

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: P885285

Luminaire Tested: **NAV-SB6C-730-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885285
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-730-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44266 lumens
Efficiency: N/A
Efficacy: 147.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

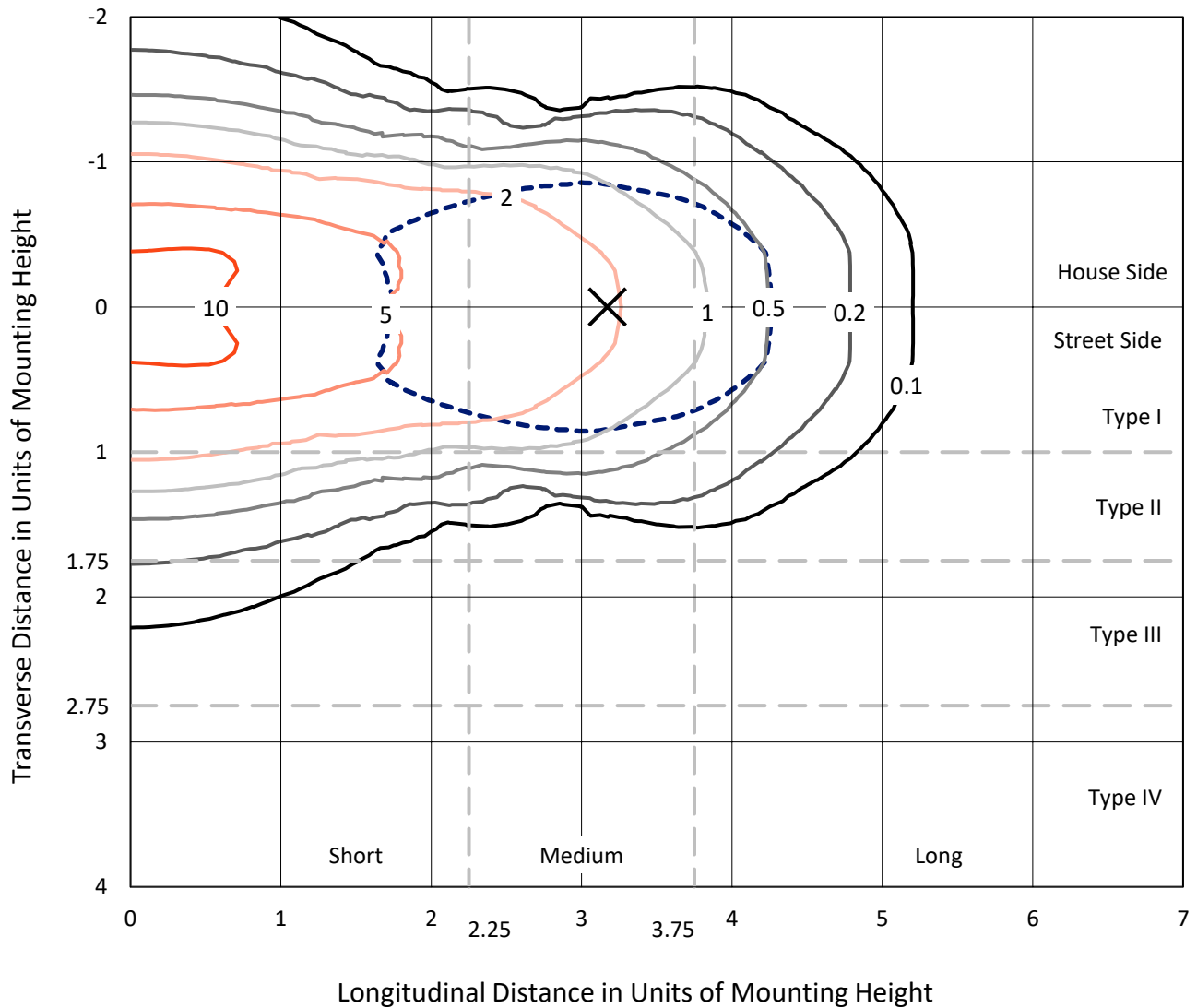
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P885285
 CATALOG NUMBER: NAV-SB6C-730-U-T1

