

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: P885282

Luminaire Tested: **NAV-SB6C-730-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885282
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-730-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 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: 45261 lumens
Efficiency: N/A
Efficacy: 150.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

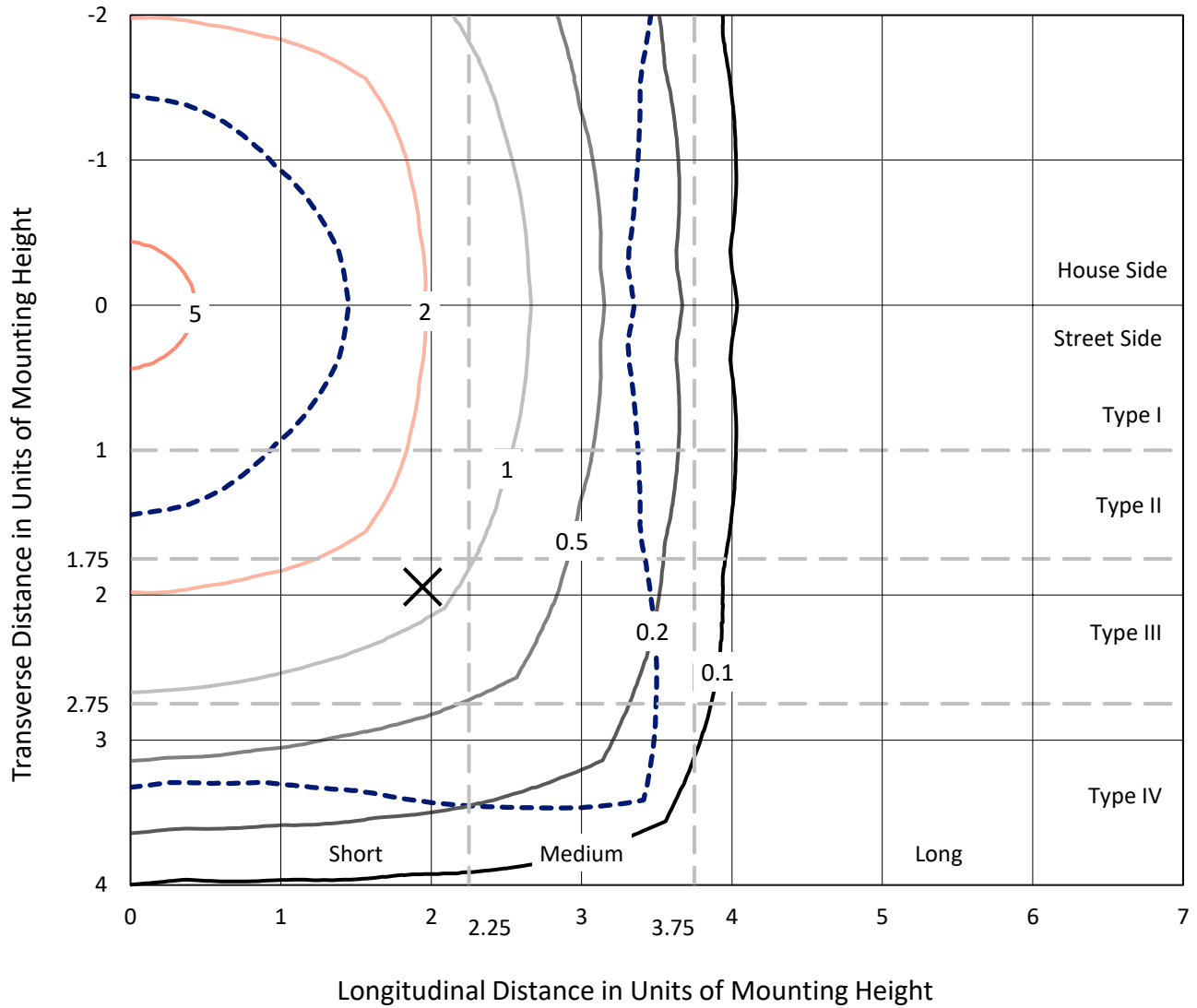
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

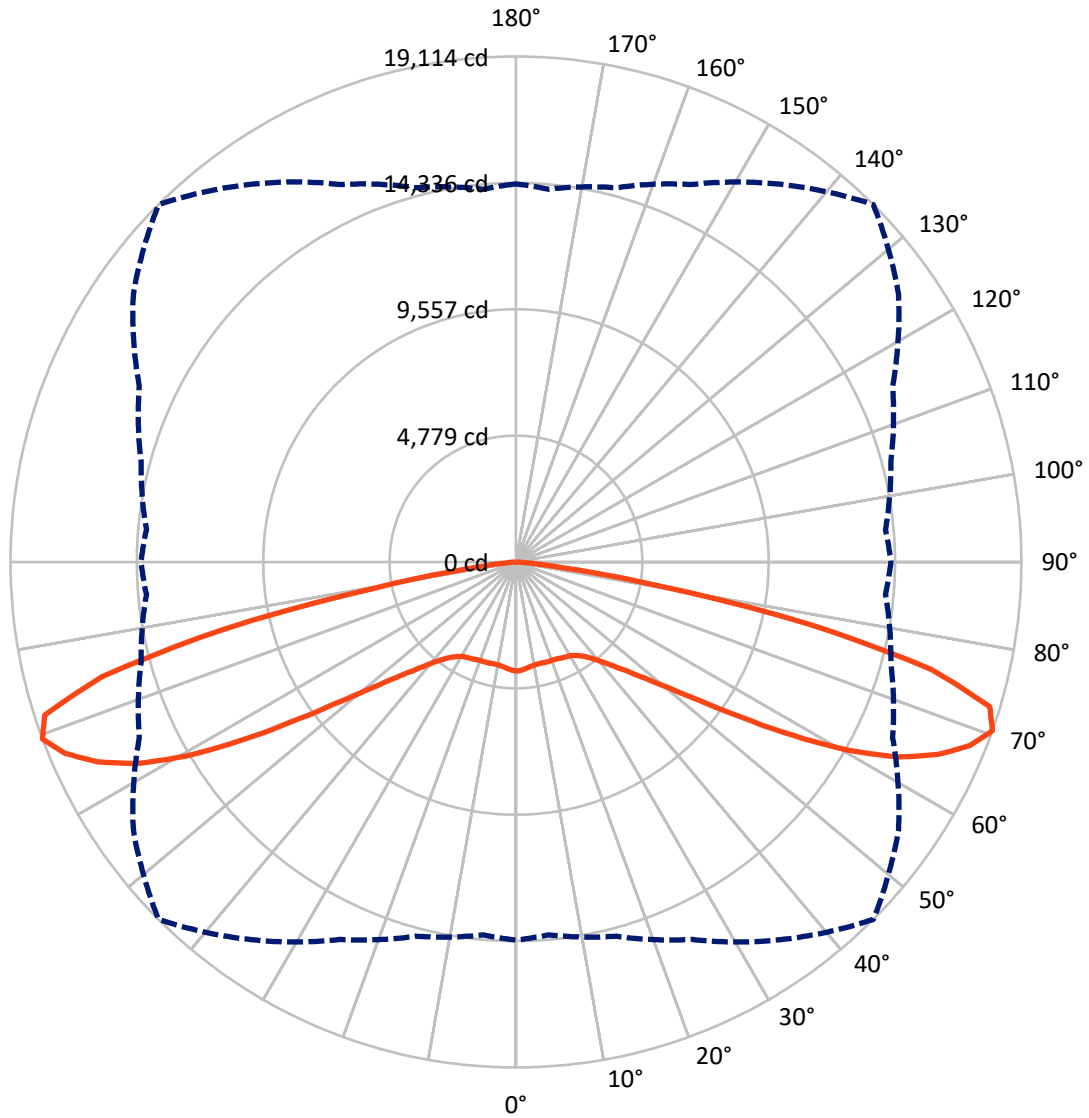
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	22630.5	0.0	22630.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22630.5	0.0	22630.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	45261.0	0.0	45261.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.1	0.8
10°-20°	1127.7	2.5
20°-30°	1876.7	4.1
30°-40°	2838.1	6.3
40°-50°	4716.3	10.4
50°-60°	8899.4	19.7
60°-70°	15027.1	33.2
70°-80°	9874.3	21.8
80°-90°	517.3	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°	45261.0	100.0
0°-180°	45261.0	100.0



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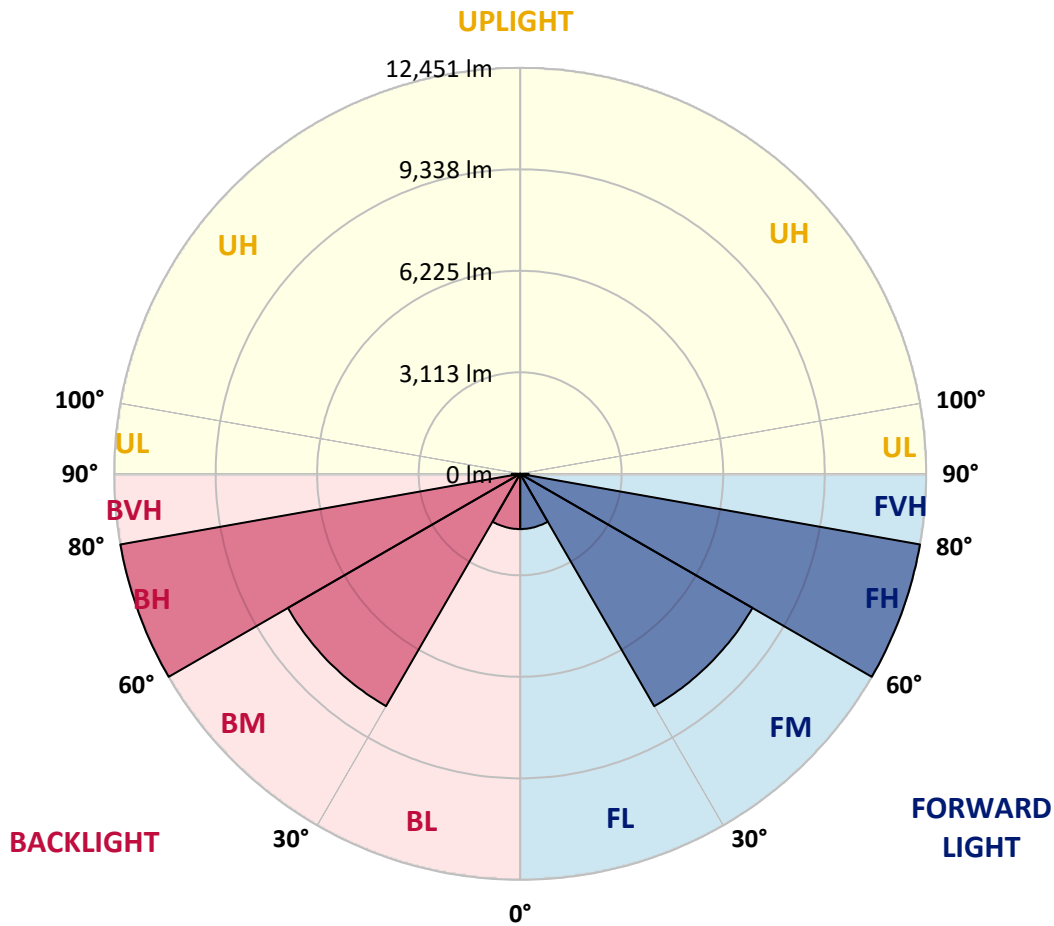
