

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: P885345

Luminaire Tested: **NAV-SB6C-830-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885345
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-830-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 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: 39347 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

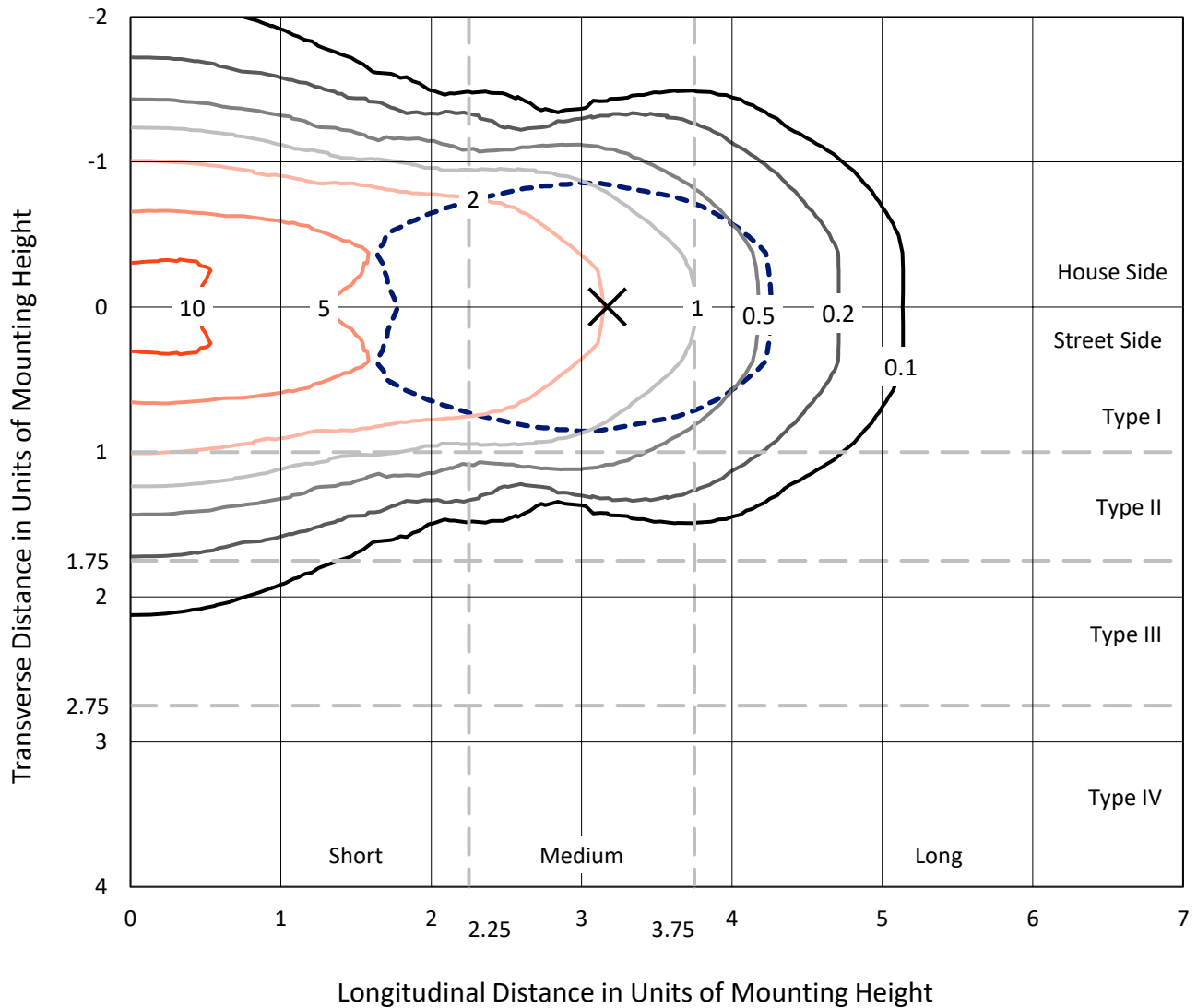
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

