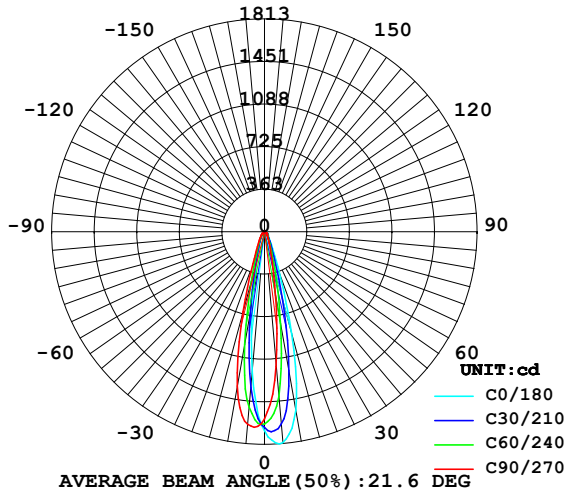
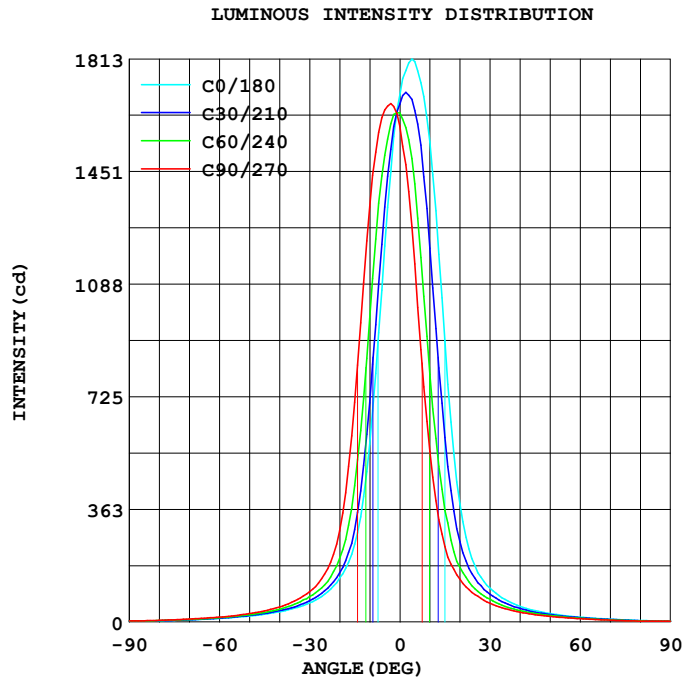


## STREETLIGHT PHOTOMETRIC TEST REPORT

Report number: 0000072

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 G 25D 12W 220VAC 50HZ IP65	TYPE: CROMA GARDENA	WEIGHT: 180mm
SPECIFICATION: CROMA GARDENA 3	DIMENSION: 152R	SERIAL No.: 25.12.2012

TEST DATA:					
MODEL:	CG3 Z509 G 25D 12W 220VAC 50HZ IP65	$\eta$ street_up(%) :	2.2		
NOMINAL POWER (W) :	14	MAXIMUM (C, $\gamma$ ) :	180, 4.0	$\eta$ street_down(%) :	38.3
RATED VOLTAGE (V) :	220	TOTAL FLUX (lm) :	424.3	$\eta$ house_up(%) :	1.8
NOMINAL FLUX (lm) :	424.4	EFFICIENCY (%) :	100.0	$\eta$ house_down(%) :	57.7
TEST FLUX (lm) :	424.3	$\eta$ up(%) :	4.0		
LAMPS QUANTITY :	1	$\eta$ down(%) :	96.0		

INTENSITY DISTRIBUTION DIAGRAM  
IN C PLANSINTENSITY DISTRIBUTION DIAGRAM  
IN C PLANS

Test: U: 220.6V I: 0.116A P: 13.64W PF: 0.532

Test System: LSG-1600  
 Temperature: 22.1 DEG  
 Operators: FATMA KARA  
 Test Date: 12-24-2013

Test Set: 2.0deg/s C-Gamma (TYPE C)  
 Humidity: 49%  
 Test Distance: 9.545 m  
 Remarks: CG3 Z509 G 25D 12W 220VAC 50HZ IP65

## ZONAL FLUX DIAGRAM

Report number: 0000072

MANUFACTURER: Fiberli	Address:PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 G 25D 12W 220VAC 50HZ IP65	TYPE:CROMA GARDENA	WEIGHT:180mm
SPECIFICATION:CROMA GARDENA 3	DIMENSION: 152R	SERIAL No.:25.12.2012

