

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: P964614

Luminaire Tested: **NAV-SB3C-750-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-750-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24647.1 lumens
Efficiency: N/A
Efficacy: 165.3 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): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



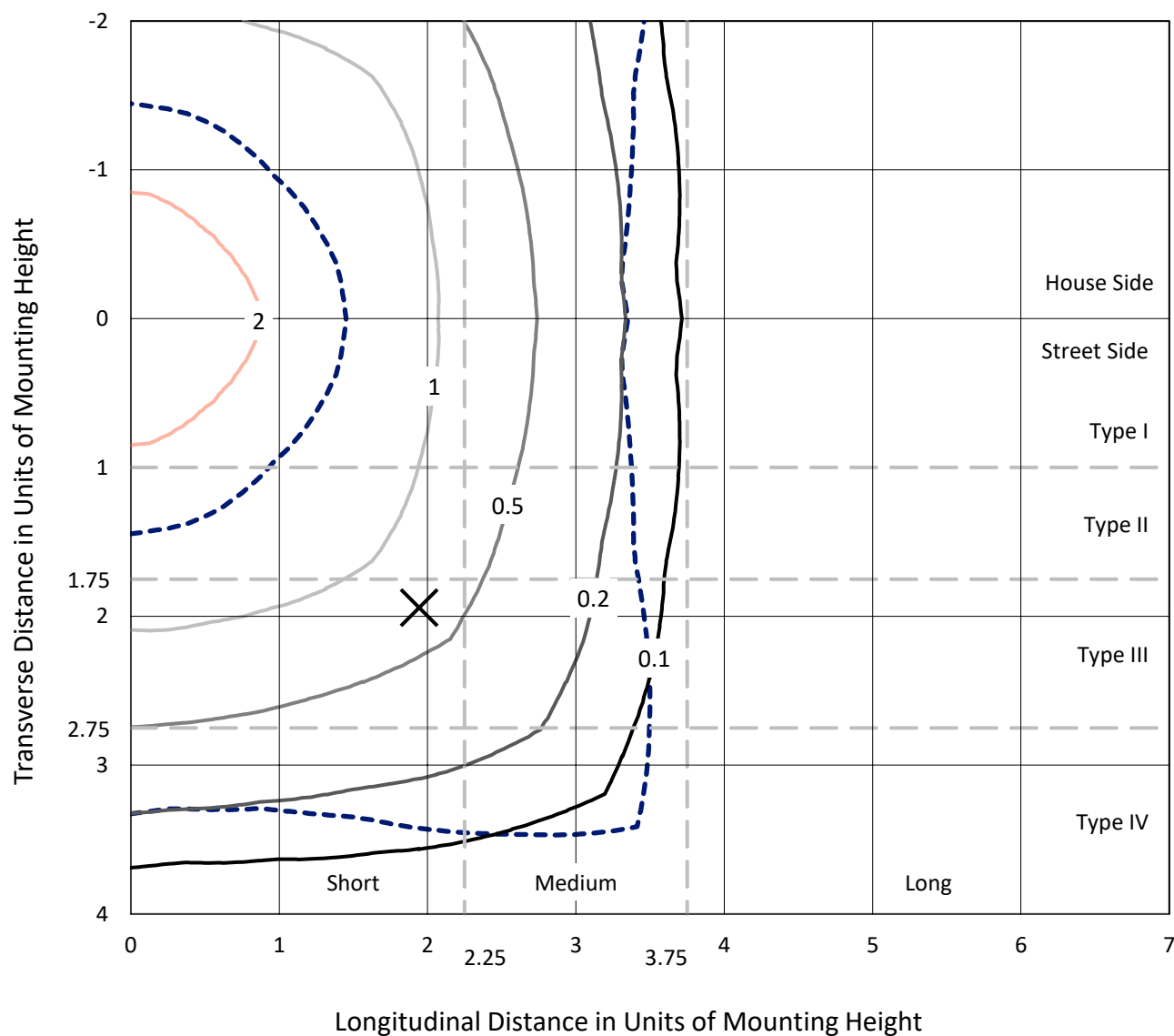
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

