

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: P884832

Luminaire Tested: **NAV-SB5D-830-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884832
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-SB5D-830-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 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: 45702 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

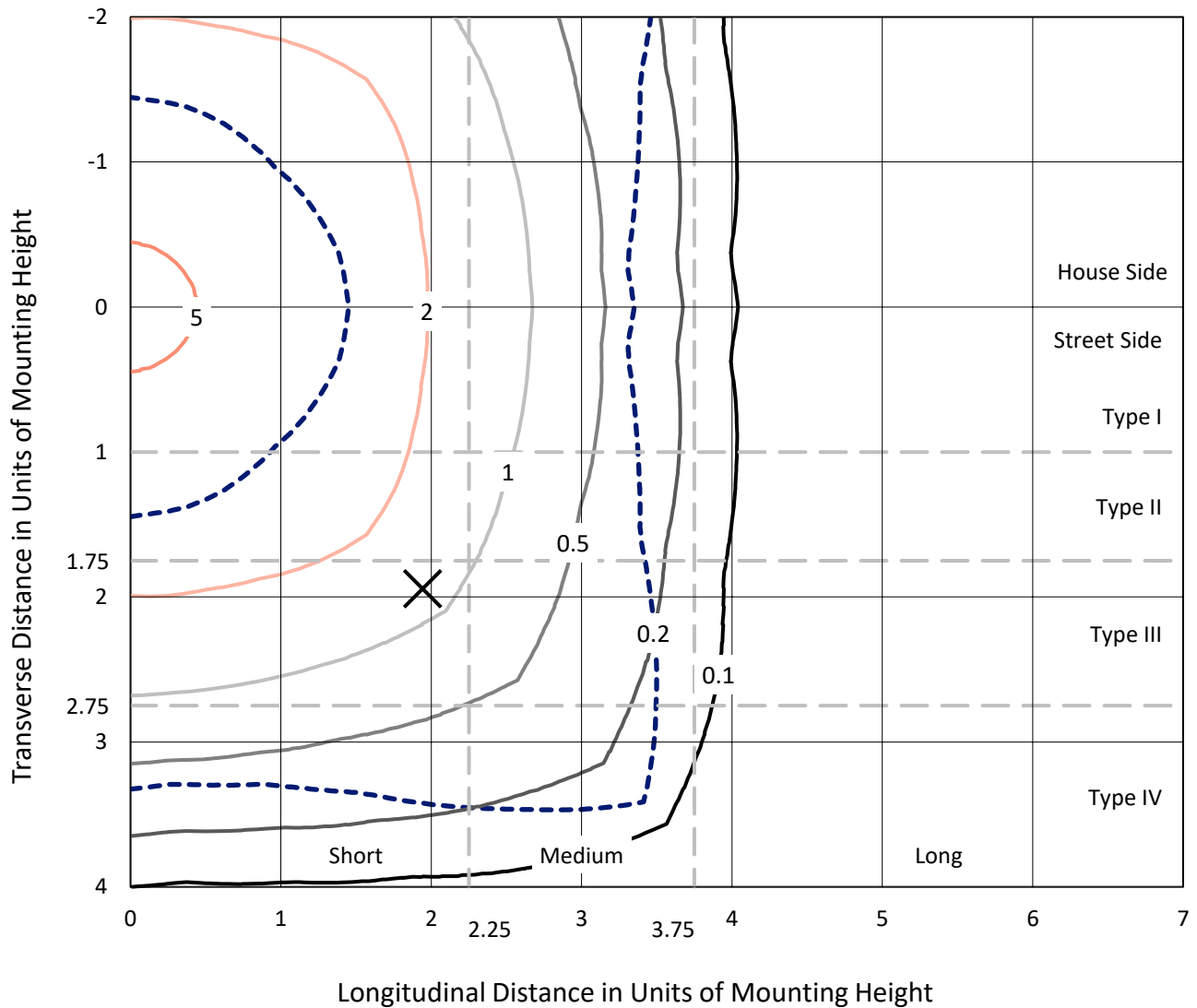
Input Watts (W): 364.9
Input Voltage (V): 120.0
Input Current (Ain): 3.094
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 3.28
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

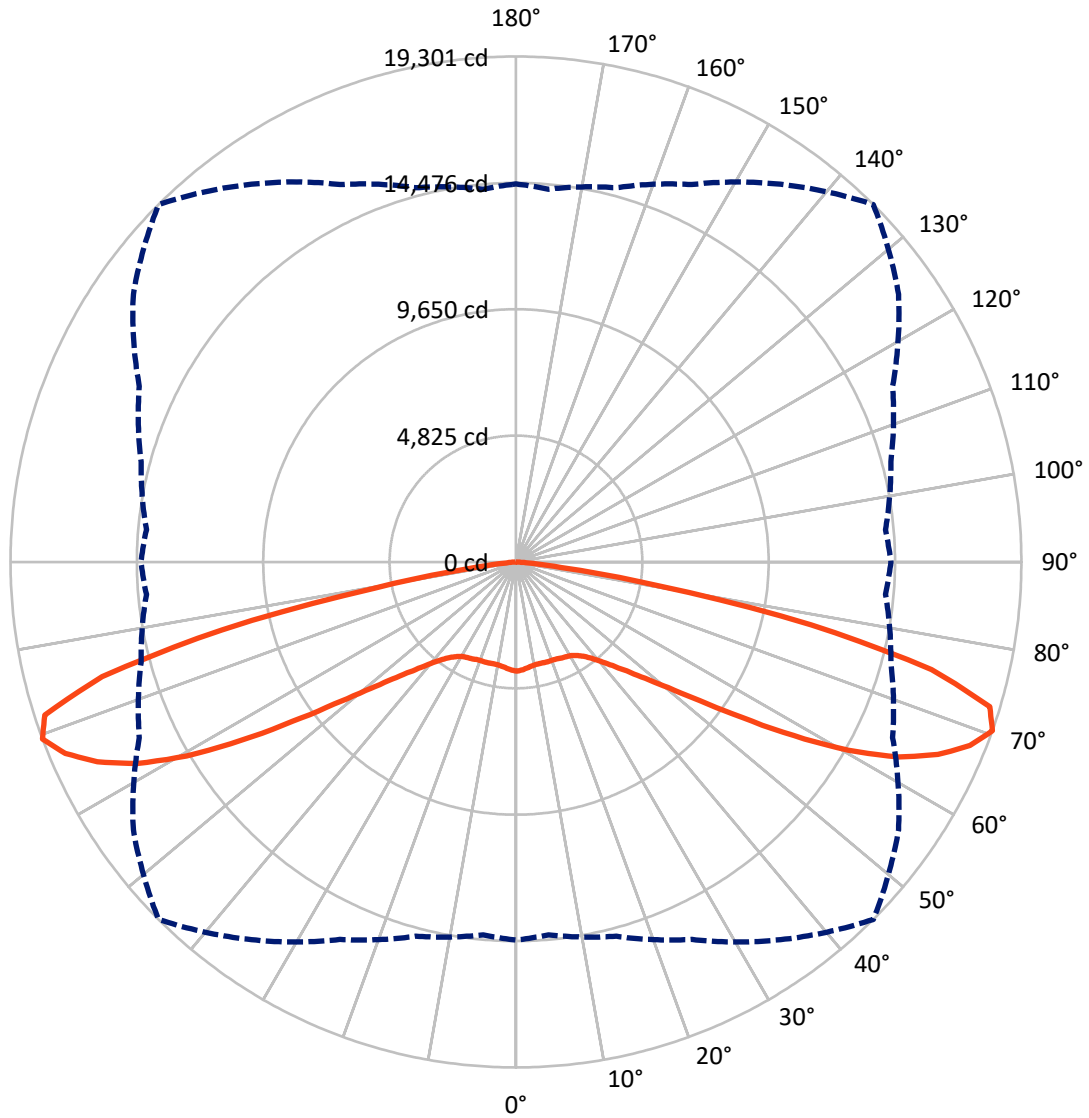
✕ Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	22851.0	0.0	22851.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22851.0	0.0	22851.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	45702.0	0.0	45702.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.8	0.8
10°-20°	1138.7	2.5
20°-30°	1895.0	4.1
30°-40°	2865.8	6.3
40°-50°	4762.2	10.4
50°-60°	8986.2	19.7
60°-70°	15173.5	33.2
70°-80°	9970.6	21.8
80°-90°	522.4	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°	45702.0	100.0
