

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: P962633

Luminaire Tested: **NAV-SB2C-835-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962633
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-SB2C-835-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14662.6 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

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

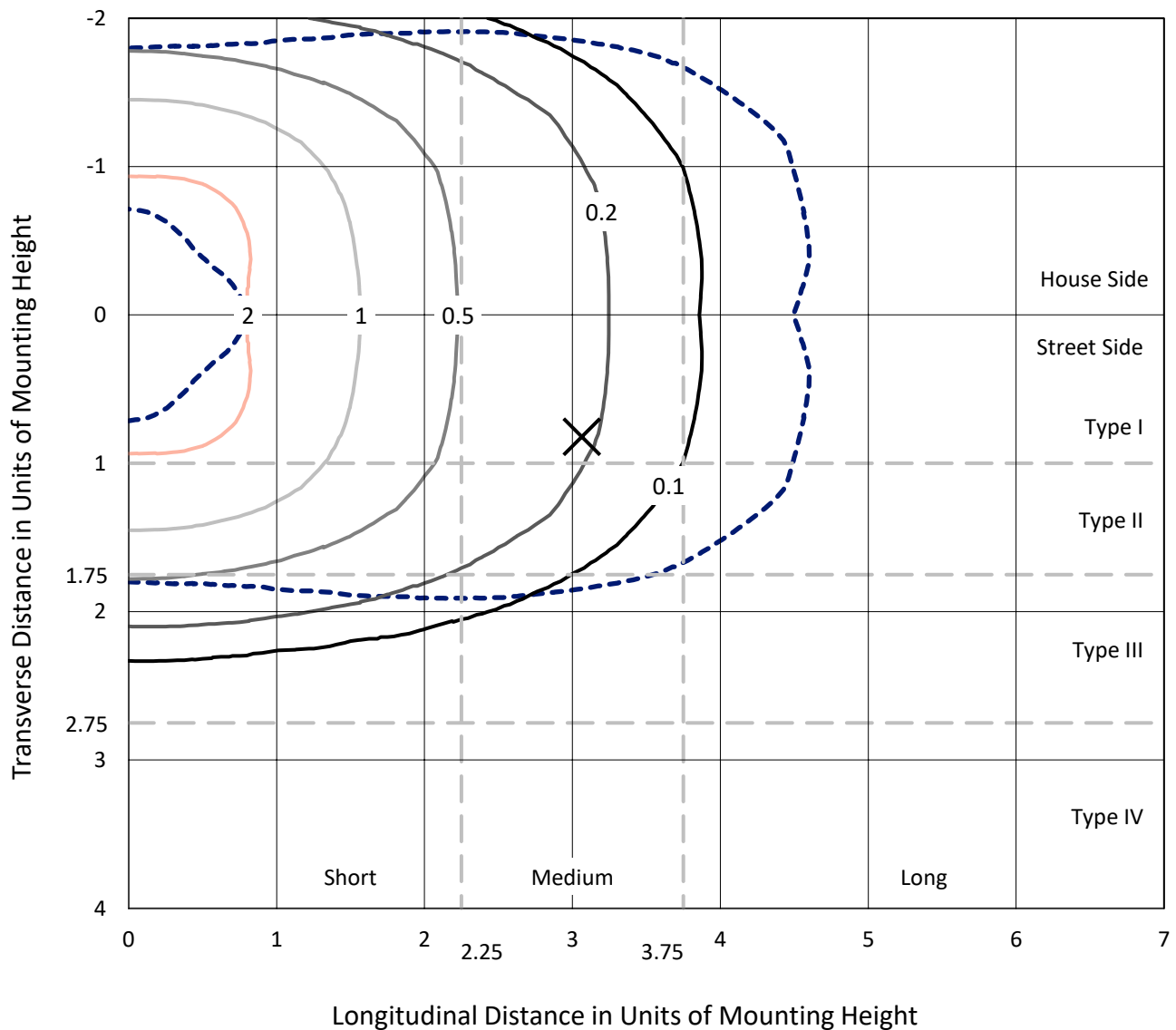


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Iso-Footcandle Lines of Horizontal Illumination

