

## Teamtronic Goniophotometer Test Report

### Product Info

Luminaire : **Rizzato 301\_satin brass\_Opal\_ø300x220\_8.7W\_927**

Manufacturer : **Teamtronic**

Nuber of Lamps : **1**

Lumens per Lamp : **0 lm**

Luminous Length : **170 mm**

Luminous Width : **0 mm**

Luminous Height : **240 mm**

### Electric Parameters

Voltage : **231.40 V** Current : **0.0470 A** Power : **8.71 W** Power Factor : **0.803** Frequency : **50.00 Hz**

### Photometric Parameters

CIE Class : **General Diffuse**

Measurement Flux : **764.5 lm**

Upward Ratio : **45.64 %**

Maximum Intensity : **84.92 cd**

Central Intensity : **83.55 cd**

Luminaire Efficacy Rating (LER) : **88**

Beam Angle (C0-C180,C90-C270) : **327.2 °, 334.1 °**

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

Total Rated Lamp Lumens : **764.5 lm**

Efficiency : **100.00 %**

Downward Ratio : **54.36 %**

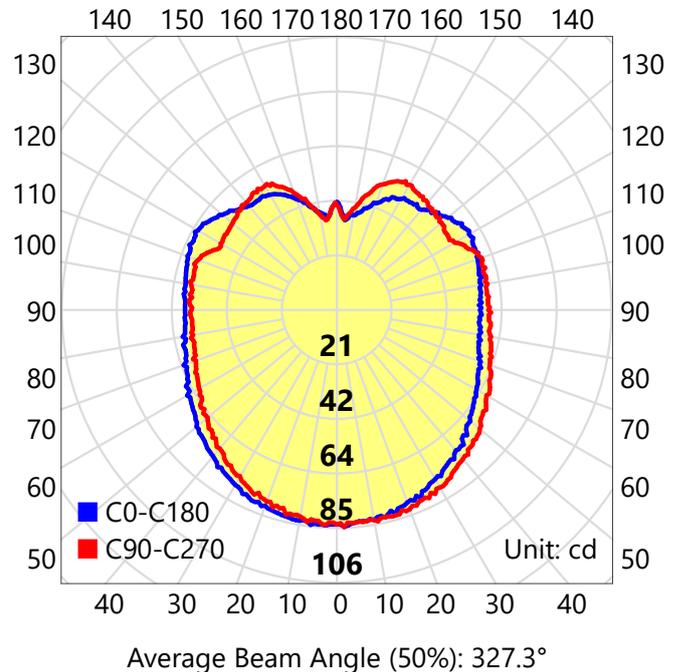
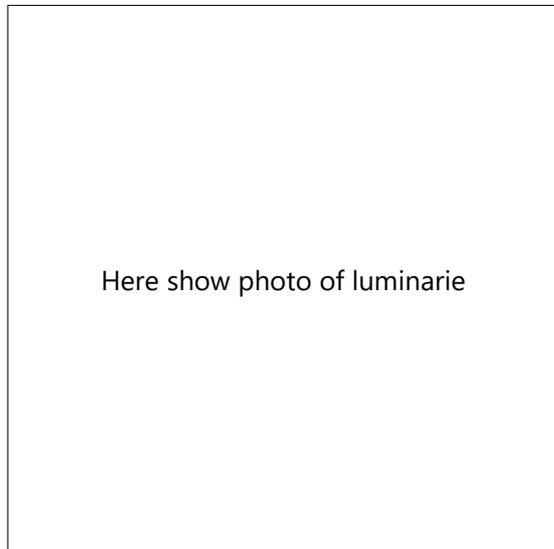
Position Of Maximum Intensity : **C135° γ8°**

