

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: P969976

Luminaire Tested: **NAV-SB6A-830-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969976
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-830-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26253.3 lumens
Efficiency: N/A
Efficacy: 153.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

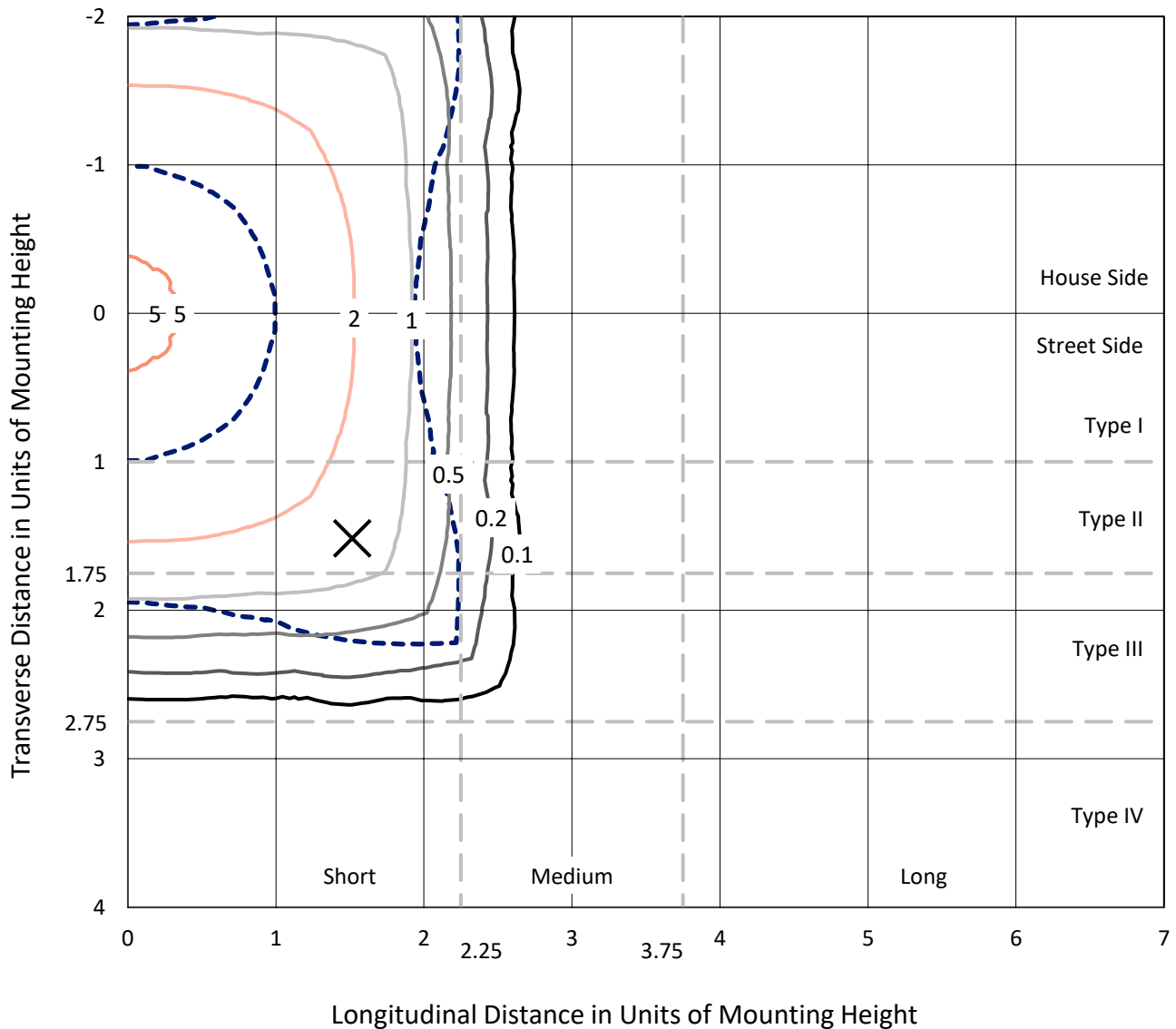
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P969976
CATALOG NUMBER: NAV-SB6A-830-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

