

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: P883762

Luminaire Tested: **NAV-SB4B-735-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883762
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-SB4B-735-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 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: 23083 lumens
Efficiency: N/A
Efficacy: 157.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

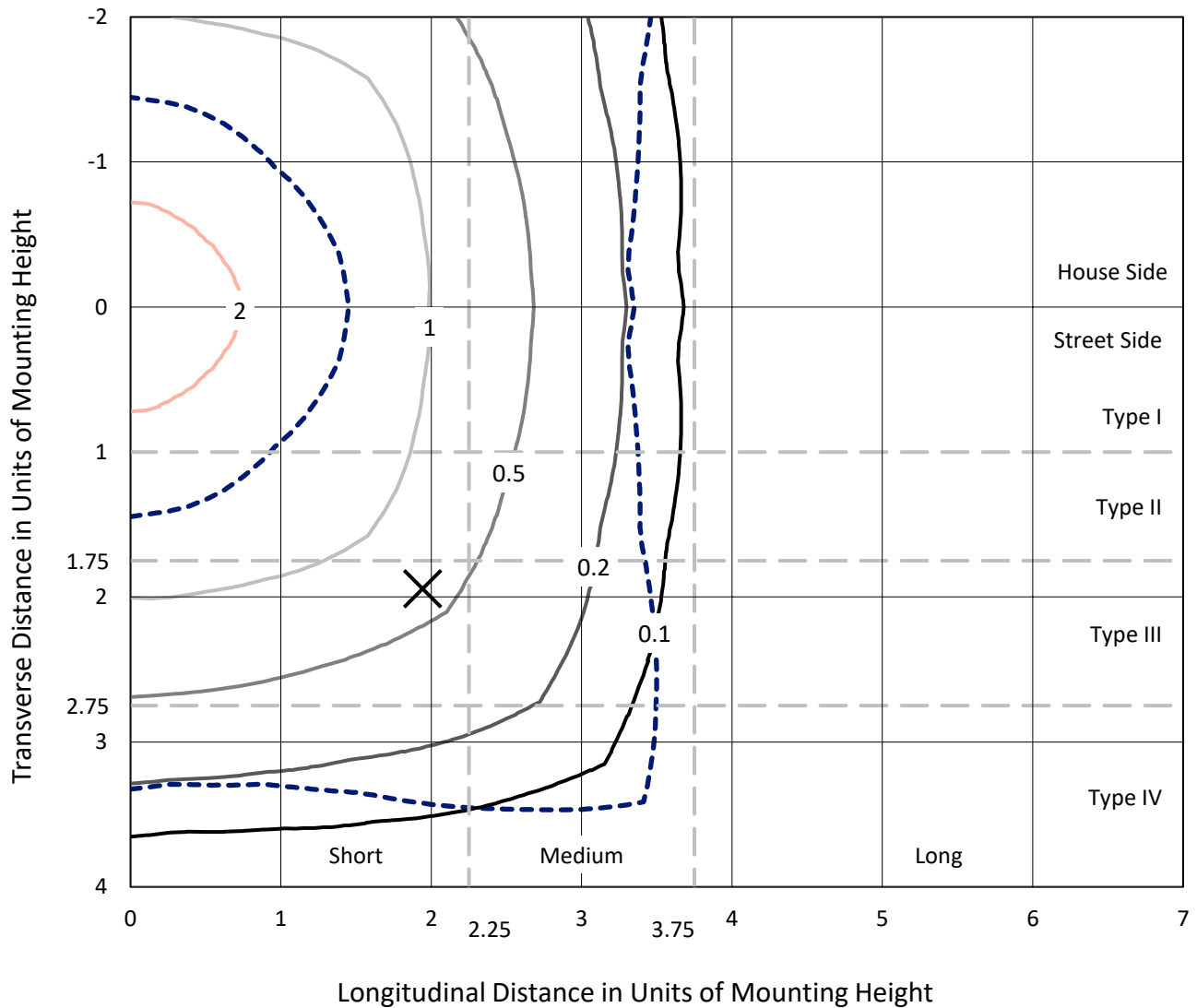
Input Watts (W): 147
Input Voltage (V): 120.0
Input Current (Ain): 1.255
Voltage Rise (V): NR
Power Factor: 0.988
Total Harmonic Distortion (THDi): 13.593
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

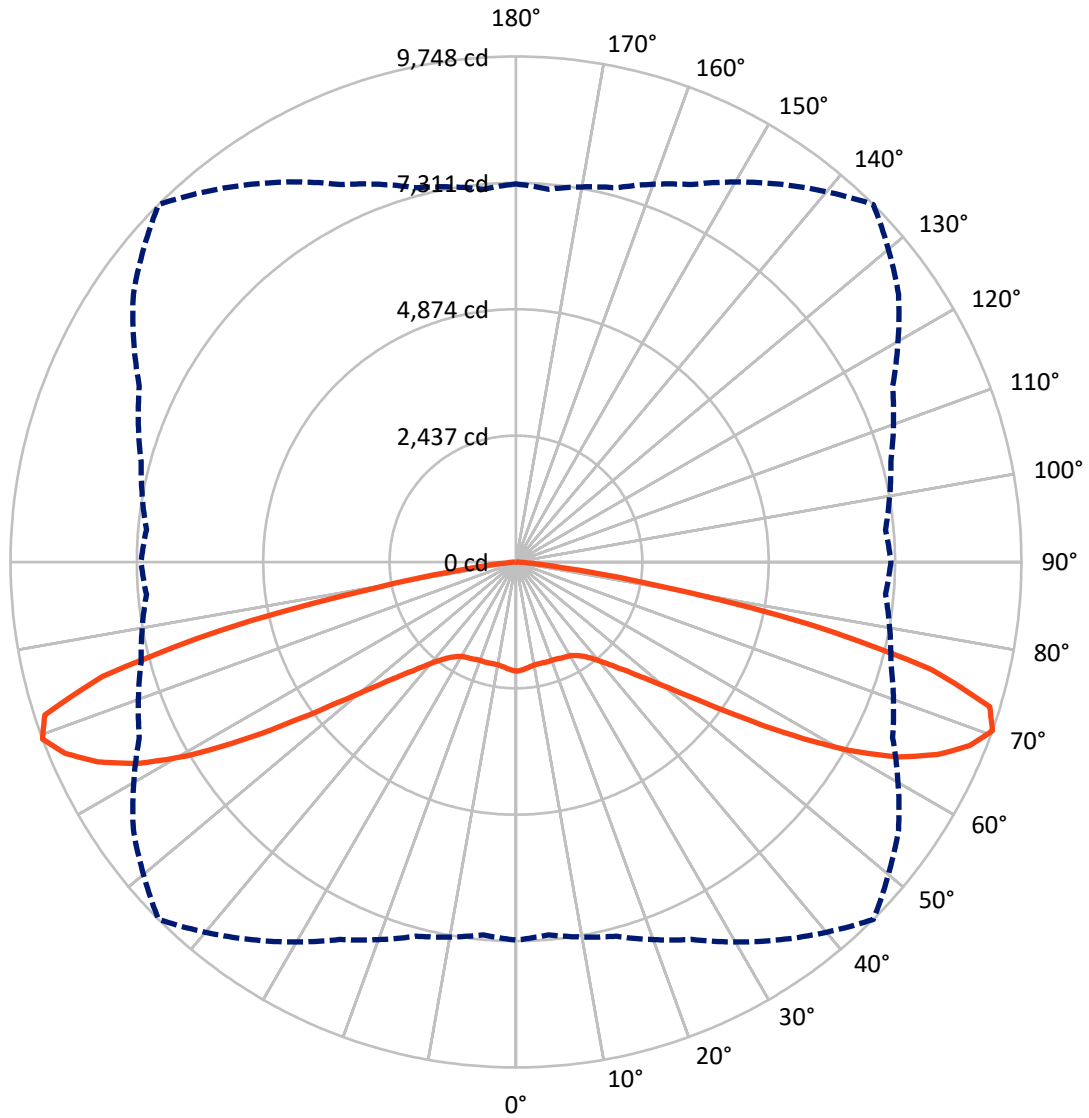
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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	11541.5	0.0	11541.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11541.5	0.0	11541.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	23083.0	0.0	23083.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.9	0.8
10°-20°	575.1	2.5
20°-30°	957.1	4.1
30°-40°	1447.4	6.3
40°-50°	2405.3	10.4
50°-60°	4538.7	19.7
60°-70°	7663.8	33.2
