

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: P884584

Luminaire Tested: **NAV-SB5C-722-U-SL4**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884584
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-722-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30019 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 249.5
Input Voltage (V): 120.0
Input Current (Ain): 2.116
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 7.885
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P884584
 CATALOG NUMBER: NAV-SB5C-722-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

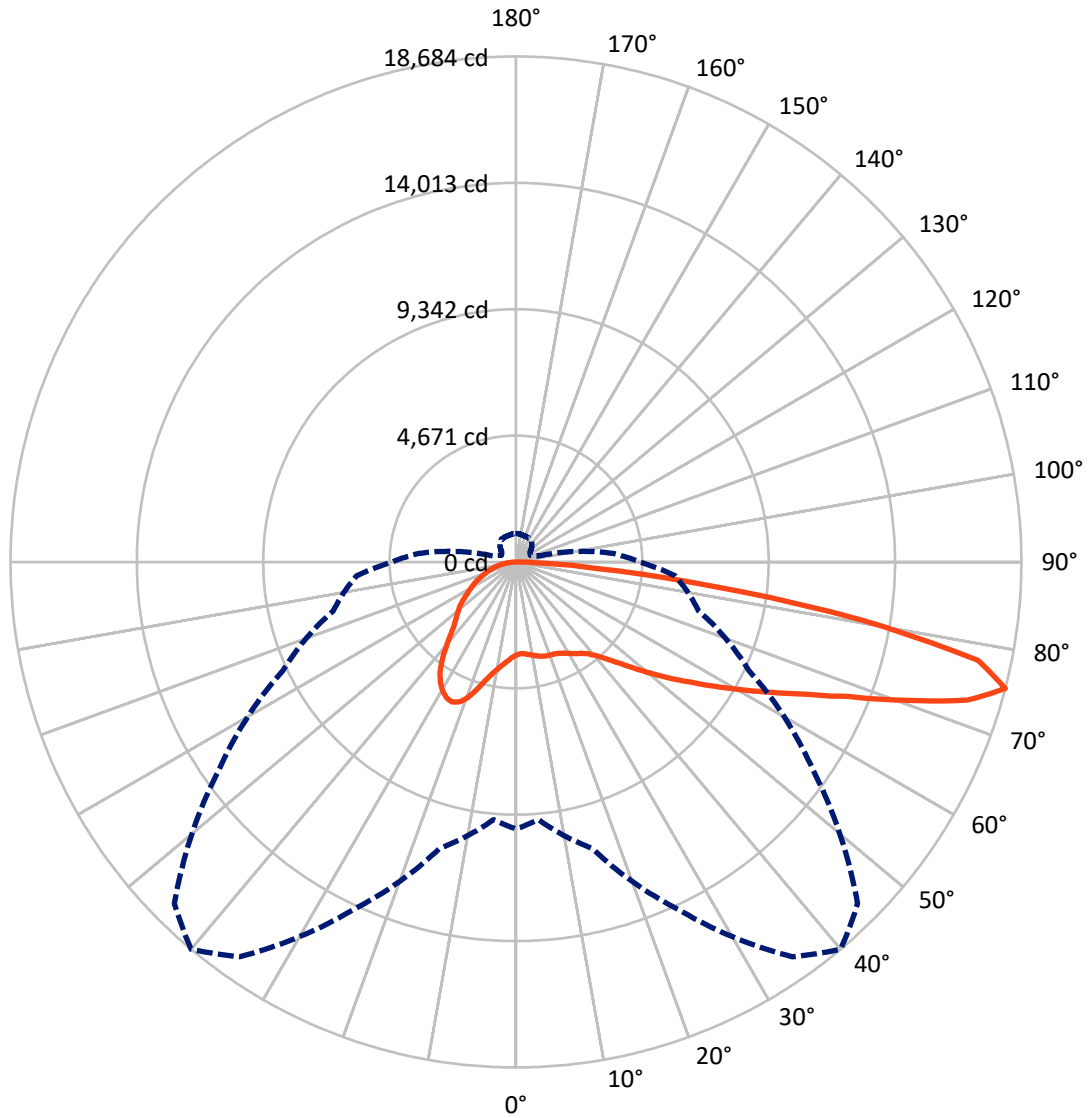
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P884584
CATALOG NUMBER: NAV-SB5C-722-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P884584

CATALOG NUMBER: NAV-SB5C-722-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9300.9	0.0	9300.9
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	20718.1	0.0	20718.1
	% Fixture	69.0	0.0	69.0
Total	Lumens	30019.0	0.0	30019.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.7	1.1
10°-20°	1150.4	3.8
20°-30°	2100.6	7.0
30°-40°	2979.2	9.9
40°-50°	4022.8	13.4
50°-60°	5411.8	18.0
60°-70°	6868.8	22.9
70°-80°	6233.9	20.8
80°-90°	908.7	3.0
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°	30019.0	100.0
0°-180°	30019.0	100.0

