

Report No. : 33

Test Time : 2024-11-15 14:24:03

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## Nuura Goniophotometer Test Report

### Product Info

Luminaire : **Miira 6 Circle / opal**

Lamp : **G9 E3light LED, 3.5W / 250 Lumen**

Manufacturer : **Nuura**

Nuber of Lamps : **6**

Lumens per Lamp : **0 lm**

Luminous Length : **800 mm**

Luminous Width : **0 mm**

Luminous Height : **245 mm**

### Electric Parameters

Voltage : **230.80 V** Current : **0.0990 A** Power : **21.01 W** Power Factor : **0.916** Frequency : **49.99 Hz**

### Photometric Parameters

CIE Class : **General Diffuse**

Measurement Flux : **1337.0 lm**

Upward Ratio : **49.51 %**

Maximum Intensity : **135.77 cd**

Central Intensity : **98.52 cd**

Luminaire Efficacy Rating (LER) : **64**

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

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

Total Rated Lamp Lumens : **1337.0 lm**

Efficiency : **100.00 %**

Downward Ratio : **50.49 %**

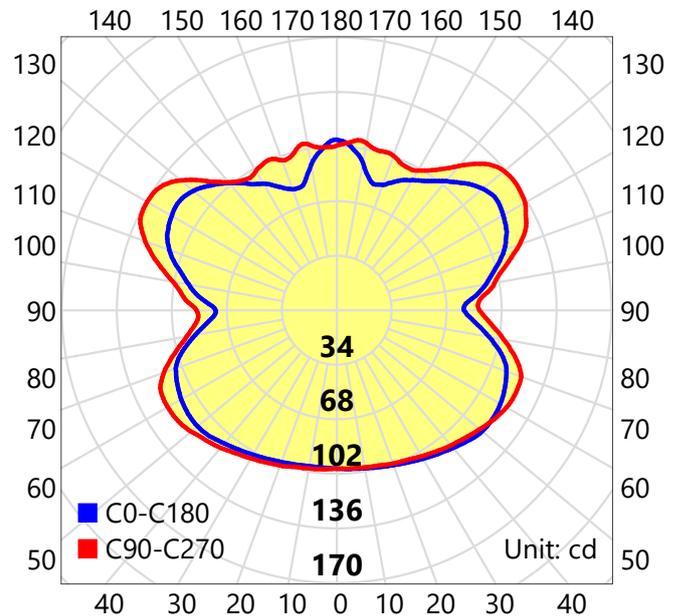
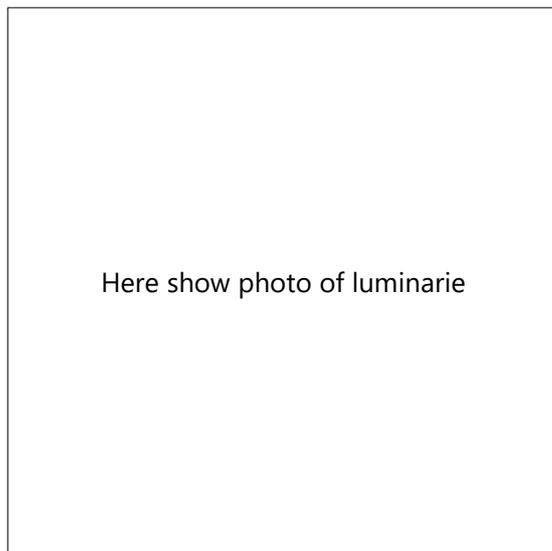
Position Of Maximum Intensity : **C90° γ126°**

S/MH(C0-C180,C90-C270) : **1.68, 1.69**

Energy Efficiency Class : **G (EU 2019/2015 η<sub>TM</sub>:64lm/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

