

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: P885092

Luminaire Tested: **NAV-SB6B-722-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885092
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-SB6B-722-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 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: 27549 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

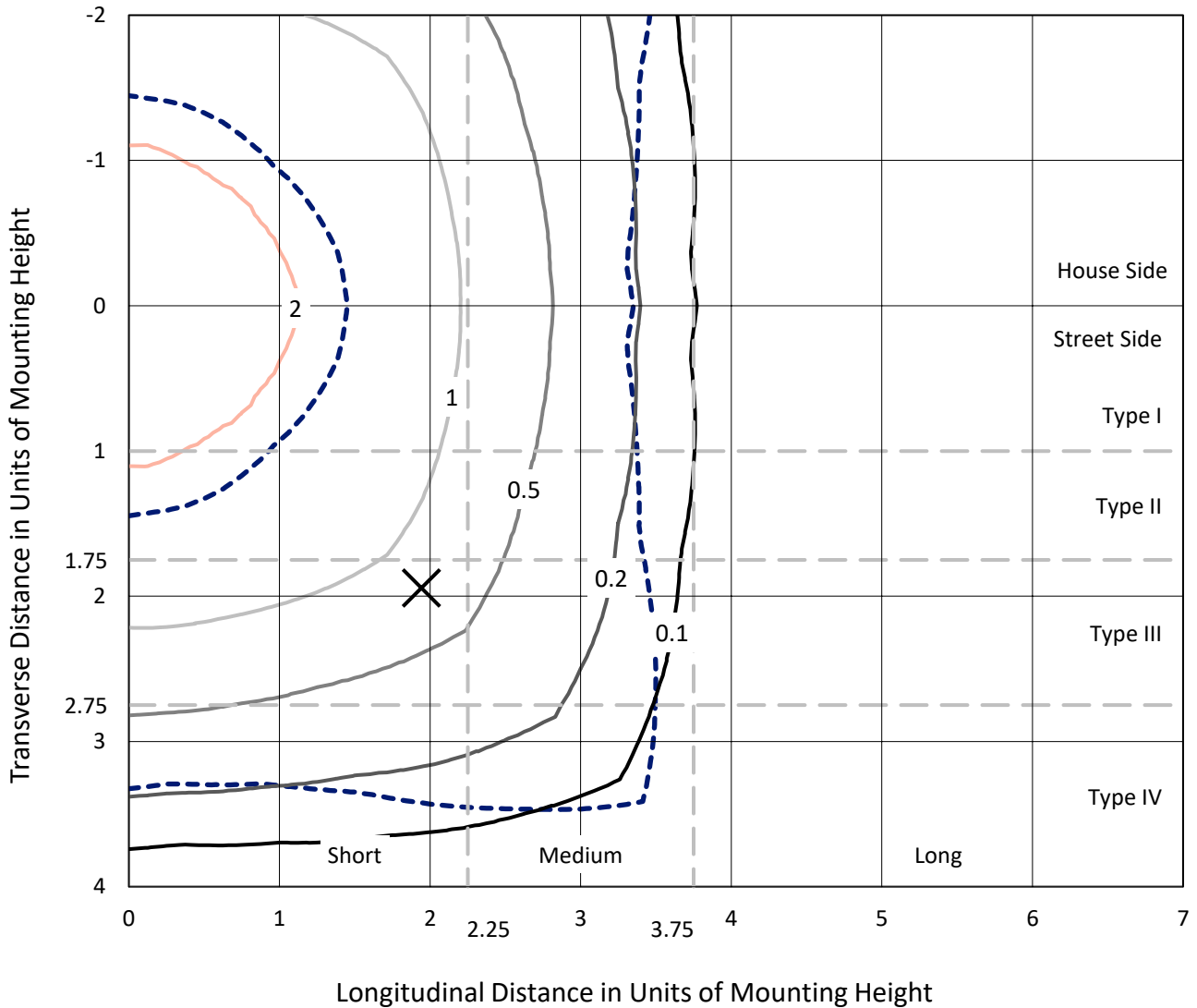
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

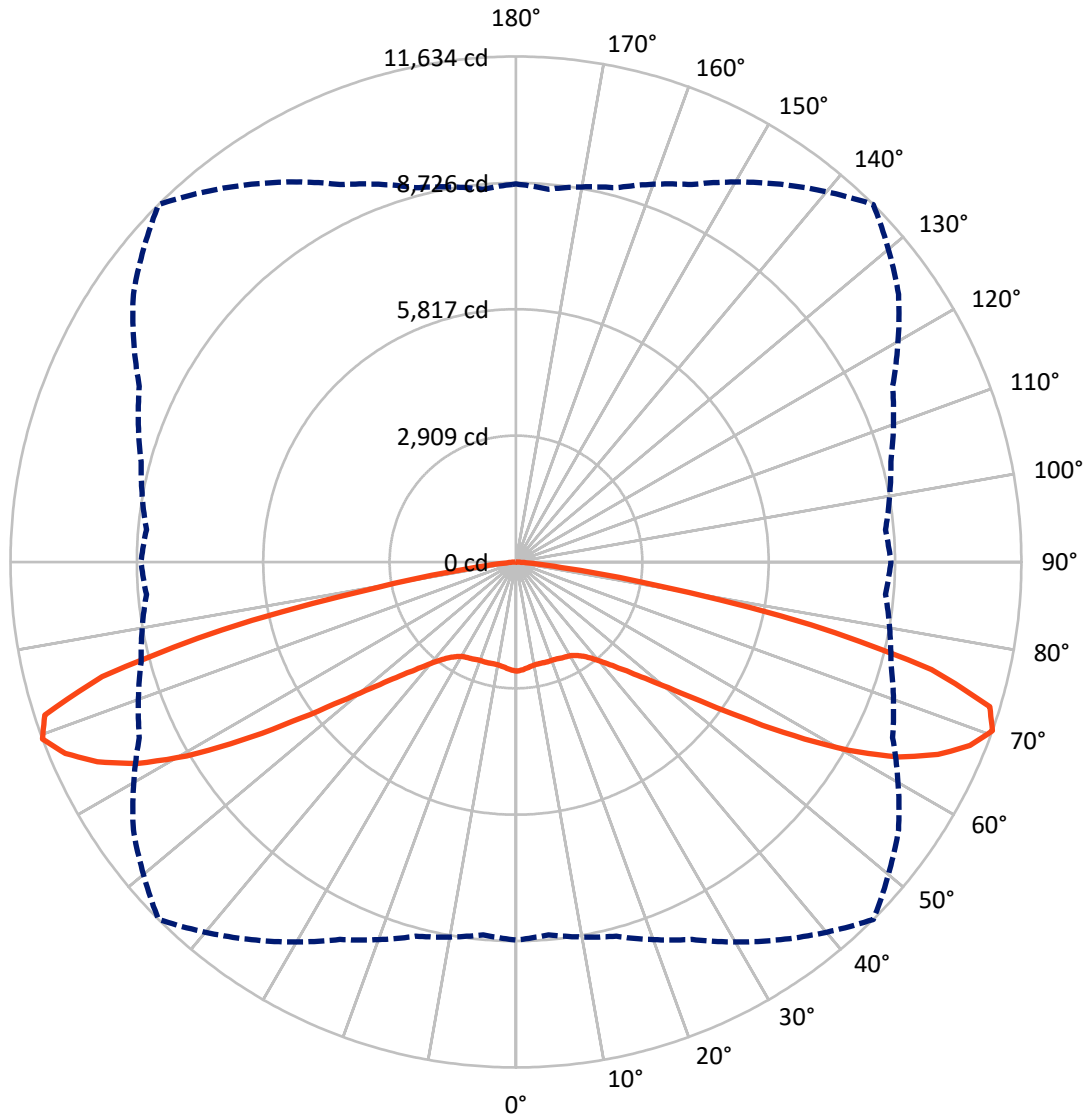
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	13774.5	0.0	13774.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13774.5	0.0	13774.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	27549.0	0.0	27549.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.8	0.8
10°-20°	686.4	2.5
20°-30°	1142.3	4.1
30°-40°	1727.5	6.3
40°-50°	2870.6	10.4
50°-60°	5416.8	19.7
60°-70°	9146.5	33.2
70°-80°	6010.2	21.8
80°-90°	314.9	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°	27549.0	100.0
0°-180°	27549.0	100.0

Coefficient of Utilization



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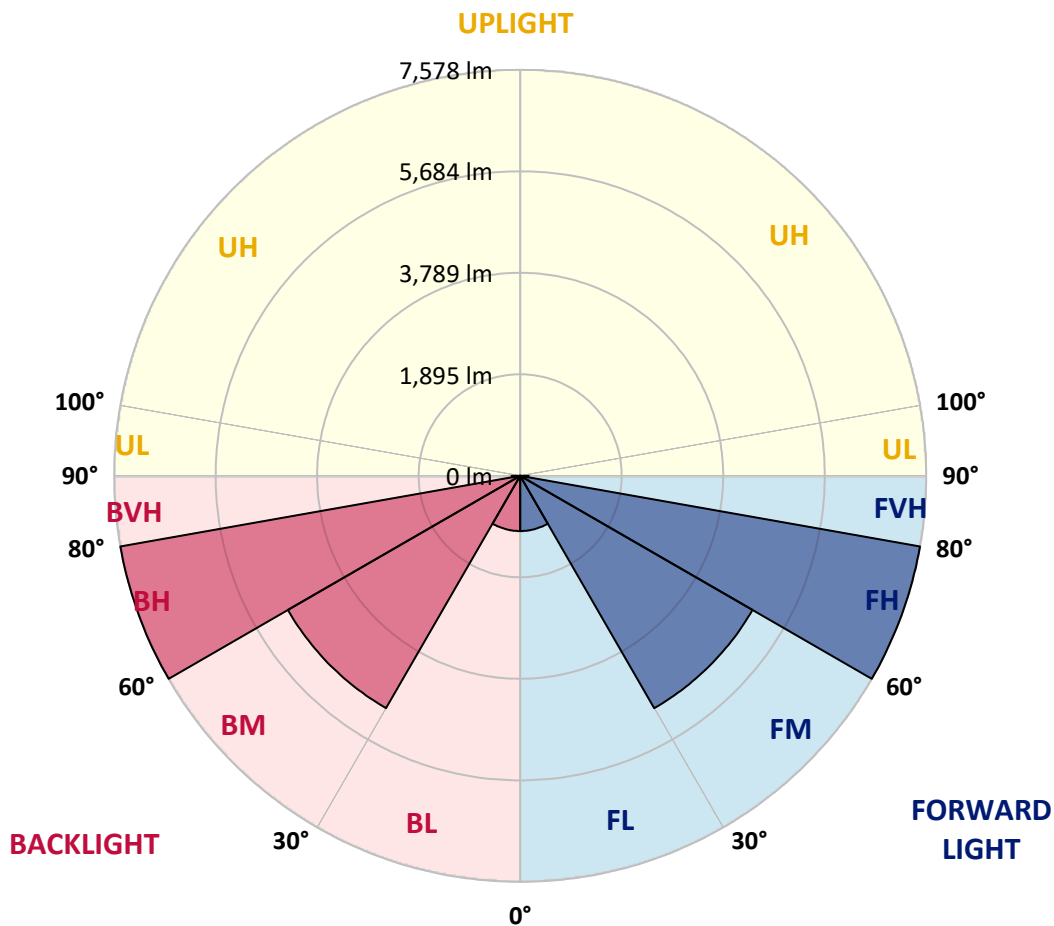
