

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: P964214

Luminaire Tested: **NAV-SB3B-835-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P964214  
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-835-U-RW  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

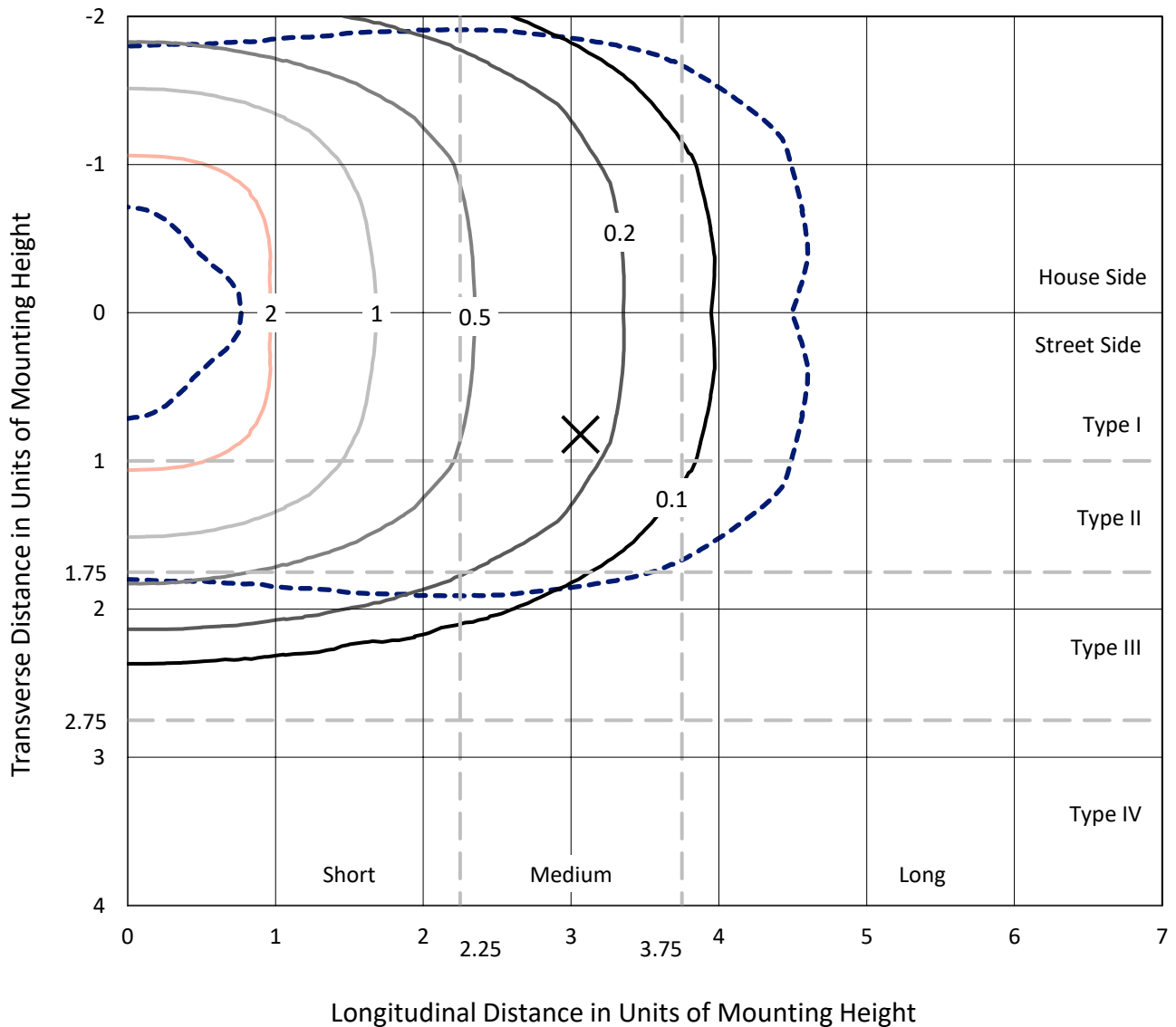
Lumens per Lamp: N/A  
Luminaire Lumens: 16540.4 lumens  
Efficiency: N/A  
Efficacy: 151.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): 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