S/MH(C0-C180,C90-C270) : **1.39, 1.39**

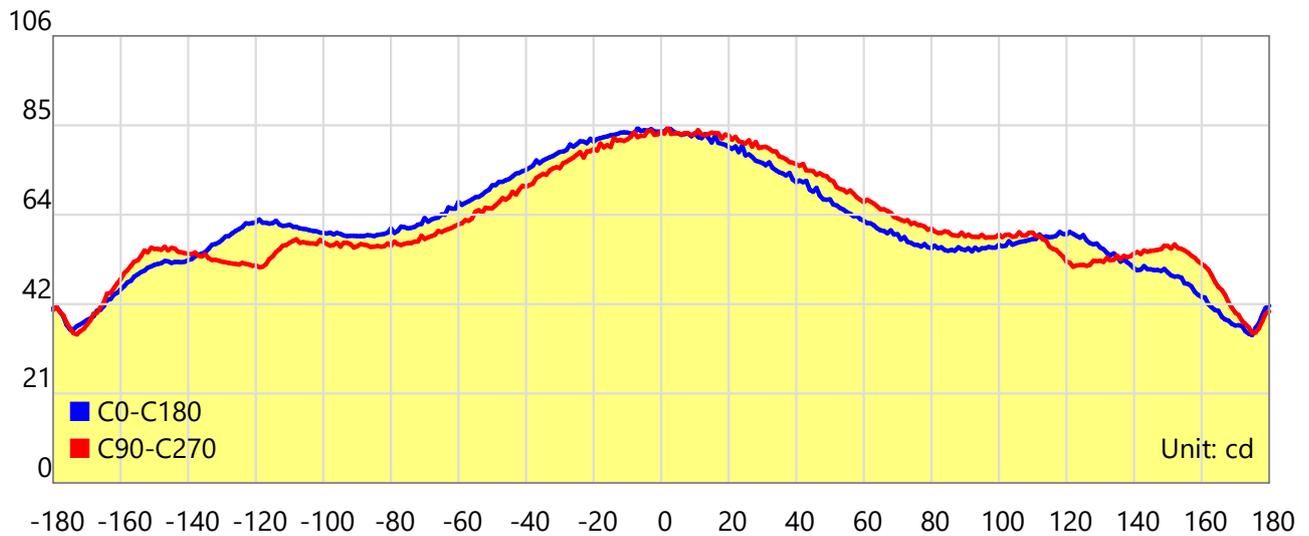
