

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: P885292

Luminaire Tested: **NAV-SB6C-735-U-5WQ**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885292  
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-SB6C-735-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

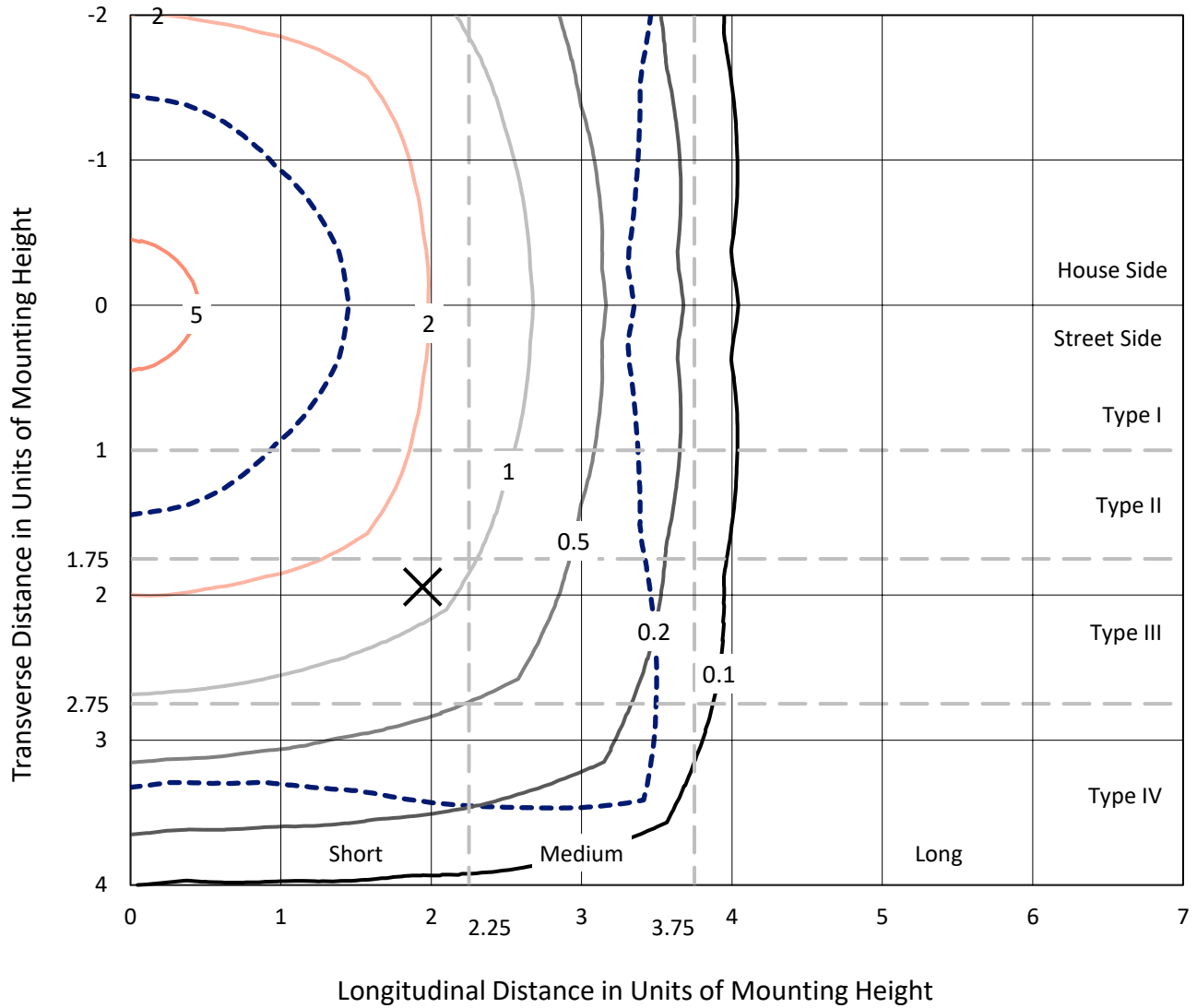
Lumens per Lamp: N/A  
Luminaire Lumens: 45979 lumens  
Efficiency: N/A  
Efficacy: 152.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 300.9  
Input Voltage (V): 120.0  
Input Current (Ain): 2.518  
Voltage Rise (V): NR  
Power Factor: 0.997  
Total Harmonic Distortion (THDi): 6.297  
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

