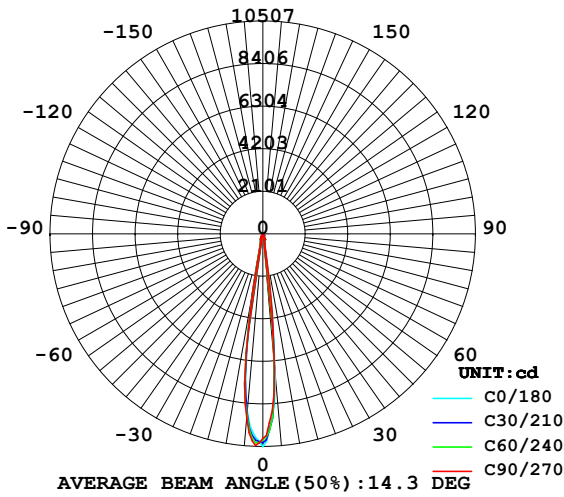


STREETLIGHT PHOTOMETRIC TEST REPORT

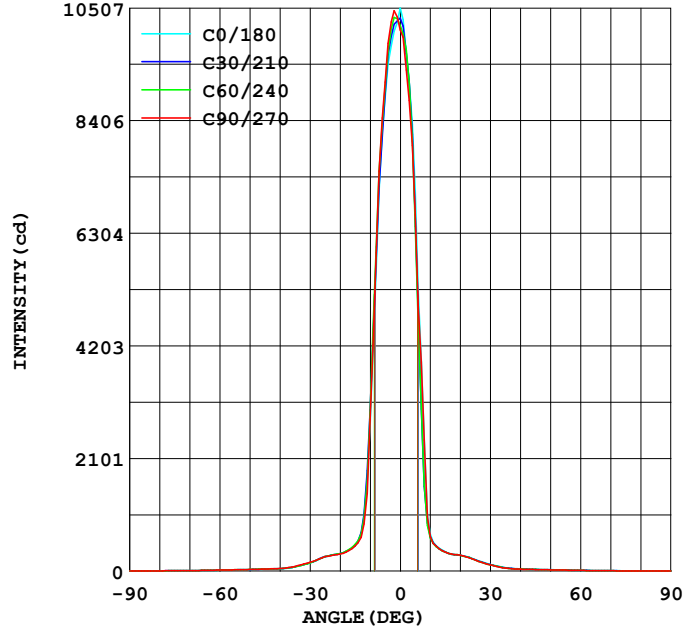
Report number: 0000368

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 G10D 12W 220VAC 50HZ IP65	TYPE: CROMA GARDENA	WEIGHT: ---
SPECIFICATION: CROMA GARDENA 3	DIMENSION: Ø152	SERIAL No.: 20572709

TEST DATA:					
MODEL:	CG3 Z509 G10D 12W 220VAC 50HZ IP65	η street_up(%) :	1.2		
NOMINAL POWER(W) :	12	MAXIMUM(C, γ) :	120,2.0	η street_down(%) :	55.6
RATED VOLTAGE(V) :	220	TOTAL FLUX(lm) :	826.9	η house_up(%) :	1.0
NOMINAL FLUX(lm) :	826.9	EFFICIENCY(%) :	100.0	η house_down(%) :	42.1
TEST FLUX(lm) :	826.9	η up(%) :	2.3		
LAMPS QUANTITY:	1	η down(%) :	97.7		

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSINTENSITY DISTRIBUTION DIAGRAM
IN C PLANS

LUMINOUS INTENSITY DISTRIBUTION



Test: U:220.6V I:0.105A P:12.18W PF:0.522

Test System: LSG-1600
 Temperature: 20 DEG
 Operators: FATMA KARA
 Test Date: 03-14-2014

Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity: 50%
 Test Distance: 9.545 m
 Remarks: CG3 Z509 G10D 12W 220VAC 50HZ IP65

ZONAL FLUX DIAGRAM

Report number: 0000368

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 G10D 12W 220VAC 50HZ IP65	TYPE: CROMA GARDENA	WEIGHT: ---
SPECIFICATION: CROMA GARDENA 3	DIMENSION: Ø152	SERIAL No.: 20572709