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total
5.0	1211	1400	1649	1767	1804	1543	1153	949.7	0- 5	35.61	35.61
10.0	572.2	812.0	1336	1637	1545	1007	548.9	410.6	5- 10	81.42	117.0
15.0	249.6	341.9	707.1	1151	904.0	468.0	242.3	192.0	10- 15	82.15	199.1
20.0	141.8	167.5	292.9	507.1	379.5	216.8	137.3	116.7	15- 20	56.20	255.3
25.0	89.19	104.7	154.0	214.0	180.4	129.5	88.46	77.34	20- 25	34.83	290.2
30.0	61.40	71.15	97.21	120.4	108.9	85.45	60.22	53.29	25- 30	24.82	315.0
35.0	44.82	49.92	67.14	80.99	72.79	58.76	42.36	38.53	30- 35	19.38	334.4
40.0	32.98	35.80	48.19	56.21	50.29	42.27	31.34	29.24	35- 40	15.53	349.9
45.0	24.96	26.60	35.62	39.81	36.62	31.79	23.50	22.59	40- 45	12.59	362.5
50.0	19.22	19.86	26.96	29.15	27.33	24.23	17.94	17.49	45- 50	10.29	372.8
55.0	14.94	14.94	20.22	21.50	20.31	18.67	13.75	13.75	50- 55	8.398	381.2
60.0	11.57	11.47	15.76	16.30	15.39	14.57	10.56	10.65	55- 60	6.832	388.0
65.0	8.928	8.746	12.20	12.57	11.75	11.29	8.017	8.017	60- 65	5.520	393.6
70.0	6.833	6.559	9.384	9.566	8.928	8.746	5.739	6.104	65- 70	4.379	397.9
75.0	5.101	4.646	7.197	7.288	6.559	6.468	4.008	4.373	70- 75	3.393	401.3
80.0	3.917	3.370	5.284	5.375	4.828	4.646	2.824	3.553	75- 80	2.565	403.9
85.0	3.279	2.642	4.008	3.917	3.370	3.553	2.459	3.097	80- 85	1.979	405.9
90.0	2.915	2.368	3.370	2.824	2.642	3.097	2.277	2.915	85- 90	1.628	407.5
95.0	2.824	2.277	2.915	2.459	2.277	2.915	2.186	2.824	90- 95	1.450	409.0
100.0	2.733	2.186	2.824	2.277	2.277	2.824	2.186	2.824	95-100	1.381	410.3
105.0	2.733	2.277	2.824	2.277	2.277	2.733	2.277	2.733	100-105	1.343	411.7
110.0	2.733	2.277	2.733	2.277	2.277	2.733	2.277	2.733	105-110	1.306	413.0
115.0	2.733	2.277	2.642	2.277	2.277	2.642	2.186	2.733	110-115	1.258	414.3
120.0	2.642	2.277	2.642	2.277	2.368	2.642	2.277	2.642	115-120	1.206	415.5
125.0	2.642	2.368	2.642	2.277	2.368	2.642	2.368	2.642	120-125	1.144	416.6
130.0	2.733	2.368	2.642	2.368	2.368	2.642	2.368	2.642	125-130	1.082	417.7
135.0	2.733	2.459	2.642	2.368	2.368	2.642	2.459	2.642	130-135	1.012	418.7
140.0	2.824	2.459	2.642	2.368	2.459	2.642	2.459	2.733	135-140	0.941	419.6
145.0	2.915	2.550	2.642	2.459	2.550	2.733	2.642	3.006	140-145	0.878	420.5
150.0	3.188	2.824	2.733	2.550	2.642	2.915	2.915	3.370	145-150	0.823	421.3
155.0	3.553	3.279	2.915	2.733	2.824	3.188	3.279	3.826	150-155	0.776	422.1
160.0	4.008	3.644	3.279	3.188	3.188	3.644	3.735	4.099	155-160	0.718	422.8
165.0	4.190	4.008	3.735	3.644	3.644	3.917	4.008	4.099	160-165	0.619	423.5
170.0	4.190	4.099	4.099	4.008	4.008	4.008	4.008	4.008	165-170	0.472	423.9
175.0	4.099	4.099	4.190	4.099	4.190	4.099	4.008	3.917	170-175	0.290	424.2
180.0	4.099	4.008	4.099	4.008	4.190	4.099	4.099	4.008	175-180	0.097	424.3
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