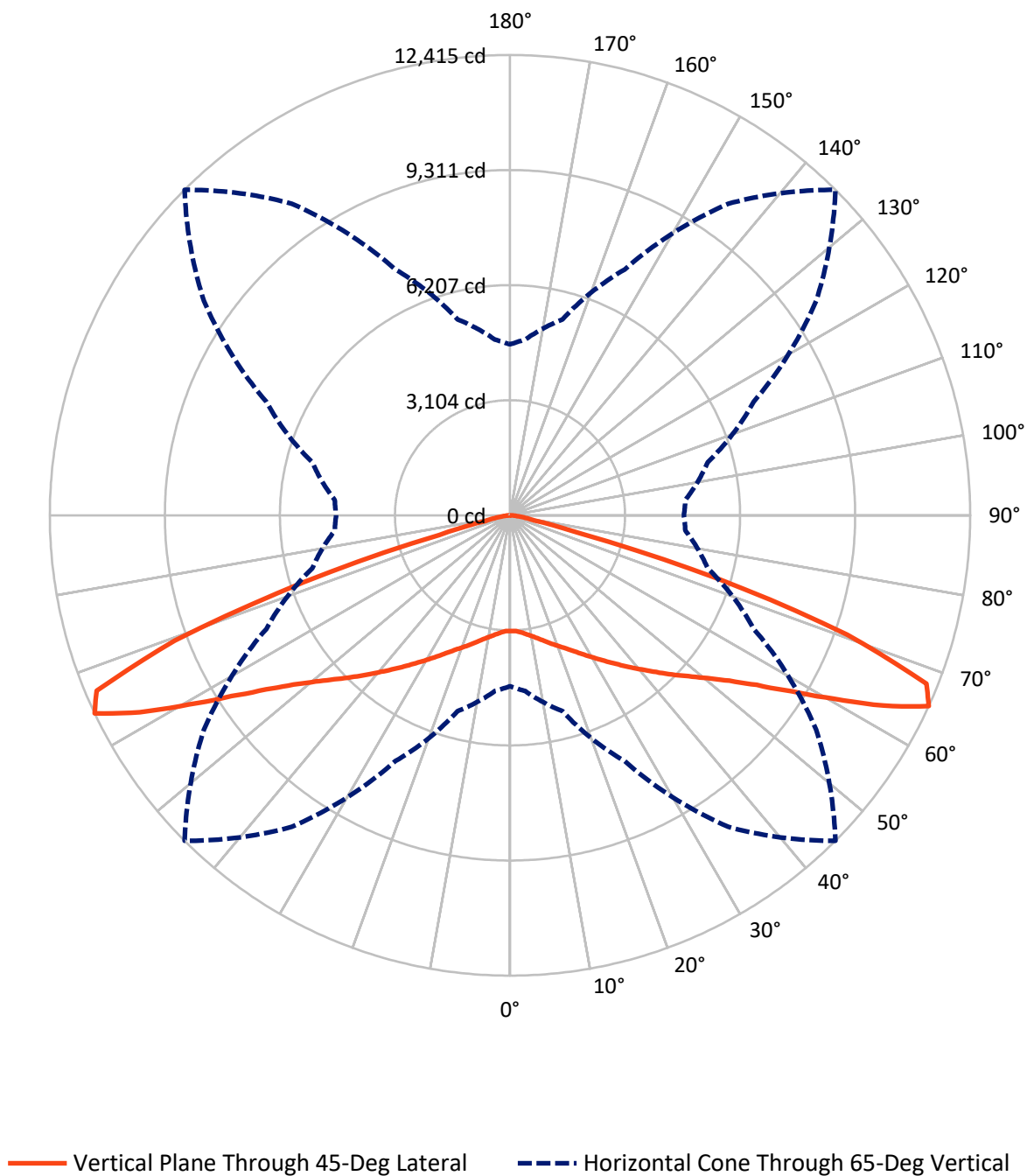
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
Type V - Short - N/A

REPORT NUMBER: P969976
CATALOG NUMBER: NAV-SB6A-830-U-5NQ

Luminous Intensity Polar Plot



REPORT NUMBER: P969976

CATALOG NUMBER: NAV-SB6A-830-U-5NQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13126.6	0.0	13126.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13126.6	0.0	13126.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	26253.3	0.0	26253.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.3	1.2
10°-20°	1006.2	3.8
20°-30°	1899.8	7.2
30°-40°	3110.8	11.8
40°-50°	4823.3	18.4
50°-60°	7125.0	27.1
60°-70°	6782.4	25.8
70°-80°	1094.4	4.2
80°-90°	103.2	0.4
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°	26253.3	100.0
0°-180°	26253.3	100.0

