

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: P885442

Luminaire Tested: **NAV-SB6D-727-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885442
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-727-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 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: 56619 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

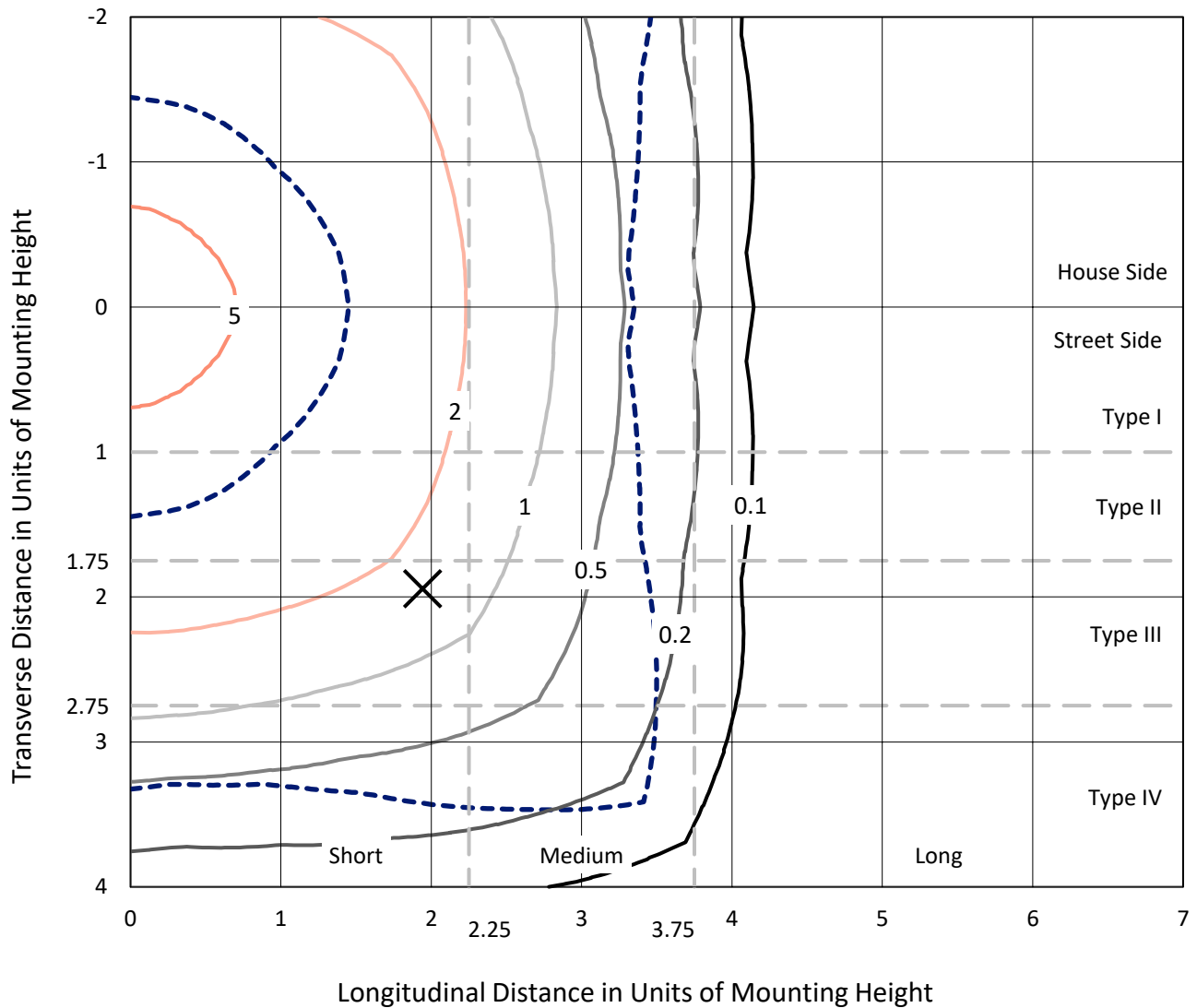
Input Watts (W): 440.1
Input Voltage (V): 120.0
Input Current (Ain): 3.68
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

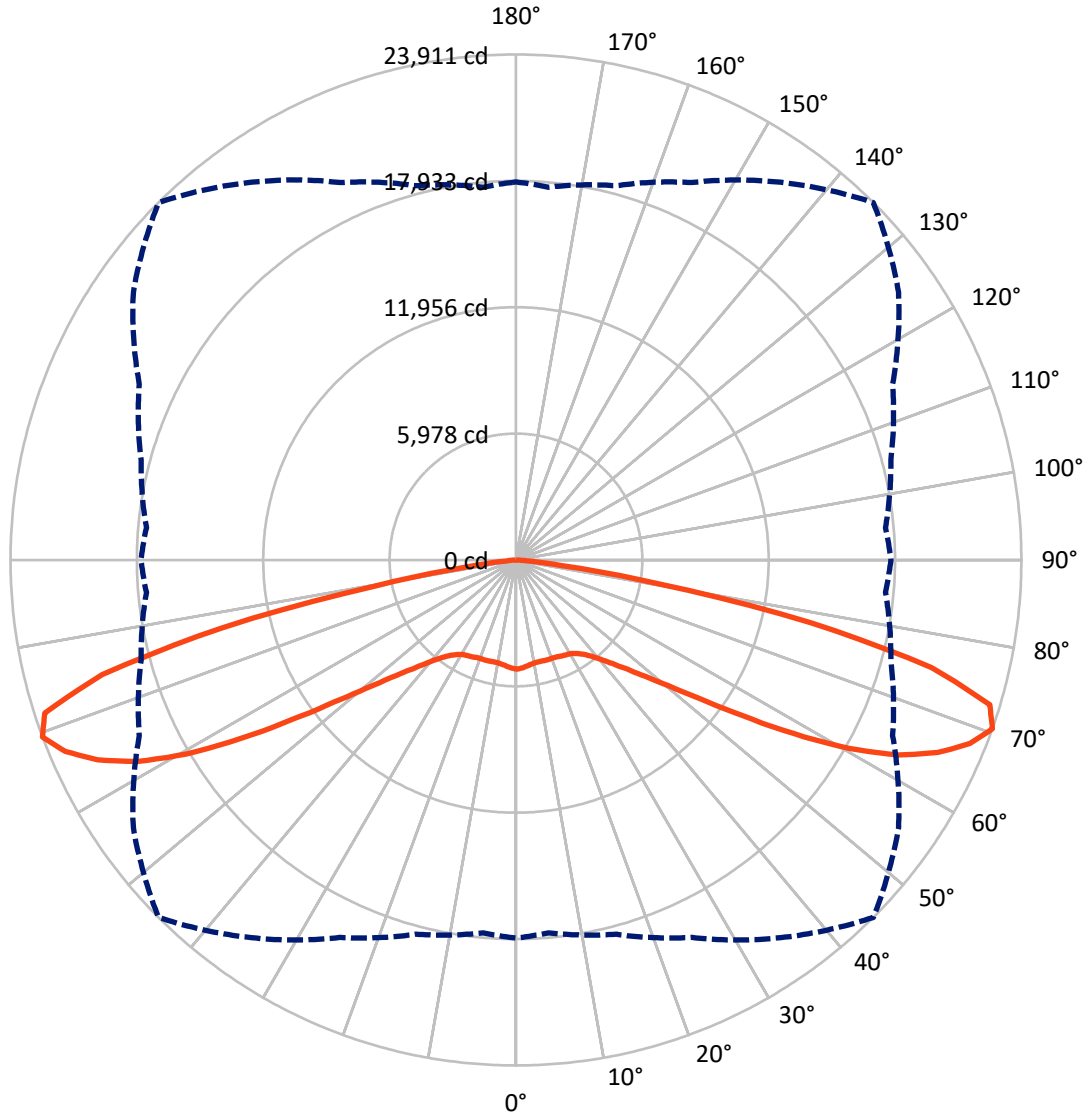
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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	28309.5	0.0	28309.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	28309.5	0.0	28309.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	56619.0	0.0	56619.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.4	0.8
10°-20°	1410.7	2.5
20°-30°	2347.6	4.1
30°-40°	3550.3	6.3
40°-50°	5899.8	10.4
50°-60°	11132.7	19.7
60°-70°	18798.0	33.2
70°-80°	12352.2	21.8
80°-90°	647.1	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°	56619.0	100.0
