

Report No. : 32

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Nuura Goniophotometer Test Report

Product Info

Luminaire : **Miira 6 Circle / optic clear**

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 : **21.00 W** Power Factor : **0.916** Frequency : **50.00 Hz**

Photometric Parameters

CIE Class : **General Diffuse**

Measurement Flux : **1510.6 lm**

Upward Ratio : **41.15 %**

Maximum Intensity : **185.08 cd**

Central Intensity : **85.69 cd**

Luminaire Efficacy Rating (LER) : **72**

Beam Angle (C0-C180,C90-C270) : **277.7 °, 269.5 °**

Field Angle (C0-C180,C90-C270) : **329.1 °, 335.3 °**

Total Rated Lamp Lumens : **1510.6 lm**

Efficiency : **100.00 %**

Downward Ratio : **58.85 %**

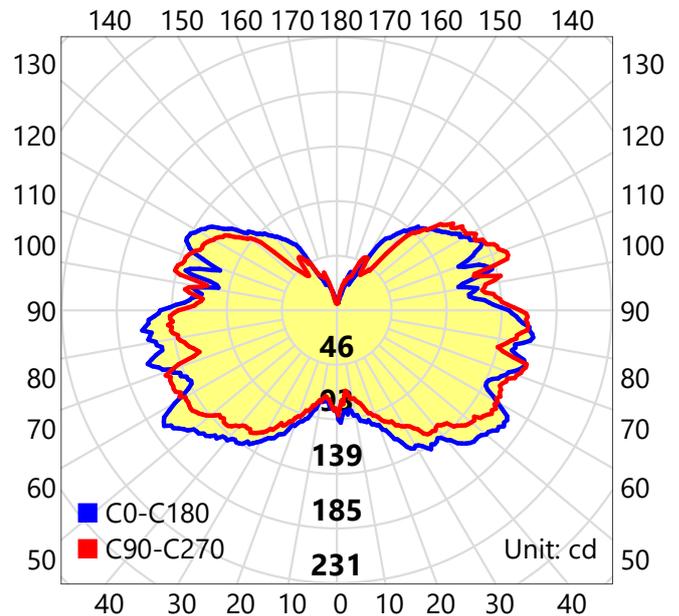
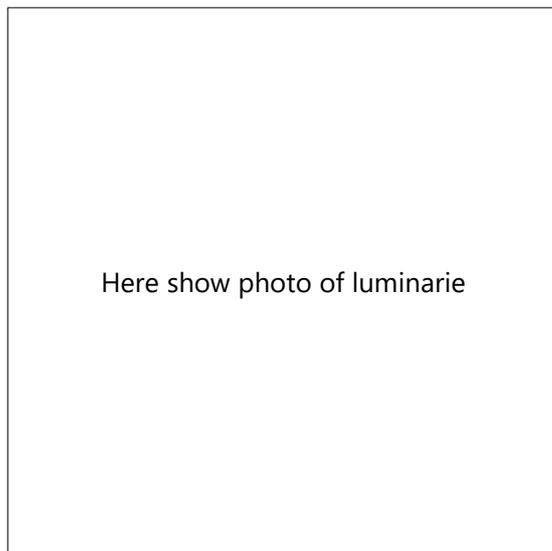
Position Of Maximum Intensity : **C45° γ65°**

S/MH(C0-C180,C90-C270) : **2.38, 2.18**

Energy Efficiency Class : **G (EU 2019/2015 η_{TM}:72lm/W)**

Beam Angle (C45-C225,C135-C315) : **251.3 °, 251.4 °**

Field Angle (C45-C225,C135-C315) : **334.9 °, 335.3 °**



Average Beam Angle (50%): 262.5°

Test Type : Type C Test Distance : 6.119 m

Test Device : Lisun LSG-1700B

Test Lab :