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total
5.0	884.4	895.1	912.5	919.0	707.5	659.0	664.7	700.2	0- 5	211.7	211.7
10.0	272.2	286.6	282.8	176.0	68.77	65.20	64.77	89.02	5- 10	260.6	472.4
15.0	47.17	47.68	46.85	42.10	36.03	36.26	35.62	37.63	10- 15	70.16	542.6
20.0	32.59	32.51	31.77	30.69	29.70	29.52	29.55	30.42	15- 20	55.27	597.9
25.0	26.58	26.53	27.02	24.87	21.39	21.54	20.76	21.95	20- 25	56.30	654.2
30.0	15.42	15.17	16.54	15.07	12.52	12.31	11.56	11.66	25- 30	43.75	697.9
35.0	7.944	7.725	8.910	8.017	6.131	6.468	5.521	5.876	30- 35	27.76	725.7
40.0	4.464	4.282	4.947	4.582	3.981	4.318	3.735	4.108	35- 40	16.84	742.5
45.0	3.708	3.480	3.908	3.507	3.225	3.380	2.942	3.343	40- 45	13.95	756.5
50.0	2.933	2.705	3.070	2.760	2.550	2.623	2.305	2.632	45- 50	12.05	768.5
55.0	2.305	2.122	2.450	2.186	2.004	2.049	1.813	2.077	50- 55	10.18	778.7
60.0	1.840	1.639	1.931	1.658	1.521	1.567	1.339	1.594	55- 60	8.448	787.2
65.0	1.311	1.166	1.357	1.175	1.056	1.120	0.920	1.120	60- 65	6.503	793.7
70.0	0.966	0.829	0.984	0.820	0.765	0.820	0.692	0.838	65- 70	4.817	798.5
75.0	0.692	0.592	0.720	0.556	0.501	0.592	0.483	0.601	70- 75	3.590	802.1
80.0	0.492	0.401	0.528	0.374	0.337	0.437	0.328	0.437	75- 80	2.559	804.7
85.0	0.383	0.292	0.392	0.273	0.264	0.355	0.264	0.355	80- 85	1.912	806.6
90.0	0.337	0.246	0.337	0.246	0.237	0.319	0.237	0.319	85- 90	1.628	808.2
95.0	0.310	0.228	0.310	0.228	0.228	0.301	0.219	0.301	90- 95	1.485	809.7
100.0	0.301	0.228	0.301	0.219	0.228	0.292	0.219	0.292	95-100	1.412	811.1
105.0	0.292	0.228	0.292	0.219	0.228	0.282	0.228	0.292	100-105	1.379	812.5
110.0	0.282	0.228	0.282	0.228	0.228	0.292	0.228	0.282	105-110	1.340	813.8
115.0	0.282	0.228	0.282	0.228	0.237	0.282	0.228	0.282	110-115	1.290	815.1
120.0	0.282	0.228	0.282	0.228	0.237	0.273	0.228	0.273	115-120	1.235	816.3
125.0	0.282	0.237	0.282	0.237	0.246	0.273	0.237	0.273	120-125	1.178	817.5
130.0	0.273	0.237	0.273	0.237	0.246	0.273	0.237	0.273	125-130	1.113	818.6
135.0	0.282	0.246	0.282	0.246	0.246	0.282	0.246	0.282	130-135	1.047	819.7
140.0	0.282	0.255	0.282	0.255	0.264	0.282	0.255	0.282	135-140	0.987	820.7
145.0	0.292	0.273	0.292	0.264	0.273	0.292	0.273	0.292	140-145	0.920	821.6
150.0	0.310	0.292	0.310	0.292	0.301	0.319	0.292	0.310	145-150	0.861	822.4
155.0	0.374	0.374	0.364	0.383	0.383	0.456	0.383	0.437	150-155	0.896	823.3
160.0	0.501	0.583	0.483	0.583	0.528	0.656	0.528	0.638	155-160	1.050	824.4
165.0	0.629	0.765	0.620	0.765	0.638	0.784	0.629	0.774	160-165	1.085	825.5
170.0	0.674	0.784	0.665	0.765	0.647	0.692	0.620	0.683	165-170	0.839	826.3
175.0	0.620	0.620	0.629	0.610	0.565	0.538	0.528	0.519	170-175	0.452	826.8
180.0	0.519	0.483	0.528	0.474	0.519	0.492	0.519	0.483	175-180	0.126	826.9
DEG	LUMINOUS INTENSITY: ; Å10cd									UNIT: lm	

Test System: LSG-1600
 Temperature: 20DEG
 Operators: FATMA KARA
 Test Date: 03-14-2014

