

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: P967697

Luminaire Tested: **NAV-SB5A-730-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967697
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-SB5A-730-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22976.4 lumens
Efficiency: N/A
Efficacy: 162.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

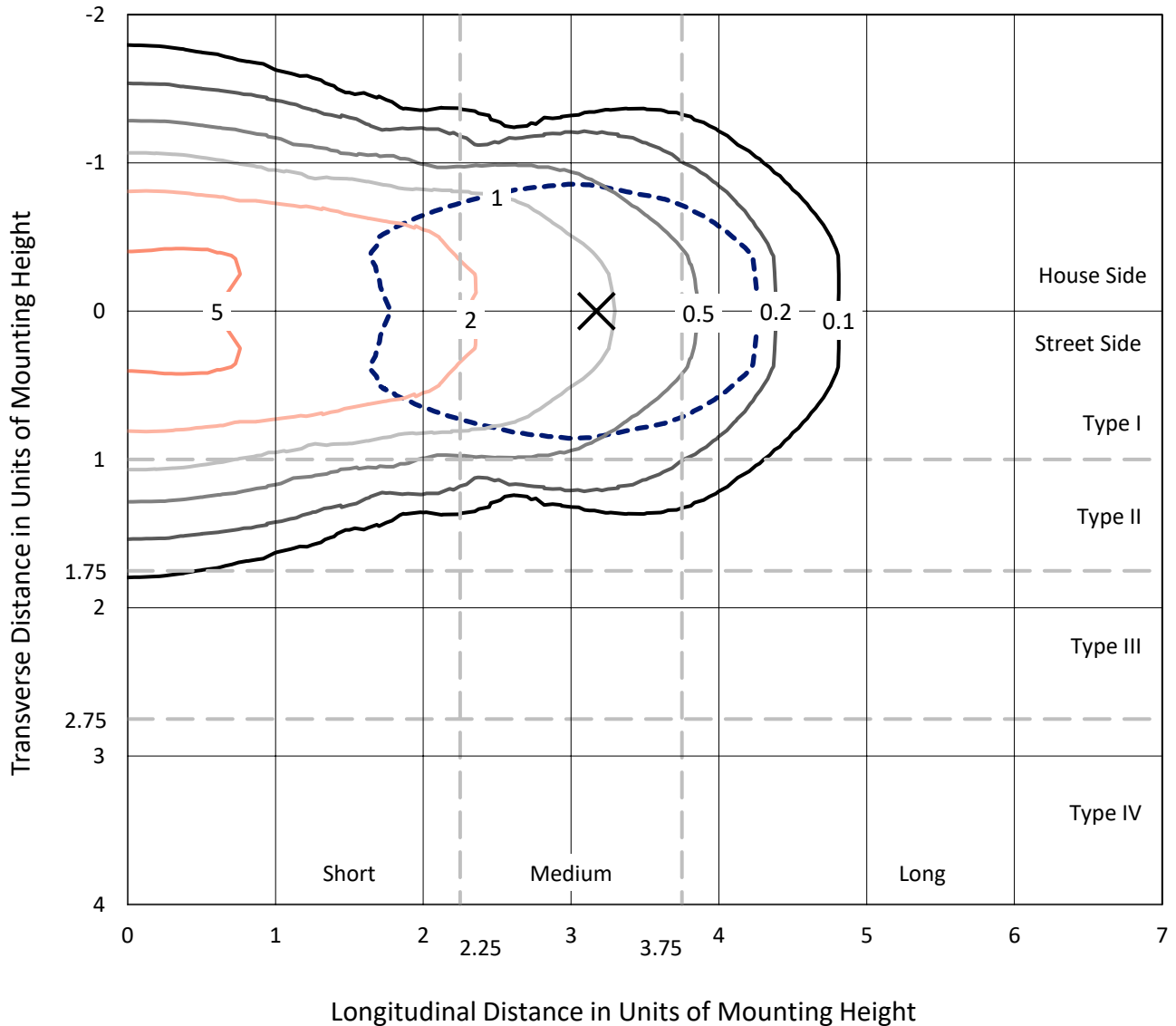
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P967697
 CATALOG NUMBER: NAV-SB5A-730-U-T1

