

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: P884602

Luminaire Tested: **NAV-SB5C-730-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884602
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-SB5C-730-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 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: 37839 lumens
Efficiency: N/A
Efficacy: 151.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

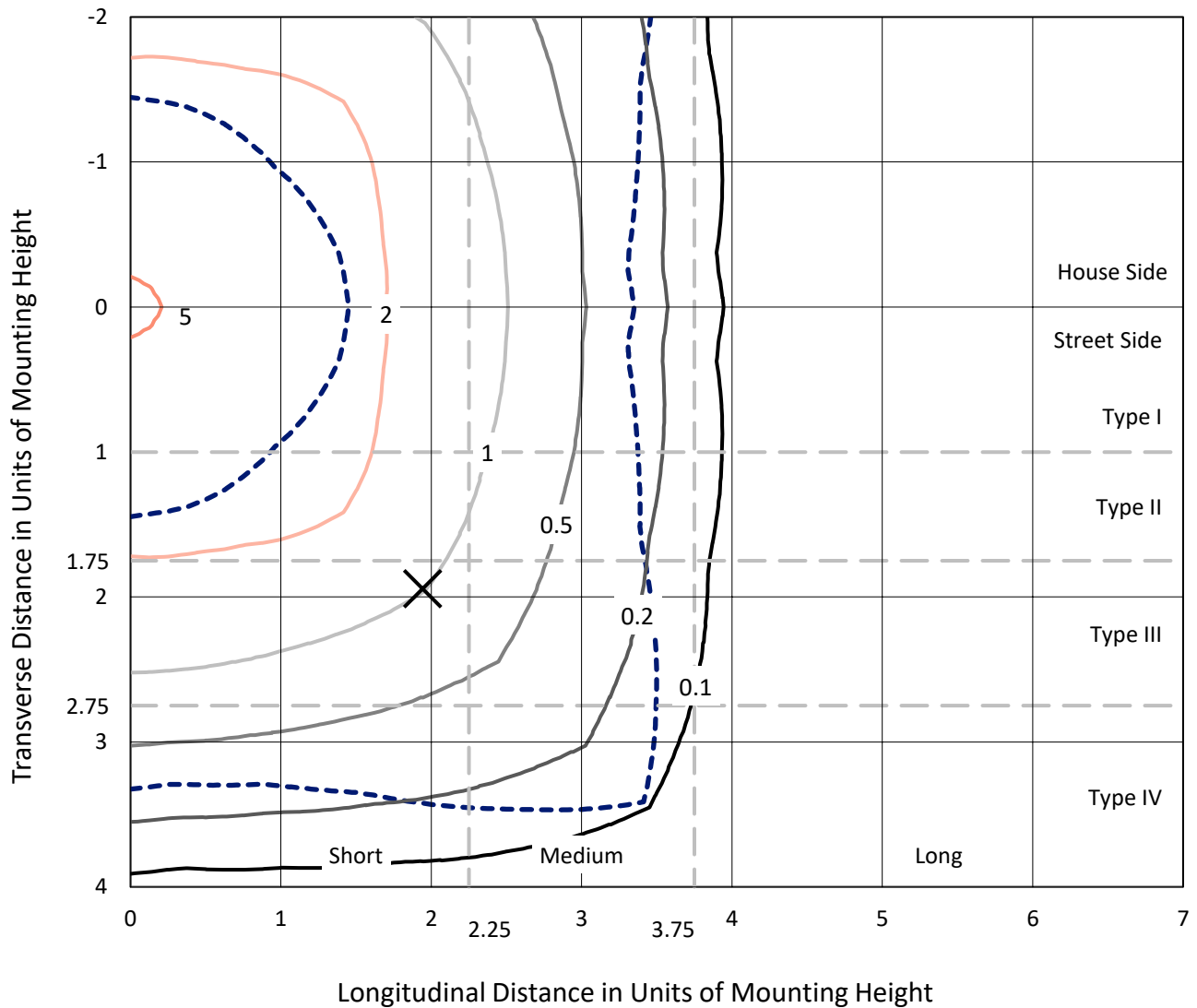
Input Watts (W): 249.5
Input Voltage (V): 120.0
Input Current (Ain): 2.116
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 7.885
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

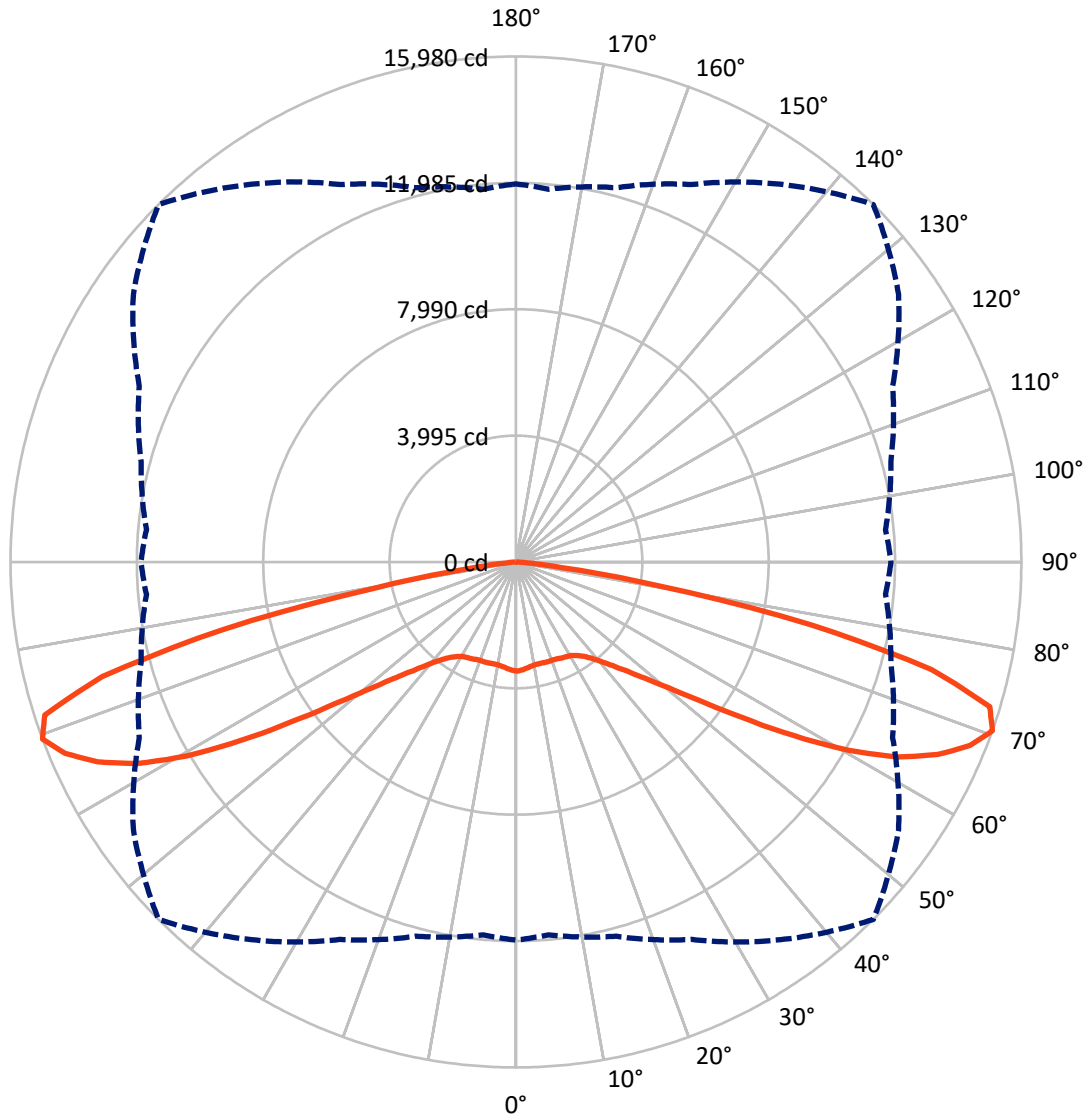
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	18919.5	0.0	18919.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18919.5	0.0	18919.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	37839.0	0.0	37839.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.1	0.8
10°-20°	942.8	2.5
20°-30°	1568.9	4.1
30°-40°	2372.7	6.3
40°-50°	3942.9	10.4
50°-60°	7440.1	19.7
60°-70°	12562.9	33.2
70°-80°	8255.1	21.8
80°-90°	432.5	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°	37839.0	100.0
