

## Nuura Goniophotometer Test Report

### Product Info

Luminaire: **Miira 3 Circle / opal**

Lamp: **G9 E3light LED, 1.5W / 100 Lumen**

Manufacturer: **Nuura**

Nuber of Lamps: **3**

Lumens per Lamp: **0 lm**

Luminous Length: **540 mm**

Luminous Width: **0 mm**

Luminous Height: **245 mm**

### Electric Parameters

Voltage: **231.10 V** Current: **0.0220 A** Power: **4.27 W** Power Factor: **0.825** Frequency: **49.99 Hz**

### Photometric Parameters

CIE Class: **General Diffuse**

Measurement Flux: **265.3 lm**

Upward Ratio: **46.33 %**

Maximum Intensity: **24.80 cd**

Central Intensity: **21.19 cd**

Luminaire Efficacy Rating (LER): **62**

Beam Angle (C0-C180,C90-C270): **360.0 °, 360.0 °**

Field Angle (C0-C180,C90-C270): **360.0 °, 360.0 °**

Total Rated Lamp Lumens: **265.3 lm**

Efficiency: **100.00 %**

Downward Ratio: **53.67 %**

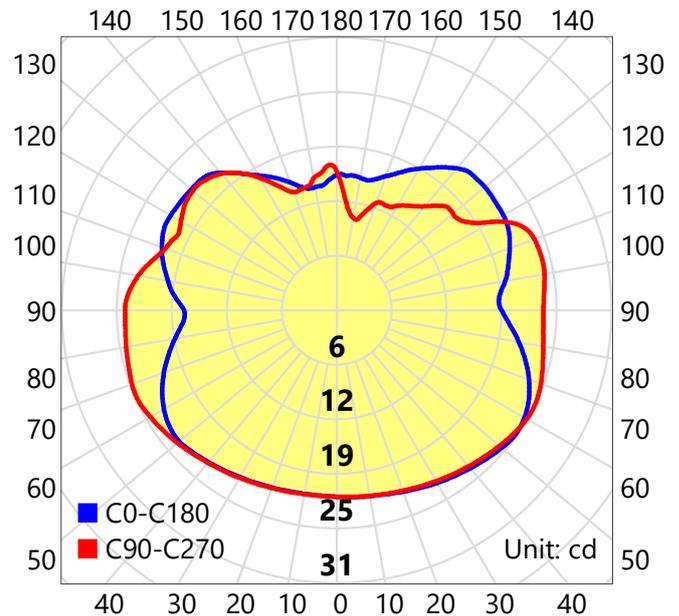
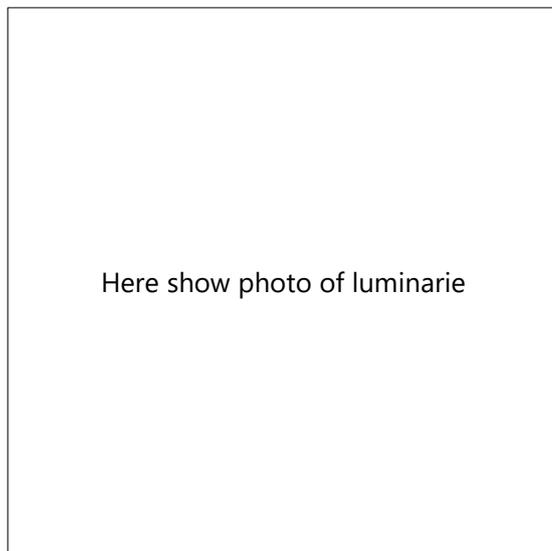
Position Of Maximum Intensity: **C90° γ64°**

S/MH(C0-C180,C90-C270): **1.64, 1.63**

Energy Efficiency Class: **G (EU 2019/2015 η<sub>TM</sub>:62lm/W)**

Beam Angle (C45-C225,C135-C315): **360.0 °, 360.0 °**

Field Angle (C45-C225,C135-C315): **360.0 °, 360.0 °**



Average Beam Angle (50%): 360.0°

Test Type: Type C Test Distance: 6.119 m

Test Device: Lisun LSG-1700B

Test Lab:

