

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: P963497

Luminaire Tested: **NAV-SB3A-735-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-735-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14455.5 lumens
Efficiency: N/A
Efficacy: 170.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

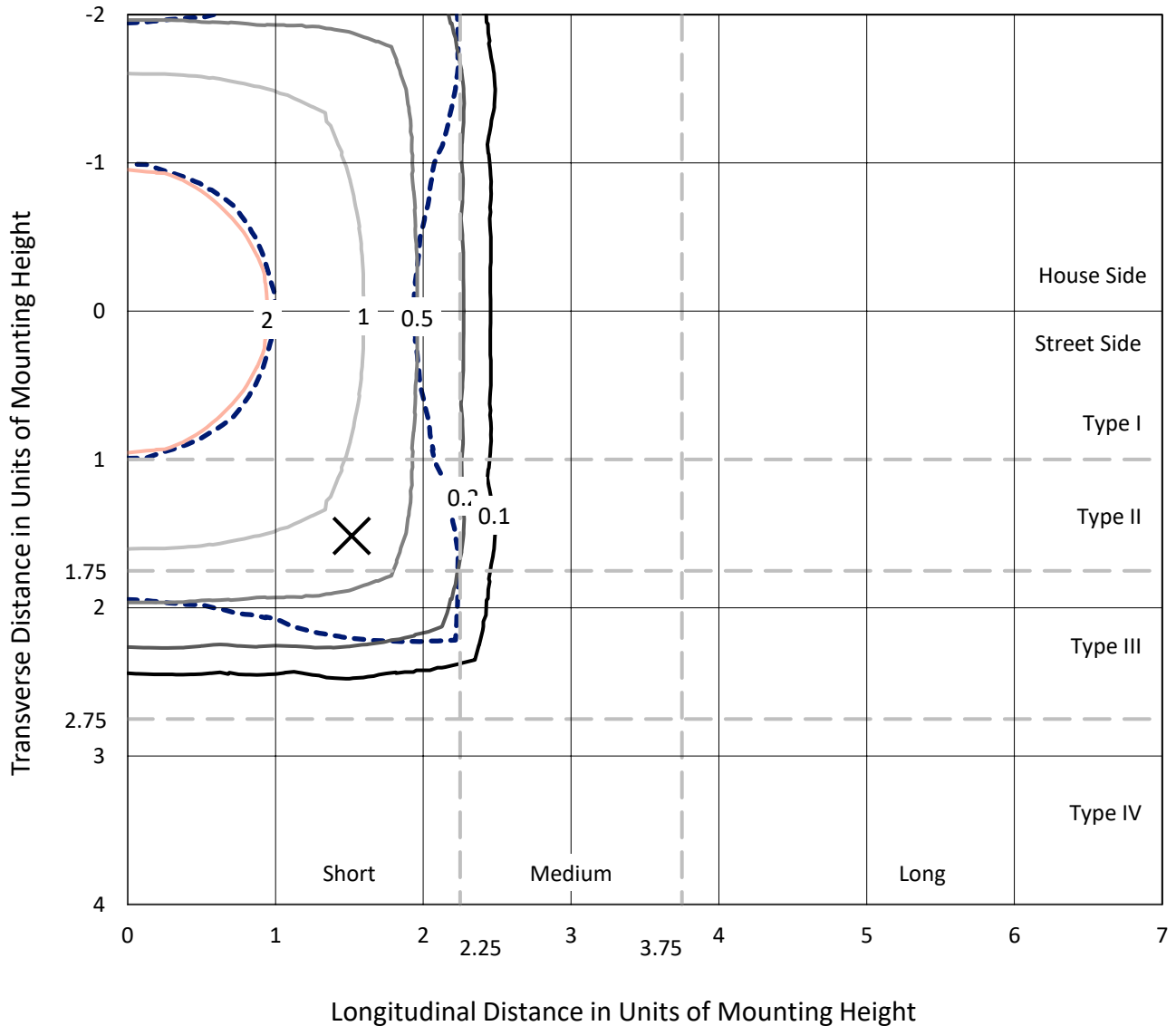
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

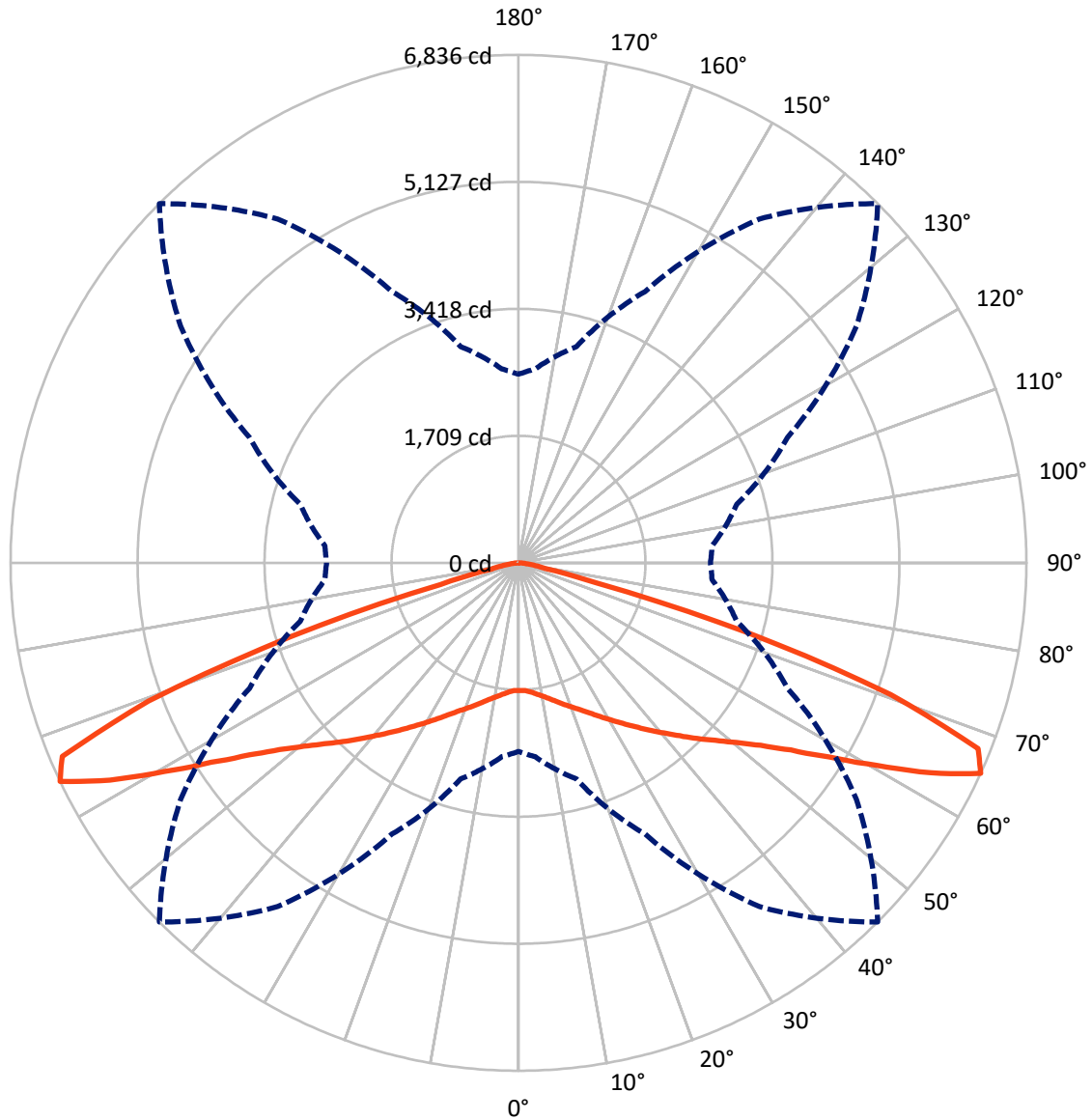
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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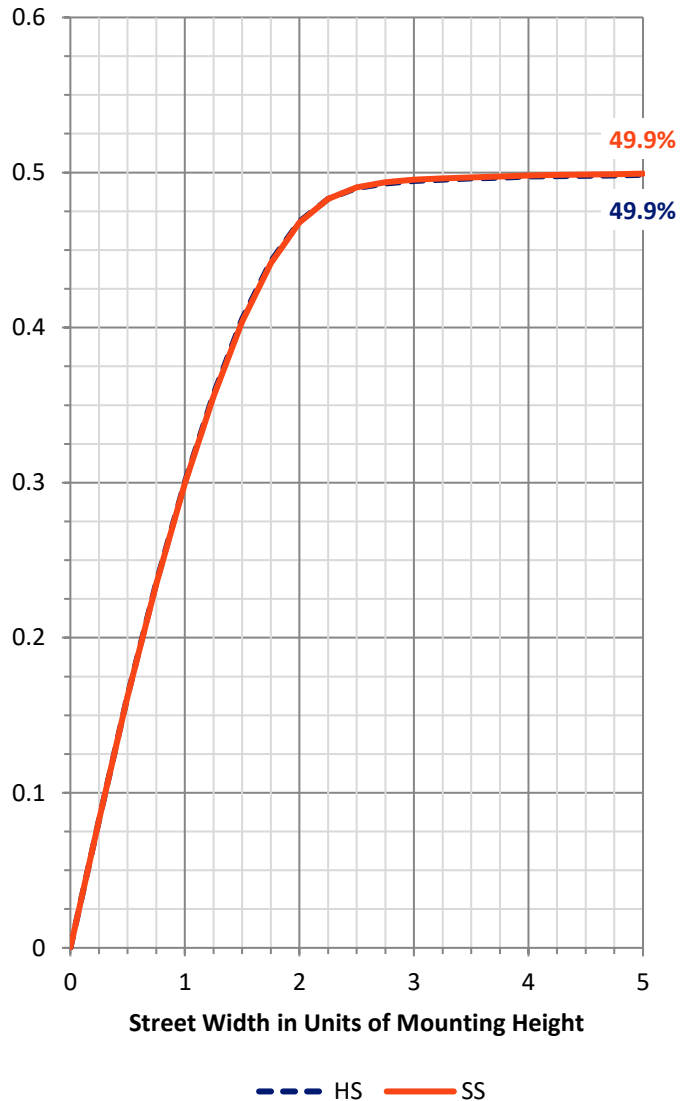
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7227.8	0.0	7227.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7227.8	0.0	7227.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	14455.5	0.0	14455.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.8	1.2
10°-20°	554.0	3.8
