

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: P884775

Luminaire Tested: **NAV-SB5D-730-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P884775  
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-SB5D-730-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

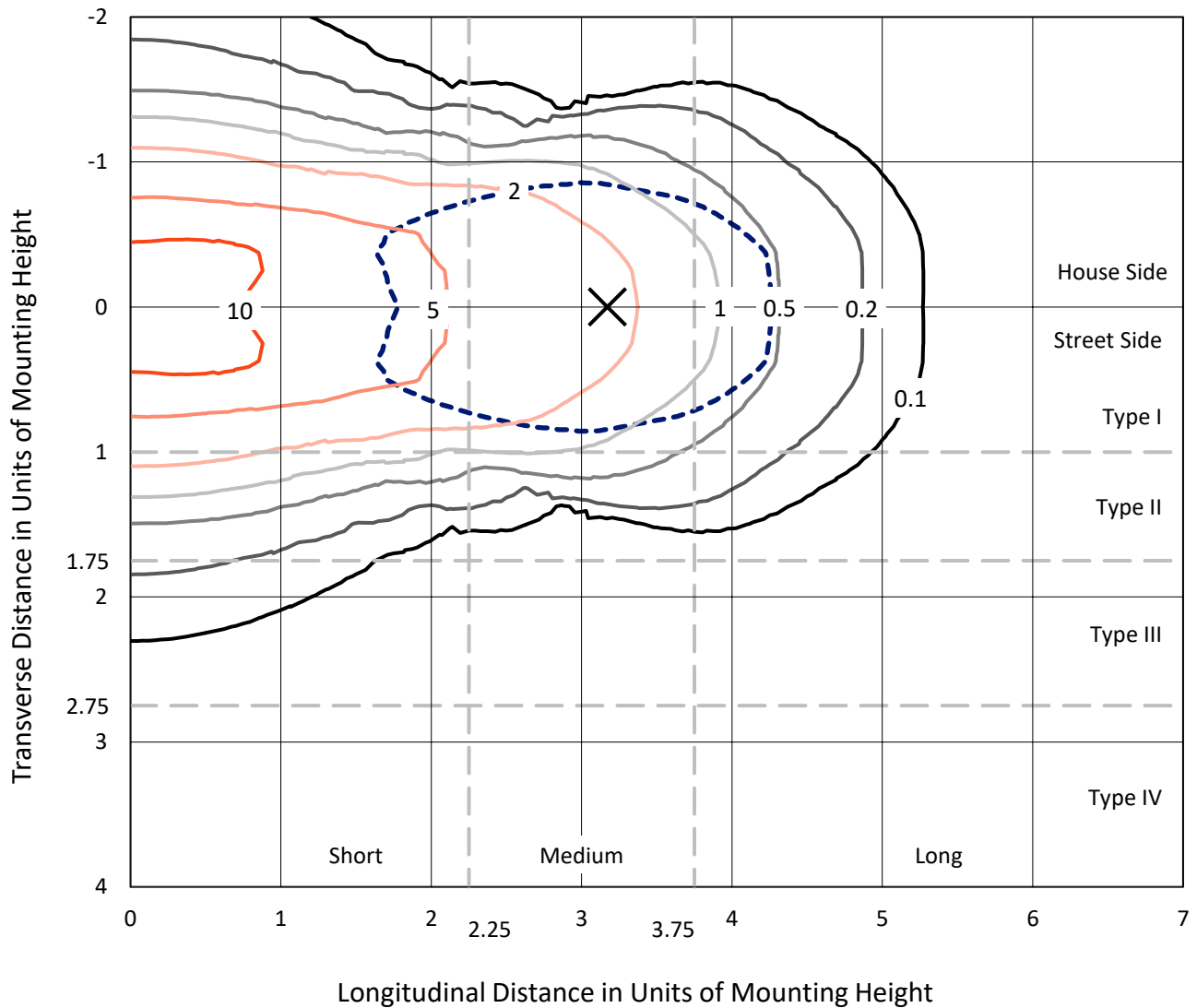
Lumens per Lamp: N/A  
Luminaire Lumens: 50284 lumens  
Efficiency: N/A  
Efficacy: 137.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 364.9  
Input Voltage (V): 120.0  
Input Current (Ain): 3.094  
Voltage Rise (V): NR  
Power Factor: 0.998  
Total Harmonic Distortion (THDi): 3.28  
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

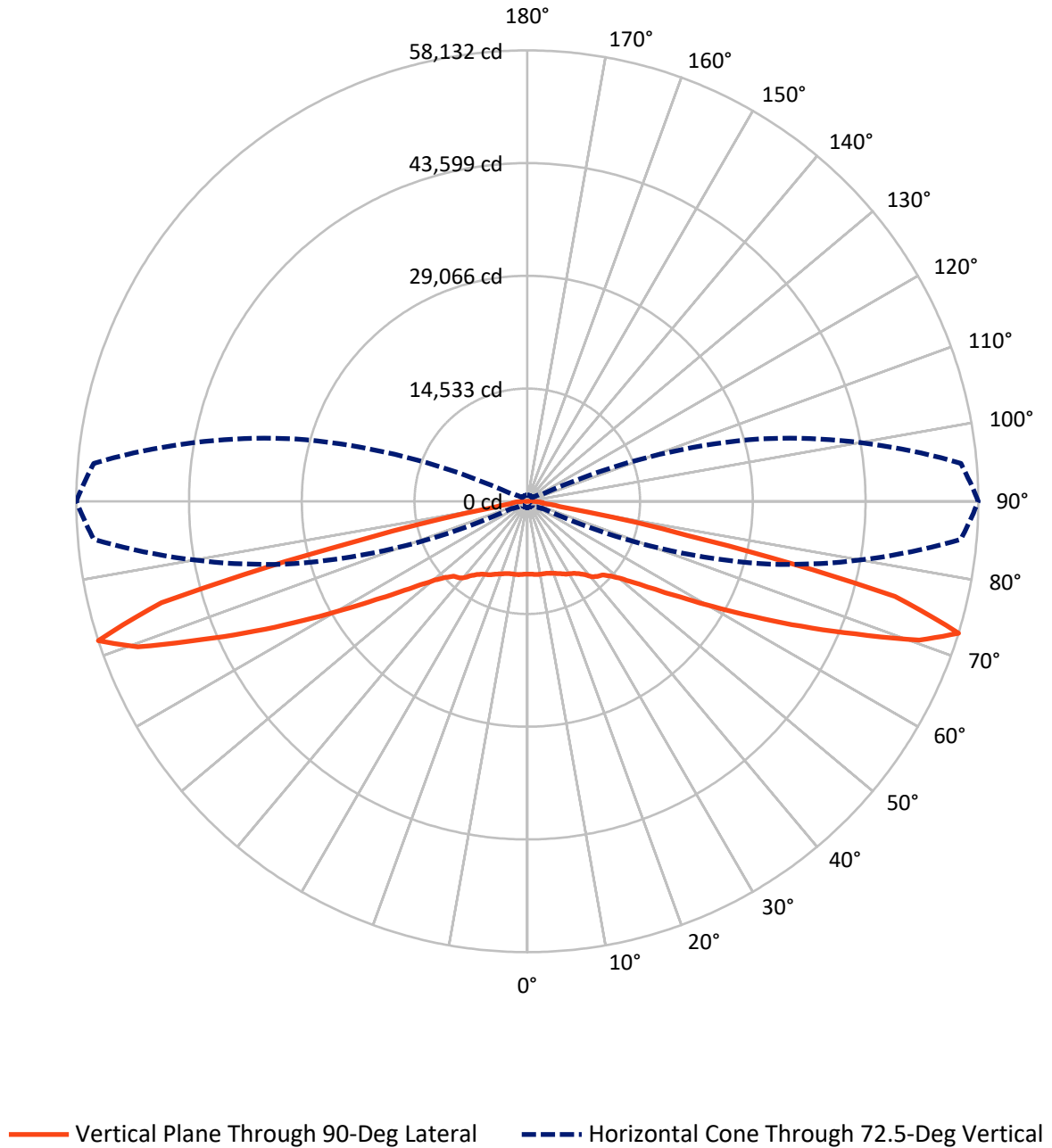
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	25142.0	0.0	25142.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	25142.0	0.0	25142.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	50284.0	0.0	50284.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	911.1	1.8
10°-20°	2785.7	5.5
20°-30°	4644.9	9.2
30°-40°	6388.1	12.7
40°-50°	7801.6	15.5
50°-60°	9023.4	17.9
60°-70°	10759.0	21.4
70°-80°	7509.0	14.9
80°-90°	461.2	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°	50284.0	100.0