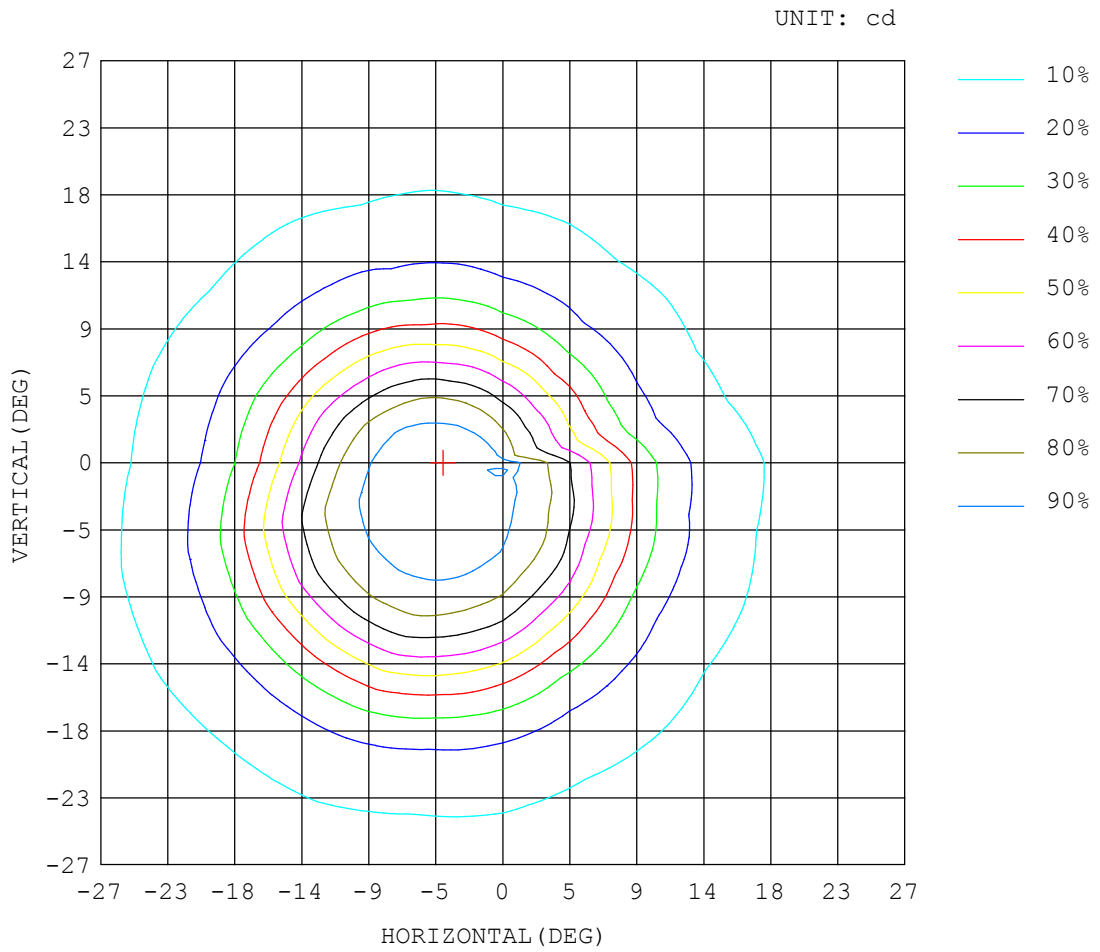
Test System:LSG-1600  
Temperature:22.1DEG  
Operators:FATMA KARA  
Test Date:12-24-2013

Test Set: 2.0deg/s C-Gamma (TYPE C)  
Humidity:49%  
Test Distance:9.545 m  
Remarks: CG3 Z509 G 25D 12W 220VAC 50HZ IP65

## ISOCANDELA DIAGRAM

Report number: 0000072

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 G 25D 12W 220VAC 50HZ IP65	TYPE: CROMA GARDENA	WEIGHT: 180mm
SPECIFICATION: CROMA GARDENA 3	DIMENSION: 152R	SERIAL No.: 25.12.2012



Test System: LSG-1600  
 Temperature: 22.1 DEG  
 Operators: FATMA KARA  
 Test Date: 12-24-2013