70°-80°	5035.9	21.8
80°-90°	263.8	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°	23083.0	100.0
0°-180°	23083.0	100.0



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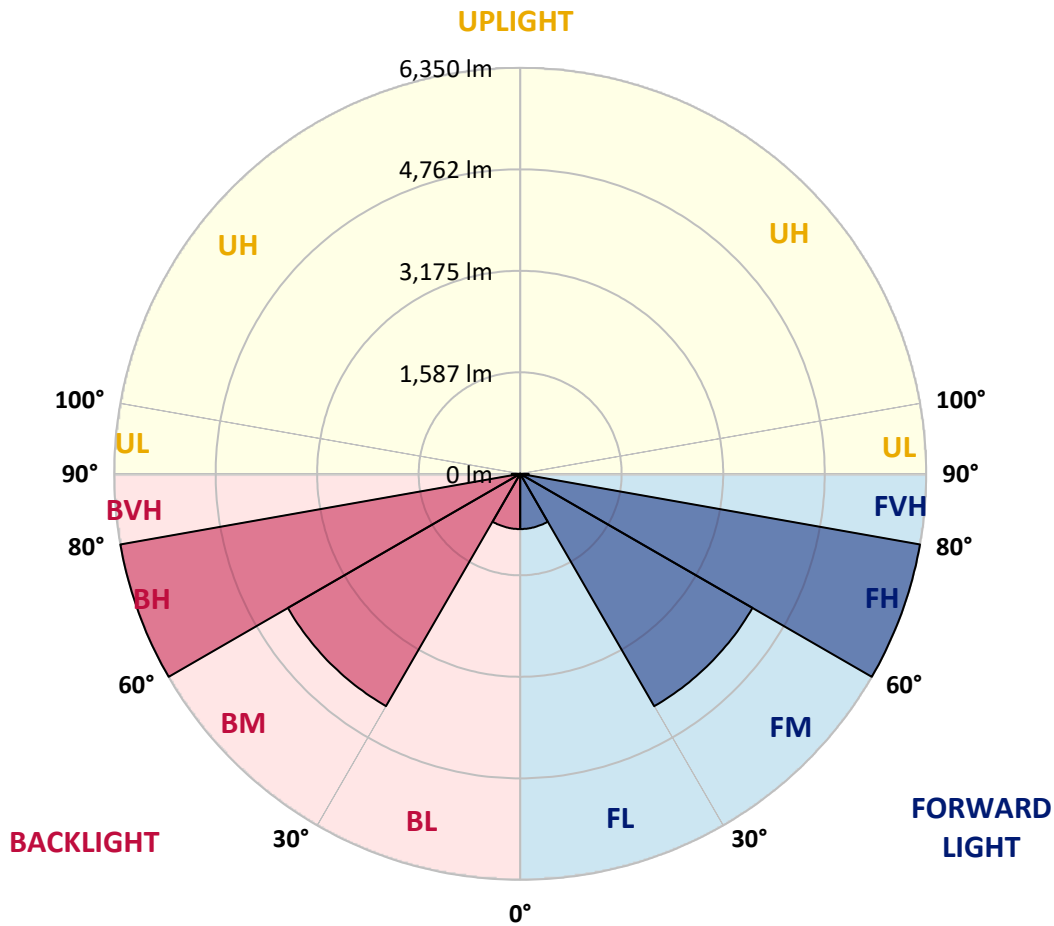
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	864.0	3.7			
FM (30°-60°)	4195.7	18.2			
FH (60°-80°)	6349.8	27.5			G3/7500
FVH (80°-90°)	131.9	0.6			G2/225
BL (0°-30°)	864.0	3.7	B2/1000		
BM (30°-60°)	4195.7	18.2	B3/5000		
BH (60°-80°)	6349.8	27.5	B5		G3/7500
BVH (80°-90°)	131.9	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°	2105.6	2105.6	2105.6	2105.6	2105.6	2105.6	2105.6	2105.6	2105.6	2105.6	2105.6
2.5°	2092.4	2098.4	2096.0	2091.2	2091.2	2091.2	2091.2	2093.6	2097.2	2099.6	2098.4
5°	2064.8	2069.6	2068.4	2064.8	2066.0	2066.0	2064.8	2068.4	2070.8	2072.0	2072.0
7.5°	2040.8	2045.6	2043.2	2037.2	2037.2	2037.2	2034.8	2038.4	2042.0	2043.2	2043.2
10°	2034.8	2039.6	2032.4	2022.8	2019.2	2019.2	2015.6	2019.2	2026.4	2030.0	2030.0
12.5°	2037.2	2040.8	2033.6	2019.2	2015.6	2010.9	2010.9	2014.5	2024.0	2028.8	2030.0
15°	2044.4	2048.0	2037.2	2021.6	2018.0	2014.5	2013.3	2018.0	2028.8	2037.2	2038.4
