

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: P885012

Luminaire Tested: **NAV-SB6A-835-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-835-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23237 lumens
Efficiency: N/A
Efficacy: 136.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

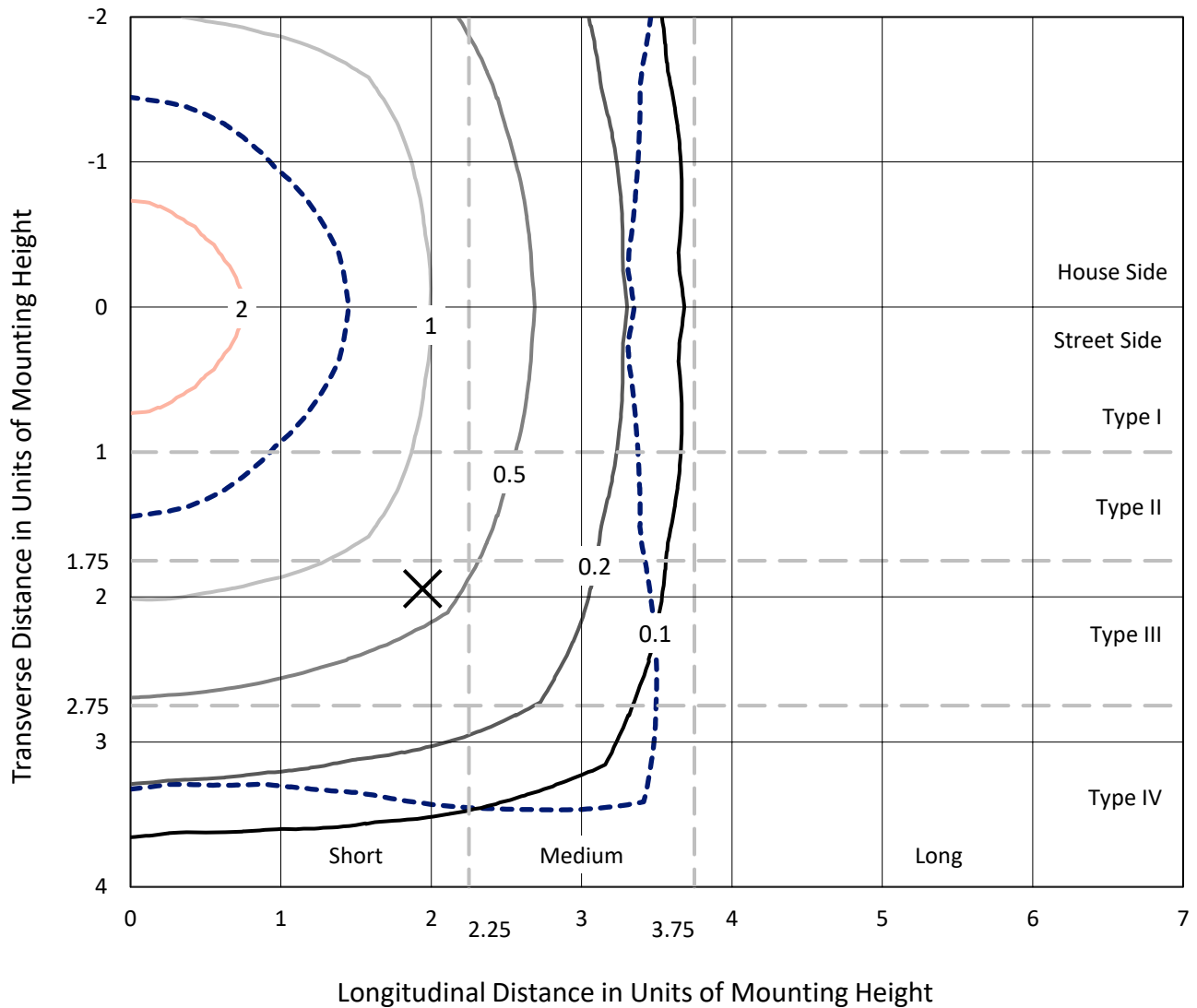
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P885012
 CATALOG NUMBER: NAV-SB6A-835-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