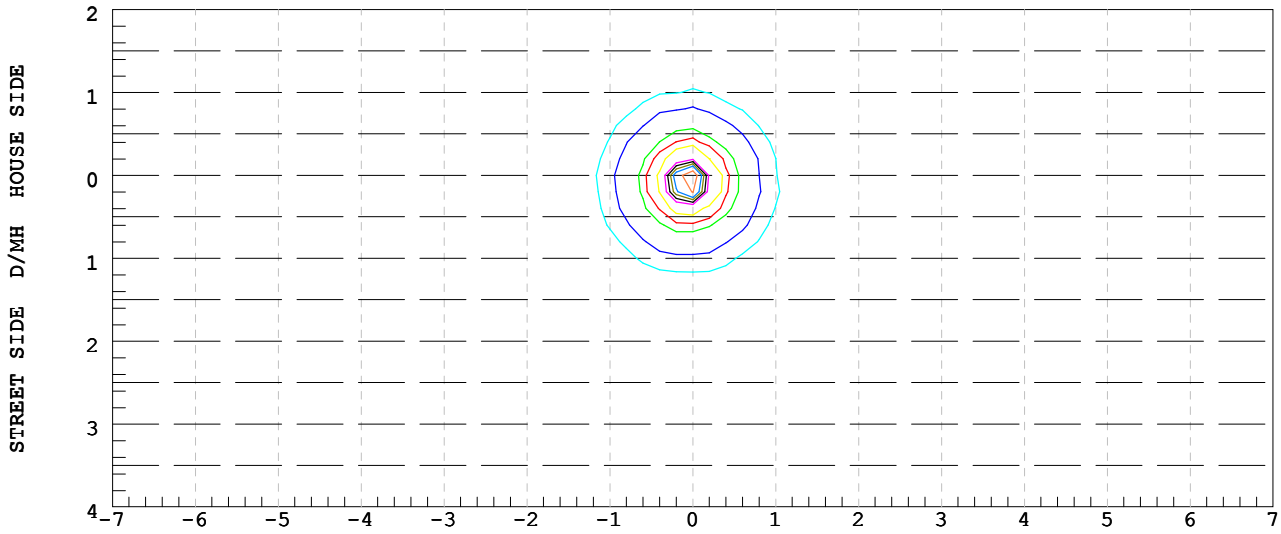
Test Set: 2.0 deg/s C-Gamma (TYPE C)  
 Humidity: 49%  
 Test Distance: 9.545 m  
 Remarks: CG3 Z509 G 25D 12W 220VAC 50HZ IP65

## ISOLUX DIAGRAM

Report number: 0000072

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 G 25D 12W 220VAC 50HZ IP65	TYPE: CROMA GARDENA	WEIGHT: 180mm
SPECIFICATION: CROMA GARDENA 3	DIMENSION: 152R	SERIAL No.: 25.12.2012

