

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: P883992

Luminaire Tested: **NAV-SB4C-835-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883992
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-SB4C-835-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 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: 25903 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

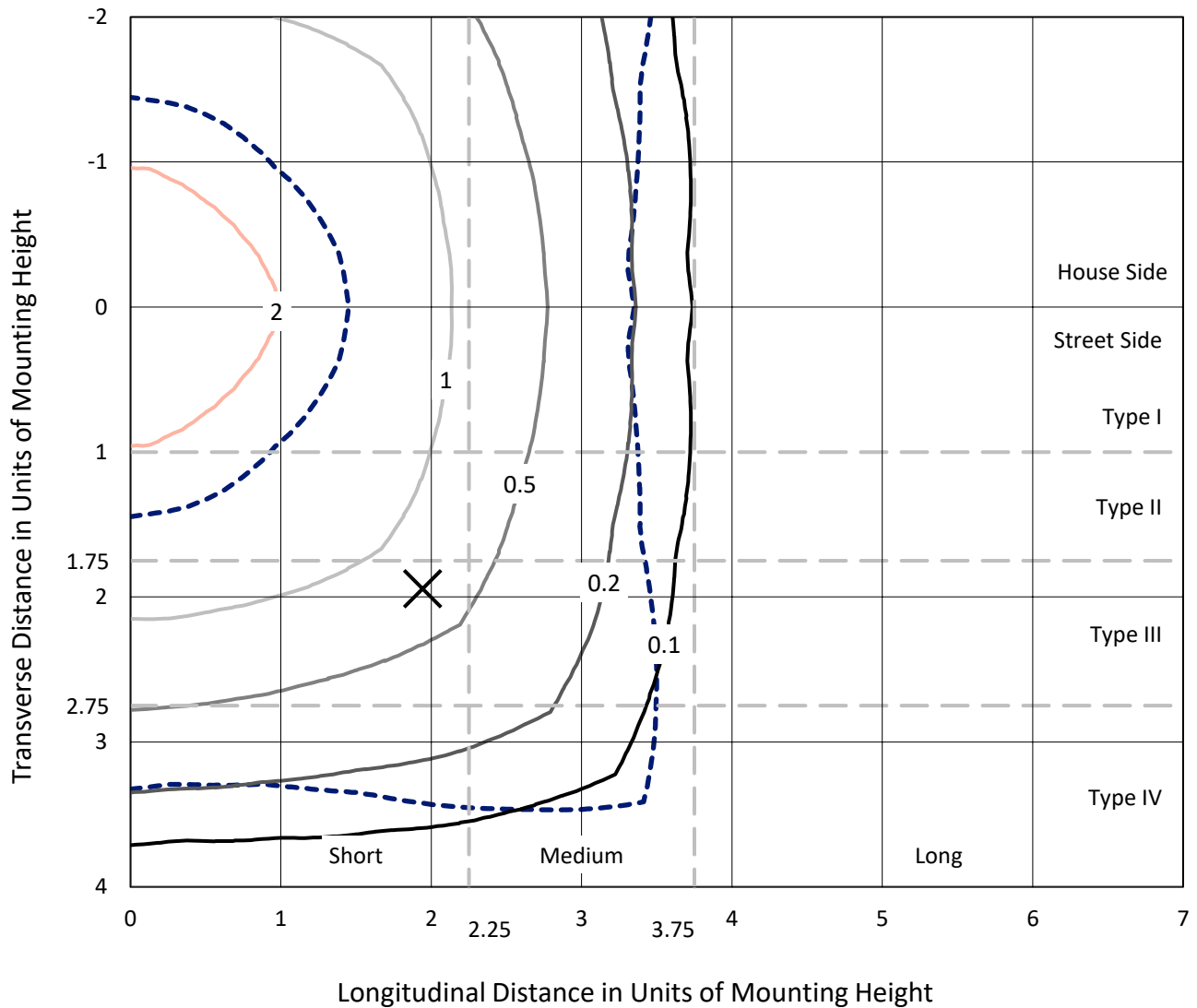
Input Watts (W): 200.7
Input Voltage (V): 120.0
Input Current (Ain): 1.714
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P883992
 CATALOG NUMBER: NAV-SB4C-835-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

