

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: P885455

Luminaire Tested: **NAV-SB6D-730-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885455  
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-730-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

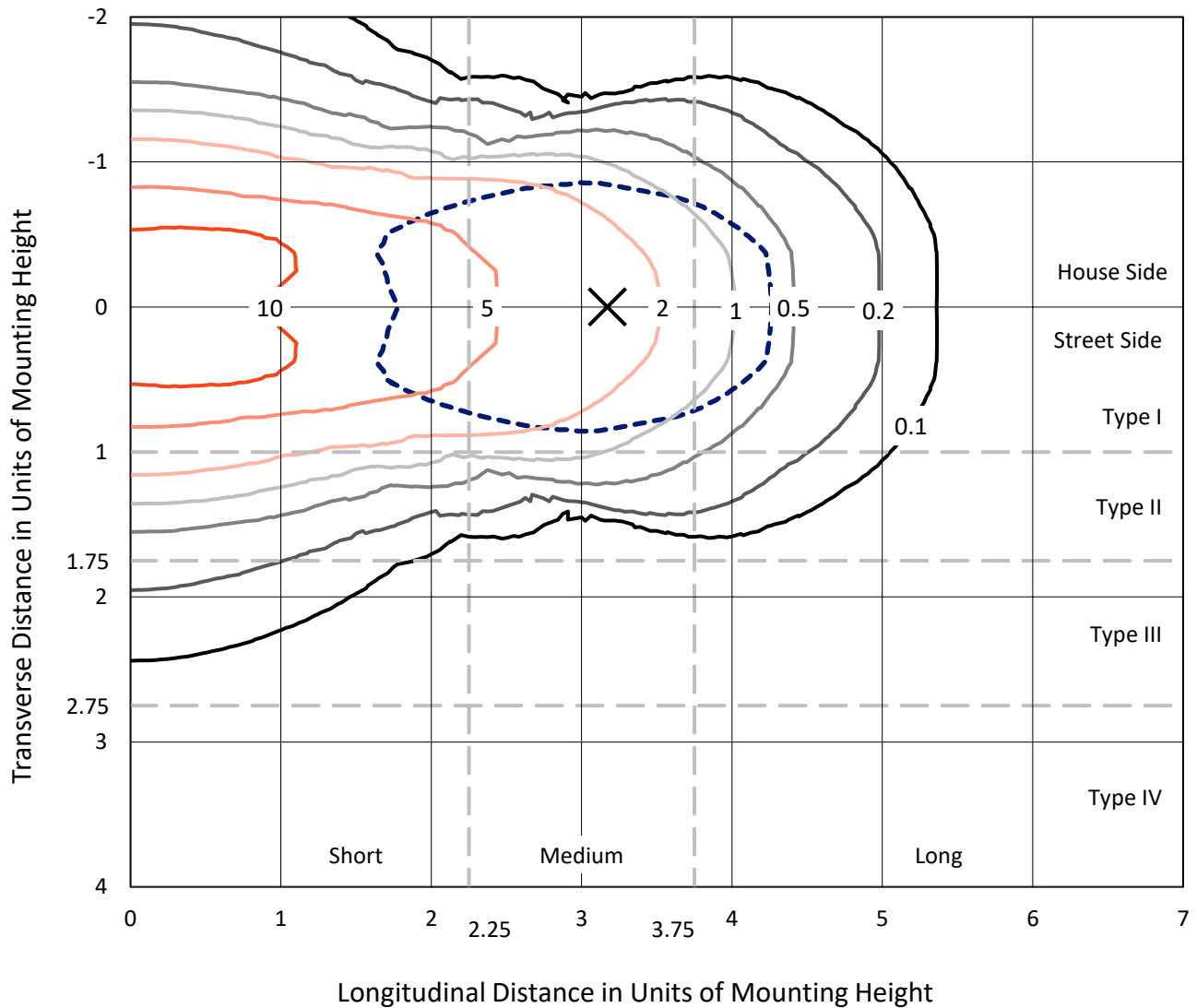
Lumens per Lamp: N/A  
Luminaire Lumens: 60148 lumens  
Efficiency: N/A  
Efficacy: 136.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): 120.0  
Input Current (Ain): 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

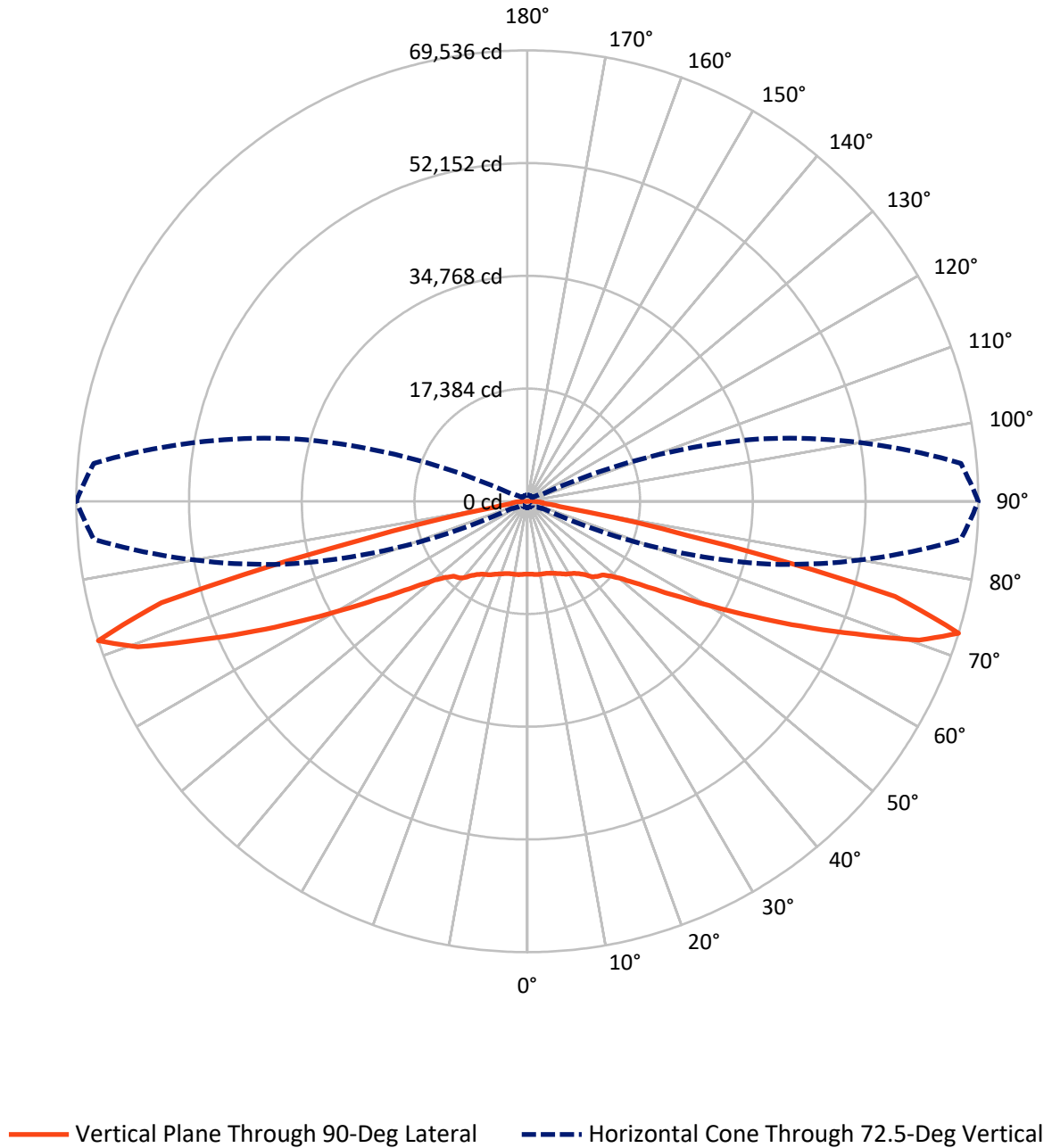
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 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	30074.0	0.0	30074.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	30074.0	0.0	30074.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	60148.0	0.0	60148.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1089.8	1.8
10°-20°	3332.1	5.5
20°-30°	5556.0	9.2
30°-40°	7641.3	12.7
40°-50°	9332.1	15.5
50°-60°	10793.5	17.9
60°-70°	12869.5	21.4
70°-80°	8982.1	14.9
80°-90°	551.7	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°	60148.0	100.0
0°-180°	60148.0	100.0

**Coefficient of Utilization**



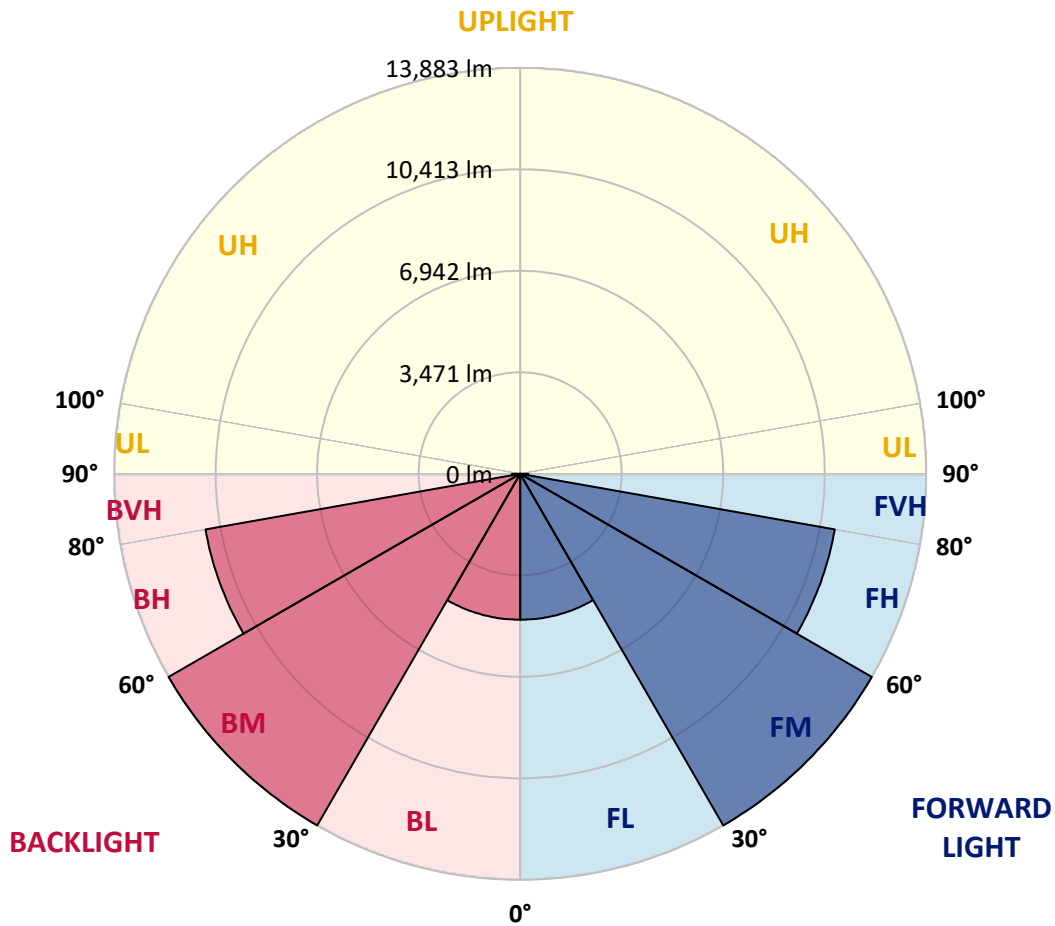
