

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: P965733

Luminaire Tested: **NAV-SB4A-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965733
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-SB4A-827-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16500.5 lumens
Efficiency: N/A
Efficacy: 144.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 114
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

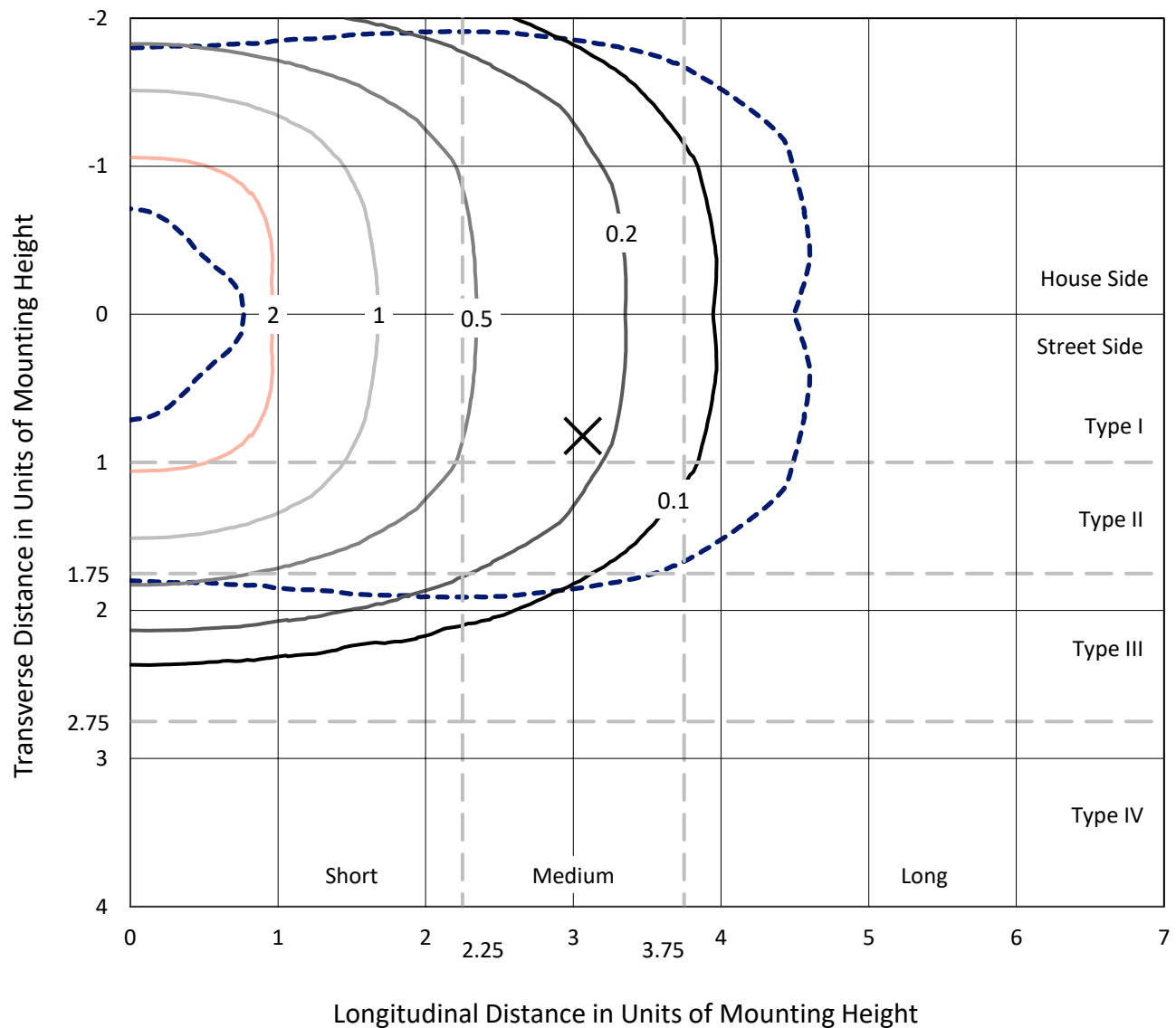


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

