

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: P885475

Luminaire Tested: **NAV-SB6D-740-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885475
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-SB6D-740-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65876 lumens
Efficiency: N/A
Efficacy: 149.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

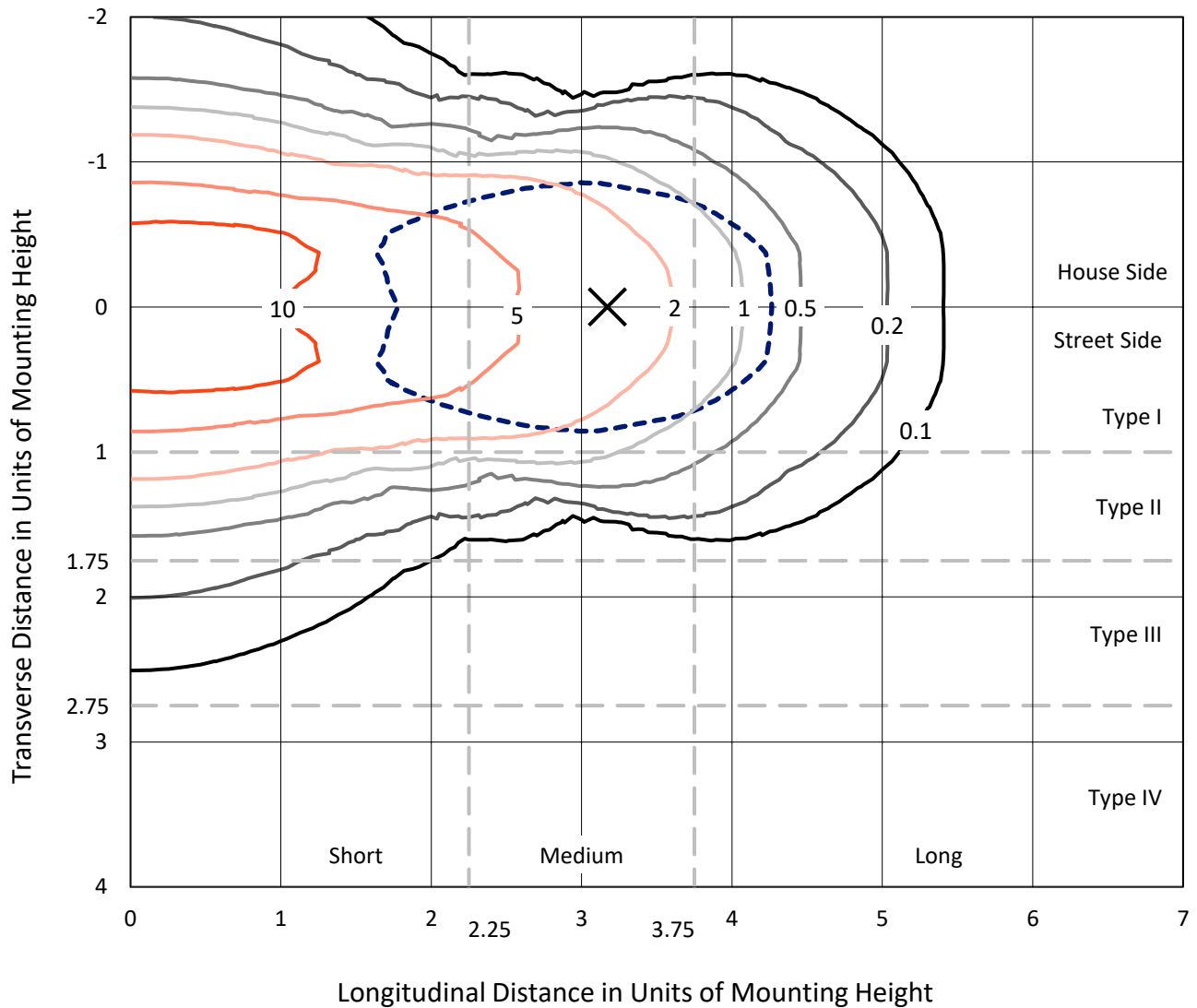
Input Watts (W): 440.1
Input Voltage (V): 120.0
Input Current (Ain): 3.68
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

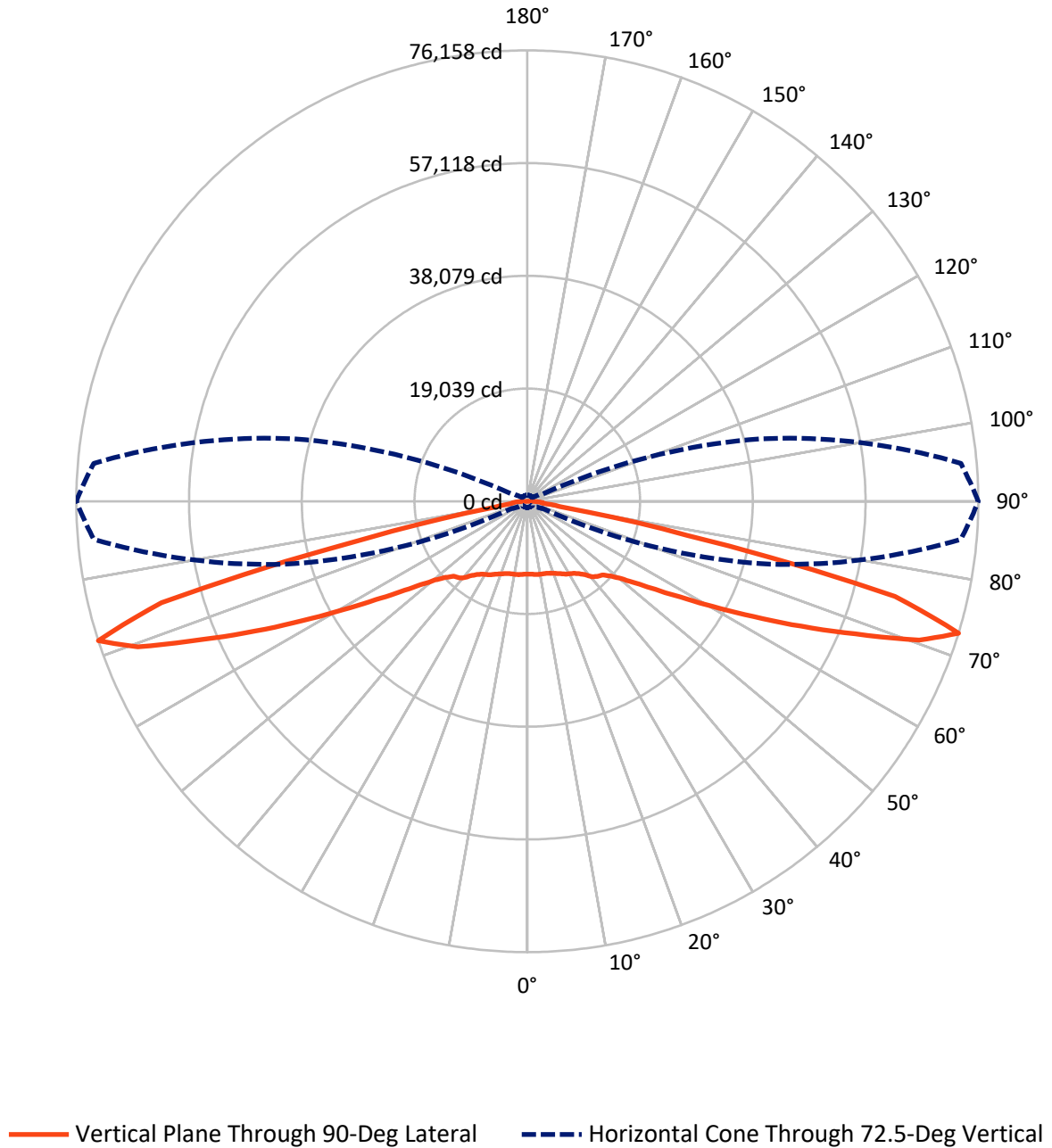
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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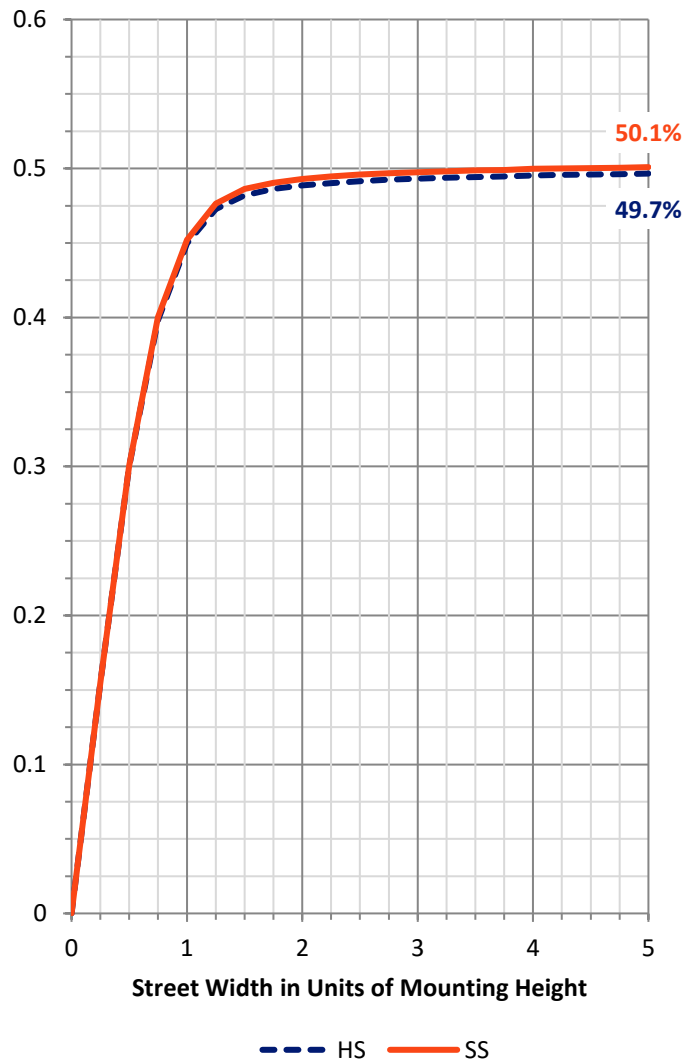
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	32938.0	0.0	32938.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	32938.0	0.0	32938.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	65876.0	0.0	65876.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1193.6	1.8
