

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: P884672

Luminaire Tested: **NAV-SB5C-835-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884672
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-SB5C-835-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32433 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

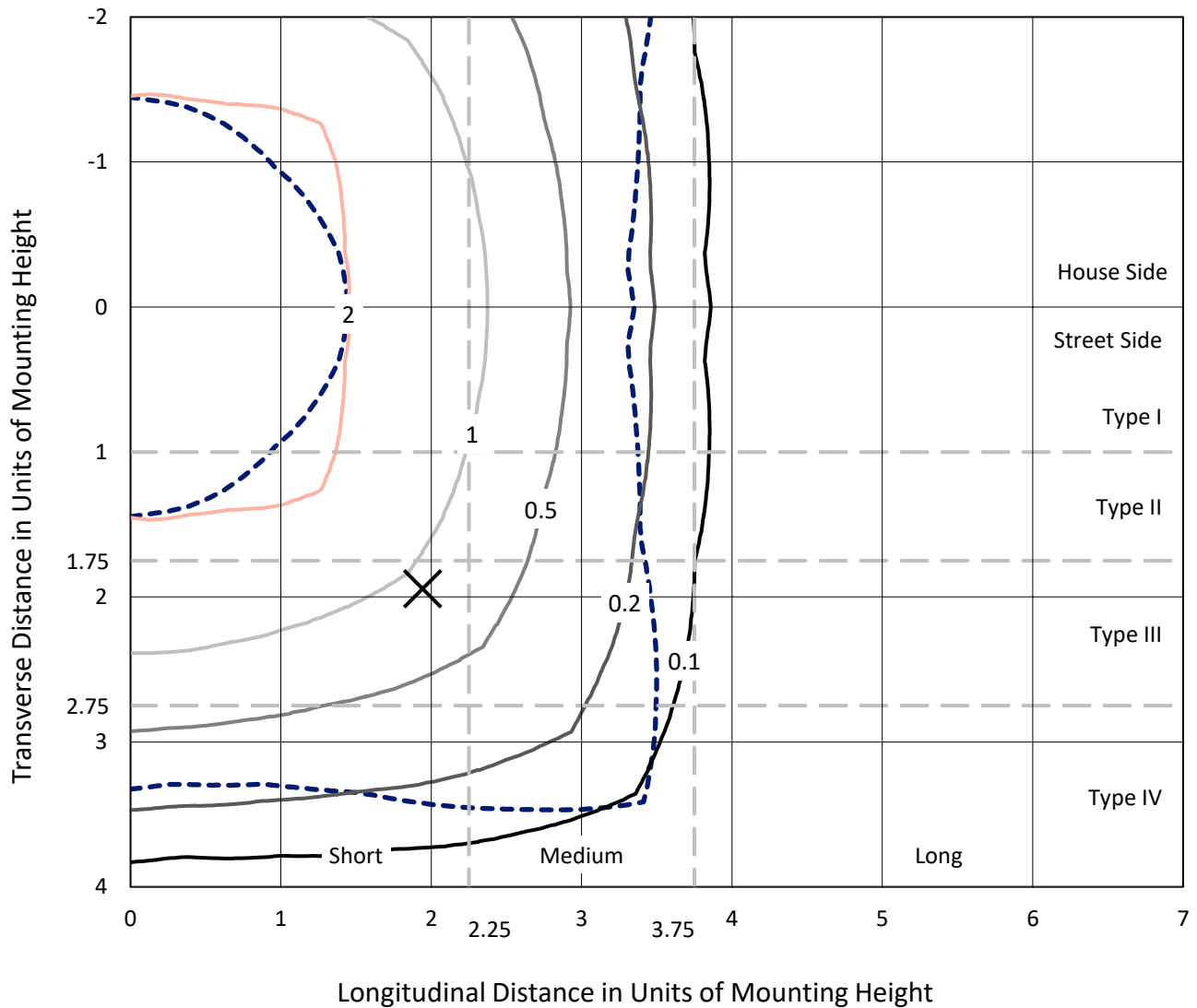
Input Watts (W): 249.5
Input Voltage (V): 120.0
Input Current (Ain): 2.116
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 7.885
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P884672
 CATALOG NUMBER: NAV-SB5C-835-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

