

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: P964152

Luminaire Tested: **NAV-SB3B-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964152
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-SB3B-827-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15507.2 lumens
Efficiency: N/A
Efficacy: 142.0 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): 109.2
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

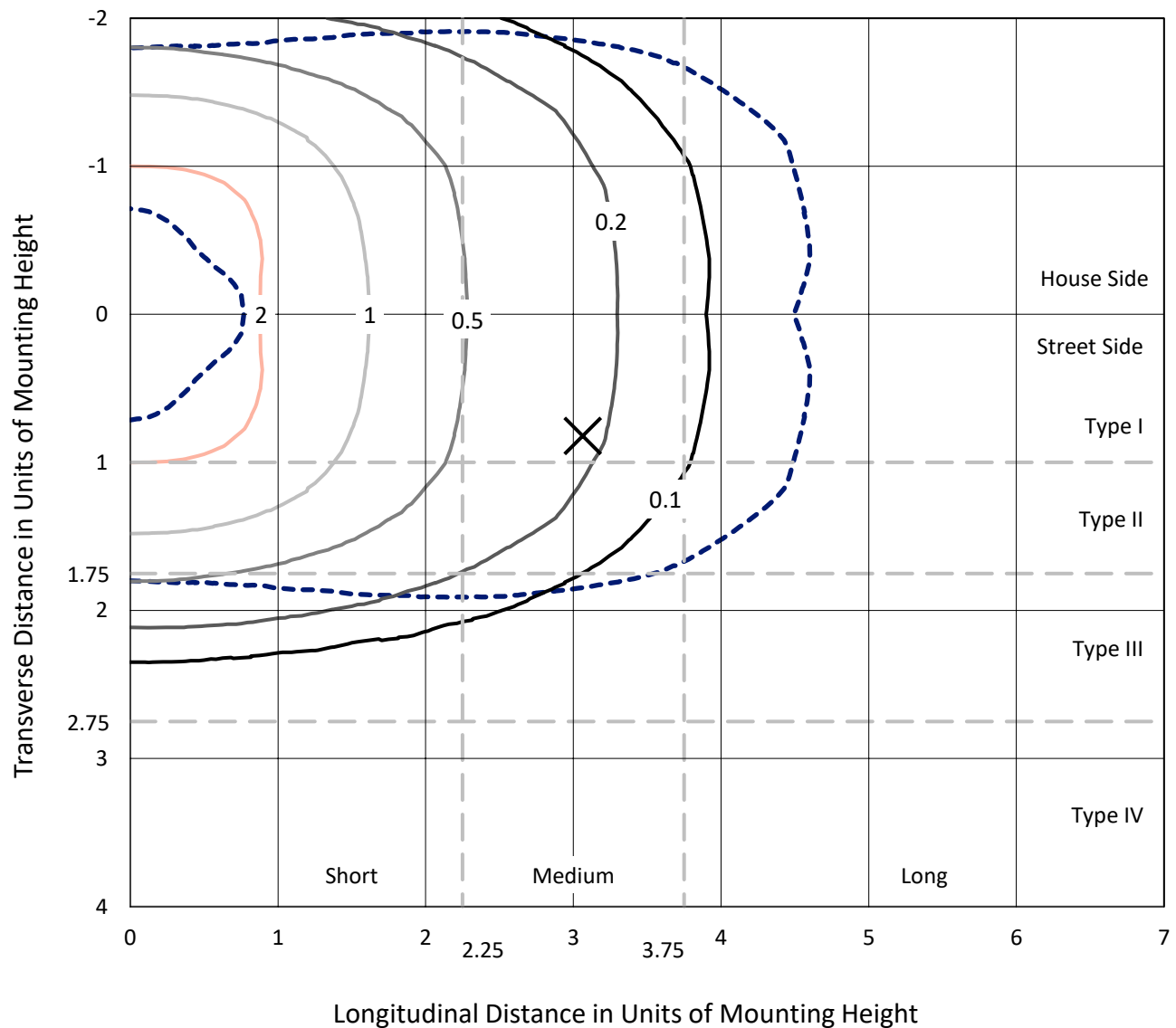


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Iso-Footcandle Lines of Horizontal Illumination

