

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: P883945

Luminaire Tested: **NAV-SB4C-740-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883945
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4C-740-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32371 lumens
Efficiency: N/A
Efficacy: 161.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

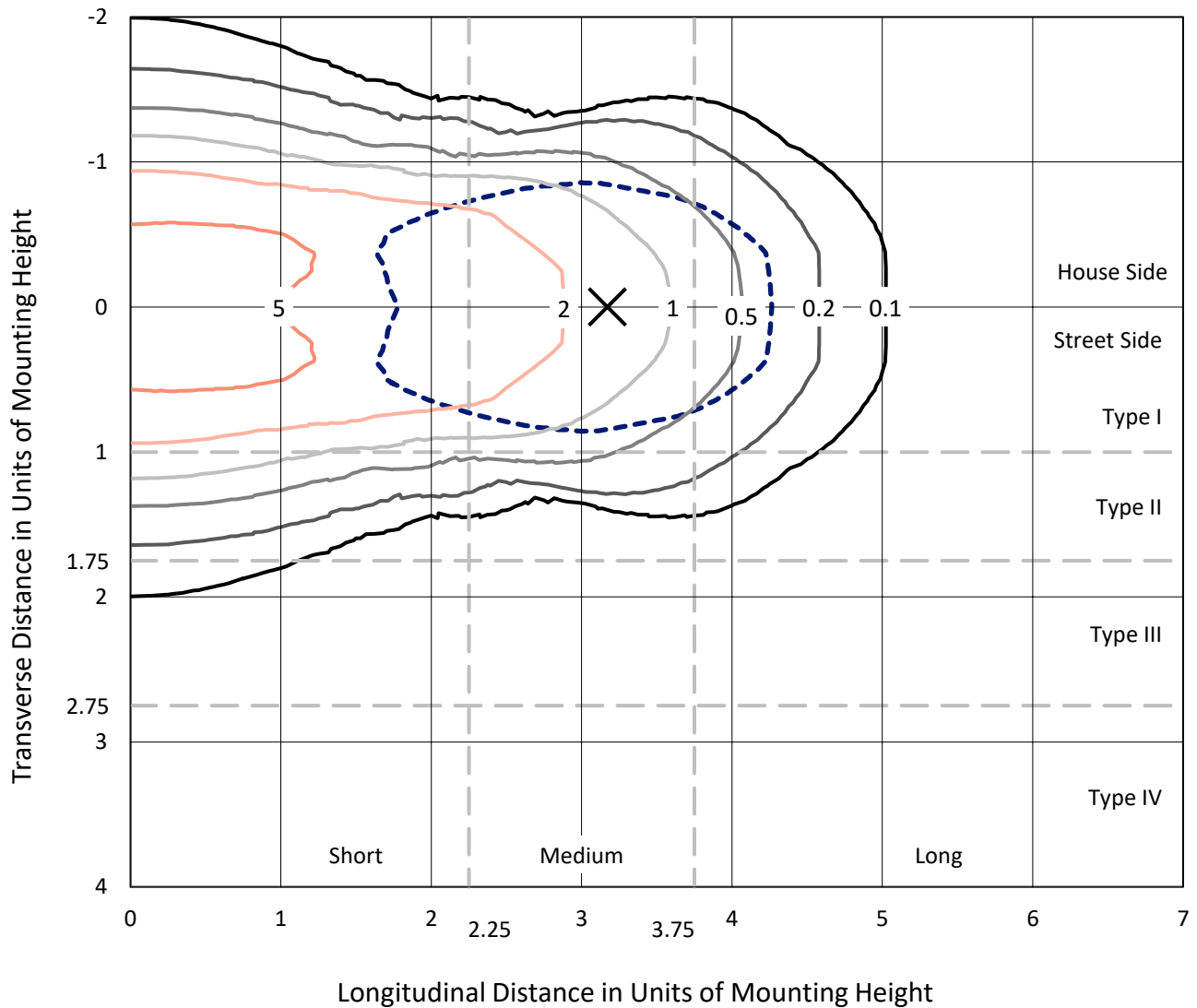
Input Watts (W): 200.7
Input Voltage (V): 120.0
Input Current (Ain): 1.714
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P883945
 CATALOG NUMBER: NAV-SB4C-740-U-T1

