

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: P885502

Luminaire Tested: **NAV-SB6D-827-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885502
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-827-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 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: 50762 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

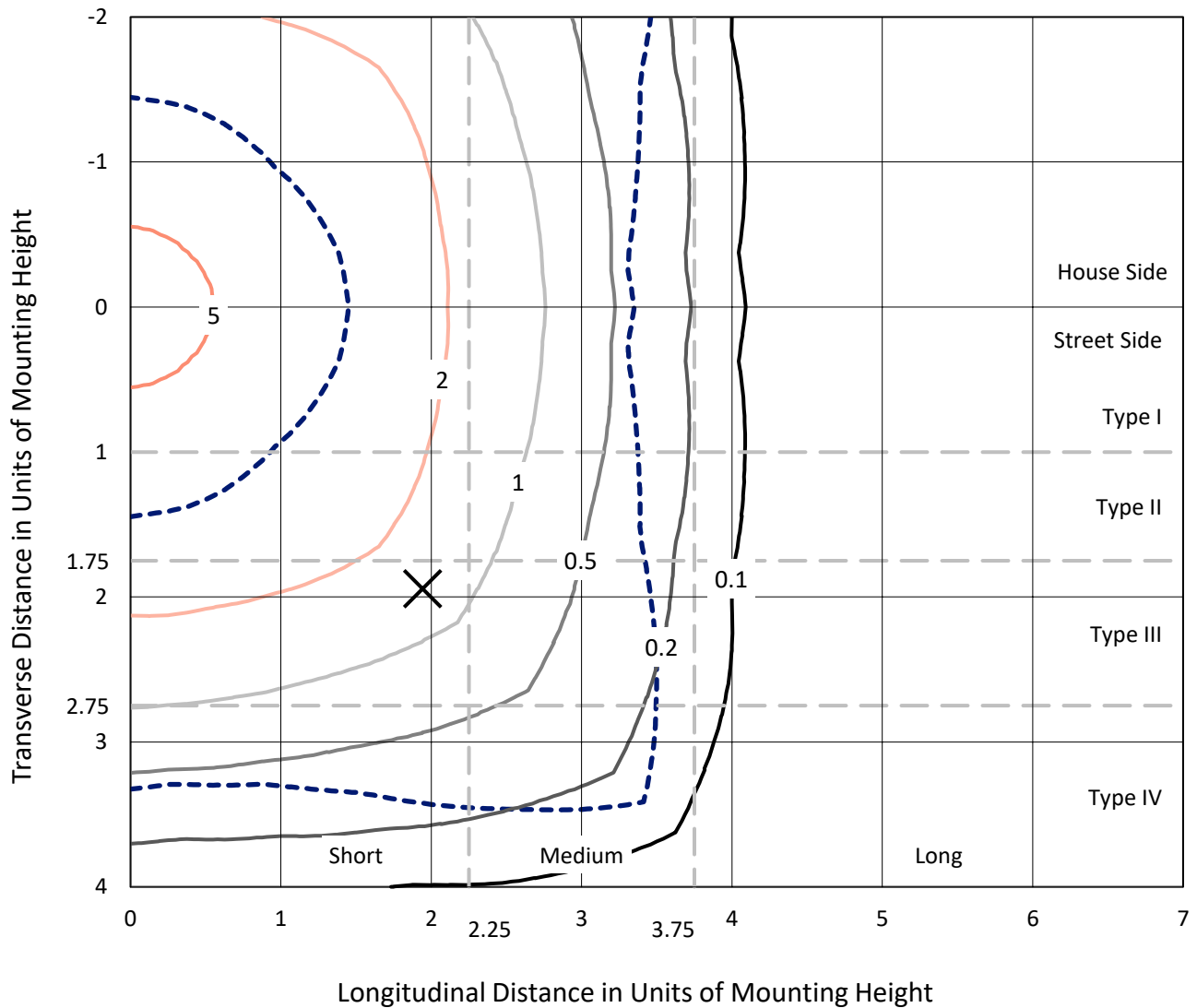
Input Watts (W): 440.1
Input Voltage (V): 120.0
Input Current (Ain): 3.68
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

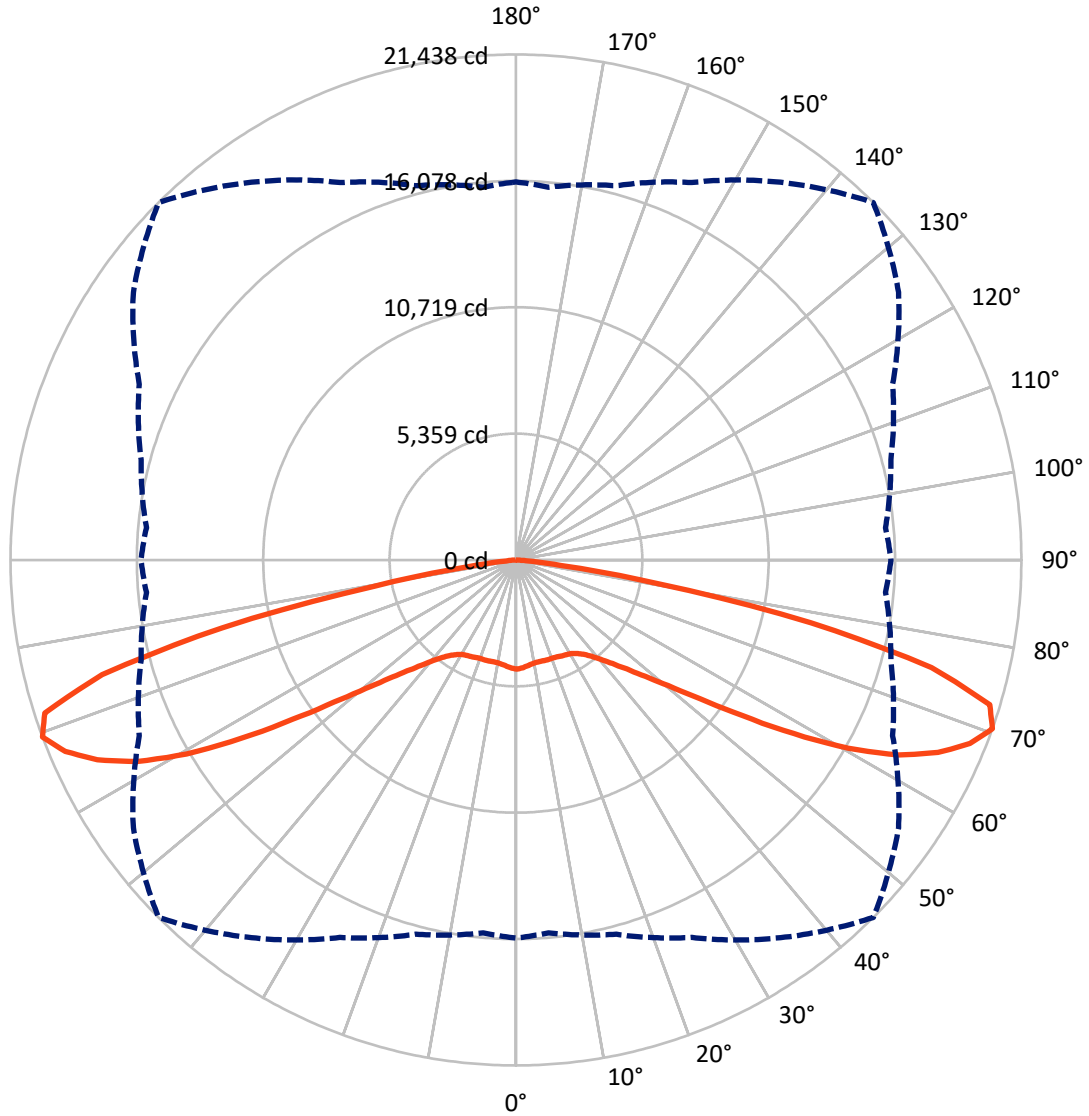
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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
House Side	Lumens	25381.0	0.0	25381.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25381.0	0.0	25381.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	50762.0	0.0	50762.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.7	0.8
10°-20°	1264.8	2.5
20°-30°	2104.8	4.1
30°-40°	3183.1	6.3
40°-50°	5289.5	10.4
50°-60°	9981.1	19.7
60°-70°	16853.4	33.2
70°-80°	11074.5	21.8
80°-90°	580.2	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°	50762.0	100.0
