

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: P885512

Luminaire Tested: **NAV-SB6D-830-U-5WQ**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885512  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6D-830-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

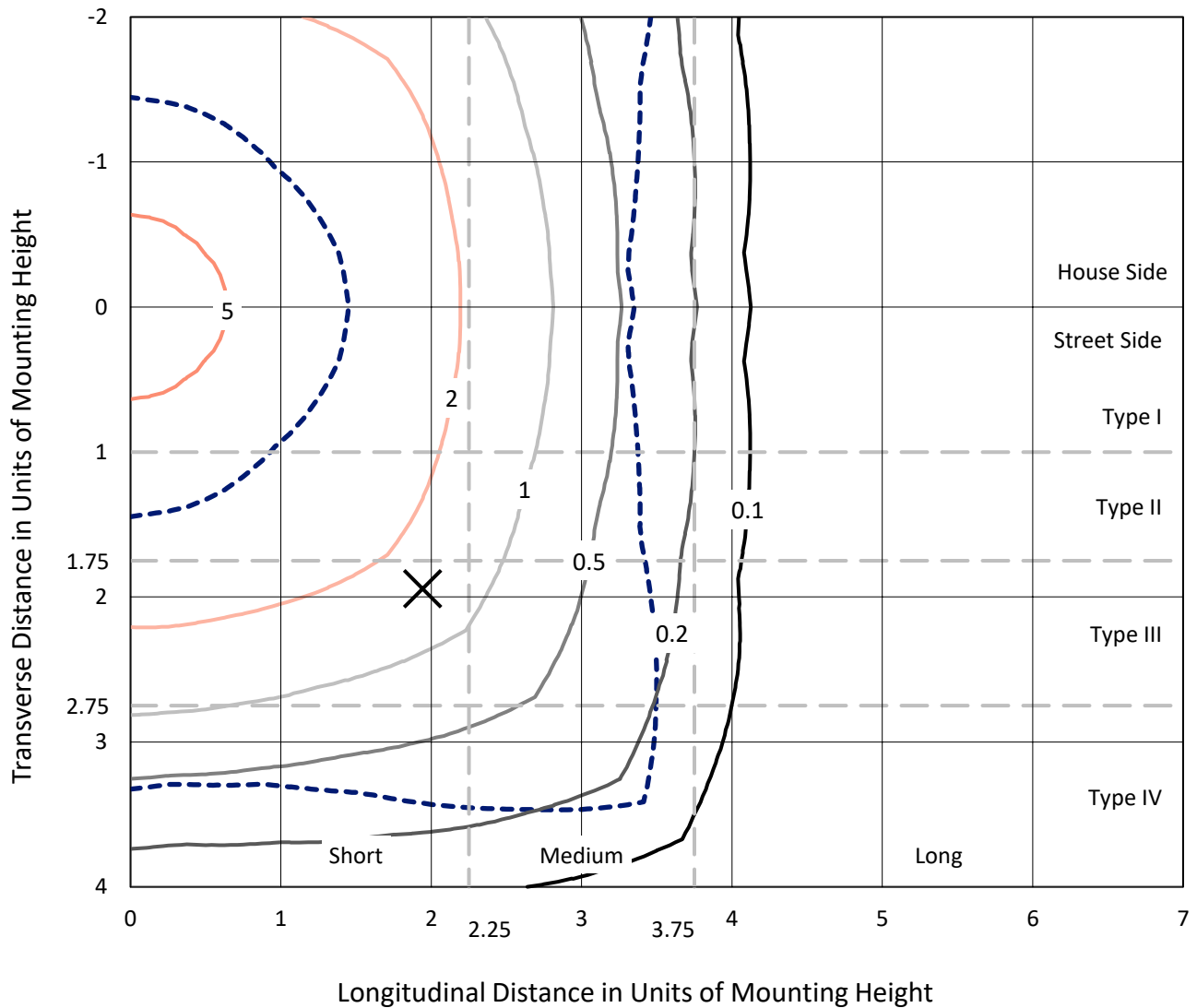
Lumens per Lamp: N/A  
Luminaire Lumens: 54666 lumens  
Efficiency: N/A  
Efficacy: 124.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): 120.0  
Input Current (Ain): 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

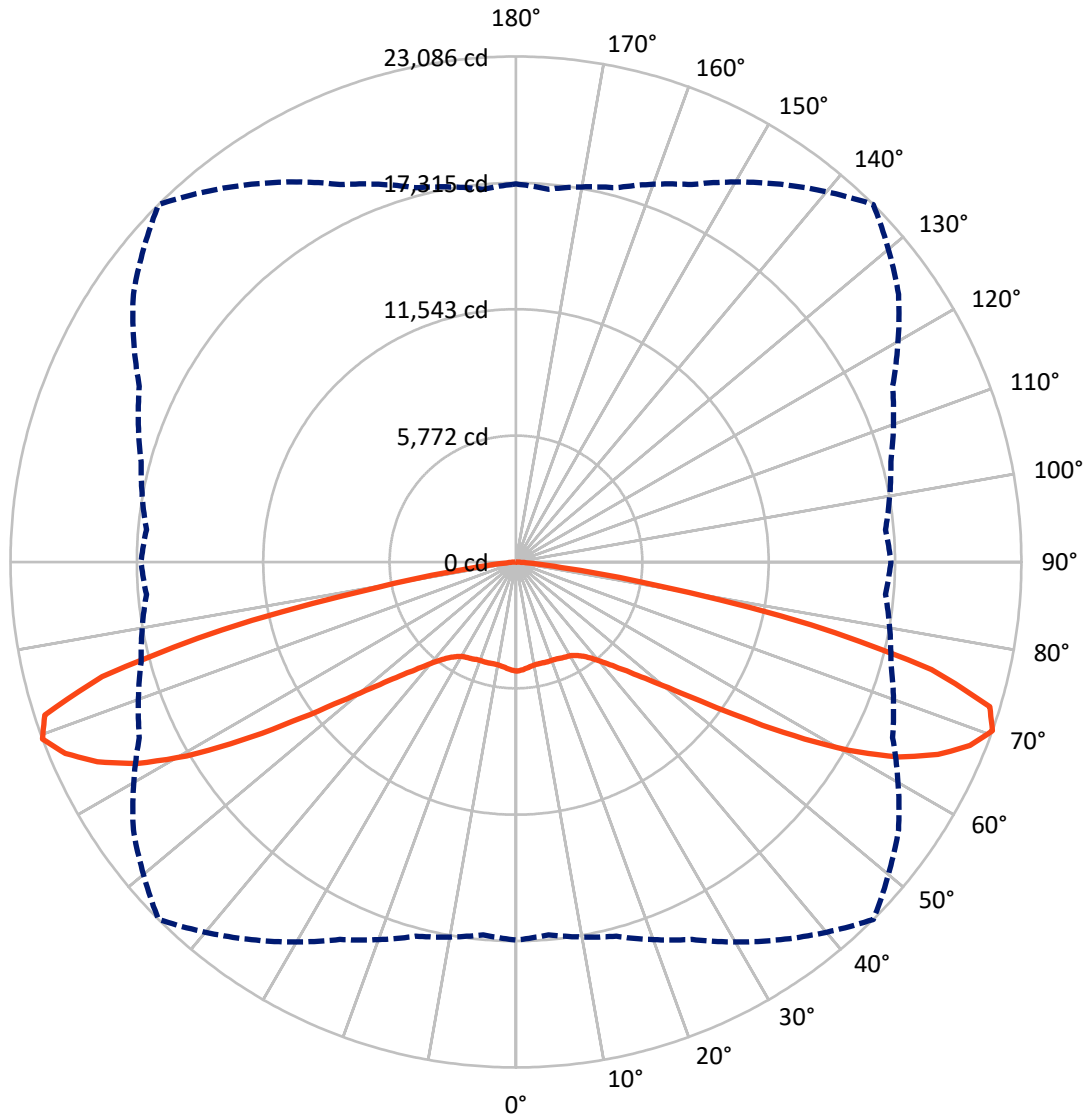
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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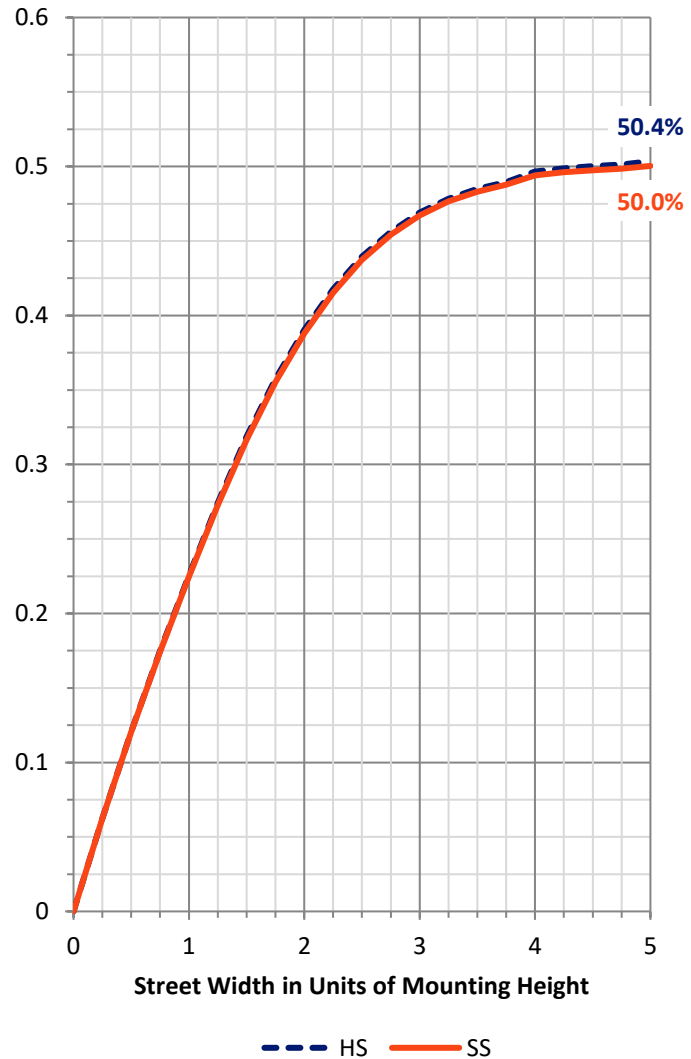
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	27333.0	0.0	27333.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	27333.0	0.0	27333.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	54666.0	0.0	54666.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	463.9	0.8