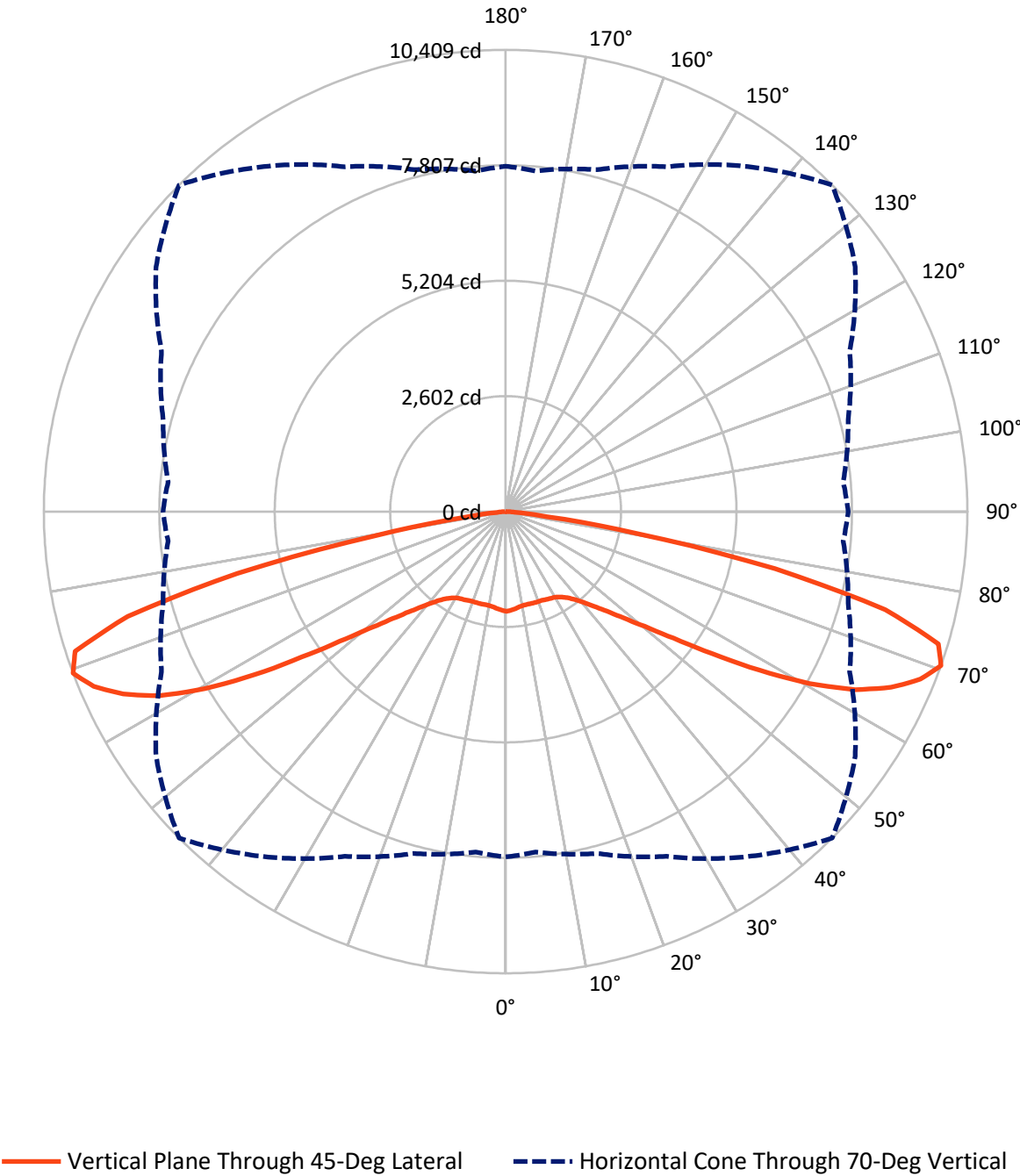


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12323.6	0.0	12323.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12323.6	0.0	12323.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	24647.1	0.0	24647.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.1	0.8
10°-20°	614.1	2.5
20°-30°	1022.0	4.1
30°-40°	1545.5	6.3
40°-50°	2568.3	10.4
50°-60°	4846.2	19.7
60°-70°	8183.1	33.2
70°-80°	5377.1	21.8
80°-90°	281.7	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°	24647.1	100.0
0°-180°	24647.1	100.0

