

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: P963501

Luminaire Tested: **NAV-SB3A-735-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-735-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14205.5 lumens
Efficiency: N/A
Efficacy: 167.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

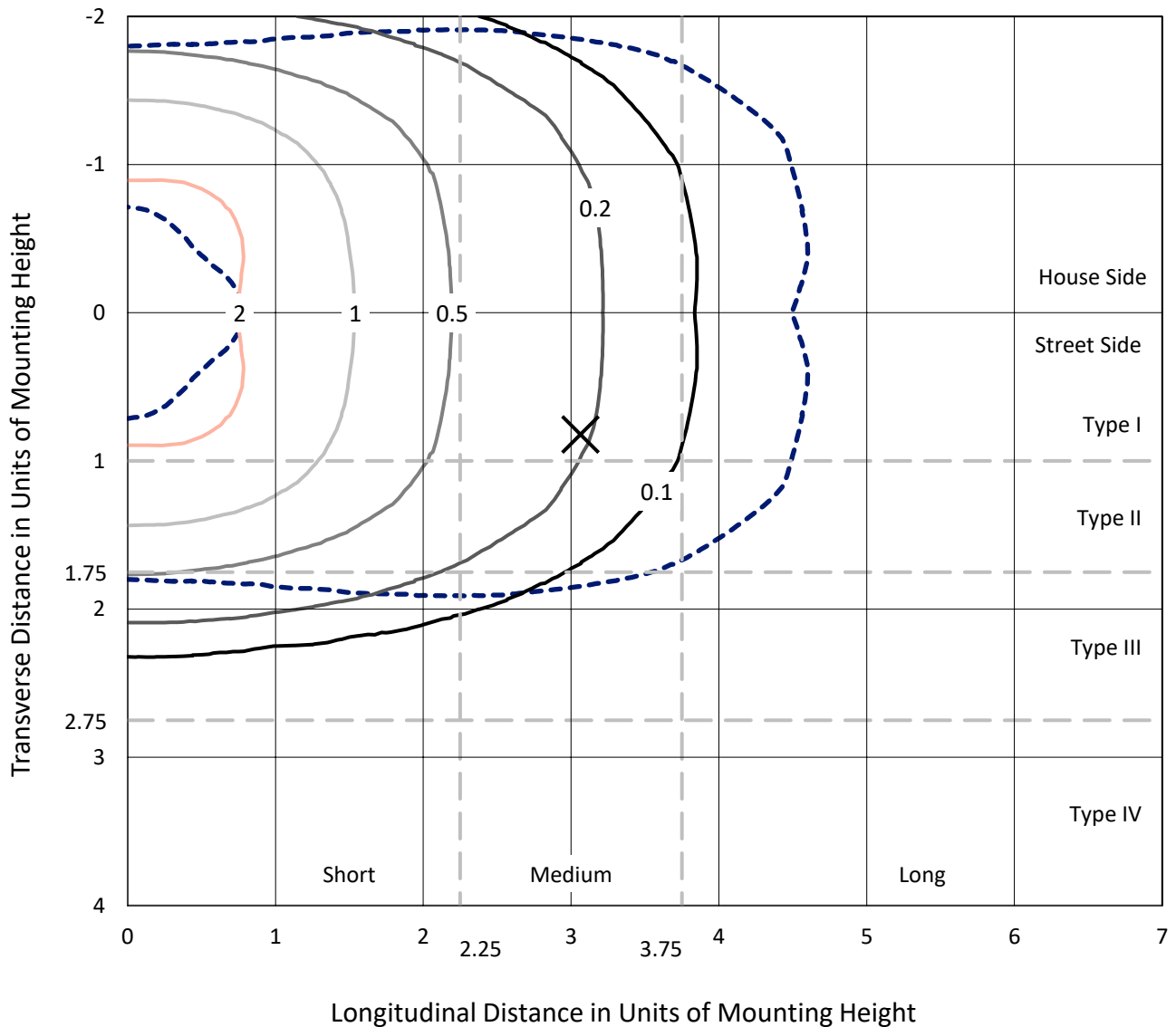
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

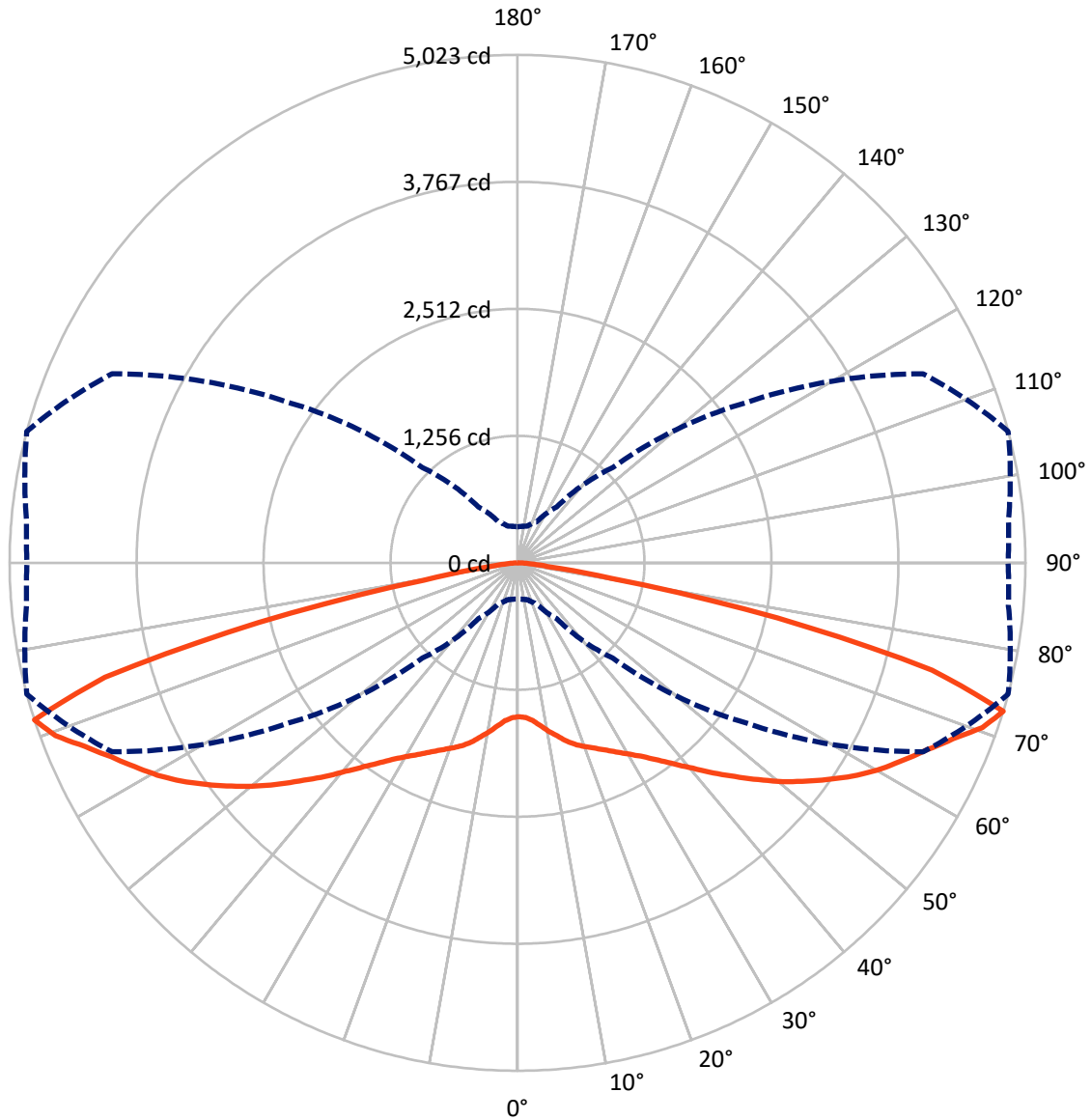
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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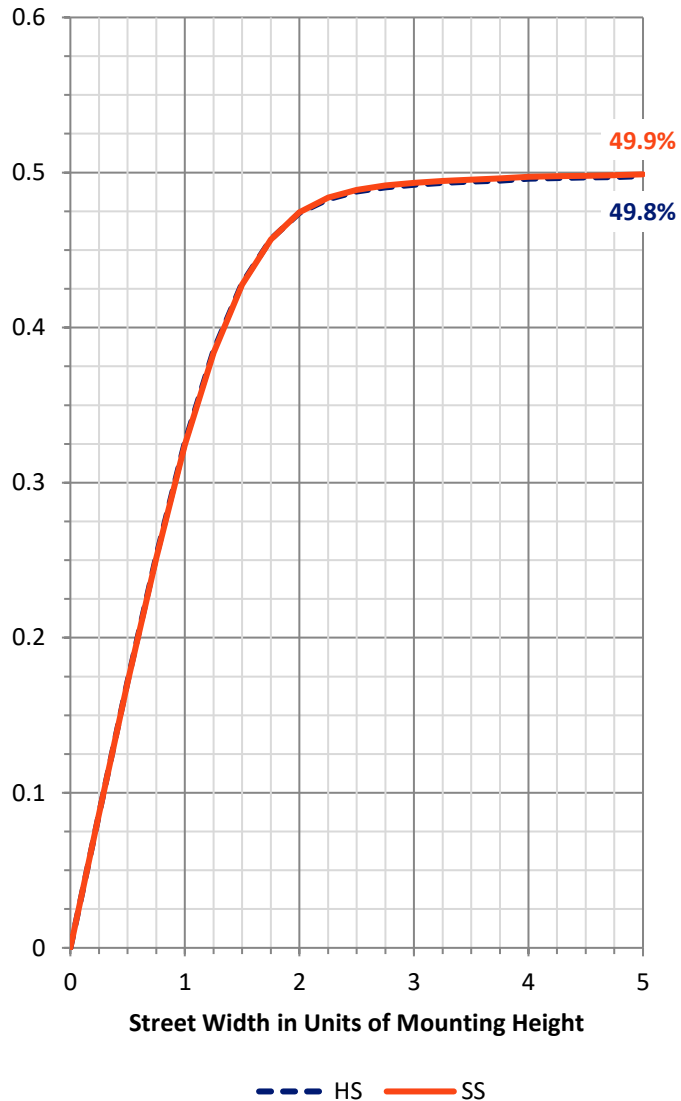
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7102.8	0.0	7102.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7102.8	0.0	7102.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	14205.5	0.0	14205.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.1	1.0
10°-20°	491.6	3.5