Test By: P. Nellemose

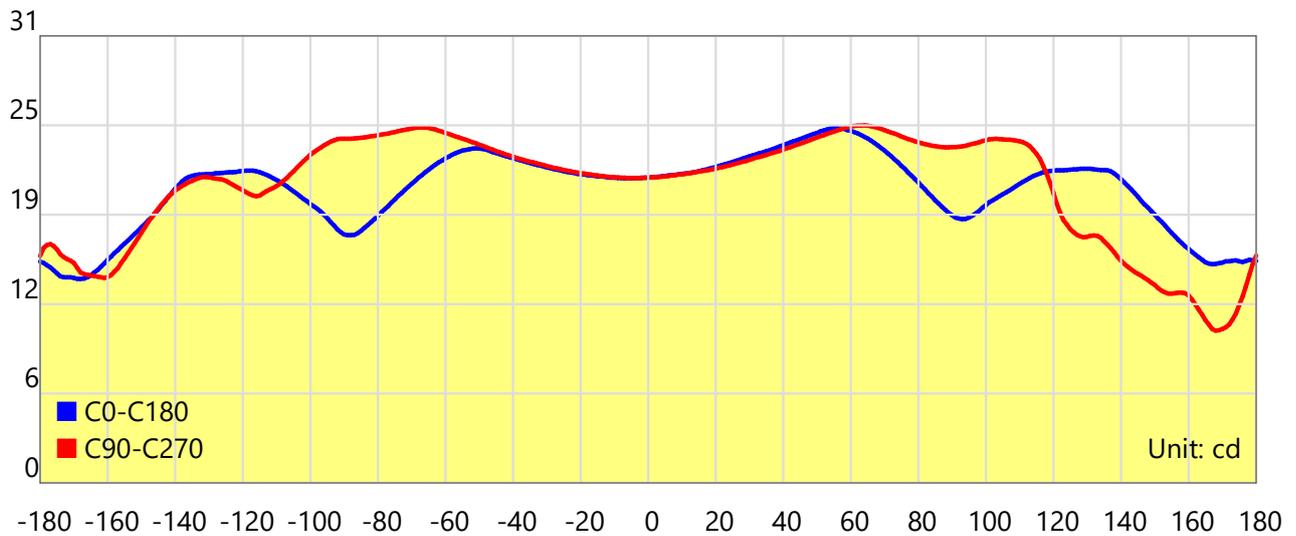
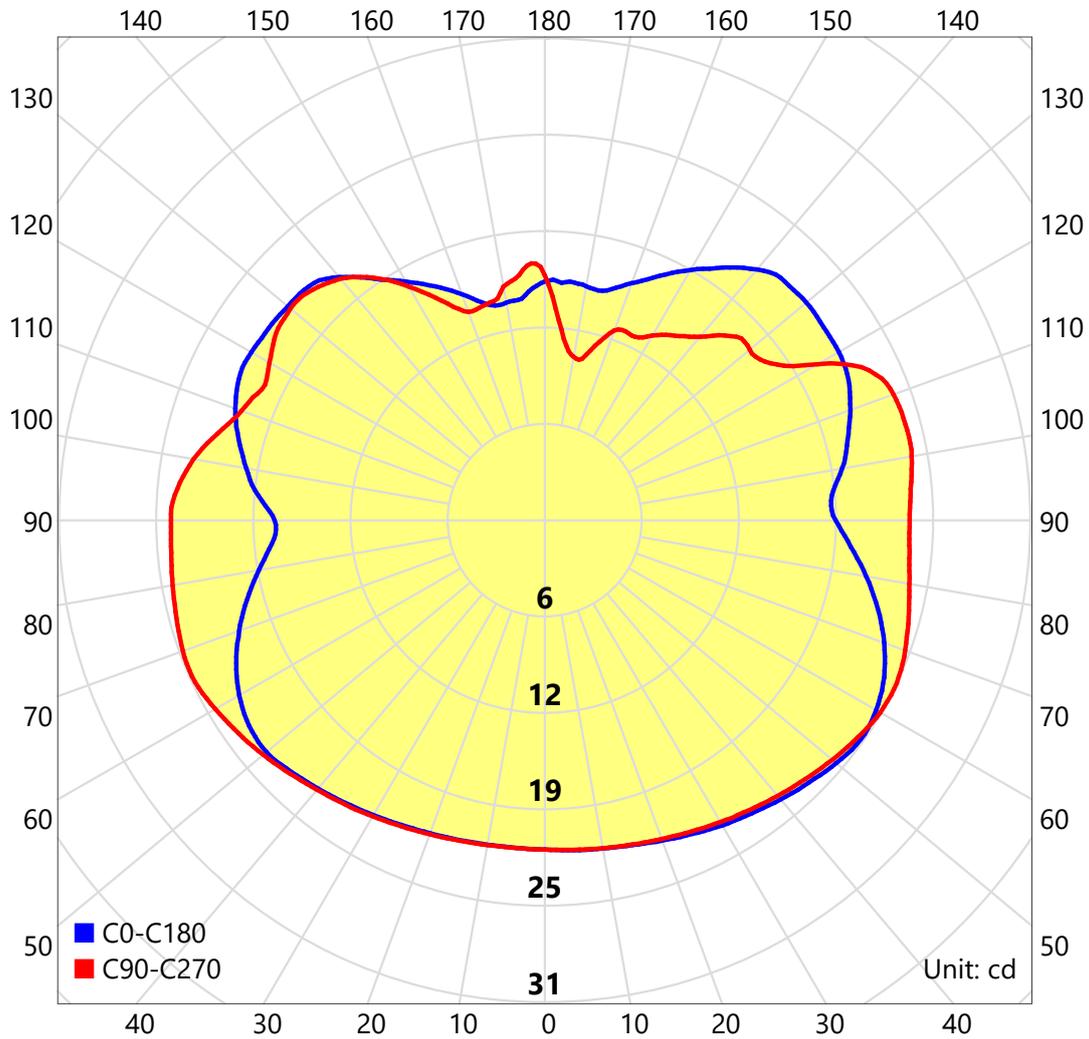
C Plane (°): 0.0-360.0:45.0 γ (°): 0.0-180.0:1.0

