

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: P883902

Luminaire Tested: **NAV-SB4C-722-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883902
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-SB4C-722-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24464 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

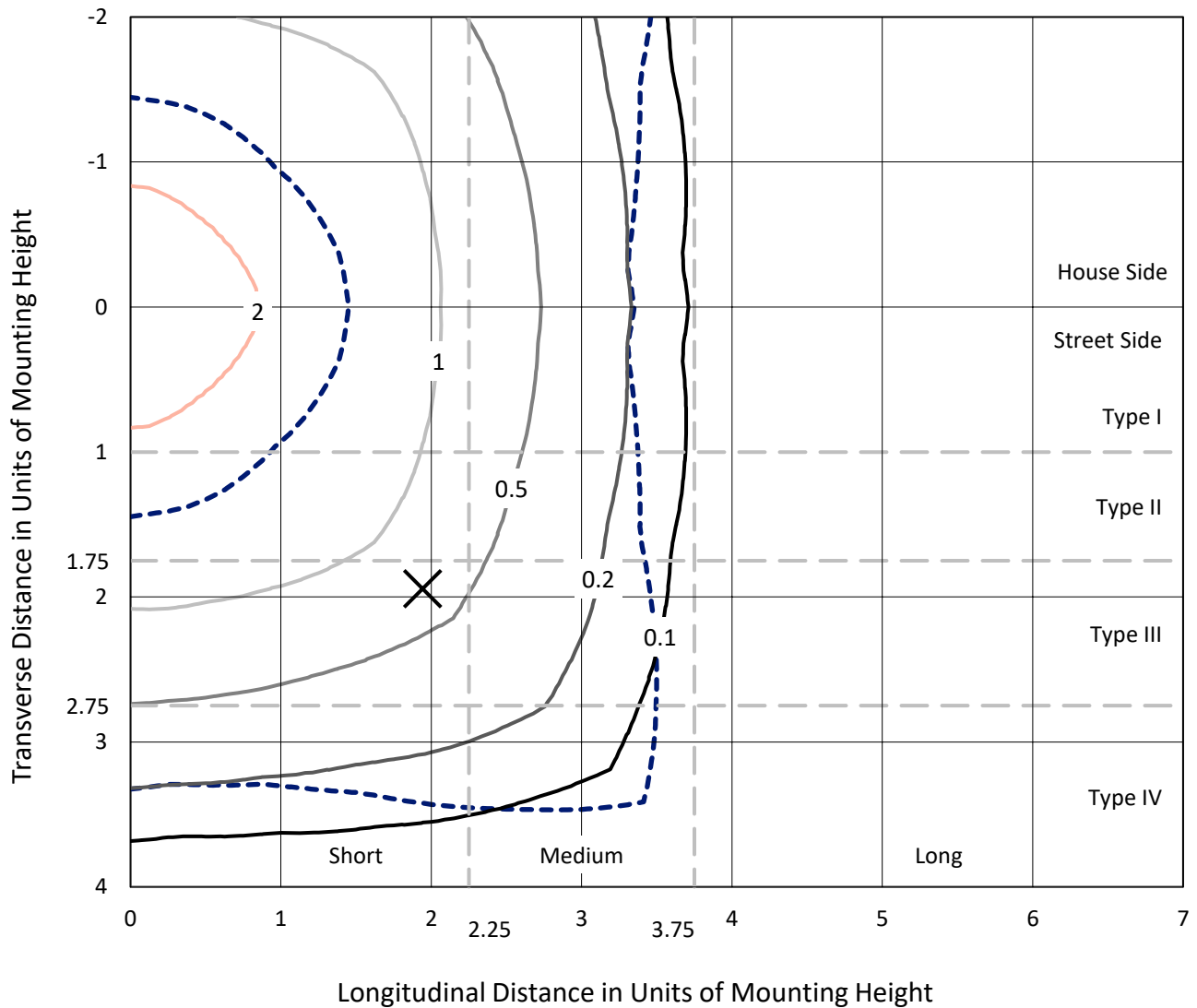
Input Watts (W): 200.7
Input Voltage (V): 120.0
Input Current (Ain): 1.714
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

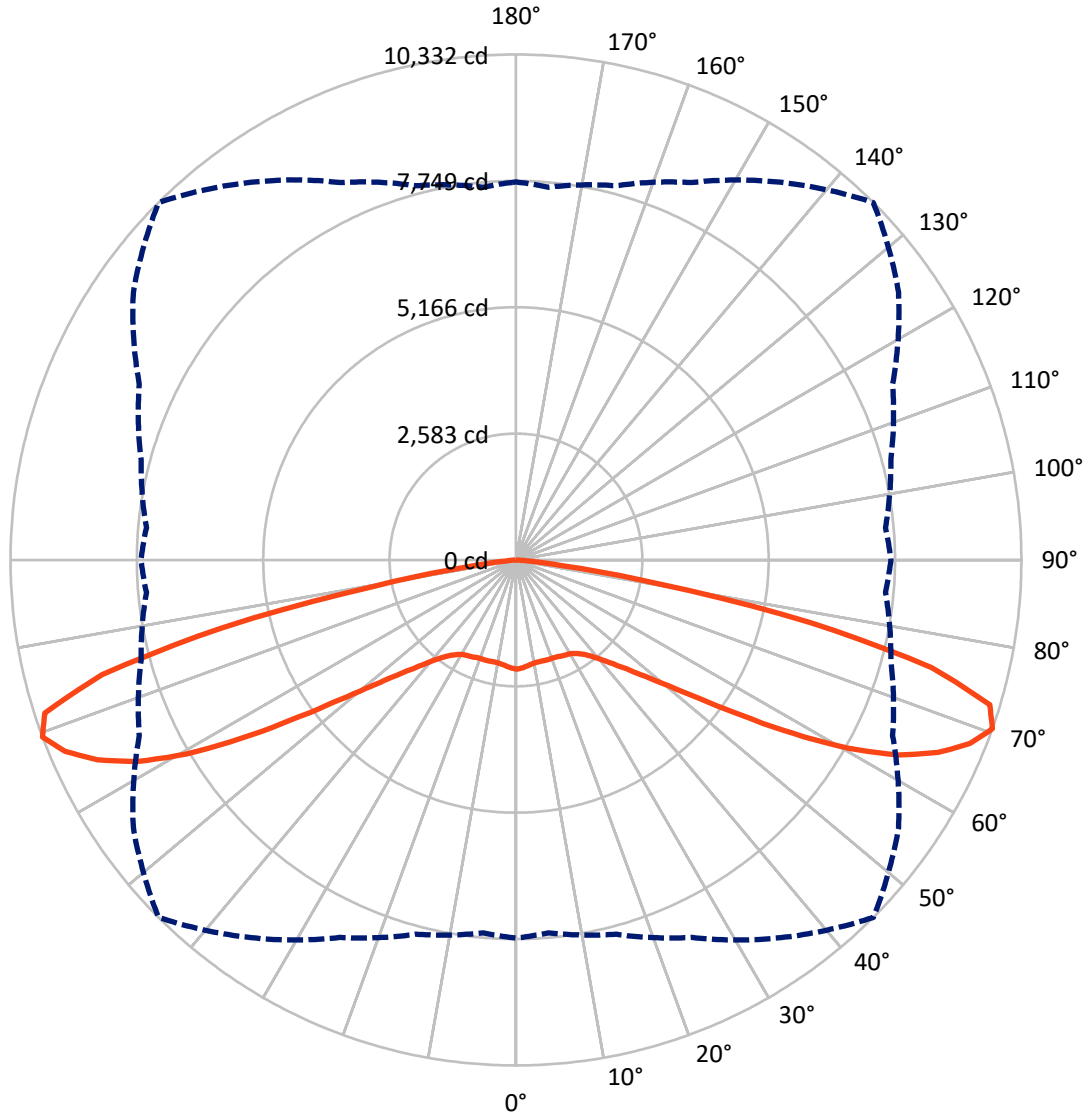
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	12232.0	0.0	12232.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12232.0	0.0	12232.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	24464.0	0.0	24464.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.6	0.8
10°-20°	609.5	2.5
20°-30°	1014.4	4.1
30°-40°	1534.0	6.3
40°-50°	2549.2	10.4
50°-60°	4810.2	19.7
60°-70°	8122.3	33.2
70°-80°	5337.2	21.8
80°-90°	279.6	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°	24464.0	100.0
0°-180°	24464.0	100.0

Coefficient of Utilization