20°-30°	950.0	6.7
30°-40°	1604.1	11.3
40°-50°	2543.9	17.9
50°-60°	3406.0	24.0
60°-70°	3241.4	22.8
70°-80°	1691.4	11.9
80°-90°	128.0	0.9
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°	14205.5	100.0
0°-180°	14205.5	100.0

Coefficient of Utilization



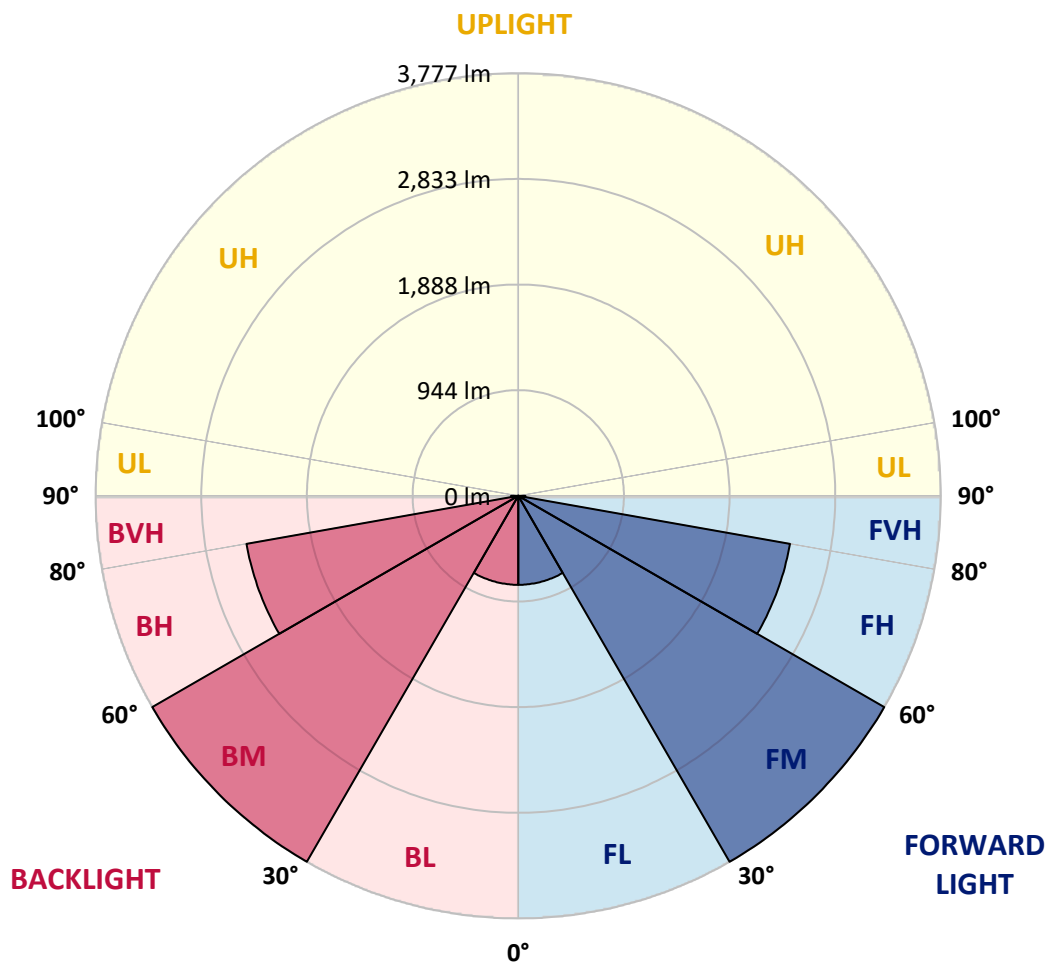
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	795.3	5.6			
FM (30°-60°)	3777.0	26.6			
FH (60°-80°)	2466.4	17.4			G2/5000
FVH (80°-90°)	64.0	0.5			G1/100
BL (0°-30°)	795.3	5.6	B2/1000		
BM (30°-60°)	3777.0	26.6	B3/5000		
BH (60°-80°)	2466.4	17.4	B3/2500		G3/2500
BVH (80°-90°)	64.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1521.6	1521.6	1521.6	1521.6	1521.6	1521.6	1521.6	1521.6	1521.6	1521.6	1521.6
2.5°	1521.6	1520.2	1521.6	1523.1	1522.4	1522.4	1526.0	1528.2	1532.6	1531.9	1531.0
5°	1511.5	1510.7	1516.6	1523.1	1528.2	1536.9	1547.7	1555.7	1565.9	1568.0	1568.0