0°-180°	50284.0	100.0

**Coefficient of Utilization**



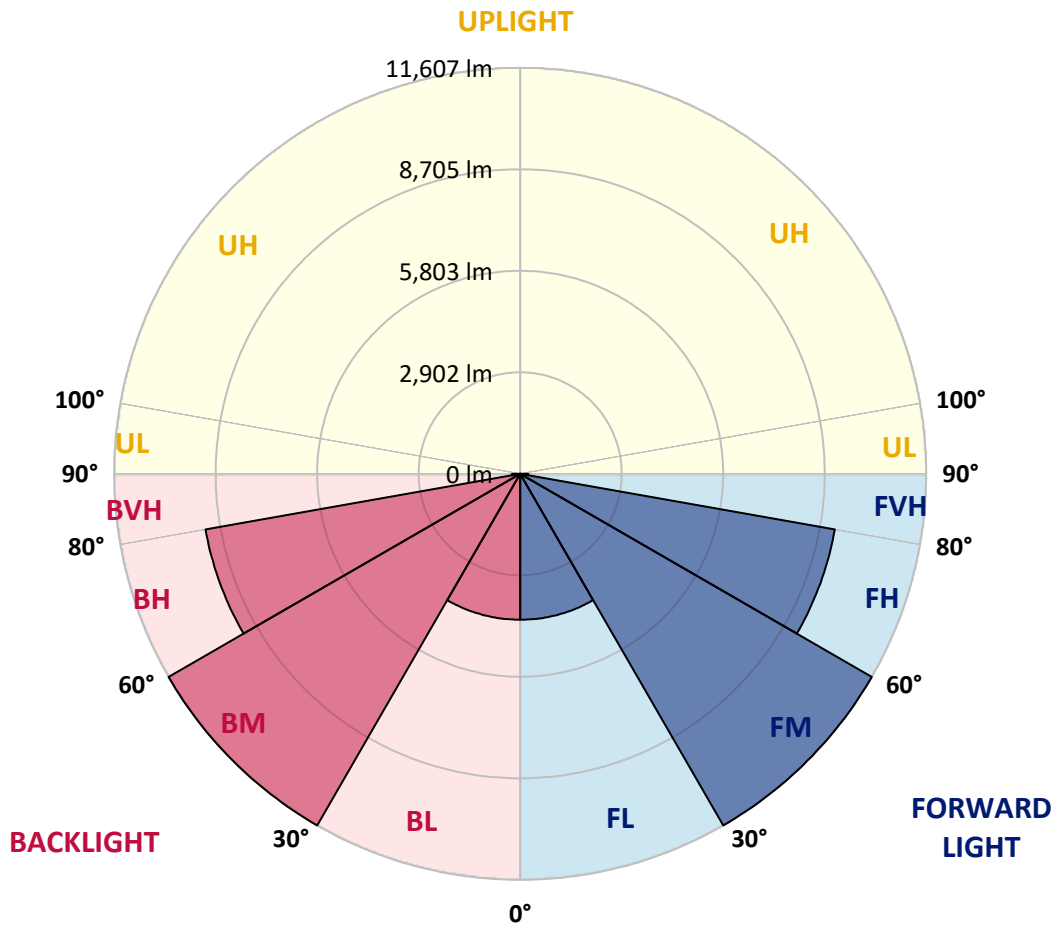
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4170.8	8.3			
FM (30°-60°)	11606.6	23.1			
FH (60°-80°)	9134.0	18.2			G4/12000
FVH (80°-90°)	230.6	0.5			G3/500
BL (0°-30°)	4170.8	8.3	B4/5000		
BM (30°-60°)	11606.6	23.1	B5		
BH (60°-80°)	9134.0	18.2	B5		G5
BVH (80°-90°)	230.6	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°	9396.1	9396.1	9396.1	9396.1	9396.1	9396.1	9396.1	9396.1	9396.1	9396.1	9396.1
2.5°	9404.1	9414.8	9414.8	9406.8	9425.5	9409.5	9409.5	9401.4	9409.5	9401.4	9401.4
5°	9452.2	9465.6	9470.9	9468.3	9492.3	9478.9	9478.9	9468.3	9470.9	9462.9	9462.9
7.5°	9543.1	9561.8	9572.5	9585.8	9620.6	9604.5	9593.9	9561.8	9548.4	9527.0	9527.0
10°	9572.5	9593.9	9628.6	9698.1	9778.2	9780.9	9748.9	9668.7	9607.2	9559.1	9551.1
12.5°	9481.6	9511.0	9583.2	9724.8	9903.8	9976.0	9925.2	9791.6	9671.4	9585.8	9572.5
15°	9366.7	9398.8	9508.3	9722.1	9986.7	10155.1	10149.7	9973.3	9780.9	9647.3	9625.9
17.5°	9187.7	9219.7	9377.4	9676.7	10050.8	10328.8	10403.6	10221.9	9952.0	9772.9	9743.5