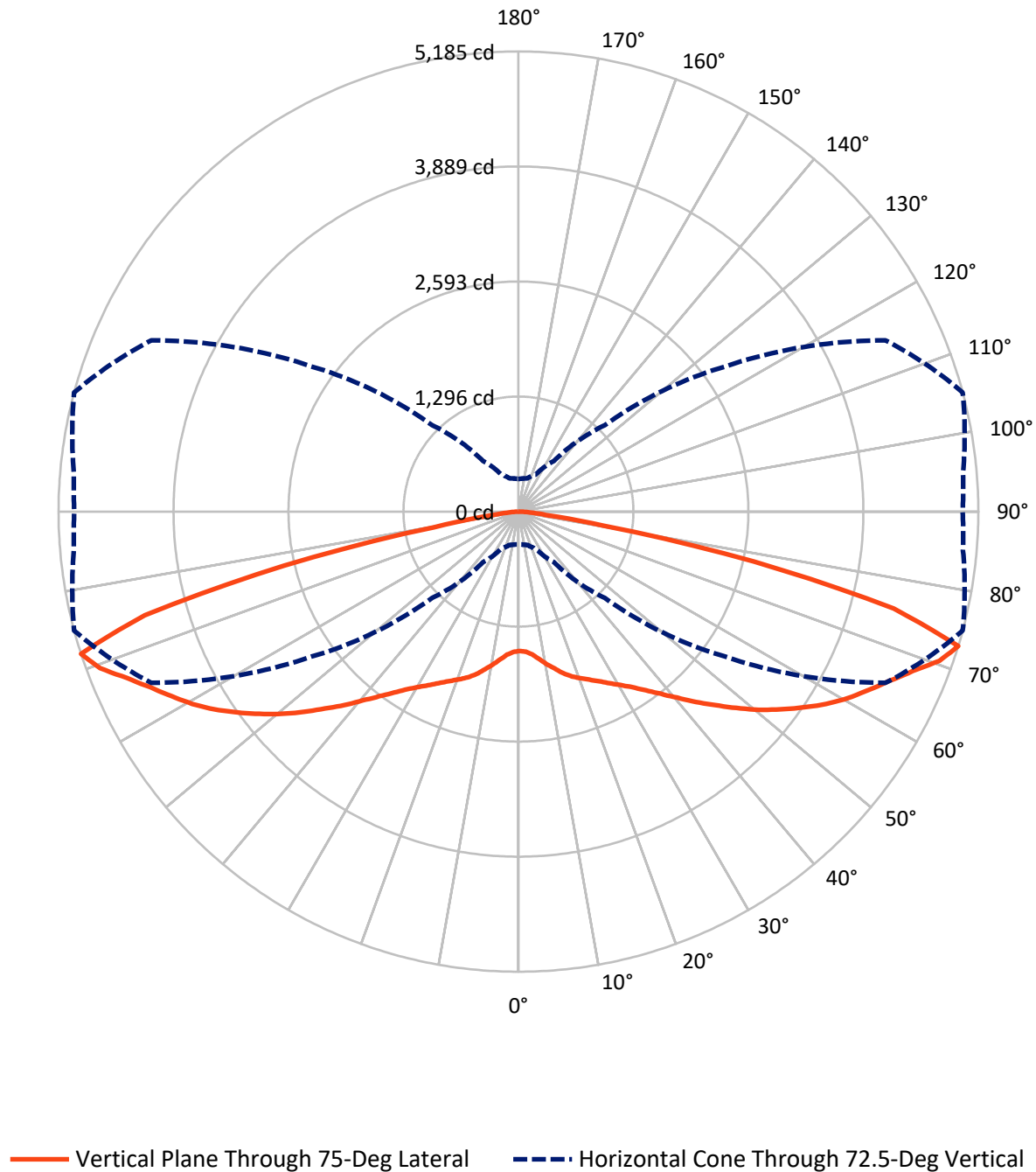
× Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7331.3	0.0	7331.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7331.3	0.0	7331.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	14662.6	0.0	14662.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.9	1.0
10°-20°	507.4	3.5
20°-30°	980.5	6.7
30°-40°	1655.7	11.3
40°-50°	2625.8	17.9
50°-60°	3515.6	24.0
60°-70°	3345.7	22.8
70°-80°	1745.8	11.9
80°-90°	132.1	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°	14662.6	100.0
0°-180°	14662.6	100.0