7.5°	1506.4	1504.3	1514.4	1526.0	1542.0	1563.7	1584.8	1606.5	1623.9	1629.7	1631.2
10°	1510.0	1510.7	1524.6	1546.3	1571.7	1602.2	1631.9	1668.9	1693.5	1699.3	1705.2
12.5°	1526.7	1525.3	1548.5	1583.3	1618.2	1656.6	1691.4	1732.0	1758.8	1772.6	1778.4
15°	1557.2	1554.3	1586.9	1638.5	1689.2	1734.2	1762.5	1800.9	1832.1	1849.5	1856.1
17.5°	1593.5	1594.9	1637.7	1704.5	1771.2	1821.9	1848.8	1868.4	1892.3	1907.5	1914.8
20°	1657.3	1660.2	1708.1	1787.1	1863.2	1921.3	1943.1	1935.8	1942.4	1954.0	1962.7
22.5°	1742.9	1744.3	1798.0	1883.5	1963.4	2027.1	2041.7	2012.0	1993.8	2001.8	2007.6
25°	1842.2	1851.7	1905.4	1993.1	2075.0	2136.0	2142.6	2097.6	2052.6	2054.7	2058.4
27.5°	1963.4	1972.1	2026.4	2113.4	2196.9	2249.9	2249.2	2188.9	2122.9	2106.3	2111.3
30°	2094.7	2104.1	2159.9	2249.9	2327.5	2373.9	2363.8	2291.9	2197.6	2166.4	2170.0
32.5°	2250.6	2256.3	2312.9	2402.9	2474.7	2511.7	2490.6	2402.2	2284.6	2249.2	2257.9