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1694.2	3.7			
FM (30°-60°)	8226.9	18.2			
FH (60°-80°)	12450.7	27.5			G5
FVH (80°-90°)	258.7	0.6			G3/500
BL (0°-30°)	1694.2	3.7	B3/2500		
BM (30°-60°)	8226.9	18.2	B4/8500		
BH (60°-80°)	12450.7	27.5	B5		G5
BVH (80°-90°)	258.7	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°	4128.7	4128.7	4128.7	4128.7	4128.7	4128.7	4128.7	4128.7	4128.7	4128.7	4128.7
2.5°	4102.8	4114.6	4109.9	4100.5	4100.5	4093.4	4100.5	4105.2	4112.2	4117.0	4114.6
5°	4048.7	4058.1	4055.8	4048.7	4051.1	4044.0	4048.7	4055.8	4060.5	4062.8	4062.8
7.5°	4001.7	4011.1	4006.4	3994.6	3994.6	3987.6	3989.9	3997.0	4004.0	4006.4	4006.4
10°	3989.9	3999.3	3985.2	3966.4	3959.3	3949.9	3952.3	3959.3	3973.4	3980.5	3980.5
12.5°	3994.6	4001.7	3987.6	3959.3	3952.3	3942.9	3942.9	3949.9	3968.7	3978.2	3980.5
15°	4008.7	4015.8	3994.6	3964.0	3957.0	3949.9	3947.6	3957.0	3978.2	3994.6	3997.0
17.5°	4034.6	4041.7	4008.7	3966.4	3957.0	3959.3	3957.0	3964.0	3997.0	4027.6	4027.6
20°	4058.1	4062.8	4018.1	3966.4	3957.0	3959.3	3957.0	3971.1	4013.4	4055.8	4058.1
