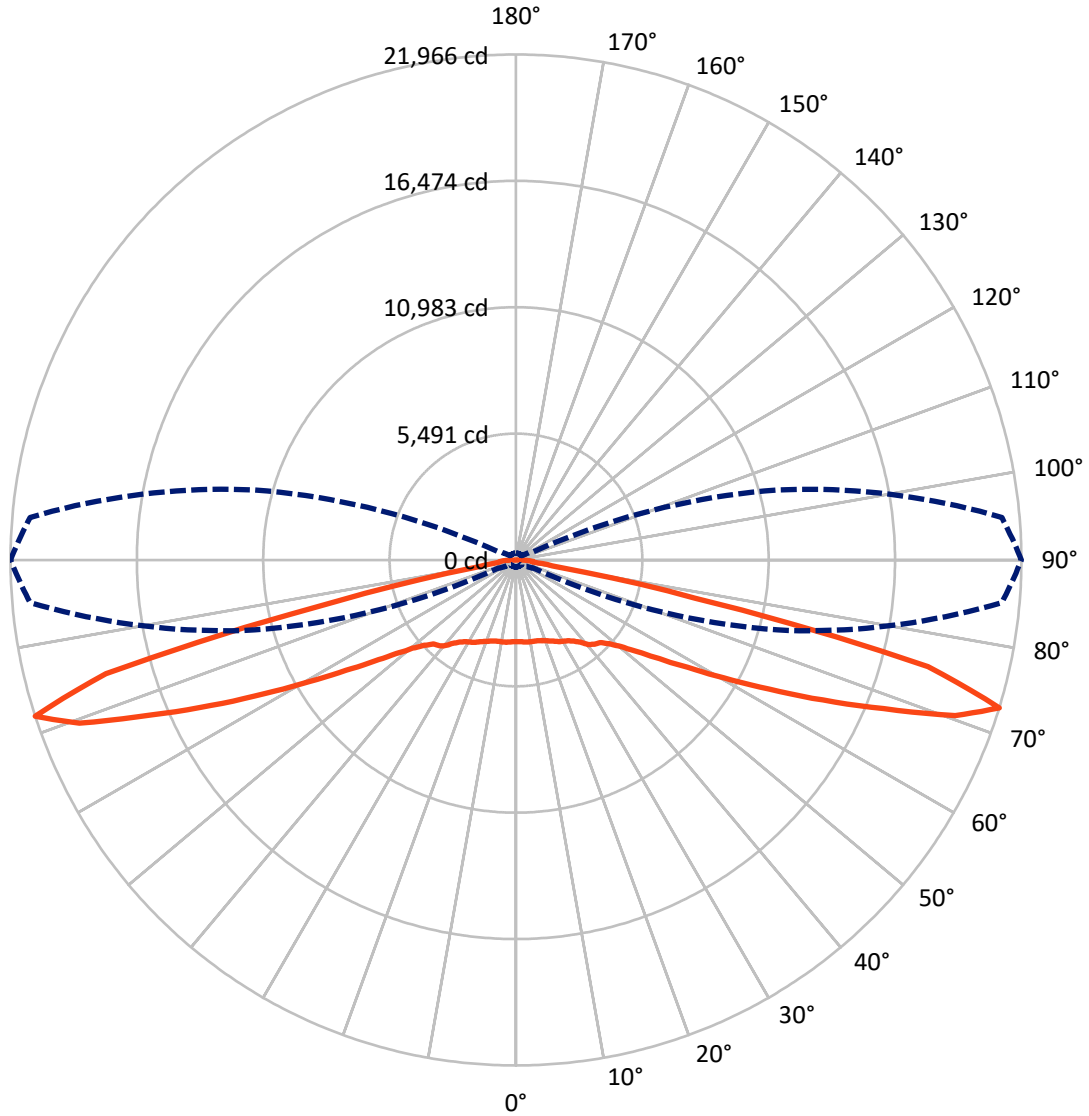
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9500.0	0.0	9500.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9500.0	0.0	9500.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19000.0	0.0	19000.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.2	1.8
10°-20°	1052.6	5.5
20°-30°	1755.1	9.2
30°-40°	2413.8	12.7
40°-50°	2947.9	15.5
50°-60°	3409.5	17.9
60°-70°	4065.3	21.4
70°-80°	2837.3	14.9
80°-90°	174.3	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°	19000.0	100.0
0°-180°	19000.0	100.0

Coefficient of Utilization

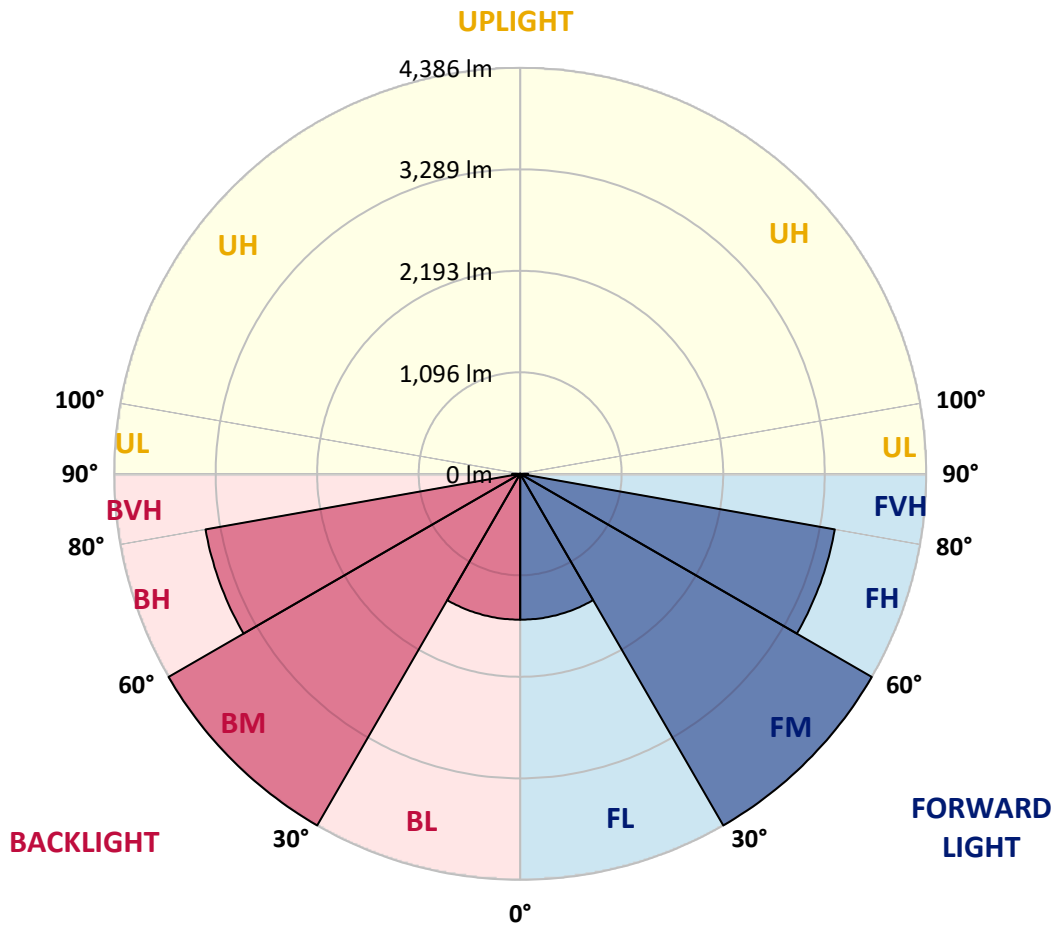


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1575.9	8.3			
FM (30°-60°)	4385.6	23.1			
FH (60°-80°)	3451.3	18.2			G2/5000
FVH (80°-90°)	87.1	0.5			G1/100
BL (0°-30°)	1575.9	8.3	B3/2500		
BM (30°-60°)	4385.6	23.1	B3/5000		
BH (60°-80°)	3451.3	18.2	B4/5000		G4/5000
BVH (80°-90°)	87.1	0.5			G1/100
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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3550.4	3550.4	3550.4	3550.4	3550.4	3550.4	3550.4	3550.4	3550.4	3550.4	3550.4
2.5°	3553.4	3557.4	3557.4	3554.4	3561.5	3555.4	3555.4	3552.4	3555.4	3552.4	3552.4
5°	3571.6	3576.6	3578.6	3577.6	3586.7	3581.7	3581.7	3577.6	3578.6	3575.6	3575.6