Iso-Footcandle Lines of Horizontal Illumination

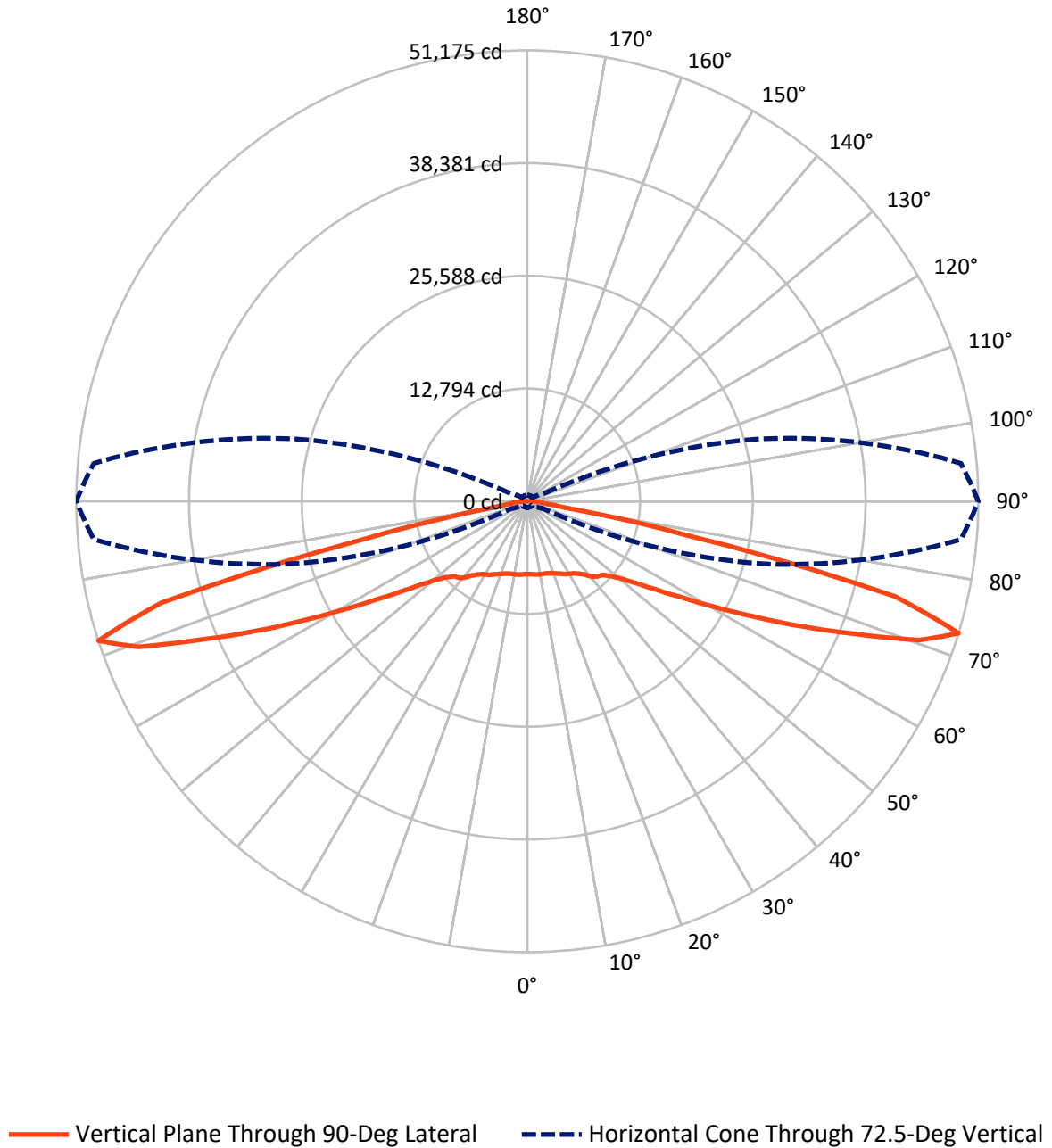
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type I - Short - N/A

REPORT NUMBER: P885285
CATALOG NUMBER: NAV-SB6C-730-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P885285
 CATALOG NUMBER: NAV-SB6C-730-U-T1

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22133.0	0.0	22133.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22133.0	0.0	22133.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	44266.0	0.0	44266.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	802.0	1.8
10°-20°	2452.3	5.5
20°-30°	4089.0	9.2
30°-40°	5623.6	12.7
40°-50°	6867.9	15.5
50°-60°	7943.5	17.9
60°-70°	9471.3	21.4
70°-80°	6610.4	14.9
80°-90°	406.0	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°	44266.0	100.0
0°-180°	44266.0	100.0