10°-20°	3649.4	5.5
20°-30°	6085.1	9.2
30°-40°	8368.9	12.7
40°-50°	10220.8	15.5
50°-60°	11821.4	17.9
60°-70°	14095.1	21.4
70°-80°	9837.4	14.9
80°-90°	604.2	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°	65876.0	100.0
0°-180°	65876.0	100.0

Coefficient of Utilization



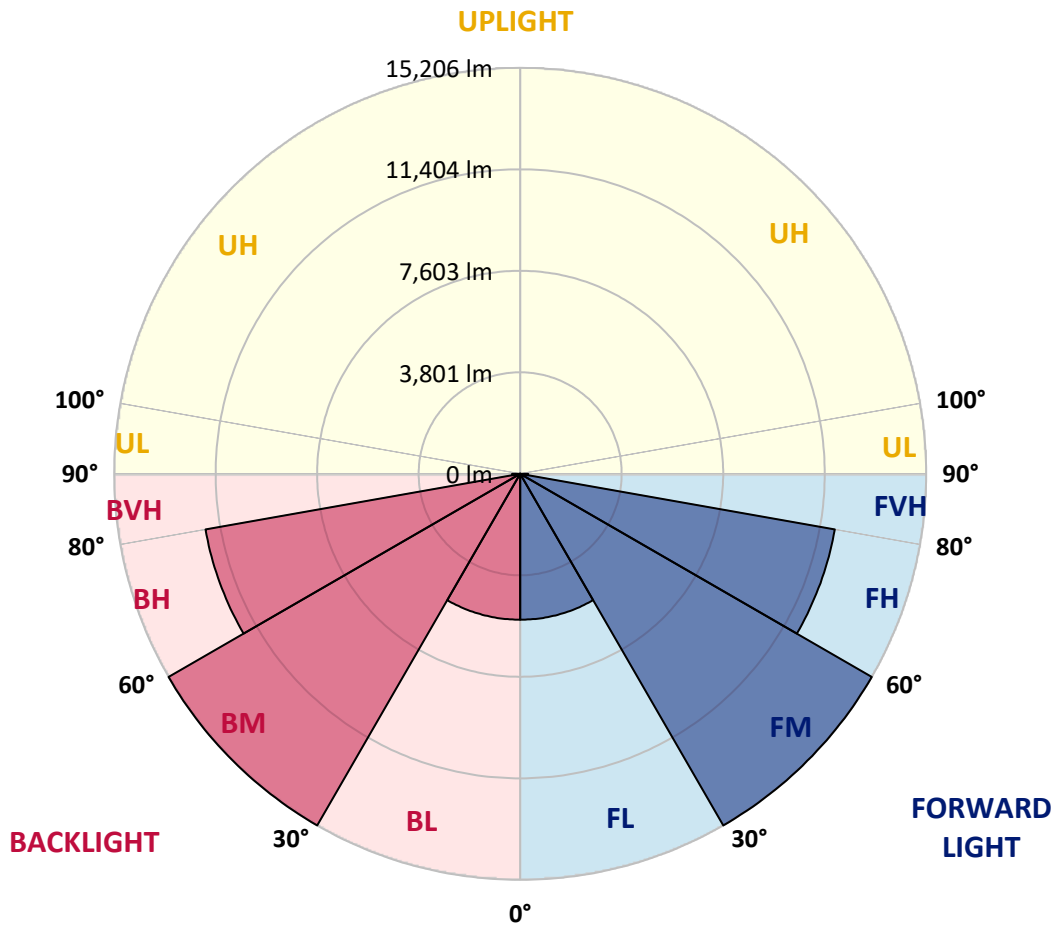
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5464.1	8.3			
FM (30°-60°)	15205.5	23.1			
FH (60°-80°)	11966.3	18.2			G4/12000
FVH (80°-90°)	302.1	0.5			G3/500
BL (0°-30°)	5464.1	8.3	B5		
BM (30°-60°)	15205.5	23.1	B5		
BH (60°-80°)	11966.3	18.2	B5		G5
BVH (80°-90°)	302.1	0.5			G3/500
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°	12309.6	12309.6	12309.6	12309.6	12309.6	12309.6	12309.6	12309.6	12309.6	12309.6	12309.6
2.5°	12320.1	12334.1	12334.1	12323.6	12348.1	12327.1	12327.1	12316.6	12327.1	12316.6	12316.6
5°	12383.1	12400.7	12407.7	12404.2	12435.7	12418.2	12418.2	12404.2	12407.7	12397.2	12397.2