Test By : P. Nellemose

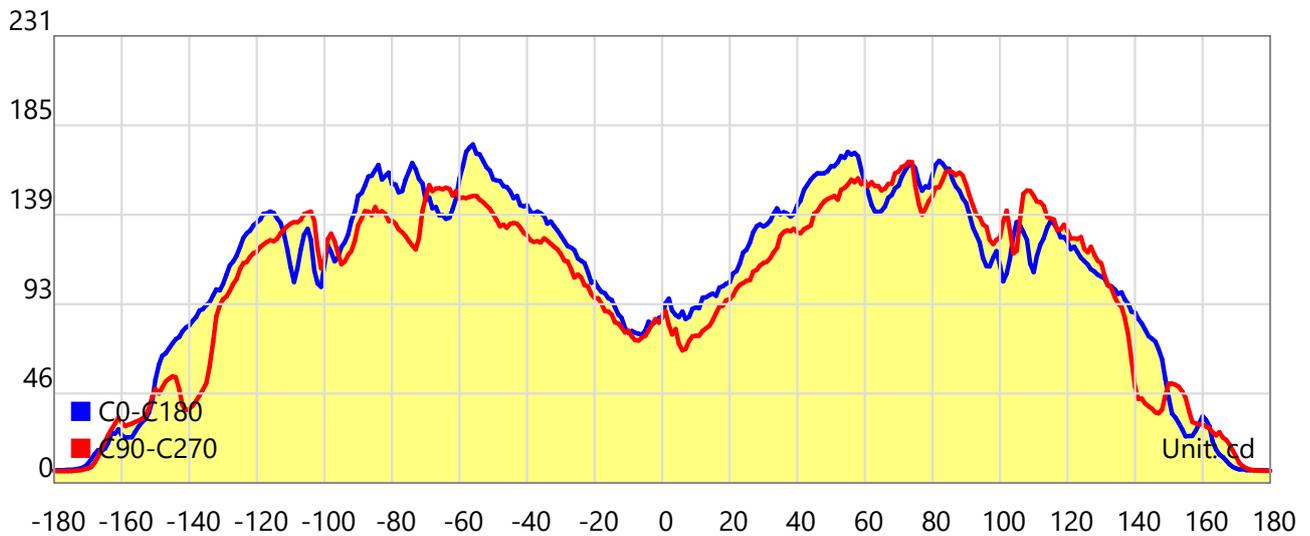