7.5°	3605.9	3613.0	3617.0	3622.0	3635.2	3629.1	3625.1	3613.0	3607.9	3599.8	3599.8
10°	3617.0	3625.1	3638.2	3664.5	3694.7	3695.8	3683.6	3653.3	3630.1	3611.9	3608.9
12.5°	3582.7	3593.8	3621.0	3674.6	3742.2	3769.5	3750.3	3699.8	3654.4	3622.0	3617.0
15°	3539.2	3551.4	3592.8	3673.5	3773.5	3837.1	3835.1	3768.5	3695.8	3645.3	3637.2
17.5°	3471.6	3483.7	3543.3	3656.4	3797.7	3902.8	3931.0	3862.4	3760.4	3692.7	3681.6
20°	3349.4	3360.5	3443.3	3601.8	3805.8	3972.4	4046.1	3985.6	3858.3	3766.4	3749.3
22.5°	3190.9	3208.0	3305.0	3507.9	3786.6	4045.1	4177.4	4136.0	3972.4	3845.2	3822.0
25°	3021.2	3039.4	3152.5	3392.8	3737.2	4097.6	4332.9	4306.7	4101.7	3943.2	3910.8
27.5°	2874.8	2894.0	3017.2	3278.7	3660.4	4117.8	4486.4	4499.5	4258.2	4051.2	4016.9
30°	2759.7	2777.9	2909.1	3186.8	3561.5	4097.6	4620.7	4711.6	4417.7	4145.1	4095.6
32.5°	2633.5	2656.7	2795.0	3074.7	3444.3	4049.2	4737.8	4940.8	4602.5	4246.1	4183.5
35°	2473.9	2495.1	2640.5	2921.3	3290.8	3971.4	4835.8	5195.3	4867.1	4399.6	4329.9
37.5°	2280.1	2300.3	2444.7	2729.4	3138.4	3862.4	4910.5	5482.0	5182.1	4620.7	4527.8
40°	2085.2	2104.4	2239.7	2515.3	2955.6	3723.0	4936.8	5762.8	5543.6	4924.6	4825.7
42.5°	1906.4	1923.6	2047.8	2304.3	2750.6	3545.3	4902.4	6007.1	5867.8	5136.7	5009.5
45°	1741.9	1757.0	1867.1	2106.4	2537.6	3329.2	4799.4	6269.7	6253.5	5288.2	5116.5