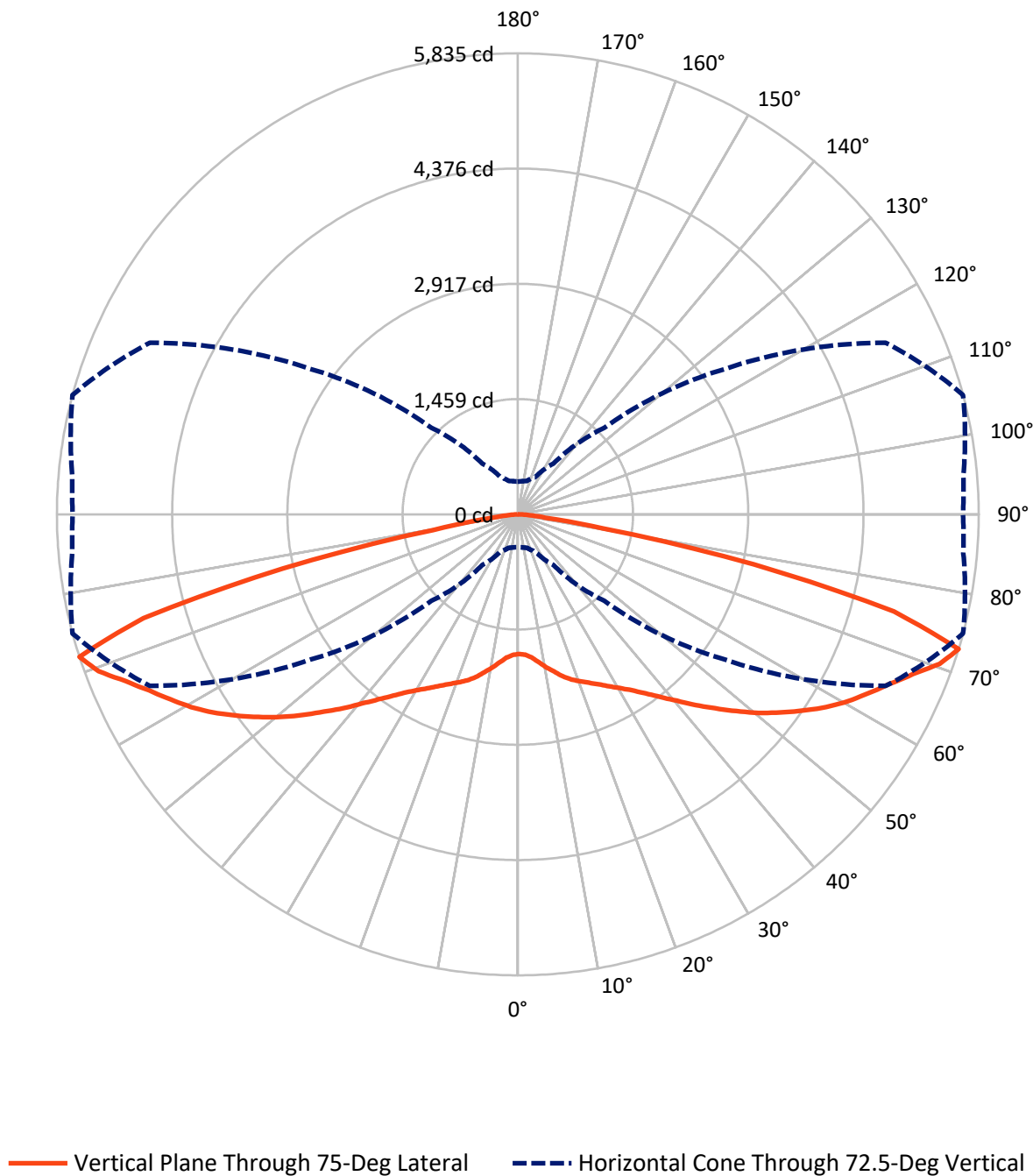


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8250.2	0.0	8250.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8250.2	0.0	8250.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	16500.5	0.0	16500.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.1	1.0
10°-20°	571.1	3.5
20°-30°	1103.4	6.7
30°-40°	1863.2	11.3
40°-50°	2954.9	17.9
50°-60°	3956.2	24.0
60°-70°	3765.1	22.8
70°-80°	1964.7	11.9
80°-90°	148.7	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°	16500.5	100.0
0°-180°	16500.5	100.0