Coefficient of Utilization



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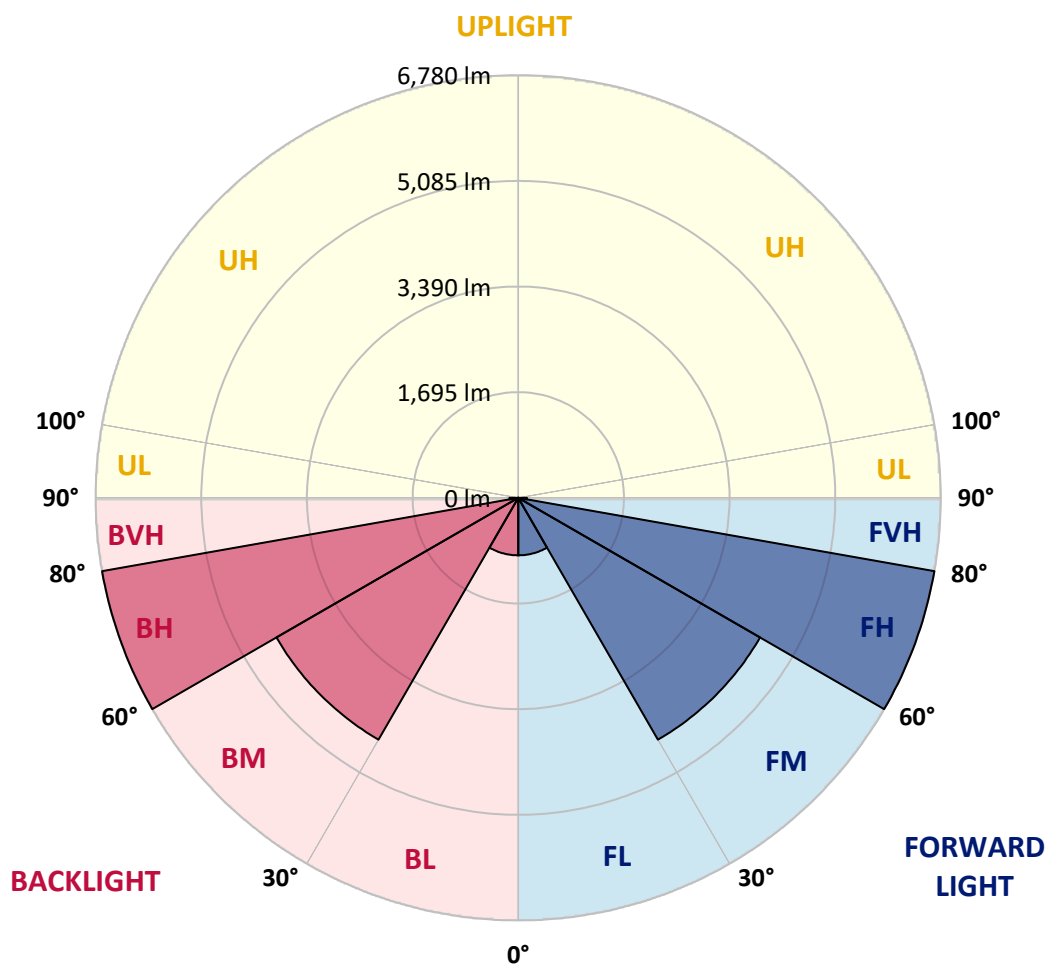
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	922.6	3.7			
FM	(30°-60°)	4480.0	18.2			
FH	(60°-80°)	6780.1	27.5			G3/7500
FVH	(80°-90°)	140.8	0.6			G2/225
BL	(0°-30°)	922.6	3.7	B2/1000		
BM	(30°-60°)	4480.0	18.2	B3/5000		
BH	(60°-80°)	6780.1	27.5	B5		G3/7500
BVH	(80°-90°)	140.8	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°	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3
2.5°	2234.2	2240.6	2238.1	2233.0	2233.0	2229.1	2233.0	2235.5	2239.3	2241.9	2240.6
5°	2204.8	2209.9	2208.6	2204.8	2206.0	2202.2	2204.8	2208.6	2211.1	2212.5	2212.5
7.5°	2179.1	2184.3	2181.7	2175.3	2175.3	2171.5	2172.7	2176.6	2180.4	2181.7	2181.7
10°	2172.7	2177.8	2170.1	2159.9	2156.1	2151.0	2152.2	2156.1	2163.8	2167.6	2167.6
12.5°	2175.3	2179.1	2171.5	2156.1	2152.2	2147.1	2147.1	2151.0	2161.2	2166.3	2167.6
15°	2182.9	2186.8	2175.3	2158.6	2154.8	2151.0	2149.6	2154.8	2166.3	2175.3	2176.6
17.5°	2197.1	2200.9	2182.9	2159.9	2154.8	2156.1	2154.8	2158.6	2176.6	2193.2	2193.2
20°	2209.9	2212.5	2188.1	2159.9	2154.8	2156.1	2154.8	2162.4	2185.5	2208.6	2209.9
22.5°	2213.7	2216.3	2193.2	2168.9	2165.0	2166.3	2165.0	2172.7	2194.5	2217.6	2217.6
25°	2215.0	2218.8	2200.9	2181.7	2188.1	2190.6	2188.1	2189.4	2206.0	2226.5	2225.3
27.5°	2234.2	2239.3	2222.7	2206.0	2209.9	2208.6	2212.5	2216.3	2229.1	2249.6	2244.4
30°	2274.0	2277.8	2263.7	2247.0	2244.4	2235.5	2247.0	2259.8	2274.0	2291.9	2288.0
32.5°	2339.3	2346.9	2329.0	2311.1	2299.6	2294.5	2303.4	2325.2	2344.4	2363.6	2356.0
35°	2448.2	2453.3	2436.6	2403.3	2382.8	2382.8	2390.5	2418.7	2449.4	2473.8	2464.8