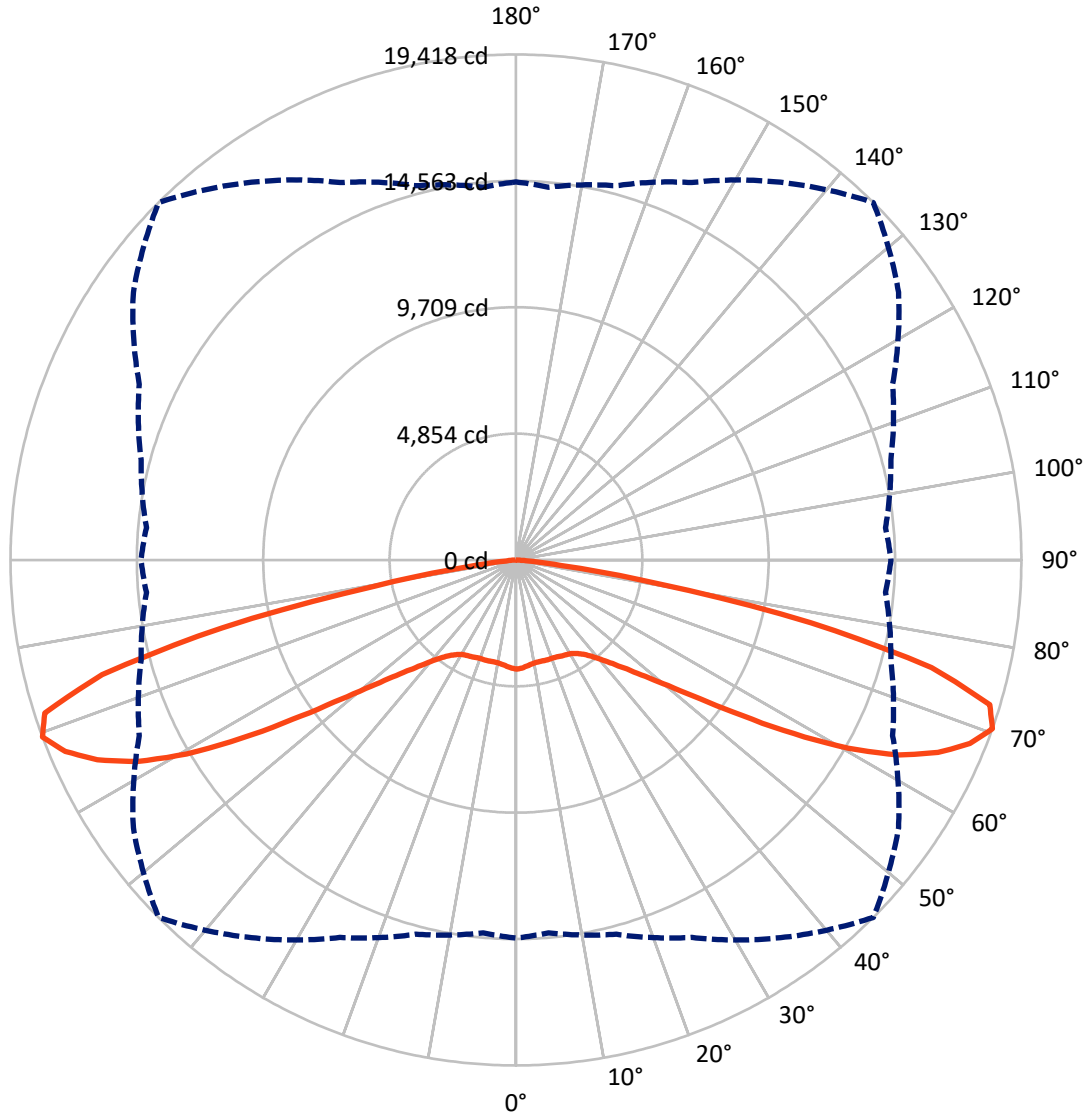
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	22989.5	0.0	22989.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	22989.5	0.0	22989.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	45979.0	0.0	45979.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	390.2	0.8
10°-20°	1145.6	2.5
20°-30°	1906.5	4.1
30°-40°	2883.1	6.3
40°-50°	4791.1	10.4
50°-60°	9040.6	19.7
60°-70°	15265.4	33.2
70°-80°	10031.0	21.8
80°-90°	525.5	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°	45979.0	100.0
0°-180°	45979.0	100.0