0°-180°	45702.0	100.0

Coefficient of Utilization



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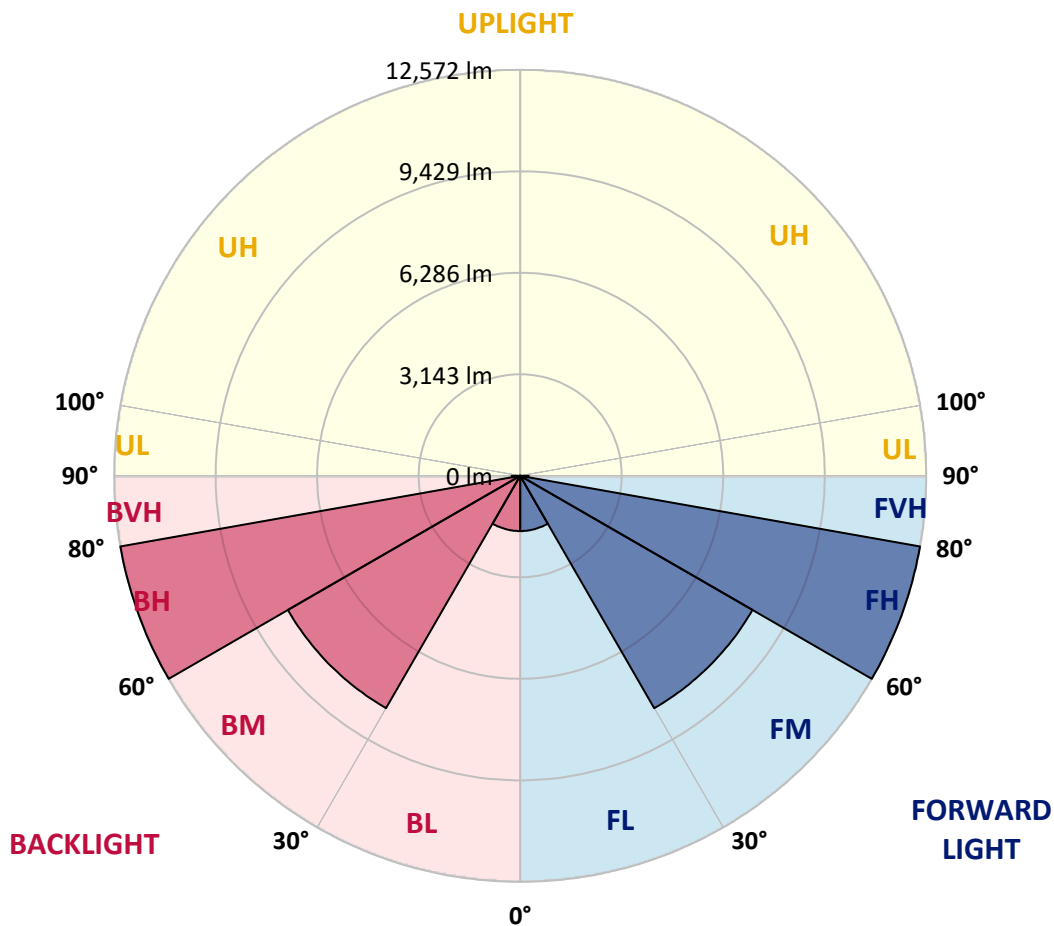
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1710.7	3.7			
FM (30°-60°)	8307.1	18.2			
FH (60°-80°)	12572.0	27.5			G5
FVH (80°-90°)	261.2	0.6			G3/500
BL (0°-30°)	1710.7	3.7	B3/2500		
BM (30°-60°)	8307.1	18.2	B4/8500		
BH (60°-80°)	12572.0	27.5	B5		G5
BVH (80°-90°)	261.2	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°	4168.9	4168.9	4168.9	4168.9	4168.9	4168.9	4168.9	4168.9	4168.9	4168.9	4168.9
2.5°	4142.8	4154.7	4149.9	4140.4	4140.4	4133.3	4140.4	4145.2	4152.3	4157.1	4154.7
5°	4088.2	4097.7	4095.3	4088.2	4090.6	4083.4	4088.2	4095.3	4100.1	4102.4	4102.4
7.5°	4040.7	4050.2	4045.4	4033.5	4033.5	4026.4	4028.8	4035.9	4043.0	4045.4	4045.4
10°	4028.8	4038.3	4024.0	4005.0	3997.9	3988.4	3990.8	3997.9	4012.2	4019.3	4019.3
12.5°	4033.5	4040.7	4026.4	3997.9	3990.8	3981.3	3981.3	3988.4	4007.4	4016.9	4019.3
15°	4047.8	4054.9	4033.5	4002.7	3995.5	3988.4	3986.0	3995.5	4016.9	4033.5	4035.9
17.5°	4073.9	4081.1	4047.8	4005.0	3995.5	3997.9	3995.5	4002.7	4035.9	4066.8	4066.8
20°	4097.7	4102.4	4057.3	4005.0	3995.5	3997.9	3995.5	4009.8	4052.5	4095.3	4097.7