47.5°	1554.0	1569.2	1683.3	1914.5	2324.5	3075.8	4624.7	6528.2	6789.7	5631.5	5433.6
50°	1324.8	1337.9	1455.1	1693.4	2103.4	2806.2	4382.4	6731.1	7466.2	6151.5	5903.1
52.5°	1053.2	1067.3	1181.4	1419.7	1840.8	2516.3	4063.3	6863.4	8247.8	6910.9	6604.9
55°	783.6	793.7	892.6	1106.7	1515.7	2186.2	3663.4	6900.8	9134.4	7948.9	7566.2
57.5°	568.5	574.6	638.2	797.7	1149.1	1773.2	3177.7	6803.8	10189.6	9279.8	8798.1
60°	460.5	462.5	481.7	552.3	798.7	1306.6	2591.1	6470.6	11334.7	10995.4	10388.5
62.5°	418.0	418.0	423.1	442.3	540.2	862.3	1881.2	5779.9	12562.5	13163.4	12350.5
65°	388.8	388.8	390.8	399.9	426.1	549.3	1187.5	4655.0	13597.6	15702.9	14675.0
67.5°	362.5	363.5	362.5	365.5	380.7	405.9	688.7	3215.1	14155.0	18334.4	17224.7
70°	335.2	337.3	332.2	332.2	344.3	345.3	431.2	1763.1	13692.5	20539.7	20247.9
72.5°	302.9	306.0	297.9	295.9	305.0	300.9	324.1	846.2	11755.7	21198.1	21965.5
75°	274.7	278.7	260.5	255.5	255.5	252.4	263.5	434.2	7629.8	17292.3	18496.0
77.5°	249.4	257.5	228.2	212.1	208.0	198.9	215.1	265.6	3337.3	8118.5	7949.9
80°	206.0	217.1	187.8	168.6	161.6	151.5	169.6	185.8	992.6	1885.2	1805.5
82.5°	153.5	158.5	133.3	120.2	114.1	107.0	127.2	129.3	323.1	667.5	754.3
85°	97.9	100.0	81.8	70.7	67.7	64.6	80.8	70.7	123.2	490.7	712.9
87.5°	34.3	39.4	31.3	28.3	30.3	25.2	37.4	21.2	34.3	346.4	429.2
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)