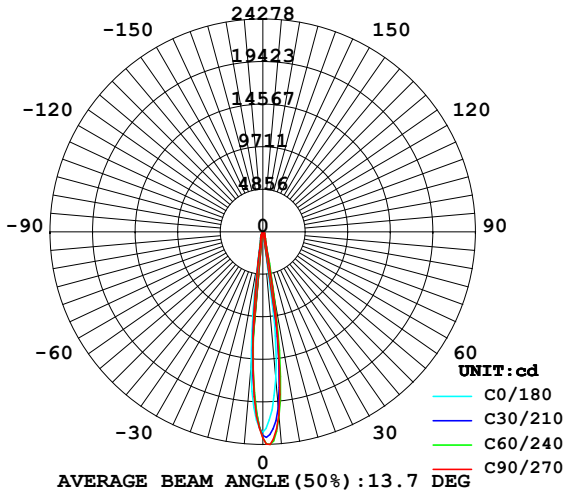
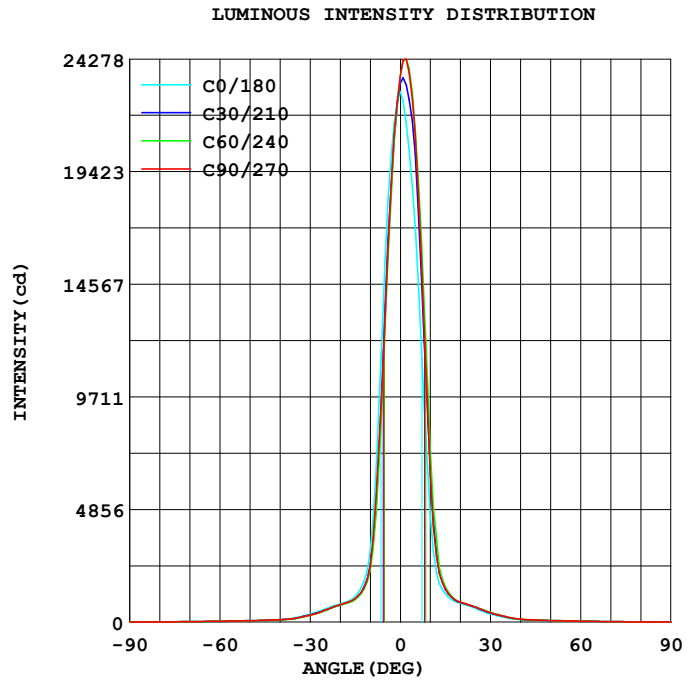


STREETLIGHT PHOTOMETRIC TEST REPORT

Report number: 0000302

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 PW 10D 12W 220VAC 50HZ IP65	TYPE: CROMA GARDENA	WEIGHT:
SPECIFICATION: CROMA GARDENA 3	DIMENSION: 200X92mm	SERIAL No.: 20566438

TEST DATA:					
MODEL:	CG3 Z509 PW 10D 12W 220VAC 50HZ IP65	η street_up(%) :	0.7		
NOMINAL POWER(W) :	22	MAXIMUM(C, γ) :	255,2.0	η street_down(%) :	48.1
RATED VOLTAGE(V) :	220	TOTAL FLUX(lm) :	1940	η house_up(%) :	0.6
NOMINAL FLUX(lm) :	1940.5	EFFICIENCY(%) :	100.0	η house_down(%) :	50.6
TEST FLUX(lm) :	1940	η up(%) :	1.3		
LAMPS QUANTITY:	1	η down(%) :	98.7		

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSINTENSITY DISTRIBUTION DIAGRAM
IN C PLANS

Test: U:220.3V I:0.109A P:22.13W PF:0.920

Test System: LSG-1600
 Temperature: 21 DEG
 Operators: FATMA KARA
 Test Date: 02-28-2014

Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity: 56%
 Test Distance: 9.545 m
 Remarks: CG3 Z509 PW 10D 12W 220VAC 50HZ IP65

ZONAL FLUX DIAGRAM

Report number: 0000302

MANUFACTURER: Fiberli	Address:PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 PW 10D 12W 220VAC 50HZ IP65	TYPE:CROMA GARDENA	WEIGHT:
SPECIFICATION:CROMA GARDENA 3	DIMENSION: 200X92mm	SERIAL No.:20566438