Coefficient of Utilization



REPORT NUMBER: P884584

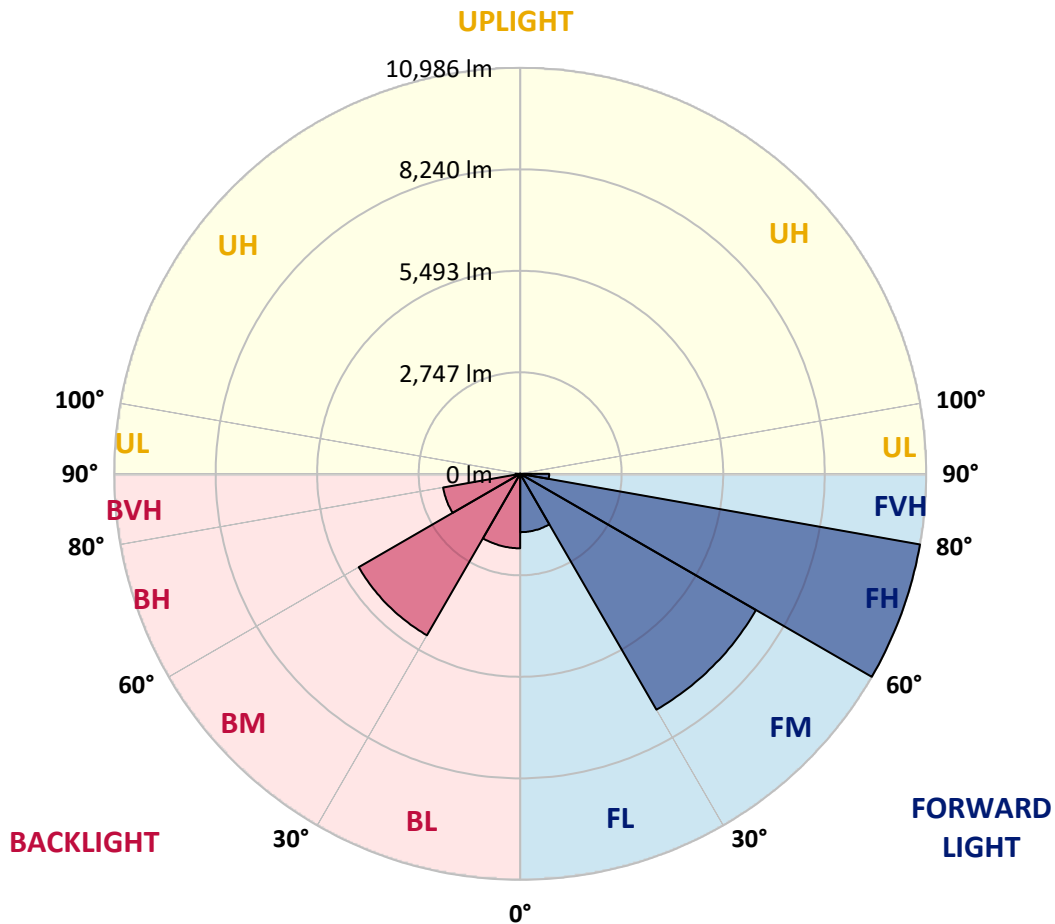
CATALOG NUMBER: NAV-SB5C-722-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1579.0	5.3			
FM (30°-60°)	7369.0	24.5			
FH (60°-80°)	10986.5	36.6			G4/12000
FVH (80°-90°)	783.6	2.6			G5
BL (0°-30°)	2014.7	6.7	B3/2500		
BM (30°-60°)	5044.9	16.8	B4/8500		
BH (60°-80°)	2116.2	7.0	B3/2500		G3/2500
BVH (80°-90°)	125.1	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