0°-180°	50762.0	100.0



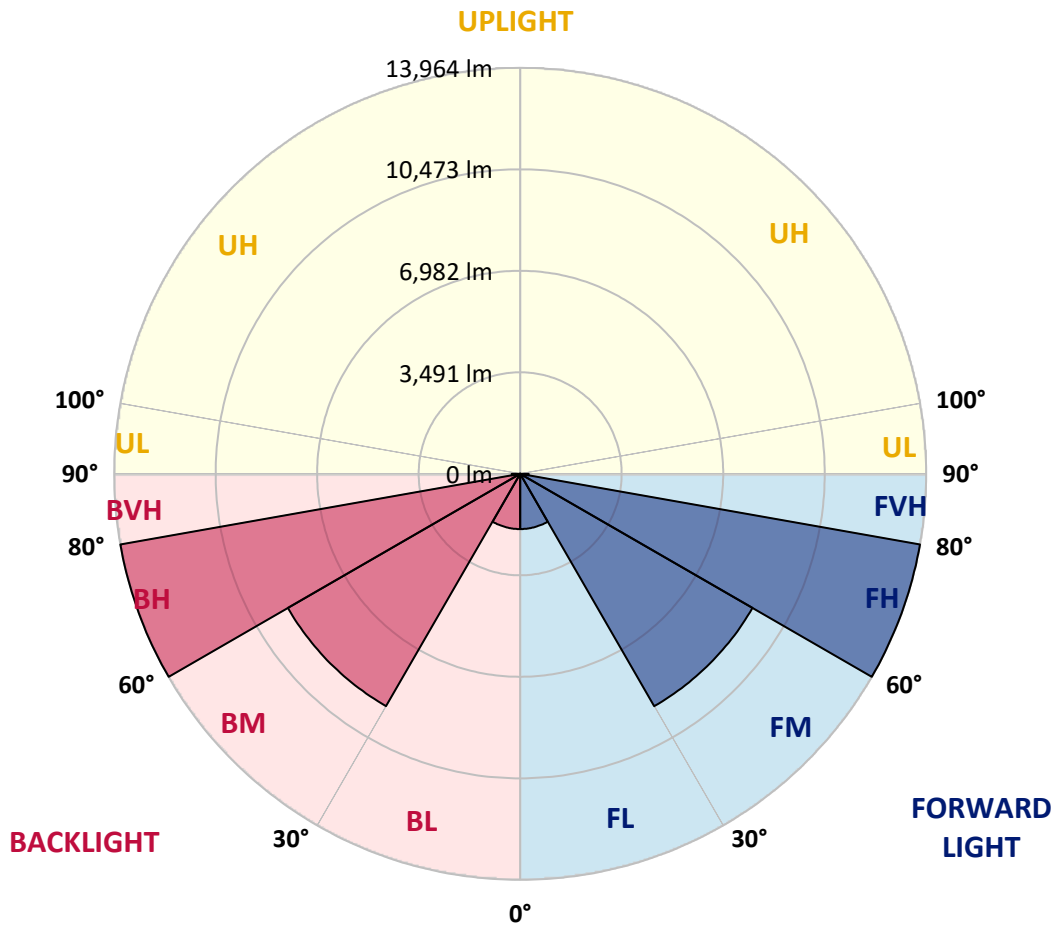
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1900.1	3.7			
FM (30°-60°)	9226.8	18.2			
FH (60°-80°)	13963.9	27.5			G5
FVH (80°-90°)	290.1	0.6			G3/500
BL (0°-30°)	1900.1	3.7	B3/2500		
BM (30°-60°)	9226.8	18.2	B5		
BH (60°-80°)	13963.9	27.5	B5		G5
BVH (80°-90°)	290.1	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°	4630.5	4630.5	4630.5	4630.5	4630.5	4630.5	4630.5	4630.5	4630.5	4630.5	4630.5
2.5°	4601.5	4614.7	4609.4	4598.9	4598.9	4590.9	4598.9	4604.1	4612.0	4617.3	4614.7
5°	4540.8	4551.4	4548.7	4540.8	4543.4	4535.5	4540.8	4548.7	4554.0	4556.6	4556.6
7.5°	4488.0	4498.6	4493.3	4480.1	4480.1	4472.2	4474.8	4482.8	4490.7	4493.3	4493.3
10°	4474.8	4485.4	4469.6	4448.5	4440.5	4430.0	4432.6	4440.5	4456.4	4464.3	4464.3
12.5°	4480.1	4488.0	4472.2	4440.5	4432.6	4422.1	4422.1	4430.0	4451.1	4461.7	4464.3
15°	4496.0	4503.9	4480.1	4445.8	4437.9	4430.0	4427.4	4437.9	4461.7	4480.1	4482.8
17.5°	4525.0	4532.9	4496.0	4448.5	4437.9	4440.5	4437.9	4445.8	4482.8	4517.1	4517.1
20°	4551.4	4556.6	4506.5	4448.5	4437.9	4440.5	4437.9	4453.7	4501.2	4548.7	4551.4