**Coefficient of Utilization**

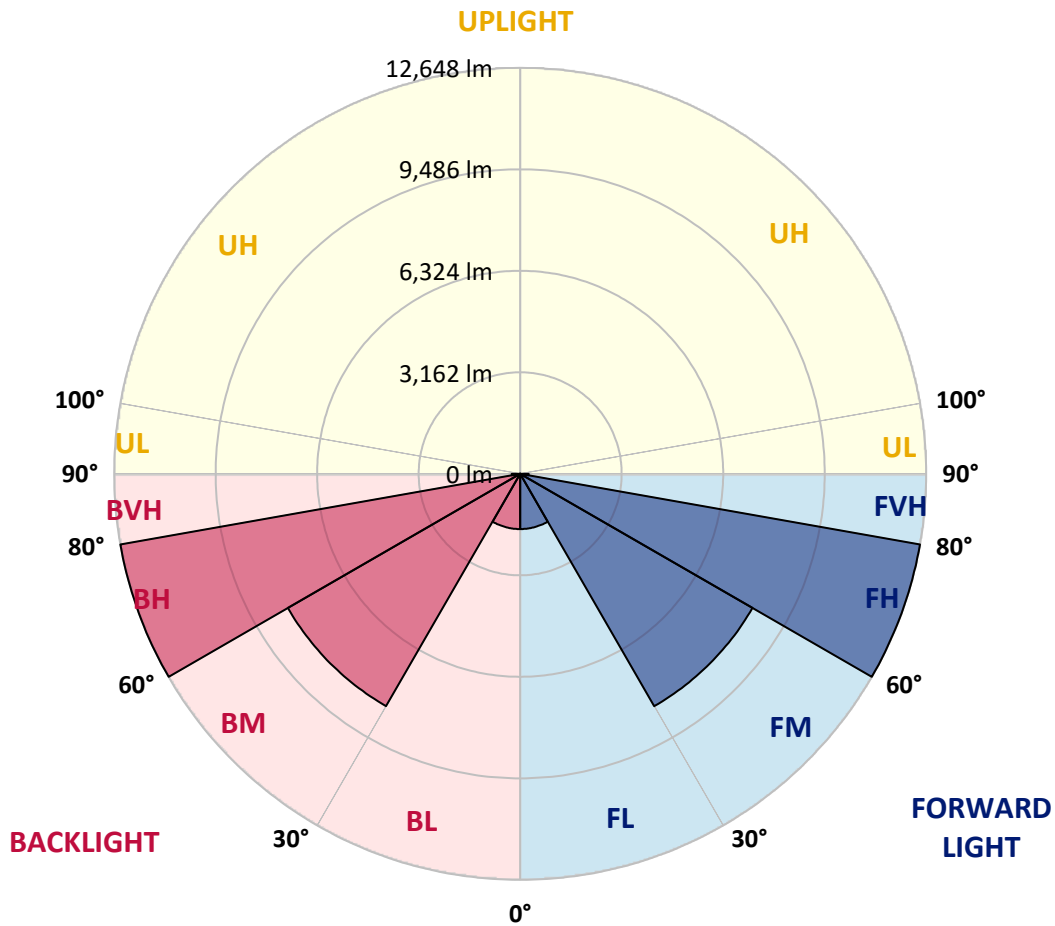


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1721.1	3.7			
FM (30°-60°)	8357.4	18.2			
FH (60°-80°)	12648.2	27.5			G5
FVH (80°-90°)	262.8	0.6			G3/500
BL (0°-30°)	1721.1	3.7	B3/2500		
BM (30°-60°)	8357.4	18.2	B4/8500		
BH (60°-80°)	12648.2	27.5	B5		G5
BVH (80°-90°)	262.8	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°	4194.2	4194.2	4194.2	4194.2	4194.2	4194.2	4194.2	4194.2	4194.2	4194.2	4194.2
2.5°	4167.9	4179.9	4175.1	4165.5	4165.5	4158.4	4165.5	4170.3	4177.5	4182.3	4179.9
5°	4113.0	4122.5	4120.1	4113.0	4115.3	4108.2	4113.0	4120.1	4124.9	4127.3	4127.3
7.5°	4065.2	4074.7	4069.9	4058.0	4058.0	4050.8	4053.2	4060.4	4067.5	4069.9	4069.9
10°	4053.2	4062.8	4048.4	4029.3	4022.1	4012.6	4015.0	4022.1	4036.5	4043.6	4043.6
12.5°	4058.0	4065.2	4050.8	4022.1	4015.0	4005.4	4005.4	4012.6	4031.7	4041.3	4043.6
15°	4072.3	4079.5	4058.0	4026.9	4019.8	4012.6	4010.2	4019.8	4041.3	4058.0	4060.4
17.5°	4098.6	4105.8	4072.3	4029.3	4019.8	4022.1	4019.8	4026.9	4060.4	4091.4	4091.4
20°	4122.5	4127.3	4081.9	4029.3	4019.8	4022.1	4019.8	4034.1	4077.1	4120.1	4122.5
22.5°	4129.7	4134.5	4091.4	4046.0	4038.9	4041.3	4038.9	4053.2	4093.8	4136.9	4136.9
25°	4132.1	4139.2	4105.8	4069.9	4081.9	4086.7	4081.9	4084.3	4115.3	4153.6	4151.2
27.5°	4167.9	4177.5	4146.4	4115.3	4122.5	4120.1	4127.3	4134.5	4158.4	4196.6	4187.0
30°	4242.0	4249.2	4222.9	4191.8	4187.0	4170.3	4191.8	4215.7	4242.0	4275.5	4268.3
32.5°	4363.9	4378.2	4344.8	4311.3	4289.8	4280.2	4297.0	4337.6	4373.5	4409.3	4395.0
35°	4567.0	4576.6	4545.5	4483.4	4445.1	4445.1	4459.5	4512.1	4569.4	4614.8	4598.1
37.5°	4853.8	4865.8	4810.8	4736.7	4679.4	4679.4	4698.5	4753.4	4839.5	4904.0	4880.1
