

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: P970394

Luminaire Tested: **NAV-SB6B-740-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970394
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-740-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36632.5 lumens
Efficiency: N/A
Efficacy: 166.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 220.4
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

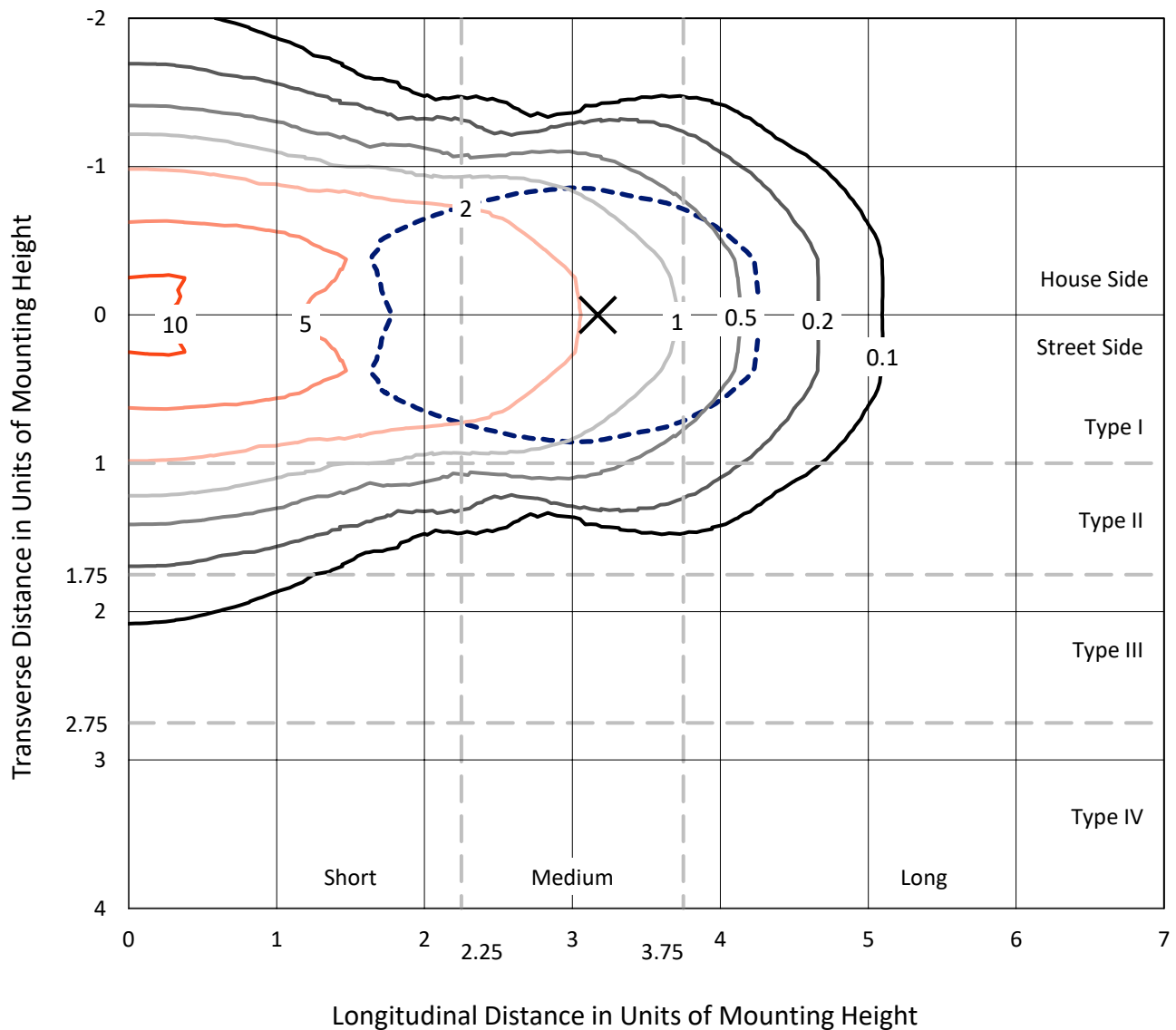


REPORT NUMBER: P970394

CATALOG NUMBER: NAV-SB6B-740-U-T1

Iso-Footcandle Lines of Horizontal Illumination

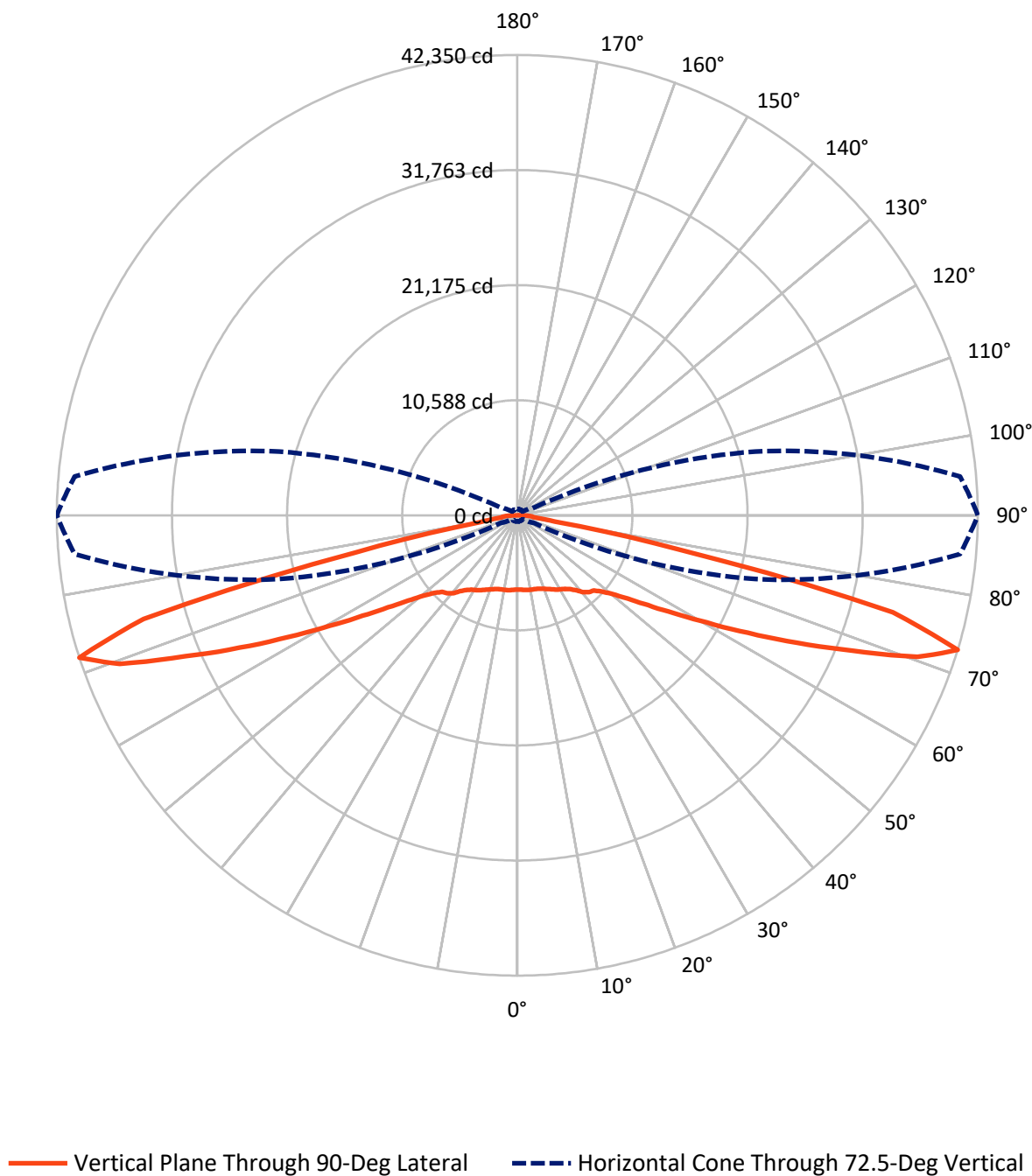
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
Type I - Short - N/A

REPORT NUMBER: P970394
CATALOG NUMBER: NAV-SB6B-740-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P970394

CATALOG NUMBER: NAV-SB6B-740-U-T1

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18316.2	0.0	18316.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18316.2	0.0	18316.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	36632.5	0.0	36632.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	663.7	1.8
10°-20°	2029.4	5.5
20°-30°	3383.8	9.2
30°-40°	4653.8	12.7
40°-50°	5683.6	15.5
50°-60°	6573.7	17.9
60°-70°	7838.0	21.4
70°-80°	5470.4	14.9
80°-90°	336.0	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°	36632.5	100.0
0°-180°	36632.5	100.0