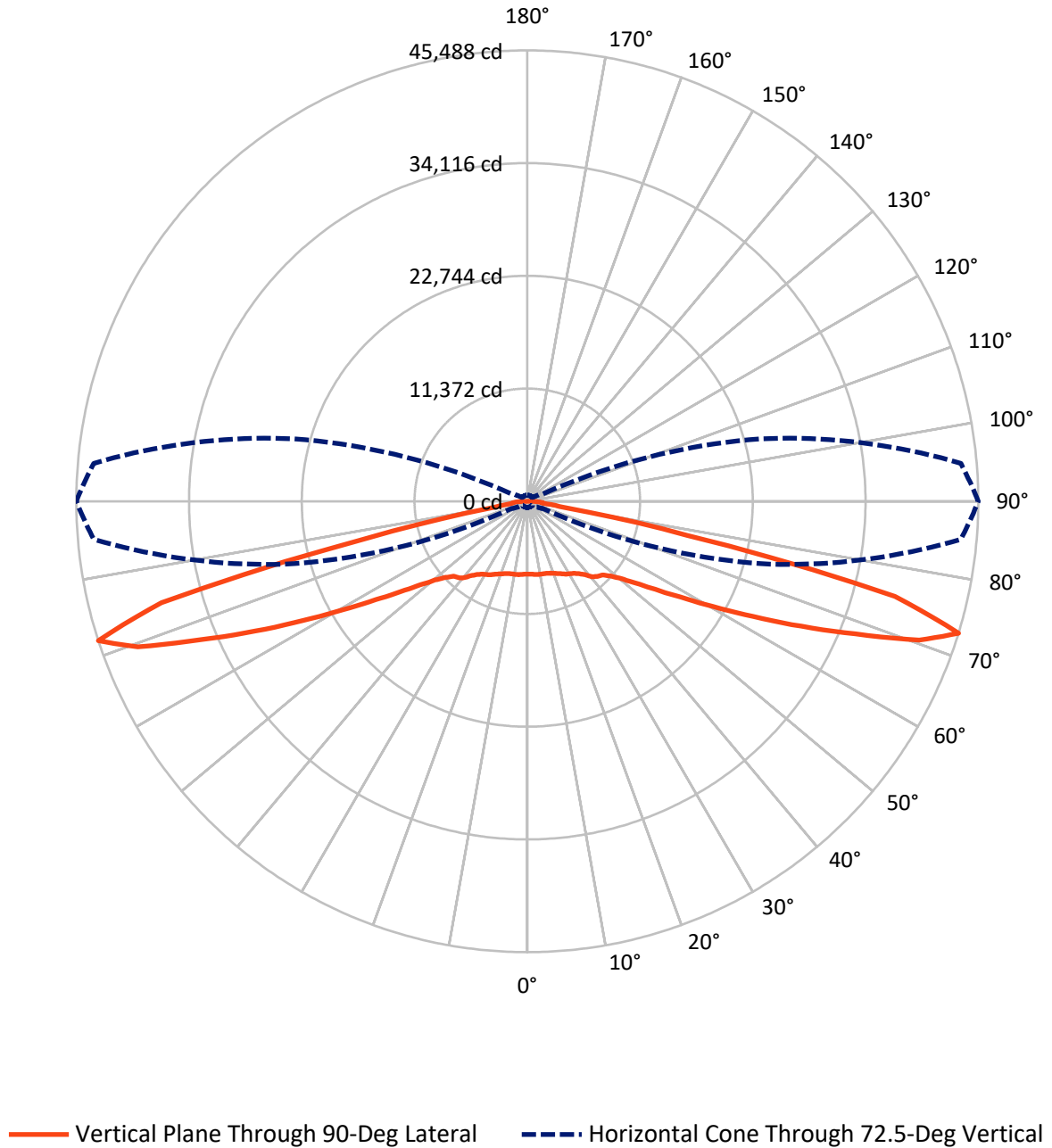
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19673.5	0.0	19673.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19673.5	0.0	19673.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	39347.0	0.0	39347.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	712.9	1.8
10°-20°	2179.8	5.5
20°-30°	3634.6	9.2
30°-40°	4998.7	12.7
40°-50°	6104.7	15.5
50°-60°	7060.8	17.9
60°-70°	8418.8	21.4
70°-80°	5875.8	14.9
80°-90°	360.9	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°	39347.0	100.0
0°-180°	39347.0	100.0