22.5°	4065.2	4069.9	4027.6	3982.9	3975.8	3978.2	3975.8	3989.9	4029.9	4072.3	4072.3
25°	4067.5	4074.6	4041.7	4006.4	4018.1	4022.8	4018.1	4020.5	4051.1	4088.7	4086.4
27.5°	4102.8	4112.2	4081.7	4051.1	4058.1	4055.8	4062.8	4069.9	4093.4	4131.1	4121.7
30°	4175.8	4182.8	4156.9	4126.4	4121.7	4105.2	4126.4	4149.9	4175.8	4208.7	4201.6
32.5°	4295.7	4309.9	4276.9	4244.0	4222.8	4213.4	4229.9	4269.9	4305.2	4340.4	4326.3
35°	4495.7	4505.1	4474.5	4413.4	4375.7	4375.7	4389.8	4441.6	4498.1	4542.8	4526.3
37.5°	4778.0	4789.8	4735.7	4662.7	4606.3	4606.3	4625.1	4679.2	4763.9	4827.4	4803.9
40°	5121.5	5138.0	5069.7	4994.5	4940.3	4930.9	4954.5	5015.6	5095.6	5175.6	5149.7
42.5°	5535.5	5554.4	5465.0	5399.1	5356.7	5356.7	5368.5	5425.0	5497.9	5596.7	5589.6
45°	6064.9	6097.8	5975.5	5909.6	5869.6	5879.0	5886.1	5935.5	6001.3	6114.3	6109.6
47.5°	6695.3	6728.3	6598.9	6530.7	6523.6	6568.3	6540.1	6575.4	6610.6	6740.0	6702.4
50°	7410.5	7467.0	7377.6	7372.9	7387.0	7469.3	7403.5	7422.3	7382.3	7464.6	7415.2
52.5°	8285.7	8368.0	8351.5	8379.8	8537.4	8706.8	8556.2	8490.3	8339.8	8365.6	8278.6
55°	9346.7	9471.3	9494.9	9664.3	10021.8	10367.7	10047.7	9781.9	9461.9	9403.1	9311.4