20°	8864.3	8893.7	9112.8	9532.4	10072.2	10513.2	10708.2	10547.9	10211.2	9968.0	9922.6
22.5°	8444.7	8490.2	8746.7	9283.9	10021.4	10705.6	11055.6	10946.1	10513.2	10176.4	10115.0
25°	7995.8	8043.9	8343.2	8979.2	9890.5	10844.5	11467.2	11397.7	10855.2	10435.7	10350.1
27.5°	7608.3	7659.0	7985.1	8677.2	9687.4	10898.0	11873.4	11908.1	11269.4	10721.6	10630.7
30°	7303.6	7351.7	7699.1	8434.0	9425.5	10844.5	12228.8	12469.3	11691.7	10970.1	10839.2
32.5°	6969.6	7031.0	7397.2	8137.4	9115.5	10716.3	12538.8	13076.0	12180.7	11237.4	11071.7
35°	6547.3	6603.5	6988.3	7731.2	8709.3	10510.5	12798.0	13749.4	12880.9	11643.6	11459.2
37.5°	6034.2	6087.7	6469.8	7223.4	8305.8	10221.9	12995.8	14508.4	13714.7	12228.8	11983.0
40°	5518.5	5569.2	5927.3	6656.9	7822.1	9853.1	13065.3	15251.3	14671.4	13033.2	12771.3
42.5°	5045.5	5090.9	5419.6	6098.4	7279.6	9382.7	12974.4	15898.0	15529.2	13594.4	13257.7
45°	4609.9	4649.9	4941.2	5574.6	6715.7	8810.8	12701.8	16592.8	16550.1	13995.3	13541.0
47.5°	4112.8	4152.9	4454.9	5066.8	6151.8	8140.1	12239.5	17277.0	17969.1	14903.9	14380.1
50°	3506.2	3540.9	3850.9	4481.6	5566.6	7426.6	11598.1	17814.1	19759.6	16280.2	15622.7
52.5°	2787.3	2824.7	3126.7	3757.4	4871.8	6659.6	10753.7	18164.2	21828.0	18289.8	17480.1