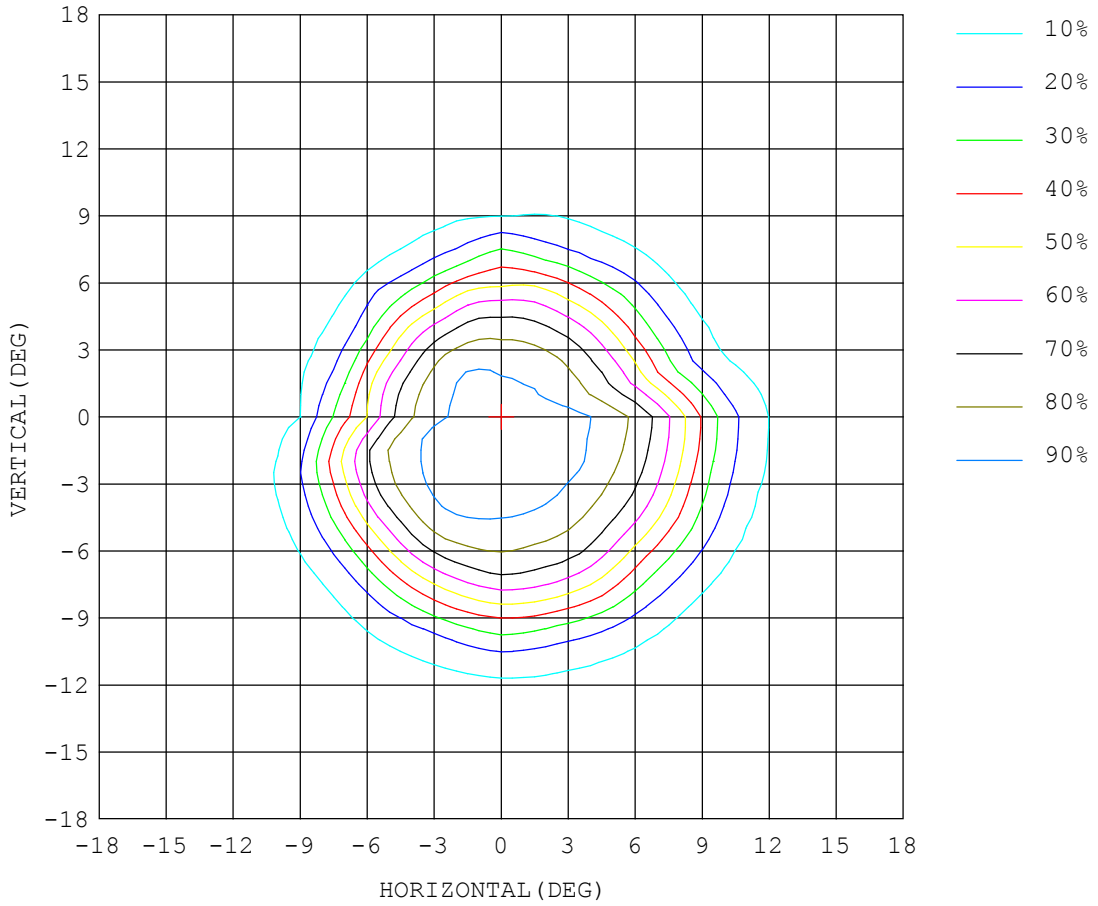
Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity: 50%
 Test Distance: 9.545 m
 Remarks: CG3 Z509 G10D 12W 220VAC 50HZ IP65

ISOCANDELA DIAGRAM

Report number: 0000368

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 G10D 12W 220VAC 50HZ IP65	TYPE: CROMA GARDENA	WEIGHT: ---
SPECIFICATION: CROMA GARDENA 3	DIMENSION: Ø152	SERIAL No.: 20572709