0°-180°	56619.0	100.0

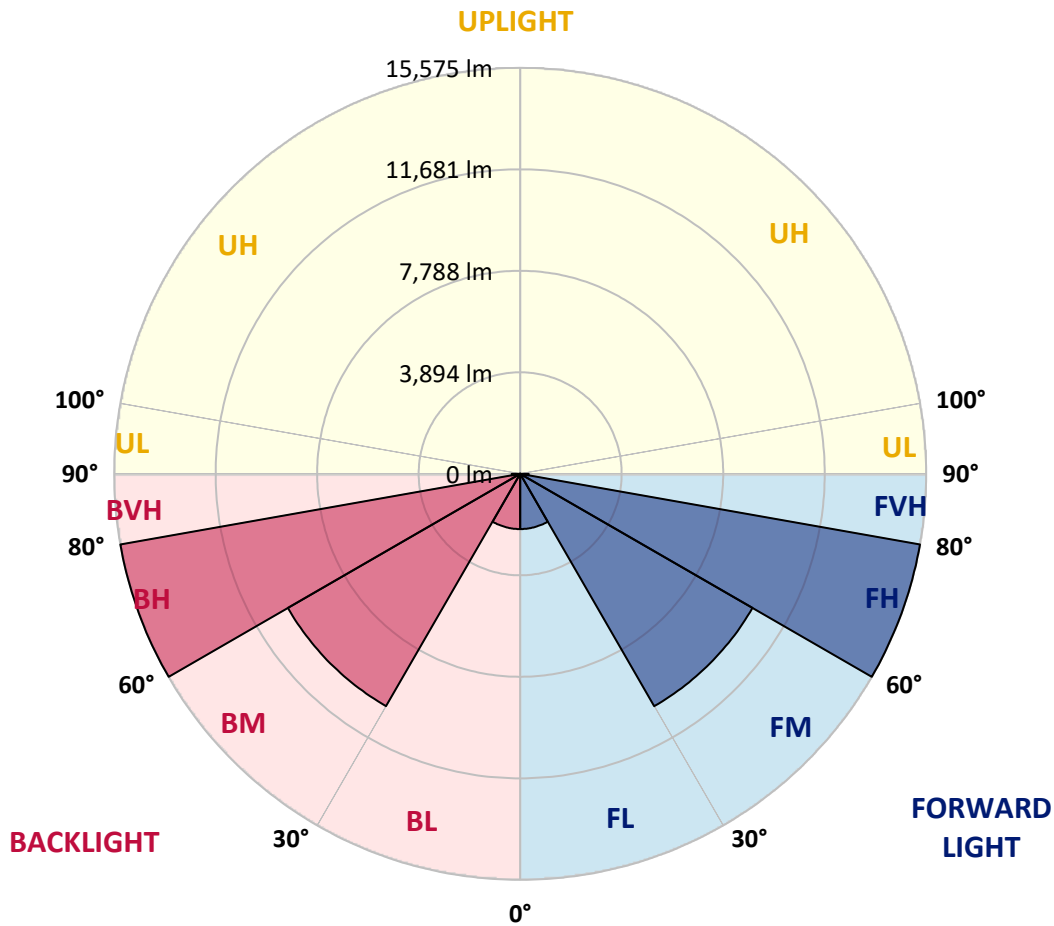


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2119.4	3.7			
FM (30°-60°)	10291.4	18.2			
FH (60°-80°)	15575.1	27.5			G5
FVH (80°-90°)	323.6	0.6			G3/500
BL (0°-30°)	2119.4	3.7	B3/2500		
BM (30°-60°)	10291.4	18.2	B5		
BH (60°-80°)	15575.1	27.5	B5		G5
BVH (80°-90°)	323.6	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°	5164.8	5164.8	5164.8	5164.8	5164.8	5164.8	5164.8	5164.8	5164.8	5164.8	5164.8
2.5°	5132.4	5147.1	5141.2	5129.5	5129.5	5120.6	5129.5	5135.4	5144.2	5150.1	5147.1
5°	5064.7	5076.5	5073.6	5064.7	5067.7	5058.8	5064.7	5073.6	5079.4	5082.4	5082.4
7.5°	5005.9	5017.6	5011.8	4997.0	4997.0	4988.2	4991.2	5000.0	5008.8	5011.8	5011.8
10°	4991.2	5002.9	4985.3	4961.7	4952.9	4941.1	4944.1	4952.9	4970.6	4979.4	4979.4
12.5°	4997.0	5005.9	4988.2	4952.9	4944.1	4932.3	4932.3	4941.1	4964.7	4976.4	4979.4
15°	5014.7	5023.5	4997.0	4958.8	4950.0	4941.1	4938.2	4950.0	4976.4	4997.0	5000.0
17.5°	5047.1	5055.9	5014.7	4961.7	4950.0	4952.9	4950.0	4958.8	5000.0	5038.2	5038.2
20°	5076.5	5082.4	5026.5	4961.7	4950.0	4952.9	4950.0	4967.6	5020.6	5073.6	5076.5