22.5°	4559.3	4564.6	4517.1	4466.9	4459.0	4461.7	4459.0	4474.8	4519.7	4567.2	4567.2
25°	4561.9	4569.8	4532.9	4493.3	4506.5	4511.8	4506.5	4509.1	4543.4	4585.7	4583.0
27.5°	4601.5	4612.0	4577.7	4543.4	4551.4	4548.7	4556.6	4564.6	4590.9	4633.2	4622.6
30°	4683.3	4691.2	4662.2	4627.9	4622.6	4604.1	4627.9	4654.3	4683.3	4720.2	4712.3
32.5°	4817.8	4833.7	4796.7	4759.8	4736.1	4725.5	4744.0	4788.8	4828.4	4868.0	4852.1
35°	5042.1	5052.7	5018.4	4949.8	4907.6	4907.6	4923.4	4981.4	5044.8	5094.9	5076.4
37.5°	5358.7	5371.9	5311.2	5229.4	5166.1	5166.1	5187.2	5247.9	5342.9	5414.1	5387.8
40°	5744.0	5762.4	5685.9	5601.5	5540.8	5530.2	5556.6	5625.2	5714.9	5804.6	5775.6
42.5°	6208.3	6229.4	6129.2	6055.3	6007.8	6007.8	6021.0	6084.3	6166.1	6276.9	6269.0
45°	6802.0	6838.9	6701.7	6627.8	6583.0	6593.5	6601.5	6656.9	6730.7	6857.4	6852.1
47.5°	7509.1	7546.0	7400.9	7324.4	7316.5	7366.6	7334.9	7374.5	7414.1	7559.2	7517.0
50°	8311.2	8374.5	8274.2	8269.0	8284.8	8377.1	8303.3	8324.4	8279.5	8371.9	8316.5
52.5°	9292.7	9385.0	9366.6	9398.2	9575.0	9765.0	9596.1	9522.2	9353.4	9382.4	9284.8
55°	10482.6	10622.5	10648.9	10838.8	11239.9	11627.7	11268.9	10970.8	10611.9	10546.0	10443.1