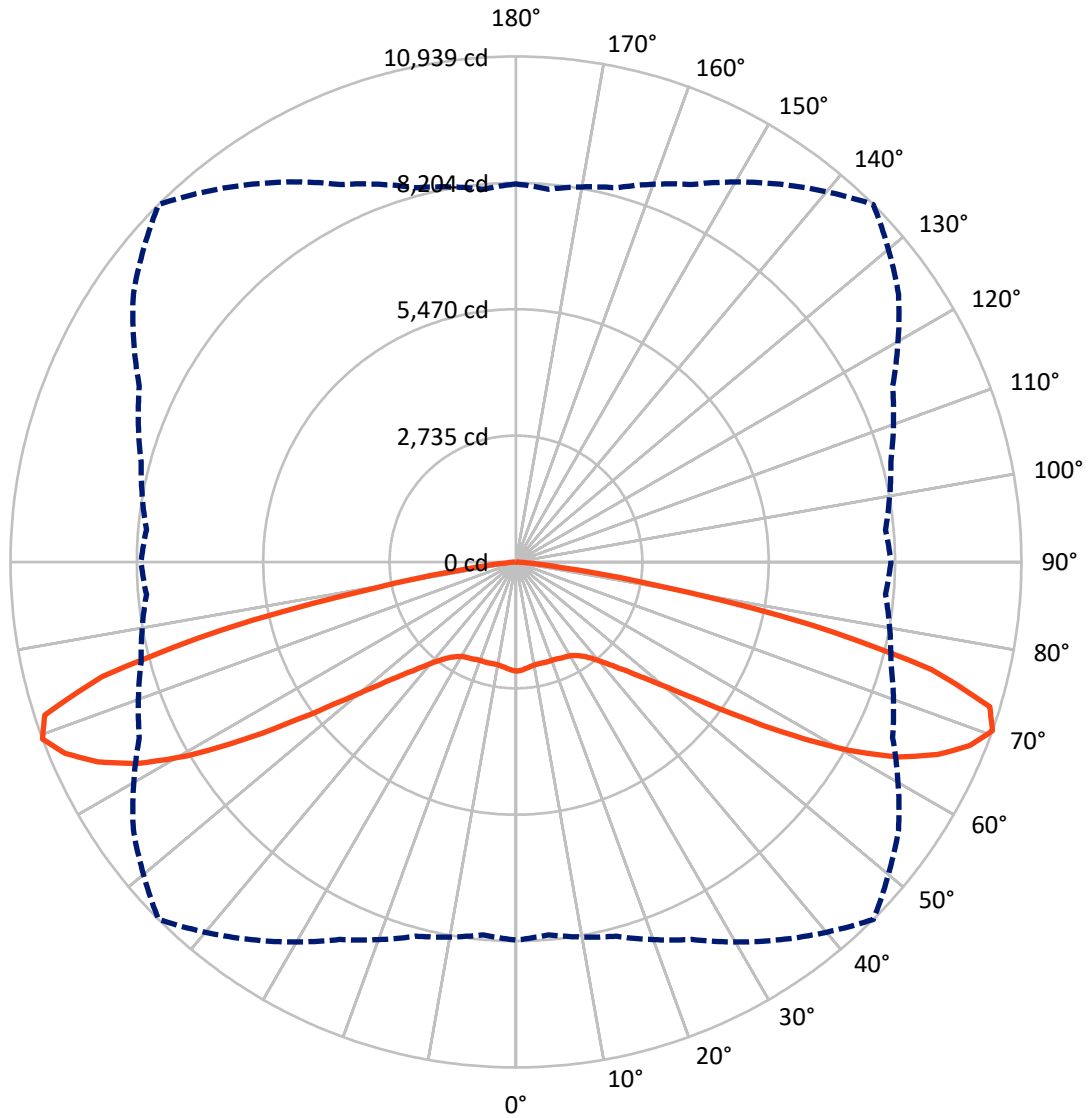
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - N/A

REPORT NUMBER: P883992
CATALOG NUMBER: NAV-SB4C-835-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P883992
 CATALOG NUMBER: NAV-SB4C-835-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12951.5	0.0	12951.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12951.5	0.0	12951.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	25903.0	0.0	25903.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.8	0.8
10°-20°	645.4	2.5
20°-30°	1074.0	4.1
30°-40°	1624.3	6.3
40°-50°	2699.1	10.4
50°-60°	5093.2	19.7
60°-70°	8600.0	33.2
70°-80°	5651.1	21.8
80°-90°	296.1	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°	25903.0	100.0
0°-180°	25903.0	100.0



