

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: P883295

Luminaire Tested: **NAV-SB3C-827-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883295
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-SB3C-827-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18056 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

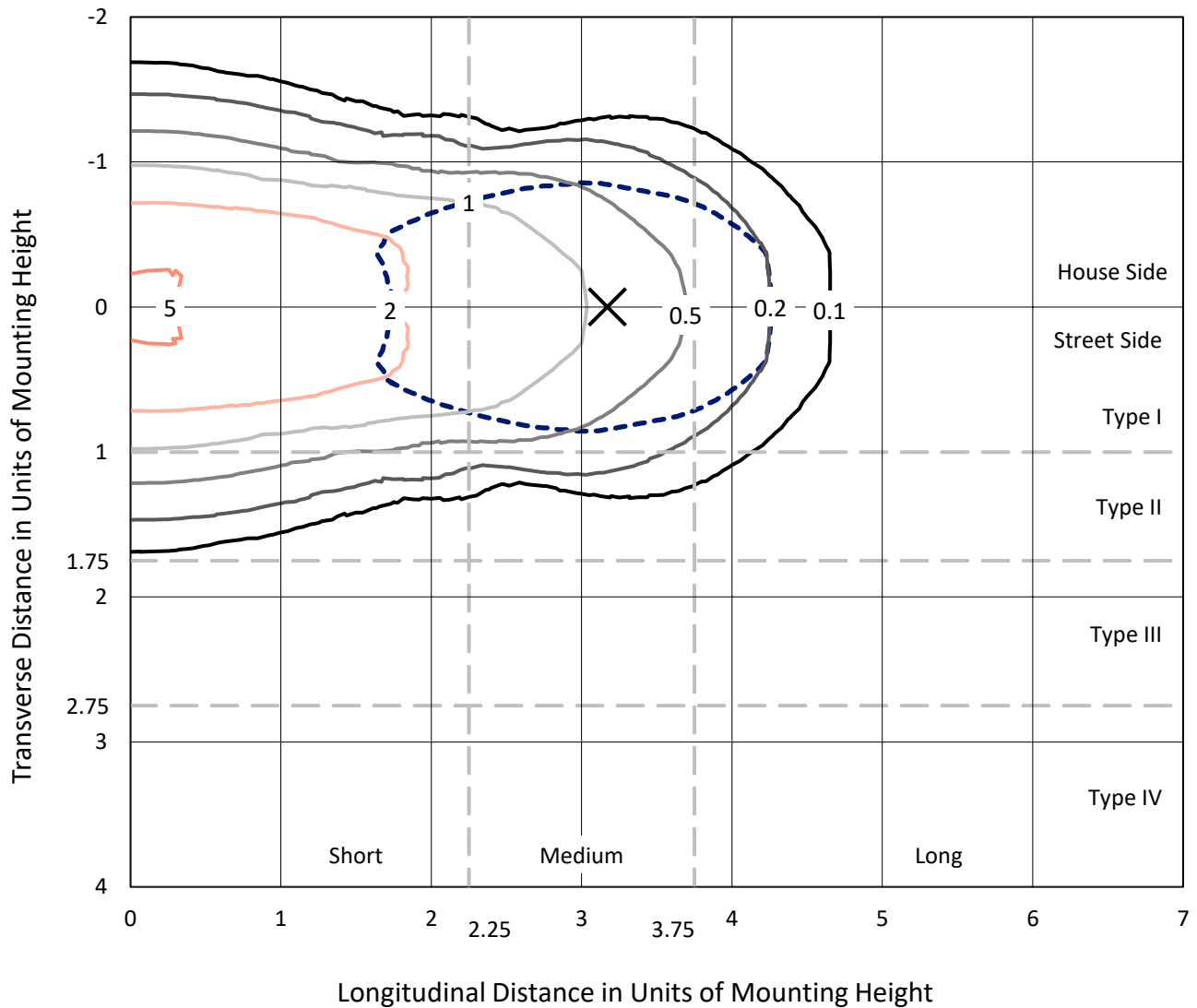
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

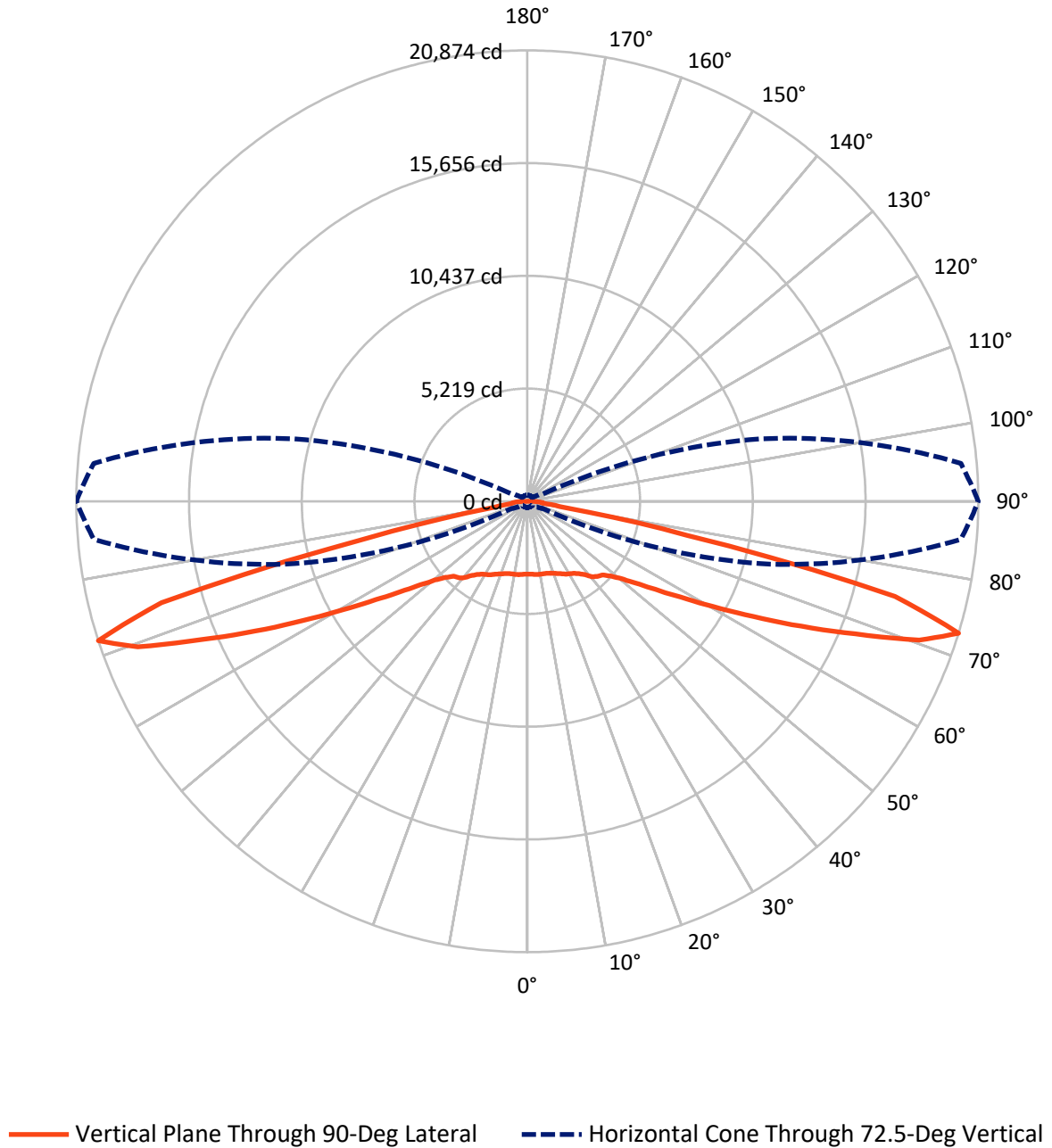
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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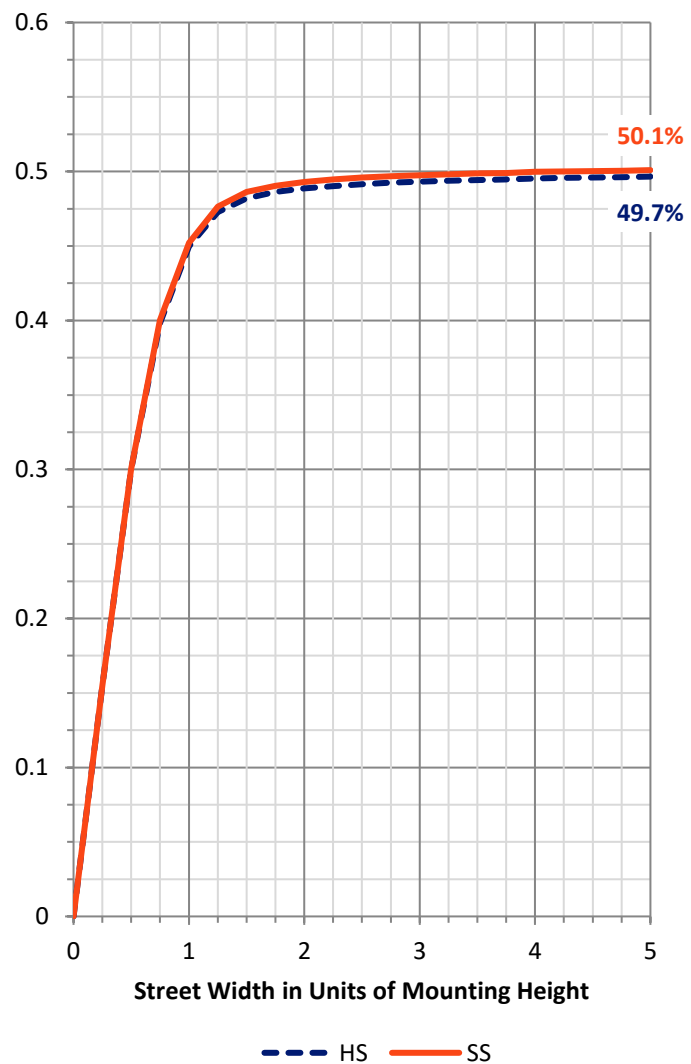
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9028.0	0.0	9028.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9028.0	0.0	9028.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	18056.0	0.0	18056.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.1	1.8