0°-180°	37839.0	100.0

Coefficient of Utilization



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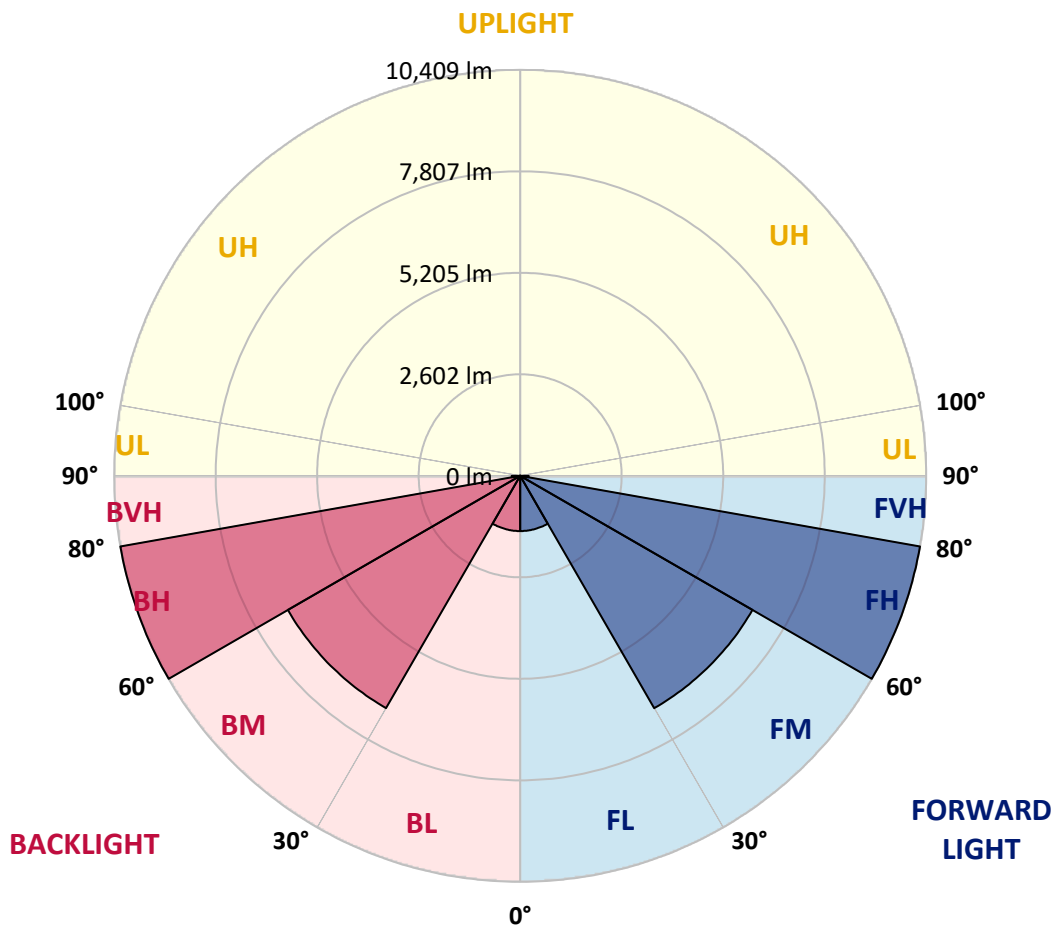
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1416.4	3.7			
FM (30°-60°)	6877.8	18.2			
FH (60°-80°)	10409.0	27.5			G4/12000
FVH (80°-90°)	216.2	0.6			G2/225
BL (0°-30°)	1416.4	3.7	B3/2500		
BM (30°-60°)	6877.8	18.2	B4/8500		
BH (60°-80°)	10409.0	27.5	B5		G4/12000
BVH (80°-90°)	216.2	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3451.7	3451.7	3451.7	3451.7	3451.7	3451.7	3451.7	3451.7	3451.7	3451.7	3451.7
2.5°	3430.0	3439.9	3435.9	3428.1	3428.1	3422.2	3428.1	3432.0	3437.9	3441.8	3439.9
5°	3384.8	3392.7	3390.7	3384.8	3386.8	3380.9	3384.8	3390.7	3394.6	3396.6	3396.6
7.5°	3345.5	3353.3	3349.4	3339.6	3339.6	3333.7	3335.6	3341.5	3347.4	3349.4	3349.4
10°	3335.6	3343.5	3331.7	3316.0	3310.1	3302.2	3304.2	3310.1	3321.9	3327.8	3327.8
12.5°	3339.6	3345.5	3333.7	3310.1	3304.2	3296.3	3296.3	3302.2	3317.9	3325.8	3327.8
15°	3351.4	3357.3	3339.6	3314.0	3308.1	3302.2	3300.2	3308.1	3325.8	3339.6	3341.5
17.5°	3373.0	3378.9	3351.4	3316.0	3308.1	3310.1	3308.1	3314.0	3341.5	3367.1	3367.1