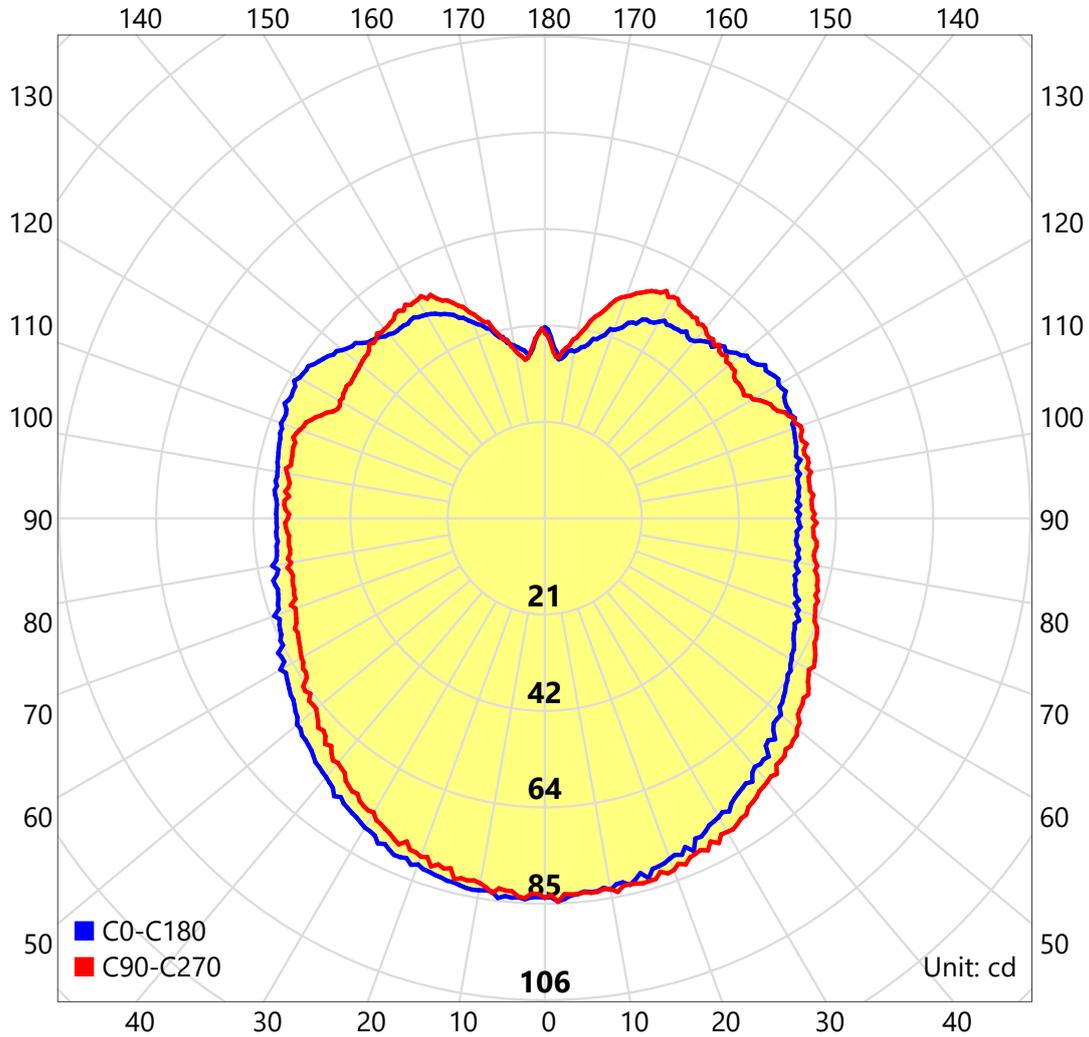
Energy Efficiency Class : **F (EU 2019/2015 η<sub>TM</sub>:88lm/W)**