20°-30°	1046.0	7.2
30°-40°	1712.9	11.8
40°-50°	2655.8	18.4
50°-60°	3923.2	27.1
60°-70°	3734.5	25.8
70°-80°	602.6	4.2
80°-90°	56.8	0.4
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°	14455.5	100.0
0°-180°	14455.5	100.0

Coefficient of Utilization



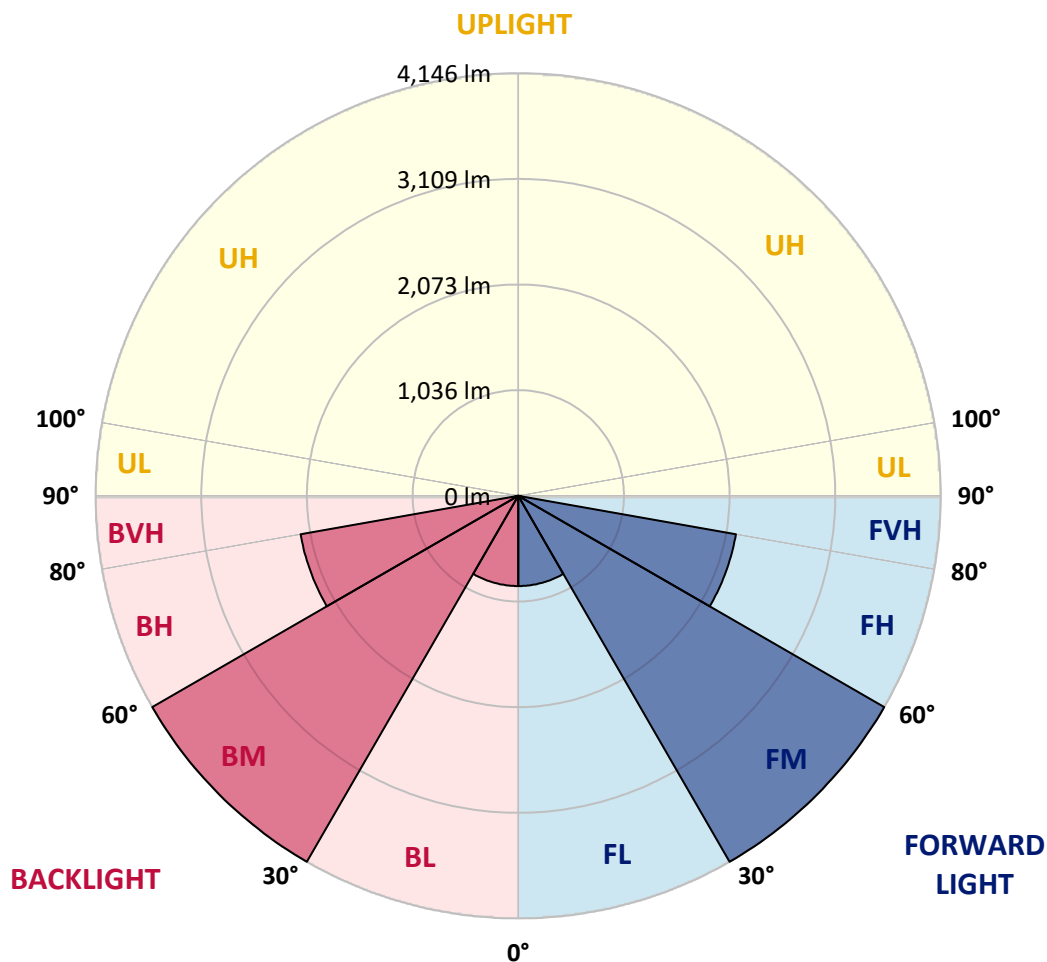
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	884.9	6.1			
FM (30°-60°)	4145.9	28.7			
FH (60°-80°)	2168.5	15.0			G2/5000
FVH (80°-90°)	28.4	0.2			G1/100
BL (0°-30°)	884.9	6.1	B2/1000		
BM (30°-60°)	4145.9	28.7	B3/5000		
BH (60°-80°)	2168.5	15.0	B3/2500		G2/5000
BVH (80°-90°)	28.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1720.4	1720.4	1720.4	1720.4	1720.4	1720.4	1720.4	1720.4	1720.4	1720.4	1720.4
2.5°	1731.9	1726.2	1730.5	1726.9	1723.9	1721.1	1722.5	1727.6	1729.8	1730.5	1730.5
5°	1755.2	1750.1	1752.2	1752.2	1747.2	1745.8	1746.5	1750.1	1754.5	1754.5	1754.5
