

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: P962442

Luminaire Tested: **NAV-SB2C-735-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962442
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-SB2C-735-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16077.1 lumens
Efficiency: N/A
Efficacy: 159.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 100.9
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



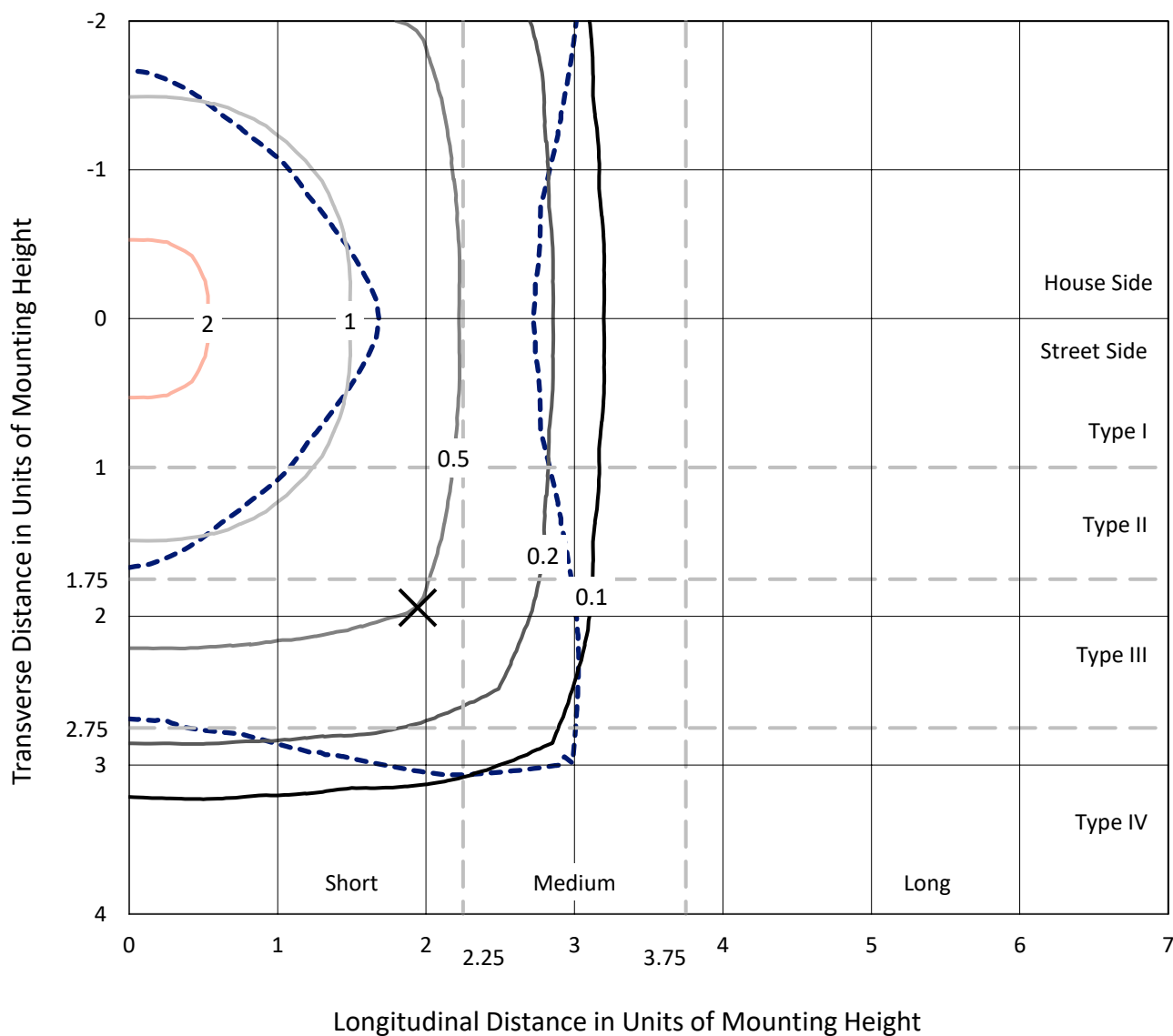
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



