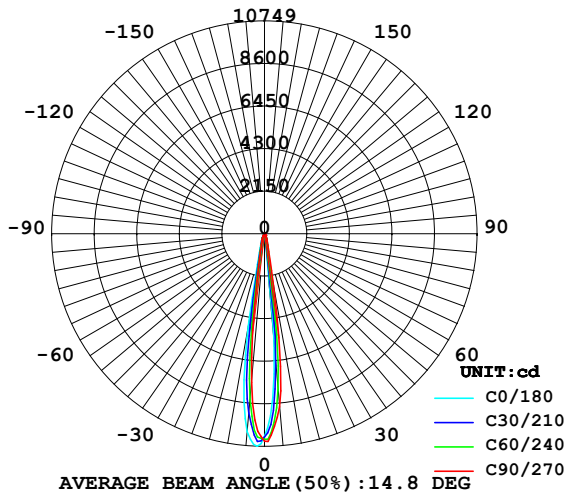


STREETLIGHT PHOTOMETRIC TEST REPORT

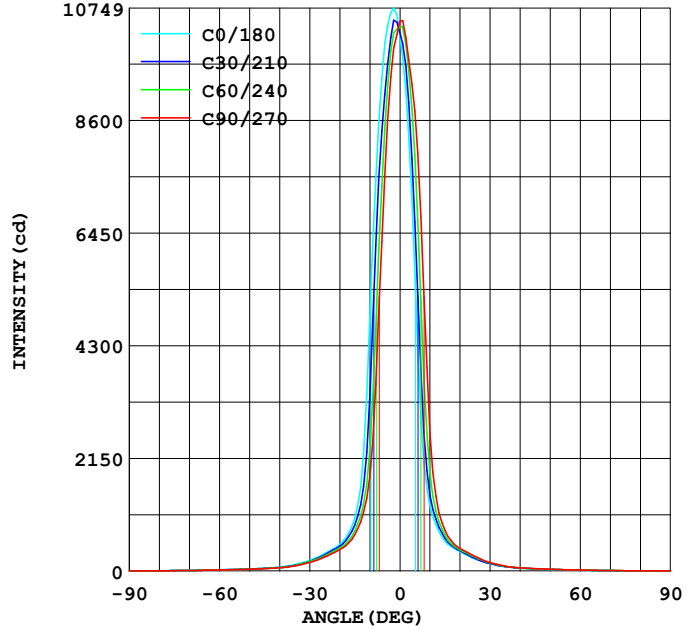
Report number: 0000524

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 CW 10D 12W 220VAC 50HZ	TYPE: CROMA GARDENA	WEIGHT: ---
SPECIFICATION: CROMA GARDENA 3	DIMENSION: Ø152	SERIAL No.: 20566438

TEST DATA:					
MODEL:	CG3	Imax (cd) :	10749	η street_up (%) :	0.7
NOMINAL POWER (W) :	12	MAXIMUM (C, γ) :	0,2.0	η street_down (%) :	60.6
RATED VOLTAGE (V) :	220	TOTAL FLUX (lm) :	1011	η house_up (%) :	0.6
NOMINAL FLUX (lm) :	1011.4	EFFICIENCY (%) :	100.0	η house_down (%) :	38.0
TEST FLUX (lm) :	1011	η up (%) :	1.4		
LAMPS QUANTITY:	1	η down (%) :	98.6		

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSINTENSITY DISTRIBUTION DIAGRAM
IN C PLANS

LUMINOUS INTENSITY DISTRIBUTION



Test: U:220.8V I:0.101A P:11.52W PF:0.515

Test System: LSG-1600
 Temperature: 30 DEG
 Operators: FATMA KARA
 Test Date: 08-18-2014

Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity: 51%
 Test Distance: 9.545 m
 Remarks: CG3 Z509 CW 10D 12W 220VAC 50HZ

ZONAL FLUX DIAGRAM

Report number: 0000524

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 CW 10D 12W 220VAC 50HZ	TYPE: CROMA GARDENA	WEIGHT: ---
SPECIFICATION: CROMA GARDENA 3	DIMENSION: Ø152	SERIAL No.: 20566438