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total
5.0	1571	1277	1323	1588	1706	2100	2099	1712	0- 5	454.4	454.4
10.0	301.2	219.5	237.4	391.0	464.4	742.5	636.4	338.1	5- 10	584.0	1039
15.0	109.9	95.63	100.9	112.5	122.2	152.6	144.1	115.2	10- 15	213.6	1252
20.0	78.51	71.72	75.61	76.60	81.61	87.28	86.22	77.93	15- 20	148.1	1400
25.0	56.43	48.53	51.07	55.24	59.74	66.15	65.13	57.06	20- 25	138.8	1539
30.0	34.17	29.76	29.54	33.17	35.14	42.31	40.93	36.13	25- 30	109.1	1648
35.0	18.48	14.25	16.40	16.72	19.37	24.80	23.49	18.91	30- 35	73.23	1722
40.0	10.93	9.046	10.66	9.839	11.15	12.62	12.98	10.58	35- 40	44.50	1766
45.0	7.990	6.814	8.017	7.479	8.135	9.065	9.056	7.853	40- 45	33.41	1799
50.0	6.186	5.384	6.231	5.739	6.195	6.942	6.732	6.076	45- 50	27.55	1827
55.0	4.956	4.209	4.919	4.555	4.919	5.621	5.284	4.865	50- 55	23.39	1850
60.0	3.844	3.152	3.817	3.598	3.872	4.373	4.108	3.762	55- 60	19.59	1870
65.0	2.751	2.259	2.778	2.642	2.824	3.225	2.924	2.705	60- 65	15.33	1885
70.0	1.940	1.521	1.958	1.840	1.967	2.314	2.059	1.922	65- 70	11.38	1897
75.0	1.257	0.966	1.275	1.193	1.257	1.594	1.366	1.284	70- 75	7.949	1905
80.0	0.784	0.592	0.820	0.711	0.747	1.011	0.829	0.820	75- 80	5.134	1910
85.0	0.519	0.355	0.556	0.410	0.456	0.692	0.519	0.519	80- 85	3.277	1913
90.0	0.428	0.301	0.456	0.319	0.328	0.474	0.364	0.437	85- 90	2.305	1915
95.0	0.383	0.273	0.401	0.273	0.264	0.410	0.292	0.392	90- 95	1.948	1917
100.0	0.346	0.255	0.337	0.255	0.255	0.364	0.246	0.355	95-100	1.698	1919
105.0	0.328	0.255	0.328	0.255	0.246	0.346	0.246	0.328	100-105	1.581	1921
110.0	0.328	0.255	0.328	0.255	0.255	0.328	0.246	0.328	105-110	1.520	1922
115.0	0.319	0.255	0.319	0.255	0.264	0.319	0.255	0.319	110-115	1.462	1924
120.0	0.319	0.264	0.319	0.264	0.264	0.319	0.255	0.310	115-120	1.403	1925
125.0	0.319	0.273	0.319	0.273	0.273	0.310	0.264	0.310	120-125	1.346	1926
130.0	0.328	0.292	0.328	0.282	0.282	0.319	0.273	0.310	125-130	1.290	1928
135.0	0.337	0.319	0.337	0.301	0.301	0.319	0.292	0.319	130-135	1.245	1929
140.0	0.355	0.346	0.364	0.328	0.319	0.337	0.310	0.337	135-140	1.212	1930
145.0	0.383	0.392	0.401	0.374	0.355	0.355	0.337	0.364	140-145	1.185	1931
150.0	0.465	0.528	0.510	0.456	0.410	0.392	0.374	0.419	145-150	1.198	1932
155.0	0.656	0.893	0.738	0.756	0.565	0.538	0.492	0.629	150-155	1.428	1934
160.0	0.975	1.339	1.047	1.202	0.893	0.920	0.756	1.038	155-160	1.850	1936
165.0	1.266	1.548	1.248	1.503	1.211	1.348	1.075	1.403	160-165	2.015	1938
170.0	1.311	1.348	1.257	1.393	1.311	1.439	1.211	1.339	165-170	1.595	1939
175.0	1.138	1.002	1.065	1.093	1.175	1.157	1.111	1.047	170-175	0.858	1940
180.0	1.002	0.884	0.957	0.911	1.002	0.893	0.957	0.920	175-180	0.238	1940
DEG	LUMINOUS INTENSITY:;Å10cd									UNIT:lm	

Test System:LSG-1600
 Temperature:21DEG
 Operators:FATMA KARA
 Test Date:02-28-2014

