

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: P968922

Luminaire Tested: **NAV-SB5C-830-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968922
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-SB5C-830-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36511.5 lumens
Efficiency: N/A
Efficacy: 146.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 249.5
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

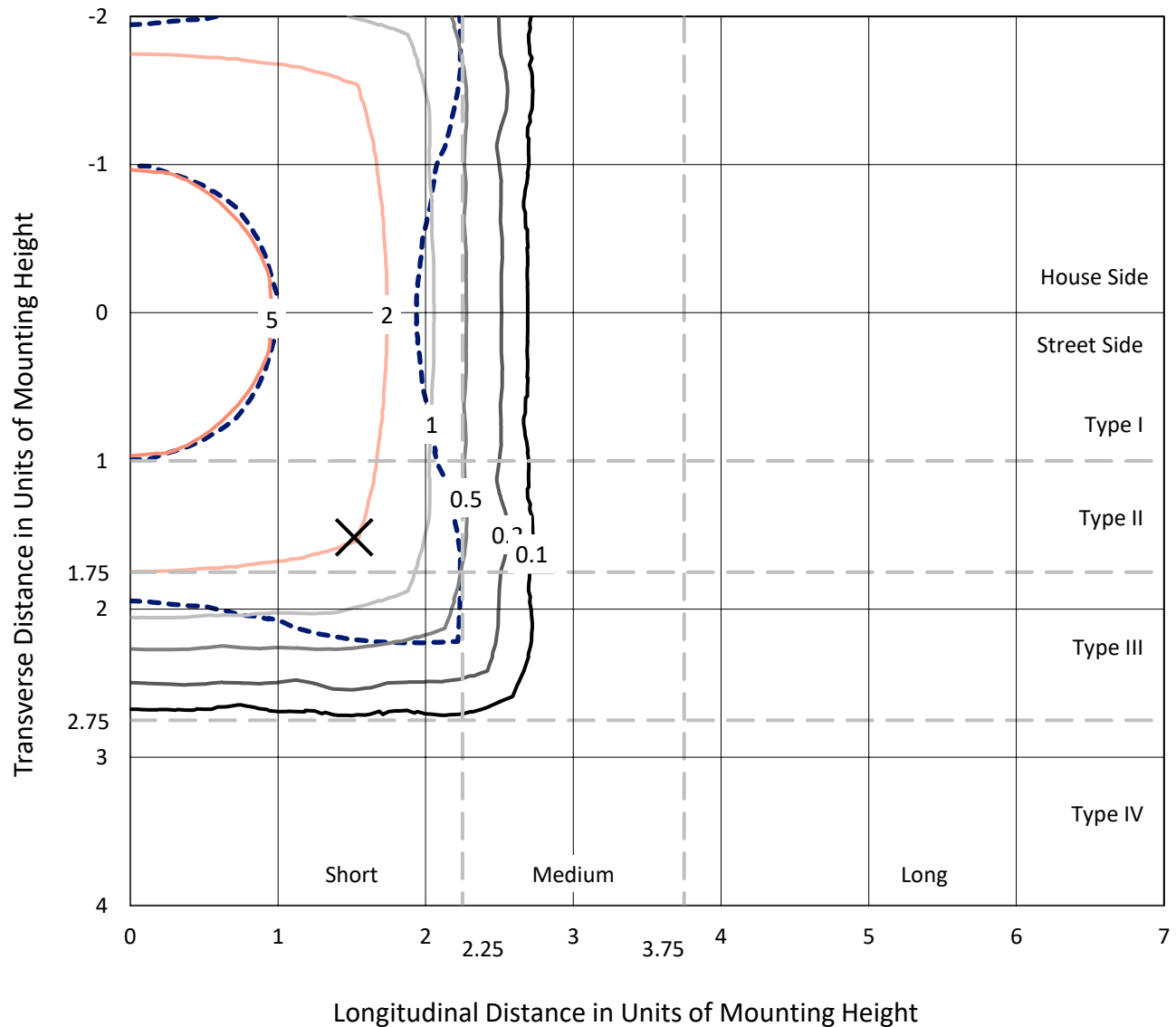


REPORT NUMBER: P968922

CATALOG NUMBER: NAV-SB5C-830-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