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total
5.0	1005	872.4	753.1	689.6	570.8	736.9	878.6	939.1	0- 5	214.5	214.5
10.0	478.0	266.9	178.4	153.4	125.1	168.2	264.3	378.8	5- 10	309.4	524.0
15.0	100.1	79.51	68.65	62.21	57.00	66.78	77.65	85.09	10- 15	132.4	656.5
20.0	50.54	44.59	40.92	38.23	36.71	40.52	43.20	44.89	15- 20	84.59	741.1
25.0	33.39	29.29	26.48	24.53	23.09	25.95	27.93	29.87	20- 25	69.10	810.2
30.0	19.98	17.69	16.08	14.86	14.09	15.56	16.01	17.88	25- 30	51.28	861.5
35.0	12.14	10.16	9.620	8.445	8.126	9.065	9.493	10.58	30- 35	35.51	897.0
40.0	7.306	6.240	6.213	5.666	5.475	6.022	6.067	6.614	35- 40	24.28	921.3
45.0	5.156	4.528	4.500	4.026	3.872	4.291	4.436	4.746	40- 45	18.66	939.9
50.0	3.817	3.361	3.352	3.006	2.915	3.179	3.279	3.480	45- 50	14.89	954.8
55.0	2.933	2.587	2.532	2.286	2.223	2.450	2.441	2.678	50- 55	12.15	967.0
60.0	2.250	1.931	1.858	1.621	1.539	1.785	1.849	2.031	55- 60	9.734	976.7
65.0	1.576	1.348	1.302	1.129	1.047	1.248	1.275	1.439	60- 65	7.280	984.0
70.0	1.111	0.975	0.920	0.784	0.702	0.856	0.893	1.011	65- 70	5.296	989.3
75.0	0.774	0.629	0.574	0.474	0.437	0.547	0.565	0.674	70- 75	3.652	992.9
80.0	0.483	0.346	0.337	0.264	0.246	0.319	0.301	0.410	75- 80	2.259	995.2
85.0	0.292	0.210	0.219	0.173	0.173	0.219	0.191	0.255	80- 85	1.376	996.6
90.0	0.200	0.155	0.182	0.146	0.137	0.173	0.146	0.191	85- 90	0.989	997.6
95.0	0.164	0.128	0.164	0.128	0.128	0.155	0.128	0.164	90- 95	0.810	998.4
100.0	0.146	0.128	0.146	0.128	0.118	0.146	0.128	0.146	95-100	0.736	999.1
105.0	0.146	0.128	0.146	0.128	0.128	0.137	0.128	0.137	100-105	0.722	999.8
110.0	0.146	0.128	0.146	0.128	0.128	0.137	0.128	0.146	105-110	0.708	1001
115.0	0.137	0.128	0.146	0.137	0.137	0.146	0.128	0.137	110-115	0.685	1001
120.0	0.146	0.137	0.146	0.137	0.137	0.146	0.137	0.146	115-120	0.674	1002
125.0	0.146	0.137	0.146	0.146	0.146	0.155	0.146	0.146	120-125	0.660	1003
130.0	0.155	0.155	0.164	0.155	0.155	0.155	0.146	0.155	125-130	0.650	1003
135.0	0.164	0.173	0.173	0.173	0.164	0.173	0.164	0.164	130-135	0.649	1004
140.0	0.182	0.191	0.191	0.200	0.200	0.182	0.173	0.182	135-140	0.655	1005
145.0	0.210	0.237	0.246	0.273	0.255	0.228	0.219	0.210	140-145	0.701	1005
150.0	0.310	0.364	0.401	0.446	0.410	0.355	0.301	0.292	145-150	0.881	1006
155.0	0.483	0.574	0.574	0.656	0.574	0.565	0.465	0.474	150-155	1.191	1007
160.0	0.629	0.765	0.665	0.802	0.665	0.756	0.601	0.683	155-160	1.360	1009
165.0	0.692	0.838	0.702	0.829	0.711	0.811	0.665	0.793	160-165	1.222	1010
170.0	0.711	0.765	0.702	0.720	0.692	0.720	0.665	0.738	165-170	0.872	1011
175.0	0.674	0.620	0.620	0.565	0.592	0.565	0.601	0.583	170-175	0.465	1011
180.0	0.574	0.501	0.547	0.492	0.583	0.501	0.556	0.501	175-180	0.132	1011
DEG	LUMINOUS INTENSITY: ; Å10cd									UNIT: lm	