Beam Angle (C45-C225,C135-C315) : **325.0 °, 323.0 °**

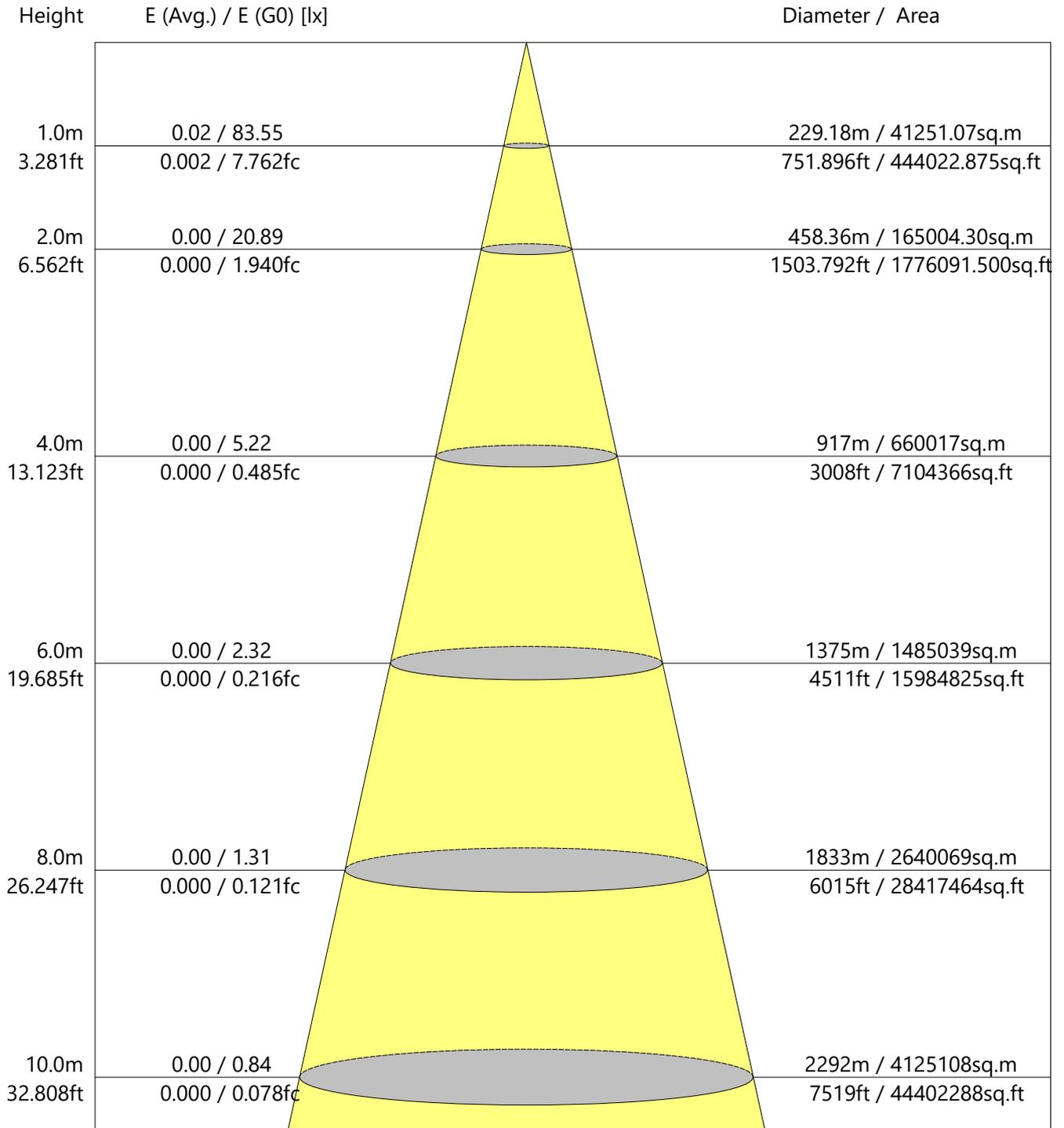
Field Angle (C45-C225,C135-C315) : **360.0 °, 360.0 °**