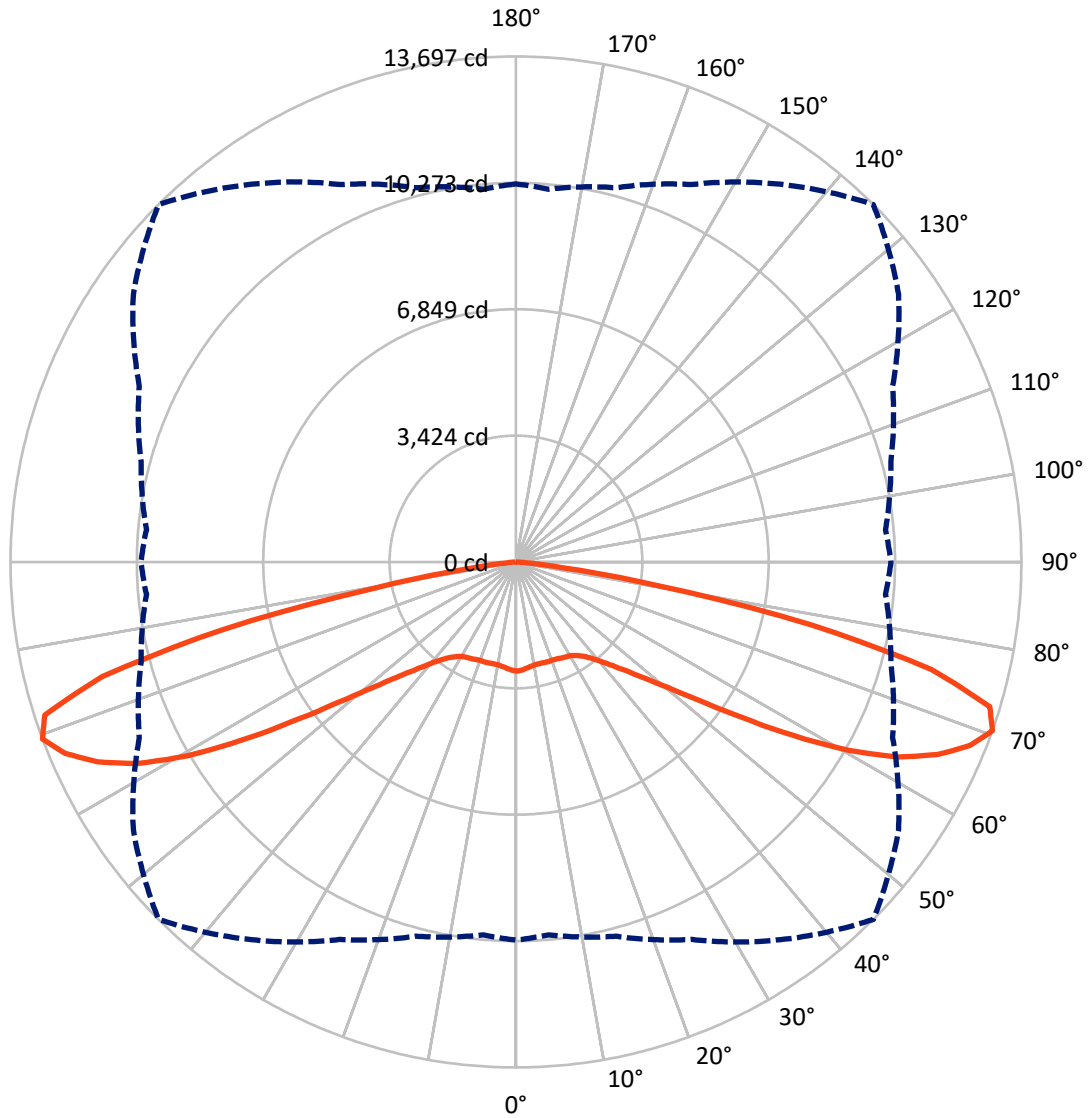
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - N/A