REPORT NUMBER: P964214  
 CATALOG NUMBER: NAV-SB3B-835-U-RW

### Iso-Footcandle Lines of Horizontal Illumination

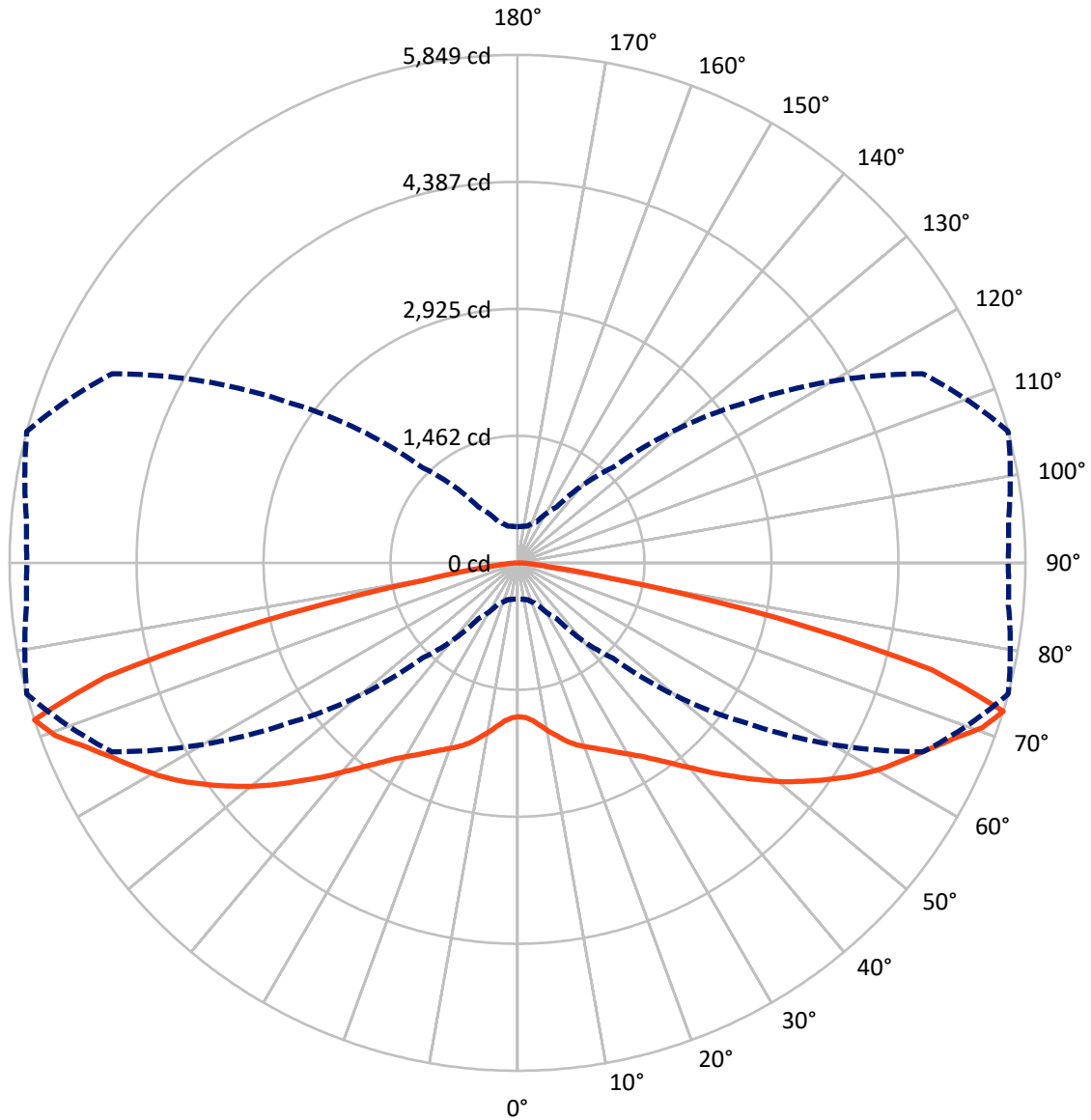
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P964214  
CATALOG NUMBER: NAV-SB3B-835-U-RW