Temperature: 23.0°C

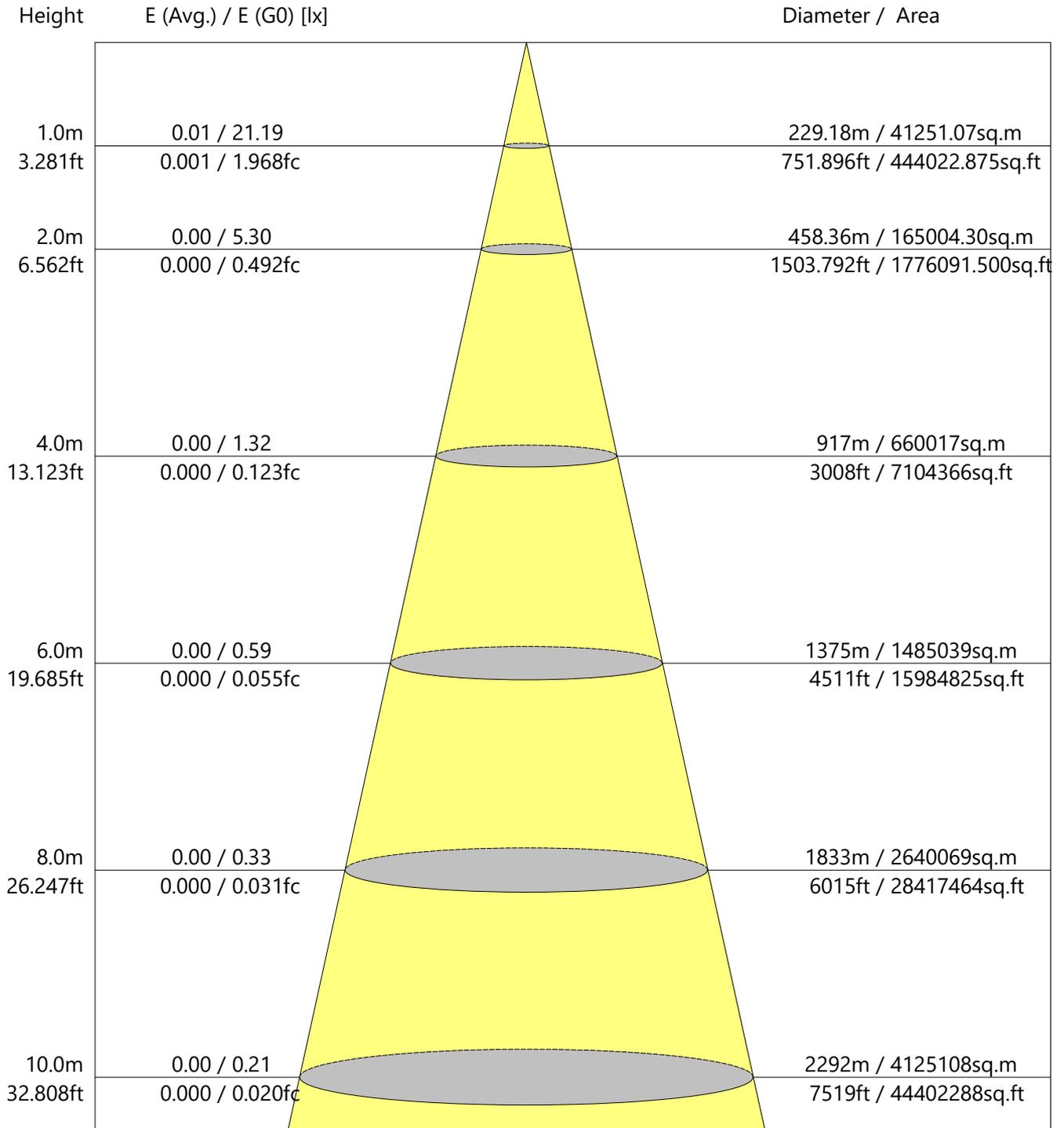
Humidity: 75.0%

Review By:

## Light Distribution Curve



## Average Illuminance Effective Figure



Beam Angle: 179° Flux Out: 265.34lm

Test Type : Type C

Test Distance : 6.119 m

C Plane (°): 0.0-360.0:45.0

γ (°): 0.0-180.0:1.0

Test Device : Lisun LSG-1700B

Temperature : 23.0°C

Humidity : 75.0%

Test Lab :

Test By : P. Nellemose

Review By :

## Zonal Flux

Gamma °	lmean cd	Zonal Flux lm	Sum Zonal Flux lm	Rel Zonal Flux %	Sum Rel Zonal Flux %
0.0-1.0	21.2	0.0	0.0	0.01	0.01
1.0-2.0	21.2	0.1	0.1	0.02	0.03
2.0-3.0	21.2	0.1	0.2	0.04	0.07
3.0-4.0	21.2	0.1	0.3	0.05	0.12
4.0-5.0	21.2	0.2	0.5	0.07	0.19
5.0-6.0	21.2	0.2	0.7	0.08	0.28
6.0-7.0	21.2	0.3	1.0	0.10	0.37
7.0-8.0	21.3	0.3	1.3	0.11	0.49
8.0-9.0	21.3	0.3	1.6	0.13	0.62
9.0-10.0	21.3	0.4	2.0	0.15	0.76
10.0-11.0	21.3	0.4	2.5	0.16	0.93
11.0-12.0	21.3	0.5	2.9	0.18	1.10
12.0-13.0	21.4	0.5	3.4	0.19	1.29