55°	2073.8	2100.5	2362.4	2928.9	4011.2	5785.7	9695.4	18263.1	24174.4	21037.0	20024.2
57.5°	1504.6	1520.6	1688.9	2111.2	3041.2	4692.7	8410.0	18006.5	26967.0	24559.2	23284.5
60°	1218.6	1224.0	1274.7	1461.8	2113.9	3458.1	6857.3	17124.6	29997.5	29099.6	27493.5
62.5°	1106.4	1106.4	1119.7	1170.5	1429.7	2282.2	4978.6	15296.7	33247.1	34837.2	32685.9
65°	1028.9	1028.9	1034.2	1058.3	1127.7	1453.8	3142.7	12319.7	35986.3	41558.2	38837.7
67.5°	959.4	962.1	959.4	967.4	1007.5	1074.3	1822.6	8508.9	37461.5	48522.4	45585.5
70°	887.2	892.6	879.2	879.2	911.3	914.0	1141.1	4666.0	36237.5	54358.9	53586.6
72.5°	801.7	809.7	788.4	783.0	807.1	796.4	857.8	2239.5	31111.9	56101.3	58132.3
75°	726.9	737.6	689.5	676.1	676.1	668.1	697.5	1149.1	20192.5	45764.5	48950.0
77.5°	660.1	681.5	604.0	561.2	550.5	526.5	569.2	702.8	8832.2	21486.0	21039.7
80°	545.2	574.6	497.1	446.3	427.6	400.9	449.0	491.7	2627.0	4989.3	4778.2
82.5°	406.2	419.6	352.8	318.0	302.0	283.3	336.7	342.1	855.2	1766.4	1996.3
85°	259.2	264.6	216.5	187.1	179.0	171.0	213.8	187.1	326.0	1298.8	1886.7
87.5°	90.9	104.2	82.8	74.8	80.2	66.8	98.9	56.1	90.9	916.6	1135.8
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)