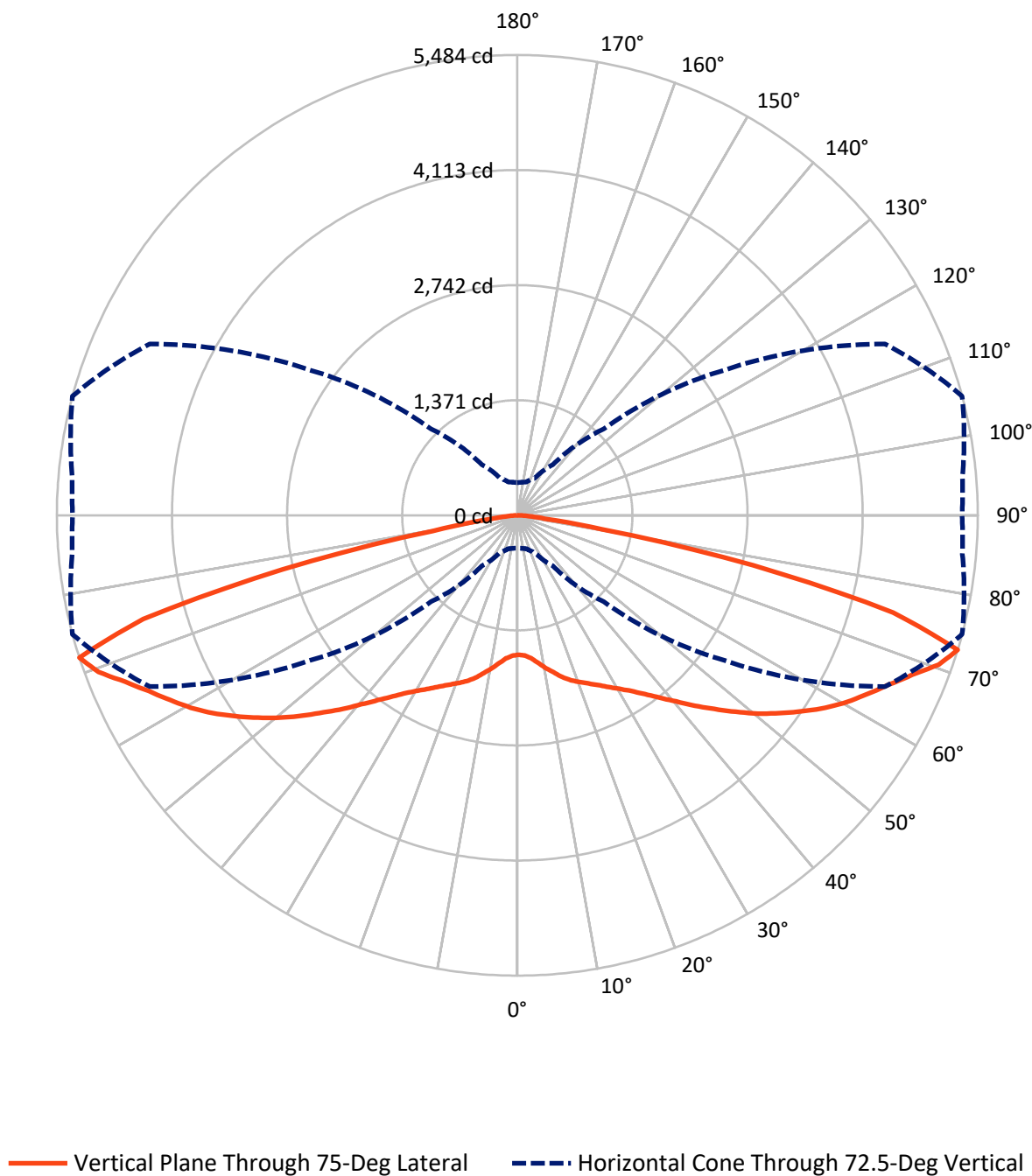
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	7753.6	0.0	7753.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7753.6	0.0	7753.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	15507.2	0.0	15507.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.7	1.0
10°-20°	536.7	3.5
20°-30°	1037.0	6.7
30°-40°	1751.1	11.3
40°-50°	2777.0	17.9
50°-60°	3718.1	24.0
60°-70°	3538.4	22.8
70°-80°	1846.4	11.9
80°-90°	139.8	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°	15507.2	100.0
0°-180°	15507.2	100.0

