

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: P883392

Luminaire Tested: **NAV-SB3D-722-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883392
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-SB3D-722-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24603 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

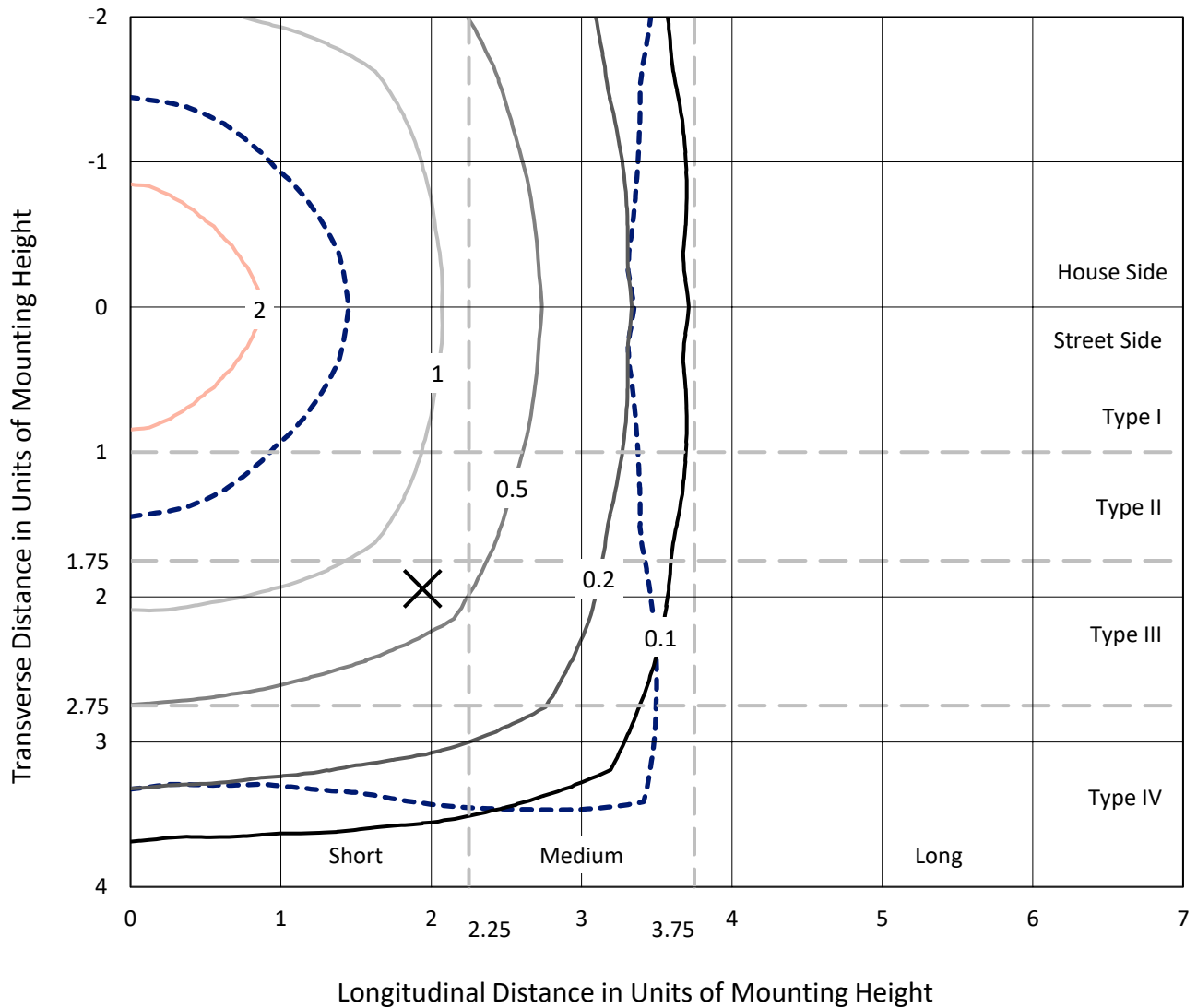
Input Watts (W): 218.1
Input Voltage (V): 120.0
Input Current (Ain): 1.84
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