Coefficient of Utilization



REPORT NUMBER: P969976

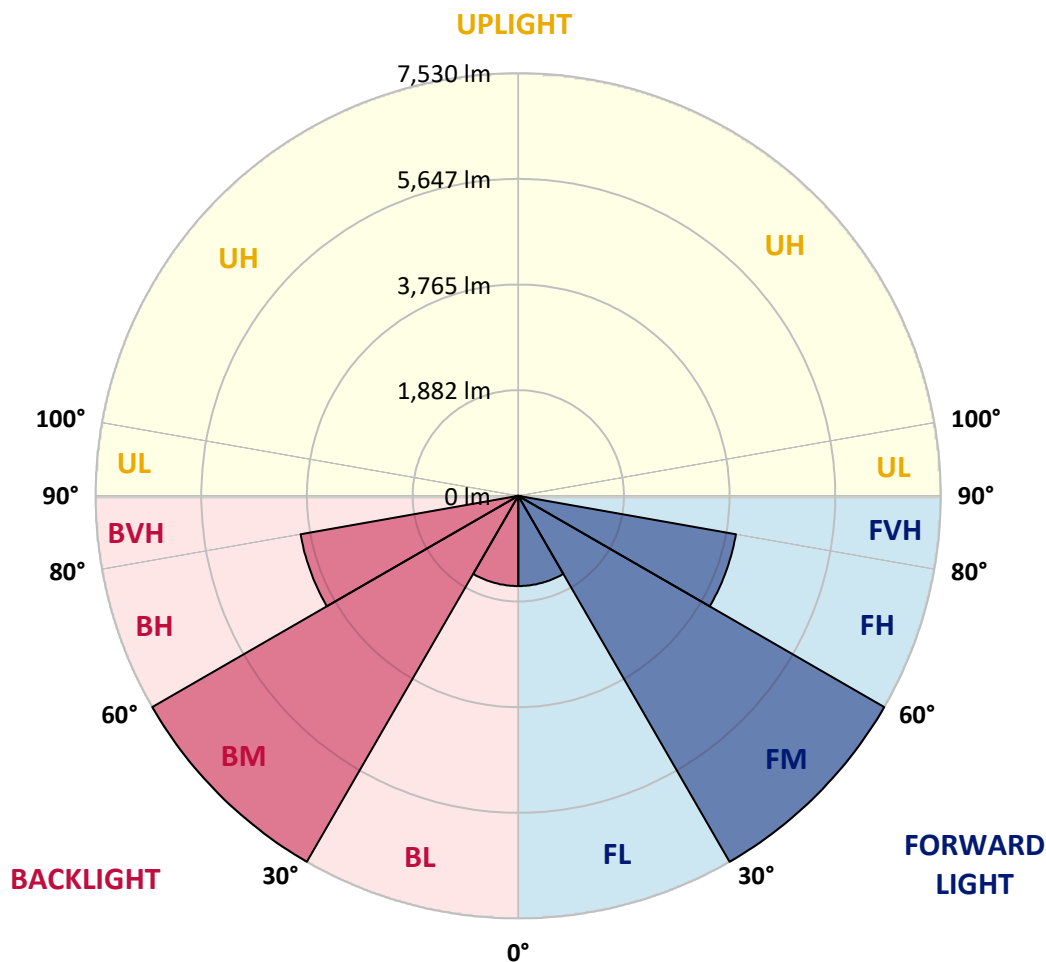
CATALOG NUMBER: NAV-SB6A-830-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1607.1	6.1			
FM	(30°-60°)	7529.5	28.7			
FH	(60°-80°)	3938.4	15.0			G2/5000
FVH	(80°-90°)	51.6	0.2			G1/100
BL	(0°-30°)	1607.1	6.1	B3/2500		
BM	(30°-60°)	7529.5	28.7	B4/8500		
BH	(60°-80°)	3938.4	15.0	B4/5000		G2/5000
BVH	(80°-90°)	51.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



