

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: P884422

Luminaire Tested: **NAV-SB5B-727-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884422
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5B-727-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26193 lumens
Efficiency: N/A
Efficacy: 143.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

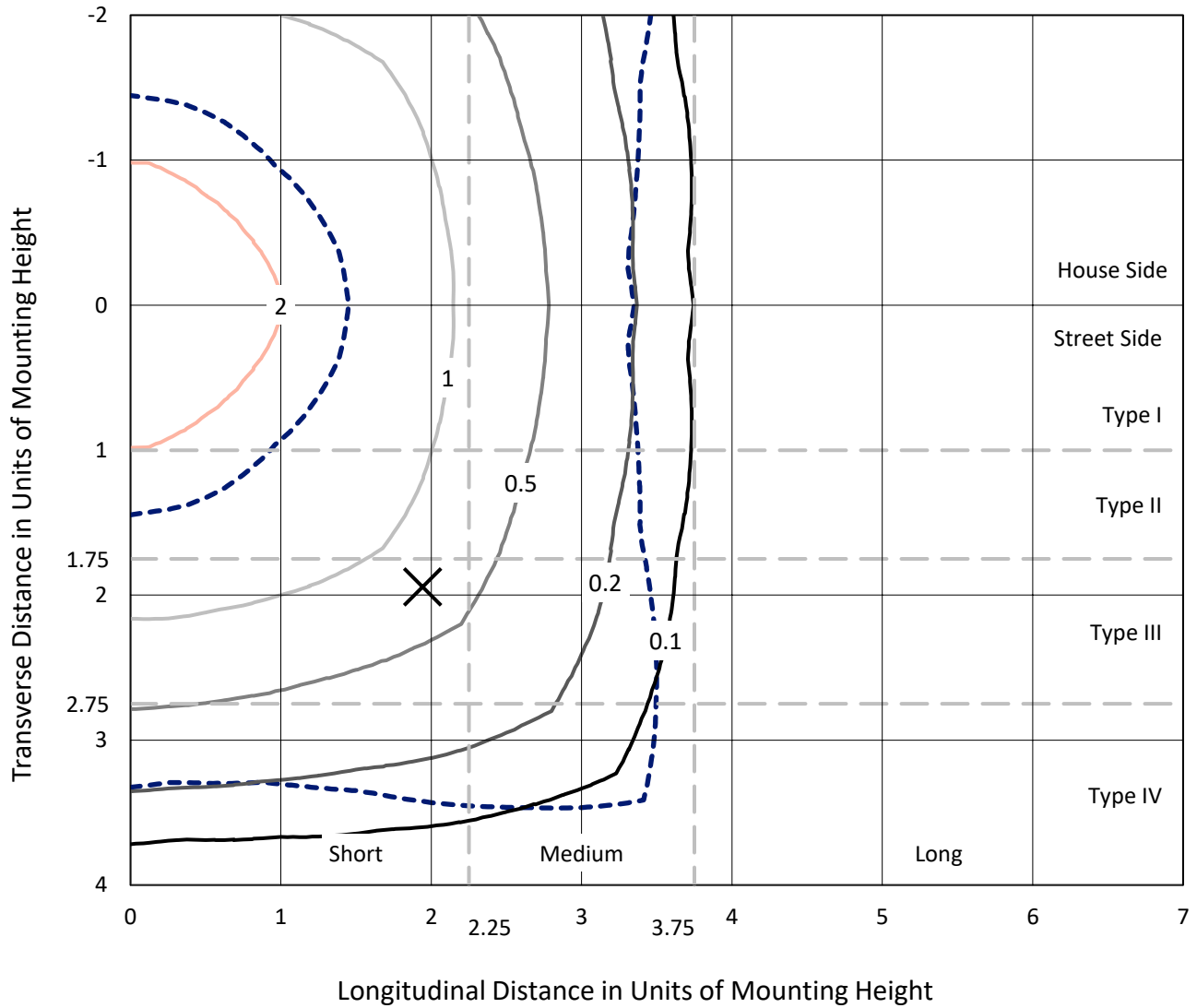
Input Watts (W): 182.7
Input Voltage (V): 120.0
Input Current (Ain): 1.547
Voltage Rise (V): NR
Power Factor: 0.992
Total Harmonic Distortion (THDi): 11.125
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

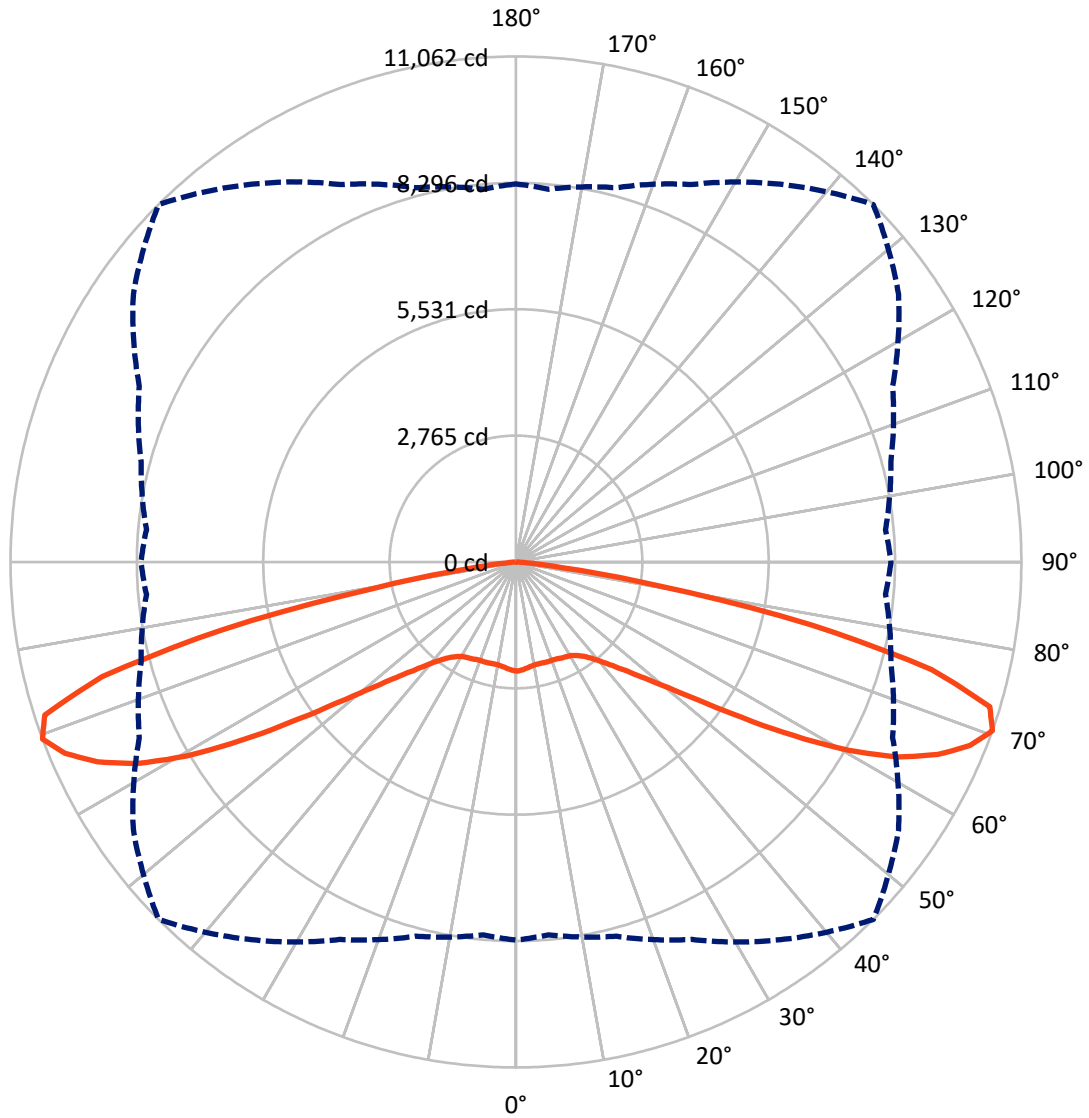
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13096.5	0.0	13096.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13096.5	0.0	13096.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	26193.0	0.0	26193.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.3	0.8
10°-20°	652.6	2.5
20°-30°	1086.1	4.1
30°-40°	1642.4	6.3
40°-50°	2729.4	10.4
50°-60°	5150.2	19.7
60°-70°	8696.3	33.2
70°-80°	5714.4	21.8
80°-90°	299.4	1.1
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°	26193.0	100.0