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4989.0	8.3			
FM (30°-60°)	13883.4	23.1			
FH (60°-80°)	10925.8	18.2			G4/12000
FVH (80°-90°)	275.8	0.5			G3/500
BL (0°-30°)	4989.0	8.3	B4/5000		
BM (30°-60°)	13883.4	23.1	B5		
BH (60°-80°)	10925.8	18.2	B5		G5
BVH (80°-90°)	275.8	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°	11239.3	11239.3	11239.3	11239.3	11239.3	11239.3	11239.3	11239.3	11239.3	11239.3	11239.3	11239.3
2.5°	11248.9	11261.7	11261.7	11252.1	11274.5	11255.3	11255.3	11245.7	11255.3	11245.7	11245.7	11245.7
5°	11306.4	11322.4	11328.8	11325.6	11354.4	11338.4	11338.4	11325.6	11328.8	11319.2	11319.2	11319.2
7.5°	11415.1	11437.5	11450.3	11466.2	11507.8	11488.6	11475.8	11437.5	11421.5	11395.9	11395.9	11395.9
10°	11450.3	11475.8	11517.4	11600.5	11696.4	11699.6	11661.2	11565.3	11491.8	11434.3	11434.3	11424.7
12.5°	11341.6	11376.7	11463.1	11632.5	11846.6	11933.0	11872.2	11712.4	11568.5	11466.2	11466.2	11450.3
15°	11204.1	11242.5	11373.5	11629.3	11945.7	12147.1	12140.7	11929.8	11699.6	11539.8	11539.8	11514.2
17.5°	10990.0	11028.3	11216.9	11574.9	12022.5	12354.9	12444.4	12227.0	11904.2	11690.0	11690.0	11654.8
20°	10603.2	10638.3	10900.4	11402.3	12048.0	12575.5	12808.8	12617.0	12214.3	11923.4	11923.4	11869.0