Iso-Footcandle Lines of Horizontal Illumination

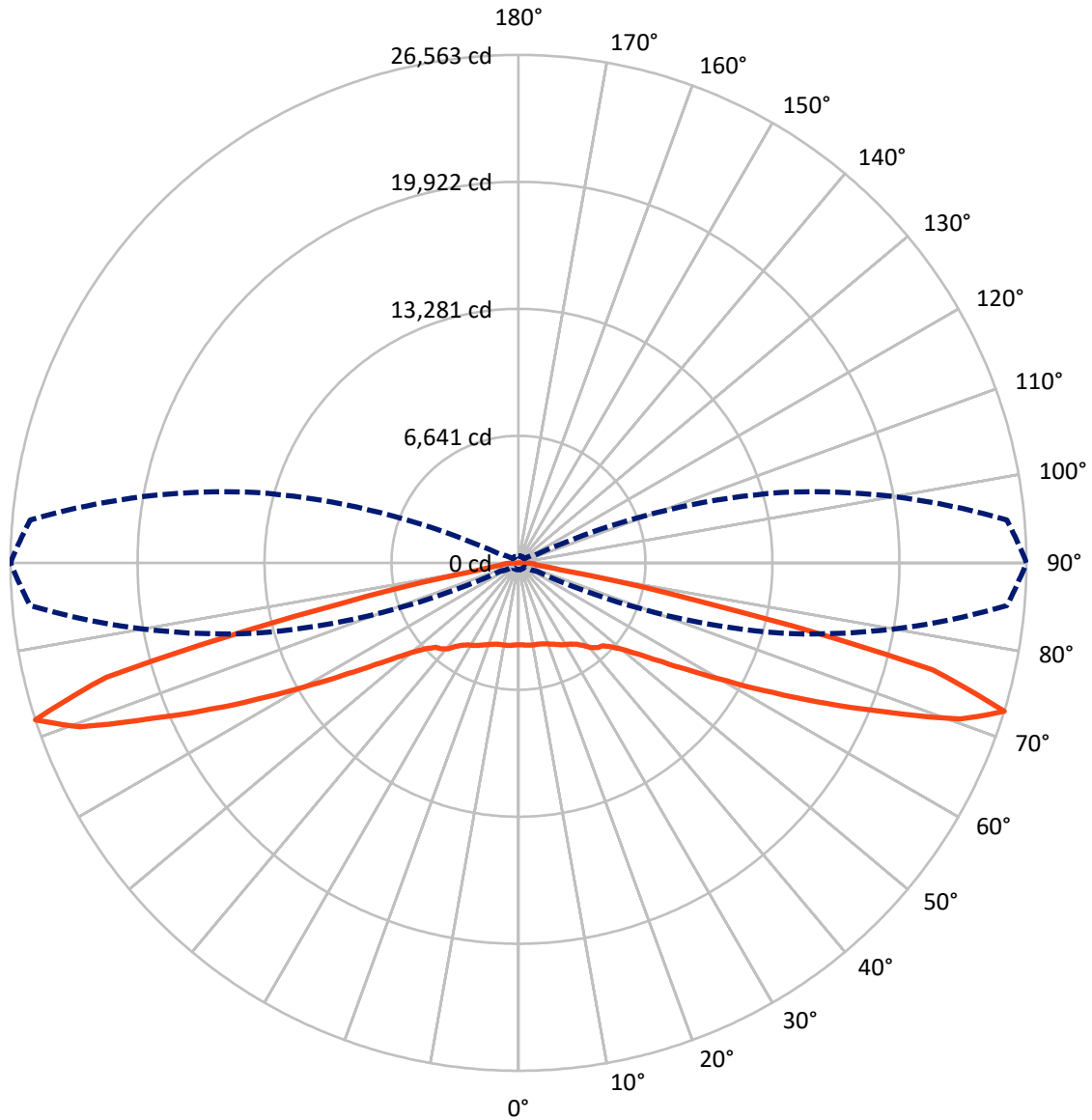
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type I - Short - N/A

REPORT NUMBER: P967697
CATALOG NUMBER: NAV-SB5A-730-U-T1

Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P967697
 CATALOG NUMBER: NAV-SB5A-730-U-T1

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11488.2	0.0	11488.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11488.2	0.0	11488.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	22976.4	0.0	22976.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.3	1.8
10°-20°	1272.9	5.5
20°-30°	2122.4	9.2
30°-40°	2918.9	12.7
40°-50°	3564.8	15.5
50°-60°	4123.1	17.9
60°-70°	4916.1	21.4
70°-80°	3431.1	14.9
80°-90°	210.7	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°	22976.4	100.0
0°-180°	22976.4	100.0