UNIT: cd



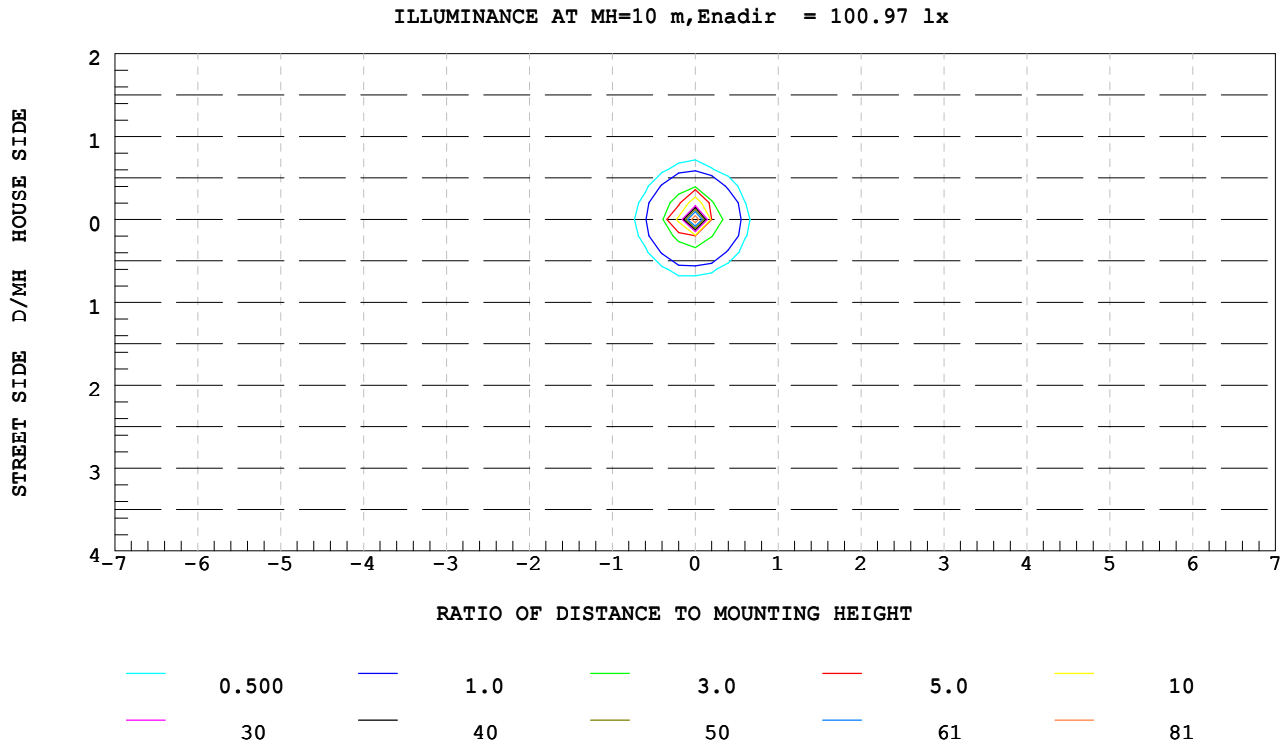
Test System: LSG-1600
Temperature: 20 DEG
Operators: FATMA KARA
Test Date: 03-14-2014

Test Set: 2.0 deg/s C-Gamma (TYPE C)
Humidity: 50%
Test Distance: 9.545 m
Remarks: CG3 Z509 G10D 12W 220VAC 50HZ IP65

ISOLUX DIAGRAM

Report number: 0000368

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 G10D 12W 220VAC 50HZ IP65	TYPE: CROMA GARDENA	WEIGHT: ---
SPECIFICATION: CROMA GARDENA 3	DIMENSION: Ø152	SERIAL No.: 20572709