REPORT NUMBER: P883992

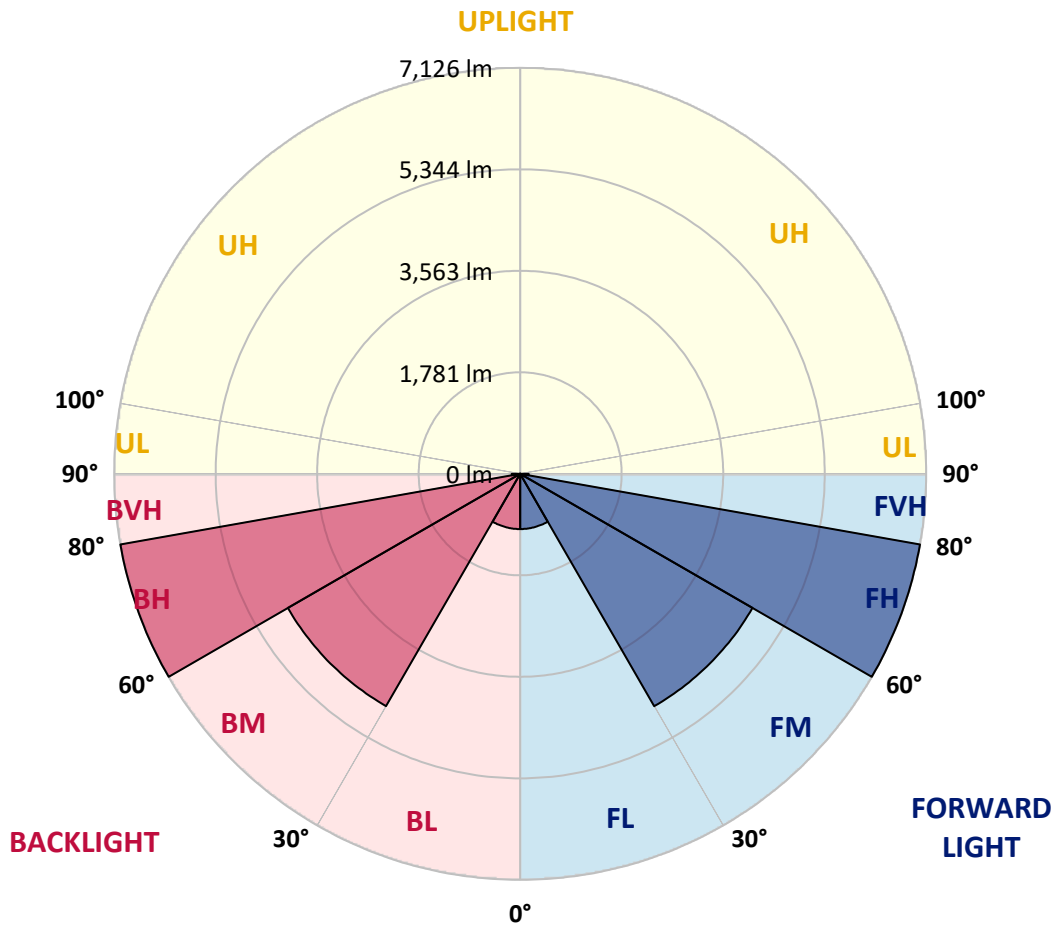
CATALOG NUMBER: NAV-SB4C-835-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	969.6	3.7			
FM (30°-60°)	4708.3	18.2			
FH (60°-80°)	7125.6	27.5			G3/7500
FVH (80°-90°)	148.0	0.6			G2/225
BL (0°-30°)	969.6	3.7	B2/1000		
BM (30°-60°)	4708.3	18.2	B3/5000		
BH (60°-80°)	7125.6	27.5	B5		G3/7500
BVH (80°-90°)	148.0	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: P883992
 CATALOG NUMBER: NAV-SB4C-835-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2362.9	2362.9	2362.9	2362.9	2362.9	2362.9	2362.9	2362.9	2362.9	2362.9	2362.9
2.5°	2348.1	2354.8	2352.1	2346.7	2346.7	2342.7	2346.7	2349.4	2353.5	2356.1	2354.8
5°	2317.1	2322.5	2321.1	2317.1	2318.4	2314.4	2317.1	2321.1	2323.8	2325.2	2325.2
7.5°	2290.2	2295.6	2292.9	2286.1	2286.1	2282.1	2283.4	2287.5	2291.5	2292.9	2292.9
10°	2283.4	2288.8	2280.7	2270.0	2265.9	2260.6	2261.9	2265.9	2274.0	2278.1	2278.1
12.5°	2286.1	2290.2	2282.1	2265.9	2261.9	2256.5	2256.5	2260.6	2271.3	2276.7	2278.1
15°	2294.2	2298.2	2286.1	2268.6	2264.6	2260.6	2259.2	2264.6	2276.7	2286.1	2287.5
17.5°	2309.0	2313.1	2294.2	2270.0	2264.6	2265.9	2264.6	2268.6	2287.5	2305.0	2305.0
20°	2322.5	2325.2	2299.6	2270.0	2264.6	2265.9	2264.6	2272.7	2296.9	2321.1	2322.5
22.5°	2326.5	2329.2	2305.0	2279.4	2275.4	2276.7	2275.4	2283.4	2306.3	2330.6	2330.6
25°	2327.9	2331.9	2313.1	2292.9	2299.6	2302.3	2299.6	2300.9	2318.4	2340.0	2338.6
27.5°	2348.1	2353.5	2335.9	2318.4	2322.5	2321.1	2325.2	2329.2	2342.7	2364.2	2358.8
30°	2389.8	2393.8	2379.0	2361.5	2358.8	2349.4	2361.5	2375.0	2389.8	2408.7	2404.6
32.5°	2458.5	2466.5	2447.7	2428.8	2416.7	2411.3	2420.8	2443.7	2463.9	2484.0	2476.0
35°	2572.9	2578.3	2560.8	2525.8	2504.2	2504.2	2512.3	2541.9	2574.3	2599.8	2590.4