7.5°	1792.9	1787.8	1792.9	1790.0	1785.7	1784.2	1783.5	1786.4	1792.9	1792.9	1790.7
10°	1838.5	1832.8	1835.7	1834.2	1829.1	1827.0	1826.2	1830.6	1836.4	1835.7	1834.2
12.5°	1888.7	1882.1	1885.7	1881.4	1880.0	1877.7	1877.7	1877.0	1880.7	1877.7	1879.2
15°	1944.4	1940.1	1941.6	1938.7	1940.8	1939.4	1933.6	1930.7	1932.1	1927.8	1928.5
17.5°	2010.4	2000.3	2005.4	2004.0	2004.0	2006.8	1997.4	1993.8	1996.7	1992.3	1996.0
20°	2086.6	2076.4	2078.6	2075.7	2072.1	2075.0	2063.4	2066.3	2068.4	2065.6	2072.1
22.5°	2170.0	2157.0	2156.3	2157.7	2149.7	2150.4	2142.5	2149.7	2154.0	2146.1	2154.0
25°	2255.6	2241.9	2251.3	2247.6	2237.5	2239.6	2233.9	2241.1	2244.8	2234.6	2246.2
27.5°	2346.2	2336.8	2345.5	2347.8	2335.4	2344.1	2335.4	2341.9	2345.5	2330.3	2341.9
30°	2452.2	2442.8	2450.7	2456.5	2442.0	2455.8	2448.5	2452.9	2453.6	2435.5	2446.4
32.5°	2567.5	2553.0	2573.3	2576.2	2560.2	2577.0	2567.5	2573.3	2577.0	2552.2	2569.0