7.5°	12502.2	12526.7	12540.7	12558.2	12603.7	12582.7	12568.7	12526.7	12509.2	12481.2	12481.2
10°	12540.7	12568.7	12614.2	12705.2	12810.3	12813.8	12771.8	12666.7	12586.2	12523.2	12512.7
12.5°	12421.7	12460.2	12554.7	12740.3	12974.8	13069.3	13002.8	12827.8	12670.2	12558.2	12540.7
15°	12271.1	12313.1	12456.7	12736.8	13083.4	13303.9	13296.9	13065.8	12813.8	12638.7	12610.7
17.5°	12036.5	12078.6	12285.1	12677.2	13167.4	13531.5	13629.5	13391.4	13037.8	12803.3	12764.8
20°	11612.9	11651.4	11938.5	12488.2	13195.4	13773.1	14028.6	13818.6	13377.4	13058.8	12999.3
22.5°	11063.3	11122.8	11458.9	12162.6	13128.9	14025.1	14483.8	14340.2	13773.1	13331.9	13251.4
25°	10475.1	10538.1	10930.2	11763.5	12957.3	14207.2	15022.9	14931.9	14221.2	13671.5	13559.5
27.5°	9967.4	10034.0	10461.1	11367.8	12691.2	14277.2	15555.1	15600.6	14763.8	14046.1	13927.1
30°	9568.3	9631.3	10086.5	11049.3	12348.1	14207.2	16020.7	16335.8	15317.0	14371.7	14200.2