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1031.2	3.7			
FM (30°-60°)	5007.5	18.2			
FH (60°-80°)	7578.4	27.5			G4/12000
FVH (80°-90°)	157.4	0.6			G2/225
BL (0°-30°)	1031.2	3.7	B3/2500		
BM (30°-60°)	5007.5	18.2	B4/8500		
BH (60°-80°)	7578.4	27.5	B5		G4/12000
BVH (80°-90°)	157.4	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-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2513.0	2513.0	2513.0	2513.0	2513.0	2513.0	2513.0	2513.0	2513.0	2513.0	2513.0
2.5°	2497.3	2504.4	2501.6	2495.8	2495.8	2491.5	2495.8	2498.7	2503.0	2505.9	2504.4
5°	2464.3	2470.1	2468.6	2464.3	2465.8	2461.5	2464.3	2468.6	2471.5	2472.9	2472.9
7.5°	2435.7	2441.4	2438.6	2431.4	2431.4	2427.1	2428.5	2432.8	2437.1	2438.6	2438.6
10°	2428.5	2434.3	2425.7	2414.2	2409.9	2404.2	2405.6	2409.9	2418.5	2422.8	2422.8
12.5°	2431.4	2435.7	2427.1	2409.9	2405.6	2399.9	2399.9	2404.2	2415.7	2421.4	2422.8
15°	2440.0	2444.3	2431.4	2412.8	2408.5	2404.2	2402.8	2408.5	2421.4	2431.4	2432.8
17.5°	2455.7	2460.0	2440.0	2414.2	2408.5	2409.9	2408.5	2412.8	2432.8	2451.5	2451.5
20°	2470.1	2472.9	2445.7	2414.2	2408.5	2409.9	2408.5	2417.1	2442.9	2468.6	2470.1