22.5°	10101.3	10155.6	10462.5	11105.0	11987.3	12805.6	13224.4	13093.3	12575.5	12172.7	12172.7	12099.2
25°	9564.3	9621.8	9979.8	10740.6	11830.7	12971.9	13716.7	13633.6	12984.6	12482.8	12482.8	12380.5
27.5°	9100.8	9161.5	9551.5	10379.4	11587.7	13035.8	14202.5	14244.1	13480.1	12824.8	12824.8	12716.1
30°	8736.3	8793.9	9209.4	10088.5	11274.5	12971.9	14627.7	14915.4	13985.2	13122.1	13122.1	12965.5
32.5°	8336.8	8410.3	8848.2	9733.7	10903.6	12818.4	14998.5	15641.0	14570.2	13441.8	13441.8	13243.6
35°	7831.7	7898.8	8359.1	9247.8	10417.8	12572.3	15308.6	16446.6	15407.7	13927.6	13927.6	13707.1
37.5°	7218.0	7281.9	7739.0	8640.4	9935.1	12227.0	15545.1	17354.4	16405.0	14627.7	14627.7	14333.6
40°	6601.0	6661.7	7090.1	7962.8	9356.5	11785.9	15628.2	18243.1	17549.4	15589.9	15589.9	15276.6
42.5°	6035.2	6089.5	6482.7	7294.7	8707.6	11223.3	15519.6	19016.6	18575.5	16261.2	16261.2	15858.4
45°	5514.2	5562.1	5910.5	6668.1	8033.1	10539.2	15193.5	19847.8	19796.6	16740.7	16740.7	16197.2
47.5°	4919.6	4967.5	5328.8	6060.8	7358.6	9736.9	14640.5	20666.1	21494.0	17827.5	17827.5	17201.0
50°	4194.0	4235.5	4606.3	5360.7	6658.5	8883.4	13873.3	21308.6	23635.8	19473.8	19473.8	18687.4
52.5°	3334.1	3378.8	3740.0	4494.4	5827.4	7966.0	12863.2	21727.4	26109.9	21877.6	21877.6	20909.0