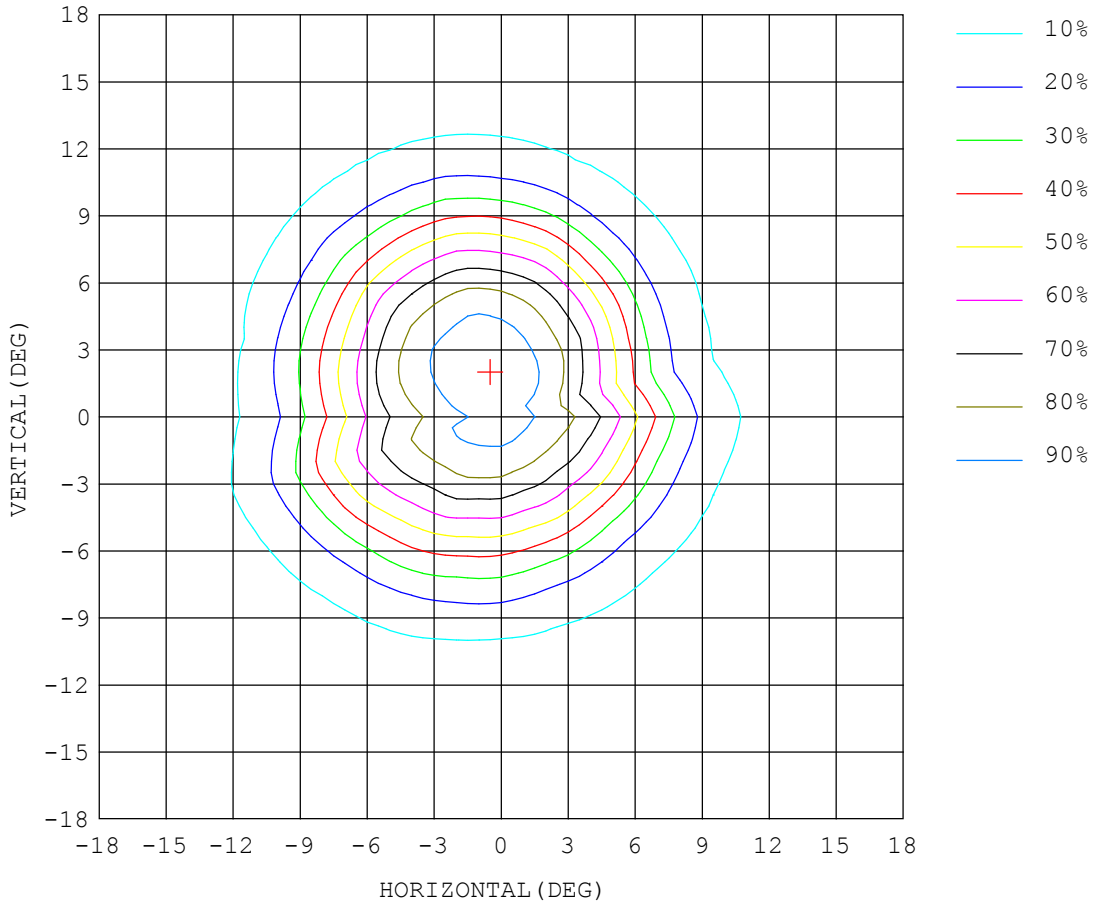
Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity:56%
 Test Distance:9.545 m
 Remarks: CG3 Z509 PW 10D 12W 220VAC 50HZ IP65

ISOCANDELA DIAGRAM

Report number: 0000302

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 PW 10D 12W 220VAC 50HZ IP65	TYPE: CROMA GARDENA	WEIGHT:
SPECIFICATION: CROMA GARDENA 3	DIMENSION: 200X92mm	SERIAL No.: 20566438