REPORT NUMBER: P969976

CATALOG NUMBER: NAV-SB6A-830-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3124.4	3124.4	3124.4	3124.4	3124.4	3124.4	3124.4	3124.4	3124.4	3124.4	3124.4
2.5°	3145.5	3135.0	3142.9	3136.3	3131.0	3125.7	3128.4	3137.6	3141.5	3142.9	3142.9
5°	3187.6	3178.4	3182.3	3182.3	3173.2	3170.5	3171.9	3178.4	3186.3	3186.3	3186.3
7.5°	3256.1	3246.9	3256.1	3250.9	3243.0	3240.3	3239.0	3244.2	3256.1	3256.1	3252.2
10°	3339.1	3328.6	3333.8	3331.2	3322.0	3318.0	3316.7	3324.6	3335.1	3333.8	3331.2
12.5°	3430.0	3418.2	3424.7	3416.8	3414.2	3410.3	3410.3	3408.9	3415.5	3410.3	3412.8
15°	3531.4	3523.5	3526.2	3520.9	3524.9	3522.2	3511.6	3506.4	3509.0	3501.1	3502.4
17.5°	3651.3	3632.8	3642.0	3639.5	3639.5	3644.7	3627.6	3621.0	3626.2	3618.4	3624.9
20°	3789.6	3771.2	3775.1	3769.8	3763.3	3768.5	3747.4	3752.7	3756.6	3751.4	3763.3
22.5°	3941.1	3917.3	3916.0	3918.7	3904.2	3905.6	3891.0	3904.2	3912.1	3897.6	3912.1
25°	4096.5	4071.5	4088.6	4082.1	4063.6	4067.5	4057.0	4070.2	4076.7	4058.3	4079.4
27.5°	4261.1	4244.0	4259.8	4263.8	4241.3	4257.2	4241.3	4253.2	4259.8	4232.2	4253.2
30°	4453.4	4436.3	4450.9	4461.4	4435.1	4460.1	4446.9	4454.8	4456.1	4423.2	4443.0
32.5°	4662.9	4636.6	4673.5	4678.7	4649.7	4680.0	4662.9	4673.5	4680.0	4635.3	4665.5
35°	4918.5	4885.6	4927.7	4921.0	4896.0	4921.0	4905.2	4921.0	4936.9	4882.9	4915.8
37.5°	5193.8	5159.4	5204.2	5192.4	5168.7	5185.8	5176.7	5187.1	5212.2	5154.2	5189.8
40°	5496.7	5454.5	5515.1	5494.1	5471.7	5469.0	5474.3	5480.9	5513.8	5449.3	5470.3
42.5°	5820.8	5776.0	5866.8	5833.9	5802.3	5781.2	5798.3	5811.5	5843.1	5770.6	5808.9
45°	6190.9	6139.4	6258.0	6218.5	6168.4	6125.0	6152.7	6172.4	6218.5	6131.5	6176.3
47.5°	6599.2	6541.2	6667.7	6655.8	6574.1	6479.3	6542.6	6599.2	6633.4	6528.0	6563.6
50°	6998.3	6953.5	7119.4	7134.0	7033.9	6900.8	6989.1	7074.7	7083.9	6945.6	6962.7
52.5°	7372.4	7327.6	7568.7	7659.5	7569.9	7411.9	7505.5	7592.4	7522.6	7343.4	7348.6
55°	7671.4	7634.5	7941.4	8175.9	8206.2	8075.8	8131.1	8128.5	7899.3	7623.9	7633.2
57.5°	7743.9	7738.5	8125.8	8622.4	8938.5	8954.4	8845.0	8565.8	8071.9	7701.6	7678.0
60°	7414.5	7447.4	7979.6	8855.6	9698.6	10049.0	9576.1	8779.1	7875.6	7361.9	7301.3
62.5°	6429.3	6516.2	7157.7	8571.0	10312.4	11308.2	10162.3	8455.1	7069.4	6399.0	6359.5
65°	4607.6	4759.1	5467.8	7314.4	10257.1	12414.7	10077.9	7255.2	5520.4	4747.2	4690.6
67.5°	2090.4	2244.5	2846.5	5008.0	8916.2	12114.4	8895.1	5060.7	2988.7	2252.4	2219.5
70°	757.4	783.7	977.3	2004.8	5698.2	9652.4	5941.9	2019.2	1039.2	835.1	824.6
72.5°	458.4	462.4	503.2	717.9	1979.8	5860.2	2064.0	741.6	513.7	455.7	463.6
75°	291.1	288.4	358.2	438.6	702.0	1977.1	736.4	438.6	357.0	325.3	328.0
77.5°	209.4	216.1	256.9	328.0	442.6	670.5	434.7	313.4	256.9	210.7	214.7
80°	156.7	160.7	187.1	255.5	310.9	417.6	276.6	231.9	193.6	131.7	135.7
82.5°	113.3	113.3	122.5	185.7	189.7	225.2	150.2	163.3	127.8	93.5	93.5
85°	67.1	65.9	76.4	110.6	98.8	83.0	68.5	100.1	80.4	57.9	56.7
87.5°	23.7	25.0	23.7	31.6	26.3	22.3	21.1	27.7	22.3	19.8	18.4
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)