22.5°	5085.3	5091.2	5038.2	4982.3	4973.5	4976.4	4973.5	4991.2	5041.2	5094.2	5094.2
25°	5088.3	5097.1	5055.9	5011.8	5026.5	5032.4	5026.5	5029.4	5067.7	5114.8	5111.8
27.5°	5132.4	5144.2	5105.9	5067.7	5076.5	5073.6	5082.4	5091.2	5120.6	5167.7	5156.0
30°	5223.7	5232.5	5200.1	5161.8	5156.0	5135.4	5161.8	5191.3	5223.7	5264.9	5256.0
32.5°	5373.7	5391.4	5350.2	5309.0	5282.5	5270.7	5291.3	5341.4	5385.5	5429.7	5412.0
35°	5623.9	5635.7	5597.4	5520.9	5473.8	5473.8	5491.5	5556.2	5626.8	5682.7	5662.1
37.5°	5977.0	5991.7	5924.1	5832.8	5762.2	5762.2	5785.7	5853.4	5959.4	6038.8	6009.4
40°	6406.7	6427.3	6342.0	6247.8	6180.1	6168.3	6197.8	6274.3	6374.3	6474.4	6442.0
42.5°	6924.6	6948.2	6836.4	6754.0	6701.0	6701.0	6715.7	6786.3	6877.6	7001.2	6992.3
45°	7586.8	7628.0	7475.0	7392.6	7342.5	7354.3	7363.1	7424.9	7507.3	7648.6	7642.7
47.5°	8375.5	8416.7	8254.8	8169.5	8160.7	8216.6	8181.3	8225.4	8269.6	8431.4	8384.3
50°	9270.1	9340.8	9228.9	9223.1	9240.7	9343.7	9261.3	9284.9	9234.8	9337.8	9276.0
52.5°	10364.9	10467.9	10447.3	10482.6	10679.8	10891.7	10703.3	10620.9	10432.6	10465.0	10356.1
55°	11692.1	11848.1	11877.6	12089.4	12536.8	12969.4	12569.1	12236.6	11836.4	11762.8	11648.0