32.5°	9130.7	9211.2	9690.9	10660.6	11942.0	14039.1	16426.8	17130.5	15957.7	14721.8	14504.8
35°	8577.5	8651.0	9155.2	10128.5	11409.9	13769.6	16766.4	18012.8	16875.0	15254.0	15012.4
37.5°	7905.3	7975.3	8476.0	9463.3	10881.2	13391.4	17025.5	19007.1	17967.3	16020.7	15698.6
40°	7229.6	7296.1	7765.3	8721.1	10247.5	12908.3	17116.5	19980.4	19220.7	17074.5	16731.4
42.5°	6609.9	6669.5	7100.1	7989.4	9536.8	12292.1	16997.5	20827.6	20344.5	17809.7	17368.6
45°	6039.3	6091.8	6473.4	7303.2	8798.1	11542.9	16640.4	21737.9	21681.9	18334.9	17739.7
47.5°	5388.1	5440.6	5836.2	6638.0	8059.4	10664.1	16034.7	22634.2	23540.9	19525.3	18839.0
50°	4593.4	4638.9	5045.0	5871.2	7292.6	9729.4	15194.5	23337.9	25886.6	21328.3	20467.0
52.5°	3651.6	3700.6	4096.2	4922.4	6382.4	8724.6	14088.1	23796.5	28596.4	23961.1	22900.2
55°	2716.8	2751.8	3094.9	3837.1	5255.0	7579.7	12701.7	23926.0	31670.3	27560.1	26233.2
57.5°	1971.1	1992.1	2212.7	2765.8	3984.2	6147.8	11017.7	23589.9	35328.9	32174.5	30504.5