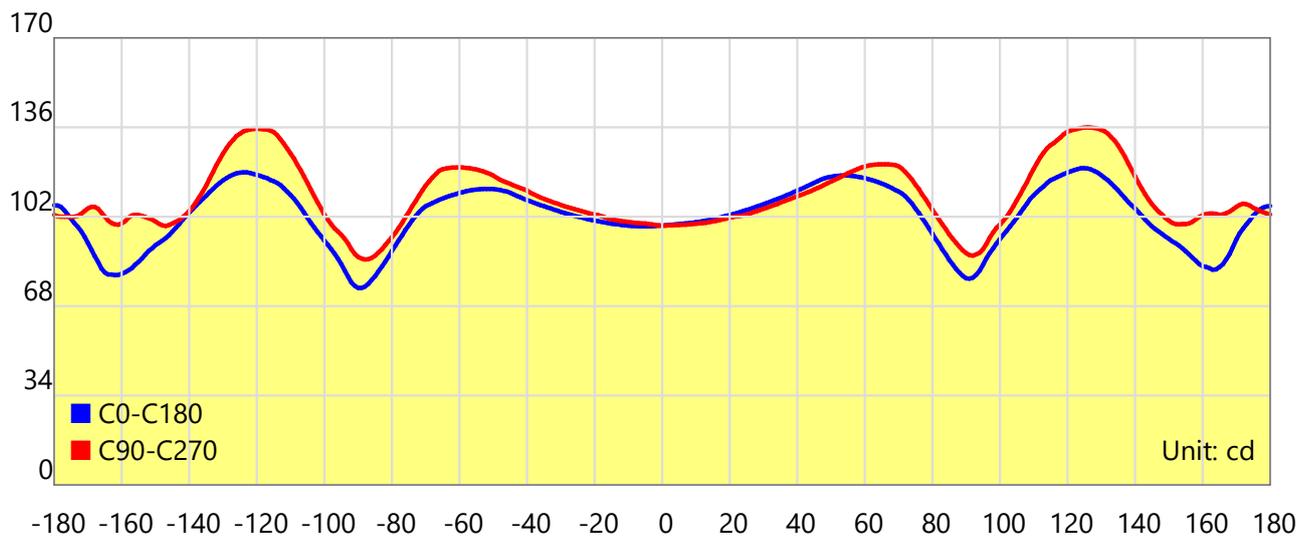
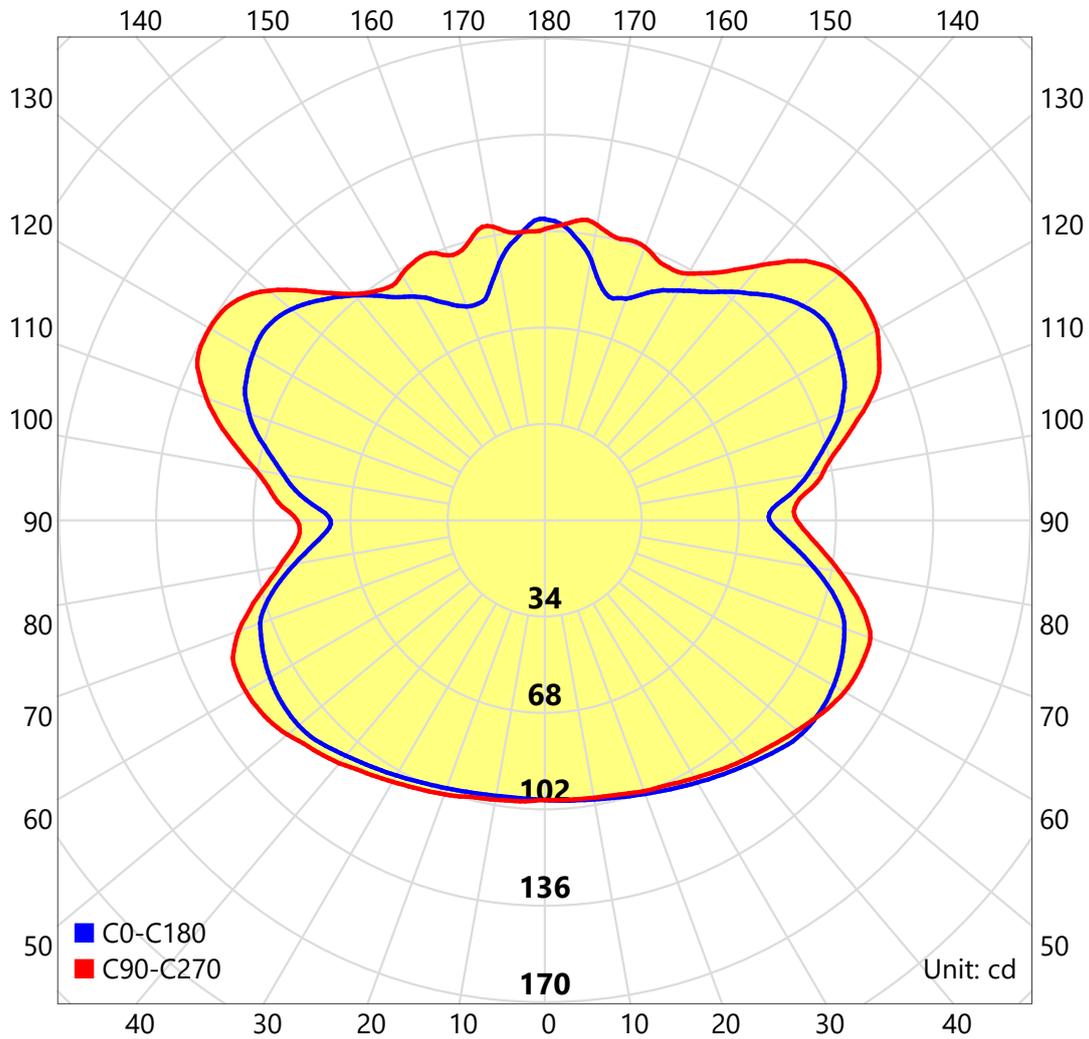
C Plane (°): 0.0-360.0:45.0 γ (°): 0.0-180.0:1.0