UNIT: cd



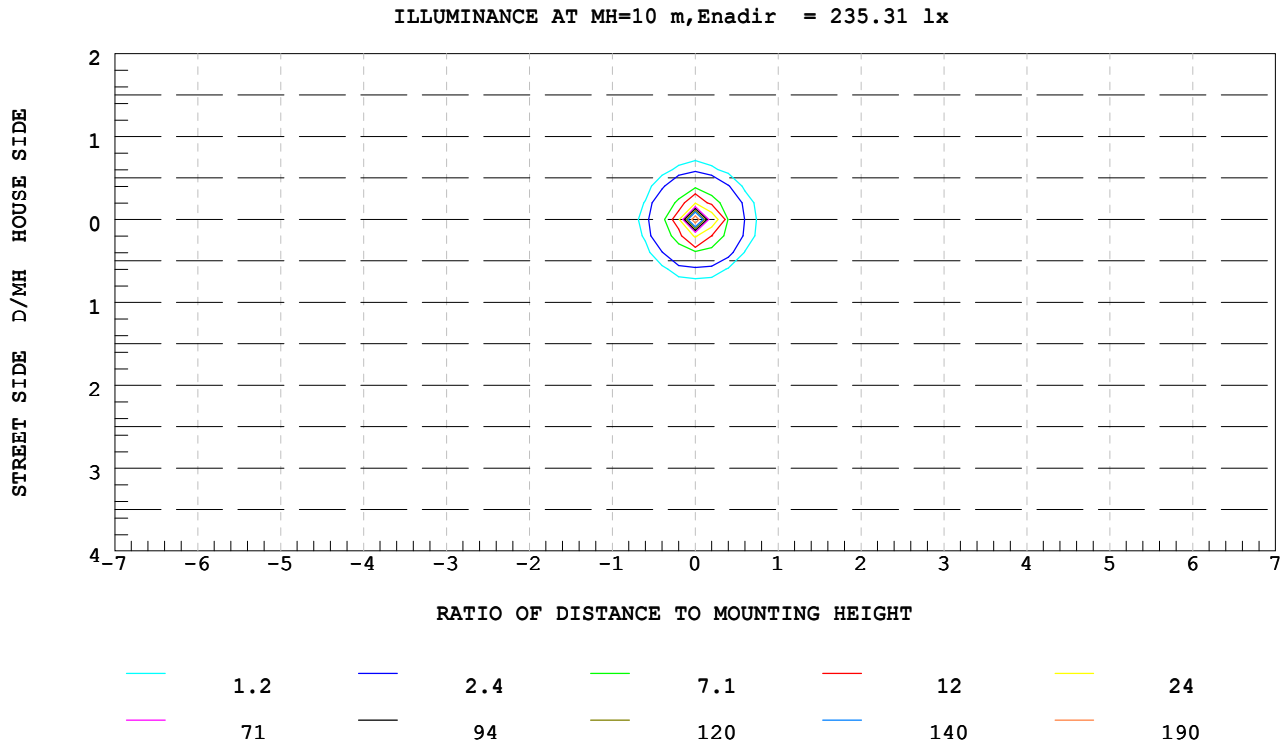
Test System: LSG-1600
Temperature: 21 DEG
Operators: FATMA KARA
Test Date: 02-28-2014

Test Set: 2.0 deg/s C-Gamma (TYPE C)
Humidity: 56%
Test Distance: 9.545 m
Remarks: CG3 Z509 PW 10D 12W 220VAC 50HZ IP65

ISOLUX DIAGRAM

Report number: 0000302

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 PW 10D 12W 220VAC 50HZ IP65	TYPE: CROMA GARDENA	WEIGHT:
SPECIFICATION: CROMA GARDENA 3	DIMENSION: 200X92mm	SERIAL No.: 20566438