57.5°	13201.9	13325.5	13466.7	13899.3	14735.1	15503.2	14735.1	13999.4	13369.6	13219.5	13113.6
60°	14826.3	14979.4	15114.7	15753.4	16995.3	18075.3	16971.7	15803.4	14970.5	14767.5	14590.9
62.5°	16571.5	16768.7	16862.8	17572.1	19020.0	20309.0	19040.6	17625.0	16701.0	16483.2	16306.6
65°	18246.0	18407.9	18513.8	19270.1	20653.3	21945.2	20747.5	19352.5	18402.0	18116.5	17975.2
67.5°	19025.9	19114.1	19373.1	20229.5	21689.2	23163.6	21936.4	20320.7	19258.3	18758.1	18763.9
70°	17884.0	17704.5	18328.4	19699.8	21812.8	23911.1	22095.3	19658.6	18357.8	17545.6	17739.8
72.5°	13819.9	13510.9	14593.9	16939.3	20400.2	23434.3	20541.5	17071.8	15267.8	13619.7	14028.8
75°	7519.1	7168.9	8663.9	11630.3	16268.4	20311.9	16642.1	11962.9	9646.8	7463.2	7948.8
77.5°	2121.8	1989.4	3196.0	5626.8	9785.1	14261.3	10161.8	5750.4	3790.5	2248.4	2498.5
80°	650.4	629.8	853.4	1695.1	4155.4	6830.5	3993.5	1715.7	1085.9	685.7	724.0
82.5°	385.5	353.1	423.8	618.0	1059.4	2145.4	1030.0	644.5	518.0	347.3	376.7
85°	220.7	206.0	250.1	300.2	356.1	456.1	297.2	306.1	276.6	185.4	194.2
87.5°	91.2	82.4	97.1	94.2	82.4	105.9	79.5	94.2	111.8	73.6	67.7
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)