35°	2708.2	2690.0	2713.3	2709.6	2695.9	2709.6	2701.0	2709.6	2718.3	2688.6	2706.7
37.5°	2859.7	2840.9	2865.6	2859.0	2846.0	2855.4	2850.3	2856.2	2869.9	2838.0	2857.6
40°	3026.6	3003.4	3036.8	3025.1	3012.8	3011.3	3014.2	3017.9	3036.0	3000.5	3012.1
42.5°	3205.0	3180.4	3230.4	3212.2	3194.8	3183.2	3192.7	3199.9	3217.4	3177.4	3198.5
45°	3408.8	3380.6	3445.7	3424.0	3396.4	3372.6	3387.7	3398.7	3424.0	3376.1	3400.8
47.5°	3633.6	3601.7	3671.3	3664.8	3619.9	3567.6	3602.5	3633.6	3652.5	3594.5	3614.0
50°	3853.4	3828.8	3920.1	3928.1	3873.0	3799.8	3848.4	3895.5	3900.5	3824.4	3833.8
52.5°	4059.4	4034.7	4167.4	4217.5	4168.2	4081.1	4132.6	4180.5	4142.0	4043.4	4046.3
55°	4224.0	4203.7	4372.6	4501.8	4518.5	4446.7	4477.1	4475.7	4349.5	4197.9	4203.0
57.5°	4263.9	4261.0	4474.2	4747.7	4921.7	4930.5	4870.3	4716.4	4444.5	4240.7	4227.6
60°	4082.6	4100.7	4393.8	4876.0	5340.2	5533.2	5272.8	4834.0	4336.5	4053.6	4020.3