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P964214  
 CATALOG NUMBER: NAV-SB3B-835-U-RW

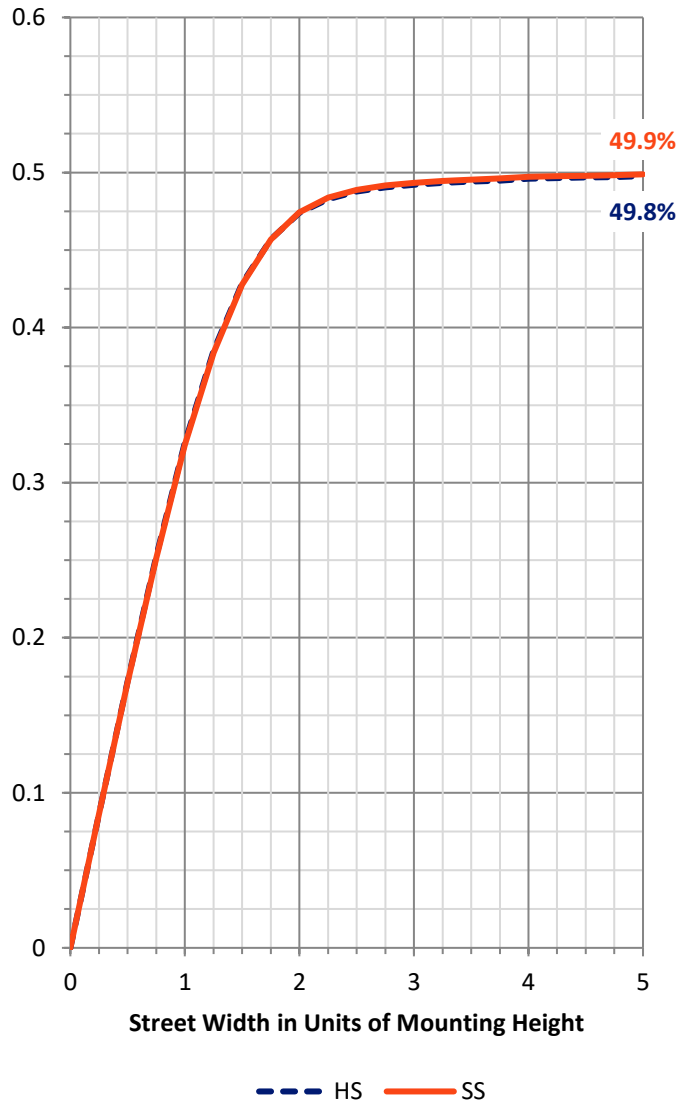
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8270.2	0.0	8270.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8270.2	0.0	8270.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16540.4	0.0	16540.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.6	1.0
10°-20°	572.4	3.5
20°-30°	1106.1	6.7
30°-40°	1867.7	11.3
40°-50°	2962.0	17.9
50°-60°	3965.8	24.0
60°-70°	3774.2	22.8
70°-80°	1969.4	11.9
80°-90°	149.1	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°	16540.4	100.0
0°-180°	16540.4	100.0

