

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: P963589

Luminaire Tested: **NAV-SB3A-760-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-760-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 5700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15284.8 lumens
Efficiency: N/A
Efficacy: 180.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - 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

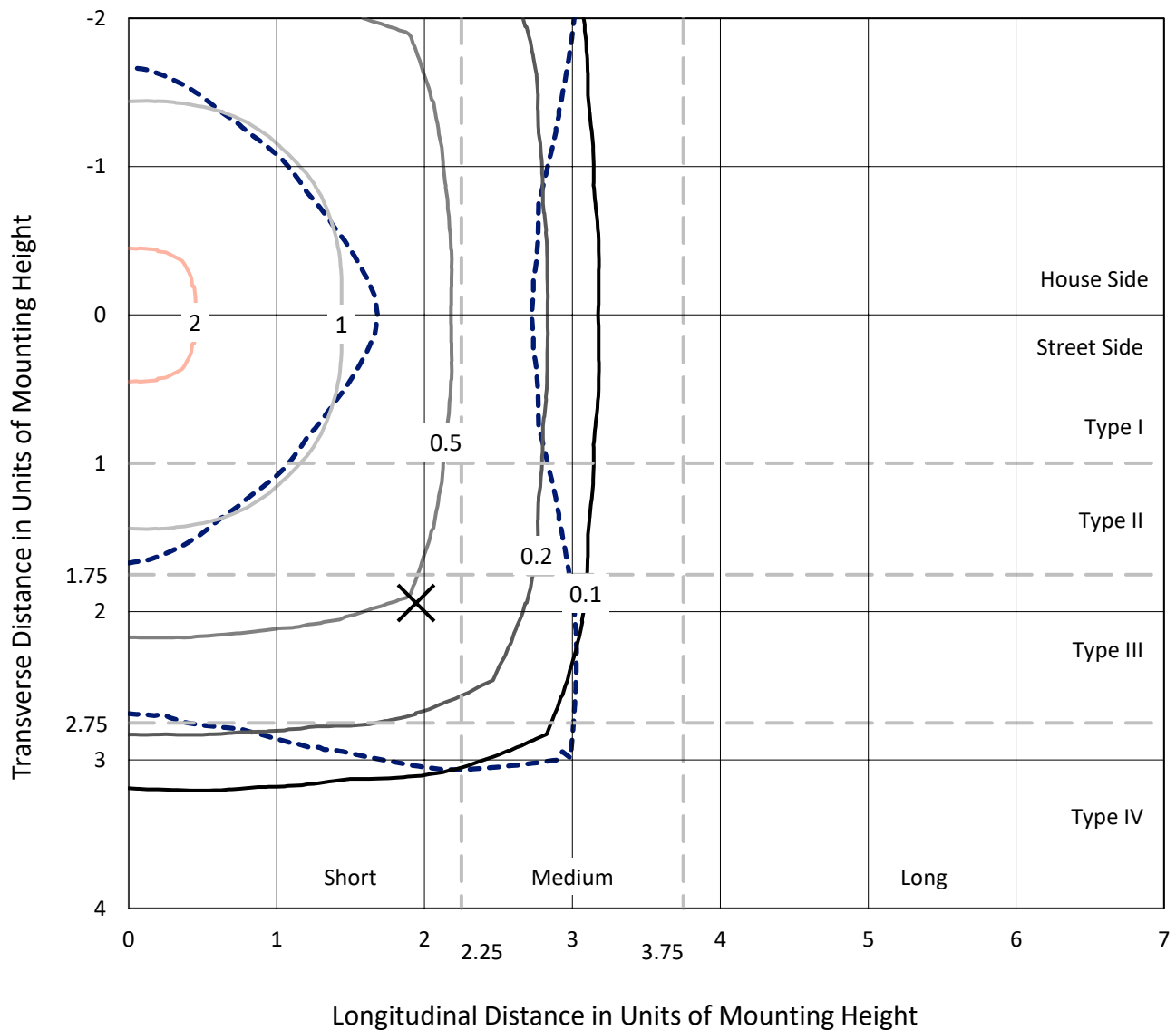


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Iso-Footcandle Lines of Horizontal Illumination