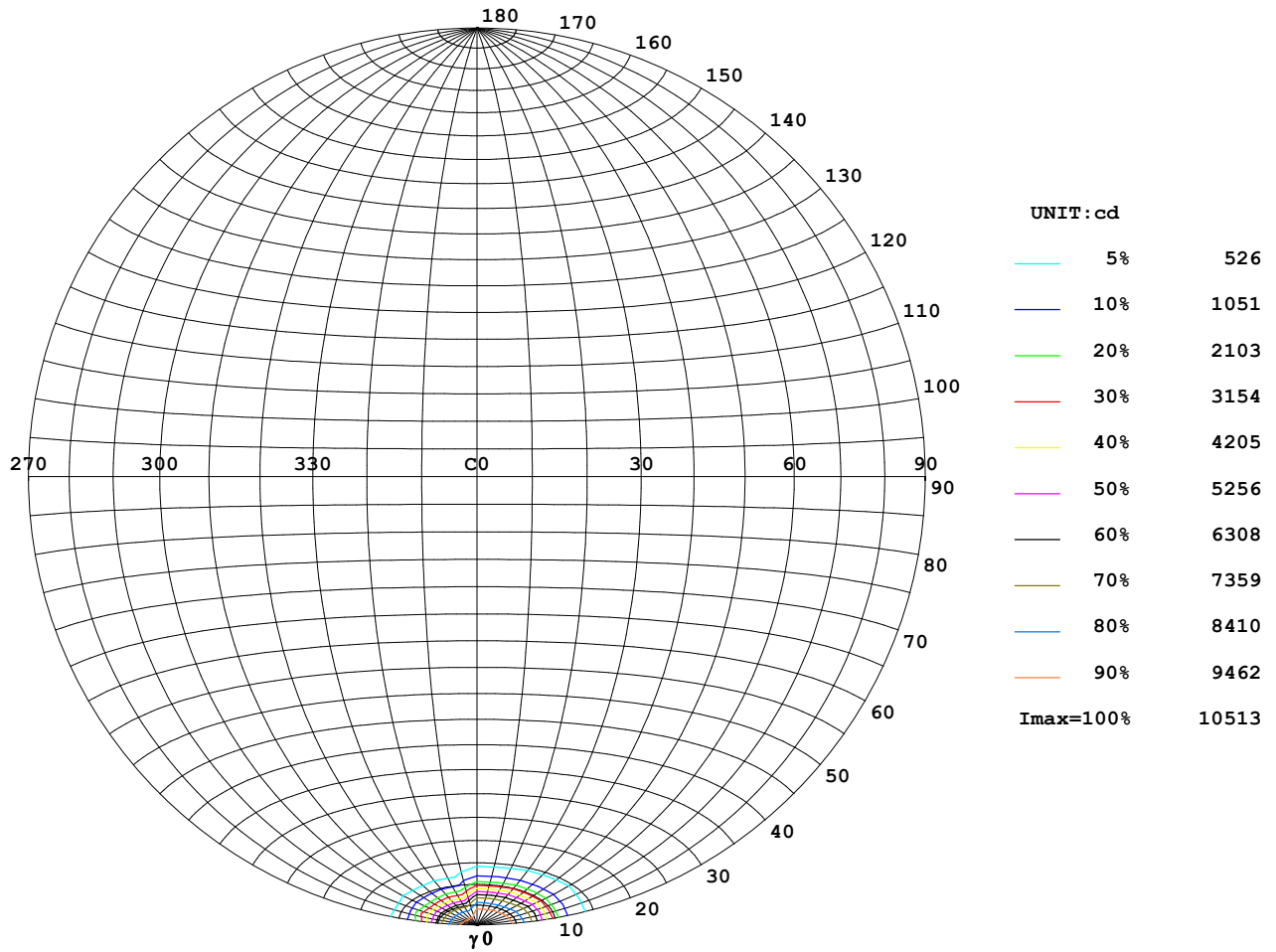
Test System: LSG-1600
 Temperature: 20DEG
 Operators: FATMA KARA
 Test Date: 03-14-2014

Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity: 50%
 Test Distance: 9.545 m
 Remarks: CG3 Z509 G10D 12W 220VAC 50HZ IP65

ISOCANDELA DIAGRAM

Report number: 0000368

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 G10D 12W 220VAC 50HZ IP65	TYPE: CROMA GARDENA	WEIGHT: ---
SPECIFICATION: CROMA GARDENA 3	DIMENSION: Ø152	SERIAL No.: 20572709