55°	2480.6	2512.5	2825.8	3503.5	4798.1	6920.7	11597.3	21845.6	28916.6	25163.7	25163.7	23952.2
57.5°	1799.7	1818.9	2020.3	2525.3	3637.7	5613.3	10059.7	21538.8	32257.0	29376.9	29376.9	27852.1
60°	1457.7	1464.0	1524.8	1748.5	2528.5	4136.4	8202.5	20483.9	35882.0	34807.9	34807.9	32886.7
62.5°	1323.4	1323.4	1339.4	1400.1	1710.2	2729.9	5955.3	18297.4	39769.1	41671.0	41671.0	39097.8
65°	1230.7	1230.7	1237.1	1265.9	1349.0	1739.0	3759.2	14736.4	43045.6	49710.5	49710.5	46456.4
67.5°	1147.6	1150.8	1147.6	1157.2	1205.1	1285.0	2180.1	10178.0	44810.1	58040.9	58040.9	54527.8
70°	1061.3	1067.7	1051.7	1051.7	1090.0	1093.2	1365.0	5581.3	43346.1	65022.3	65022.3	64098.5
72.5°	959.0	968.6	943.0	936.6	965.4	952.6	1026.1	2678.8	37215.0	67106.5	67106.5	69535.9
75°	869.5	882.3	824.7	808.7	808.7	799.2	834.3	1374.5	24153.6	54742.0	54742.0	58552.3
77.5°	789.6	815.1	722.4	671.3	658.5	629.7	680.9	840.7	10564.8	25700.8	25700.8	25166.9
80°	652.1	687.3	594.6	533.8	511.5	479.5	537.0	588.2	3142.3	5968.1	5968.1	5715.5
82.5°	485.9	501.9	422.0	380.4	361.2	338.8	402.8	409.2	1022.9	2113.0	2113.0	2387.9
85°	310.1	316.5	258.9	223.8	214.2	204.6	255.7	223.8	390.0	1553.6	1553.6	2256.8
87.5°	108.7	124.7	99.1	89.5	95.9	79.9	118.3	67.1	108.7	1096.4	1096.4	1358.6
90°	0.0	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)