57.5°	11836.2	11947.0	12073.6	12461.5	13210.8	13899.5	13210.8	12551.2	11986.6	11852.0	11757.0
60°	13292.6	13429.8	13551.2	14123.7	15237.2	16205.5	15216.1	14168.6	13421.9	13239.8	13081.5
62.5°	14857.2	15034.0	15118.4	15754.3	17052.4	18208.1	17070.9	15801.8	14973.3	14778.1	14619.8
65°	16358.5	16503.6	16598.6	17276.7	18516.8	19675.1	18601.2	17350.6	16498.4	16242.4	16115.8
67.5°	17057.7	17136.9	17369.1	18136.8	19445.5	20767.4	19667.2	18218.6	17266.2	16817.6	16822.9
70°	16034.0	15873.0	16432.4	17661.9	19556.3	21437.6	19809.6	17625.0	16458.8	15730.6	15904.7
72.5°	12390.3	12113.2	13084.2	15187.0	18289.9	21010.1	18416.5	15305.8	13688.4	12210.8	12577.6
75°	6741.3	6427.3	7767.7	10427.2	14585.5	18210.7	14920.6	10725.4	8648.9	6691.2	7126.5
77.5°	1902.3	1783.6	2865.4	5044.8	8772.9	12786.0	9110.6	5155.6	3398.4	2015.8	2240.1
80°	583.1	564.6	765.2	1519.8	3725.5	6123.9	3580.4	1538.2	973.6	614.8	649.1
82.5°	345.6	316.6	379.9	554.1	949.8	1923.4	923.5	577.8	464.4	311.3	337.7
85°	197.9	184.7	224.3	269.1	319.3	409.0	266.5	274.4	248.0	166.2	174.1
87.5°	81.8	73.9	87.1	84.4	73.9	95.0	71.2	84.4	100.3	66.0	60.7
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)