Coefficient of Utilization



REPORT NUMBER: P970394

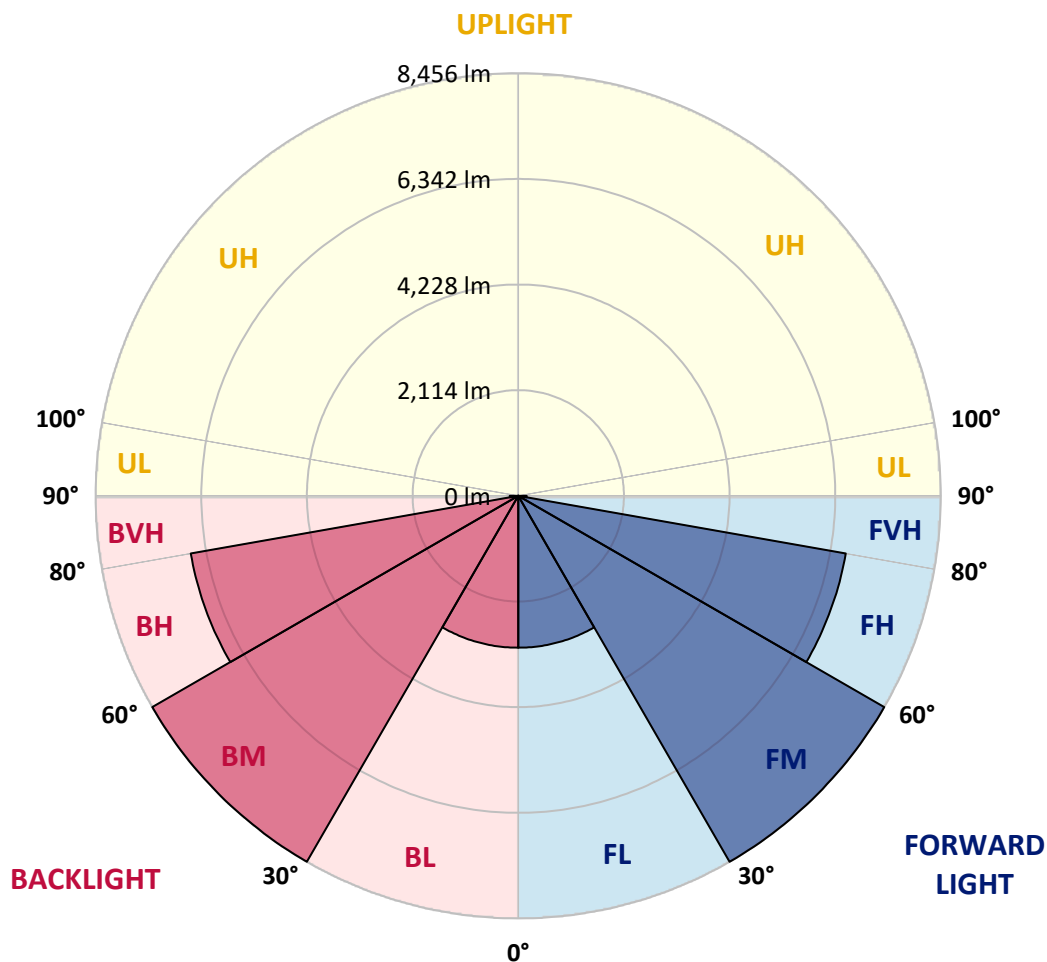
CATALOG NUMBER: NAV-SB6B-740-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3038.5	8.3			
FM	(30°-60°)	8455.5	23.1			
FH	(60°-80°)	6654.2	18.2			G3/7500
FVH	(80°-90°)	168.0	0.5			G2/225
BL	(0°-30°)	3038.5	8.3	B4/5000		
BM	(30°-60°)	8455.5	23.1	B4/8500		
BH	(60°-80°)	6654.2	18.2	B5		G5
BVH	(80°-90°)	168.0	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 I Short