17.5°	2057.6	2061.2	2044.4	2022.8	2018.0	2019.2	2018.0	2021.6	2038.4	2054.0	2054.0
20°	2069.6	2072.0	2049.2	2022.8	2018.0	2019.2	2018.0	2025.2	2046.8	2068.4	2069.6
22.5°	2073.2	2075.6	2054.0	2031.2	2027.6	2028.8	2027.6	2034.8	2055.2	2076.8	2076.8
25°	2074.4	2078.0	2061.2	2043.2	2049.2	2051.6	2049.2	2050.4	2066.0	2085.2	2084.0
27.5°	2092.4	2097.2	2081.6	2066.0	2069.6	2068.4	2072.0	2075.6	2087.6	2106.8	2102.0
30°	2129.6	2133.2	2120.0	2104.4	2102.0	2093.6	2104.4	2116.4	2129.6	2146.4	2142.8
32.5°	2190.8	2198.0	2181.2	2164.4	2153.6	2148.8	2157.2	2177.6	2195.6	2213.6	2206.4
35°	2292.8	2297.6	2282.0	2250.8	2231.6	2231.6	2238.8	2265.2	2294.0	2316.8	2308.4
37.5°	2436.8	2442.8	2415.2	2378.0	2349.2	2349.2	2358.8	2386.4	2429.6	2462.0	2450.0
40°	2611.9	2620.3	2585.6	2547.2	2519.6	2514.8	2526.8	2558.0	2598.7	2639.5	2626.3
42.5°	2823.1	2832.7	2787.1	2753.5	2731.9	2731.9	2737.9	2766.7	2803.9	2854.3	2850.7
45°	3093.1	3109.9	3047.5	3013.9	2993.5	2998.3	3001.9	3027.1	3060.7	3118.3	3115.9
47.5°	3414.6	3431.4	3365.4	3330.6	3327.0	3349.8	3335.4	3353.4	3371.4	3437.4	3418.2
50°	3779.3	3808.1	3762.5	3760.1	3767.3	3809.3	3775.7	3785.3	3764.9	3806.9	3781.7
52.5°	4225.7	4267.7	4259.3	4273.7	4354.0	4440.4	4363.6	4330.0	4253.3	4266.5	4222.1