ILLUMINANCE AT MH=10 m, Enadir = 15.98 lx



0.080	0.160	0.480	0.800	1.6
4.8	6.4	8.0	9.6	13

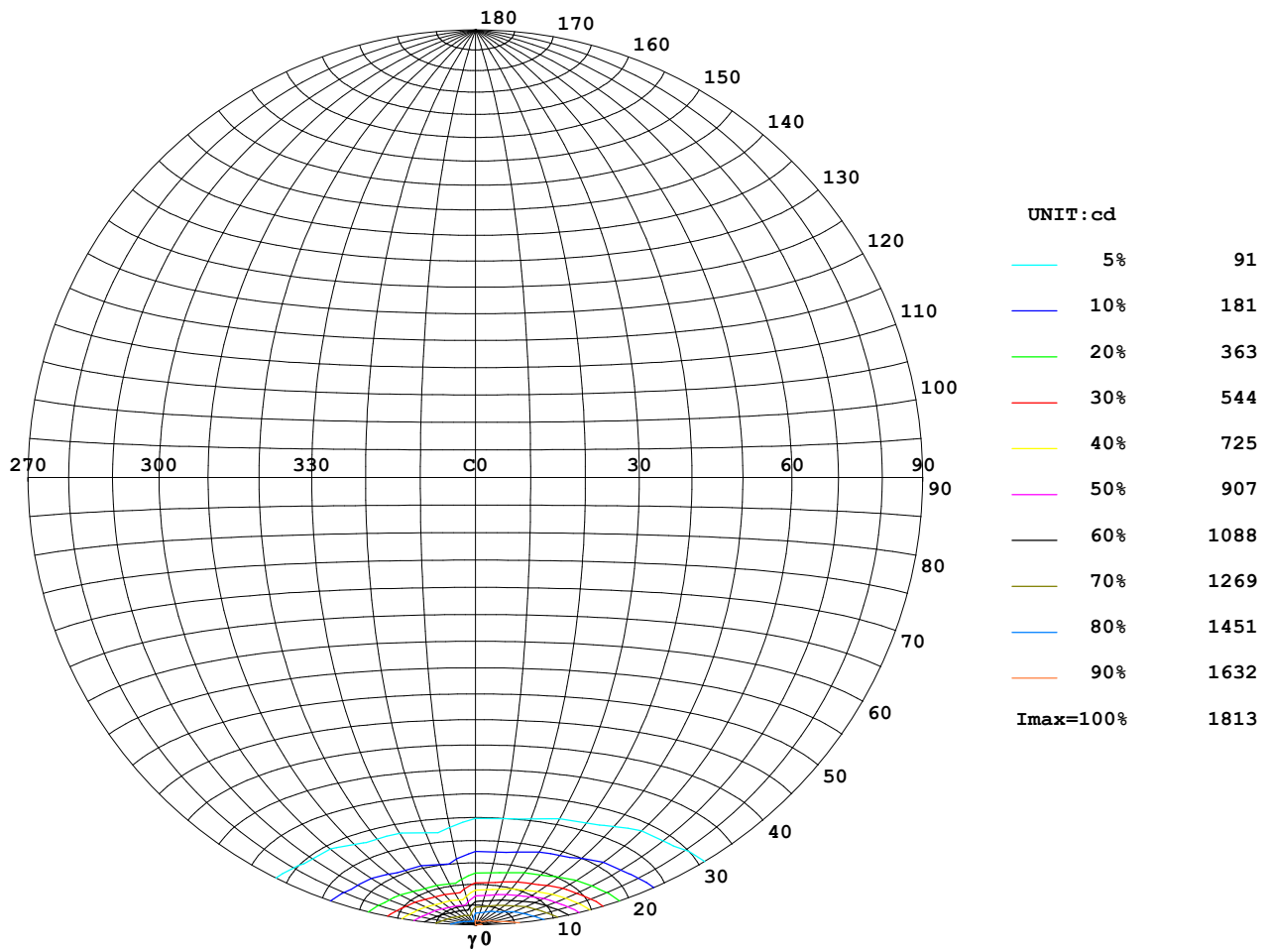
Test System: LSG-1600  
 Temperature: 22.1 DEG  
 Operators: FATMA KARA  
 Test Date: 12-24-2013

Test Set: 2.0 deg/s C-Gamma (TYPE C)  
 Humidity: 49%  
 Test Distance: 9.545 m  
 Remarks: CG3 Z509 G 25D 12W 220VAC 50HZ IP65

## ISOCANDELA DIAGRAM

Report number: 0000072

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 G 25D 12W 220VAC 50HZ IP65	TYPE: CROMA GARDENA	WEIGHT: 180mm
SPECIFICATION: CROMA GARDENA 3	DIMENSION: 152R	SERIAL No.: 25.12.2012