22.5°	2474.4	2477.2	2451.5	2424.2	2419.9	2421.4	2419.9	2428.5	2452.9	2478.7	2478.7
25°	2475.8	2480.1	2460.0	2438.6	2445.7	2448.6	2445.7	2447.2	2465.8	2488.7	2487.2
27.5°	2497.3	2503.0	2484.4	2465.8	2470.1	2468.6	2472.9	2477.2	2491.5	2514.5	2508.7
30°	2541.7	2546.0	2530.2	2511.6	2508.7	2498.7	2511.6	2525.9	2541.7	2561.7	2557.4
32.5°	2614.7	2623.3	2603.2	2583.2	2570.3	2564.6	2574.6	2598.9	2620.4	2641.9	2633.3
35°	2736.4	2742.1	2723.5	2686.3	2663.4	2663.4	2672.0	2703.5	2737.8	2765.0	2755.0
37.5°	2908.2	2915.4	2882.5	2838.1	2803.7	2803.7	2815.2	2848.1	2899.6	2938.3	2924.0
40°	3117.3	3127.3	3085.8	3040.0	3007.0	3001.3	3015.6	3052.9	3101.5	3150.2	3134.5
42.5°	3369.3	3380.8	3326.4	3286.3	3260.5	3260.5	3267.6	3302.0	3346.4	3406.5	3402.2
45°	3691.5	3711.5	3637.1	3597.0	3572.6	3578.4	3582.7	3612.7	3652.8	3721.6	3718.7
47.5°	4075.3	4095.3	4016.5	3975.0	3970.7	3997.9	3980.7	4002.2	4023.7	4102.5	4079.5
50°	4510.6	4544.9	4490.5	4487.6	4496.2	4546.4	4506.3	4517.7	4493.4	4543.5	4513.4
52.5°	5043.2	5093.3	5083.3	5100.5	5196.4	5299.5	5207.9	5167.8	5076.2	5091.9	5038.9