## Light Distribution Curve



## Average Illuminance Effective Figure



Beam Angle: 179° Flux Out: 754.46lm

## Zonal Flux

Gamma °	I <sub>mean</sub> cd	Zonal Flux lm	Sum Zonal Flux lm	Rel Zonal Flux %	Sum Rel Zonal Flux %
0.0-1.0	83.4	0.1	0.1	0.01	0.01
1.0-2.0	83.4	0.2	0.3	0.03	0.04
2.0-3.0	83.5	0.4	0.7	0.05	0.09
3.0-4.0	83.4	0.6	1.3	0.07	0.17
4.0-5.0	83.1	0.7	2.0	0.09	0.26
5.0-6.0	82.8	0.9	2.9	0.11	0.37
6.0-7.0	82.8	1.0	3.9	0.13	0.51
7.0-8.0	82.9	1.2	5.1	0.16	0.66
8.0-9.0	82.7	1.3	6.4	0.18	0.84
9.0-10.0	82.4	1.5	7.9	0.20	1.03
10.0-11.0	82.4	1.6	9.6	0.22	1.25
11.0-12.0	82.1	1.8	11.3	0.23	1.48
12.0-13.0	82.0	1.9	13.3	0.25	1.74
13.0-14.0	81.8	2.1	15.4	0.27	2.01
14.0-15.0	81.6	2.2	17.6	0.29	2.31
15.0-16.0	81.5	2.4	20.0	0.31	2.62
16.0-17.0	81.4	2.5	22.5	0.33	2.95
17.0-18.0	81.1	2.7	25.2	0.35	3.30
18.0-19.0	80.9	2.8	28.0	0.37	3.67
19.0-20.0	80.6	2.9	31.0	0.39	4.05
20.0-21.0	80.3	3.1	34.1	0.40	4.46
21.0-22.0	80.1	3.2	37.3	0.42	4.88
22.0-23.0	79.8	3.4	40.6	0.44	5.32
23.0-24.0	79.5	3.5	44.1	0.45	5.77
24.0-25.0	79.1	3.6	47.7	0.47	6.24
25.0-26.0	78.8	3.7	51.4	0.49	6.73
26.0-27.0	78.4	3.8	55.3	0.50	7.23
27.0-28.0	78.2	4.0	59.2	0.52	7.75
28.0-29.0	77.9	4.1	63.3	0.53	8.28
29.0-30.0	77.3	4.2	67.5	0.55	8.83
30.0-31.0	77.0	4.3	71.8	0.56	9.39
31.0-32.0	76.6	4.4	76.2	0.57	9.96
32.0-33.0	76.2	4.5	80.7	0.59	10.55
33.0-34.0	75.8	4.6	85.2	0.60	11.15
34.0-35.0	75.3	4.7	89.9	0.61	11.76
35.0-36.0	75.0	4.8	94.7	0.62	12.39
36.0-37.0	74.7	4.9	99.6	0.64	13.02
37.0-38.0	74.1	4.9	104.5	0.65	13.67
38.0-39.0	73.5	5.0	109.5	0.66	14.33
39.0-40.0	73.1	5.1	114.6	0.67	14.99

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 %
40.0-41.0	72.7	5.2	119.8	0.68	15.67
41.0-42.0	72.4	5.3	125.1	0.69	16.36
42.0-43.0	71.9	5.3	130.4	0.70	17.06
43.0-44.0	71.4	5.4	135.8	0.70	17.76
44.0-45.0	71.1	5.5	141.2	0.71	18.48
45.0-46.0	70.6	5.5	146.8	0.72	19.20
46.0-47.0	70.2	5.6	152.4	0.73	19.93
47.0-48.0	69.7	5.6	158.0	0.74	20.67
48.0-49.0	69.1	5.7	163.7	0.74	21.41
49.0-50.0	68.8	5.7	169.4	0.75	22.16
50.0-51.0	68.2	5.8	175.2	0.75	22.91
51.0-52.0	67.7	5.8	181.0	0.76	23.67
52.0-53.0	67.3	5.9	186.8	0.77	24.44
53.0-54.0	66.8	5.9	192.7	0.77	25.21
54.0-55.0	66.3	5.9	198.6	0.77	25.98
55.0-56.0	65.8	6.0	204.6	0.78	26.76
56.0-57.0	65.6	6.0	210.6	0.78	27.55
57.0-58.0	65.2	6.0	216.6	0.79	28.34
58.0-59.0	64.6	6.0	222.7	0.79	29.13
59.0-60.0	64.1	6.1	228.7	0.79	29.92
60.0-61.0	63.8	6.1	234.8	0.80	30.72
61.0-62.0	63.4	6.1	240.9	0.80	31.52
62.0-63.0	63.1	6.1	247.1	0.80	32.32
63.0-64.0	62.6	6.1	253.2	0.80	33.12
64.0-65.0	62.2	6.2	259.4	0.81	33.93
65.0-66.0	61.8	6.2	265.5	0.81	34.74
66.0-67.0	61.5	6.2	271.7	0.81	35.54
67.0-68.0	61.1	6.2	277.9	0.81	36.35
68.0-69.0	60.7	6.2	284.1	0.81	37.16
69.0-70.0	60.4	6.2	290.3	0.81	37.98
70.0-71.0	60.2	6.2	296.5	0.81	38.79
71.0-72.0	59.9	6.2	302.8	0.81	39.60
72.0-73.0	59.5	6.2	309.0	0.81	40.42
73.0-74.0	59.2	6.2	315.2	0.81	41.23
74.0-75.0	59.0	6.2	321.5	0.82	42.05
75.0-76.0	58.9	6.2	327.7	0.82	42.87
76.0-77.0	58.7	6.3	334.0	0.82	43.68
77.0-78.0	58.5	6.3	340.2	0.82	44.50
78.0-79.0	58.3	6.3	346.5	0.82	45.32
79.0-80.0	58.2	6.3	352.8	0.82	46.14