Coefficient of Utilization



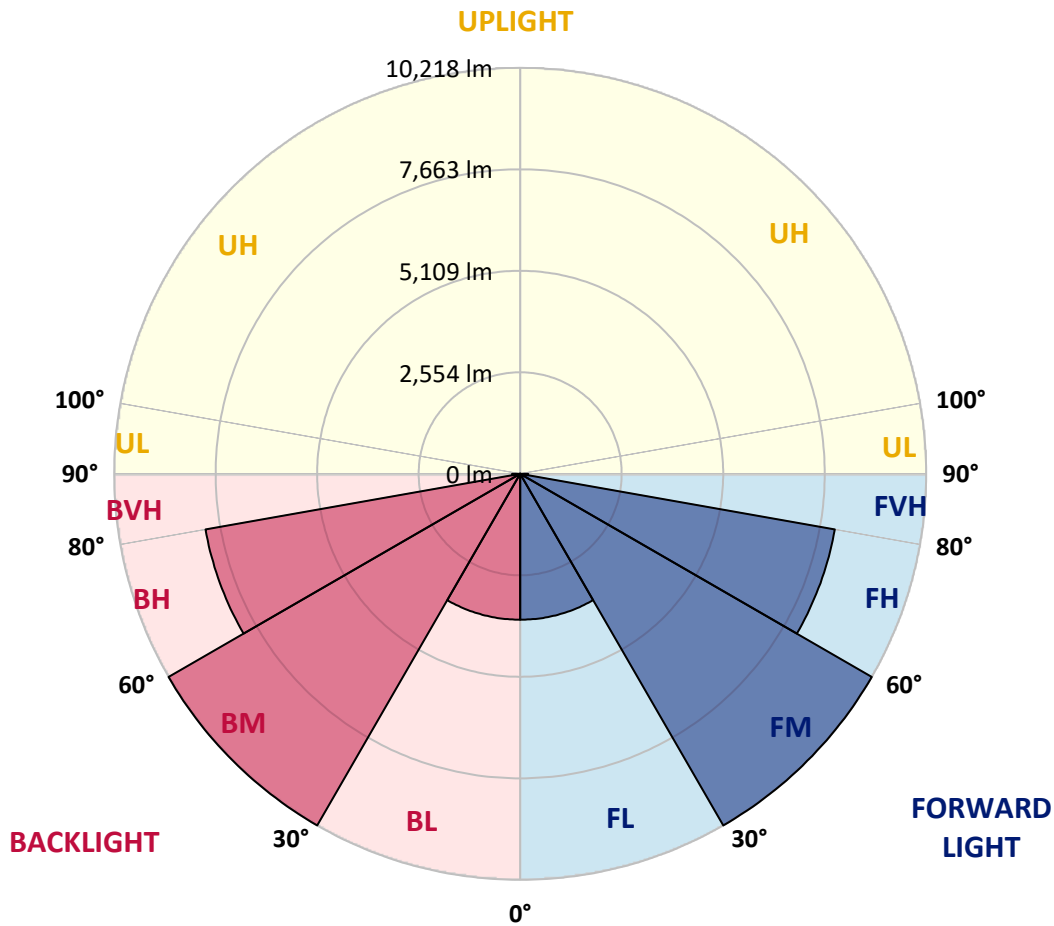
REPORT NUMBER: P885285
 CATALOG NUMBER: NAV-SB6C-730-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3671.6	8.3			
FM (30°-60°)	10217.5	23.1			
FH (60°-80°)	8040.8	18.2			G4/12000
FVH (80°-90°)	203.0	0.5			G2/225
BL (0°-30°)	3671.6	8.3	B4/5000		
BM (30°-60°)	10217.5	23.1	B5		
BH (60°-80°)	8040.8	18.2	B5		G5
BVH (80°-90°)	203.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short