Coefficient of Utilization

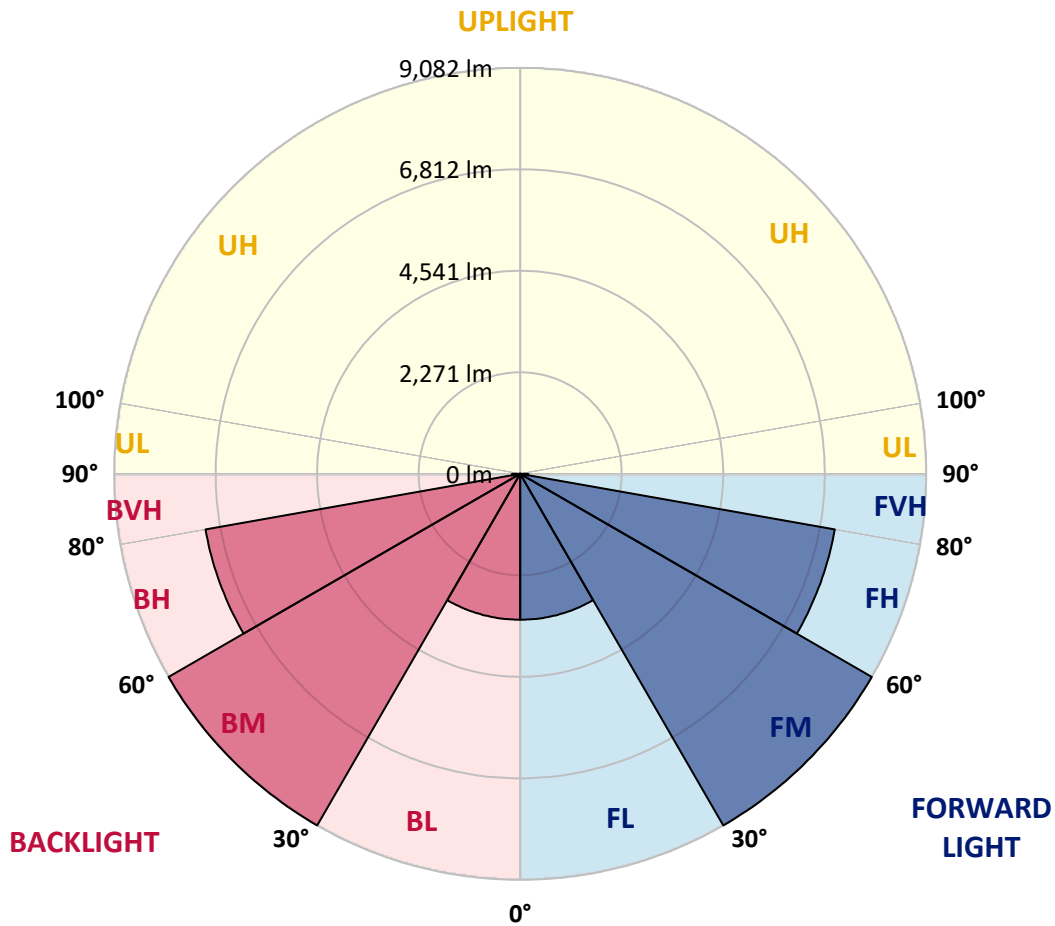


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3263.6	8.3			
FM (30°-60°)	9082.1	23.1			
FH (60°-80°)	7147.3	18.2			G3/7500
FVH (80°-90°)	180.4	0.5			G2/225
BL (0°-30°)	3263.6	8.3	B4/5000		
BM (30°-60°)	9082.1	23.1	B5		
BH (60°-80°)	7147.3	18.2	B5		G5
BVH (80°-90°)	180.4	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7352.4	7352.4	7352.4	7352.4	7352.4	7352.4	7352.4	7352.4	7352.4	7352.4	7352.4
2.5°	7358.7	7367.0	7367.0	7360.8	7375.4	7362.9	7362.9	7356.6	7362.9	7356.6	7356.6
5°	7396.3	7406.8	7411.0	7408.9	7427.7	7417.2	7417.2	7408.9	7411.0	7404.7	7404.7
7.5°	7467.4	7482.1	7490.4	7500.9	7528.1	7515.5	7507.1	7482.1	7471.6	7454.9	7454.9
10°	7490.4	7507.1	7534.3	7588.7	7651.4	7653.5	7628.4	7565.7	7517.6	7480.0	7473.7
12.5°	7419.3	7442.3	7498.8	7609.6	7749.7	7806.2	7766.4	7661.9	7567.8	7500.9	7490.4
15°	7329.4	7354.5	7440.2	7607.5	7814.5	7946.3	7942.1	7804.1	7653.5	7549.0	7532.2
17.5°	7189.3	7214.4	7337.8	7572.0	7864.7	8082.2	8140.8	7998.6	7787.4	7647.3	7624.2
20°	6936.3	6959.3	7130.7	7459.0	7881.5	8226.5	8379.1	8253.7	7990.2	7799.9	7764.4
22.5°	6608.0	6643.5	6844.3	7264.6	7841.7	8377.1	8651.0	8565.3	8226.5	7963.0	7914.9
25°	6256.7	6294.3	6528.5	7026.2	7739.3	8485.8	8973.0	8918.7	8494.2	8165.9	8098.9
27.5°	5953.4	5993.2	6248.3	6789.9	7580.3	8527.6	9290.9	9318.1	8818.3	8389.6	8318.5
30°	5715.0	5752.7	6024.5	6599.6	7375.4	8485.8	9569.0	9757.2	9148.7	8584.1	8481.6
32.5°	5453.7	5501.8	5788.2	6367.5	7132.8	8385.4	9811.6	10231.9	9531.4	8793.2	8663.5
35°	5123.3	5167.2	5468.3	6049.6	6815.0	8224.4	10014.4	10758.8	10079.2	9111.0	8966.8
37.5°	4721.8	4763.6	5062.6	5652.3	6499.2	7998.6	10169.2	11352.7	10731.7	9569.0	9376.6