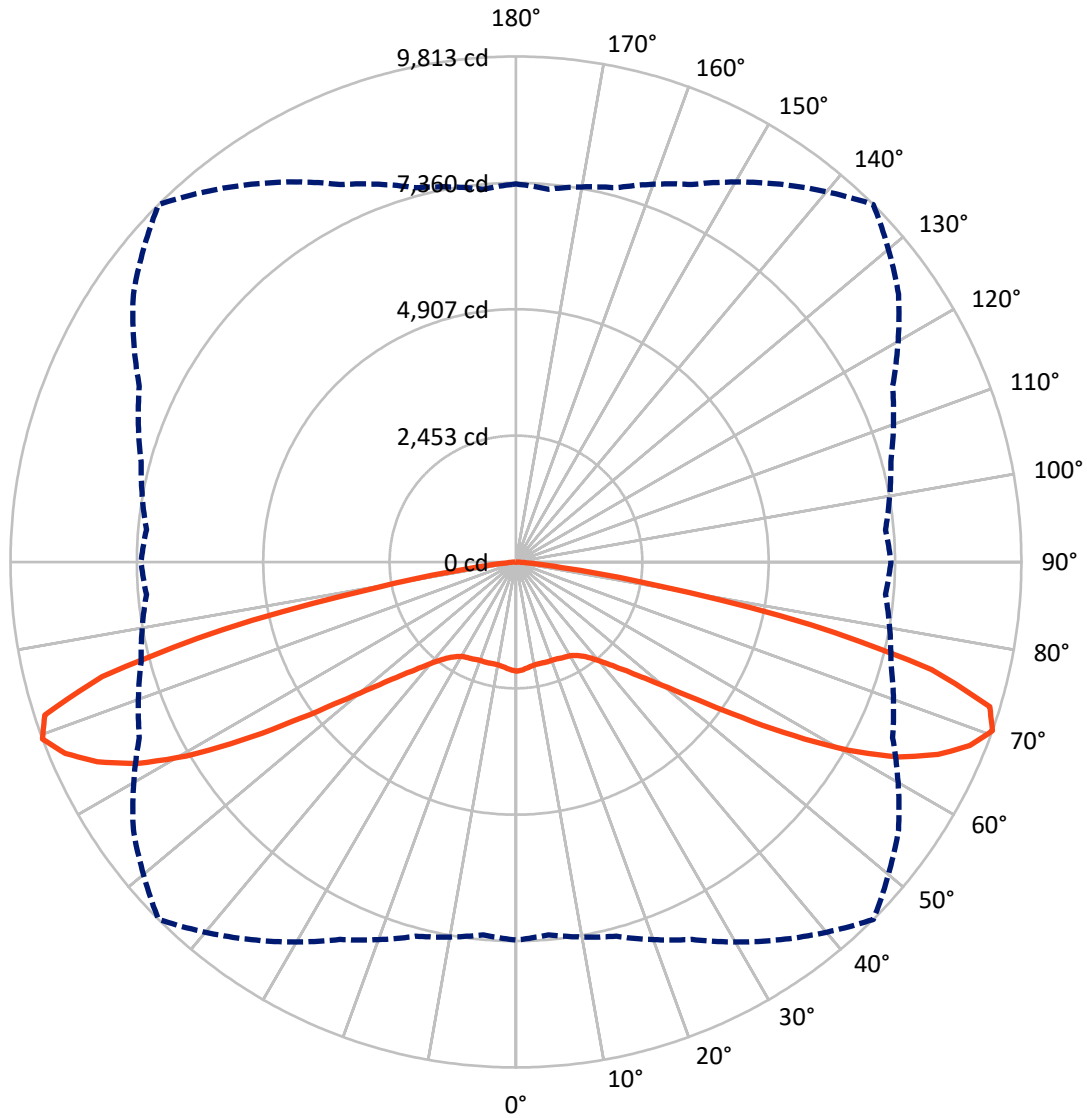
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - N/A

REPORT NUMBER: P885012
CATALOG NUMBER: NAV-SB6A-835-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P885012
 CATALOG NUMBER: NAV-SB6A-835-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11618.5	0.0	11618.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11618.5	0.0	11618.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	23237.0	0.0	23237.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.2	0.8
10°-20°	579.0	2.5
20°-30°	963.5	4.1
30°-40°	1457.1	6.3
40°-50°	2421.3	10.4
50°-60°	4569.0	19.7
60°-70°	7714.9	33.2
70°-80°	5069.5	21.8
80°-90°	265.6	1.1
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°	23237.0	100.0
0°-180°	23237.0	100.0