10°-20°	1362.1	2.5
20°-30°	2266.6	4.1
30°-40°	3427.9	6.3
40°-50°	5696.3	10.4
50°-60°	10748.7	19.7
60°-70°	18149.6	33.2
70°-80°	11926.2	21.8
80°-90°	624.8	1.1
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°	54666.0	100.0
0°-180°	54666.0	100.0



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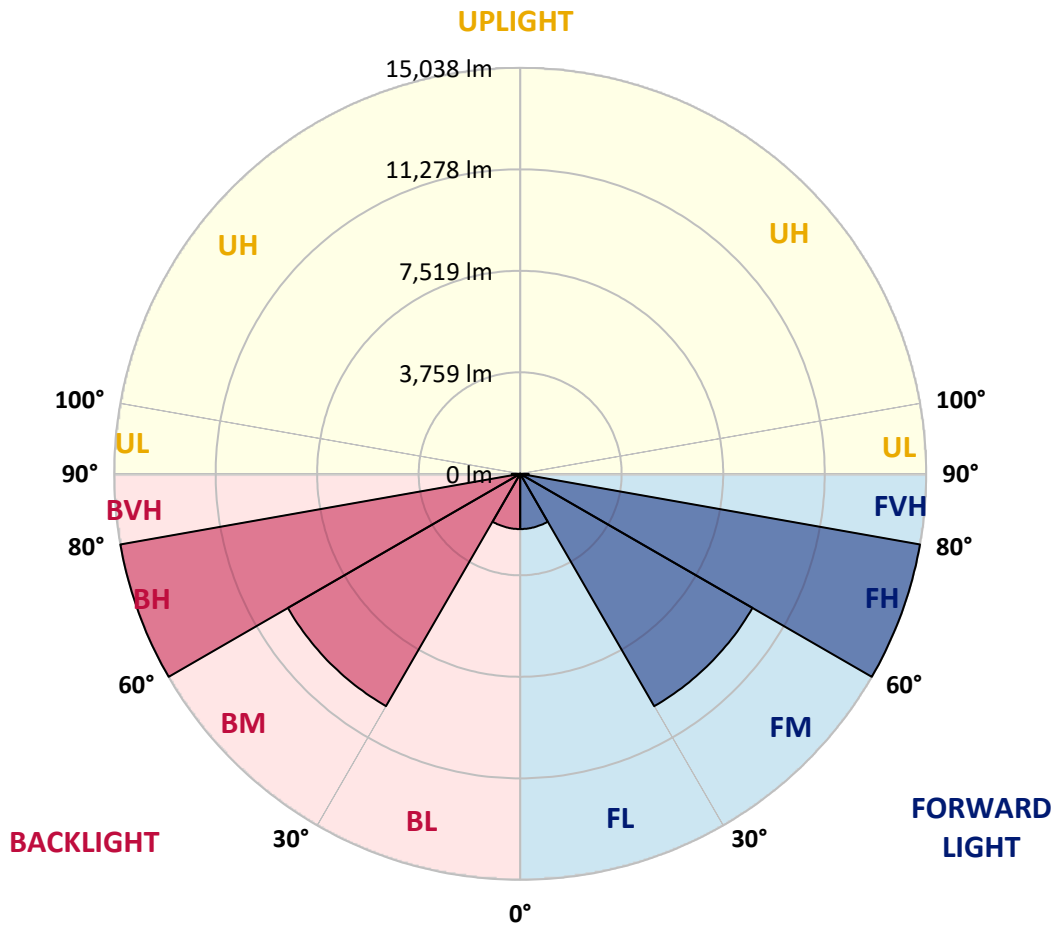
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2046.3	3.7			
FM (30°-60°)	9936.4	18.2			
FH (60°-80°)	15037.9	27.5			G5
FVH (80°-90°)	312.4	0.6			G3/500
BL (0°-30°)	2046.3	3.7	B3/2500		
BM (30°-60°)	9936.4	18.2	B5		
BH (60°-80°)	15037.9	27.5	B5		G5
BVH (80°-90°)	312.4	0.6			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 V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4986.6	4986.6	4986.6	4986.6	4986.6	4986.6	4986.6	4986.6	4986.6	4986.6	4986.6
2.5°	4955.4	4969.6	4963.9	4952.5	4952.5	4944.0	4952.5	4958.2	4966.8	4972.4	4969.6