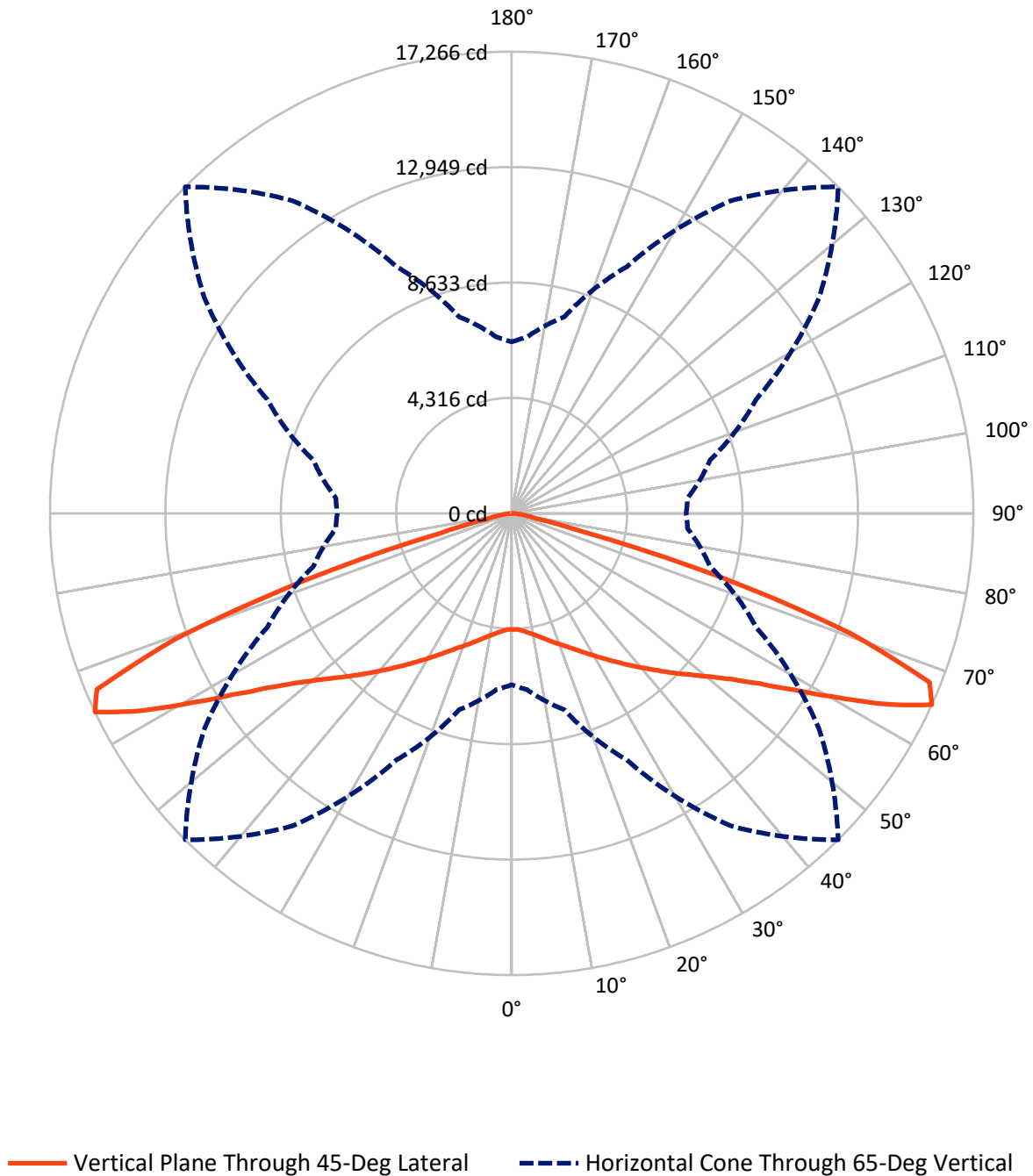
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
Type V - Short - N/A

REPORT NUMBER: P968922
CATALOG NUMBER: NAV-SB5C-830-U-5NQ

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18255.8	0.0	18255.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18255.8	0.0	18255.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	36511.5	0.0	36511.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.8	1.2
10°-20°	1399.3	3.8
20°-30°	2642.1	7.2
30°-40°	4326.3	11.8
40°-50°	6708.0	18.4
50°-60°	9909.1	27.1
60°-70°	9432.5	25.8
70°-80°	1522.1	4.2
80°-90°	143.5	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°	36511.5	100.0
0°-180°	36511.5	100.0