22.5°	4104.8	4109.6	4066.8	4021.7	4014.5	4016.9	4014.5	4028.8	4069.2	4111.9	4111.9
25°	4107.2	4114.3	4081.1	4045.4	4057.3	4062.0	4057.3	4059.7	4090.6	4128.6	4126.2
27.5°	4142.8	4152.3	4121.4	4090.6	4097.7	4095.3	4102.4	4109.6	4133.3	4171.3	4161.8
30°	4216.5	4223.6	4197.4	4166.6	4161.8	4145.2	4166.6	4190.3	4216.5	4249.7	4242.6
32.5°	4337.6	4351.9	4318.6	4285.3	4264.0	4254.5	4271.1	4311.5	4347.1	4382.7	4368.5
35°	4539.5	4549.0	4518.1	4456.4	4418.4	4418.4	4432.6	4484.9	4541.9	4587.0	4570.4
37.5°	4824.6	4836.4	4781.8	4708.2	4651.2	4651.2	4670.2	4724.8	4810.3	4874.5	4850.7
40°	5171.4	5188.0	5119.1	5043.1	4988.5	4979.0	5002.7	5064.5	5145.3	5226.0	5199.9
42.5°	5589.5	5608.5	5518.2	5451.7	5408.9	5408.9	5420.8	5477.8	5551.5	5651.2	5644.1
45°	6124.0	6157.2	6033.7	5967.2	5926.8	5936.3	5943.4	5993.3	6059.8	6173.8	6169.1
47.5°	6760.6	6793.8	6663.2	6594.3	6587.2	6632.3	6603.8	6639.4	6675.1	6805.7	6767.7
50°	7482.7	7539.7	7449.5	7444.7	7459.0	7542.1	7475.6	7494.6	7454.2	7537.4	7487.5
52.5°	8366.4	8449.5	8432.9	8461.4	8620.6	8791.6	8639.6	8573.1	8421.0	8447.2	8359.3
55°	9437.7	9563.6	9587.4	9758.4	10119.5	10468.7	10145.6	9877.2	9554.1	9494.7	9402.1