62.5°	3540.0	3587.9	3941.1	4719.4	5678.2	6226.5	5595.5	4655.5	3892.5	3523.4	3501.6
65°	2537.0	2620.4	3010.6	4027.4	5647.7	6835.7	5549.1	3994.8	3039.6	2613.9	2582.7
67.5°	1151.0	1235.8	1567.3	2757.5	4909.4	6670.4	4897.8	2786.6	1645.6	1240.2	1222.1
70°	417.1	431.5	538.1	1103.8	3137.5	5314.8	3271.7	1111.8	572.3	459.8	454.0
72.5°	252.4	254.6	277.1	395.2	1090.1	3226.8	1136.5	408.4	282.9	250.9	255.3
75°	160.3	158.9	197.3	241.5	386.5	1088.7	405.4	241.5	196.6	179.2	180.6
77.5°	115.3	118.9	141.4	180.6	243.6	369.2	239.3	172.6	141.4	116.0	118.2
80°	86.3	88.5	103.0	140.7	171.2	229.9	152.3	127.6	106.6	72.6	74.7
82.5°	62.4	62.4	67.4	102.3	104.4	124.0	82.7	89.9	70.3	51.5	51.5
85°	37.0	36.3	42.0	60.9	54.4	45.7	37.7	55.1	44.3	31.9	31.2
87.5°	13.0	13.7	13.0	17.4	14.6	12.3	11.6	15.3	12.3	10.9	10.1
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)