Temperature : 23.0°C

Humidity : 75.0%

Review By :

## Light Distribution Curve



Test Type : Type C

Test Distance : 6.119 m

C Plane (°): 0.0-360.0:45.0

$\gamma$  (°): 0.0-180.0:1.0

Test Device : Lisun LSG-1700B

Temperature : 23.0°C

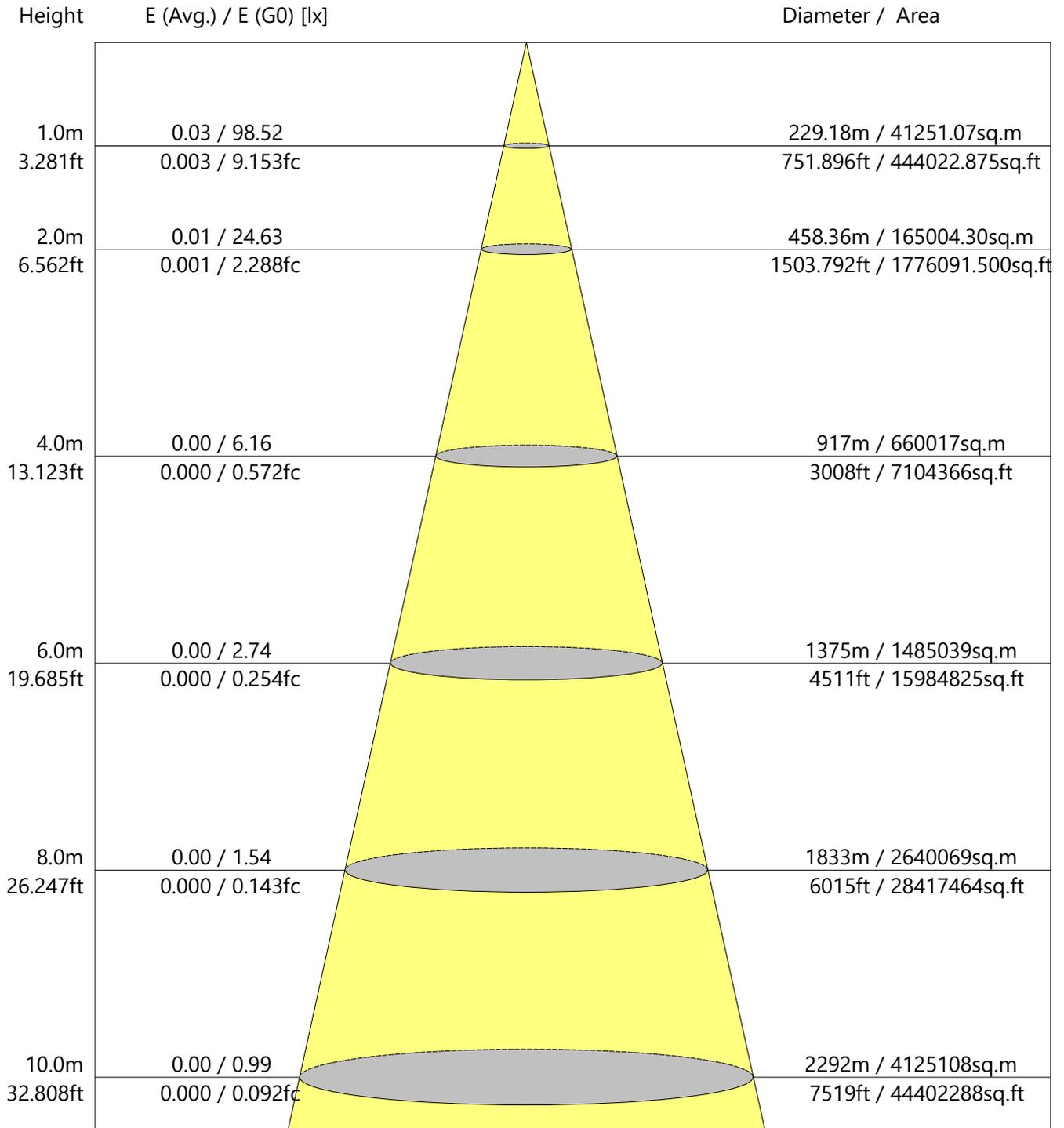
Humidity : 75.0%

Test Lab :

Test By : P. Nellemose

Review By :