Iso-Footcandle Lines of Horizontal Illumination

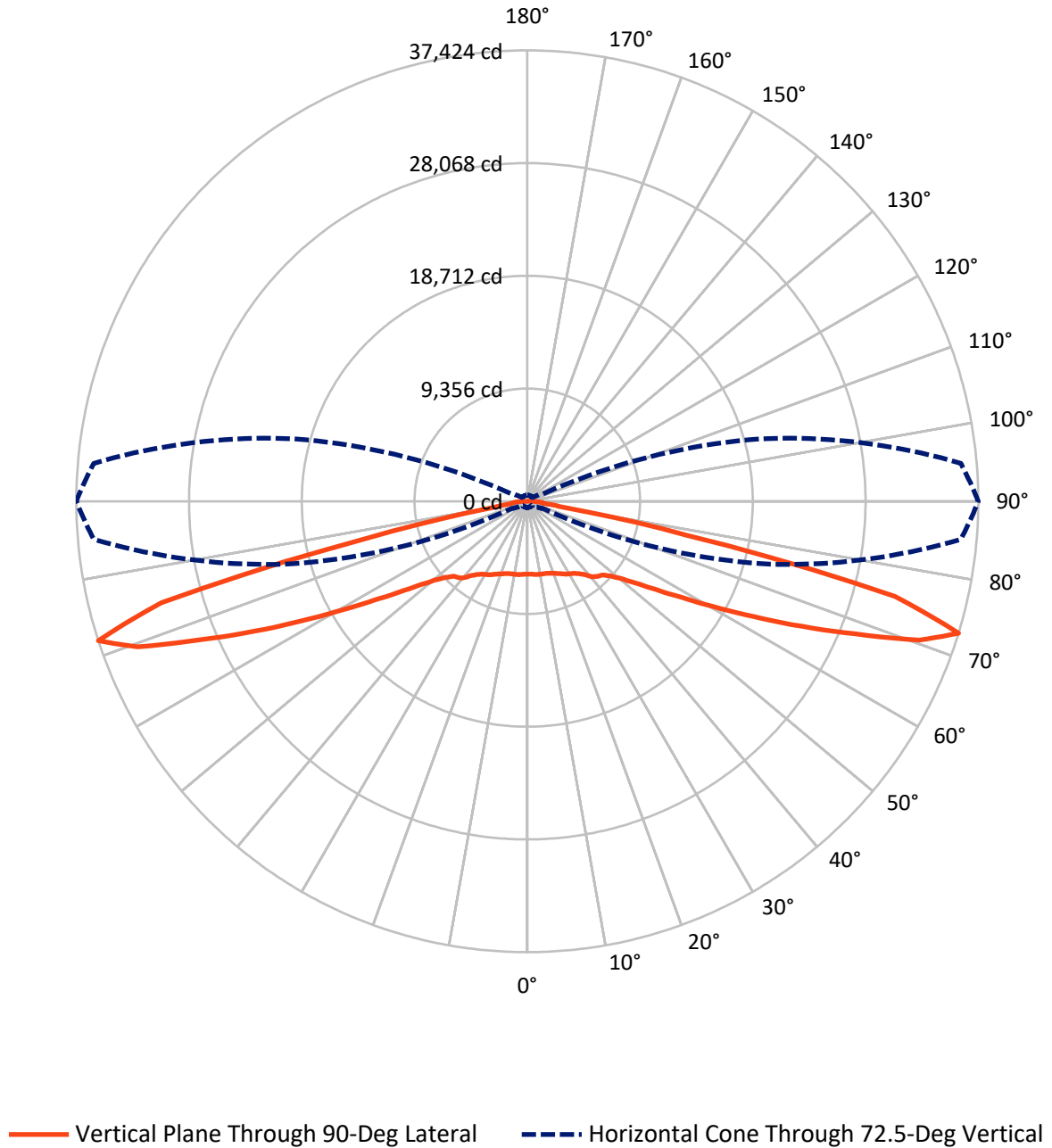
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type I - Short - N/A

REPORT NUMBER: P883945
CATALOG NUMBER: NAV-SB4C-740-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P883945
 CATALOG NUMBER: NAV-SB4C-740-U-T1

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16185.5	0.0	16185.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16185.5	0.0	16185.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	32371.0	0.0	32371.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	586.5	1.8
10°-20°	1793.3	5.5
20°-30°	2990.2	9.2
30°-40°	4112.4	12.7
40°-50°	5022.4	15.5
50°-60°	5808.9	17.9
60°-70°	6926.2	21.4
70°-80°	4834.1	14.9
80°-90°	296.9	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°	32371.0	100.0
0°-180°	32371.0	100.0