37.5°	2601.9	2608.3	2578.8	2539.1	2508.4	2508.4	2518.6	2548.0	2594.2	2628.8	2616.0
40°	2788.9	2797.9	2760.7	2719.7	2690.3	2685.2	2698.0	2731.3	2774.9	2818.4	2804.3
42.5°	3014.4	3024.7	2976.0	2940.1	2917.0	2917.0	2923.4	2954.2	2993.9	3047.7	3043.8
45°	3302.7	3320.6	3254.0	3218.1	3196.4	3201.5	3205.3	3232.2	3268.1	3329.5	3326.9
47.5°	3646.0	3664.0	3593.4	3556.3	3552.4	3576.8	3561.5	3580.6	3599.9	3670.3	3649.8
50°	4035.4	4066.2	4017.5	4014.9	4022.6	4067.5	4031.6	4041.9	4020.0	4064.9	4038.0
52.5°	4512.0	4556.8	4547.9	4563.3	4649.1	4741.3	4659.3	4623.5	4541.5	4555.6	4508.2
55°	5089.7	5157.7	5170.5	5262.8	5457.4	5645.8	5471.6	5326.8	5152.6	5120.5	5070.6
57.5°	5747.0	5800.8	5862.3	6050.6	6414.4	6748.8	6414.4	6094.1	5820.0	5754.7	5708.5
60°	6454.1	6520.7	6579.7	6857.7	7398.3	7868.5	7388.1	6879.5	6517.0	6428.5	6351.6
62.5°	7213.8	7299.6	7340.6	7649.4	8279.7	8840.8	8288.7	7672.4	7270.2	7175.4	7098.5
65°	7942.7	8013.2	8059.4	8388.6	8990.7	9553.1	9031.7	8424.5	8010.7	7886.5	7825.0
67.5°	8282.3	8320.6	8433.4	8806.2	9441.7	10083.4	9549.3	8846.0	8383.5	8165.7	8168.2
70°	7785.2	7707.1	7978.6	8575.7	9495.5	10408.9	9618.4	8557.7	7991.4	7637.9	7722.5
72.5°	6016.0	5881.4	6353.0	7374.0	8880.5	10201.3	8942.0	7431.7	6646.3	5928.9	6107.0
75°	3273.2	3120.7	3771.5	5062.9	7081.8	8842.1	7244.6	5207.6	4199.4	3248.8	3460.2
77.5°	923.6	866.0	1391.2	2449.4	4259.6	6208.2	4423.6	2503.3	1650.0	978.8	1087.6
80°	283.1	274.2	371.6	737.9	1808.9	2973.4	1738.4	746.9	472.7	298.5	315.2
82.5°	167.8	153.8	184.5	269.1	461.1	933.9	448.3	280.5	225.5	151.2	164.0
85°	96.0	89.7	108.9	130.7	155.0	198.5	129.4	133.2	120.4	80.7	84.6
87.5°	39.7	35.9	42.2	41.0	35.9	46.1	34.5	41.0	48.7	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)