**Coefficient of Utilization**



REPORT NUMBER: P964214

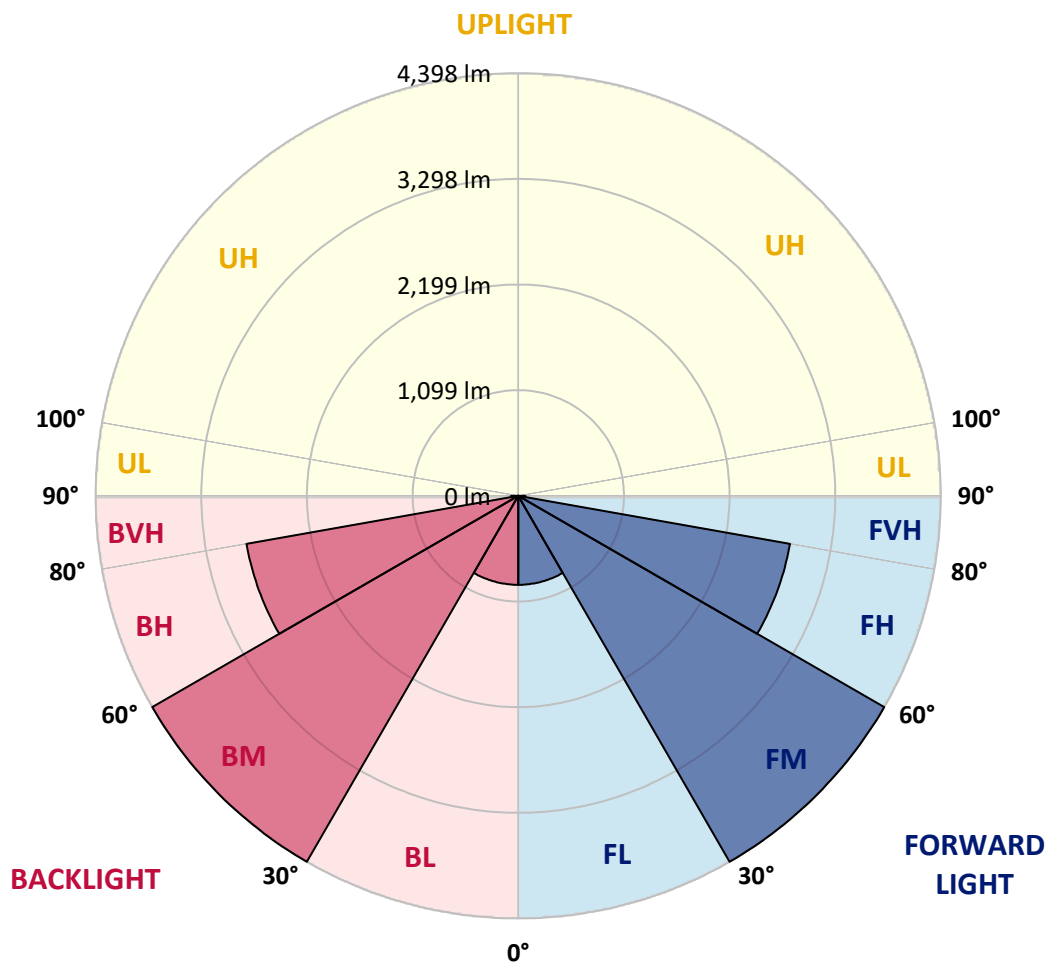
CATALOG NUMBER: NAV-SB3B-835-U-RW

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	926.1	5.6			
FM (30°-60°)	4397.8	26.6			
FH (60°-80°)	2871.8	17.4			G2/5000
FVH (80°-90°)	74.5	0.5			G1/100
BL (0°-30°)	926.1	5.6	B2/1000		
BM (30°-60°)	4397.8	26.6	B3/5000		
BH (60°-80°)	2871.8	17.4	B4/5000		G4/5000
BVH (80°-90°)	74.5	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