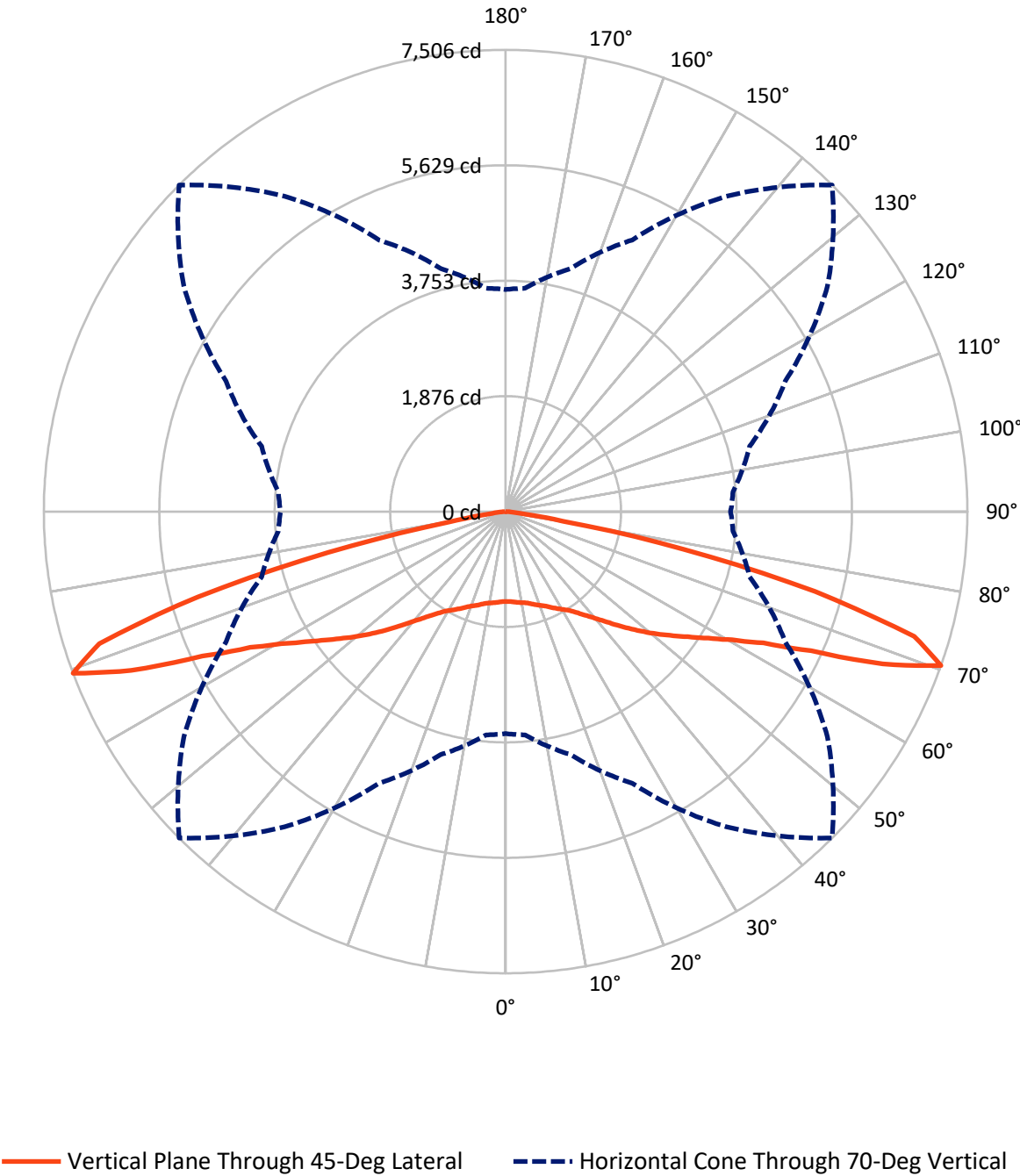
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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	7642.4	0.0	7642.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7642.4	0.0	7642.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	15284.8	0.0	15284.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.2	0.9
10°-20°	441.1	2.9
20°-30°	788.2	5.2
30°-40°	1277.7	8.4
40°-50°	2081.2	13.6
50°-60°	3173.1	20.8
60°-70°	4720.6	30.9
70°-80°	2572.9	16.8
80°-90°	87.6	0.6
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°	15284.8	100.0
0°-180°	15284.8	100.0