13.0-14.0	21.4	0.5	4.0	0.21	1.50
14.0-15.0	21.4	0.6	4.6	0.22	1.72
15.0-16.0	21.5	0.6	5.2	0.24	1.96
16.0-17.0	21.5	0.7	5.9	0.25	2.21
17.0-18.0	21.6	0.7	6.6	0.27	2.48
18.0-19.0	21.6	0.8	7.3	0.28	2.76
19.0-20.0	21.6	0.8	8.1	0.30	3.06
20.0-21.0	21.7	0.8	9.0	0.31	3.37
21.0-22.0	21.7	0.9	9.8	0.33	3.70
22.0-23.0	21.8	0.9	10.7	0.34	4.05
23.0-24.0	21.8	1.0	11.7	0.36	4.41
24.0-25.0	21.9	1.0	12.7	0.38	4.78
25.0-26.0	21.9	1.0	13.7	0.39	5.17
26.0-27.0	22.0	1.1	14.8	0.41	5.58
27.0-28.0	22.1	1.1	15.9	0.42	6.00
28.0-29.0	22.1	1.2	17.1	0.44	6.44
29.0-30.0	22.2	1.2	18.3	0.45	6.89
30.0-31.0	22.3	1.2	19.5	0.47	7.35
31.0-32.0	22.3	1.3	20.8	0.48	7.84
32.0-33.0	22.4	1.3	22.1	0.50	8.33
33.0-34.0	22.5	1.4	23.5	0.51	8.85
34.0-35.0	22.5	1.4	24.9	0.53	9.37
35.0-36.0	22.6	1.4	26.3	0.54	9.92
36.0-37.0	22.7	1.5	27.8	0.56	10.47
37.0-38.0	22.7	1.5	29.3	0.57	11.05
38.0-39.0	22.8	1.6	30.9	0.59	11.63
39.0-40.0	22.9	1.6	32.5	0.60	12.23