REPORT NUMBER: P964214  
 CATALOG NUMBER: NAV-SB3B-835-U-RW

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1771.8	1771.8	1771.8	1771.8	1771.8	1771.8	1771.8	1771.8	1771.8	1771.8	1771.8
2.5°	1771.8	1770.1	1771.8	1773.5	1772.6	1772.6	1776.8	1779.4	1784.4	1783.6	1782.8
5°	1759.9	1759.1	1765.9	1773.5	1779.4	1789.5	1802.2	1811.5	1823.3	1825.8	1825.8
7.5°	1754.1	1751.5	1763.3	1776.8	1795.4	1820.7	1845.2	1870.6	1890.8	1897.6	1899.3
10°	1758.3	1759.1	1775.2	1800.5	1830.0	1865.5	1900.1	1943.2	1971.9	1978.7	1985.4
12.5°	1777.7	1776.0	1803.0	1843.6	1884.1	1928.8	1969.4	2016.7	2048.0	2063.9	2070.7
15°	1813.1	1809.7	1847.8	1907.7	1966.9	2019.2	2052.2	2096.9	2133.2	2153.5	2161.1
17.5°	1855.4	1857.1	1906.9	1984.6	2062.3	2121.4	2152.6	2175.5	2203.3	2221.1	2229.5
20°	1929.7	1933.0	1988.8	2080.9	2169.5	2237.1	2262.5	2254.0	2261.6	2275.1	2285.2
22.5°	2029.4	2031.0	2093.6	2193.2	2286.1	2360.4	2377.3	2342.6	2321.5	2330.8	2337.6
25°	2145.0	2156.0	2218.5	2320.7	2416.1	2487.1	2494.6	2442.3	2390.0	2392.5	2396.8
27.5°	2286.1	2296.2	2359.5	2460.9	2558.0	2619.7	2618.8	2548.8	2471.9	2452.4	2458.4
30°	2438.9	2450.0	2514.9	2619.7	2710.0	2764.1	2752.2	2668.7	2558.8	2522.5	2526.7
32.5°	2620.5	2627.3	2693.1	2797.8	2881.5	2924.5	2900.0	2797.0	2660.2	2618.8	2628.9
35°	2840.1	2850.2	2899.2	2998.0	3071.5	3107.0	3065.6	2943.9	2790.3	2743.8	2750.6
37.5°	3090.9	3084.1	3139.9	3227.7	3288.5	3310.4	3253.9	3109.4	2938.9	2884.0	2894.1
40°	3352.7	3349.3	3410.1	3494.5	3527.5	3541.1	3457.4	3299.5	3110.4	3051.2	3070.6
42.5°	3590.0	3587.5	3669.4	3763.1	3802.9	3787.6	3682.0	3501.3	3308.8	3241.3	3258.1
45°	3780.0	3776.6	3877.2	4008.9	4086.6	4061.3	3919.4	3724.2	3509.8	3439.7	3455.7
47.5°	3926.2	3927.8	4035.9	4198.9	4334.8	4344.2	4161.7	3951.5	3731.0	3651.7	3675.3
50°	4031.6	4036.8	4152.5	4333.2	4518.9	4600.9	4409.1	4184.6	3959.9	3870.4	3897.4
52.5°	4057.9	4067.1	4206.5	4418.5	4637.2	4793.4	4660.9	4408.3	4177.0	4091.6	4113.6
55°	3918.5	3937.1	4113.6	4411.7	4709.8	4920.1	4882.1	4635.5	4395.6	4307.9	4332.4
57.5°	3598.5	3624.6	3830.7	4220.0	4693.8	5007.1	5053.6	4853.4	4614.3	4529.9	4549.4
60°	3150.0	3181.3	3378.9	3803.7	4467.5	5039.2	5174.3	5065.3	4815.3	4733.4	4751.2
62.5°	2473.5	2514.1	2750.6	3248.8	3989.4	4889.7	5277.3	5257.0	4996.1	4894.0	4905.8
65°	1586.8	1629.9	1879.0	2467.7	3351.9	4432.0	5309.4	5443.7	5187.0	5044.2	5062.0
67.5°	956.8	976.2	1099.5	1495.6	2450.0	3742.0	5037.5	5650.6	5410.0	5232.5	5246.1
70°	612.2	623.2	696.7	878.3	1385.0	2730.3	4363.5	5689.5	5680.1	5425.9	5424.3
72.5°	415.5	418.9	438.3	520.2	783.7	1551.3	3218.4	5150.6	5849.1	5675.1	5648.1
75°	304.0	322.6	353.8	368.2	445.1	775.2	1844.4	3618.8	4929.4	5005.4	4821.3
77.5°	226.3	227.1	270.3	287.1	317.5	413.0	780.3	2020.1	3060.4	3213.4	2866.2
80°	191.7	181.5	180.7	231.4	239.0	257.6	348.8	697.5	1096.1	664.6	502.5
82.5°	159.6	148.6	134.3	180.7	163.0	158.0	151.2	283.7	348.8	171.5	146.1
85°	111.5	106.4	101.4	118.2	92.9	79.3	72.7	132.6	147.0	72.7	64.2
87.5°	48.2	49.8	50.6	52.4	38.8	27.9	27.9	37.2	37.2	28.7	21.1
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)