REPORT NUMBER: P884584

CATALOG NUMBER: NAV-SB5C-722-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3432.7	3432.7	3432.7	3432.7	3432.7	3432.7	3432.7	3432.7	3432.7	3432.7	3432.7
2.5°	3380.2	3399.3	3394.5	3388.1	3388.1	3389.7	3388.1	3399.3	3410.4	3421.6	3439.1
5°	3415.2	3434.3	3424.8	3416.8	3410.4	3408.8	3404.1	3402.5	3408.8	3423.2	3447.0
7.5°	3483.7	3502.8	3488.4	3474.1	3461.4	3455.0	3448.6	3439.1	3434.3	3442.3	3475.7
10°	3560.1	3579.2	3561.7	3536.2	3515.5	3507.5	3501.2	3491.6	3485.3	3490.0	3526.7
12.5°	3636.5	3655.6	3631.7	3596.7	3569.6	3564.9	3556.9	3553.7	3552.1	3550.5	3587.2
15°	3708.2	3724.1	3693.8	3652.4	3623.8	3615.8	3607.9	3612.6	3620.6	3630.1	3671.5
17.5°	3763.9	3779.8	3735.2	3681.1	3654.0	3650.8	3646.1	3662.0	3684.3	3708.2	3759.1
20°	3814.8	3830.8	3773.4	3700.2	3668.4	3668.4	3669.9	3703.4	3735.2	3770.3	3840.3
22.5°	3886.5	3899.2	3829.2	3728.9	3682.7	3685.9	3698.6	3732.0	3771.8	3819.6	3916.7
25°	3993.2	4002.7	3916.7	3783.0	3730.4	3740.0	3751.1	3767.1	3805.3	3861.0	3991.6
27.5°	4165.1	4173.1	4060.0	3878.5	3798.9	3814.8	3830.8	3819.6	3837.1	3884.9	4052.1
30°	4407.1	4411.9	4268.6	4028.2	3915.1	3923.1	3926.3	3880.1	3846.7	3884.9	4095.1
32.5°	4693.7	4692.1	4521.8	4209.7	4047.3	4039.3	4012.3	3921.5	3843.5	3876.9	4133.3
35°	5137.9	5120.4	4900.7	4464.4	4197.0	4147.6	4083.9	3967.7	3859.4	3869.0	4166.7
37.5°	5873.5	5819.4	5515.3	4881.6	4419.9	4294.1	4200.1	4042.5	3894.4	3865.8	4206.5
40°	6703.0	6634.6	6300.2	5453.2	4754.2	4552.0	4400.8	4149.2	3951.8	3880.1	4265.4
42.5°	7687.0	7589.9	7230.0	6126.7	5177.7	4884.8	4657.1	4284.5	4036.1	3926.3	4345.0
45°	8895.4	8766.5	8257.0	6886.1	5711.1	5321.0	5016.9	4489.9	4165.1	4015.4	4464.4
47.5°	10116.6	10148.5	9424.0	7755.4	6351.2	5859.2	5467.5	4798.8	4353.0	4158.7	4657.1
50°	11414.2	11436.5	10584.7	8718.7	7077.2	6467.4	5973.8	5144.3	4614.1	4362.5	4945.3
52.5°	12426.9	12430.0	11638.7	9726.5	7833.5	7136.1	6519.9	5539.1	4916.6	4633.2	5329.0
55°	13060.5	13052.6	12377.5	10680.3	8702.8	7838.2	7124.9	5988.1	5286.0	4951.6	5811.4
57.5°	13520.7	13496.8	12887.0	11500.2	9629.4	8667.8	7809.6	6497.6	5722.2	5330.6	6446.7
60°	13695.8	13681.5	13232.5	12208.7	10603.8	9584.8	8599.3	7067.6	6217.4	5778.0	7263.5
62.5°	13762.7	13789.8	13571.6	12895.0	11646.7	10600.6	9467.0	7749.1	6774.7	6284.3	8124.8
65°	13998.3	14047.7	14003.1	13792.9	12824.9	11790.0	10618.2	8559.5	7382.9	6827.2	9024.4
67.5°	14464.8	14514.2	14533.3	14867.7	14264.2	13272.3	12054.3	9568.9	8094.6	7390.8	9701.1
70°	14453.7	14439.4	14776.9	15722.7	16066.6	15324.6	13990.4	10810.8	8943.2	7858.9	9787.1
72.5°	13156.1	13041.4	13839.1	15713.1	17566.4	17467.7	16354.7	12412.5	9675.6	7916.3	8492.6
75°	9869.8	9564.1	10973.2	14160.7	17816.4	18684.1	17857.7	13406.0	9502.1	6994.4	5910.1
77.5°	4220.8	3913.5	5574.2	10482.8	15945.6	17466.1	16478.9	11696.1	7585.1	4625.2	2902.5
80°	1105.0	1103.4	1684.5	4752.6	10844.3	12898.1	11315.5	7553.2	4333.9	1652.7	800.9
82.5°	457.0	445.8	619.4	1848.5	5298.7	7238.0	5906.9	3369.0	1565.1	447.4	265.9
85°	170.4	168.8	300.9	638.5	1869.2	2985.3	2160.6	861.4	390.1	218.1	119.4
87.5°	47.8	46.2	65.3	221.3	455.4	691.0	369.4	141.7	109.9	86.0	35.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P884584