0°-180°	26193.0	100.0

Coefficient of Utilization



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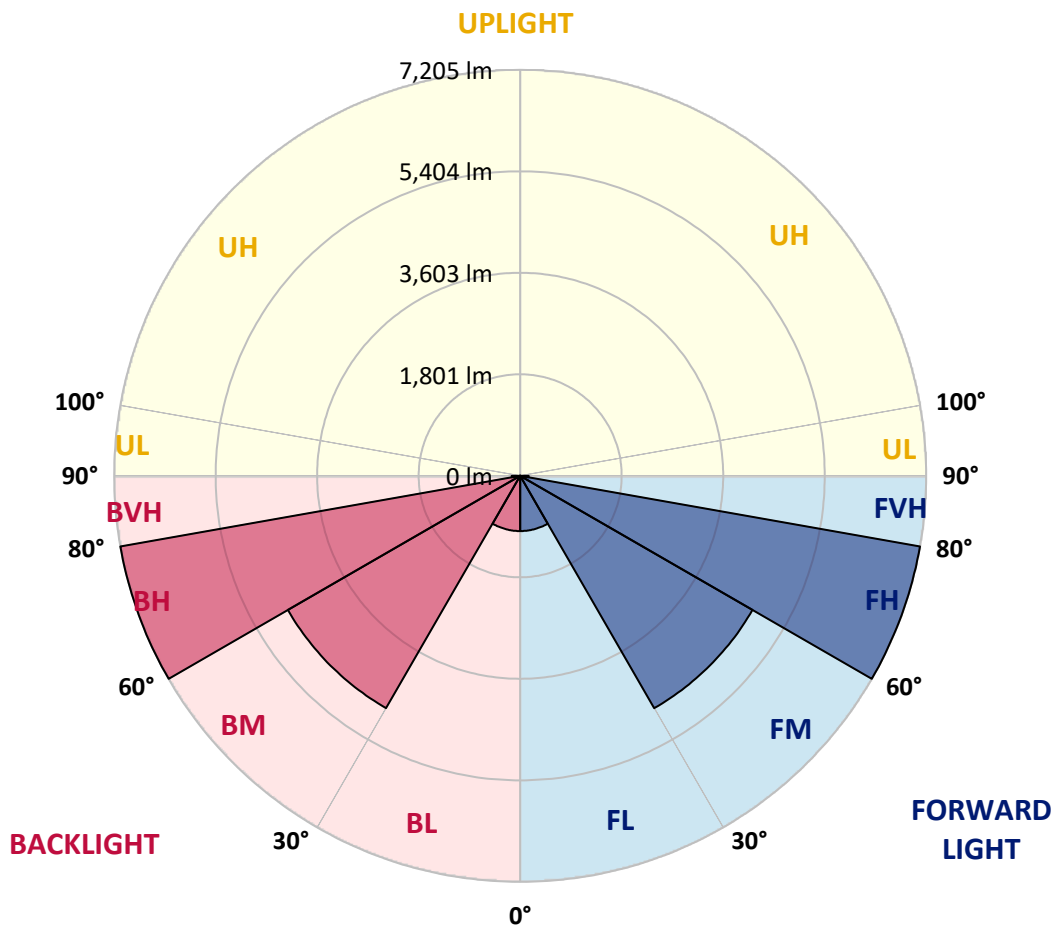
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	980.5	3.7			
FM (30°-60°)	4761.0	18.2			
FH (60°-80°)	7205.3	27.5			G3/7500
FVH (80°-90°)	149.7	0.6			G2/225
BL (0°-30°)	980.5	3.7	B2/1000		
BM (30°-60°)	4761.0	18.2	B3/5000		
BH (60°-80°)	7205.3	27.5	B5		G3/7500
BVH (80°-90°)	149.7	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2389.3	2389.3	2389.3	2389.3	2389.3	2389.3	2389.3	2389.3	2389.3	2389.3	2389.3
2.5°	2374.4	2381.2	2378.4	2373.0	2373.0	2368.9	2373.0	2375.7	2379.8	2382.5	2381.2
5°	2343.0	2348.5	2347.1	2343.0	2344.4	2340.3	2343.0	2347.1	2349.8	2351.2	2351.2
7.5°	2315.8	2321.3	2318.5	2311.7	2311.7	2307.6	2309.0	2313.1	2317.2	2318.5	2318.5
10°	2309.0	2314.4	2306.3	2295.4	2291.3	2285.9	2287.2	2291.3	2299.5	2303.6	2303.6
12.5°	2311.7	2315.8	2307.6	2291.3	2287.2	2281.8	2281.8	2285.9	2296.8	2302.2	2303.6
15°	2319.9	2324.0	2311.7	2294.0	2289.9	2285.9	2284.5	2289.9	2302.2	2311.7	2313.1
17.5°	2334.9	2339.0	2319.9	2295.4	2289.9	2291.3	2289.9	2294.0	2313.1	2330.8	2330.8