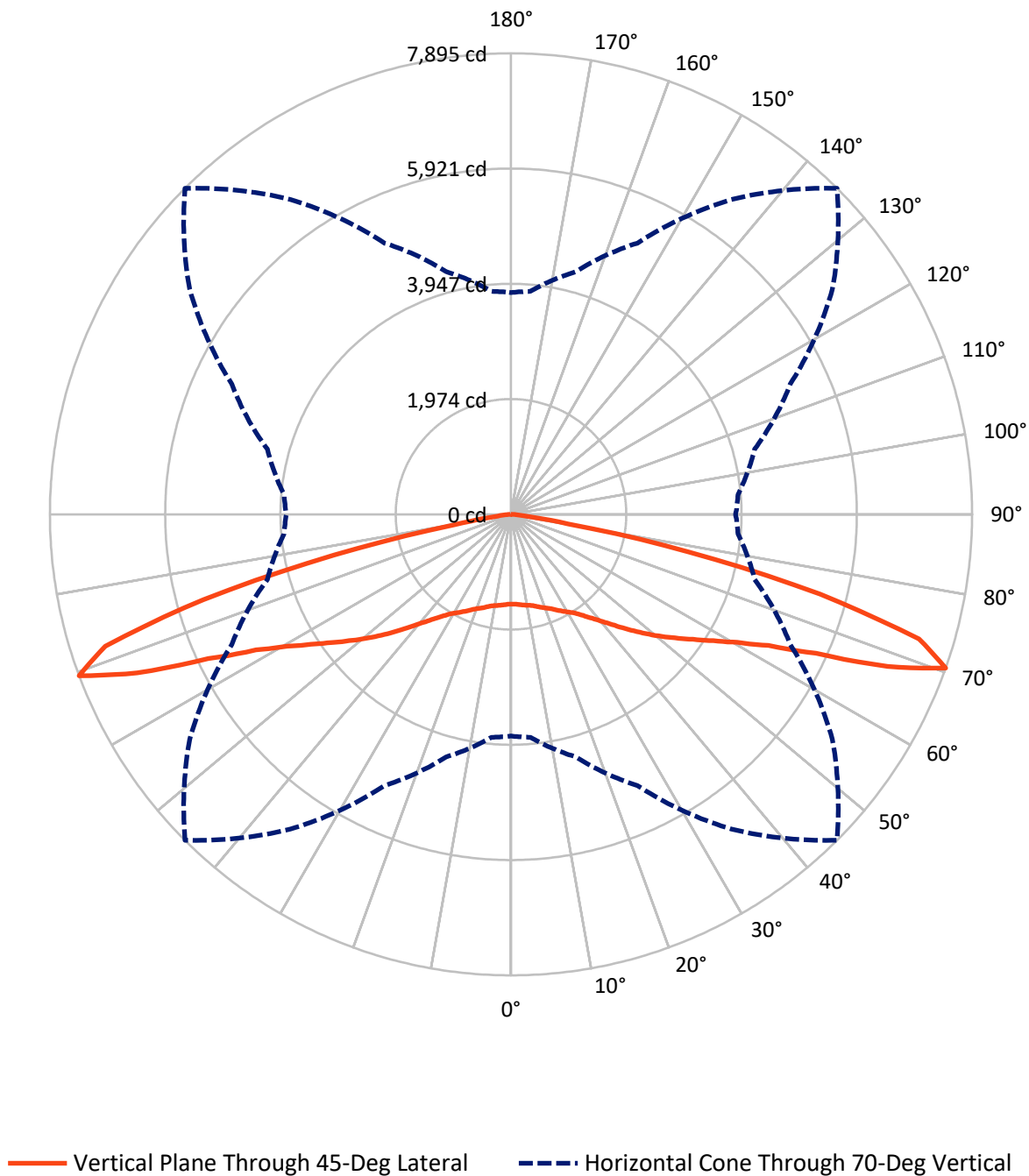
Based on 25 foot mounting height. Maximum calculated value = 2.5 fc

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	8038.6	0.0	8038.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8038.6	0.0	8038.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	16077.1	0.0	16077.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.6	0.9
10°-20°	463.9	2.9
20°-30°	829.1	5.2
30°-40°	1344.0	8.4
40°-50°	2189.1	13.6
50°-60°	3337.6	20.8
60°-70°	4965.3	30.9
70°-80°	2706.3	16.8
80°-90°	92.1	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°	16077.1	100.0
0°-180°	16077.1	100.0