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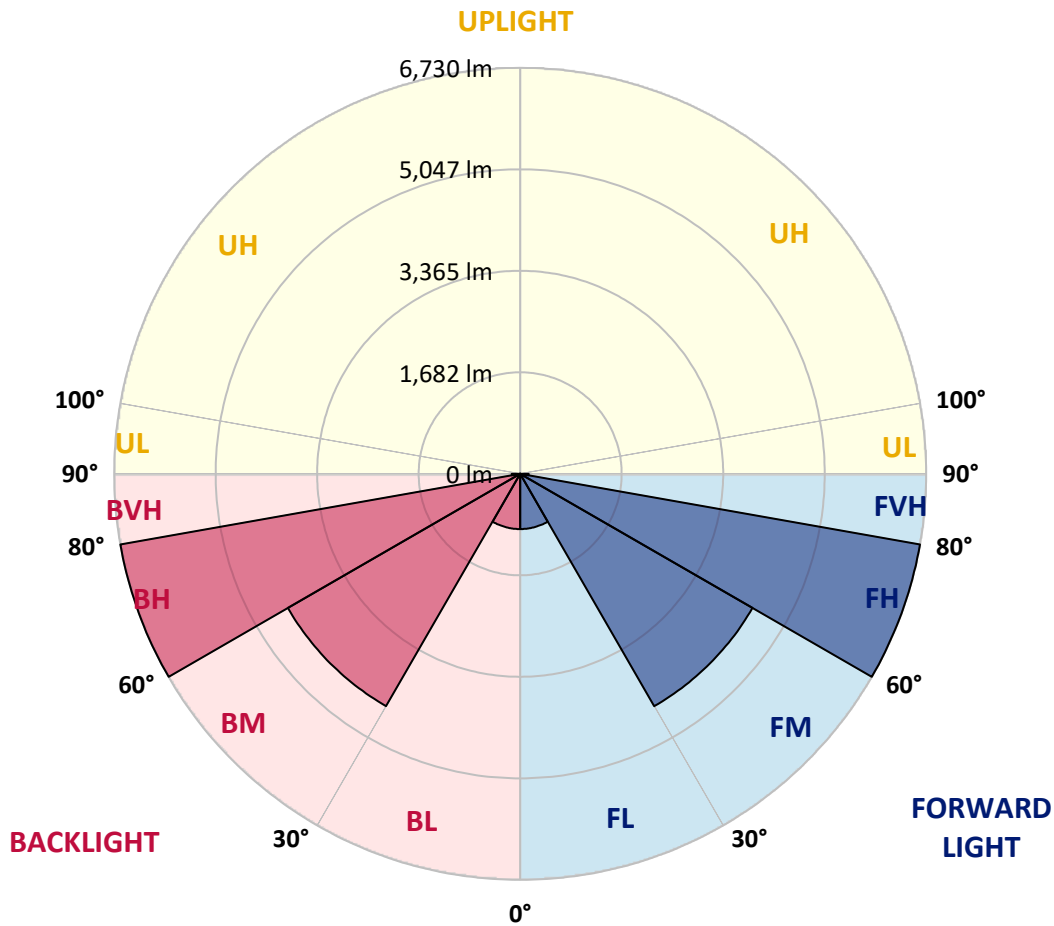
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	915.8	3.7			
FM (30°-60°)	4446.7	18.2			
FH (60°-80°)	6729.7	27.5			G3/7500
FVH (80°-90°)	139.8	0.6			G2/225
BL (0°-30°)	915.8	3.7	B2/1000		
BM (30°-60°)	4446.7	18.2	B3/5000		
BH (60°-80°)	6729.7	27.5	B5		G3/7500
BVH (80°-90°)	139.8	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°	2231.6	2231.6	2231.6	2231.6	2231.6	2231.6	2231.6	2231.6	2231.6	2231.6	2231.6
2.5°	2217.6	2224.0	2221.4	2216.4	2216.4	2212.5	2216.4	2218.9	2222.7	2225.3	2224.0
5°	2188.4	2193.5	2192.2	2188.4	2189.6	2185.8	2188.4	2192.2	2194.7	2196.0	2196.0
7.5°	2162.9	2168.0	2165.5	2159.1	2159.1	2155.3	2156.6	2160.4	2164.2	2165.5	2165.5
10°	2156.6	2161.7	2154.0	2143.9	2140.1	2135.0	2136.2	2140.1	2147.7	2151.5	2151.5
12.5°	2159.1	2162.9	2155.3	2140.1	2136.2	2131.2	2131.2	2135.0	2145.1	2150.2	2151.5
15°	2166.8	2170.6	2159.1	2142.6	2138.8	2135.0	2133.7	2138.8	2150.2	2159.1	2160.4
17.5°	2180.7	2184.6	2166.8	2143.9	2138.8	2140.1	2138.8	2142.6	2160.4	2176.9	2176.9
20°	2193.5	2196.0	2171.8	2143.9	2138.8	2140.1	2138.8	2146.4	2169.3	2192.2	2193.5