5°	4890.0	4901.4	4898.6	4890.0	4892.9	4884.3	4890.0	4898.6	4904.2	4907.1	4907.1
7.5°	4833.2	4844.6	4838.9	4824.7	4824.7	4816.2	4819.0	4827.5	4836.0	4838.9	4838.9
10°	4819.0	4830.4	4813.3	4790.6	4782.1	4770.7	4773.5	4782.1	4799.1	4807.6	4807.6
12.5°	4824.7	4833.2	4816.2	4782.1	4773.5	4762.2	4762.2	4770.7	4793.4	4804.8	4807.6
15°	4841.7	4850.3	4824.7	4787.7	4779.2	4770.7	4767.9	4779.2	4804.8	4824.7	4827.5
17.5°	4873.0	4881.5	4841.7	4790.6	4779.2	4782.1	4779.2	4787.7	4827.5	4864.5	4864.5
20°	4901.4	4907.1	4853.1	4790.6	4779.2	4782.1	4779.2	4796.3	4847.4	4898.6	4901.4
22.5°	4909.9	4915.6	4864.5	4810.5	4801.9	4804.8	4801.9	4819.0	4867.3	4918.4	4918.4
25°	4912.8	4921.3	4881.5	4838.9	4853.1	4858.8	4853.1	4855.9	4892.9	4938.3	4935.5
27.5°	4955.4	4966.8	4929.8	4892.9	4901.4	4898.6	4907.1	4915.6	4944.0	4989.5	4978.1
30°	5043.5	5052.0	5020.7	4983.8	4978.1	4958.2	4983.8	5012.2	5043.5	5083.2	5074.7
32.5°	5188.4	5205.4	5165.6	5125.9	5100.3	5088.9	5108.8	5157.1	5199.7	5242.4	5225.3