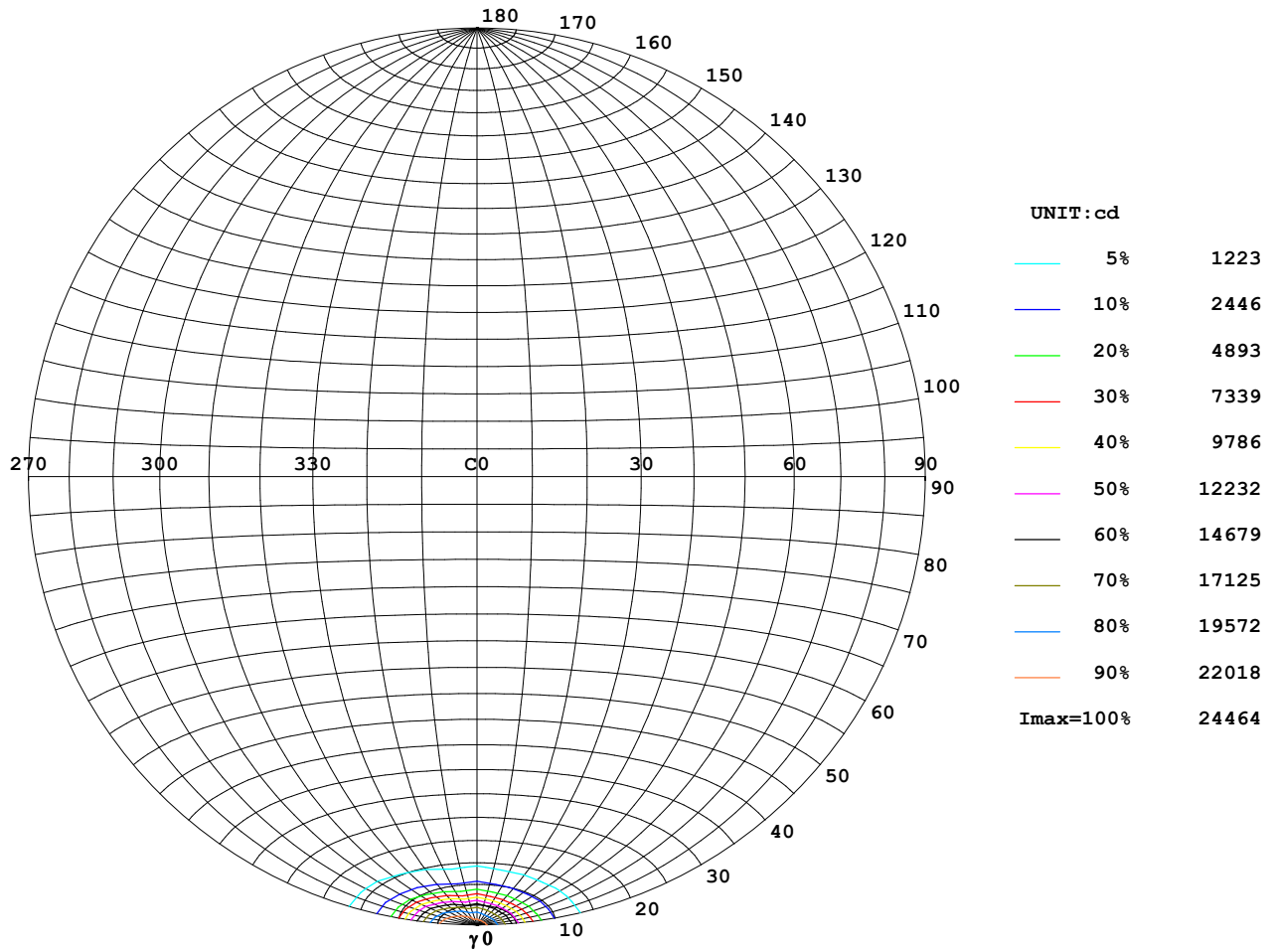
Test System: LSG-1600
 Temperature: 21 DEG
 Operators: FATMA KARA
 Test Date: 02-28-2014

Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity: 56%
 Test Distance: 9.545 m
 Remarks: CG3 Z509 PW 10D 12W 220VAC 50HZ IP65

ISOCANDELA DIAGRAM

Report number: 0000302

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 PW 10D 12W 220VAC 50HZ IP65	TYPE: CROMA GARDENA	WEIGHT:
SPECIFICATION: CROMA GARDENA 3	DIMENSION: 200X92mm	SERIAL No.: 20566438