40°	5202.7	5219.5	5150.2	5073.7	5018.7	5009.2	5033.1	5095.2	5176.4	5257.7	5231.4
42.5°	5623.3	5642.5	5551.7	5484.7	5441.7	5441.7	5453.7	5511.0	5585.1	5685.5	5678.3
45°	6161.1	6194.5	6070.3	6003.3	5962.7	5972.3	5979.4	6029.6	6096.5	6211.3	6206.5
47.5°	6801.6	6835.0	6703.6	6634.3	6627.1	6672.5	6643.8	6679.7	6715.5	6847.0	6808.7
50°	7528.1	7585.4	7494.6	7489.8	7504.2	7587.8	7520.9	7540.0	7499.4	7583.0	7532.8
52.5°	8417.1	8500.7	8484.0	8512.7	8672.8	8844.9	8691.9	8625.0	8472.1	8498.4	8409.9
55°	9494.9	9621.6	9645.5	9817.6	10180.8	10532.1	10207.1	9937.1	9612.0	9552.3	9459.1
57.5°	10720.9	10821.3	10936.0	11287.3	11966.0	12589.8	11966.0	11368.6	10857.2	10735.3	10649.2
60°	12040.1	12164.4	12274.3	12792.9	13801.5	14678.5	13782.3	12833.6	12157.2	11992.3	11848.9
62.5°	13457.3	13617.4	13693.9	14269.9	15445.7	16492.4	15462.4	14312.9	13562.5	13385.6	13242.2
65°	14817.2	14948.6	15034.6	15648.8	16772.1	17821.2	16848.5	15715.7	14943.8	14712.0	14597.3
67.5°	15450.5	15522.2	15732.5	16427.9	17613.3	18810.6	17814.0	16502.0	15639.3	15233.0	15237.8
70°	14523.2	14377.4	14884.1	15997.7	17713.7	19417.6	17943.1	15964.3	14908.0	14248.4	14406.1
72.5°	11222.8	10971.9	11851.3	13756.1	16566.5	19030.5	16681.2	13863.6	12398.6	11060.3	11392.5
75°	6106.1	5821.7	7035.8	9444.7	13211.2	16494.8	13514.7	9714.8	7834.0	6060.7	6455.0
77.5°	1723.1	1615.5	2595.4	4569.4	7946.3	11581.3	8252.2	4669.8	3078.1	1825.9	2029.0
80°	528.2	511.4	693.1	1376.6	3374.5	5546.9	3243.0	1393.3	881.9	556.8	587.9
82.5°	313.1	286.8	344.1	501.9	860.4	1742.2	836.5	523.4	420.6	282.0	305.9
85°	179.2	167.3	203.1	243.8	289.2	370.4	241.4	248.5	224.6	150.6	157.7
87.5°	74.1	66.9	78.9	76.5	66.9	86.0	64.5	76.5	90.8	59.7	55.0
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)