

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: P966663

Luminaire Tested: **NAV-SB4C-735-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966663
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4C-735-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31680.7 lumens
Efficiency: N/A
Efficacy: 157.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

Input Watts (W): 200.7
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

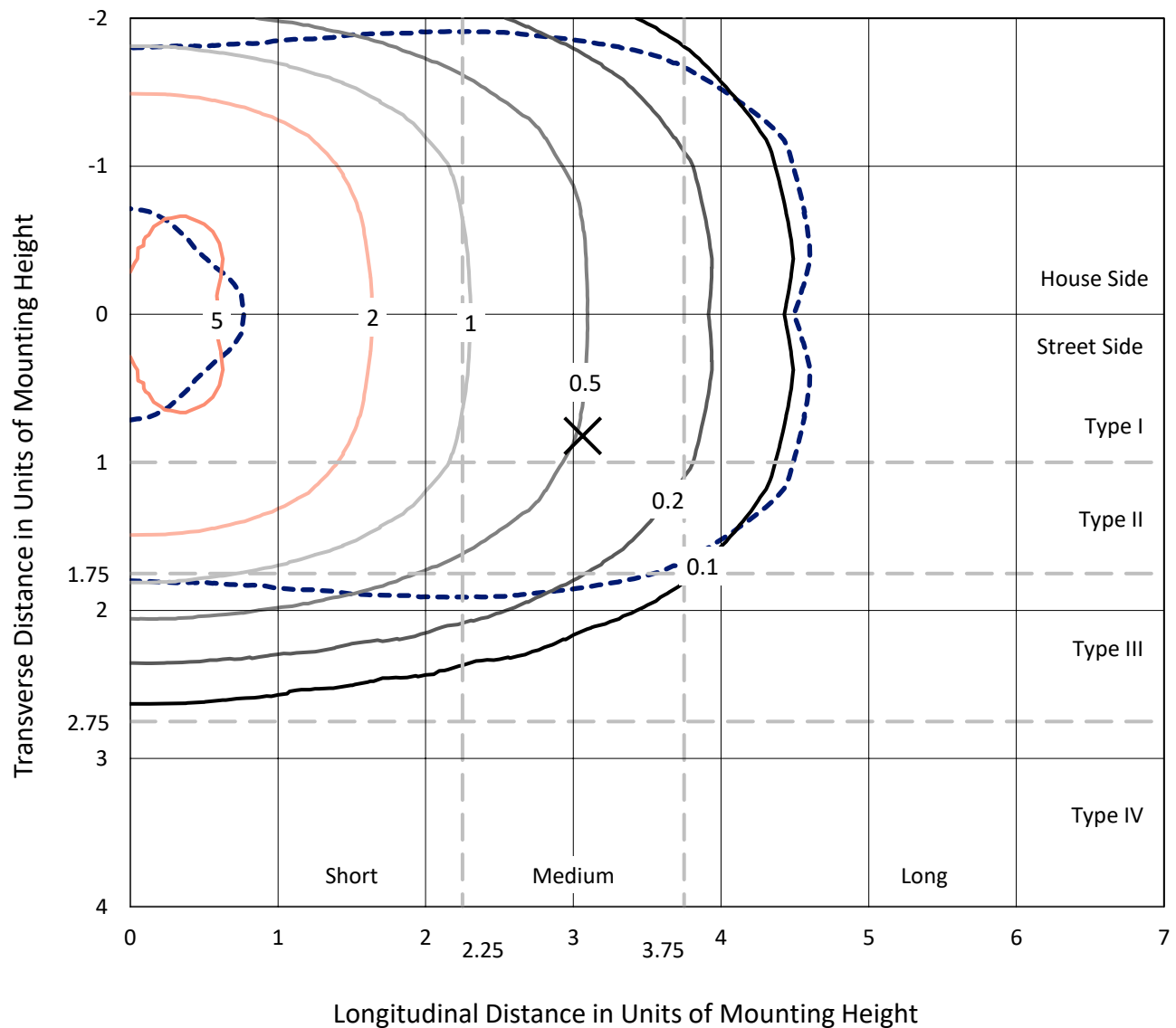


REPORT NUMBER: P966663

CATALOG NUMBER: NAV-SB4C-735-U-RW

Iso-Footcandle Lines of Horizontal Illumination

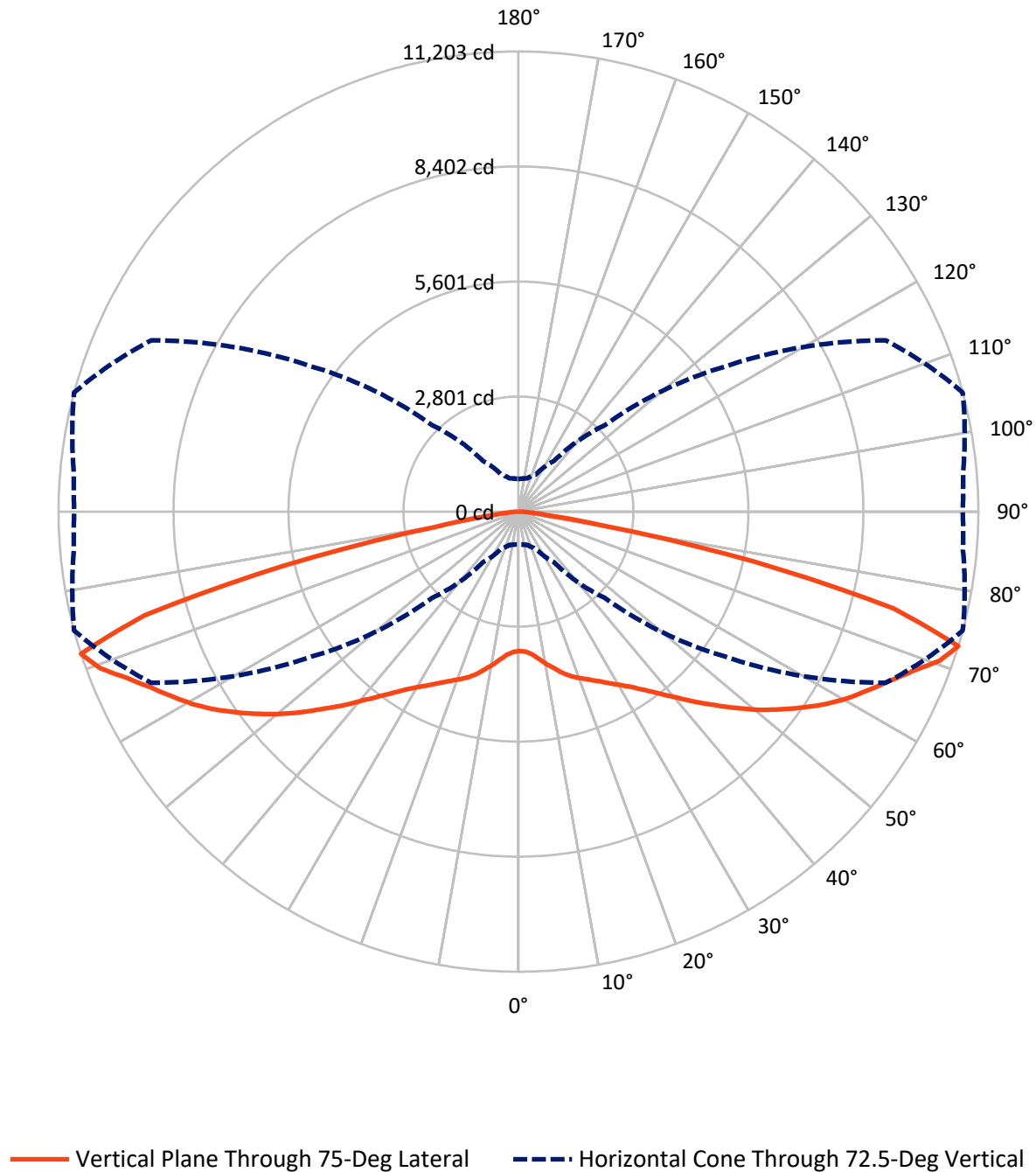
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
Type III - Medium - N/A

REPORT NUMBER: P966663
CATALOG NUMBER: NAV-SB4C-735-U-RW

Luminous Intensity Polar Plot



REPORT NUMBER: P966663

CATALOG NUMBER: NAV-SB4C-735-U-RW

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15840.3	0.0	15840.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15840.3	0.0	15840.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	31680.7	0.0	31680.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.4	1.0
10°-20°	1096.4	3.5
20°-30°	2118.6	6.7
30°-40°	3577.4	11.3
40°-50°	5673.3	17.9
50°-60°	7595.9	24.0
60°-70°	7228.9	22.8
70°-80°	3772.1	11.9
80°-90°	285.5	0.9
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°	31680.7	100.0
0°-180°	31680.7	100.0