20°	2348.5	2351.2	2325.3	2295.4	2289.9	2291.3	2289.9	2298.1	2322.6	2347.1	2348.5
22.5°	2352.6	2355.3	2330.8	2304.9	2300.8	2302.2	2300.8	2309.0	2332.1	2356.7	2356.7
25°	2353.9	2358.0	2339.0	2318.5	2325.3	2328.1	2325.3	2326.7	2344.4	2366.2	2364.8
27.5°	2374.4	2379.8	2362.1	2344.4	2348.5	2347.1	2351.2	2355.3	2368.9	2390.7	2385.2
30°	2416.6	2420.6	2405.7	2388.0	2385.2	2375.7	2388.0	2401.6	2416.6	2435.6	2431.5
32.5°	2486.0	2494.2	2475.1	2456.0	2443.8	2438.3	2447.9	2471.0	2491.4	2511.9	2503.7
35°	2601.7	2607.2	2589.5	2554.1	2532.3	2532.3	2540.4	2570.4	2603.1	2628.9	2619.4
37.5°	2765.1	2771.9	2740.6	2698.4	2665.7	2665.7	2676.6	2707.9	2756.9	2793.7	2780.1
40°	2963.9	2973.4	2933.9	2890.3	2859.0	2853.6	2867.2	2902.6	2948.9	2995.2	2980.2
42.5°	3203.5	3214.4	3162.6	3124.5	3100.0	3100.0	3106.8	3139.5	3181.7	3238.9	3234.8
45°	3509.8	3528.9	3458.1	3419.9	3396.8	3402.2	3406.3	3434.9	3473.0	3538.4	3535.7
47.5°	3874.7	3893.7	3818.8	3779.4	3775.3	3801.1	3784.8	3805.2	3825.6	3900.5	3878.7
50°	4288.5	4321.2	4269.5	4266.8	4274.9	4322.6	4284.5	4295.3	4272.2	4319.9	4291.3
52.5°	4795.0	4842.6	4833.1	4849.5	4940.7	5038.7	4951.6	4913.4	4826.3	4841.3	4790.9