20°	3392.7	3396.6	3359.2	3316.0	3308.1	3310.1	3308.1	3319.9	3355.3	3390.7	3392.7
22.5°	3398.6	3402.5	3367.1	3329.7	3323.8	3325.8	3323.8	3335.6	3369.1	3404.5	3404.5
25°	3400.5	3406.4	3378.9	3349.4	3359.2	3363.2	3359.2	3361.2	3386.8	3418.2	3416.3
27.5°	3430.0	3437.9	3412.3	3386.8	3392.7	3390.7	3396.6	3402.5	3422.2	3453.6	3445.8
30°	3491.0	3496.9	3475.3	3449.7	3445.8	3432.0	3449.7	3469.4	3491.0	3518.5	3512.6
32.5°	3591.3	3603.1	3575.6	3548.1	3530.3	3522.5	3536.2	3569.7	3599.2	3628.7	3616.9
35°	3758.5	3766.4	3740.8	3689.7	3658.2	3658.2	3670.0	3713.3	3760.5	3797.8	3784.1
37.5°	3994.5	4004.3	3959.1	3898.1	3850.9	3850.9	3866.7	3911.9	3982.7	4035.8	4016.1
40°	4281.7	4295.4	4238.4	4175.4	4130.2	4122.3	4142.0	4193.2	4260.0	4326.9	4305.3
42.5°	4627.8	4643.5	4568.8	4513.7	4478.3	4478.3	4488.2	4535.4	4596.3	4678.9	4673.0
45°	5070.3	5097.9	4995.6	4940.5	4907.1	4915.0	4920.9	4962.2	5017.2	5111.6	5107.7
47.5°	5597.4	5625.0	5516.8	5459.7	5453.8	5491.2	5467.6	5497.1	5526.6	5634.8	5603.3
50°	6195.3	6242.5	6167.8	6163.9	6175.7	6244.5	6189.4	6205.2	6171.7	6240.6	6199.3
52.5°	6927.0	6995.8	6982.0	7005.6	7137.4	7279.0	7153.1	7098.1	6972.2	6993.8	6921.1