## Average Illuminance Effective Figure



Beam Angle: 179° Flux Out: 1337.05lm

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	98.5	0.1	0.1	0.01	0.01
1.0-2.0	98.5	0.3	0.4	0.02	0.03
2.0-3.0	98.6	0.5	0.8	0.04	0.06
3.0-4.0	98.6	0.7	1.5	0.05	0.11
4.0-5.0	98.7	0.8	2.4	0.06	0.18
5.0-6.0	98.7	1.0	3.4	0.08	0.25
6.0-7.0	98.8	1.2	4.6	0.09	0.35
7.0-8.0	98.9	1.4	6.0	0.11	0.45
8.0-9.0	99.1	1.6	7.6	0.12	0.57
9.0-10.0	99.2	1.8	9.4	0.13	0.71
10.0-11.0	99.4	2.0	11.4	0.15	0.85
11.0-12.0	99.6	2.2	13.6	0.16	1.02
12.0-13.0	99.7	2.4	16.0	0.18	1.19
13.0-14.0	99.9	2.6	18.5	0.19	1.39
14.0-15.0	100.2	2.7	21.3	0.21	1.59
15.0-16.0	100.4	2.9	24.2	0.22	1.81
16.0-17.0	100.6	3.1	27.4	0.23	2.05
17.0-18.0	100.9	3.3	30.7	0.25	2.29
18.0-19.0	101.2	3.5	34.2	0.26	2.56
19.0-20.0	101.5	3.7	37.9	0.28	2.84
20.0-21.0	101.8	3.9	41.8	0.29	3.13
21.0-22.0	102.1	4.1	45.9	0.31	3.44
22.0-23.0	102.4	4.3	50.2	0.32	3.76
23.0-24.0	102.7	4.5	54.7	0.34	4.09
24.0-25.0	103.1	4.7	59.4	0.35	4.44
25.0-26.0	103.4	4.9	64.3	0.37	4.81
26.0-27.0	103.8	5.1	69.4	0.38	5.19
27.0-28.0	104.2	5.3	74.6	0.39	5.58
28.0-29.0	104.6	5.5	80.1	0.41	5.99
29.0-30.0	105.0	5.7	85.8	0.42	6.42
30.0-31.0	105.4	5.9	91.7	0.44	6.86
31.0-32.0	105.9	6.1	97.7	0.45	7.31
32.0-33.0	106.3	6.3	104.0	0.47	7.78
33.0-34.0	106.8	6.5	110.5	0.48	8.26
34.0-35.0	107.3	6.7	117.1	0.50	8.76
35.0-36.0	107.8	6.9	124.0	0.51	9.27
36.0-37.0	108.3	7.1	131.0	0.53	9.80
37.0-38.0	108.8	7.3	138.3	0.54	10.34
38.0-39.0	109.3	7.5	145.8	0.56	10.90
39.0-40.0	109.9	7.7	153.4	0.57	11.48

## Zonal Flux

Gamma °	lmean cd	Zonal Flux lm	Sum Zonal Flux lm	Rel Zonal Flux %	Sum Rel Zonal Flux %
40.0-41.0	110.4	7.9	161.3	0.59	12.06
41.0-42.0	110.9	8.1	169.4	0.60	12.67
42.0-43.0	111.5	8.3	177.6	0.62	13.28
43.0-44.0	112.0	8.5	186.1	0.63	13.92
44.0-45.0	112.6	8.7	194.7	0.65	14.56
45.0-46.0	113.2	8.9	203.6	0.66	15.23
46.0-47.0	113.7	9.0	212.6	0.68	15.90
47.0-48.0	114.3	9.2	221.9	0.69	16.59
48.0-49.0	114.8	9.4	231.3	0.71	17.30
49.0-50.0	115.2	9.6	240.9	0.72	18.02
50.0-51.0	115.6	9.8	250.7	0.73	18.75
51.0-52.0	116.0	10.0	260.7	0.74	19.50
52.0-53.0	116.3	10.1	270.8	0.76	20.25
53.0-54.0	116.5	10.3	281.0	0.77	21.02
54.0-55.0	116.7	10.4	291.5	0.78	21.80
55.0-56.0	116.9	10.6	302.0	0.79	22.59
56.0-57.0	116.9	10.7	312.7	0.80	23.39
57.0-58.0	116.9	10.8	323.5	0.81	24.20
58.0-59.0	116.9	10.9	334.5	0.82	25.02
59.0-60.0	116.8	11.0	345.5	0.83	25.84
60.0-61.0	116.7	11.1	356.6	0.83	26.67
61.0-62.0	116.6	11.2	367.9	0.84	27.51
62.0-63.0	116.4	11.3	379.2	0.85	28.36
63.0-64.0	116.2	11.4	390.6	0.85	29.21
64.0-65.0	115.9	11.5	402.1	0.86	30.07
65.0-66.0	115.7	11.5	413.6	0.86	30.94
66.0-67.0	115.3	11.6	425.2	0.87	31.80
67.0-68.0	114.8	11.6	436.8	0.87	32.67
68.0-69.0	114.2	11.7	448.5	0.87	33.54
69.0-70.0	113.6	11.7	460.2	0.87	34.42
70.0-71.0	113.0	11.7	471.9	0.87	35.29
71.0-72.0	112.1	11.7	483.5	0.87	36.16
72.0-73.0	111.0	11.6	495.1	0.87	37.03
73.0-74.0	109.8	11.5	506.7	0.86	37.89
74.0-75.0	108.5	11.5	518.1	0.86	38.75
75.0-76.0	107.0	11.4	529.5	0.85	39.60
76.0-77.0	105.5	11.2	540.7	0.84	40.44
77.0-78.0	103.8	11.1	551.9	0.83	41.27
78.0-79.0	102.2	11.0	562.8	0.82	42.10
79.0-80.0	100.5	10.8	573.7	0.81	42.91