Coefficient of Utilization

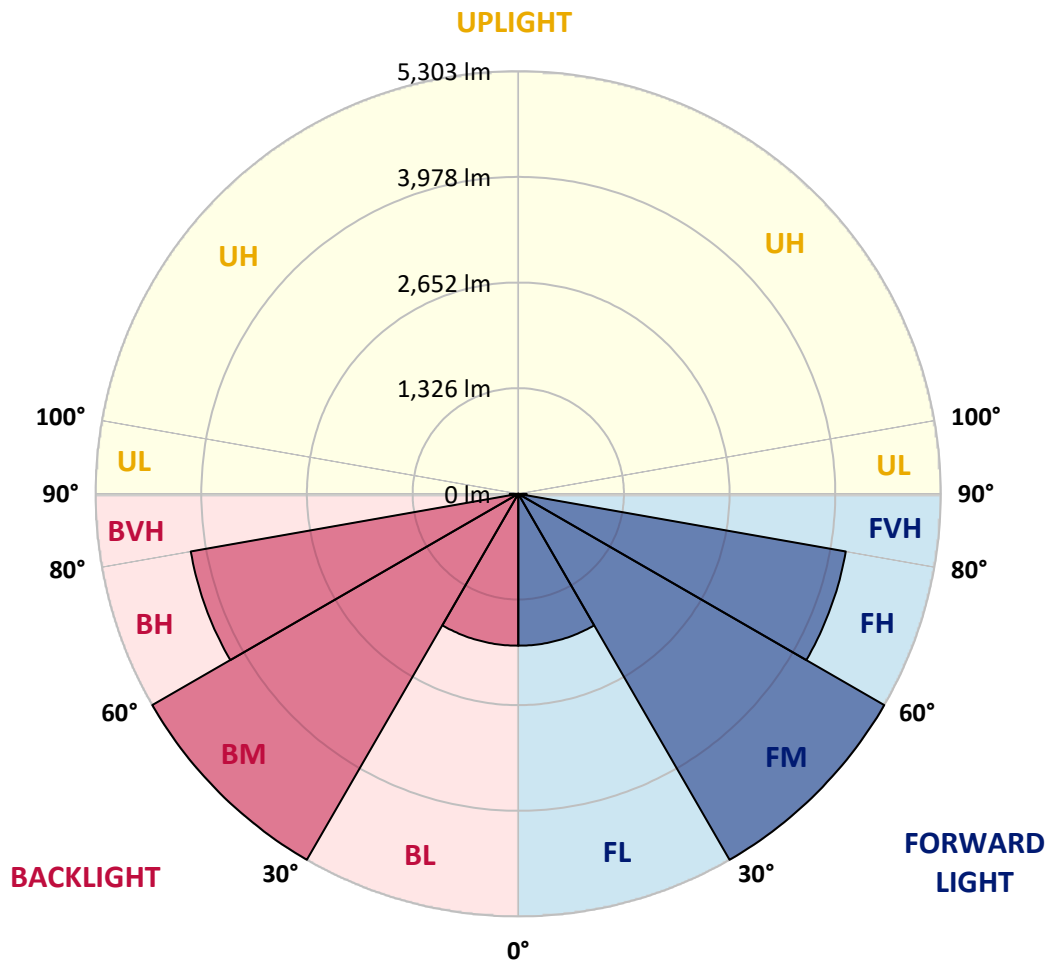


REPORT NUMBER: P967697
 CATALOG NUMBER: NAV-SB5A-730-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1905.8	8.3			
FM (30°-60°)	5303.4	23.1			
FH (60°-80°)	4173.6	18.2			G2/5000
FVH (80°-90°)	105.4	0.5			G2/225
BL (0°-30°)	1905.8	8.3	B3/2500		
BM (30°-60°)	5303.4	23.1	B4/8500		
BH (60°-80°)	4173.6	18.2	B4/5000		G4/5000
BVH (80°-90°)	105.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type I Short