22.5°	2197.3	2199.8	2176.9	2152.8	2149.0	2150.2	2149.0	2156.6	2178.2	2201.1	2201.1
25°	2198.5	2202.4	2184.6	2165.5	2171.8	2174.4	2171.8	2173.1	2189.6	2210.0	2208.7
27.5°	2217.6	2222.7	2206.2	2189.6	2193.5	2192.2	2196.0	2199.8	2212.5	2232.9	2227.8
30°	2257.0	2260.9	2246.9	2230.3	2227.8	2218.9	2230.3	2243.1	2257.0	2274.8	2271.0
32.5°	2321.9	2329.5	2311.7	2293.9	2282.5	2277.4	2286.3	2307.9	2327.0	2346.1	2338.4
35°	2430.0	2435.1	2418.5	2385.5	2365.1	2365.1	2372.8	2400.7	2431.2	2455.4	2446.5
37.5°	2582.6	2588.9	2559.7	2520.3	2489.7	2489.7	2499.9	2529.2	2574.9	2609.3	2596.6
40°	2768.2	2777.1	2740.2	2699.5	2670.3	2665.2	2677.9	2711.0	2754.2	2797.5	2783.5
42.5°	2992.0	3002.2	2953.9	2918.3	2895.4	2895.4	2901.7	2932.2	2971.7	3025.1	3021.3
45°	3278.1	3295.9	3229.8	3194.2	3172.6	3177.7	3181.5	3208.2	3243.8	3304.8	3302.3
47.5°	3618.9	3636.7	3566.8	3529.9	3526.1	3550.2	3535.0	3554.0	3573.1	3643.1	3622.7
50°	4005.5	4036.0	3987.7	3985.1	3992.7	4037.2	4001.6	4011.8	3990.2	4034.7	4008.0
52.5°	4478.5	4523.0	4514.1	4529.3	4614.5	4706.1	4624.7	4589.1	4507.7	4521.7	4474.7