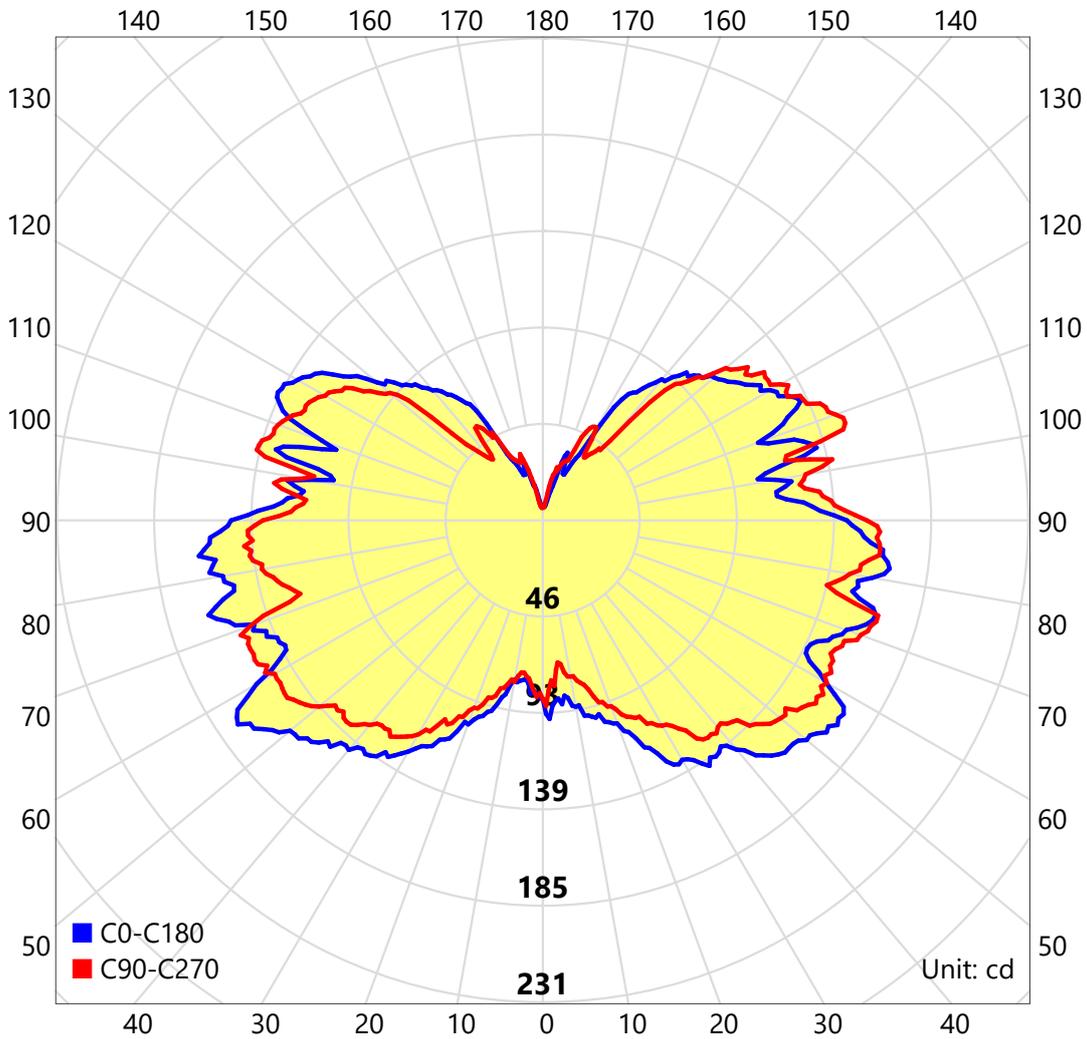
C Plane (°): 0.0-360.0:45.0 γ (°): 0.0-180.0:1.0