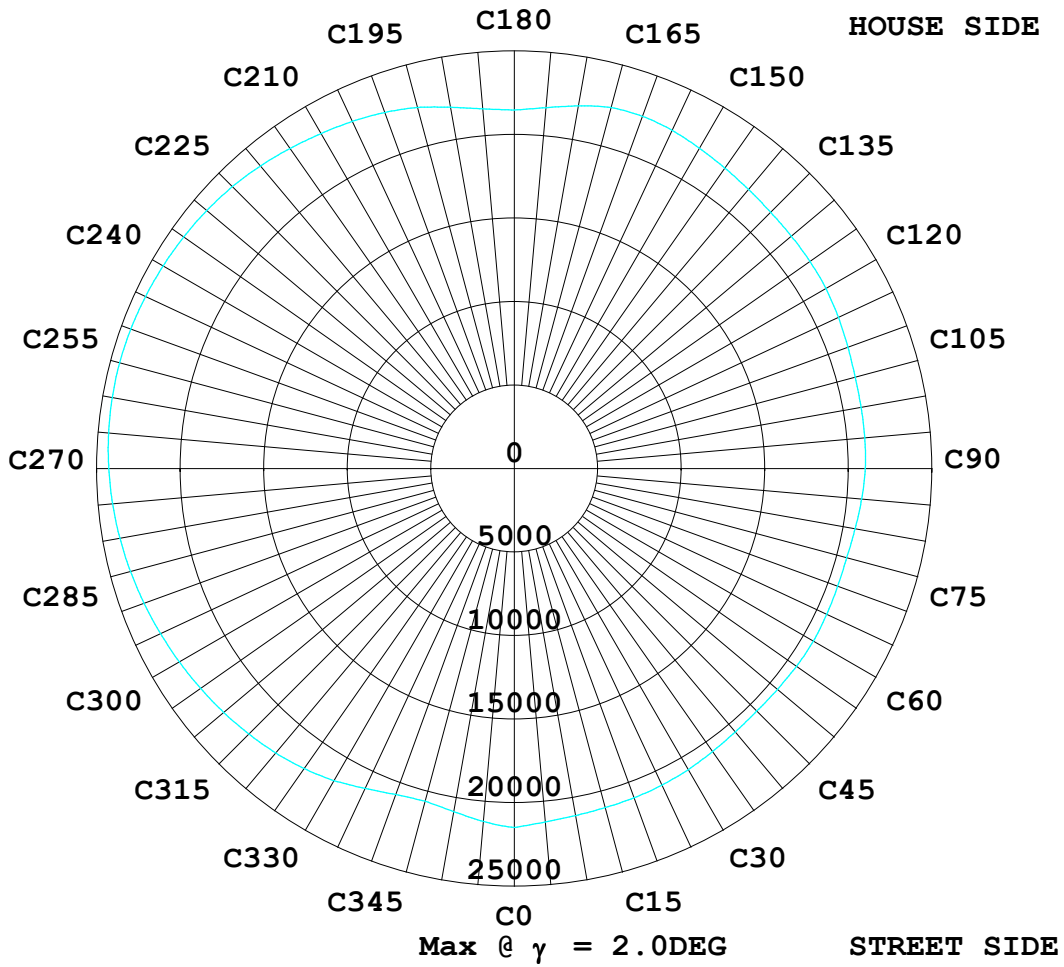
Test System: LSG-1600
 Temperature: 21 DEG
 Operators: FATMA KARA
 Test Date: 02-28-2014

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ISOCANDELA DIAGRAM

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MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 PW 10D 12W 220VAC 50HZ IP65	TYPE: CROMA GARDENA	WEIGHT:
SPECIFICATION: CROMA GARDENA 3	DIMENSION: 200X92mm	SERIAL No.: 20566438



Test System: LSG-1600
 Temperature: 21DEG
 Operators: FATMA KARA
 Test Date: 02-28-2014

Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity: 56%
 Test Distance: 9.545 m
 Remarks: CG3 Z509 PW 10D 12W 220VAC 50HZ IP65

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 0000302

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 PW 10D 12W 220VAC 50HZ IP65	TYPE: CROMA GARDENA	WEIGHT:
SPECIFICATION: CROMA GARDENA 3	DIMENSION: 200X92mm	SERIAL No.: 20566438