35°	2439.2	2447.9	2489.9	2574.8	2637.8	2668.4	2632.8	2528.4	2396.3	2356.5	2362.3
37.5°	2654.5	2648.8	2696.7	2772.1	2824.3	2843.1	2794.6	2670.5	2524.1	2476.9	2485.5
40°	2879.4	2876.5	2928.7	3001.3	3029.5	3041.2	2969.3	2833.7	2671.3	2620.5	2637.1
42.5°	3083.2	3081.0	3151.4	3231.9	3266.0	3252.9	3162.2	3007.0	2841.7	2783.7	2798.1
45°	3246.4	3243.5	3329.8	3443.0	3509.7	3488.0	3366.1	3198.5	3014.3	2954.2	2967.9
47.5°	3371.8	3373.4	3466.1	3606.2	3722.9	3730.9	3574.3	3393.7	3204.4	3136.2	3156.5
50°	3462.6	3466.9	3566.3	3721.5	3881.1	3951.4	3786.8	3593.9	3400.8	3324.0	3347.2
52.5°	3485.0	3493.0	3612.7	3794.8	3982.5	4116.7	4002.9	3786.0	3587.3	3514.0	3532.9
55°	3365.4	3381.3	3532.9	3788.9	4045.0	4225.6	4192.9	3981.1	3775.2	3699.7	3720.7
57.5°	3090.5	3112.9	3289.9	3624.3	4031.1	4300.3	4340.2	4168.3	3963.0	3890.5	3907.1
60°	2705.4	2732.1	2901.9	3266.7	3836.8	4327.9	4443.9	4350.3	4135.6	4065.3	4080.5