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

γ (°): 0.0-180.0:1.0

Test Device : Lisun LSG-1700B

Temperature : 23.0°C

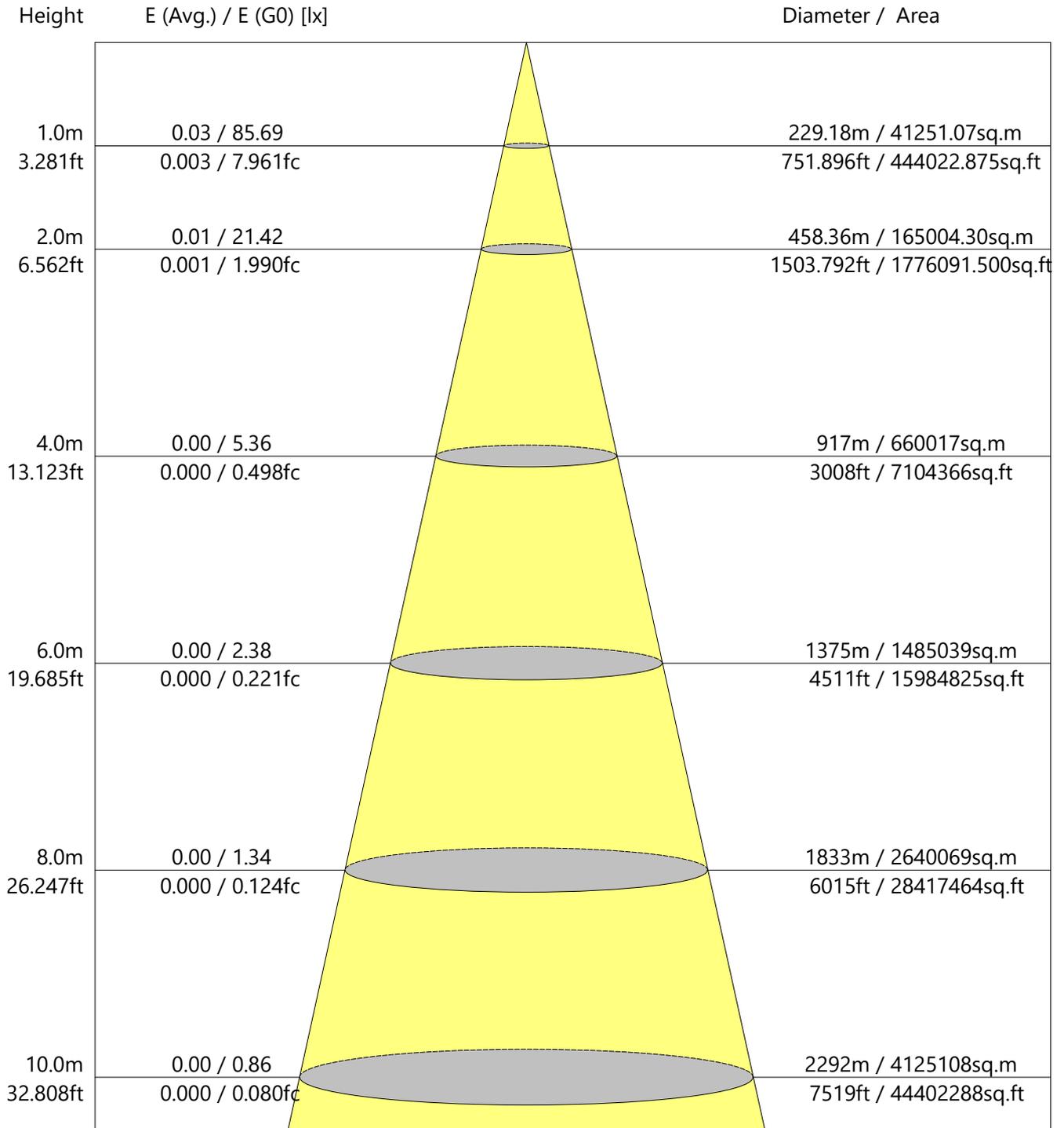
Humidity : 75.0%

Test Lab :

Test By : P. Nellemose

Review By :