UNIT: $\text{lm}/\text{m}^2/\text{sr}$

C (DEG)																
γ (DEG)		0	15	30	45	60	75	90	105	120	135	150	165	180	195	210
0.0		2288	2308	2322	2338	2351	2350	2353	2339	2331	2303	2283	2252	2288	2308	2322
5.0		1571	1429	1363	1277	1278	1256	1323	1374	1511	1588	1720	1818	1706	1892	2017
10.0		301	257	241	220	221	218	237	264	329	391	508	617	464	589	654
15.0		110	102	99.1	95.6	96.8	97.3	101	103	108	113	123	132	122	134	142
20.0		78.5	74.9	74.1	71.7	73.0	72.8	75.6	75.3	76.9	76.6	80.1	81.5	81.6	84.7	84.7
25.0		56.4	51.9	51.2	48.5	49.1	48.2	51.0	51.2	54.3	55.2	59.6	61.9	59.7	63.3	63.5
30.0		34.1	32.0	31.4	29.7	29.2	28.3	29.5	29.7	31.9	33.1	36.2	37.8	35.1	38.5	39.9
35.0		18.4	16.0	15.8	14.2	15.1	14.6	16.4	15.6	17.0	16.7	19.5	20.6	19.3	21.9	22.5
40.0		10.9	9.74	9.90	9.04	9.75	9.47	10.6	9.93	10.4	9.83	10.9	11.2	11.1	12.2	11.8
45.0		7.99	7.15	7.43	6.81	7.35	7.08	8.01	7.49	7.97	7.47	8.19	8.11	8.13	8.89	8.59
50.0		6.18	5.58	5.82	5.38	5.76	5.52	6.23	5.91	6.21	5.73	6.30	6.21	6.19	6.77	6.56
55.0		4.95	4.50	4.64	4.20	4.61	4.41	4.91	4.63	4.91	4.55	5.03	4.98	4.91	5.42	5.19
60.0		3.84	3.38	3.57	3.15	3.57	3.33	3.81	3.55	3.85	3.59	4.01	3.87	3.87	4.30	4.09
65.0		2.75	2.35	2.56	2.25	2.54	2.35	2.77	2.56	2.86	2.64	3.08	2.88	2.82	3.22	2.97
70.0		1.94	1.60	1.80	1.52	1.76	1.58	1.95	1.74	2.04	1.84	2.17	2.03	1.96	2.30	2.07
75.0		1.25	0.99	1.15	0.97	1.14	0.98	1.27	1.11	1.33	1.19	1.46	1.36	1.25	1.53	1.33
80.0		0.78	0.59	0.73	0.59	0.74	0.61	0.82	0.68	0.85	0.71	0.95	0.83	0.75	0.98	0.80
85.0		0.52	0.36	0.49	0.36	0.50	0.38	0.56	0.42	0.56	0.41	0.61	0.51	0.46	0.63	0.48
90.0		0.43	0.30	0.42	0.30	0.43	0.32	0.46	0.33	0.45	0.32	0.46	0.34	0.33	0.46	0.34
95.0		0.38	0.27	0.38	0.27	0.38	0.28	0.40	0.29	0.38	0.27	0.39	0.28	0.26	0.39	0.29
100.0		0.35	0.26	0.35	0.26	0.35	0.26	0.34	0.26	0.35	0.26	0.35	0.25	0.26	0.36	0.26
105.0		0.33	0.26	0.34	0.26	0.34	0.26	0.33	0.25	0.33	0.26	0.34	0.25	0.25	0.34	0.26
110.0		0.33	0.26	0.33	0.26	0.33	0.26	0.33	0.26	0.32	0.26	0.33	0.25	0.26	0.33	0.26
115.0		0.32	0.26	0.32	0.26	0.33	0.26	0.32	0.26	0.32	0.26	0.32	0.26	0.26	0.33	0.26
120.0		0.32	0.26	0.32	0.26	0.32	0.26	0.32	0.26	0.31	0.26	0.32	0.26	0.26	0.32	0.26
125.0		0.32	0.27	0.32	0.27	0.32	0.28	0.32	0.27	0.32	0.27	0.32	0.26	0.27	0.32	0.26
130.0		0.33	0.28	0.33	0.29	0.33	0.29	0.33	0.29	0.32	0.28	0.32	0.27	0.28	0.32	0.27
135.0		0.34	0.31	0.34	0.32	0.35	0.32	0.34	0.31	0.34	0.30	0.33	0.29	0.30	0.33	0.29
140.0		0.36	0.34	0.36	0.35	0.36	0.35	0.36	0.34	0.36	0.33	0.35	0.32	0.32	0.35	0.31
145.0		0.38	0.37	0.40	0.39	0.41	0.39	0.40	0.38	0.39	0.37	0.37	0.36	0.36	0.36	0.35
150.0		0.46	0.48	0.51	0.53	0.54	0.53	0.51	0.50	0.49	0.46	0.45	0.42	0.41	0.41	0.39
155.0		0.66	0.73	0.85	0.89	0.89	0.83	0.74	0.82	0.80	0.76	0.69	0.59	0.56	0.58	0.56
160.0		0.97	1.05	1.26	1.33	1.33	1.16	1.04	1.18	1.24	1.20	1.09	0.88	0.89	0.95	0.97
165.0		1.26	1.26	1.43	1.54	1.51	1.32	1.24	1.37	1.52	1.50	1.34	1.16	1.21	1.30	1.36
170.0		1.31	1.26	1.30	1.34	1.33	1.25	1.25	1.30	1.40	1.39	1.32	1.24	1.31	1.39	1.44
175.0		1.13	1.07	1.03	1.00	1.01	1.02	1.06	1.05	1.08	1.09	1.12	1.14	1.17	1.17	1.14
180.0		1.00	0.95	0.91	0.88	0.89	0.93	0.96	0.93	0.92	0.91	0.94	0.96	1.00	0.95	0.91