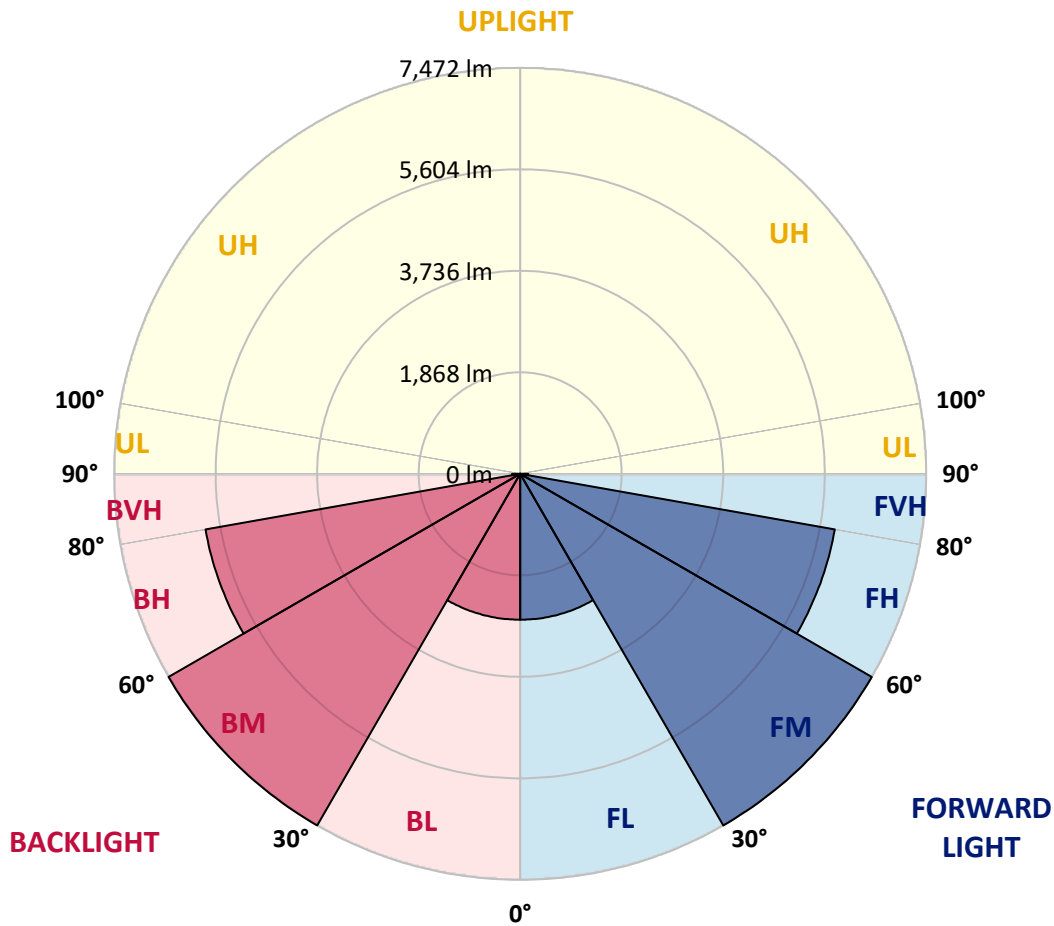
REPORT NUMBER: P883945
 CATALOG NUMBER: NAV-SB4C-740-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2685.0	8.3			
FM (30°-60°)	7471.9	23.1			
FH (60°-80°)	5880.1	18.2			G3/7500
FVH (80°-90°)	148.5	0.5			G2/225
BL (0°-30°)	2685.0	8.3	B4/5000		
BM (30°-60°)	7471.9	23.1	B4/8500		
BH (60°-80°)	5880.1	18.2	B5		G5
BVH (80°-90°)	148.5	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: P883945
 CATALOG NUMBER: NAV-SB4C-740-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6048.9	6048.9	6048.9	6048.9	6048.9	6048.9	6048.9	6048.9	6048.9	6048.9	6048.9
2.5°	6054.0	6060.9	6060.9	6055.7	6067.8	6057.5	6057.5	6052.3	6057.5	6052.3	6052.3
5°	6085.0	6093.6	6097.0	6095.3	6110.8	6102.2	6102.2	6095.3	6097.0	6091.9	6091.9
7.5°	6143.5	6155.5	6162.4	6171.0	6193.4	6183.1	6176.2	6155.5	6146.9	6133.2	6133.2
10°	6162.4	6176.2	6198.5	6243.3	6294.9	6296.6	6276.0	6224.3	6184.8	6153.8	6148.6
12.5°	6103.9	6122.8	6169.3	6260.5	6375.7	6422.2	6389.5	6303.5	6226.1	6171.0	6162.4
15°	6029.9	6050.6	6121.1	6258.7	6429.1	6537.5	6534.0	6420.5	6296.6	6210.6	6196.8
17.5°	5914.7	5935.3	6036.8	6229.5	6470.4	6649.3	6697.4	6580.5	6406.7	6291.4	6272.5
20°	5706.5	5725.4	5866.5	6136.6	6484.1	6768.0	6893.6	6790.3	6573.6	6417.0	6387.8
22.5°	5436.4	5465.7	5630.8	5976.6	6451.4	6891.9	7117.2	7046.7	6768.0	6551.2	6511.6
25°	5147.4	5178.3	5371.0	5780.5	6367.1	6981.3	7382.2	7337.4	6988.2	6718.1	6663.0
27.5°	4897.9	4930.6	5140.5	5586.1	6236.4	7015.7	7643.7	7666.0	7254.9	6902.2	6843.7
30°	4701.8	4732.8	4956.4	5429.5	6067.8	6981.3	7872.5	8027.3	7526.7	7062.2	6977.9
32.5°	4486.8	4526.3	4762.0	5238.6	5868.2	6898.7	8072.0	8417.8	7841.5	7234.2	7127.5
35°	4214.9	4251.1	4498.8	4977.1	5606.7	6766.3	8238.9	8851.4	8292.2	7495.7	7377.0