55°	7814.0	7918.2	7937.9	8079.5	8378.4	8667.5	8400.1	8177.8	7910.3	7861.2	7784.5
57.5°	8822.9	8905.5	8999.9	9289.0	9847.6	10360.9	9847.6	9355.9	8935.0	8834.7	8763.9
60°	9908.6	10010.9	10101.3	10528.1	11358.1	12079.9	11342.4	10561.5	10005.0	9869.2	9751.2
62.5°	11074.9	11206.6	11269.6	11743.6	12711.2	13572.7	12725.0	11779.0	11161.4	11015.9	10897.9
65°	12194.0	12302.1	12372.9	12878.4	13802.8	14666.2	13865.7	12933.5	12298.2	12107.4	12013.0
67.5°	12715.2	12774.2	12947.2	13519.6	14495.1	15480.4	14660.3	13580.5	12870.5	12536.2	12540.1
70°	11952.1	11832.1	12249.0	13165.5	14577.7	15980.0	14766.5	13138.0	12268.7	11725.9	11855.7
72.5°	9235.9	9029.4	9753.2	11320.7	13633.6	15661.4	13728.0	11409.2	10203.6	9102.2	9375.6
75°	5025.1	4791.0	5790.2	7772.7	10872.3	13574.6	11122.1	7994.9	6447.1	4987.7	5312.2
77.5°	1418.0	1329.5	2135.9	3760.5	6539.5	9531.0	6791.3	3843.1	2533.2	1502.6	1669.8
80°	434.7	420.9	570.4	1132.9	2777.1	4564.9	2668.9	1146.6	725.7	458.3	483.8
82.5°	257.6	236.0	283.2	413.0	708.0	1433.8	688.4	430.7	346.2	232.1	251.7
85°	147.5	137.7	167.2	200.6	238.0	304.8	198.6	204.5	184.9	123.9	129.8
87.5°	61.0	55.1	64.9	62.9	55.1	70.8	53.1	62.9	74.7	49.2	45.2
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)