55°	5409.0	5481.2	5494.8	5592.8	5799.7	5999.9	5814.7	5660.9	5475.7	5441.7	5388.6
57.5°	6107.4	6164.6	6230.0	6430.1	6816.7	7172.1	6816.7	6476.4	6185.0	6115.6	6066.6
60°	6858.9	6929.7	6992.4	7287.8	7862.3	8362.0	7851.4	7310.9	6925.7	6831.7	6750.0
62.5°	7666.3	7757.5	7801.1	8129.2	8799.0	9395.3	8808.5	8153.7	7726.2	7625.4	7543.7
65°	8440.9	8515.8	8564.8	8914.7	9554.6	10152.3	9598.2	8952.8	8513.1	8381.0	8315.7
67.5°	8801.7	8842.6	8962.4	9358.5	10033.8	10715.9	10148.2	9400.8	8909.3	8677.8	8680.5
70°	8273.5	8190.4	8479.1	9113.5	10091.0	11061.7	10221.7	9094.4	8492.7	8116.9	8206.8
72.5°	6393.3	6250.4	6751.4	7836.5	9437.5	10841.2	9502.9	7897.7	7063.2	6300.7	6490.0
75°	3478.5	3316.5	4008.1	5380.4	7526.0	9396.7	7698.9	5534.3	4462.8	3452.6	3677.3
77.5°	981.6	920.3	1478.5	2603.1	4526.8	6597.5	4701.1	2660.3	1753.5	1040.1	1155.9
80°	300.9	291.3	394.8	784.2	1922.4	3159.9	1847.5	793.7	502.4	317.2	334.9
82.5°	178.3	163.4	196.0	285.9	490.1	992.5	476.5	298.2	239.6	160.7	174.3
85°	102.1	95.3	115.7	138.9	164.7	211.0	137.5	141.6	128.0	85.8	89.9
87.5°	42.2	38.1	44.9	43.6	38.1	49.0	36.8	43.6	51.7	34.0	31.3
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)