37.5°	2734.5	2741.2	2710.2	2668.5	2636.2	2636.2	2647.0	2677.9	2726.4	2762.7	2749.3
40°	2931.0	2940.5	2901.4	2858.3	2827.4	2822.0	2835.5	2870.5	2916.2	2962.0	2947.2
42.5°	3168.0	3178.8	3127.6	3089.9	3065.7	3065.7	3072.4	3104.7	3146.5	3203.0	3199.0
45°	3470.9	3489.8	3419.8	3382.1	3359.2	3364.6	3368.6	3396.9	3434.6	3499.2	3496.5
47.5°	3831.8	3850.6	3776.6	3737.5	3733.5	3759.1	3742.9	3763.1	3783.3	3857.3	3835.8
50°	4241.1	4273.4	4222.2	4219.5	4227.6	4274.7	4237.0	4247.8	4224.9	4272.0	4243.8
52.5°	4741.9	4789.0	4779.6	4795.8	4886.0	4982.9	4896.7	4859.0	4772.9	4787.7	4737.9
55°	5349.1	5420.5	5433.9	5530.9	5735.5	5933.4	5750.3	5598.2	5415.1	5381.4	5328.9
57.5°	6039.8	6096.4	6161.0	6358.9	6741.3	7092.7	6741.3	6404.7	6116.5	6047.9	5999.4
60°	6783.0	6853.0	6914.9	7207.1	7775.3	8269.4	7764.5	7230.0	6849.0	6756.1	6675.3
62.5°	7581.4	7671.6	7714.7	8039.2	8701.6	9291.3	8711.0	8063.4	7640.6	7541.0	7460.2
65°	8347.5	8421.5	8470.0	8816.0	9448.8	10039.9	9491.9	8853.7	8418.8	8288.2	8223.6
67.5°	8704.3	8744.7	8863.1	9254.9	9922.7	10597.3	10035.8	9296.7	8810.6	8581.7	8584.4
70°	8181.9	8099.7	8385.2	9012.6	9979.3	10939.2	10108.5	8993.7	8398.6	8027.0	8115.9
72.5°	6322.5	6181.2	6676.6	7749.7	9333.0	10721.1	9397.6	7810.3	6985.0	6231.0	6418.1
75°	3440.0	3279.8	3963.7	5320.8	7442.7	9292.6	7613.7	5473.0	4413.4	3414.4	3636.5
77.5°	970.7	910.1	1462.2	2574.3	4476.7	6524.5	4649.0	2630.8	1734.1	1028.6	1143.1
80°	297.5	288.1	390.4	775.5	1901.1	3124.9	1827.0	784.9	496.8	313.7	331.2
82.5°	176.4	161.6	193.9	282.7	484.7	981.5	471.2	294.9	237.0	158.9	172.3
85°	101.0	94.2	114.4	137.3	162.9	208.7	136.0	140.0	126.6	84.8	88.9
87.5°	41.7	37.7	44.4	43.1	37.7	48.5	36.4	43.1	51.2	33.7	31.0
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)