10°-20°	1000.3	5.5
20°-30°	1667.9	9.2
30°-40°	2293.9	12.7
40°-50°	2801.4	15.5
50°-60°	3240.1	17.9
60°-70°	3863.3	21.4
70°-80°	2696.4	14.9
80°-90°	165.6	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°	18056.0	100.0
0°-180°	18056.0	100.0

Coefficient of Utilization

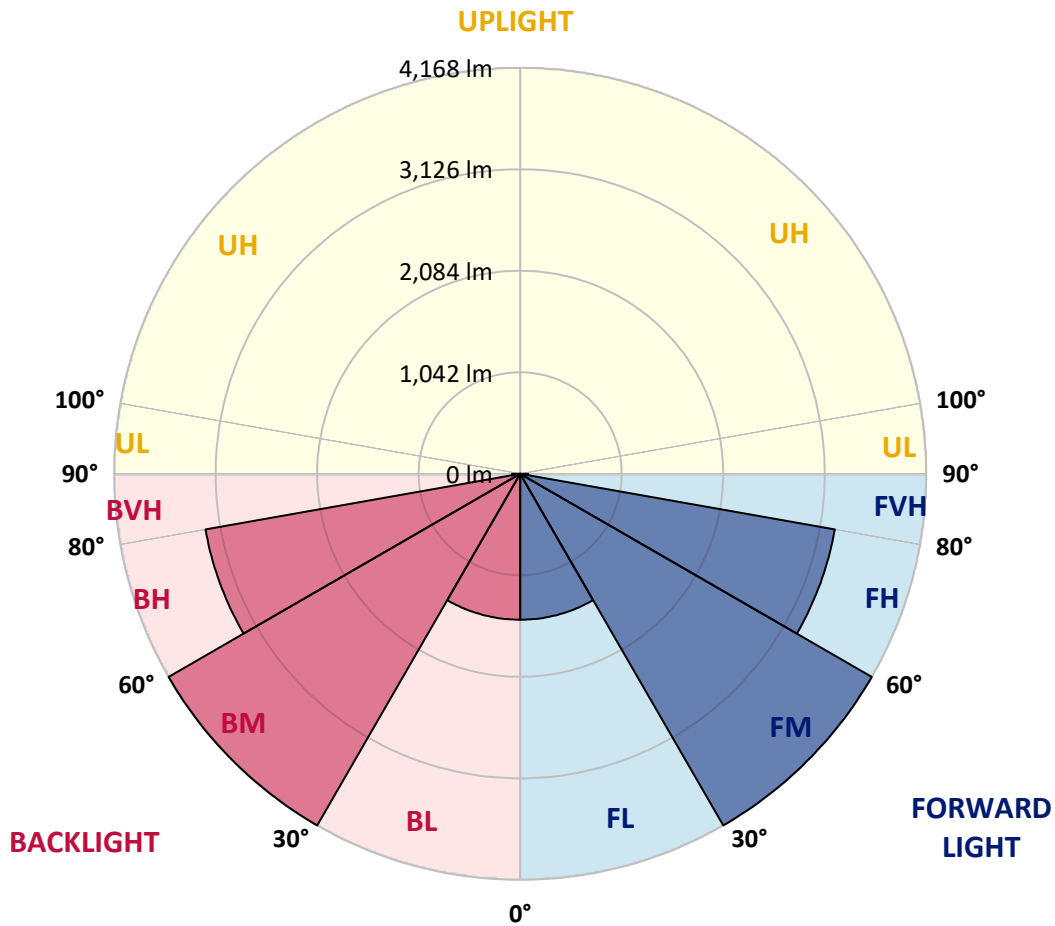


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1497.7	8.3			
FM (30°-60°)	4167.7	23.1			
FH (60°-80°)	3279.8	18.2			G2/5000
FVH (80°-90°)	82.8	0.5			G1/100
BL (0°-30°)	1497.7	8.3	B3/2500		
BM (30°-60°)	4167.7	23.1	B3/5000		
BH (60°-80°)	3279.8	18.2	B4/5000		G4/5000
BVH (80°-90°)	82.8	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°	3374.0	3374.0	3374.0	3374.0	3374.0	3374.0	3374.0	3374.0	3374.0	3374.0	3374.0
2.5°	3376.8	3380.7	3380.7	3377.8	3384.5	3378.8	3378.8	3375.9	3378.8	3375.9	3375.9
5°	3394.1	3398.9	3400.8	3399.9	3408.5	3403.7	3403.7	3399.9	3400.8	3397.9	3397.9