## Zonal Flux

Gamma °	I <sub>mean</sub> cd	Zonal Flux lm	Sum Zonal Flux lm	Rel Zonal Flux %	Sum Rel Zonal Flux %
80.0-81.0	58.1	6.3	359.0	0.82	46.97
81.0-82.0	57.9	6.3	365.3	0.82	47.79
82.0-83.0	57.7	6.3	371.6	0.82	48.61
83.0-84.0	57.6	6.3	377.9	0.82	49.43
84.0-85.0	57.5	6.3	384.1	0.82	50.25
85.0-86.0	57.4	6.3	390.4	0.82	51.07
86.0-87.0	57.4	6.3	396.7	0.82	51.89
87.0-88.0	57.3	6.3	403.0	0.82	52.71
88.0-89.0	57.4	6.3	409.3	0.82	53.54
89.0-90.0	57.3	6.3	415.6	0.82	54.36
90.0-91.0	57.2	6.3	421.8	0.82	55.18
91.0-92.0	57.3	6.3	428.1	0.82	56.00
92.0-93.0	57.3	6.3	434.4	0.82	56.82
93.0-94.0	57.4	6.3	440.7	0.82	57.65
94.0-95.0	57.6	6.3	447.0	0.82	58.47
95.0-96.0	57.7	6.3	453.3	0.82	59.29
96.0-97.0	57.7	6.3	459.6	0.82	60.12
97.0-98.0	57.7	6.3	465.9	0.82	60.94
98.0-99.0	57.8	6.3	472.1	0.82	61.76
99.0-100.0	57.8	6.3	478.4	0.82	62.58
100.0-101.0	57.9	6.2	484.6	0.82	63.39
101.0-102.0	57.9	6.2	490.8	0.81	64.21
102.0-103.0	58.1	6.2	497.1	0.81	65.02
103.0-104.0	58.1	6.2	503.3	0.81	65.83
104.0-105.0	58.1	6.2	509.4	0.81	66.64
105.0-106.0	58.2	6.2	515.6	0.80	67.44
106.0-107.0	58.2	6.1	521.7	0.80	68.24
107.0-108.0	58.4	6.1	527.8	0.80	69.04
108.0-109.0	58.6	6.1	533.9	0.80	69.84
109.0-110.0	58.8	6.1	540.0	0.79	70.63
110.0-111.0	58.7	6.0	546.0	0.79	71.42
111.0-112.0	58.6	6.0	552.0	0.78	72.20
112.0-113.0	58.7	5.9	557.9	0.78	72.98
113.0-114.0	58.6	5.9	563.8	0.77	73.75
114.0-115.0	58.4	5.8	569.7	0.76	74.52
115.0-116.0	58.2	5.8	575.4	0.75	75.27
116.0-117.0	58.0	5.7	581.1	0.75	76.01
117.0-118.0	58.0	5.6	586.8	0.74	76.75
118.0-119.0	57.9	5.6	592.3	0.73	77.48
119.0-120.0	57.7	5.5	597.8	0.72	78.20