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	98.9	10.7	584.4	0.80	43.71
81.0-82.0	97.3	10.6	594.9	0.79	44.50
82.0-83.0	95.7	10.4	605.3	0.78	45.27
83.0-84.0	94.3	10.3	615.6	0.77	46.04
84.0-85.0	92.9	10.1	625.7	0.76	46.80
85.0-86.0	91.7	10.0	635.8	0.75	47.55
86.0-87.0	90.8	9.9	645.7	0.74	48.29
87.0-88.0	90.0	9.9	655.6	0.74	49.03
88.0-89.0	89.4	9.8	665.4	0.73	49.76
89.0-90.0	89.1	9.8	675.1	0.73	50.49
90.0-91.0	89.1	9.8	684.9	0.73	51.23
91.0-92.0	89.6	9.8	694.7	0.73	51.96
92.0-93.0	90.4	9.9	704.6	0.74	52.70
93.0-94.0	91.6	10.0	714.7	0.75	53.45
94.0-95.0	92.8	10.1	724.8	0.76	54.21
95.0-96.0	94.2	10.3	735.1	0.77	54.98
96.0-97.0	95.5	10.4	745.5	0.78	55.76
97.0-98.0	96.7	10.5	756.0	0.79	56.54
98.0-99.0	97.9	10.6	766.6	0.79	57.34
99.0-100.0	99.0	10.7	777.3	0.80	58.14
100.0-101.0	100.1	10.8	788.1	0.81	58.94
101.0-102.0	101.4	10.9	799.0	0.82	59.76
102.0-103.0	102.8	11.0	810.0	0.82	60.58
103.0-104.0	104.3	11.1	821.1	0.83	61.41
104.0-105.0	105.9	11.2	832.4	0.84	62.26
105.0-106.0	107.5	11.4	843.7	0.85	63.10
106.0-107.0	109.1	11.5	855.2	0.86	63.96
107.0-108.0	110.6	11.6	866.8	0.87	64.83
108.0-109.0	112.2	11.7	878.4	0.87	65.70
109.0-110.0	113.7	11.8	890.2	0.88	66.58
110.0-111.0	115.0	11.8	902.0	0.88	67.46
111.0-112.0	116.4	11.9	913.9	0.89	68.35
112.0-113.0	117.6	11.9	925.8	0.89	69.24
113.0-114.0	118.8	12.0	937.8	0.89	70.14
114.0-115.0	119.8	12.0	949.7	0.89	71.03
115.0-116.0	120.5	11.9	961.6	0.89	71.92
116.0-117.0	121.1	11.9	973.5	0.89	72.81
117.0-118.0	121.4	11.8	985.3	0.88	73.69
118.0-119.0	121.6	11.7	997.0	0.88	74.57
119.0-120.0	121.6	11.6	1008.7	0.87	75.44