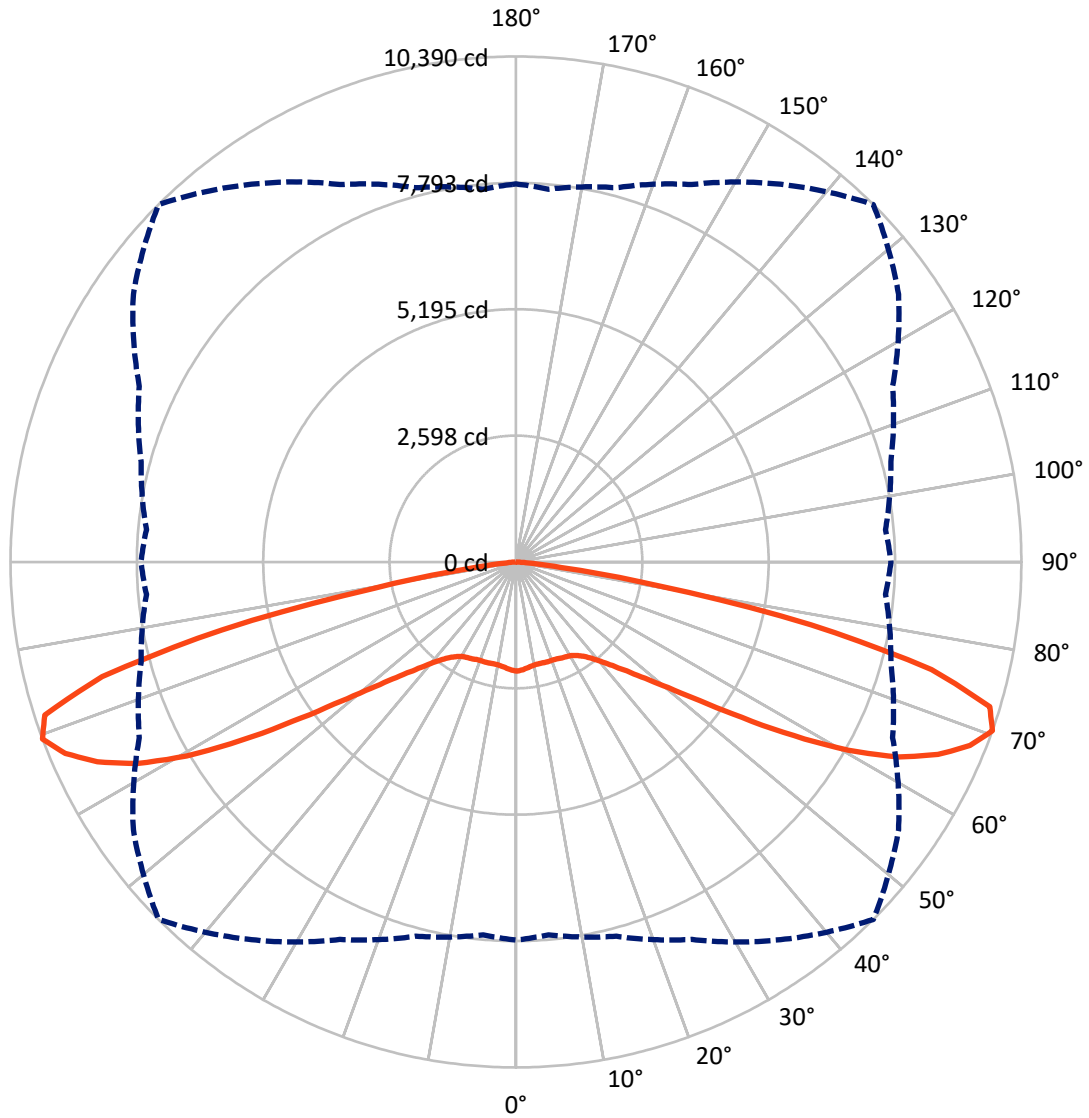
✕ Max cd
 - - - 1/2 Max cd



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	12301.5	0.0	12301.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12301.5	0.0	12301.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24603.0	0.0	24603.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.8	0.8
10°-20°	613.0	2.5
20°-30°	1020.1	4.1
30°-40°	1542.7	6.3
40°-50°	2563.7	10.4
50°-60°	4837.6	19.7
60°-70°	8168.4	33.2
70°-80°	5367.5	21.8
80°-90°	281.2	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°	24603.0	100.0
0°-180°	24603.0	100.0