Coefficient of Utilization



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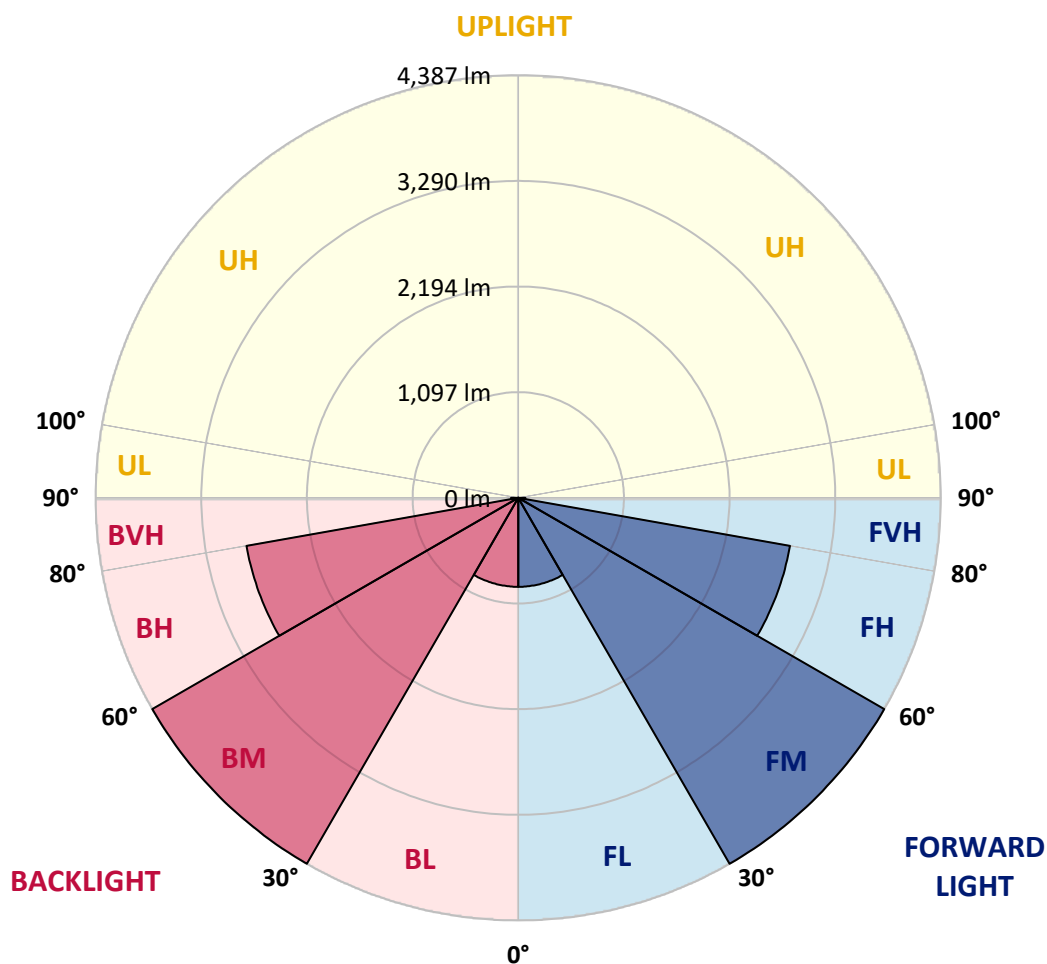
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	923.8	5.6			
FM	(30°-60°)	4387.2	26.6			
FH	(60°-80°)	2864.9	17.4			G2/5000
FVH	(80°-90°)	74.4	0.5			G1/100
BL	(0°-30°)	923.8	5.6	B2/1000		
BM	(30°-60°)	4387.2	26.6	B3/5000		
BH	(60°-80°)	2864.9	17.4	B4/5000		G4/5000
BVH	(80°-90°)	74.4	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°	1767.5	1767.5	1767.5	1767.5	1767.5	1767.5	1767.5	1767.5	1767.5	1767.5	1767.5
2.5°	1767.5	1765.8	1767.5	1769.2	1768.3	1768.3	1772.5	1775.1	1780.1	1779.3	1778.5
5°	1755.7	1754.9	1761.6	1769.2	1775.1	1785.1	1797.8	1807.1	1818.9	1821.4	1821.4
7.5°	1749.8	1747.3	1759.1	1772.5	1791.1	1816.4	1840.8	1866.0	1886.3	1893.0	1894.7
10°	1754.0	1754.9	1770.9	1796.1	1825.6	1861.0	1895.5	1938.5	1967.2	1973.9	1980.6
12.5°	1773.4	1771.7	1798.7	1839.1	1879.5	1924.2	1964.6	2011.8	2043.0	2059.0	2065.7
15°	1808.8	1805.4	1843.4	1903.1	1962.1	2014.3	2047.2	2091.8	2128.1	2148.3	2155.9
17.5°	1850.9	1852.6	1902.3	1979.8	2057.3	2116.3	2147.5	2170.2	2198.0	2215.6	2224.1
20°	1925.1	1928.4	1984.0	2075.8	2164.3	2231.7	2256.9	2248.5	2256.1	2269.6	2279.7
22.5°	2024.5	2026.1	2088.4	2187.9	2280.5	2354.7	2371.5	2337.0	2316.0	2325.2	2332.0
25°	2139.9	2150.9	2213.2	2315.1	2410.3	2481.0	2488.6	2436.4	2384.1	2386.7	2390.9
27.5°	2280.5	2290.7	2353.8	2455.0	2551.8	2613.3	2612.5	2542.5	2465.9	2446.5	2452.4
30°	2433.0	2444.0	2508.9	2613.3	2703.4	2757.4	2745.6	2662.2	2552.7	2516.5	2520.7
32.5°	2614.2	2620.9	2686.6	2791.1	2874.5	2917.5	2893.1	2790.3	2653.7	2612.5	2622.6
35°	2833.2	2843.4	2892.1	2990.7	3064.0	3099.4	3058.2	2936.8	2783.5	2737.2	2743.9