## Zonal Flux

Gamma °	lmean cd	Zonal Flux lm	Sum Zonal Flux lm	Rel Zonal Flux %	Sum Rel Zonal Flux %
40.0-41.0	23.0	1.6	34.1	0.62	12.85
41.0-42.0	23.0	1.7	35.8	0.63	13.48
42.0-43.0	23.1	1.7	37.5	0.65	14.13
43.0-44.0	23.2	1.8	39.2	0.66	14.79
44.0-45.0	23.3	1.8	41.0	0.67	15.46
45.0-46.0	23.4	1.8	42.9	0.69	16.15
46.0-47.0	23.5	1.9	44.7	0.70	16.85
47.0-48.0	23.5	1.9	46.6	0.72	17.57
48.0-49.0	23.6	1.9	48.6	0.73	18.30
49.0-50.0	23.7	2.0	50.5	0.74	19.05
50.0-51.0	23.8	2.0	52.6	0.76	19.81
51.0-52.0	23.8	2.0	54.6	0.77	20.58
52.0-53.0	23.9	2.1	56.7	0.78	21.36
53.0-54.0	24.0	2.1	58.8	0.80	22.16
54.0-55.0	24.0	2.1	60.9	0.81	22.96
55.0-56.0	24.0	2.2	63.1	0.82	23.78
56.0-57.0	24.0	2.2	65.3	0.83	24.61
57.0-58.0	24.0	2.2	67.5	0.84	25.45
58.0-59.0	24.0	2.2	69.8	0.85	26.29
59.0-60.0	24.0	2.3	72.0	0.85	27.15
60.0-61.0	23.9	2.3	74.3	0.86	28.01
61.0-62.0	23.9	2.3	76.6	0.87	28.87
62.0-63.0	23.8	2.3	78.9	0.87	29.75
63.0-64.0	23.8	2.3	81.3	0.88	30.63
64.0-65.0	23.7	2.3	83.6	0.88	31.51
65.0-66.0	23.6	2.4	86.0	0.89	32.40
66.0-67.0	23.5	2.4	88.3	0.89	33.29
67.0-68.0	23.4	2.4	90.7	0.89	34.18
68.0-69.0	23.3	2.4	93.1	0.90	35.08
69.0-70.0	23.2	2.4	95.5	0.90	35.98
70.0-71.0	23.1	2.4	97.8	0.90	36.88
71.0-72.0	22.9	2.4	100.2	0.90	37.77
72.0-73.0	22.8	2.4	102.6	0.90	38.67
73.0-74.0	22.7	2.4	105.0	0.90	39.57
74.0-75.0	22.5	2.4	107.4	0.90	40.47
75.0-76.0	22.4	2.4	109.7	0.90	41.36
76.0-77.0	22.2	2.4	112.1	0.89	42.25
77.0-78.0	22.1	2.4	114.5	0.89	43.15
78.0-79.0	22.0	2.4	116.8	0.89	44.04
79.0-80.0	21.8	2.4	119.2	0.89	44.92