Coefficient of Utilization



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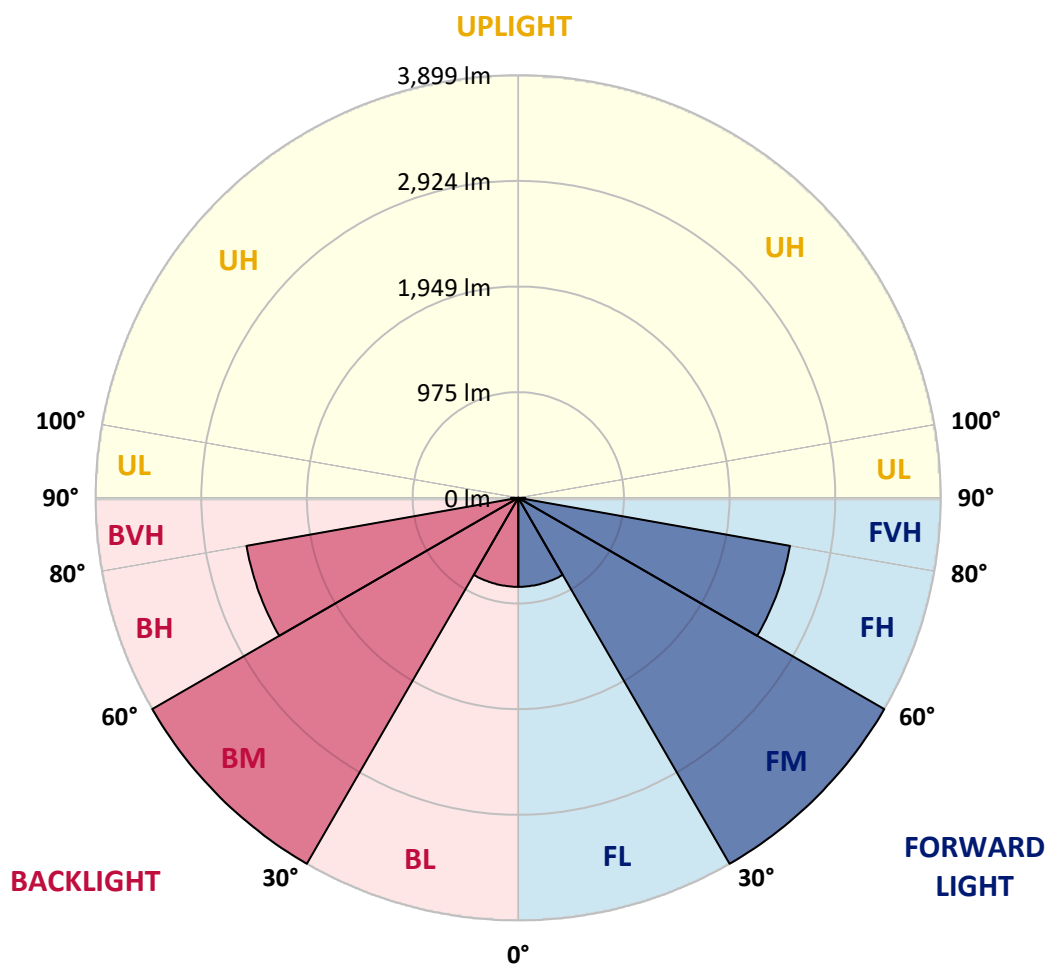
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	820.9	5.6			
FM	(30°-60°)	3898.5	26.6			
FH	(60°-80°)	2545.8	17.4			G2/5000
FVH	(80°-90°)	66.1	0.5			G1/100
BL	(0°-30°)	820.9	5.6	B2/1000		
BM	(30°-60°)	3898.5	26.6	B3/5000		
BH	(60°-80°)	2545.8	17.4	B4/5000		G4/5000
BVH	(80°-90°)	66.1	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1570.6	1570.6	1570.6	1570.6	1570.6	1570.6	1570.6	1570.6	1570.6	1570.6	1570.6
2.5°	1570.6	1569.2	1570.6	1572.1	1571.4	1571.4	1575.1	1577.4	1581.9	1581.1	1580.3
5°	1560.2	1559.4	1565.4	1572.1	1577.4	1586.4	1597.6	1605.8	1616.3	1618.6	1618.6
7.5°	1554.9	1552.7	1563.1	1575.1	1591.6	1614.1	1635.8	1658.2	1676.2	1682.1	1683.7
10°	1558.6	1559.4	1573.6	1596.1	1622.3	1653.7	1684.4	1722.6	1748.0	1754.1	1760.0
12.5°	1575.8	1574.4	1598.3	1634.3	1670.2	1709.9	1745.8	1787.7	1815.5	1829.6	1835.7
15°	1607.3	1604.3	1638.1	1691.1	1743.5	1790.0	1819.2	1858.8	1891.0	1909.0	1915.7
17.5°	1644.7	1646.3	1690.4	1759.3	1828.2	1880.6	1908.2	1928.4	1953.1	1968.9	1976.4
20°	1710.6	1713.6	1763.0	1844.6	1923.2	1983.2	2005.6	1998.1	2004.8	2016.8	2025.8
22.5°	1799.0	1800.4	1855.9	1944.2	2026.5	2092.4	2107.4	2076.8	2058.0	2066.2	2072.2
25°	1901.5	1911.2	1966.7	2057.3	2141.8	2204.7	2211.4	2165.0	2118.7	2120.8	2124.6
27.5°	2026.5	2035.5	2091.7	2181.5	2267.6	2322.2	2321.5	2259.4	2191.2	2174.0	2179.3
30°	2162.0	2171.8	2229.4	2322.2	2402.4	2450.3	2439.8	2365.7	2268.3	2236.1	2239.9
32.5°	2323.0	2329.0	2387.4	2480.2	2554.3	2592.5	2570.8	2479.5	2358.2	2321.5	2330.4
35°	2517.6	2526.6	2570.1	2657.6	2722.8	2754.2	2717.6	2609.8	2473.5	2432.3	2438.3