Coefficient of Utilization



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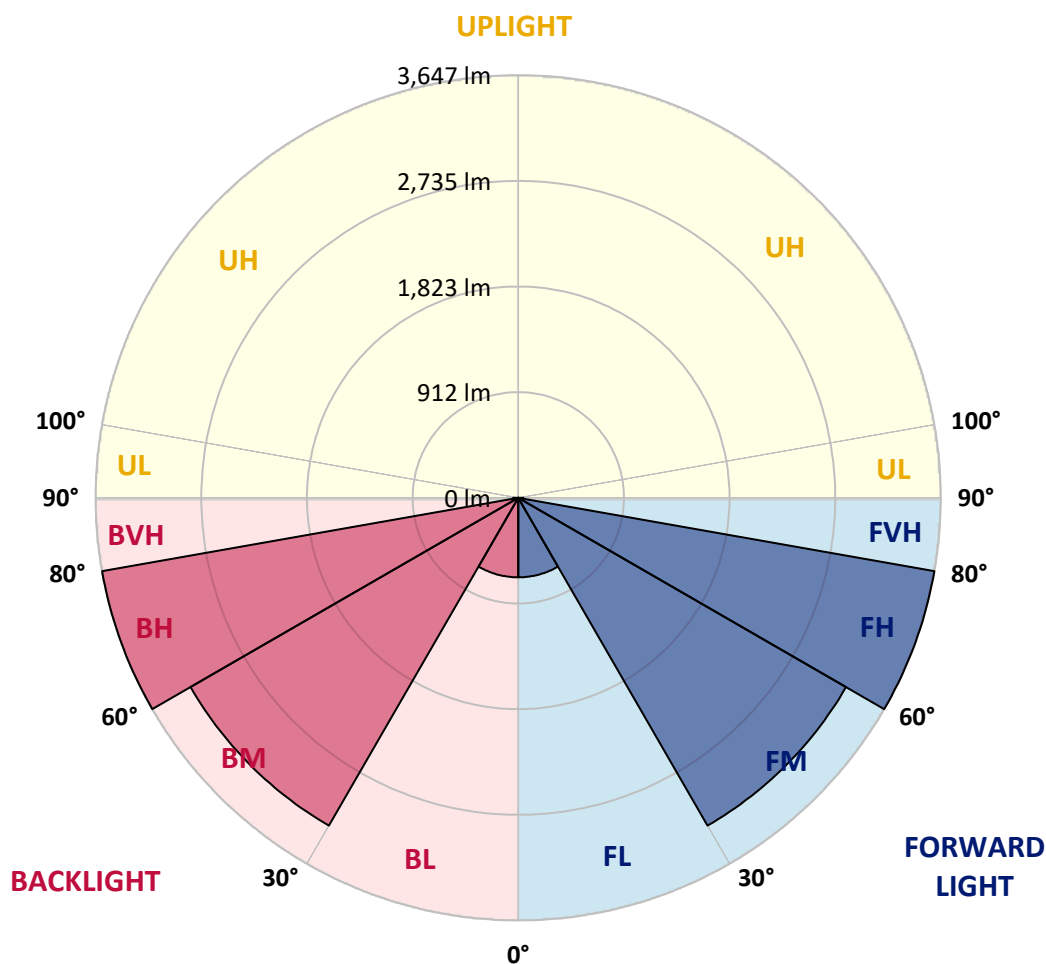
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	685.8	4.5			
FM	(30°-60°)	3266.0	21.4			
FH	(60°-80°)	3646.8	23.9			G2/5000
FVH	(80°-90°)	43.8	0.3			G1/100
BL	(0°-30°)	685.8	4.5	B2/1000		
BM	(30°-60°)	3266.0	21.4	B3/5000		
BH	(60°-80°)	3646.8	23.9	B4/5000		G2/5000
BVH	(80°-90°)	43.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1464.1	1464.1	1464.1	1464.1	1464.1	1464.1	1464.1	1464.1	1464.1	1464.1	1464.1
2.5°	1471.1	1472.6	1469.5	1468.0	1466.5	1464.1	1464.9	1468.7	1471.8	1471.1	1471.8
5°	1483.3	1484.8	1482.6	1481.7	1478.7	1477.9	1477.9	1481.7	1484.1	1482.6	1483.3
7.5°	1497.1	1499.5	1495.6	1494.9	1493.3	1491.8	1491.0	1494.9	1497.1	1497.1	1497.1
10°	1510.1	1512.5	1509.4	1507.1	1505.5	1505.5	1504.0	1507.1	1511.0	1510.1	1510.1
12.5°	1524.0	1525.5	1522.4	1520.9	1520.9	1523.3	1520.9	1522.4	1525.5	1524.0	1523.3
15°	1540.9	1541.6	1540.9	1543.1	1547.0	1554.7	1547.7	1546.2	1547.7	1544.0	1544.0
17.5°	1563.8	1565.4	1568.5	1573.9	1579.2	1593.1	1580.8	1577.0	1577.0	1569.3	1569.3
20°	1592.2	1594.6	1599.2	1608.4	1615.3	1628.3	1616.0	1610.7	1608.4	1598.4	1598.4
22.5°	1622.2	1626.1	1632.9	1645.2	1657.5	1669.8	1657.5	1648.3	1641.4	1628.3	1627.6
25°	1656.7	1661.3	1672.1	1692.1	1708.9	1726.6	1712.0	1693.6	1679.8	1661.3	1660.6
27.5°	1705.8	1711.2	1724.3	1748.9	1770.3	1785.7	1771.8	1748.0	1728.9	1706.6	1705.8
30°	1774.9	1780.3	1795.6	1821.7	1836.3	1846.2	1837.1	1818.7	1795.6	1770.3	1770.3
32.5°	1864.0	1870.8	1887.7	1912.2	1915.3	1916.9	1913.8	1904.6	1887.7	1857.0	1857.8
35°	1976.7	1984.4	2003.6	2023.6	2020.5	2023.6	2018.9	2015.9	2003.6	1968.3	1968.3