40°	4318.2	4357.9	4638.1	5209.0	6120.7	7710.0	10223.5	11934.1	11480.3	10198.4	9993.5
42.5°	3948.0	3983.6	4240.8	4772.0	5696.2	7341.9	10152.4	12440.1	12151.5	10637.6	10374.1
45°	3607.2	3638.6	3866.5	4362.1	5255.0	6894.4	9939.1	12983.8	12950.3	10951.2	10595.7
47.5°	3218.2	3249.6	3485.9	3964.8	4813.8	6369.6	9577.4	13519.1	14060.7	11662.2	11252.4
50°	2743.6	2770.7	3013.3	3506.8	4355.8	5811.2	9075.5	13939.5	15461.8	12739.1	12224.7
52.5°	2181.0	2210.3	2446.6	2940.1	3812.1	5211.1	8414.7	14213.4	17080.3	14311.7	13678.1
55°	1622.7	1643.6	1848.6	2291.9	3138.8	4527.3	7586.6	14290.8	18916.3	16461.4	15668.8
57.5°	1177.3	1189.9	1321.6	1652.0	2379.7	3672.0	6580.8	14090.0	21101.6	19217.5	18220.0
60°	953.6	957.7	997.5	1143.8	1654.1	2705.9	5365.8	13399.9	23472.9	22770.3	21513.5
62.5°	865.7	865.7	876.2	915.9	1118.8	1785.8	3895.8	11969.6	26015.7	27259.9	25576.6
65°	805.1	805.1	809.3	828.1	882.5	1137.6	2459.2	9640.1	28159.1	32519.1	30390.3
67.5°	750.7	752.8	750.7	757.0	788.4	840.6	1426.1	6658.1	29313.4	37968.6	35670.4
70°	694.3	698.4	688.0	688.0	713.1	715.2	892.9	3651.1	28355.7	42535.6	41931.3
72.5°	627.3	633.6	616.9	612.7	631.5	623.2	671.3	1752.4	24344.9	43899.0	45488.3
75°	568.8	577.2	539.5	529.1	529.1	522.8	545.8	899.2	15800.6	35810.5	38303.2
77.5°	516.5	533.2	472.6	439.1	430.8	412.0	445.4	550.0	6911.2	16812.7	16463.4
80°	426.6	449.6	388.9	349.2	334.6	313.7	351.3	384.8	2055.6	3904.1	3738.9
82.5°	317.9	328.3	276.0	248.8	236.3	221.7	263.5	267.7	669.2	1382.2	1562.1
85°	202.8	207.0	169.4	146.4	140.1	133.8	167.3	146.4	255.1	1016.3	1476.3
87.5°	71.1	81.6	64.8	58.6	62.7	52.3	77.4	43.9	71.1	717.3	888.7
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)