37.5°	3083.4	3076.6	3132.3	3219.9	3280.5	3302.4	3246.1	3102.0	2931.8	2877.0	2887.1
40°	3344.6	3341.2	3401.9	3486.1	3519.0	3532.5	3449.0	3291.5	3102.8	3043.8	3063.2
42.5°	3581.4	3578.8	3660.5	3754.1	3793.6	3778.5	3673.2	3492.9	3300.8	3233.4	3250.3
45°	3770.9	3767.5	3867.7	3999.1	4076.7	4051.4	3909.9	3715.3	3501.3	3431.4	3447.4
47.5°	3916.6	3918.3	4026.1	4188.8	4324.4	4333.6	4151.7	3941.9	3722.0	3642.8	3666.4
50°	4021.9	4027.0	4142.4	4322.7	4508.1	4589.7	4398.5	4174.4	3950.3	3861.1	3888.0
52.5°	4048.0	4057.4	4196.3	4407.8	4626.0	4781.8	4649.6	4397.7	4166.8	4081.8	4103.7
55°	3909.0	3927.6	4103.7	4401.0	4698.4	4908.2	4870.3	4624.3	4385.1	4297.4	4321.8
57.5°	3589.8	3615.9	3821.4	4209.8	4682.4	4995.0	5041.4	4841.7	4603.3	4519.0	4538.4
60°	3142.4	3173.6	3370.7	3794.4	4456.6	5027.0	5161.8	5053.1	4803.8	4722.1	4739.7
62.5°	2467.6	2508.0	2743.9	3240.9	3979.8	4877.9	5264.6	5244.3	4984.1	4882.1	4893.9
65°	1583.0	1626.0	1874.5	2461.6	3343.8	4421.2	5296.6	5430.6	5174.4	5032.0	5049.8
67.5°	954.5	973.9	1096.9	1492.0	2444.0	3732.9	5025.3	5637.0	5396.8	5219.9	5233.4
70°	610.8	621.8	695.1	876.2	1381.6	2723.7	4353.1	5675.7	5666.4	5412.8	5411.2
72.5°	414.5	417.9	437.3	519.0	781.8	1547.6	3210.6	5138.2	5834.9	5661.4	5634.4
75°	303.3	321.8	353.0	367.4	444.0	773.4	1840.0	3609.9	4917.4	4993.3	4809.6
77.5°	225.8	226.6	269.6	286.5	316.7	411.9	778.5	2015.2	3053.1	3205.6	2859.3
80°	191.3	181.1	180.3	230.8	238.4	257.0	348.0	695.9	1093.5	663.0	501.2
82.5°	159.2	148.3	134.0	180.3	162.6	157.5	150.8	283.1	348.0	171.0	145.8
85°	111.2	106.2	101.1	118.0	92.7	79.2	72.5	132.2	146.6	72.5	64.1
87.5°	48.0	49.7	50.5	52.3	38.7	27.8	27.8	37.1	37.1	28.6	21.0
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)