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 <sub>mean</sub> cd	Zonal Flux lm	Sum Zonal Flux lm	Rel Zonal Flux %	Sum Rel Zonal Flux %
120.0-121.0	57.7	5.5	603.3	0.71	78.92
121.0-122.0	57.8	5.4	608.7	0.71	79.62
122.0-123.0	57.6	5.3	614.0	0.70	80.32
123.0-124.0	57.4	5.2	619.3	0.69	81.00
124.0-125.0	57.4	5.2	624.4	0.68	81.68
125.0-126.0	57.2	5.1	629.6	0.67	82.35
126.0-127.0	57.1	5.0	634.6	0.66	83.01
127.0-128.0	57.1	5.0	639.6	0.65	83.66
128.0-129.0	57.0	4.9	644.5	0.64	84.30
129.0-130.0	57.0	4.8	649.3	0.63	84.93
130.0-131.0	56.7	4.7	654.0	0.62	85.55
131.0-132.0	56.6	4.6	658.7	0.61	86.16
132.0-133.0	56.5	4.6	663.2	0.60	86.75
133.0-134.0	56.4	4.5	667.7	0.59	87.34
134.0-135.0	56.3	4.4	672.1	0.58	87.92
135.0-136.0	56.1	4.3	676.4	0.56	88.48
136.0-137.0	56.1	4.2	680.7	0.55	89.04
137.0-138.0	56.0	4.1	684.8	0.54	89.58
138.0-139.0	55.5	4.0	688.8	0.53	90.11
139.0-140.0	55.4	3.9	692.8	0.52	90.62
140.0-141.0	55.3	3.9	696.6	0.50	91.13
141.0-142.0	55.0	3.8	700.4	0.49	91.62
142.0-143.0	54.7	3.7	704.1	0.48	92.10
143.0-144.0	54.4	3.5	707.6	0.46	92.56
144.0-145.0	54.0	3.4	711.0	0.45	93.01
145.0-146.0	53.6	3.3	714.4	0.44	93.44
146.0-147.0	53.1	3.2	717.6	0.42	93.87
147.0-148.0	52.5	3.1	720.7	0.40	94.27
148.0-149.0	52.0	3.0	723.6	0.39	94.66
149.0-150.0	51.5	2.9	726.5	0.38	95.03
150.0-151.0	50.9	2.8	729.3	0.36	95.39
151.0-152.0	50.4	2.6	731.9	0.35	95.74
152.0-153.0	49.8	2.5	734.4	0.33	96.07
153.0-154.0	49.3	2.4	736.8	0.32	96.38
154.0-155.0	48.7	2.3	739.1	0.30	96.68
155.0-156.0	48.0	2.2	741.3	0.29	96.97
156.0-157.0	47.4	2.1	743.4	0.27	97.24
157.0-158.0	46.9	2.0	745.4	0.26	97.50
158.0-159.0	46.3	1.9	747.2	0.24	97.74
159.0-160.0	45.7	1.8	749.0	0.23	97.97

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	45.2	1.7	750.6	0.22	98.19
161.0-162.0	44.5	1.5	752.2	0.20	98.39
162.0-163.0	43.8	1.4	753.6	0.19	98.58
163.0-164.0	43.1	1.3	755.0	0.18	98.76
164.0-165.0	42.4	1.2	756.2	0.16	98.92
165.0-166.0	41.7	1.1	757.4	0.15	99.07
166.0-167.0	41.0	1.0	758.4	0.14	99.20
167.0-168.0	40.3	1.0	759.4	0.13	99.33
168.0-169.0	39.4	0.9	760.2	0.11	99.44
169.0-170.0	38.5	0.8	761.0	0.10	99.54
170.0-171.0	37.7	0.7	761.7	0.09	99.63
171.0-172.0	37.0	0.6	762.3	0.08	99.71
172.0-173.0	36.1	0.5	762.8	0.07	99.78
173.0-174.0	35.4	0.4	763.2	0.06	99.84
174.0-175.0	35.1	0.4	763.6	0.05	99.88
175.0-176.0	35.5	0.3	763.9	0.04	99.92
176.0-177.0	36.7	0.2	764.1	0.03	99.96
177.0-178.0	38.0	0.2	764.3	0.02	99.98
178.0-179.0	39.3	0.1	764.4	0.01	100.00
179.0-180.0	39.9	0.0	764.5	0.00	100.00