Test Type : Type C      Test Distance : 6.119 m  
 Test Device : Lisun LSG-1700B  
 Test Lab :  
 Test By : P. Nellemose

C Plane (°): 0.0-360.0:45.0    γ (°): 0.0-180.0:1.0  
 Temperature : 23.0°C      Humidity : 75.0%  
 Review By :

## Zonal Flux

Gamma °	lmean cd	Zonal Flux lm	Sum Zonal Flux lm	Rel Zonal Flux %	Sum Rel Zonal Flux %
80.0-81.0	21.7	2.3	121.6	0.89	45.81
81.0-82.0	21.6	2.3	123.9	0.88	46.69
82.0-83.0	21.5	2.3	126.2	0.88	47.57
83.0-84.0	21.4	2.3	128.6	0.88	48.45
84.0-85.0	21.3	2.3	130.9	0.88	49.33
85.0-86.0	21.2	2.3	133.2	0.87	50.20
86.0-87.0	21.1	2.3	135.5	0.87	51.07
87.0-88.0	21.0	2.3	137.8	0.87	51.94
88.0-89.0	21.0	2.3	140.1	0.87	52.81
89.0-90.0	21.0	2.3	142.4	0.87	53.67
90.0-91.0	21.0	2.3	144.7	0.87	54.54
91.0-92.0	21.0	2.3	147.0	0.87	55.41
92.0-93.0	21.0	2.3	149.3	0.87	56.27
93.0-94.0	21.0	2.3	151.6	0.87	57.14
94.0-95.0	21.1	2.3	153.9	0.87	58.01
95.0-96.0	21.1	2.3	156.2	0.87	58.88
96.0-97.0	21.2	2.3	158.5	0.87	59.75
97.0-98.0	21.2	2.3	160.9	0.87	60.62
98.0-99.0	21.3	2.3	163.2	0.87	61.49
99.0-100.0	21.3	2.3	165.5	0.87	62.36
100.0-101.0	21.3	2.3	167.8	0.87	63.23
101.0-102.0	21.3	2.3	170.1	0.86	64.09
102.0-103.0	21.3	2.3	172.3	0.86	64.95
103.0-104.0	21.3	2.3	174.6	0.86	65.81
104.0-105.0	21.3	2.3	176.9	0.85	66.66
105.0-106.0	21.3	2.3	179.1	0.85	67.51
106.0-107.0	21.3	2.2	181.4	0.85	68.36
107.0-108.0	21.3	2.2	183.6	0.84	69.20
108.0-109.0	21.3	2.2	185.8	0.84	70.04
109.0-110.0	21.4	2.2	188.0	0.83	70.87
110.0-111.0	21.4	2.2	190.2	0.83	71.70
111.0-112.0	21.4	2.2	192.4	0.82	72.52
112.0-113.0	21.4	2.2	194.6	0.82	73.33
113.0-114.0	21.3	2.1	196.7	0.81	74.14
114.0-115.0	21.3	2.1	198.9	0.80	74.94
115.0-116.0	21.3	2.1	201.0	0.79	75.74
116.0-117.0	21.2	2.1	203.0	0.78	76.52
117.0-118.0	21.2	2.1	205.1	0.78	77.30
118.0-119.0	21.1	2.0	207.1	0.77	78.06
119.0-120.0	21.0	2.0	209.1	0.76	78.82

Test Type : Type C      Test Distance : 6.119 m  
 Test Device : Lisun LSG-1700B  
 Test Lab :  
 Test By : P. Nellemose

C Plane (°): 0.0-360.0:45.0    γ (°): 0.0-180.0:1.0  
 Temperature : 23.0°C      Humidity : 75.0%  
 Review By :