Coefficient of Utilization



REPORT NUMBER: P968922

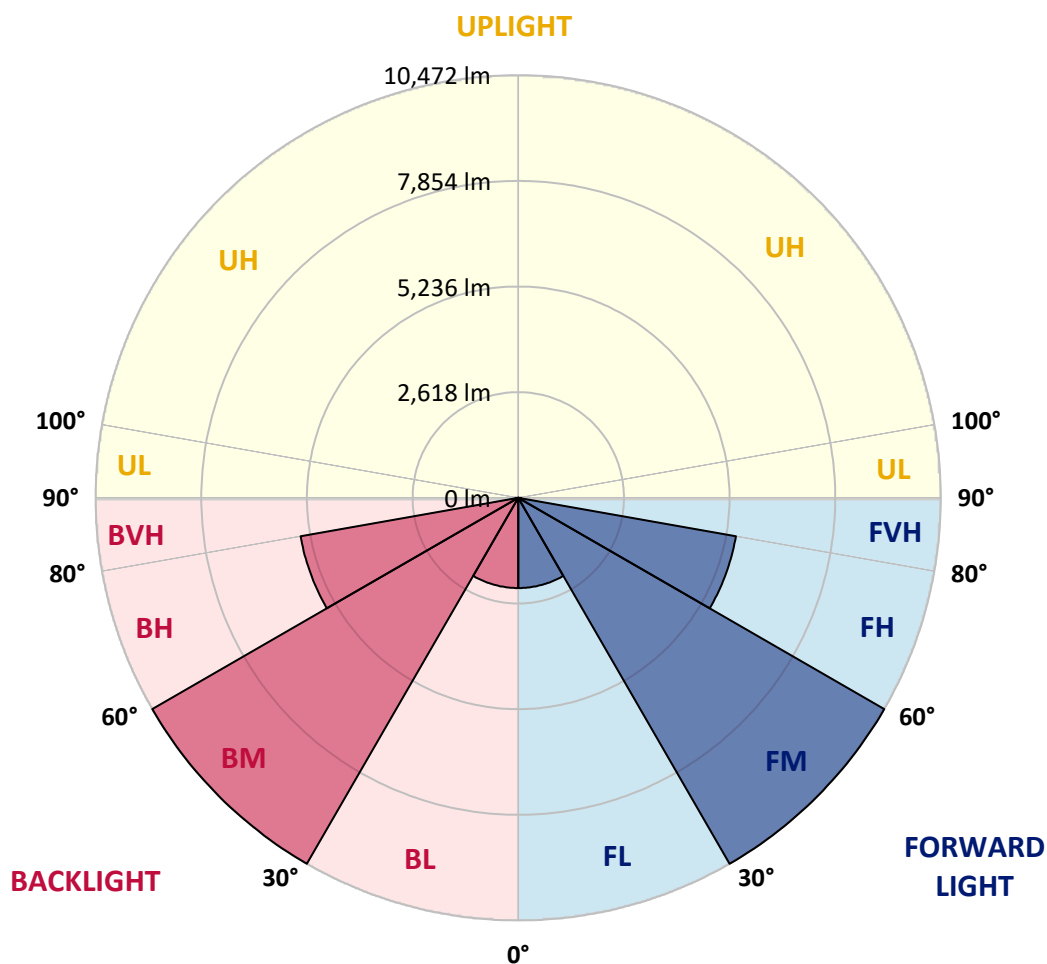
CATALOG NUMBER: NAV-SB5C-830-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2235.1	6.1			
FM	(30°-60°)	10471.6	28.7			
FH	(60°-80°)	5477.3	15.0			G3/7500
FVH	(80°-90°)	71.7	0.2			G1/100
BL	(0°-30°)	2235.1	6.1	B3/2500		
BM	(30°-60°)	10471.6	28.7	B5		
BH	(60°-80°)	5477.3	15.0	B5		G3/7500
BVH	(80°-90°)	71.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