Coefficient of Utilization



REPORT NUMBER: P966663

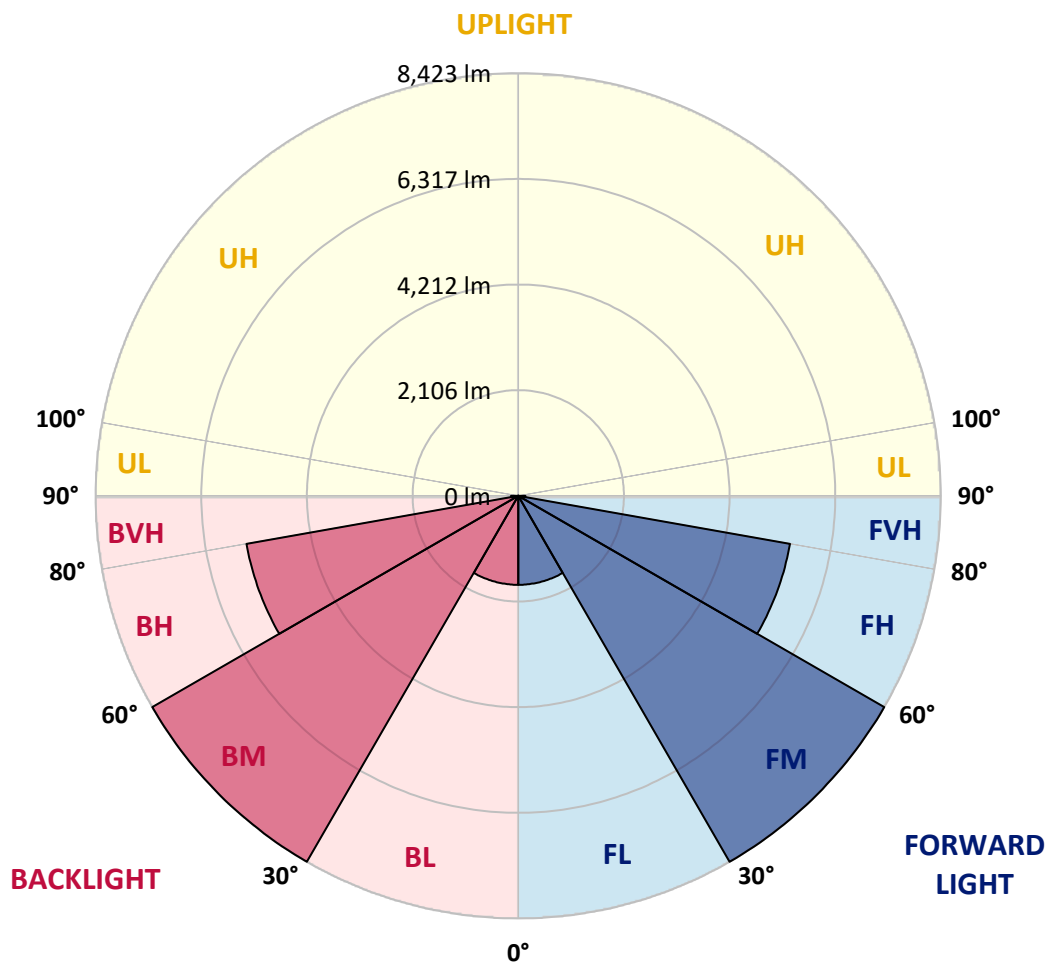
CATALOG NUMBER: NAV-SB4C-735-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1773.7	5.6			
FM	(30°-60°)	8423.3	26.6			
FH	(60°-80°)	5500.5	17.4			G3/7500
FVH	(80°-90°)	142.8	0.5			G2/225
BL	(0°-30°)	1773.7	5.6	B3/2500		
BM	(30°-60°)	8423.3	26.6	B4/8500		
BH	(60°-80°)	5500.5	17.4	B5		G5
BVH	(80°-90°)	142.8	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Medium