7.5°	3426.7	3433.4	3437.3	3442.1	3454.6	3448.8	3445.0	3433.4	3428.7	3421.0	3421.0
10°	3437.3	3445.0	3457.4	3482.4	3511.2	3512.1	3500.6	3471.8	3449.8	3432.5	3429.6
12.5°	3404.7	3415.2	3441.1	3492.0	3556.3	3582.2	3564.0	3516.0	3472.8	3442.1	3437.3
15°	3363.4	3374.9	3414.3	3491.0	3586.0	3646.5	3644.6	3581.2	3512.1	3464.2	3456.5
17.5°	3299.1	3310.6	3367.2	3474.7	3609.1	3708.9	3735.7	3670.5	3573.6	3509.3	3498.7
20°	3183.0	3193.5	3272.2	3422.9	3616.7	3775.1	3845.1	3787.5	3666.6	3579.3	3563.0
22.5°	3032.3	3048.6	3140.8	3333.7	3598.5	3844.2	3969.9	3930.5	3775.1	3654.2	3632.1
25°	2871.1	2888.4	2995.9	3224.3	3551.5	3894.1	4117.6	4092.7	3897.9	3747.2	3716.5
27.5°	2732.0	2750.2	2867.3	3115.8	3478.6	3913.2	4263.5	4276.0	4046.6	3849.9	3817.3
30°	2622.6	2639.9	2764.6	3028.5	3384.5	3894.1	4391.1	4477.5	4198.3	3939.2	3892.1
32.5°	2502.6	2524.7	2656.2	2922.0	3273.2	3848.0	4502.4	4695.3	4373.9	4035.1	3975.6