37.5°	2114.9	2124.1	2144.0	2159.4	2151.7	2147.9	2148.6	2149.4	2142.5	2103.3	2103.3
40°	2275.2	2287.5	2302.0	2318.2	2305.1	2293.6	2301.3	2307.5	2301.3	2261.5	2261.5
42.5°	2440.2	2457.8	2473.2	2496.2	2485.5	2470.9	2481.6	2488.6	2475.5	2432.5	2435.6
45°	2623.6	2640.5	2660.5	2694.9	2687.3	2672.0	2687.3	2688.9	2666.5	2615.9	2621.3
47.5°	2813.1	2830.8	2860.7	2906.8	2903.7	2886.8	2906.8	2896.0	2867.6	2807.0	2803.2
50°	2992.7	3017.3	3063.3	3127.8	3133.9	3113.2	3140.1	3119.3	3071.7	2995.8	2994.2
52.5°	3161.5	3187.6	3260.5	3348.0	3370.3	3343.3	3379.4	3343.3	3272.0	3174.5	3165.4
55°	3338.8	3367.9	3454.7	3568.9	3613.5	3593.5	3627.3	3572.8	3471.6	3353.4	3337.3
57.5°	3547.5	3565.2	3668.8	3804.6	3879.8	3884.3	3899.7	3807.7	3684.9	3550.6	3532.2
60°	3773.8	3798.4	3911.2	4074.0	4192.9	4231.2	4215.1	4078.5	3935.8	3781.5	3757.0
62.5°	4063.9	4090.8	4225.9	4420.7	4608.8	4703.9	4641.0	4443.1	4266.6	4081.6	4049.4
65°	4304.2	4334.0	4578.1	4925.7	5268.0	5459.0	5300.9	4936.4	4618.8	4357.9	4314.8
67.5°	4129.9	4166.7	4549.7	5188.1	6039.1	6609.3	6068.3	5266.4	4644.1	4290.3	4237.3
70°	3609.6	3644.2	4090.8	4871.2	6256.3	7505.6	6386.8	5014.7	4105.4	3709.5	3656.5
72.5°	2396.4	2507.8	2959.7	3895.9	5586.4	6945.4	5641.6	3816.9	2745.7	2391.1	2313.6
75°	795.0	884.0	1192.5	2019.7	3741.7	5194.3	3562.1	1787.2	944.6	679.9	643.1
77.5°	200.3	230.9	318.5	577.8	1492.5	2957.4	1343.7	471.9	257.1	179.6	160.4
80°	97.5	107.4	153.4	192.6	373.7	940.0	350.7	181.1	121.3	93.6	85.9
82.5°	53.7	54.5	86.7	109.0	138.9	243.2	144.2	105.9	69.8	56.8	56.8
85°	33.0	32.2	46.0	58.3	58.3	86.7	69.1	58.3	39.9	35.3	36.8
87.5°	13.0	13.0	16.9	18.4	16.1	22.2	17.6	19.2	15.4	14.6	15.4
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)