REPORT NUMBER: P884672
CATALOG NUMBER: NAV-SB5C-835-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P884672

CATALOG NUMBER: NAV-SB5C-835-U-5WQ

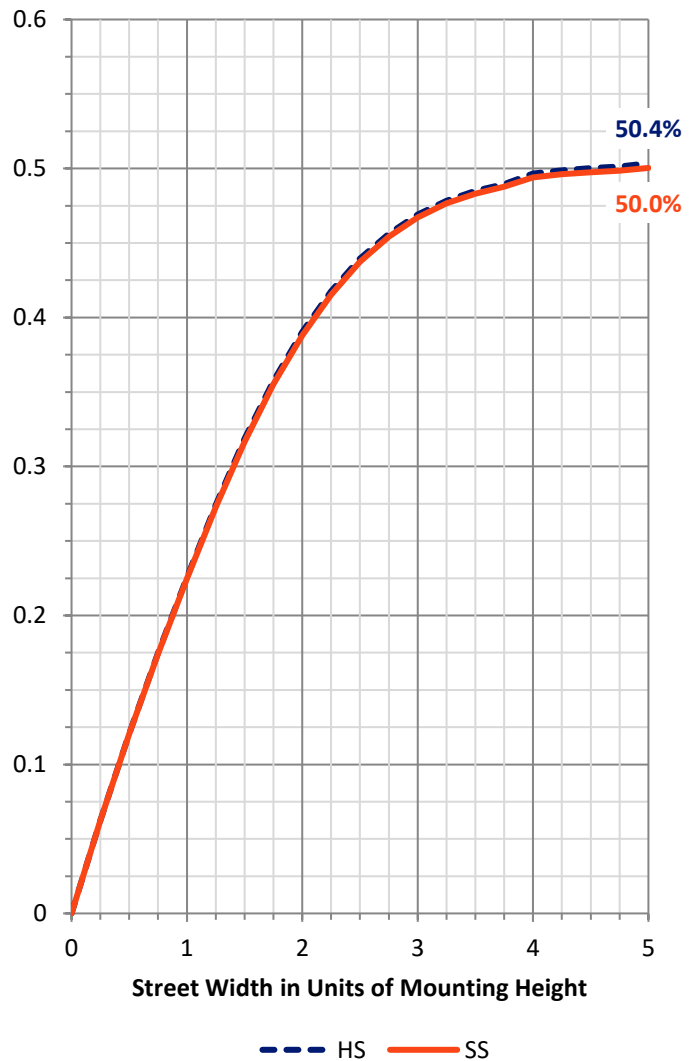
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16216.5	0.0	16216.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16216.5	0.0	16216.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	32433.0	0.0	32433.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.2	0.8
10°-20°	808.1	2.5
20°-30°	1344.8	4.1
30°-40°	2033.7	6.3
40°-50°	3379.6	10.4
50°-60°	6377.1	19.7
60°-70°	10768.0	33.2
70°-80°	7075.7	21.8
80°-90°	370.7	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°	32433.0	100.0
0°-180°	32433.0	100.0