35°	2351.0	2371.2	2509.4	2776.1	3127.3	3774.1	4595.5	4937.1	4625.3	4181.0	4114.8
37.5°	2166.8	2186.0	2323.2	2593.8	2982.4	3670.5	4666.5	5209.7	4924.7	4391.1	4302.8
40°	1981.6	1999.8	2128.4	2390.4	2808.7	3538.0	4691.5	5476.4	5268.2	4680.0	4585.9
42.5°	1811.7	1828.0	1946.1	2189.8	2614.0	3369.2	4658.9	5708.7	5576.2	4881.5	4760.6
45°	1655.3	1669.7	1774.3	2001.7	2411.5	3163.8	4561.0	5958.2	5942.8	5025.4	4862.3
47.5°	1476.8	1491.2	1599.7	1819.4	2209.0	2922.9	4395.0	6203.8	6452.4	5351.7	5163.6
50°	1259.0	1271.5	1382.8	1609.2	1998.8	2666.7	4164.7	6396.7	7095.3	5845.9	5609.8
52.5°	1000.9	1014.3	1122.7	1349.2	1749.4	2391.3	3861.4	6522.4	7838.0	6567.5	6276.7
55°	744.6	754.2	848.3	1051.7	1440.4	2077.5	3481.4	6557.9	8680.5	7554.0	7190.3
57.5°	540.3	546.0	606.5	758.1	1092.0	1685.1	3019.9	6465.8	9683.3	8818.7	8361.0
60°	437.6	439.5	457.7	524.9	759.0	1241.7	2462.3	6149.1	10771.5	10449.1	9872.4