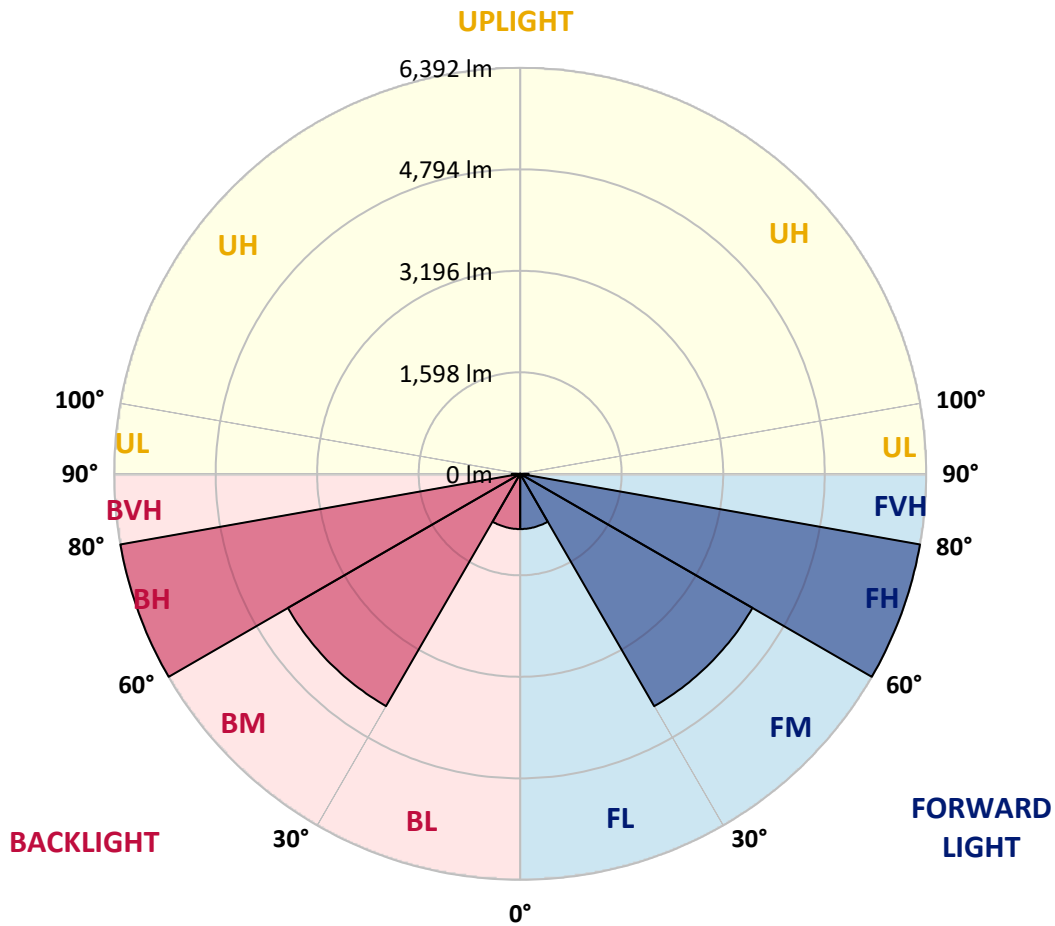
REPORT NUMBER: P885012
 CATALOG NUMBER: NAV-SB6A-835-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	869.8	3.7			
FM (30°-60°)	4223.7	18.2			
FH (60°-80°)	6392.2	27.5			G3/7500
FVH (80°-90°)	132.8	0.6			G2/225
BL (0°-30°)	869.8	3.7	B2/1000		
BM (30°-60°)	4223.7	18.2	B3/5000		
BH (60°-80°)	6392.2	27.5	B5		G3/7500
BVH (80°-90°)	132.8	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