35°	5429.9	5441.3	5404.3	5330.4	5285.0	5285.0	5302.0	5364.5	5432.7	5486.7	5466.8
37.5°	5770.9	5785.1	5719.7	5631.6	5563.4	5563.4	5586.2	5651.5	5753.8	5830.5	5802.1
40°	6185.7	6205.6	6123.2	6032.3	5966.9	5955.6	5984.0	6057.8	6154.5	6251.1	6219.8
42.5°	6685.8	6708.5	6600.5	6521.0	6469.8	6469.8	6484.1	6552.2	6640.3	6759.7	6751.1
45°	7325.1	7364.9	7217.1	7137.6	7089.3	7100.6	7109.2	7168.8	7248.4	7384.8	7379.1
47.5°	8086.6	8126.4	7970.1	7887.7	7879.2	7933.2	7899.1	7941.7	7984.3	8140.6	8095.1
50°	8950.4	9018.6	8910.6	8904.9	8922.0	9021.4	8941.9	8964.6	8916.3	9015.7	8956.1
52.5°	10007.4	10106.8	10086.9	10121.0	10311.4	10516.0	10334.1	10254.6	10072.7	10104.0	9998.9
55°	11288.8	11439.4	11467.9	11672.4	12104.3	12522.0	12135.6	11814.5	11428.1	11357.0	11246.2
57.5°	12746.5	12865.8	13002.2	13419.9	14226.8	14968.4	14226.8	13516.5	12908.4	12763.5	12661.2
60°	14314.9	14462.7	14593.4	15210.0	16409.0	17451.8	16386.3	15258.3	14454.2	14258.1	14087.6