Average Illuminance Effective Figure



Beam Angle: 179° Flux Out: 1443.44lm

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	86.9	0.1	0.1	0.01	0.01
1.0-2.0	87.8	0.3	0.3	0.02	0.02
2.0-3.0	85.7	0.4	0.7	0.03	0.05
3.0-4.0	83.7	0.6	1.3	0.04	0.09
4.0-5.0	81.0	0.7	2.0	0.05	0.13
5.0-6.0	77.7	0.8	2.8	0.05	0.19
6.0-7.0	77.1	1.0	3.8	0.06	0.25
7.0-8.0	77.9	1.1	4.9	0.07	0.32
8.0-9.0	79.0	1.3	6.2	0.08	0.41
9.0-10.0	80.0	1.4	7.6	0.10	0.50
10.0-11.0	81.1	1.6	9.2	0.11	0.61
11.0-12.0	83.1	1.8	11.1	0.12	0.73
12.0-13.0	85.5	2.0	13.1	0.13	0.87
13.0-14.0	87.3	2.2	15.3	0.15	1.01
14.0-15.0	89.5	2.5	17.8	0.16	1.18
15.0-16.0	91.4	2.7	20.5	0.18	1.35
16.0-17.0	93.1	2.9	23.4	0.19	1.55
17.0-18.0	95.5	3.2	26.5	0.21	1.75
18.0-19.0	97.9	3.4	29.9	0.23	1.98
19.0-20.0	99.7	3.6	33.6	0.24	2.22
20.0-21.0	101.4	3.9	37.5	0.26	2.48
21.0-22.0	103.8	4.2	41.6	0.28	2.76
22.0-23.0	106.3	4.5	46.1	0.30	3.05
23.0-24.0	108.7	4.8	50.8	0.31	3.37
24.0-25.0	110.4	5.0	55.9	0.33	3.70
25.0-26.0	111.6	5.3	61.1	0.35	4.05
26.0-27.0	114.0	5.6	66.7	0.37	4.42
27.0-28.0	117.0	5.9	72.6	0.39	4.81
28.0-29.0	119.1	6.2	78.9	0.41	5.22
29.0-30.0	120.8	6.5	85.4	0.43	5.65
30.0-31.0	122.8	6.8	92.2	0.45	6.11
31.0-32.0	124.7	7.1	99.4	0.47	6.58
32.0-33.0	126.6	7.5	106.8	0.49	7.07
33.0-34.0	128.8	7.8	114.6	0.52	7.59
34.0-35.0	130.8	8.1	122.7	0.54	8.13
35.0-36.0	132.2	8.4	131.2	0.56	8.68
36.0-37.0	133.3	8.7	139.9	0.58	9.26
37.0-38.0	134.1	8.9	148.8	0.59	9.85
38.0-39.0	135.1	9.2	158.0	0.61	10.46
39.0-40.0	136.8	9.5	167.6	0.63	11.09

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 %
40.0-41.0	138.1	9.8	177.4	0.65	11.74
41.0-42.0	139.7	10.2	187.6	0.67	12.42
42.0-43.0	141.7	10.5	198.1	0.70	13.11
43.0-44.0	143.6	10.8	208.9	0.72	13.83
44.0-45.0	145.0	11.1	220.0	0.74	14.57
45.0-46.0	145.8	11.4	231.4	0.75	15.32
46.0-47.0	146.4	11.6	243.1	0.77	16.09
47.0-48.0	147.1	11.9	255.0	0.79	16.88
48.0-49.0	147.9	12.1	267.1	0.80	17.68
49.0-50.0	149.1	12.4	279.6	0.82	18.51
50.0-51.0	150.4	12.7	292.3	0.84	19.35
51.0-52.0	151.5	13.0	305.3	0.86	20.21
52.0-53.0	153.2	13.3	318.6	0.88	21.09
53.0-54.0	155.1	13.7	332.3	0.91	22.00
54.0-55.0	156.9	14.0	346.3	0.93	22.92
55.0-56.0	158.4	14.3	360.6	0.95	23.87
56.0-57.0	159.5	14.6	375.2	0.97	24.84
57.0-58.0	160.0	14.8	390.0	0.98	25.82
58.0-59.0	159.6	14.9	404.9	0.99	26.80
59.0-60.0	158.2	14.9	419.9	0.99	27.79
60.0-61.0	156.8	15.0	434.8	0.99	28.79
61.0-62.0	155.4	15.0	449.8	0.99	29.78
62.0-63.0	154.0	15.0	464.8	0.99	30.77
63.0-64.0	152.9	15.0	479.8	0.99	31.76
64.0-65.0	151.9	15.0	494.8	1.00	32.76
65.0-66.0	151.0	15.1	509.9	1.00	33.75
66.0-67.0	150.9	15.2	525.1	1.00	34.76
67.0-68.0	150.2	15.2	540.3	1.01	35.77
68.0-69.0	150.1	15.3	555.6	1.01	36.78
69.0-70.0	149.8	15.4	571.0	1.02	37.80
70.0-71.0	148.9	15.4	586.4	1.02	38.82
71.0-72.0	148.2	15.4	601.8	1.02	39.84
72.0-73.0	147.4	15.4	617.2	1.02	40.86
73.0-74.0	148.2	15.6	632.8	1.03	41.89
74.0-75.0	147.9	15.6	648.4	1.03	42.92
75.0-76.0	145.5	15.4	663.9	1.02	43.95
76.0-77.0	143.6	15.3	679.2	1.01	44.96
77.0-78.0	143.4	15.4	694.5	1.02	45.98
78.0-79.0	143.9	15.5	710.0	1.02	47.00
79.0-80.0	145.0	15.6	725.6	1.04	48.04