## Zonal Flux

Gamma °	lmean cd	Zonal Flux lm	Sum Zonal Flux lm	Rel Zonal Flux %	Sum Rel Zonal Flux %
120.0-121.0	21.0	2.0	211.1	0.75	79.57
121.0-122.0	20.9	2.0	213.1	0.74	80.30
122.0-123.0	20.8	1.9	215.0	0.73	81.03
123.0-124.0	20.8	1.9	216.9	0.72	81.75
124.0-125.0	20.8	1.9	218.8	0.71	82.45
125.0-126.0	20.8	1.9	220.6	0.70	83.15
126.0-127.0	20.7	1.8	222.5	0.69	83.84
127.0-128.0	20.7	1.8	224.3	0.68	84.52
128.0-129.0	20.6	1.8	226.0	0.67	85.18
129.0-130.0	20.5	1.7	227.8	0.65	85.84
130.0-131.0	20.4	1.7	229.5	0.64	86.48
131.0-132.0	20.3	1.7	231.1	0.63	87.11
132.0-133.0	20.1	1.6	232.8	0.61	87.72
133.0-134.0	19.9	1.6	234.3	0.60	88.32
134.0-135.0	19.7	1.5	235.9	0.58	88.90
135.0-136.0	19.5	1.5	237.4	0.57	89.46
136.0-137.0	19.3	1.5	238.8	0.55	90.01
137.0-138.0	19.0	1.4	240.2	0.53	90.54
138.0-139.0	18.7	1.4	241.6	0.51	91.05
139.0-140.0	18.4	1.3	242.9	0.49	91.55
140.0-141.0	18.1	1.3	244.2	0.48	92.02
141.0-142.0	17.8	1.2	245.4	0.46	92.48
142.0-143.0	17.5	1.2	246.6	0.44	92.92
143.0-144.0	17.3	1.1	247.7	0.42	93.35
144.0-145.0	17.0	1.1	248.8	0.41	93.76
145.0-146.0	16.7	1.0	249.8	0.39	94.15
146.0-147.0	16.4	1.0	250.8	0.37	94.52
147.0-148.0	16.1	1.0	251.8	0.36	94.88
148.0-149.0	15.9	0.9	252.7	0.34	95.22
149.0-150.0	15.6	0.9	253.5	0.33	95.55
150.0-151.0	15.3	0.8	254.4	0.31	95.86
151.0-152.0	15.1	0.8	255.1	0.30	96.16
152.0-153.0	14.9	0.8	255.9	0.28	96.44
153.0-154.0	14.6	0.7	256.6	0.27	96.71
154.0-155.0	14.4	0.7	257.3	0.26	96.97
155.0-156.0	14.3	0.6	257.9	0.24	97.21
156.0-157.0	14.1	0.6	258.6	0.23	97.45
157.0-158.0	14.0	0.6	259.1	0.22	97.67
158.0-159.0	13.9	0.6	259.7	0.21	97.88
159.0-160.0	13.7	0.5	260.2	0.20	98.08

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 Temperature : 23.0°C      Humidity : 75.0%  
 Review By :

## Zonal Flux

Gamma °	I <sub>mean</sub> cd	Zonal Flux lm	Sum Zonal Flux lm	Rel Zonal Flux %	Sum Rel Zonal Flux %
160.0-161.0	13.6	0.5	260.7	0.19	98.26
161.0-162.0	13.5	0.5	261.2	0.18	98.44
162.0-163.0	13.4	0.4	261.6	0.17	98.61
163.0-164.0	13.3	0.4	262.1	0.16	98.76
164.0-165.0	13.2	0.4	262.4	0.15	98.91
165.0-166.0	13.1	0.4	262.8	0.14	99.05
166.0-167.0	13.1	0.3	263.1	0.13	99.17
167.0-168.0	13.1	0.3	263.5	0.12	99.29
168.0-169.0	13.2	0.3	263.7	0.11	99.40
169.0-170.0	13.3	0.3	264.0	0.10	99.50
170.0-171.0	13.4	0.2	264.3	0.09	99.59
171.0-172.0	13.5	0.2	264.5	0.08	99.67
172.0-173.0	13.7	0.2	264.7	0.07	99.75
173.0-174.0	13.9	0.2	264.8	0.06	99.81
174.0-175.0	14.1	0.1	265.0	0.06	99.87
175.0-176.0	14.4	0.1	265.1	0.05	99.91
176.0-177.0	14.8	0.1	265.2	0.04	99.95
177.0-178.0	15.1	0.1	265.3	0.03	99.98
178.0-179.0	15.3	0.0	265.3	0.02	99.99
179.0-180.0	15.4	0.0	265.3	0.01	100.00