57.5°	10656.3	10756.1	10870.1	11219.3	11894.0	12514.0	11894.0	11300.1	10791.7	10670.6	10585.1
60°	11967.6	12091.1	12200.4	12715.9	13718.3	14590.1	13699.3	12756.3	12084.0	11920.1	11777.6
62.5°	13376.2	13535.4	13611.4	14183.9	15352.6	16393.1	15369.3	14226.7	13480.8	13305.0	13162.5
65°	14727.9	14858.5	14944.1	15554.6	16671.0	17713.8	16747.0	15621.1	14853.8	14623.4	14509.3
67.5°	15357.4	15428.7	15637.7	16329.0	17507.2	18697.3	17706.7	16402.6	15545.0	15141.2	15146.0
70°	14435.7	14290.8	14794.4	15901.4	17607.0	19300.7	17835.0	15868.1	14818.2	14162.5	14319.3
72.5°	11155.2	10905.8	11779.9	13673.2	16466.7	18915.8	16580.8	13780.1	12323.9	10993.7	11323.8
75°	6069.3	5786.6	6993.4	9387.8	13131.6	16395.5	13433.3	9656.3	7786.8	6024.2	6416.1
77.5°	1712.7	1605.8	2579.8	4541.9	7898.4	11511.5	8202.5	4641.7	3059.6	1814.9	2016.8
80°	525.0	508.3	688.9	1368.3	3354.2	5513.5	3223.5	1384.9	876.5	553.5	584.4
82.5°	311.2	285.1	342.1	498.8	855.2	1731.7	831.4	520.2	418.1	280.3	304.1
85°	178.2	166.3	201.9	242.3	287.4	368.2	239.9	247.0	223.3	149.7	156.8
87.5°	73.6	66.5	78.4	76.0	66.5	85.5	64.1	76.0	90.3	59.4	54.6
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)