REPORT NUMBER: P885012
 CATALOG NUMBER: NAV-SB6A-835-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2119.7	2119.7	2119.7	2119.7	2119.7	2119.7	2119.7	2119.7	2119.7	2119.7	2119.7
2.5°	2106.4	2112.4	2110.0	2105.2	2105.2	2101.6	2105.2	2107.6	2111.2	2113.6	2112.4
5°	2078.6	2083.4	2082.2	2078.6	2079.8	2076.2	2078.6	2082.2	2084.7	2085.9	2085.9
7.5°	2054.5	2059.3	2056.9	2050.8	2050.8	2047.2	2048.4	2052.0	2055.7	2056.9	2056.9
10°	2048.4	2053.3	2046.0	2036.3	2032.7	2027.9	2029.1	2032.7	2040.0	2043.6	2043.6
12.5°	2050.8	2054.5	2047.2	2032.7	2029.1	2024.3	2024.3	2027.9	2037.6	2042.4	2043.6
15°	2058.1	2061.7	2050.8	2035.1	2031.5	2027.9	2026.7	2031.5	2042.4	2050.8	2052.0
17.5°	2071.4	2075.0	2058.1	2036.3	2031.5	2032.7	2031.5	2035.1	2052.0	2067.7	2067.7
20°	2083.4	2085.9	2062.9	2036.3	2031.5	2032.7	2031.5	2038.8	2060.5	2082.2	2083.4
22.5°	2087.1	2089.5	2067.7	2044.8	2041.2	2042.4	2041.2	2048.4	2069.0	2090.7	2090.7
25°	2088.3	2091.9	2075.0	2056.9	2062.9	2065.3	2062.9	2064.1	2079.8	2099.1	2097.9
27.5°	2106.4	2111.2	2095.5	2079.8	2083.4	2082.2	2085.9	2089.5	2101.6	2120.9	2116.1
30°	2143.8	2147.5	2134.2	2118.5	2116.1	2107.6	2118.5	2130.6	2143.8	2160.7	2157.1
32.5°	2205.4	2212.7	2195.8	2178.9	2168.0	2163.2	2171.6	2192.2	2210.3	2228.4	2221.1
35°	2308.1	2312.9	2297.2	2265.8	2246.5	2246.5	2253.7	2280.3	2309.3	2332.3	2323.8
37.5°	2453.0	2459.1	2431.3	2393.9	2364.9	2364.9	2374.5	2402.3	2445.8	2478.4	2466.3
40°	2629.4	2637.8	2602.8	2564.2	2536.4	2531.5	2543.6	2575.0	2616.1	2657.2	2643.9
42.5°	2841.9	2851.6	2805.7	2771.9	2750.2	2750.2	2756.2	2785.2	2822.6	2873.3	2869.7
45°	3113.7	3130.6	3067.8	3034.0	3013.5	3018.3	3021.9	3047.3	3081.1	3139.1	3136.6
47.5°	3437.4	3454.3	3387.9	3352.8	3349.2	3372.2	3357.7	3375.8	3393.9	3460.3	3441.0
50°	3804.6	3833.5	3787.6	3785.2	3792.5	3834.8	3800.9	3810.6	3790.1	3832.3	3807.0
52.5°	4253.9	4296.1	4287.7	4302.2	4383.1	4470.1	4392.8	4358.9	4281.6	4294.9	4250.2
55°	4798.6	4862.6	4874.7	4961.6	5145.2	5322.8	5158.5	5022.0	4857.8	4827.6	4780.5
57.5°	5418.2	5468.9	5526.9	5704.4	6047.4	6362.7	6047.4	5745.5	5487.0	5425.4	5381.9
60°	6084.9	6147.7	6203.2	6465.3	6975.0	7418.3	6965.4	6485.9	6144.1	6060.7	5988.3
62.5°	6801.1	6882.0	6920.7	7211.8	7806.0	8335.0	7814.4	7233.5	6854.2	6764.9	6692.4
65°	7488.3	7554.8	7598.2	7908.6	8476.3	9006.5	8515.0	7942.5	7552.3	7435.2	7377.2
67.5°	7808.4	7844.6	7950.9	8302.4	8901.5	9506.6	9002.9	8339.8	7903.8	7698.5	7700.9
70°	7339.8	7266.1	7522.2	8085.0	8952.2	9813.3	9068.1	8068.1	7534.2	7200.9	7280.6
72.5°	5671.8	5545.0	5989.5	6952.1	8372.4	9617.7	8430.4	7006.4	6266.0	5589.7	5757.6
75°	3085.9	2942.2	3555.8	4773.2	6676.7	8336.2	6830.1	4909.7	3959.2	3063.0	3262.3
77.5°	870.8	816.5	1311.7	2309.3	4015.9	5853.0	4170.5	2360.0	1555.6	922.8	1025.4
80°	266.9	258.5	350.3	695.7	1705.4	2803.3	1639.0	704.1	445.7	281.4	297.1
82.5°	158.2	144.9	173.9	253.6	434.8	880.5	422.7	264.5	212.6	142.5	154.6
85°	90.6	84.5	102.7	123.2	146.1	187.2	122.0	125.6	113.5	76.1	79.7
87.5°	37.4	33.8	39.9	38.6	33.8	43.5	32.6	38.6	45.9	30.2	27.8
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)