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	121.4	11.5	1020.1	0.86	76.30
121.0-122.0	121.1	11.3	1031.5	0.85	77.14
122.0-123.0	120.7	11.2	1042.6	0.83	77.98
123.0-124.0	120.1	11.0	1053.6	0.82	78.80
124.0-125.0	119.3	10.8	1064.4	0.81	79.61
125.0-126.0	118.3	10.6	1074.9	0.79	80.40
126.0-127.0	117.2	10.3	1085.3	0.77	81.17
127.0-128.0	115.9	10.1	1095.4	0.75	81.92
128.0-129.0	114.6	9.8	1105.2	0.74	82.66
129.0-130.0	113.2	9.6	1114.8	0.72	83.38
130.0-131.0	111.8	9.3	1124.1	0.70	84.07
131.0-132.0	110.4	9.1	1133.2	0.68	84.75
132.0-133.0	108.8	8.8	1142.0	0.66	85.41
133.0-134.0	107.3	8.5	1150.5	0.64	86.05
134.0-135.0	105.9	8.3	1158.8	0.62	86.67
135.0-136.0	104.5	8.0	1166.8	0.60	87.27
136.0-137.0	103.3	7.8	1174.6	0.58	87.85
137.0-138.0	102.2	7.6	1182.2	0.57	88.42
138.0-139.0	101.2	7.4	1189.5	0.55	88.97
139.0-140.0	100.5	7.2	1196.7	0.54	89.50
140.0-141.0	99.9	7.0	1203.7	0.52	90.02
141.0-142.0	99.4	6.8	1210.5	0.51	90.53
142.0-143.0	99.0	6.6	1217.1	0.49	91.03
143.0-144.0	98.6	6.4	1223.5	0.48	91.51
144.0-145.0	98.2	6.3	1229.7	0.47	91.97
145.0-146.0	97.8	6.1	1235.8	0.45	92.43
146.0-147.0	97.5	5.9	1241.7	0.44	92.87
147.0-148.0	97.2	5.7	1247.4	0.43	93.30
148.0-149.0	96.8	5.5	1253.0	0.41	93.71
149.0-150.0	96.5	5.4	1258.4	0.40	94.12
150.0-151.0	96.0	5.2	1263.6	0.39	94.50
151.0-152.0	95.5	5.0	1268.5	0.37	94.88
152.0-153.0	94.9	4.8	1273.4	0.36	95.24
153.0-154.0	94.3	4.6	1278.0	0.35	95.58
154.0-155.0	93.6	4.4	1282.4	0.33	95.91
155.0-156.0	92.8	4.2	1286.6	0.32	96.23
156.0-157.0	92.0	4.0	1290.6	0.30	96.53
157.0-158.0	91.3	3.8	1294.5	0.29	96.81
158.0-159.0	90.6	3.6	1298.1	0.27	97.09
159.0-160.0	90.0	3.5	1301.6	0.26	97.35

Test Type : Type C      Test Distance : 6.119 m  
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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	89.7	3.3	1304.8	0.25	97.59
161.0-162.0	89.6	3.1	1308.0	0.23	97.82
162.0-163.0	89.7	3.0	1310.9	0.22	98.05
163.0-164.0	89.9	2.8	1313.7	0.21	98.25
164.0-165.0	90.3	2.6	1316.4	0.20	98.45
165.0-166.0	91.0	2.5	1318.9	0.19	98.64
166.0-167.0	92.2	2.4	1321.2	0.18	98.82
167.0-168.0	93.7	2.2	1323.4	0.17	98.98
168.0-169.0	95.2	2.1	1325.5	0.16	99.14
169.0-170.0	96.8	1.9	1327.5	0.14	99.28
170.0-171.0	98.3	1.8	1329.2	0.13	99.42
171.0-172.0	99.5	1.6	1330.9	0.12	99.54
172.0-173.0	100.4	1.4	1332.3	0.11	99.64
173.0-174.0	101.0	1.3	1333.5	0.09	99.74
174.0-175.0	101.4	1.1	1334.6	0.08	99.82
175.0-176.0	101.8	0.9	1335.5	0.07	99.88
176.0-177.0	102.0	0.7	1336.2	0.05	99.93
177.0-178.0	102.2	0.5	1336.7	0.04	99.97
178.0-179.0	102.2	0.3	1336.9	0.02	99.99
179.0-180.0	102.1	0.1	1337.0	0.01	100.00