REPORT NUMBER: P885285
 CATALOG NUMBER: NAV-SB6C-730-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8271.6	8271.6	8271.6	8271.6	8271.6	8271.6	8271.6	8271.6	8271.6	8271.6	8271.6
2.5°	8278.6	8288.0	8288.0	8281.0	8297.4	8283.3	8283.3	8276.3	8283.3	8276.3	8276.3
5°	8321.0	8332.7	8337.4	8335.1	8356.3	8344.5	8344.5	8335.1	8337.4	8330.4	8330.4
7.5°	8401.0	8417.4	8426.8	8438.6	8469.2	8455.1	8445.7	8417.4	8405.7	8386.8	8386.8
10°	8426.8	8445.7	8476.2	8537.4	8608.0	8610.3	8582.1	8511.5	8457.4	8415.1	8408.0
12.5°	8346.9	8372.7	8436.2	8560.9	8718.6	8782.1	8737.4	8619.7	8513.9	8438.6	8426.8
15°	8245.7	8273.9	8370.4	8558.6	8791.5	8939.7	8935.0	8779.7	8610.3	8492.7	8473.9
17.5°	8088.1	8116.3	8255.1	8518.6	8847.9	9092.6	9158.5	8998.5	8760.9	8603.3	8577.4
20°	7803.4	7829.3	8022.2	8391.5	8866.8	9254.9	9426.7	9285.5	8989.1	8775.0	8735.0
22.5°	7434.1	7474.1	7699.9	8172.8	8822.1	9424.3	9732.5	9636.0	9254.9	8958.5	8904.4
25°	7038.8	7081.2	7344.7	7904.6	8706.8	9546.7	10094.8	10033.6	9556.1	9186.7	9111.4
27.5°	6697.7	6742.4	7029.4	7638.7	8528.0	9593.7	10452.4	10483.0	9920.7	9438.4	9358.4
30°	6429.5	6471.9	6777.7	7424.7	8297.4	9546.7	10765.3	10977.0	10292.4	9657.2	9541.9
32.5°	6135.5	6189.6	6511.9	7163.5	8024.6	9433.7	11038.2	11511.0	10722.9	9892.5	9746.6
35°	5763.7	5813.2	6151.9	6805.9	7667.0	9252.6	11266.4	12103.9	11339.3	10250.1	10087.7
37.5°	5312.1	5359.1	5695.5	6358.9	7311.7	8998.5	11440.5	12772.0	12073.3	10765.3	10548.8
40°	4858.0	4902.7	5218.0	5860.2	6885.9	8673.9	11501.6	13426.0	12915.5	11473.4	11242.8
42.5°	4441.6	4481.6	4771.0	5368.5	6408.3	8259.8	11421.6	13995.3	13670.7	11967.4	11671.0
45°	4058.2	4093.4	4349.9	4907.4	5912.0	7756.4	11181.7	14607.0	14569.3	12320.3	11920.4
47.5°	3620.6	3655.9	3921.7	4460.4	5415.6	7165.9	10774.7	15209.2	15818.6	13120.2	12659.1
50°	3086.5	3117.1	3390.0	3945.2	4900.4	6537.7	10210.1	15682.1	17394.8	14331.7	13753.0
52.5°	2453.7	2486.6	2752.5	3307.7	4288.7	5862.6	9466.7	15990.3	19215.6	16100.9	15388.0
55°	1825.6	1849.1	2079.7	2578.4	3531.2	5093.3	8535.1	16077.3	21281.2	18519.3	17627.7
57.5°	1324.5	1338.6	1486.8	1858.5	2677.2	4131.1	7403.5	15851.5	23739.6	21619.9	20497.8
60°	1072.8	1077.5	1122.2	1286.8	1860.9	3044.2	6036.6	15075.1	26407.4	25616.9	24203.0
62.5°	974.0	974.0	985.7	1030.4	1258.6	2009.1	4382.8	13466.0	29268.1	30667.9	28774.1
65°	905.7	905.7	910.4	931.6	992.8	1279.8	2766.6	10845.3	31679.5	36584.5	34189.6
67.5°	844.6	846.9	844.6	851.6	886.9	945.7	1604.4	7490.5	32978.1	42715.3	40129.8
70°	781.0	785.8	774.0	774.0	802.2	804.6	1004.5	4107.6	31900.6	47853.2	47173.4
72.5°	705.8	712.8	694.0	689.3	710.5	701.1	755.2	1971.4	27388.4	49387.1	51175.0
75°	639.9	649.3	607.0	595.2	595.2	588.1	614.0	1011.6	17775.9	40287.4	43091.7
77.5°	581.1	599.9	531.7	494.0	484.6	463.5	501.1	618.7	7775.2	18914.5	18521.6
80°	479.9	505.8	437.6	392.9	376.4	352.9	395.2	432.9	2312.6	4392.2	4206.4
82.5°	357.6	369.4	310.5	280.0	265.8	249.4	296.4	301.1	752.8	1555.0	1757.4
85°	228.2	232.9	190.6	164.7	157.6	150.6	188.2	164.7	287.0	1143.3	1660.9
87.5°	80.0	91.7	72.9	65.9	70.6	58.8	87.0	49.4	80.0	806.9	999.8
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)