55°	5052.0	5119.3	5132.1	5223.6	5416.9	5603.8	5430.9	5287.2	5114.3	5082.5	5032.9
57.5°	5704.3	5757.7	5818.7	6005.6	6366.8	6698.6	6366.8	6048.9	5776.8	5711.9	5666.1
60°	6406.2	6472.3	6530.8	6806.7	7343.3	7810.0	7333.2	6828.3	6468.5	6380.7	6304.5
62.5°	7160.2	7245.4	7286.1	7592.6	8218.2	8775.1	8227.1	7615.4	7216.2	7122.1	7045.8
65°	7883.7	7953.7	7999.5	8326.3	8923.9	9482.1	8964.6	8361.9	7951.1	7827.8	7766.8
67.5°	8220.7	8258.9	8370.8	8740.8	9371.5	10008.5	9478.3	8780.2	8321.2	8105.0	8107.5
70°	7727.3	7649.8	7919.4	8511.9	9424.9	10331.5	9547.0	8494.1	7932.1	7581.1	7665.0
72.5°	5971.3	5837.8	6305.7	7319.2	8814.5	10125.5	8875.6	7376.4	6596.9	5884.8	6061.6
75°	3248.9	3097.6	3743.5	5025.3	7029.3	8776.4	7190.7	5168.9	4168.2	3224.7	3434.5
77.5°	916.8	859.6	1380.9	2431.2	4228.0	6162.0	4390.7	2484.7	1637.8	971.5	1079.6
80°	281.0	272.1	368.8	732.4	1795.5	2951.3	1725.5	741.3	469.2	296.3	312.8
82.5°	166.6	152.6	183.1	267.0	457.8	927.0	445.1	278.5	223.8	150.0	162.8
85°	95.4	89.0	108.1	129.7	153.9	197.1	128.4	132.2	119.5	80.1	83.9
87.5°	39.4	35.6	42.0	40.7	35.6	45.8	34.3	40.7	48.3	31.8	29.2
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)