REPORT NUMBER: P966663

CATALOG NUMBER: NAV-SB4C-735-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3393.6	3393.6	3393.6	3393.6	3393.6	3393.6	3393.6	3393.6	3393.6	3393.6	3393.6
2.5°	3393.6	3390.3	3393.6	3396.8	3395.2	3395.2	3403.3	3408.1	3417.9	3416.2	3414.6
5°	3370.9	3369.3	3382.3	3396.8	3408.1	3427.5	3451.8	3469.6	3492.3	3497.1	3497.1
7.5°	3359.6	3354.7	3377.4	3403.3	3438.9	3487.4	3534.3	3582.8	3621.6	3634.5	3637.8
10°	3367.7	3369.3	3400.0	3448.6	3505.2	3573.2	3639.5	3721.9	3776.9	3789.8	3802.9
12.5°	3404.8	3401.7	3453.4	3531.0	3608.7	3694.4	3772.1	3862.6	3922.5	3953.2	3966.1
15°	3472.8	3466.3	3539.1	3654.0	3767.2	3867.5	3930.6	4016.4	4085.9	4124.7	4139.3
17.5°	3553.7	3557.0	3652.4	3801.2	3950.0	4063.2	4123.1	4166.7	4220.1	4254.1	4270.3
20°	3696.0	3702.5	3809.3	3985.6	4155.5	4284.8	4333.4	4317.2	4331.8	4357.6	4377.1
22.5°	3886.9	3890.2	4009.8	4200.8	4378.6	4521.0	4553.4	4487.0	4446.6	4464.4	4477.3
25°	4108.5	4129.5	4249.2	4444.9	4627.8	4763.6	4778.1	4677.9	4577.6	4582.5	4590.6
27.5°	4378.6	4398.1	4519.3	4713.5	4899.5	5017.6	5015.9	4881.7	4734.5	4697.3	4708.6
30°	4671.4	4692.4	4817.0	5017.6	5190.6	5294.1	5271.5	5111.4	4901.1	4831.5	4839.6
32.5°	5019.2	5032.1	5158.3	5358.9	5519.0	5601.5	5554.6	5357.3	5095.2	5015.9	5035.3
35°	5439.8	5459.2	5552.9	5742.3	5883.0	5950.8	5871.6	5638.7	5344.3	5255.4	5268.3
37.5°	5920.2	5907.2	6014.0	6182.2	6298.6	6340.8	6232.3	5955.8	5629.0	5523.8	5543.3
40°	6421.6	6415.1	6531.6	6693.4	6756.4	6782.3	6622.1	6319.6	5957.3	5844.1	5881.3
42.5°	6876.1	6871.3	7028.1	7207.7	7283.8	7254.6	7052.4	6706.3	6337.5	6208.0	6240.4
45°	7240.1	7233.5	7426.0	7678.4	7827.2	7778.7	7506.9	7133.3	6722.5	6588.2	6618.9
47.5°	7519.9	7523.1	7730.1	8042.4	8302.8	8320.5	7971.2	7568.4	7146.2	6994.2	7039.5
50°	7722.0	7731.8	7953.4	8299.5	8655.4	8812.2	8445.1	8014.9	7584.6	7413.1	7464.9
52.5°	7772.2	7790.0	8056.9	8462.9	8881.8	9181.1	8927.1	8443.4	8000.3	7836.9	7879.0
55°	7505.4	7540.9	7879.0	8450.0	9020.9	9423.7	9350.9	8878.7	8419.2	8251.0	8297.9
57.5°	6892.3	6942.4	7337.1	8082.7	8990.2	9590.3	9679.3	9295.9	8838.2	8676.4	8713.6
60°	6033.4	6093.2	6471.7	7285.3	8556.7	9651.8	9910.6	9701.9	9223.2	9066.2	9100.2
62.5°	4737.8	4815.3	5268.3	6222.7	7641.2	9365.5	10107.9	10069.1	9569.3	9373.5	9396.2
65°	3039.3	3121.8	3599.0	4726.4	6420.0	8488.7	10169.4	10426.6	9934.8	9661.4	9695.5
67.5°	1832.7	1869.9	2106.1	2864.7	4692.4	7167.2	9648.5	10822.9	10361.8	10022.1	10048.1
70°	1172.7	1193.7	1334.4	1682.2	2652.7	5229.4	8357.7	10897.3	10879.5	10392.6	10389.4
72.5°	795.8	802.3	839.5	996.4	1501.1	2971.4	6164.3	9865.3	11202.9	10869.8	10818.1
75°	582.3	617.9	677.7	705.2	852.4	1484.9	3532.7	6931.0	9441.5	9587.0	9234.4
77.5°	433.5	435.1	517.6	549.9	608.2	791.0	1494.6	3869.2	5861.9	6154.7	5489.9
80°	367.2	347.8	346.1	443.2	457.8	493.3	668.0	1336.1	2099.5	1272.9	962.5
82.5°	305.8	284.6	257.2	346.1	312.2	302.5	289.6	543.5	668.0	328.3	279.8
85°	213.5	203.8	194.1	226.4	177.9	152.0	139.1	254.0	281.5	139.1	122.9
87.5°	92.2	95.4	97.1	100.2	74.4	53.4	53.4	71.1	71.1	55.0	40.5
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)