Coefficient of Utilization



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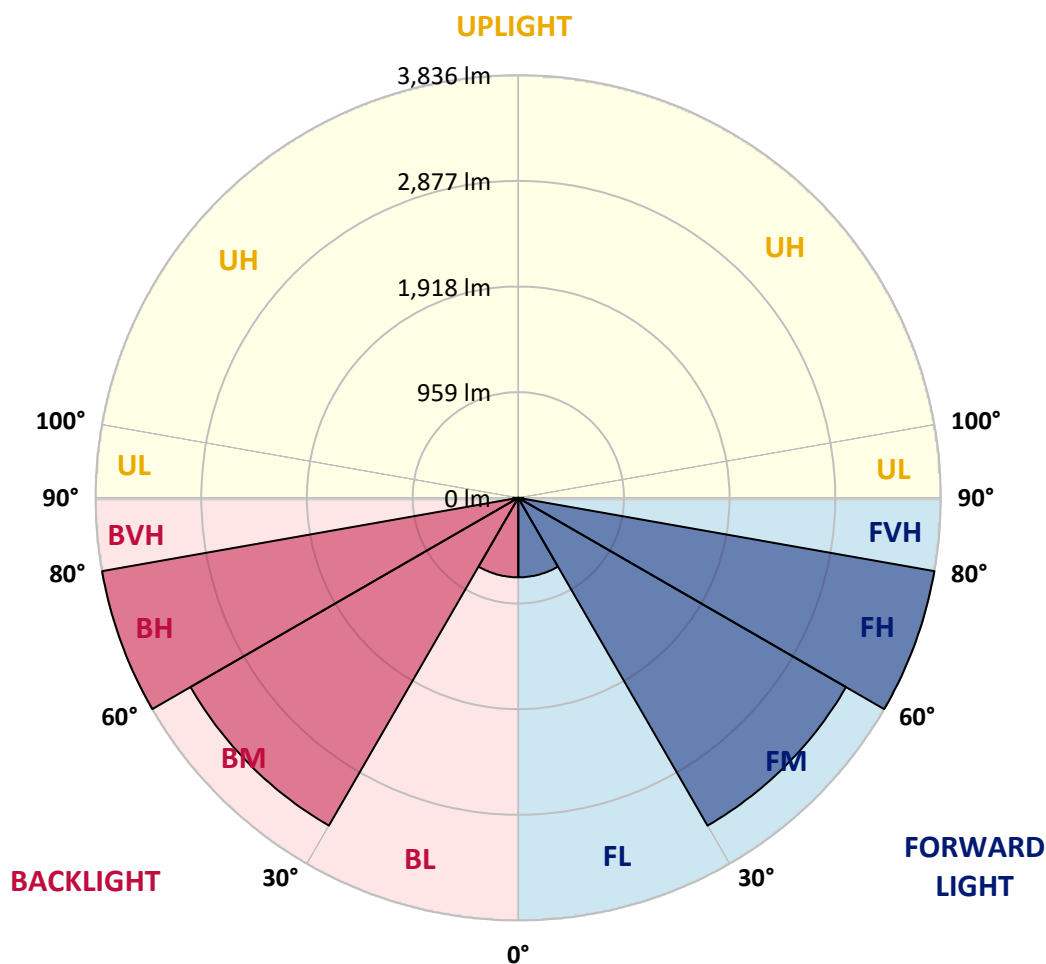
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	721.3	4.5			
FM	(30°-60°)	3435.3	21.4			
FH	(60°-80°)	3835.8	23.9			G2/5000
FVH	(80°-90°)	46.1	0.3			G1/100
BL	(0°-30°)	721.3	4.5	B2/1000		
BM	(30°-60°)	3435.3	21.4	B3/5000		
BH	(60°-80°)	3835.8	23.9	B4/5000		G2/5000
BVH	(80°-90°)	46.1	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°	1540.1	1540.1	1540.1	1540.1	1540.1	1540.1	1540.1	1540.1	1540.1	1540.1	1540.1
2.5°	1547.2	1548.9	1545.7	1544.1	1542.4	1540.1	1540.8	1544.9	1548.1	1547.2	1548.1
5°	1560.2	1561.8	1559.4	1558.6	1555.3	1554.5	1554.5	1558.6	1561.0	1559.4	1560.2
7.5°	1574.7	1577.2	1573.1	1572.4	1570.7	1569.1	1568.2	1572.4	1574.7	1574.7	1574.7
10°	1588.4	1590.9	1587.6	1585.3	1583.6	1583.6	1582.0	1585.3	1589.3	1588.4	1588.4
12.5°	1603.0	1604.6	1601.4	1599.7	1599.7	1602.2	1599.7	1601.4	1604.6	1603.0	1602.2
15°	1620.7	1621.6	1620.7	1623.2	1627.2	1635.3	1628.0	1626.4	1628.0	1624.0	1624.0
17.5°	1644.9	1646.6	1649.8	1655.5	1661.1	1675.7	1662.8	1658.7	1658.7	1650.6	1650.6
20°	1674.8	1677.2	1682.1	1691.8	1699.0	1712.8	1699.9	1694.2	1691.8	1681.3	1681.3
22.5°	1706.3	1710.3	1717.6	1730.5	1743.4	1756.3	1743.4	1733.7	1726.5	1712.8	1712.0
25°	1742.6	1747.4	1758.8	1779.7	1797.5	1816.1	1800.7	1781.3	1766.8	1747.4	1746.6
27.5°	1794.3	1799.9	1813.6	1839.5	1862.1	1878.2	1863.7	1838.6	1818.5	1795.1	1794.3
30°	1866.9	1872.6	1888.7	1916.1	1931.5	1942.0	1932.3	1913.0	1888.7	1862.1	1862.1
32.5°	1960.5	1967.8	1985.5	2011.4	2014.6	2016.3	2013.0	2003.4	1985.5	1953.2	1954.1
35°	2079.2	2087.3	2107.4	2128.4	2125.2	2128.4	2123.6	2120.3	2107.4	2070.3	2070.3