Test System: LSG-1600
 Temperature: 21 DEG
 Operators: FATMA KARA
 Test Date: 02-28-2014

Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity: 56%
 Test Distance: 9.545 m
 Remarks: CG3 Z509 PW 10D 12W 220VAC 50HZ IP65

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 0000302

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 PW 10D 12W 220VAC 50HZ IP65	TYPE: CROMA GARDENA	WEIGHT:
SPECIFICATION: CROMA GARDENA 3	DIMENSION: 200X92mm	SERIAL No.: 20566438

UNIT: lm

C (DEG)	225	240	255	270	285	300	315	330	345
γ (DEG)	225	240	255	270	285	300	315	330	345
0.0	2338	2351	2350	2353	2339	2331	2303	2283	2252
5.0	2100	2124	2173	2099	1995	1851	1712	1492	1326
10.0	743	741	742	636	543	414	338	264	228
15.0	153	152	152	144	137	125	115	104	98.8
20.0	87.2	86.7	88.6	86.2	84.0	79.3	77.9	74.5	73.7
25.0	66.1	65.4	67.5	65.1	63.8	59.1	57.0	52.6	51.3
30.0	42.3	42.1	43.0	40.9	40.2	37.1	36.1	32.2	30.7
35.0	24.8	23.7	24.8	23.4	23.1	19.7	18.9	16.4	16.2
40.0	12.6	12.0	13.3	12.9	12.5	10.6	10.5	9.82	10.0
45.0	9.06	8.72	9.35	9.05	8.96	7.84	7.85	7.21	7.47
50.0	6.94	6.55	7.05	6.73	6.81	5.99	6.07	5.56	5.90
55.0	5.62	5.17	5.59	5.28	5.41	4.72	4.86	4.40	4.66
60.0	4.37	4.06	4.34	4.10	4.20	3.67	3.76	3.37	3.50
65.0	3.22	2.92	3.23	2.92	3.06	2.57	2.70	2.31	2.52
70.0	2.31	2.05	2.32	2.05	2.23	1.79	1.92	1.59	1.76
75.0	1.59	1.34	1.57	1.36	1.52	1.15	1.28	1.00	1.14
80.0	1.01	0.80	1.02	0.83	0.98	0.70	0.82	0.58	0.73
85.0	0.69	0.49	0.67	0.52	0.66	0.42	0.52	0.36	0.49
90.0	0.47	0.34	0.48	0.36	0.48	0.32	0.44	0.30	0.42
95.0	0.41	0.28	0.41	0.29	0.41	0.28	0.39	0.27	0.37
100.0	0.36	0.26	0.35	0.25	0.36	0.26	0.36	0.26	0.34
105.0	0.35	0.25	0.34	0.25	0.34	0.25	0.33	0.26	0.33
110.0	0.33	0.26	0.33	0.25	0.32	0.26	0.33	0.25	0.32
115.0	0.32	0.26	0.32	0.26	0.32	0.26	0.32	0.26	0.31
120.0	0.32	0.26	0.32	0.26	0.32	0.26	0.31	0.26	0.31
125.0	0.31	0.26	0.31	0.26	0.32	0.26	0.31	0.26	0.31
130.0	0.32	0.27	0.32	0.27	0.32	0.27	0.31	0.27	0.32
135.0	0.32	0.29	0.32	0.29	0.32	0.29	0.32	0.29	0.32
140.0	0.34	0.31	0.34	0.31	0.34	0.31	0.34	0.32	0.35
145.0	0.36	0.35	0.36	0.34	0.36	0.35	0.36	0.36	0.37
150.0	0.39	0.39	0.39	0.37	0.40	0.40	0.42	0.42	0.45
155.0	0.54	0.54	0.52	0.49	0.54	0.58	0.63	0.67	0.69
160.0	0.92	0.90	0.81	0.76	0.83	0.97	1.03	1.10	1.05
165.0	1.34	1.27	1.12	1.07	1.14	1.29	1.40	1.41	1.32
170.0	1.43	1.35	1.26	1.21	1.22	1.27	1.33	1.30	1.24
175.0	1.15	1.12	1.12	1.11	1.08	1.05	1.04	1.02	1.02
180.0	0.89	0.89	0.94	0.96	0.94	0.91	0.92	0.93	0.97

Test System: LSG-1600
 Temperature: 21 DEG
 Operators: FATMA KARA
 Test Date: 02-28-2014

Test Set: 2.0deg/s C-Gamma (TYPE C)
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