Coefficient of Utilization



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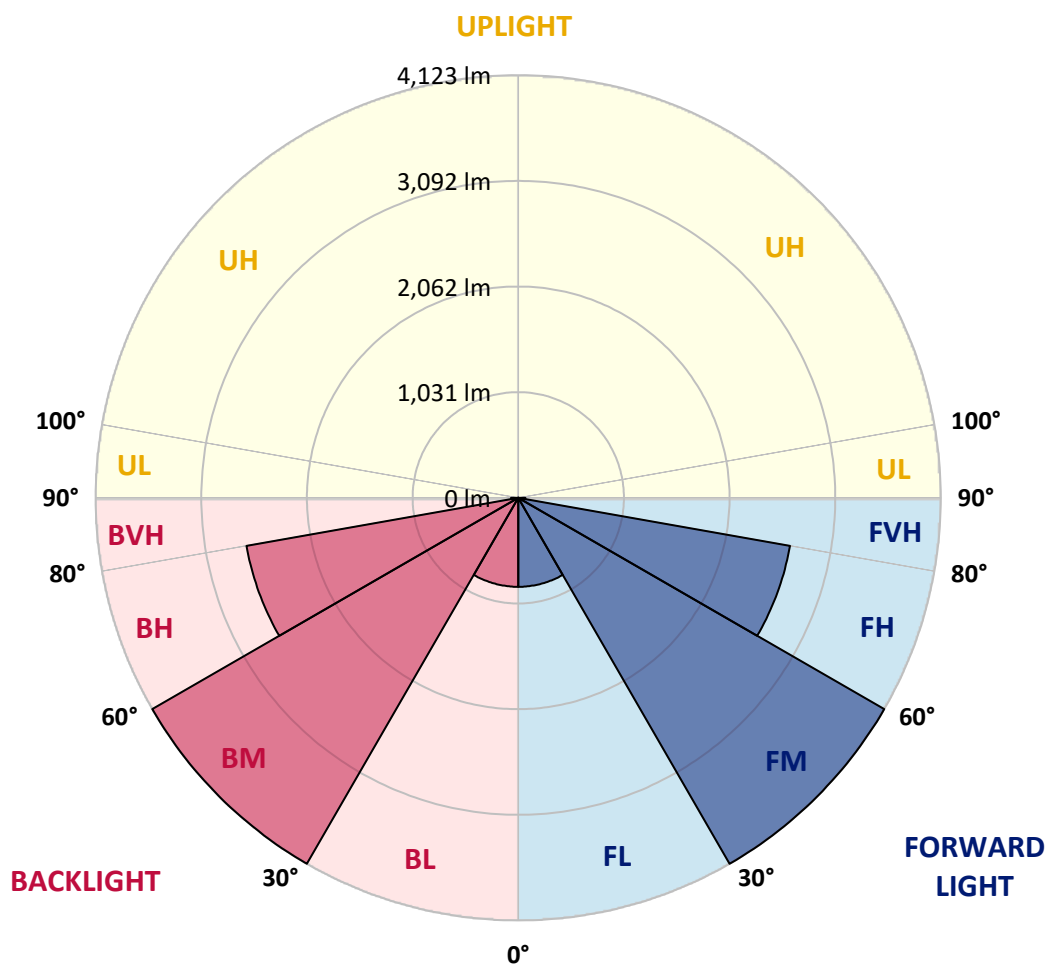
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	868.2	5.6			
FM	(30°-60°)	4123.1	26.6			
FH	(60°-80°)	2692.4	17.4			G2/5000
FVH	(80°-90°)	69.9	0.5			G1/100
BL	(0°-30°)	868.2	5.6	B2/1000		
BM	(30°-60°)	4123.1	26.6	B3/5000		
BH	(60°-80°)	2692.4	17.4	B4/5000		G4/5000
BVH	(80°-90°)	69.9	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°	1661.1	1661.1	1661.1	1661.1	1661.1	1661.1	1661.1	1661.1	1661.1	1661.1	1661.1
2.5°	1661.1	1659.5	1661.1	1662.7	1661.9	1661.9	1665.8	1668.2	1673.0	1672.2	1671.4
5°	1650.0	1649.2	1655.6	1662.7	1668.2	1677.7	1689.6	1698.3	1709.4	1711.7	1711.7
7.5°	1644.5	1642.0	1653.2	1665.8	1683.3	1707.0	1730.0	1753.8	1772.7	1779.1	1780.6
10°	1648.4	1649.2	1664.3	1688.0	1715.7	1749.0	1781.4	1821.8	1848.8	1855.0	1861.4
12.5°	1666.6	1665.0	1690.4	1728.4	1766.4	1808.4	1846.3	1890.7	1920.0	1935.1	1941.4
15°	1699.9	1696.7	1732.4	1788.6	1844.0	1893.1	1923.9	1966.0	2000.0	2018.9	2026.1
17.5°	1739.5	1741.1	1787.8	1860.6	1933.5	1988.9	2018.2	2039.5	2065.7	2082.3	2090.3
20°	1809.1	1812.3	1864.6	1950.9	2034.0	2097.4	2121.1	2113.2	2120.3	2133.0	2142.5
22.5°	1902.6	1904.1	1962.8	2056.1	2143.3	2213.0	2228.8	2196.4	2176.5	2185.2	2191.6
25°	2011.0	2021.3	2079.9	2175.8	2265.2	2331.7	2338.8	2289.7	2240.6	2243.0	2247.0
27.5°	2143.3	2152.8	2212.2	2307.2	2398.2	2456.0	2455.2	2389.5	2317.4	2299.3	2304.8
30°	2286.6	2296.9	2357.8	2456.0	2540.8	2591.4	2580.3	2501.9	2399.0	2365.0	2369.0
32.5°	2456.8	2463.2	2524.9	2623.1	2701.5	2741.9	2718.9	2622.3	2494.0	2455.2	2464.7
35°	2662.6	2672.2	2718.1	2810.8	2879.6	2912.8	2874.1	2760.0	2616.0	2572.4	2578.7