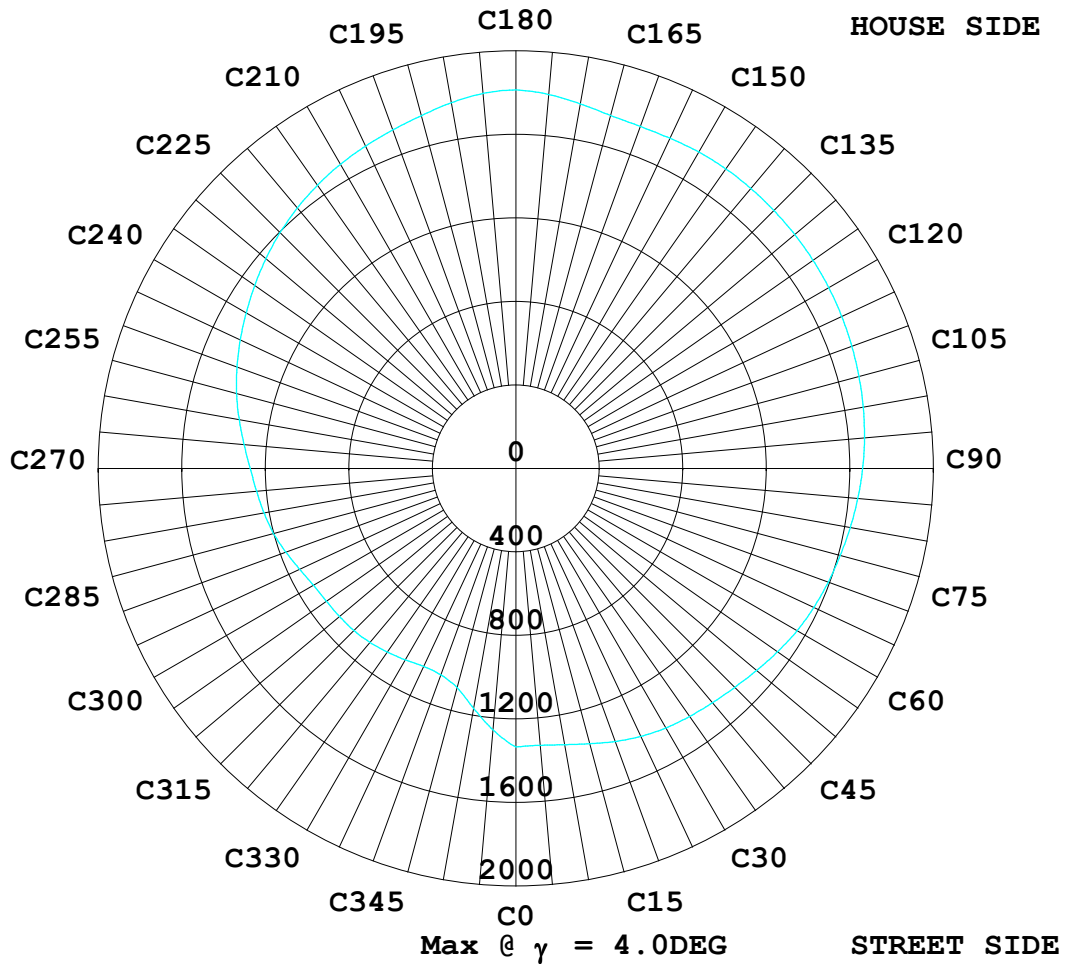
Test System: LSG-1600  
 Temperature: 22.1 DEG  
 Operators: FATMA KARA  
 Test Date: 12-24-2013

Test Set: 2.0 deg/s C-Gamma (TYPE C)  
 Humidity: 49%  
 Test Distance: 9.545 m  
 Remarks: CG3 Z509 G 25D 12W 220VAC 50HZ IP65

## ISOCANDELA DIAGRAM

Report number: 0000072

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 G 25D 12W 220VAC 50HZ IP65	TYPE: CROMA GARDENA	WEIGHT: 180mm
SPECIFICATION: CROMA GARDENA 3	DIMENSION: 152R	SERIAL No.: 25.12.2012



Test System: LSG-1600  
 Temperature: 22.1DEG  
 Operators: FATMA KARA  
 Test Date: 12-24-2013

Test Set: 2.0deg/s C-Gamma (TYPE C)  
 Humidity: 49%  
 Test Distance: 9.545 m  
 Remarks: CG3 Z509 G 25D 12W 220VAC 50HZ IP65

## LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 0000072

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 G 25D 12W 220VAC 50HZ IP65	TYPE: CROMA GARDENA	WEIGHT: 180mm
SPECIFICATION: CROMA GARDENA 3	DIMENSION: 152R	SERIAL No.: 25.12.2012