62.5°	397.3	397.3	402.1	420.3	513.4	819.5	1787.7	5492.8	11938.4	12509.3	11736.9
65°	369.4	369.4	371.4	380.0	405.0	522.0	1128.5	4423.8	12922.0	14922.7	13945.9
67.5°	344.5	345.5	344.5	347.4	361.8	385.8	654.4	3055.4	13451.7	17423.5	16368.9
70°	318.6	320.5	315.7	315.7	327.2	328.2	409.7	1675.5	13012.2	19519.2	19241.9
72.5°	287.9	290.8	283.1	281.2	289.8	286.0	308.0	804.1	11171.7	20144.9	20874.2
75°	261.0	264.8	247.6	242.8	242.8	239.9	250.5	412.6	7250.7	16433.2	17577.0
77.5°	237.0	244.7	216.9	201.5	197.7	189.0	204.4	252.4	3171.5	7715.2	7554.9
80°	195.8	206.3	178.5	160.3	153.5	143.9	161.2	176.6	943.3	1791.6	1715.8
82.5°	145.9	150.7	126.7	114.2	108.4	101.7	120.9	122.8	307.1	634.3	716.8
85°	93.1	95.0	77.7	67.2	64.3	61.4	76.8	67.2	117.1	466.4	677.5
87.5°	32.6	37.4	29.7	26.9	28.8	24.0	35.5	20.2	32.6	329.1	407.8
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)