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	147.1	15.9	741.6	1.05	49.09
81.0-82.0	148.5	16.1	757.7	1.07	50.16
82.0-83.0	149.3	16.2	773.9	1.07	51.23
83.0-84.0	150.3	16.4	790.3	1.08	52.31
84.0-85.0	151.1	16.5	806.8	1.09	53.41
85.0-86.0	150.9	16.5	823.3	1.09	54.50
86.0-87.0	150.7	16.5	839.8	1.09	55.59
87.0-88.0	150.5	16.5	856.2	1.09	56.68
88.0-89.0	149.8	16.4	872.7	1.09	57.77
89.0-90.0	149.1	16.4	889.0	1.08	58.85
90.0-91.0	146.3	16.0	905.1	1.06	59.91
91.0-92.0	142.8	15.7	920.7	1.04	60.95
92.0-93.0	140.4	15.4	936.1	1.02	61.97
93.0-94.0	137.4	15.0	951.1	1.00	62.96
94.0-95.0	134.5	14.7	965.9	0.97	63.94
95.0-96.0	132.4	14.5	980.3	0.96	64.89
96.0-97.0	130.4	14.2	994.5	0.94	65.83
97.0-98.0	129.0	14.0	1008.5	0.93	66.76
98.0-99.0	127.7	13.9	1022.4	0.92	67.68
99.0-100.0	124.0	13.4	1035.8	0.89	68.57
100.0-101.0	119.5	12.9	1048.7	0.85	69.42
101.0-102.0	118.7	12.8	1061.4	0.84	70.27
102.0-103.0	121.3	13.0	1074.4	0.86	71.12
103.0-104.0	125.2	13.3	1087.8	0.88	72.01
104.0-105.0	129.3	13.7	1101.5	0.91	72.92
105.0-106.0	132.3	14.0	1115.5	0.93	73.84
106.0-107.0	133.0	14.0	1129.5	0.93	74.77
107.0-108.0	131.0	13.7	1143.2	0.91	75.67
108.0-109.0	128.2	13.3	1156.5	0.88	76.56
109.0-110.0	127.5	13.2	1169.7	0.87	77.43
110.0-111.0	129.0	13.3	1182.9	0.88	78.31
111.0-112.0	131.1	13.4	1196.3	0.89	79.19
112.0-113.0	132.3	13.4	1209.7	0.89	80.08
113.0-114.0	131.7	13.2	1222.9	0.88	80.96
114.0-115.0	130.2	13.0	1235.9	0.86	81.82
115.0-116.0	128.2	12.7	1248.6	0.84	82.66
116.0-117.0	125.0	12.3	1260.9	0.81	83.47
117.0-118.0	122.1	11.9	1272.8	0.79	84.25
118.0-119.0	120.3	11.6	1284.4	0.77	85.02
119.0-120.0	118.0	11.3	1295.6	0.75	85.77