UNIT: cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210
0.0	1696	1675	1667	1652	1640	1620	1598	1581	1558	1554	1537	1547	1696	1675	1667
5.0	1211	1236	1336	1400	1502	1573	1649	1702	1747	1767	1774	1769	1804	1743	1647
10.0	572	611	705	812	978	1136	1336	1477	1592	1637	1651	1634	1545	1412	1203
15.0	250	257	297	342	438	539	707	871	1051	1151	1195	1140	904	763	594
20.0	142	140	158	168	205	234	293	352	450	507	545	509	380	328	259
25.0	89.1	90.8	100	105	119	129	154	167	199	214	234	220	180	167	141
30.0	61.4	60.0	68.2	71.1	81.5	85.4	97.2	102	118	120	132	124	109	106	89.2
35.0	44.8	42.6	48.3	49.9	56.7	57.8	67.1	68.6	80.3	80.9	87.3	81.8	72.7	70.8	61.3
40.0	32.9	31.7	36.1	35.8	41.0	41.5	48.1	48.3	55.8	56.2	60.7	56.7	50.2	50.0	43.7
45.0	24.9	23.8	27.1	26.6	30.4	30.8	35.6	35.2	40.0	39.8	43.2	40.2	36.6	36.6	31.7
50.0	19.2	18.1	20.6	19.8	23.3	22.9	26.9	26.0	29.9	29.1	31.9	28.8	27.3	27.8	24.0
55.0	14.9	13.8	15.8	14.9	17.8	17.2	20.2	19.5	22.6	21.5	23.7	21.4	20.3	21.4	18.3
60.0	11.5	10.4	12.2	11.4	13.8	13.2	15.7	14.7	17.4	16.3	18.1	16.1	15.3	16.4	13.9
65.0	8.92	7.92	9.56	8.74	10.6	9.93	12.2	11.2	13.4	12.5	14.0	12.3	11.7	12.7	10.6
70.0	6.83	5.73	7.19	6.55	8.10	7.56	9.38	8.74	10.4	9.56	11.0	9.56	8.92	9.83	8.19
75.0	5.10	4.37	5.37	4.64	6.19	5.55	7.19	6.74	8.19	7.28	8.47	7.28	6.55	7.47	6.10
80.0	3.91	3.00	4.00	3.37	4.64	4.19	5.28	4.64	6.28	5.37	6.37	5.19	4.82	5.55	4.00
85.0	3.27	2.55	3.37	2.64	3.64	3.00	4.00	3.46	4.55	3.91	4.73	3.73	3.37	4.09	2.91
90.0	2.91	2.27	3.00	2.36	3.09	2.45	3.37	2.64	3.55	2.82	3.64	2.73	2.64	3.37	2.45
95.0	2.82	2.18	2.82	2.27	2.91	2.18	2.91	2.27	3.09	2.45	3.18	2.36	2.27	2.91	2.27
100.0	2.73	2.27	2.82	2.18	2.73	2.18	2.82	2.27	2.82	2.27	2.91	2.27	2.27	2.82	2.18
105.0	2.73	2.18	2.73	2.27	2.73	2.27	2.82	2.18	2.82	2.27	2.82	2.27	2.27	2.82	2.18
110.0	2.73	2.27	2.73	2.27	2.64	2.27	2.73	2.27	2.73	2.27	2.82	2.18	2.27	2.73	2.27
115.0	2.73	2.27	2.64	2.27	2.73	2.18	2.64	2.27	2.73	2.27	2.73	2.27	2.27	2.73	2.27
120.0	2.64	2.27	2.64	2.27	2.73	2.27	2.64	2.27	2.73	2.27	2.73	2.27	2.36	2.64	2.27
125.0	2.64	2.36	2.64	2.36	2.64	2.27	2.64	2.36	2.64	2.27	2.64	2.27	2.36	2.64	2.27
130.0	2.73	2.36	2.64	2.36	2.64	2.27	2.64	2.36	2.64	2.36	2.64	2.36	2.36	2.64	2.27
135.0	2.73	2.36	2.64	2.45	2.64	2.36	2.64	2.36	2.64	2.36	2.64	2.36	2.36	2.64	2.36
140.0	2.82	2.45	2.73	2.45	2.64	2.36	2.64	2.36	2.64	2.36	2.64	2.45	2.45	2.64	2.36
145.0	2.91	2.73	2.82	2.55	2.73	2.45	2.64	2.45	2.64	2.45	2.64	2.45	2.55	2.64	2.55
150.0	3.18	3.00	3.09	2.82	2.91	2.64	2.73	2.55	2.73	2.55	2.73	2.55	2.64	2.73	2.64
155.0	3.55	3.46	3.55	3.27	3.18	2.82	2.91	2.82	2.91	2.73	2.91	2.73	2.82	3.00	2.91
160.0	4.00	3.91	3.91	3.64	3.55	3.18	3.27	3.18	3.27	3.18	3.27	3.09	3.18	3.27	3.27
165.0	4.19	4.19	4.19	4.00	3.91	3.64	3.73	3.55	3.73	3.64	3.64	3.55	3.64	3.73	3.73
170.0	4.19	4.19	4.19	4.09	4.09	4.00	4.09	3.91	4.00	4.00	4.00	3.91	4.00	4.00	4.00
175.0	4.09	4.09	4.09	4.09	4.09	4.09	4.19	4.19	4.19	4.09	4.09	4.09	4.19	4.09	4.00
180.0	4.09	4.09	4.00	4.00	4.00	4.00	4.09	4.09	4.00	4.00	4.00	4.00	4.19	4.09	4.00

Test System: LSG-1600  
 Temperature: 22.1 DEG  
 Operators: FATMA KARA  
 Test Date: 12-24-2013