CATALOG NUMBER: NAV-SB5C-722-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3432.7	3432.7	3432.7	3432.7	3432.7	3432.7	3432.7	3432.7	3432.7	3432.7	3432.7
2.5°	3443.9	3451.8	3466.1	3477.3	3491.6	3507.5	3529.8	3544.2	3558.5	3568.0	3561.7
5°	3458.2	3475.7	3512.3	3548.9	3591.9	3631.7	3677.9	3711.3	3738.4	3746.4	3749.6
7.5°	3490.0	3518.7	3580.8	3642.9	3711.3	3776.6	3843.5	3900.8	3947.0	3964.5	3966.1
10°	3545.8	3584.0	3671.5	3759.1	3849.9	3950.2	4036.1	4118.9	4184.2	4211.3	4212.9
12.5°	3615.8	3663.6	3778.2	3899.2	4025.0	4163.5	4275.0	4376.9	4458.1	4494.7	4494.7
15°	3706.6	3768.7	3915.1	4077.5	4262.2	4454.9	4596.6	4709.6	4800.4	4845.0	4841.8
17.5°	3805.3	3888.1	4072.8	4318.0	4582.3	4835.4	5001.0	5083.8	5177.7	5220.7	5219.1
20°	3900.8	4002.7	4267.0	4623.7	4975.5	5244.6	5378.3	5400.6	5407.0	5411.8	5424.5
22.5°	3999.5	4136.5	4510.6	5009.0	5386.3	5572.6	5591.7	5496.2	5362.4	5300.3	5317.8
25°	4107.8	4289.3	4829.0	5434.1	5739.8	5762.1	5615.6	5383.1	5130.0	5013.7	5031.2
27.5°	4212.9	4466.0	5211.2	5840.1	5994.5	5798.7	5483.4	5153.8	4848.1	4725.6	4739.9
30°	4318.0	4668.2	5633.1	6195.1	6110.7	5707.9	5274.9	4907.1	4599.8	4470.8	4485.1
32.5°	4424.6	4903.9	6118.7	6451.5	6090.0	5515.3	5015.3	4630.0	4359.4	4224.0	4241.5
35°	4545.6	5193.6	6578.8	6591.6	5951.5	5231.9	4673.0	4298.9	4063.2	3954.9	3978.8
37.5°	4703.3	5561.4	6984.8	6626.6	5709.5	4816.3	4247.9	3907.2	3712.9	3663.6	3698.6
40°	4899.1	6004.1	7295.3	6570.9	5351.3	4311.6	3783.0	3510.7	3400.9	3412.0	3450.2
42.5°	5153.8	6499.2	7513.4	6427.6	4852.9	3791.0	3375.4	3254.4	3306.9	3351.5	3392.9
45°	5485.0	7013.5	7648.8	6184.0	4289.3	3349.9	3135.0	3163.6	3203.4	3208.2	3240.1
47.5°	5908.5	7534.1	7737.9	5816.2	3714.5	3039.4	2982.1	2988.5	2980.5	2947.1	2972.6
50°	6437.1	8040.4	7817.5	5329.0	3225.7	2845.2	2768.8	2746.5	2636.6	2528.4	2542.7
52.5°	7039.0	8505.4	7851.0	4724.0	2845.2	2682.8	2558.6	2418.5	2213.1	2179.7	2190.8
55°	7707.7	8935.2	7765.0	3980.4	2525.2	2474.2	2286.4	2117.6	2095.3	2066.6	2071.4
57.5°	8506.9	9398.6	7589.9	3150.9	2197.2	2230.6	2047.5	2066.6	2026.8	1982.2	1974.3
60°	9381.0	9877.8	7282.6	2394.6	1858.1	1926.5	1985.4	1983.8	1972.7	1936.1	1923.3
62.5°	10167.6	10193.1	6677.5	1834.2	1560.3	1690.9	1851.7	1850.1	1840.5	1819.8	1811.9
65°	10635.7	10145.3	5668.1	1444.1	1315.1	1496.6	1670.2	1682.9	1684.5	1682.9	1682.9
67.5°	10552.9	9586.4	4282.9	1149.5	1112.9	1299.2	1490.3	1507.8	1520.5	1523.7	1526.9
70°	9616.7	8358.9	2792.7	917.1	933.0	1125.7	1319.9	1337.4	1348.6	1361.3	1367.7
72.5°	7495.9	6145.8	1598.5	741.9	775.4	976.0	1151.1	1171.8	1178.2	1202.1	1211.6
75°	4567.9	3614.2	863.0	584.3	636.9	834.3	984.0	1007.8	1019.0	1047.6	1050.8
77.5°	2171.7	1565.1	492.0	455.4	512.7	681.4	831.1	858.2	827.9	843.8	831.1
80°	734.0	581.1	310.5	347.1	391.7	531.8	665.5	692.6	628.9	625.7	619.4
82.5°	256.3	235.6	197.4	230.9	253.2	380.5	503.1	538.2	468.1	466.5	444.2
85°	100.3	95.5	109.9	125.8	151.3	234.0	331.2	348.7	288.2	232.5	229.3
87.5°	20.7	22.3	27.1	28.7	46.2	81.2	119.4	146.5	116.2	98.7	90.8
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)