REPORT NUMBER: P968922

CATALOG NUMBER: NAV-SB5C-830-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4345.3	4345.3	4345.3	4345.3	4345.3	4345.3	4345.3	4345.3	4345.3	4345.3	4345.3
2.5°	4374.6	4359.9	4370.9	4361.7	4354.4	4347.0	4350.7	4363.5	4369.1	4370.9	4370.9
5°	4433.1	4420.3	4425.8	4425.8	4413.0	4409.3	4411.2	4420.3	4431.4	4431.4	4431.4
7.5°	4528.4	4515.6	4528.4	4521.1	4510.1	4506.4	4504.6	4511.9	4528.4	4528.4	4522.9
10°	4643.9	4629.2	4636.5	4632.8	4620.0	4614.5	4612.7	4623.7	4638.3	4636.5	4632.8
12.5°	4770.2	4753.7	4762.9	4751.9	4748.2	4742.8	4742.8	4740.9	4750.1	4742.8	4746.5
15°	4911.3	4900.3	4904.0	4896.6	4902.2	4898.5	4883.8	4876.4	4880.1	4869.2	4871.0
17.5°	5078.0	5052.3	5065.1	5061.6	5061.6	5068.8	5045.0	5035.8	5043.2	5032.2	5041.4
20°	5270.3	5244.7	5250.2	5242.9	5233.8	5241.0	5211.7	5219.1	5224.5	5217.2	5233.8
22.5°	5481.0	5448.1	5446.2	5449.8	5429.7	5431.6	5411.4	5429.7	5440.7	5420.5	5440.7
25°	5697.2	5662.4	5686.2	5677.1	5651.3	5656.9	5642.2	5660.6	5669.7	5644.1	5673.4
27.5°	5926.1	5902.4	5924.3	5929.8	5898.7	5920.7	5898.7	5915.2	5924.3	5885.9	5915.2
30°	6193.6	6169.8	6190.0	6204.6	6167.9	6202.8	6184.4	6195.4	6197.3	6151.4	6178.9
32.5°	6484.9	6448.3	6499.5	6506.9	6466.5	6508.6	6484.9	6499.5	6508.6	6446.4	6488.6
35°	6840.2	6794.5	6853.0	6843.9	6809.1	6843.9	6822.0	6843.9	6866.0	6790.8	6836.6
37.5°	7223.2	7175.5	7237.8	7221.3	7188.3	7212.1	7199.3	7214.0	7248.8	7168.1	7217.6
40°	7644.4	7585.8	7670.1	7640.8	7609.7	7606.0	7613.3	7622.5	7668.2	7578.5	7607.9
42.5°	8095.1	8032.8	8159.2	8113.4	8069.4	8040.2	8064.0	8082.3	8126.3	8025.5	8078.6
45°	8609.9	8538.5	8703.3	8648.3	8578.7	8518.3	8556.7	8584.3	8648.3	8527.4	8589.7
47.5°	9177.7	9097.2	9273.0	9256.6	9143.0	9011.1	9099.0	9177.7	9225.4	9078.8	9128.3
50°	9732.8	9670.6	9901.4	9921.5	9782.3	9597.3	9720.0	9839.1	9851.9	9659.5	9683.4
52.5°	10253.1	10190.8	10526.0	10652.4	10527.9	10308.0	10438.1	10559.0	10461.9	10212.8	10220.1
55°	10668.9	10617.7	11044.5	11370.5	11412.7	11231.3	11308.2	11304.6	10985.8	10603.0	10615.8
57.5°	10769.7	10762.3	11300.9	11991.6	12431.2	12453.1	12301.1	11912.8	11225.8	10711.0	10678.0
60°	10311.7	10357.5	11097.6	12315.8	13488.2	13975.5	13317.8	12209.5	10952.8	10238.4	10154.2
62.5°	8941.5	9062.3	9954.5	11920.1	14341.8	15726.8	14133.0	11758.9	9831.7	8899.4	8844.3
65°	6408.0	6618.6	7604.2	10172.5	14264.9	17265.5	14015.7	10090.0	7677.5	6602.1	6523.3
67.5°	2907.2	3121.5	3958.8	6964.9	12400.0	16847.8	12370.7	7038.1	4156.6	3132.5	3086.7
70°	1053.3	1090.0	1359.3	2788.1	7924.8	13424.1	8263.7	2808.3	1445.4	1161.4	1146.8
72.5°	637.4	643.0	699.8	998.4	2753.4	8150.1	2870.6	1031.4	714.4	633.9	644.8
75°	404.9	401.2	498.3	610.0	976.4	2749.7	1024.0	610.0	496.4	452.4	456.1
77.5°	291.3	300.4	357.2	456.1	615.5	932.4	604.5	436.0	357.2	293.2	298.6
80°	218.0	223.4	260.1	355.4	432.3	580.7	384.7	322.4	269.3	183.2	188.7
82.5°	157.5	157.5	170.4	258.3	263.8	313.2	208.8	227.1	177.7	130.1	130.1
85°	93.4	91.6	106.3	153.9	137.4	115.4	95.2	139.2	111.7	80.6	78.7
87.5°	33.0	34.8	33.0	44.0	36.6	31.2	29.3	38.4	31.2	27.5	25.6
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)