55°	4766.8	4830.4	4842.4	4928.7	5111.1	5287.5	5124.3	4988.7	4825.6	4795.6	4748.8
57.5°	5382.3	5432.7	5490.2	5666.6	6007.4	6320.5	6007.4	5707.4	5450.7	5389.5	5346.3
60°	6044.6	6106.9	6162.1	6422.5	6928.8	7369.1	6919.2	6442.9	6103.3	6020.6	5948.6
62.5°	6756.0	6836.4	6874.8	7164.0	7754.3	8279.8	7762.7	7185.6	6808.8	6720.0	6648.0
65°	7438.7	7504.7	7547.9	7856.2	8420.1	8946.8	8458.5	7889.8	7502.3	7385.9	7328.3
67.5°	7756.7	7792.6	7898.2	8247.4	8842.5	9443.6	8943.2	8284.6	7851.4	7647.5	7649.9
70°	7291.1	7217.9	7472.3	8031.4	8892.9	9748.3	9008.0	8014.6	7484.3	7153.2	7232.3
72.5°	5634.2	5508.2	5949.8	6906.0	8317.0	9553.9	8374.5	6960.0	6224.5	5552.6	5719.4
75°	3065.5	2922.7	3532.2	4741.6	6632.4	8281.0	6784.8	4877.2	3932.9	3042.7	3240.6
77.5°	865.0	811.1	1303.0	2294.0	3989.3	5814.2	4142.9	2344.4	1545.3	916.6	1018.6
80°	265.2	256.8	347.9	691.1	1694.1	2784.7	1628.1	699.5	442.7	279.6	295.1
82.5°	157.2	144.0	172.8	252.0	431.9	874.6	419.9	262.8	211.2	141.6	153.6
85°	90.0	84.0	102.0	122.4	145.2	186.0	121.2	124.8	112.8	75.6	79.2
87.5°	37.2	33.6	39.6	38.4	33.6	43.2	32.4	38.4	45.6	30.0	27.6
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)