55°	5689.0	5764.9	5779.2	5882.3	6100.0	6310.5	6115.7	5953.9	5759.2	5723.4	5667.5
57.5°	6423.6	6483.7	6552.5	6763.0	7169.6	7543.4	7169.6	6811.7	6505.2	6432.2	6380.6
60°	7214.0	7288.5	7354.4	7665.1	8269.4	8794.9	8257.9	7689.4	7284.2	7185.4	7099.5
62.5°	8063.2	8159.1	8204.9	8550.0	9254.5	9881.7	9264.5	8575.8	8126.2	8020.2	7934.3
65°	8877.9	8956.7	9008.2	9376.2	10049.2	10677.8	10095.1	9416.3	8953.8	8814.9	8746.2
67.5°	9257.4	9300.3	9426.3	9843.0	10553.3	11270.7	10673.5	9887.4	9370.5	9127.1	9129.9
70°	8701.8	8614.4	8918.0	9585.3	10613.4	11634.4	10750.9	9565.2	8932.3	8537.1	8631.6
72.5°	6724.3	6574.0	7100.9	8242.1	9926.1	11402.4	9994.8	8306.6	7428.8	6626.9	6826.0
75°	3658.6	3488.2	4215.6	5659.0	7915.7	9883.1	8097.5	5820.8	4693.8	3631.4	3867.6
77.5°	1032.4	968.0	1555.1	2737.8	4761.1	6939.1	4944.4	2798.0	1844.3	1094.0	1215.7
80°	316.5	306.4	415.3	824.8	2021.9	3323.5	1943.1	834.8	528.4	333.6	352.3
82.5°	187.6	171.8	206.2	300.7	515.5	1043.9	501.2	313.6	252.0	169.0	183.3
85°	107.4	100.2	121.7	146.1	173.3	221.9	144.6	148.9	134.6	90.2	94.5
87.5°	44.4	40.1	47.3	45.8	40.1	51.5	38.7	45.8	54.4	35.8	32.9
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)