REPORT NUMBER: P970394

CATALOG NUMBER: NAV-SB6B-740-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6845.2	6845.2	6845.2	6845.2	6845.2	6845.2	6845.2	6845.2	6845.2	6845.2	6845.2
2.5°	6851.0	6858.8	6858.8	6852.9	6866.6	6854.9	6854.9	6849.0	6854.9	6849.0	6849.0
5°	6886.1	6895.8	6899.7	6897.7	6915.3	6905.5	6905.5	6897.7	6899.7	6893.8	6893.8
7.5°	6952.3	6965.9	6973.7	6983.4	7008.7	6997.1	6989.3	6965.9	6956.2	6940.6	6940.6
10°	6973.7	6989.3	7014.6	7065.1	7123.5	7125.5	7102.1	7043.7	6999.0	6964.0	6958.1
12.5°	6907.5	6928.9	6981.5	7084.6	7215.1	7267.7	7230.7	7133.3	7045.6	6983.4	6973.7
15°	6823.7	6847.1	6927.0	7082.6	7275.4	7398.0	7394.1	7265.7	7125.5	7028.2	7012.6
17.5°	6693.4	6716.7	6831.5	7049.5	7322.2	7524.6	7579.2	7446.7	7250.1	7119.6	7098.2
20°	6457.7	6479.1	6638.8	6944.5	7337.8	7658.9	7801.1	7684.2	7438.9	7261.8	7228.7
22.5°	6152.0	6185.2	6372.1	6763.4	7300.8	7799.1	8054.1	7974.3	7658.9	7413.6	7368.8
25°	5825.0	5860.0	6078.1	6541.4	7205.3	7900.4	8354.0	8303.3	7908.2	7602.5	7540.2
27.5°	5542.7	5579.7	5817.2	6321.5	7057.3	7939.3	8649.9	8675.2	8209.9	7810.8	7744.6
30°	5320.8	5355.8	5608.9	6144.3	6866.6	7900.4	8908.8	9084.1	8517.5	7991.8	7896.5
32.5°	5077.4	5122.2	5388.9	5928.2	6640.8	7806.9	9134.7	9526.0	8873.8	8186.6	8065.8
35°	4769.8	4810.7	5091.1	5632.3	6344.9	7657.0	9323.5	10016.6	9383.9	8482.5	8348.1
37.5°	4396.0	4435.0	4713.4	5262.3	6050.9	7446.7	9467.6	10569.5	9991.3	8908.8	8729.7
40°	4020.3	4057.3	4318.1	4849.6	5698.5	7178.1	9518.3	11110.7	10688.3	9494.9	9304.0
42.5°	3675.6	3708.8	3948.2	4442.8	5303.2	6835.4	9452.0	11581.9	11313.2	9903.7	9658.4
45°	3358.3	3387.5	3599.7	4061.2	4892.4	6418.8	9253.4	12088.0	12056.9	10195.7	9864.7
47.5°	2996.2	3025.4	3245.5	3691.2	4481.7	5930.1	8916.6	12586.5	13090.7	10857.6	10476.0
50°	2554.3	2579.6	2805.4	3264.9	4055.3	5410.4	8449.4	12977.7	14395.1	11860.3	11381.4
52.5°	2030.6	2057.8	2277.9	2737.3	3549.2	4851.5	7834.2	13232.9	15902.0	13324.3	12734.4
55°	1510.7	1530.2	1721.0	2133.7	2922.3	4215.0	7063.2	13304.8	17611.3	15325.7	14587.8
57.5°	1096.0	1107.7	1230.4	1538.0	2215.5	3418.7	6126.7	13118.0	19645.8	17891.7	16963.0
60°	887.8	891.6	928.6	1065.0	1540.0	2519.2	4995.6	12475.5	21853.5	21199.4	20029.3
62.5°	806.0	806.0	815.7	852.7	1041.6	1662.7	3627.0	11143.8	24220.9	25379.3	23812.1
65°	749.6	749.6	753.5	771.0	821.5	1059.1	2289.5	8975.0	26216.4	30275.6	28293.7
67.5°	698.9	700.9	698.9	704.8	734.0	782.6	1327.8	6198.8	27291.1	35349.2	33209.6
70°	646.4	650.3	640.5	640.5	663.9	665.8	831.3	3399.2	26399.5	39601.1	39038.5
72.5°	584.0	589.9	574.3	570.4	587.9	580.2	624.9	1631.5	22665.3	40870.4	42350.0
75°	529.5	537.3	502.2	492.5	492.5	486.7	508.1	837.1	14710.5	33340.0	35660.7
77.5°	480.8	496.4	440.0	408.9	401.1	383.6	414.7	512.0	6434.3	15652.8	15327.6
80°	397.2	418.6	362.1	325.1	311.5	292.0	327.1	358.2	1913.8	3634.8	3481.0
82.5°	295.9	305.7	257.0	231.6	220.0	206.3	245.3	249.2	623.0	1286.9	1454.3
85°	188.8	192.7	157.6	136.3	130.5	124.6	155.8	136.3	237.5	946.2	1374.5
87.5°	66.2	76.0	60.4	54.5	58.4	48.7	72.1	40.9	66.2	667.8	827.4
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)