37.5°	3884.6	3919.0	4165.0	4650.2	5346.9	6580.5	8366.2	9340.0	8829.0	7872.5	7714.2
40°	3552.6	3585.3	3815.8	4285.5	5035.6	6343.0	8410.9	9818.2	9444.9	8390.3	8221.7
42.5°	3248.1	3277.3	3488.9	3925.9	4686.3	6040.3	8352.5	10234.6	9997.1	8751.6	8534.8
45°	2967.7	2993.5	3181.0	3588.7	4323.3	5672.1	8177.0	10681.9	10654.3	9009.6	8717.2
47.5°	2647.7	2673.5	2867.9	3261.8	3960.3	5240.3	7879.3	11122.3	11567.8	9594.6	9257.4
50°	2257.1	2279.5	2479.1	2885.1	3583.6	4780.9	7466.5	11468.1	12720.5	10480.6	10057.4
52.5°	1794.4	1818.4	2012.8	2418.9	3136.3	4287.2	6922.8	11693.4	14052.1	11774.3	11253.0
55°	1335.0	1352.2	1520.8	1885.5	2582.3	3724.6	6241.5	11757.1	15562.6	13542.8	12890.8
57.5°	968.6	978.9	1087.3	1359.1	1957.8	3021.0	5414.0	11591.9	17360.4	15810.3	14989.7
60°	784.5	787.9	820.6	941.0	1360.8	2226.2	4414.5	11024.2	19311.3	18733.2	17699.3
62.5°	712.2	712.2	720.8	753.5	920.4	1469.2	3205.1	9847.5	21403.3	22426.9	21042.0
65°	662.3	662.3	665.8	681.3	726.0	935.9	2023.2	7931.0	23166.7	26753.7	25002.3
67.5°	617.6	619.3	617.6	622.8	648.6	691.6	1173.3	5477.7	24116.3	31237.0	29346.3
70°	571.2	574.6	566.0	566.0	586.7	588.4	734.6	3003.8	23328.4	34994.3	34497.1
72.5°	516.1	521.3	507.5	504.1	519.6	512.7	552.2	1441.7	20028.7	36116.0	37423.5
75°	467.9	474.8	443.9	435.3	435.3	430.1	449.0	739.8	12999.2	29461.5	31512.2
77.5°	424.9	438.7	388.8	361.3	354.4	338.9	366.4	452.5	5685.9	13831.9	13544.6
80°	351.0	369.9	320.0	287.3	275.3	258.1	289.0	316.6	1691.1	3212.0	3076.0
82.5°	261.5	270.1	227.1	204.7	194.4	182.4	216.8	220.2	550.5	1137.2	1285.1
85°	166.9	170.3	139.4	120.4	115.3	110.1	137.6	120.4	209.9	836.1	1214.6
87.5°	58.5	67.1	53.3	48.2	51.6	43.0	63.7	36.1	58.5	590.1	731.2
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)