37.5°	2897.8	2891.5	2943.7	3026.1	3083.1	3103.7	3050.6	2915.2	2755.3	2703.8	2713.4
40°	3143.3	3140.1	3197.1	3276.3	3307.2	3319.9	3241.5	3093.3	2916.0	2860.6	2878.8
42.5°	3365.8	3363.3	3440.2	3528.0	3565.3	3551.0	3452.1	3282.7	3102.1	3038.7	3054.6
45°	3543.9	3540.8	3635.0	3758.5	3831.3	3807.6	3674.5	3491.7	3290.6	3224.9	3239.8
47.5°	3680.9	3682.4	3783.8	3936.6	4064.1	4072.8	3901.8	3704.7	3498.0	3423.5	3445.7
50°	3779.8	3784.6	3893.1	4062.5	4236.6	4313.5	4133.7	3923.2	3712.6	3628.6	3653.9
52.5°	3804.4	3813.1	3943.7	4142.4	4347.5	4494.0	4369.7	4133.0	3916.0	3836.1	3856.7
55°	3673.7	3691.1	3856.7	4136.1	4415.6	4612.8	4577.1	4345.9	4121.1	4038.7	4061.7
57.5°	3373.7	3398.2	3591.4	3956.4	4400.5	4694.3	4737.9	4550.2	4326.1	4247.0	4265.2
60°	2953.2	2982.5	3167.8	3566.1	4188.4	4724.4	4851.1	4748.9	4514.6	4437.7	4454.4
62.5°	2319.1	2357.1	2578.7	3045.9	3740.2	4584.2	4947.7	4928.7	4684.0	4588.2	4599.3
65°	1487.7	1528.1	1761.7	2313.5	3142.4	4155.1	4977.8	5103.7	4862.9	4729.1	4745.8
67.5°	897.1	915.2	1030.8	1402.2	2296.9	3508.3	4722.8	5297.6	5072.0	4905.8	4918.4
70°	574.0	584.4	653.2	823.4	1298.5	2559.7	4091.0	5334.1	5325.4	5087.1	5085.4
72.5°	389.5	392.7	410.9	487.7	734.7	1454.5	3017.4	4828.9	5483.6	5320.6	5295.3
75°	285.1	302.5	331.8	345.2	417.3	726.8	1729.2	3392.6	4621.5	4692.8	4520.1
77.5°	212.2	213.0	253.4	269.2	297.7	387.1	731.5	1893.9	2869.3	3012.6	2687.2
80°	179.7	170.3	169.4	216.9	224.1	241.5	327.0	653.9	1027.7	623.1	471.1
82.5°	149.6	139.4	125.9	169.4	152.8	148.0	141.8	266.0	327.0	160.7	136.9
85°	104.6	99.7	95.0	110.8	87.1	74.4	68.1	124.3	137.8	68.1	60.2
87.5°	45.1	46.7	47.5	49.1	36.4	26.1	26.1	34.8	34.8	27.0	19.8
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)