37.5°	2224.5	2234.2	2255.1	2271.3	2263.2	2259.2	2260.0	2260.8	2253.6	2212.4	2212.4
40°	2393.2	2406.1	2421.5	2438.4	2424.6	2412.5	2420.6	2427.1	2420.6	2378.6	2378.6
42.5°	2566.7	2585.3	2601.4	2625.6	2614.4	2599.0	2610.3	2617.5	2603.8	2558.6	2561.9
45°	2759.6	2777.3	2798.4	2834.6	2826.6	2810.4	2826.6	2828.2	2804.8	2751.5	2757.1
47.5°	2959.0	2977.5	3009.0	3057.5	3054.2	3036.5	3057.5	3046.1	3016.3	2952.5	2948.5
50°	3147.9	3173.7	3222.1	3289.9	3296.4	3274.6	3302.9	3281.0	3231.0	3151.1	3149.4
52.5°	3325.4	3352.9	3429.5	3521.6	3545.0	3516.7	3554.6	3516.7	3441.6	3339.1	3329.4
55°	3511.9	3542.5	3633.7	3754.0	3800.8	3779.8	3815.4	3758.1	3651.5	3527.2	3510.2
57.5°	3731.4	3750.0	3858.9	4001.8	4080.9	4085.8	4101.8	4005.0	3875.9	3734.6	3715.2
60°	3969.5	3995.3	4113.9	4285.1	4410.2	4450.5	4433.6	4289.9	4139.8	3977.6	3951.8
62.5°	4274.7	4302.8	4444.9	4649.9	4847.6	4947.8	4881.6	4673.4	4487.7	4293.2	4259.3
65°	4527.2	4558.7	4815.3	5181.1	5541.0	5741.9	5575.7	5192.3	4858.2	4583.7	4538.5
67.5°	4344.1	4382.8	4785.5	5457.1	6352.2	6951.9	6382.9	5539.4	4884.8	4512.8	4457.0
70°	3796.8	3833.1	4302.8	5123.8	6580.6	7894.7	6717.8	5274.6	4318.2	3901.7	3846.0
72.5°	2520.7	2637.7	3113.1	4097.8	5876.0	7305.4	5934.1	4014.7	2887.9	2515.0	2433.6
75°	836.2	929.8	1254.3	2124.4	3935.6	5463.6	3746.8	1879.8	993.6	715.1	676.4
77.5°	210.6	242.9	335.0	607.8	1569.9	3110.7	1413.3	496.4	270.4	188.9	168.7
80°	102.5	113.0	161.4	202.6	393.1	988.7	368.9	190.4	127.5	98.5	90.4
82.5°	56.5	57.3	91.2	114.6	146.1	255.8	151.7	111.4	73.5	59.8	59.8
85°	34.7	33.9	48.4	61.3	61.3	91.2	72.7	61.3	41.9	37.1	38.7
87.5°	13.7	13.7	17.7	19.4	16.9	23.4	18.6	20.2	16.1	15.4	16.1
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)