REPORT NUMBER: P967697
 CATALOG NUMBER: NAV-SB5A-730-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4293.4	4293.4	4293.4	4293.4	4293.4	4293.4	4293.4	4293.4	4293.4	4293.4	4293.4
2.5°	4297.0	4301.9	4301.9	4298.2	4306.8	4299.5	4299.5	4295.8	4299.5	4295.8	4295.8
5°	4319.0	4325.1	4327.5	4326.3	4337.4	4331.2	4331.2	4326.3	4327.5	4323.9	4323.9
7.5°	4360.6	4369.1	4374.0	4380.0	4395.9	4388.6	4383.7	4369.1	4363.0	4353.2	4353.2
10°	4374.0	4383.7	4399.6	4431.4	4468.0	4469.2	4454.5	4418.0	4389.9	4367.8	4364.2
12.5°	4332.5	4345.9	4378.9	4443.6	4525.4	4558.4	4535.1	4474.1	4419.2	4380.0	4374.0
15°	4280.0	4294.6	4344.7	4442.3	4563.2	4640.2	4637.7	4557.2	4469.2	4408.1	4398.4
17.5°	4198.1	4212.8	4284.8	4421.6	4592.5	4719.5	4753.7	4670.7	4547.4	4465.5	4452.1
20°	4050.4	4063.8	4164.0	4355.6	4602.4	4803.8	4892.9	4819.7	4665.8	4554.7	4534.0
22.5°	3858.7	3879.4	3996.7	4242.1	4579.1	4891.7	5051.7	5001.6	4803.8	4649.9	4621.8
25°	3653.5	3675.5	3812.3	4102.9	4519.3	4955.3	5239.7	5208.0	4960.1	4768.4	4729.3
27.5°	3476.5	3499.7	3648.7	3964.9	4426.5	4979.7	5425.3	5441.2	5149.4	4899.1	4857.6
30°	3337.3	3359.2	3518.0	3853.8	4306.8	4955.3	5587.8	5697.7	5342.3	5012.7	4952.8
32.5°	3184.7	3212.8	3380.0	3718.3	4165.2	4896.6	5729.4	5974.8	5565.7	5134.7	5059.0
35°	2991.7	3017.3	3193.2	3532.7	3979.6	4802.5	5847.8	6282.5	5885.7	5320.4	5236.1
37.5°	2757.2	2781.6	2956.3	3300.6	3795.2	4670.7	5938.2	6629.4	6266.6	5587.8	5475.4
40°	2521.6	2544.8	2708.4	3041.8	3574.2	4502.2	5969.9	6968.8	6703.8	5955.2	5835.6
42.5°	2305.4	2326.2	2476.4	2786.6	3326.2	4287.3	5928.4	7264.3	7095.8	6211.7	6057.9
45°	2106.4	2124.7	2257.8	2547.2	3068.6	4026.0	5803.9	7581.8	7562.2	6394.9	6187.3
47.5°	1879.2	1897.6	2035.5	2315.2	2811.0	3719.4	5592.6	7894.4	8210.7	6810.1	6570.8
50°	1602.1	1618.0	1759.6	2047.7	2543.5	3393.5	5299.6	8139.8	9028.8	7438.9	7138.5
52.5°	1273.6	1290.7	1428.6	1716.9	2226.1	3043.0	4913.7	8299.8	9974.0	8357.2	7987.2
55°	947.6	959.8	1079.4	1338.3	1832.9	2643.7	4430.2	8345.0	11046.0	9612.4	9149.7
57.5°	687.5	694.8	771.7	964.6	1389.6	2144.3	3842.8	8227.8	12322.1	11221.9	10639.4
60°	556.8	559.2	582.5	667.9	965.9	1580.1	3133.3	7824.8	13706.8	13296.5	12562.7
62.5°	505.5	505.5	511.7	534.8	653.3	1042.8	2274.9	6989.6	15191.7	15918.2	14935.3
65°	470.2	470.2	472.5	483.6	515.3	664.3	1436.0	5629.3	16443.4	18989.4	17746.2
67.5°	438.4	439.6	438.4	442.1	460.3	490.9	832.8	3887.9	17117.4	22171.5	20829.5
70°	405.4	407.8	401.7	401.7	416.4	417.6	521.4	2132.0	16558.1	24838.4	24485.5
72.5°	366.3	370.0	360.2	357.8	368.8	363.9	392.0	1023.3	14216.0	25634.5	26562.6
75°	332.1	337.0	315.1	308.9	308.9	305.2	318.7	525.1	9226.6	20911.3	22366.8
77.5°	301.7	311.4	275.9	256.5	251.5	240.6	260.1	321.1	4035.7	9817.7	9613.7
80°	249.1	262.5	227.1	203.9	195.4	183.2	205.1	224.7	1200.4	2279.8	2183.4
82.5°	185.6	191.7	161.2	145.3	138.0	129.5	153.9	156.3	390.7	807.2	912.1
85°	118.5	120.8	98.9	85.5	81.8	78.1	97.7	85.5	148.9	593.5	862.1
87.5°	41.5	47.7	37.8	34.2	36.6	30.5	45.2	25.6	41.5	418.8	519.0
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)