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	115.3	10.9	1306.5	0.72	86.49
121.0-122.0	113.6	10.6	1317.1	0.70	87.19
122.0-123.0	111.8	10.3	1327.5	0.68	87.88
123.0-124.0	108.3	9.9	1337.4	0.66	88.53
124.0-125.0	103.2	9.3	1346.7	0.62	89.15
125.0-126.0	98.5	8.8	1355.5	0.58	89.73
126.0-127.0	96.2	8.5	1364.0	0.56	90.29
127.0-128.0	95.0	8.3	1372.3	0.55	90.84
128.0-129.0	92.9	8.0	1380.2	0.53	91.37
129.0-130.0	89.6	7.6	1387.8	0.50	91.87
130.0-131.0	86.2	7.2	1395.0	0.48	92.35
131.0-132.0	84.6	6.9	1402.0	0.46	92.81
132.0-133.0	84.2	6.8	1408.8	0.45	93.26
133.0-134.0	82.9	6.6	1415.4	0.44	93.69
134.0-135.0	80.7	6.3	1421.7	0.42	94.11
135.0-136.0	79.0	6.1	1427.7	0.40	94.51
136.0-137.0	76.7	5.8	1433.5	0.38	94.90
137.0-138.0	73.5	5.4	1439.0	0.36	95.26
138.0-139.0	70.2	5.1	1444.1	0.34	95.59
139.0-140.0	66.8	4.8	1448.8	0.31	95.91
140.0-141.0	63.9	4.5	1453.3	0.29	96.20
141.0-142.0	62.0	4.2	1457.5	0.28	96.48
142.0-143.0	60.9	4.1	1461.6	0.27	96.75
143.0-144.0	59.8	3.9	1465.5	0.26	97.01
144.0-145.0	58.5	3.7	1469.2	0.25	97.26
145.0-146.0	56.9	3.5	1472.7	0.23	97.49
146.0-147.0	55.3	3.3	1476.1	0.22	97.71
147.0-148.0	53.9	3.2	1479.3	0.21	97.92
148.0-149.0	52.5	3.0	1482.3	0.20	98.12
149.0-150.0	51.2	2.8	1485.1	0.19	98.31
150.0-151.0	48.9	2.6	1487.8	0.17	98.49
151.0-152.0	46.1	2.4	1490.2	0.16	98.65
152.0-153.0	43.6	2.2	1492.4	0.15	98.79
153.0-154.0	41.3	2.0	1494.4	0.13	98.93
154.0-155.0	39.5	1.9	1496.3	0.12	99.05
155.0-156.0	37.3	1.7	1498.0	0.11	99.16
156.0-157.0	34.8	1.5	1499.5	0.10	99.26
157.0-158.0	33.2	1.4	1500.9	0.09	99.35
158.0-159.0	32.5	1.3	1502.2	0.09	99.44
159.0-160.0	32.1	1.2	1503.4	0.08	99.52

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 °	I _{mean} cd	Zonal Flux lm	Sum Zonal Flux lm	Rel Zonal Flux %	Sum Rel Zonal Flux %
160.0-161.0	31.6	1.2	1504.6	0.08	99.60
161.0-162.0	30.0	1.0	1505.6	0.07	99.67
162.0-163.0	27.6	0.9	1506.5	0.06	99.73
163.0-164.0	25.0	0.8	1507.3	0.05	99.78
164.0-165.0	22.7	0.7	1508.0	0.04	99.82
165.0-166.0	20.7	0.6	1508.5	0.04	99.86
166.0-167.0	18.3	0.5	1509.0	0.03	99.89
167.0-168.0	16.1	0.4	1509.4	0.03	99.92
168.0-169.0	13.6	0.3	1509.7	0.02	99.94
169.0-170.0	11.2	0.2	1509.9	0.01	99.95
170.0-171.0	9.4	0.2	1510.1	0.01	99.96
171.0-172.0	8.1	0.1	1510.2	0.01	99.97
172.0-173.0	7.3	0.1	1510.3	0.01	99.98
173.0-174.0	7.0	0.1	1510.4	0.01	99.98
174.0-175.0	6.7	0.1	1510.5	0.00	99.99
175.0-176.0	6.6	0.1	1510.5	0.00	99.99
176.0-177.0	6.5	0.0	1510.6	0.00	100.00
177.0-178.0	6.4	0.0	1510.6	0.00	100.00
178.0-179.0	6.4	0.0	1510.6	0.00	100.00
179.0-180.0	6.4	0.0	1510.6	0.00	100.00