62.5°	15999.9	16190.2	16281.2	16965.9	18363.9	19608.4	18383.8	17017.1	16124.9	15914.6	15744.1
65°	17616.6	17772.9	17875.2	18605.4	19940.9	21188.2	20031.8	18685.0	17767.2	17491.6	17355.2
67.5°	18369.6	18454.8	18704.9	19531.7	20941.0	22364.6	21179.7	19619.8	18594.1	18111.0	18116.7
70°	17267.1	17093.8	17696.2	19020.3	21060.4	23086.3	21333.2	18980.5	17724.6	16940.4	17127.9
72.5°	13343.2	13044.8	14090.5	16355.0	19696.5	22626.0	19832.9	16482.9	14741.1	13150.0	13544.9
75°	7259.8	6921.6	8365.1	11229.2	15707.2	19611.3	16068.1	11550.3	9314.1	7205.8	7674.6
77.5°	2048.6	1920.8	3085.7	5432.7	9447.6	13769.4	9811.3	5552.1	3659.7	2170.8	2412.3
80°	627.9	608.1	824.0	1636.6	4012.0	6594.9	3855.8	1656.5	1048.5	662.0	699.0
82.5°	372.2	341.0	409.2	596.7	1022.9	2071.4	994.5	622.3	500.1	335.3	363.7
85°	213.1	198.9	241.5	289.8	343.8	440.4	287.0	295.5	267.1	179.0	187.5
87.5°	88.1	79.6	93.8	90.9	79.6	102.3	76.7	90.9	108.0	71.0	65.4
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)