37.5°	2740.0	2734.0	2783.4	2861.3	2915.2	2934.7	2884.5	2756.4	2605.2	2556.6	2565.6
40°	2972.1	2969.1	3022.9	3097.9	3127.1	3139.1	3064.9	2924.9	2757.2	2704.8	2722.0
42.5°	3182.4	3180.2	3252.8	3335.9	3371.1	3357.6	3264.0	3103.8	2933.1	2873.3	2888.2
45°	3350.8	3347.9	3436.9	3553.8	3622.7	3600.2	3474.4	3301.4	3111.3	3049.2	3063.4
47.5°	3480.4	3481.9	3577.8	3722.2	3842.7	3850.9	3689.3	3502.8	3307.5	3237.1	3258.1
50°	3574.0	3578.5	3681.0	3841.2	4005.9	4078.6	3908.6	3709.5	3510.3	3431.0	3455.0
52.5°	3597.1	3605.4	3729.0	3916.8	4110.8	4249.2	4131.7	3907.8	3702.7	3627.2	3646.5
55°	3473.6	3490.1	3646.5	3910.9	4175.1	4361.6	4327.9	4109.2	3896.6	3818.7	3840.5
57.5°	3189.9	3213.2	3395.8	3740.9	4160.9	4438.7	4479.8	4302.4	4090.6	4015.6	4032.9
60°	2792.4	2820.1	2995.3	3371.8	3960.3	4467.1	4586.9	4490.3	4268.7	4196.0	4211.8
62.5°	2192.8	2228.7	2438.3	2879.9	3536.6	4334.6	4678.2	4660.3	4428.9	4338.3	4348.8
65°	1406.7	1444.8	1665.7	2187.5	2971.3	3928.8	4706.7	4825.7	4598.0	4471.6	4487.3
67.5°	848.2	865.4	974.7	1325.8	2171.8	3317.2	4465.6	5009.1	4795.8	4638.5	4650.5
70°	542.7	552.5	617.7	778.6	1227.7	2420.3	3868.1	5043.5	5035.3	4809.9	4808.5
72.5°	368.3	371.4	388.6	461.1	694.7	1375.2	2853.0	4565.9	5185.1	5030.8	5006.8
75°	269.5	286.0	313.6	326.4	394.5	687.3	1635.0	3207.8	4369.8	4437.1	4273.9
77.5°	200.6	201.4	239.5	254.5	281.5	366.1	691.8	1790.8	2713.1	2848.6	2540.9
80°	169.9	160.9	160.2	205.1	211.9	228.4	309.1	618.4	971.7	589.2	445.5
82.5°	141.4	131.7	119.0	160.2	144.5	140.0	134.0	251.5	309.1	152.0	129.6
85°	98.8	94.3	89.8	104.9	82.3	70.4	64.4	117.6	130.3	64.4	56.9
87.5°	42.6	44.2	44.9	46.4	34.4	24.7	24.7	32.9	32.9	25.4	18.8
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)