Coefficient of Utilization



REPORT NUMBER: P884672

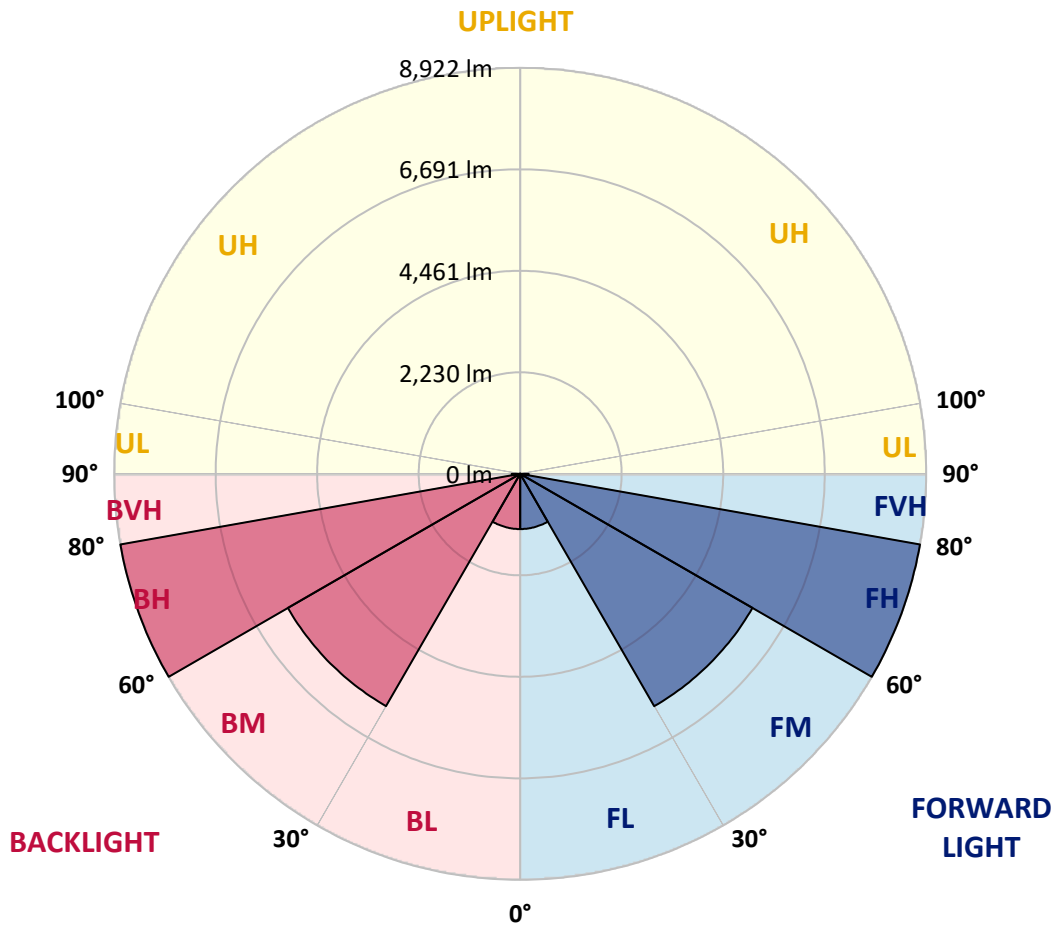
CATALOG NUMBER: NAV-SB5C-835-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1214.1	3.7			
FM (30°-60°)	5895.2	18.2			
FH (60°-80°)	8921.9	27.5			G4/12000
FVH (80°-90°)	185.3	0.6			G2/225
BL (0°-30°)	1214.1	3.7	B3/2500		
BM (30°-60°)	5895.2	18.2	B4/8500		
BH (60°-80°)	8921.9	27.5	B5		G4/12000
BVH (80°-90°)	185.3	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-G4