Test Set: 2.0deg/s C-Gamma (TYPE C)  
 Humidity: 49%  
 Test Distance: 9.545 m  
 Remarks: CG3 Z509 G 25D 12W 220VAC 50HZ IP65

## LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 0000072

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 G 25D 12W 220VAC 50HZ IP65	TYPE: CROMA GARDENA	WEIGHT: 180mm
SPECIFICATION: CROMA GARDENA 3	DIMENSION: 152R	SERIAL No.: 25.12.2012

UNIT: cd

C (DEG) γ (DEG)	225	240	255	270	285	300	315	330	345
0.0	1652	1640	1620	1598	1581	1558	1554	1537	1547
5.0	1543	1410	1277	1153	1060	983	950	918	939
10.0	1007	797	669	549	484	419	411	391	410
15.0	468	359	300	242	219	193	192	181	192
20.0	217	176	162	137	131	115	117	108	113
25.0	130	107	102	88.4	85.4	75.9	77.3	71.3	75.3
30.0	85.4	73.6	69.4	60.2	59.5	52.2	53.2	48.3	52.2
35.0	58.7	50.4	49.5	42.3	42.7	37.4	38.5	34.7	37.8
40.0	42.2	36.3	35.8	31.3	31.9	28.1	29.2	26.2	28.4
45.0	31.7	27.3	27.6	23.5	24.1	21.5	22.5	20.0	22.1
50.0	24.2	20.9	21.3	17.9	18.6	16.3	17.4	15.3	17.2
55.0	18.6	15.9	16.4	13.7	14.5	12.5	13.7	11.9	13.4
60.0	14.5	12.2	12.8	10.5	11.3	9.56	10.6	9.11	10.4
65.0	11.2	9.20	9.83	8.01	8.74	7.19	8.01	6.83	8.01
70.0	8.74	6.83	7.37	5.73	6.46	5.10	6.10	4.82	6.01
75.0	6.46	4.82	5.46	4.00	4.73	3.64	4.37	3.46	4.37
80.0	4.64	3.37	4.00	2.82	3.64	2.82	3.55	2.64	3.46
85.0	3.55	2.73	3.27	2.45	3.18	2.36	3.09	2.36	3.09
90.0	3.09	2.36	3.00	2.27	2.91	2.18	2.91	2.27	2.91
95.0	2.91	2.18	2.82	2.18	2.82	2.18	2.82	2.18	2.73
100.0	2.82	2.18	2.73	2.18	2.73	2.27	2.82	2.27	2.73
105.0	2.73	2.27	2.73	2.27	2.73	2.27	2.73	2.27	2.73
110.0	2.73	2.27	2.73	2.27	2.73	2.27	2.73	2.27	2.73
115.0	2.64	2.27	2.64	2.18	2.64	2.27	2.73	2.27	2.64
120.0	2.64	2.27	2.64	2.27	2.64	2.27	2.64	2.27	2.64
125.0	2.64	2.27	2.64	2.36	2.64	2.36	2.64	2.27	2.73
130.0	2.64	2.36	2.64	2.36	2.64	2.36	2.64	2.36	2.64
135.0	2.64	2.36	2.64	2.45	2.64	2.45	2.64	2.36	2.64
140.0	2.64	2.45	2.64	2.45	2.73	2.55	2.73	2.55	2.73
145.0	2.73	2.55	2.73	2.64	2.91	2.82	3.00	2.82	2.91
150.0	2.91	2.82	3.00	2.91	3.18	3.09	3.37	3.18	3.27
155.0	3.18	3.18	3.37	3.27	3.55	3.55	3.82	3.64	3.64
160.0	3.64	3.64	3.82	3.73	3.91	3.91	4.09	3.91	4.00
165.0	3.91	3.91	4.09	4.00	4.00	3.91	4.09	4.00	4.09
170.0	4.00	4.00	4.09	4.00	4.00	3.91	4.00	3.91	4.00
175.0	4.09	3.91	4.09	4.00	4.00	3.91	3.91	3.91	4.00
180.0	4.09	4.00	4.09	4.09	4.09	4.00	4.00	4.00	4.00

Test System: LSG-1600  
 Temperature: 22.1 DEG  
 Operators: FATMA KARA  
 Test Date: 12-24-2013

Test Set: 2.0deg/s C-Gamma (TYPE C)  
 Humidity: 49%  
 Test Distance: 9.545 m  
 Remarks: CG3 Z509 G 25D 12W 220VAC 50HZ IP65