57.5°	10553.5	10652.3	10765.2	11111.1	11779.2	12393.2	11779.2	11191.1	10687.6	10567.6	10482.9
60°	11852.1	11974.4	12082.7	12593.2	13585.9	14449.3	13567.1	12633.2	11967.4	11805.1	11663.9
62.5°	13247.2	13404.8	13480.1	14047.0	15204.5	16234.9	15221.0	14089.4	13350.7	13176.6	13035.4
65°	14585.8	14715.2	14799.9	15404.5	16510.2	17542.9	16585.4	15470.3	14710.5	14482.3	14369.3
67.5°	15209.2	15279.8	15486.8	16171.4	17338.2	18516.9	17535.9	16244.3	15395.0	14995.1	14999.8
70°	14296.4	14152.9	14651.6	15747.9	17437.1	19114.4	17662.9	15715.0	14675.2	14025.9	14181.1
72.5°	11047.5	10800.5	11666.3	13541.2	16307.8	18733.3	16420.8	13647.1	12205.0	10887.6	11214.6
75°	6010.7	5730.8	6925.9	9297.3	13004.9	16237.3	13303.6	9563.1	7711.6	5966.1	6354.2
77.5°	1696.2	1590.3	2554.9	4498.1	7822.2	11400.4	8123.3	4596.9	3030.1	1797.3	1997.3
80°	519.9	503.4	682.2	1355.1	3321.8	5460.3	3192.4	1371.5	868.1	548.1	578.7
82.5°	308.2	282.3	338.8	494.0	846.9	1715.0	823.4	515.2	414.0	277.6	301.1
85°	176.4	164.7	200.0	240.0	284.7	364.6	237.6	244.7	221.1	148.2	155.3
87.5°	72.9	65.9	77.6	75.3	65.9	84.7	63.5	75.3	89.4	58.8	54.1
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)