Coefficient of Utilization



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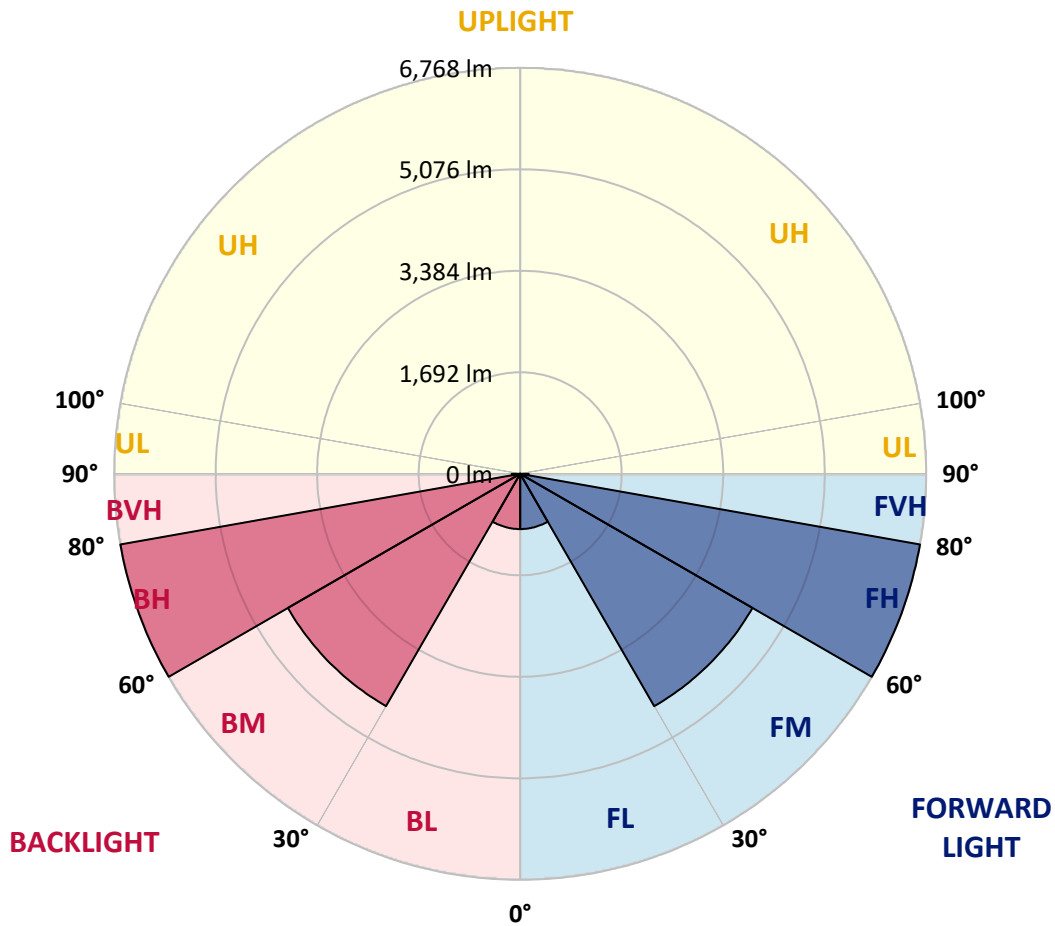
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	921.0	3.7			
FM (30°-60°)	4472.0	18.2			
FH (60°-80°)	6768.0	27.5			G3/7500
FVH (80°-90°)	140.6	0.6			G2/225
BL (0°-30°)	921.0	3.7	B2/1000		
BM (30°-60°)	4472.0	18.2	B3/5000		
BH (60°-80°)	6768.0	27.5	B5		G3/7500
BVH (80°-90°)	140.6	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°	2244.3	2244.3	2244.3	2244.3	2244.3	2244.3	2244.3	2244.3	2244.3	2244.3	2244.3
2.5°	2230.2	2236.6	2234.1	2228.9	2228.9	2225.1	2228.9	2231.5	2235.3	2237.9	2236.6
5°	2200.8	2205.9	2204.6	2200.8	2202.1	2198.3	2200.8	2204.6	2207.2	2208.5	2208.5
7.5°	2175.2	2180.3	2177.8	2171.4	2171.4	2167.6	2168.8	2172.7	2176.5	2177.8	2177.8
10°	2168.8	2174.0	2166.3	2156.1	2152.2	2147.1	2148.4	2152.2	2159.9	2163.7	2163.7
12.5°	2171.4	2175.2	2167.6	2152.2	2148.4	2143.3	2143.3	2147.1	2157.3	2162.4	2163.7
15°	2179.1	2182.9	2171.4	2154.8	2150.9	2147.1	2145.8	2150.9	2162.4	2171.4	2172.7
17.5°	2193.1	2197.0	2179.1	2156.1	2150.9	2152.2	2150.9	2154.8	2172.7	2189.3	2189.3
20°	2205.9	2208.5	2184.2	2156.1	2150.9	2152.2	2150.9	2158.6	2181.6	2204.6	2205.9
22.5°	2209.8	2212.3	2189.3	2165.0	2161.2	2162.4	2161.2	2168.8	2190.6	2213.6	2213.6
25°	2211.0	2214.9	2197.0	2177.8	2184.2	2186.7	2184.2	2185.5	2202.1	2222.5	2221.3
27.5°	2230.2	2235.3	2218.7	2202.1	2205.9	2204.6	2208.5	2212.3	2225.1	2245.6	2240.5
30°	2269.9	2273.7	2259.6	2243.0	2240.5	2231.5	2243.0	2255.8	2269.9	2287.8	2283.9
32.5°	2335.1	2342.8	2324.9	2307.0	2295.4	2290.3	2299.3	2321.0	2340.2	2359.4	2351.7
35°	2443.8	2448.9	2432.3	2399.0	2378.6	2378.6	2386.2	2414.4	2445.1	2469.4	2460.4