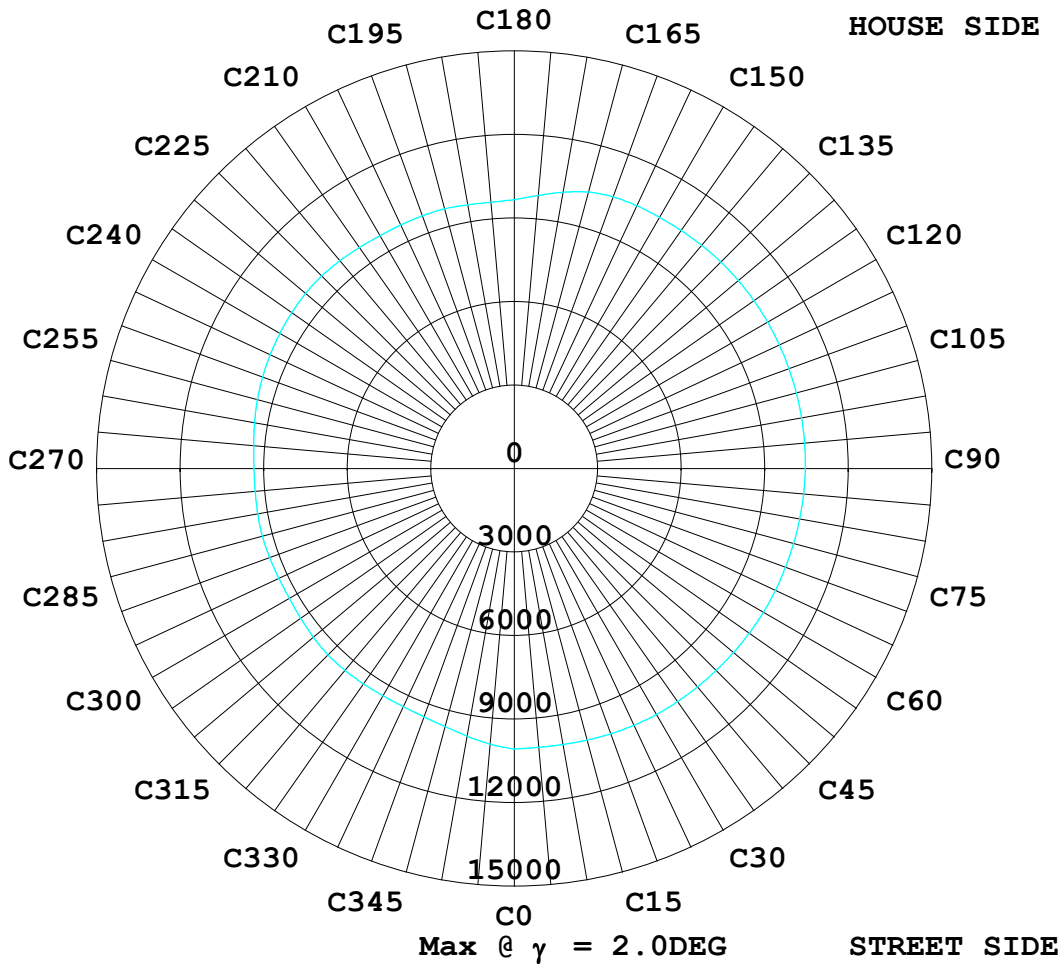
Test System: LSG-1600
 Temperature: 20DEG
 Operators: FATMA KARA
 Test Date: 03-14-2014

Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity: 50%
 Test Distance: 9.545 m
 Remarks: CG3 Z509 G10D 12W 220VAC 50HZ IP65

ISOCANDELA DIAGRAM

Report number: 0000368

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 G10D 12W 220VAC 50HZ IP65	TYPE: CROMA GARDENA	WEIGHT: ---
SPECIFICATION: CROMA GARDENA 3	DIMENSION: Ø152	SERIAL No.: 20572709



Test System: LSG-1600
 Temperature: 20DEG
 Operators: FATMA KARA
 Test Date: 03-14-2014

Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity: 50%
 Test Distance: 9.545 m
 Remarks: CG3 Z509 G10D 12W 220VAC 50HZ IP65

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 0000368

MANUFACTURER: Fiberli					Address: PSL ELEKTRONİK ANTALYA				
NAME: CG3 Z509 G10D 12W 220VAC 50HZ IP65					TYPE: CROMA GARDENA		WEIGHT: ---		
SPECIFICATION: CROMA GARDENA 3					DIMENSION: Ø152		SERIAL No.: 20572709		