Type V Short



REPORT NUMBER: P884672

CATALOG NUMBER: NAV-SB5C-835-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5
2.5°	2940.0	2948.4	2945.1	2938.3	2938.3	2933.3	2938.3	2941.7	2946.7	2950.1	2948.4
5°	2901.2	2908.0	2906.3	2901.2	2902.9	2897.9	2901.2	2906.3	2909.7	2911.3	2911.3
7.5°	2867.5	2874.3	2870.9	2862.5	2862.5	2857.4	2859.1	2864.1	2869.2	2870.9	2870.9
10°	2859.1	2865.8	2855.7	2842.2	2837.2	2830.4	2832.1	2837.2	2847.3	2852.3	2852.3
12.5°	2862.5	2867.5	2857.4	2837.2	2832.1	2825.4	2825.4	2830.4	2843.9	2850.7	2852.3
15°	2872.6	2877.6	2862.5	2840.5	2835.5	2830.4	2828.7	2835.5	2850.7	2862.5	2864.1
17.5°	2891.1	2896.2	2872.6	2842.2	2835.5	2837.2	2835.5	2840.5	2864.1	2886.1	2886.1
20°	2908.0	2911.3	2879.3	2842.2	2835.5	2837.2	2835.5	2845.6	2875.9	2906.3	2908.0
22.5°	2913.0	2916.4	2886.1	2854.0	2849.0	2850.7	2849.0	2859.1	2887.7	2918.1	2918.1
25°	2914.7	2919.8	2896.2	2870.9	2879.3	2882.7	2879.3	2881.0	2902.9	2929.9	2928.2
27.5°	2940.0	2946.7	2924.8	2902.9	2908.0	2906.3	2911.3	2916.4	2933.3	2960.2	2953.5
30°	2992.3	2997.3	2978.8	2956.9	2953.5	2941.7	2956.9	2973.7	2992.3	3015.9	3010.8
32.5°	3078.2	3088.3	3064.7	3041.1	3026.0	3019.2	3031.0	3059.7	3085.0	3110.3	3100.1
35°	3221.5	3228.3	3206.4	3162.5	3135.5	3135.5	3145.7	3182.8	3223.2	3255.2	3243.4
37.5°	3423.8	3432.2	3393.5	3341.2	3300.8	3300.8	3314.2	3353.0	3413.7	3459.2	3442.4
40°	3669.9	3681.7	3632.9	3578.9	3540.1	3533.4	3550.3	3594.1	3651.4	3708.7	3690.2
42.5°	3966.6	3980.1	3916.1	3868.9	3838.5	3838.5	3846.9	3887.4	3939.7	4010.5	4005.4
45°	4345.9	4369.5	4281.9	4234.7	4206.0	4212.8	4217.8	4253.2	4300.4	4381.3	4378.0
47.5°	4797.7	4821.3	4728.6	4679.7	4674.7	4706.7	4686.5	4711.8	4737.0	4829.8	4802.8
50°	5310.2	5350.7	5286.6	5283.2	5293.3	5352.3	5305.1	5318.6	5290.0	5349.0	5313.6
52.5°	5937.3	5996.3	5984.5	6004.7	6117.7	6239.1	6131.2	6084.0	5976.1	5994.6	5932.3
55°	6697.6	6786.9	6803.8	6925.2	7181.4	7429.2	7200.0	7009.5	6780.2	6738.1	6672.3
57.5°	7562.4	7633.2	7714.1	7961.9	8440.7	8880.7	8440.7	8019.3	7658.5	7572.5	7511.8
60°	8493.0	8580.6	8658.2	9024.0	9735.4	10354.1	9721.9	9052.6	8575.6	8459.2	8358.1
62.5°	9492.6	9605.6	9659.5	10065.8	10895.2	11633.6	10907.0	10096.1	9566.8	9442.0	9340.9
65°	10451.8	10544.5	10605.2	11038.5	11830.8	12570.9	11884.7	11085.7	10541.2	10377.7	10296.7
67.5°	10898.6	10949.1	11097.5	11588.0	12424.2	13268.8	12565.8	11640.3	11031.7	10745.2	10748.5
70°	10244.5	10141.6	10499.0	11284.6	12495.0	13697.0	12656.8	11261.0	10515.9	10050.6	10161.9
72.5°	7916.4	7739.4	8359.8	9703.3	11685.8	13423.9	11766.7	9779.2	8745.8	7801.8	8036.1
75°	4307.2	4106.6	4962.9	6662.2	9319.0	11635.2	9533.1	6852.7	5526.0	4275.1	4553.3
77.5°	1215.4	1139.6	1830.8	3223.2	5605.2	8169.3	5821.0	3294.0	2171.3	1287.9	1431.2
80°	372.6	360.8	488.9	971.0	2380.3	3912.7	2287.6	982.8	622.1	392.8	414.7
82.5°	220.8	202.3	242.8	354.0	606.9	1228.9	590.0	369.2	296.7	198.9	215.8
85°	126.4	118.0	143.3	171.9	204.0	261.3	170.3	175.3	158.5	106.2	111.3
87.5°	52.3	47.2	55.6	53.9	47.2	60.7	45.5	53.9	64.1	42.1	38.8
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)