37.5°	2597.2	2603.6	2574.2	2534.6	2503.9	2503.9	2514.1	2543.5	2589.6	2624.1	2611.3
40°	2783.9	2792.9	2755.8	2714.9	2685.5	2680.4	2693.1	2726.4	2769.9	2813.4	2799.3
42.5°	3009.0	3019.2	2970.6	2934.8	2911.8	2911.8	2918.2	2948.9	2988.5	3042.3	3038.4
45°	3296.7	3314.6	3248.1	3212.3	3190.6	3195.7	3199.6	3226.4	3262.2	3323.6	3321.0
47.5°	3639.5	3657.4	3587.0	3549.9	3546.1	3570.4	3555.1	3574.2	3593.4	3663.8	3643.3
50°	4028.2	4058.9	4010.3	4007.8	4015.4	4060.2	4024.4	4034.6	4012.9	4057.6	4030.8
52.5°	4503.9	4548.7	4539.7	4555.1	4640.8	4732.8	4651.0	4615.2	4533.3	4547.4	4500.1
55°	5080.7	5148.4	5161.2	5253.3	5447.7	5635.7	5461.7	5317.2	5143.3	5111.4	5061.5
57.5°	5736.7	5790.4	5851.8	6039.8	6402.9	6736.7	6402.9	6083.2	5809.6	5744.4	5698.3
60°	6442.6	6509.1	6567.9	6845.4	7385.1	7854.4	7374.8	6867.1	6505.2	6417.0	6340.3
62.5°	7200.9	7286.6	7327.5	7635.7	8264.9	8825.0	8273.8	7658.7	7257.2	7162.5	7085.8
65°	7928.5	7998.9	8044.9	8373.6	8974.6	9536.0	9015.5	8409.4	7996.3	7872.3	7810.9
67.5°	8267.4	8305.8	8418.3	8790.5	9424.7	10065.4	9532.2	8830.1	8368.4	8151.1	8153.6
70°	7771.3	7693.2	7964.3	8560.3	9478.4	10390.2	9601.2	8542.4	7977.1	7624.2	7708.6
72.5°	6005.2	5871.0	6341.6	7360.8	8864.6	10183.1	8926.0	7418.3	6634.4	5918.3	6096.0
75°	3267.3	3115.1	3764.8	5053.8	7069.2	8826.3	7231.6	5198.3	4191.9	3243.0	3454.0
77.5°	922.0	864.5	1388.8	2445.1	4252.0	6197.1	4415.7	2498.8	1647.1	977.0	1085.7
80°	282.6	273.7	370.9	736.6	1805.7	2968.1	1735.3	745.5	471.9	298.0	314.6
82.5°	167.5	153.5	184.1	268.5	460.4	932.2	447.6	280.1	225.1	150.9	163.7
85°	95.9	89.5	108.7	130.4	154.7	198.2	129.2	133.0	120.2	80.6	84.4
87.5°	39.6	35.8	42.2	40.9	35.8	46.0	34.5	40.9	48.6	32.0	29.4
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)