60°	1596.5	1603.5	1670.0	1915.1	2769.3	4530.3	8983.6	22434.6	39299.1	38122.7	36018.6
62.5°	1449.4	1449.4	1466.9	1533.5	1873.1	2989.9	6522.4	20039.9	43556.3	45639.4	42821.1
65°	1347.9	1347.9	1354.9	1386.4	1477.4	1904.6	4117.2	16139.8	47144.9	54444.5	50880.5
67.5°	1256.9	1260.4	1256.9	1267.4	1319.9	1407.4	2387.7	11147.3	49077.5	63568.2	59720.6
70°	1162.3	1169.3	1151.8	1151.8	1193.9	1197.4	1494.9	6112.8	47474.0	71214.5	70202.7
72.5°	1050.3	1060.8	1032.8	1025.8	1057.3	1043.3	1123.8	2933.9	40759.0	73497.1	76157.9
75°	952.3	966.3	903.3	885.8	885.8	875.3	913.8	1505.4	26453.8	59955.2	64128.4
77.5°	864.8	892.8	791.2	735.2	721.2	689.7	745.7	920.8	11570.9	28148.3	27563.6
80°	714.2	752.7	651.2	584.7	560.2	525.2	588.2	644.2	3441.5	6536.4	6259.8
82.5°	532.2	549.7	462.1	416.6	395.6	371.1	441.1	448.1	1120.3	2314.2	2615.3
85°	339.6	346.6	283.6	245.1	234.6	224.1	280.1	245.1	427.1	1701.5	2471.7
87.5°	119.0	136.5	108.5	98.0	105.0	87.5	129.5	73.5	119.0	1200.9	1487.9
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)