62.5°	2124.4	2159.2	2362.3	2790.2	3426.3	4199.4	4532.3	4514.9	4290.9	4203.0	4213.3
65°	1362.8	1399.8	1613.8	2119.3	2878.7	3806.3	4559.9	4675.2	4454.8	4332.2	4347.4
67.5°	821.7	838.4	944.3	1284.5	2104.1	3213.8	4326.3	4853.0	4646.2	4493.9	4505.5
70°	525.8	535.3	598.4	754.3	1189.5	2344.9	3747.6	4886.3	4878.3	4660.0	4658.5
72.5°	356.8	359.8	376.4	446.8	673.1	1332.4	2764.1	4423.6	5023.3	4874.0	4850.7
75°	261.1	277.1	303.9	316.2	382.2	665.8	1584.0	3107.9	4233.6	4298.8	4140.7
77.5°	194.3	195.1	232.1	246.6	272.8	354.6	670.1	1734.9	2628.4	2759.7	2461.6
80°	164.6	155.9	155.2	198.7	205.3	221.2	299.5	599.1	941.5	570.8	431.5
82.5°	137.0	127.6	115.3	155.2	140.0	135.6	129.9	243.7	299.5	147.2	125.5
85°	95.7	91.4	87.0	101.6	79.7	68.2	62.4	113.9	126.2	62.4	55.1
87.5°	41.3	42.7	43.6	45.0	33.3	24.0	24.0	31.9	31.9	24.7	18.1
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)