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

γ (DEG) \ C (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210
0.0	1051	1040	1032	1024	1018	1014	1010	1010	1006	1001	994	992	1051	1040	1032
5.0	884	886	892	895	905	904	913	928	938	919	895	867	708	694	657
10.0	272	276	301	287	296	262	283	223	214	176	160	133	68.7	67.1	63.4
15.0	47.1	46.9	48.4	47.6	49.7	46.6	46.8	44.2	44.2	42.1	42.1	40.0	36.0	36.6	35.2
20.0	32.5	32.0	32.7	32.5	32.6	31.5	31.7	30.9	31.3	30.6	30.8	30.5	29.7	29.7	29.2
25.0	26.5	26.1	27.0	26.5	27.0	26.2	27.0	25.9	26.1	24.8	25.4	24.3	21.3	22.0	21.1
30.0	15.4	14.8	15.8	15.1	15.5	15.4	16.5	15.4	15.7	15.0	15.8	14.4	12.5	13.2	12.1
35.0	7.94	7.50	8.24	7.72	8.10	8.07	8.91	8.25	8.43	8.01	8.46	7.67	6.13	6.63	6.08
40.0	4.46	4.11	4.62	4.28	4.65	4.46	4.94	4.43	4.85	4.58	4.95	4.34	3.98	4.34	4.04
45.0	3.70	3.40	3.77	3.48	3.88	3.58	3.90	3.52	3.79	3.50	3.86	3.49	3.22	3.44	3.14
50.0	2.93	2.66	2.96	2.70	3.15	2.81	3.07	2.73	2.96	2.76	3.05	2.73	2.55	2.71	2.45
55.0	2.30	2.10	2.36	2.12	2.39	2.20	2.45	2.15	2.35	2.18	2.43	2.15	2.00	2.13	1.94
60.0	1.84	1.63	1.88	1.63	1.85	1.69	1.93	1.66	1.84	1.65	1.88	1.63	1.52	1.64	1.43
65.0	1.31	1.15	1.33	1.16	1.36	1.18	1.35	1.19	1.33	1.17	1.33	1.17	1.05	1.19	0.99
70.0	0.97	0.81	0.97	0.83	1.00	0.83	0.98	0.83	0.97	0.82	0.97	0.84	0.77	0.88	0.72
75.0	0.69	0.57	0.72	0.59	0.73	0.59	0.72	0.57	0.69	0.56	0.71	0.57	0.50	0.63	0.50
80.0	0.49	0.39	0.54	0.40	0.51	0.39	0.53	0.39	0.49	0.37	0.50	0.36	0.34	0.45	0.34
85.0	0.38	0.28	0.41	0.29	0.38	0.28	0.39	0.28	0.37	0.27	0.38	0.27	0.26	0.36	0.26
90.0	0.34	0.25	0.35	0.25	0.34	0.25	0.34	0.25	0.34	0.25	0.33	0.24	0.24	0.32	0.24
95.0	0.31	0.23	0.32	0.23	0.31	0.24	0.31	0.23	0.31	0.23	0.30	0.23	0.23	0.30	0.23
100.0	0.30	0.23	0.29	0.23	0.29	0.23	0.30	0.22	0.29	0.22	0.29	0.23	0.23	0.29	0.22
105.0	0.29	0.23	0.29	0.23	0.29	0.23	0.29	0.22	0.29	0.22	0.29	0.23	0.23	0.29	0.23
110.0	0.28	0.23	0.29	0.23	0.28	0.23	0.28	0.22	0.28	0.23	0.28	0.23	0.23	0.28	0.23
115.0	0.28	0.23	0.28	0.23	0.28	0.23	0.28	0.23	0.28	0.23	0.28	0.23	0.24	0.28	0.23
120.0	0.28	0.23	0.28	0.23	0.27	0.24	0.28	0.23	0.28	0.23	0.27	0.24	0.24	0.27	0.23
125.0	0.28	0.24	0.28	0.24	0.27	0.23	0.28	0.24	0.28	0.24	0.27	0.24	0.25	0.27	0.24
130.0	0.27	0.24	0.28	0.24	0.28	0.24	0.27	0.24	0.27	0.24	0.27	0.24	0.25	0.27	0.24
135.0	0.28	0.25	0.28	0.25	0.27	0.25	0.28	0.25	0.28	0.25	0.27	0.25	0.25	0.27	0.25
140.0	0.28	0.26	0.28	0.26	0.28	0.26	0.28	0.26	0.28	0.26	0.28	0.26	0.26	0.28	0.26
145.0	0.29	0.26	0.29	0.27	0.29	0.27	0.29	0.26	0.29	0.26	0.29	0.27	0.27	0.29	0.27
150.0	0.31	0.28	0.31	0.29	0.31	0.28	0.31	0.29	0.31	0.29	0.31	0.29	0.30	0.32	0.30
155.0	0.37	0.38	0.40	0.37	0.39	0.37	0.36	0.37	0.40	0.38	0.41	0.39	0.38	0.43	0.44
160.0	0.50	0.55	0.59	0.58	0.58	0.52	0.48	0.52	0.59	0.58	0.60	0.56	0.53	0.57	0.64
165.0	0.63	0.67	0.76	0.77	0.76	0.66	0.62	0.65	0.75	0.77	0.77	0.68	0.64	0.67	0.75
170.0	0.67	0.69	0.76	0.78	0.76	0.68	0.67	0.67	0.74	0.77	0.76	0.69	0.65	0.66	0.67
175.0	0.62	0.61	0.63	0.62	0.63	0.61	0.63	0.61	0.62	0.61	0.61	0.60	0.56	0.56	0.54
180.0	0.52	0.50	0.50	0.48	0.50	0.50	0.53	0.50	0.49	0.47	0.48	0.50	0.52	0.51	0.49

Test System: LSG-1600
 Temperature: 20 DEG
 Operators: FATMA KARA
 Test Date: 03-14-2014

Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity: 50%
 Test Distance: 9.545 m
 Remarks: CG3 Z509 G10D 12W 220VAC 50HZ IP65

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 0000368

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 G10D 12W 220VAC 50HZ IP65	TYPE: CROMA GARDENA	WEIGHT: ---
SPECIFICATION: CROMA GARDENA 3	DIMENSION: Ø152	SERIAL No.: 20572709

UNIT: lm

C (DEG)	225	240	255	270	285	300	315	330	345
γ (DEG)									
0.0	1024	1018	1014	1010	1010	1006	1001	994	992
5.0	659	644	673	665	683	680	700	713	748
10.0	65.2	61.6	63.1	64.7	74.3	78.8	89.0	96.3	118
15.0	36.2	35.2	36.1	35.6	37.0	36.3	37.6	37.5	39.7
20.0	29.5	29.3	29.9	29.5	29.7	29.3	30.4	30.1	30.5
25.0	21.5	20.7	21.4	20.7	21.3	19.9	21.9	21.9	22.7
30.0	12.3	11.4	12.1	11.5	11.7	10.6	11.6	11.5	12.4
35.0	6.46	5.94	6.21	5.52	5.77	5.32	5.87	5.57	6.08
40.0	4.31	3.90	4.09	3.73	4.09	3.85	4.10	3.88	4.16
45.0	3.38	3.03	3.25	2.94	3.26	3.14	3.34	3.16	3.47
50.0	2.62	2.32	2.55	2.30	2.57	2.45	2.63	2.45	2.70
55.0	2.04	1.80	2.01	1.81	2.04	1.85	2.07	1.92	2.15
60.0	1.56	1.33	1.54	1.33	1.53	1.39	1.59	1.43	1.65
65.0	1.12	0.94	1.09	0.92	1.09	0.97	1.12	0.97	1.14
70.0	0.82	0.67	0.82	0.69	0.83	0.71	0.84	0.70	0.85
75.0	0.59	0.45	0.58	0.48	0.59	0.46	0.60	0.50	0.62
80.0	0.44	0.31	0.43	0.33	0.43	0.32	0.44	0.33	0.44
85.0	0.36	0.26	0.36	0.26	0.36	0.26	0.36	0.26	0.36
90.0	0.32	0.23	0.32	0.24	0.32	0.24	0.32	0.24	0.33
95.0	0.30	0.22	0.30	0.22	0.29	0.23	0.30	0.22	0.30
100.0	0.29	0.23	0.29	0.22	0.29	0.22	0.29	0.22	0.29
105.0	0.28	0.23	0.28	0.23	0.28	0.22	0.29	0.22	0.29
110.0	0.29	0.22	0.28	0.23	0.28	0.23	0.28	0.23	0.28
115.0	0.28	0.23	0.27	0.23	0.27	0.23	0.28	0.23	0.27
120.0	0.27	0.24	0.27	0.23	0.27	0.23	0.27	0.23	0.27
125.0	0.27	0.24	0.27	0.24	0.27	0.24	0.27	0.23	0.27
130.0	0.27	0.24	0.27	0.24	0.27	0.24	0.27	0.24	0.27
135.0	0.28	0.25	0.28	0.25	0.28	0.25	0.28	0.25	0.27
140.0	0.28	0.26	0.28	0.26	0.28	0.26	0.28	0.26	0.28
145.0	0.29	0.27	0.29	0.27	0.29	0.27	0.29	0.26	0.29
150.0	0.32	0.31	0.32	0.29	0.32	0.30	0.31	0.29	0.31
155.0	0.46	0.45	0.42	0.38	0.44	0.43	0.44	0.42	0.40
160.0	0.66	0.63	0.58	0.53	0.60	0.63	0.64	0.60	0.54
165.0	0.78	0.73	0.67	0.63	0.68	0.76	0.77	0.70	0.64
170.0	0.69	0.67	0.65	0.62	0.65	0.67	0.68	0.65	0.65
175.0	0.54	0.53	0.54	0.53	0.53	0.51	0.52	0.53	0.56
180.0	0.49	0.49	0.51	0.52	0.50	0.48	0.48	0.47	0.50

Test System: LSG-1600
 Temperature: 20 DEG
 Operators: FATMA KARA
 Test Date: 03-14-2014

Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity: 50%
 Test Distance: 9.545 m
 Remarks: CG3 Z509 G10D 12W 220VAC 50HZ IP65