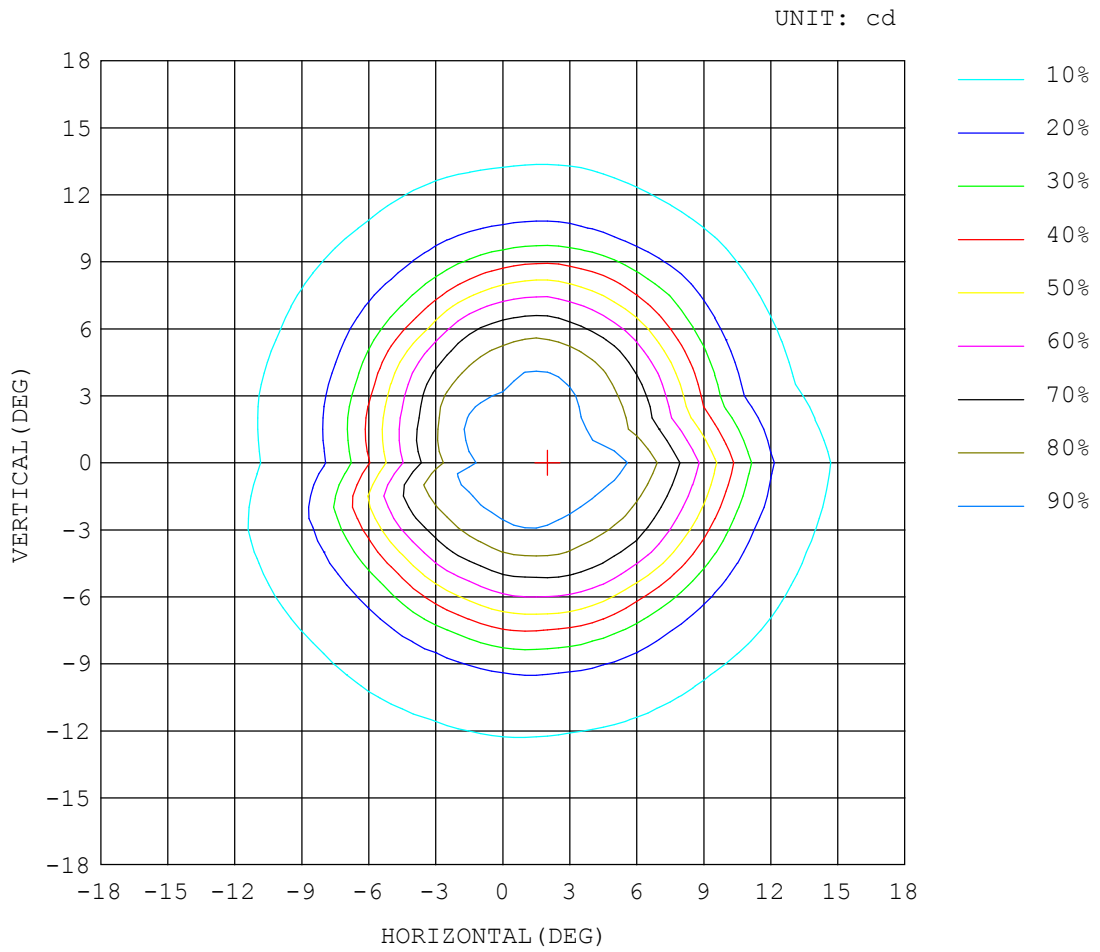
Test System: LSG-1600
 Temperature: 30DEG
 Operators: FATMA KARA
 Test Date: 08-18-2014

Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity: 51%
 Test Distance: 9.545 m
 Remarks: CG3 Z509 CW 10D 12W 220VAC 50HZ

ISOCANDELA DIAGRAM

Report number: 0000524

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 CW 10D 12W 220VAC 50HZ	TYPE: CROMA GARDENA	WEIGHT: ---
SPECIFICATION: CROMA GARDENA 3	DIMENSION: Ø152	SERIAL No.: 20566438



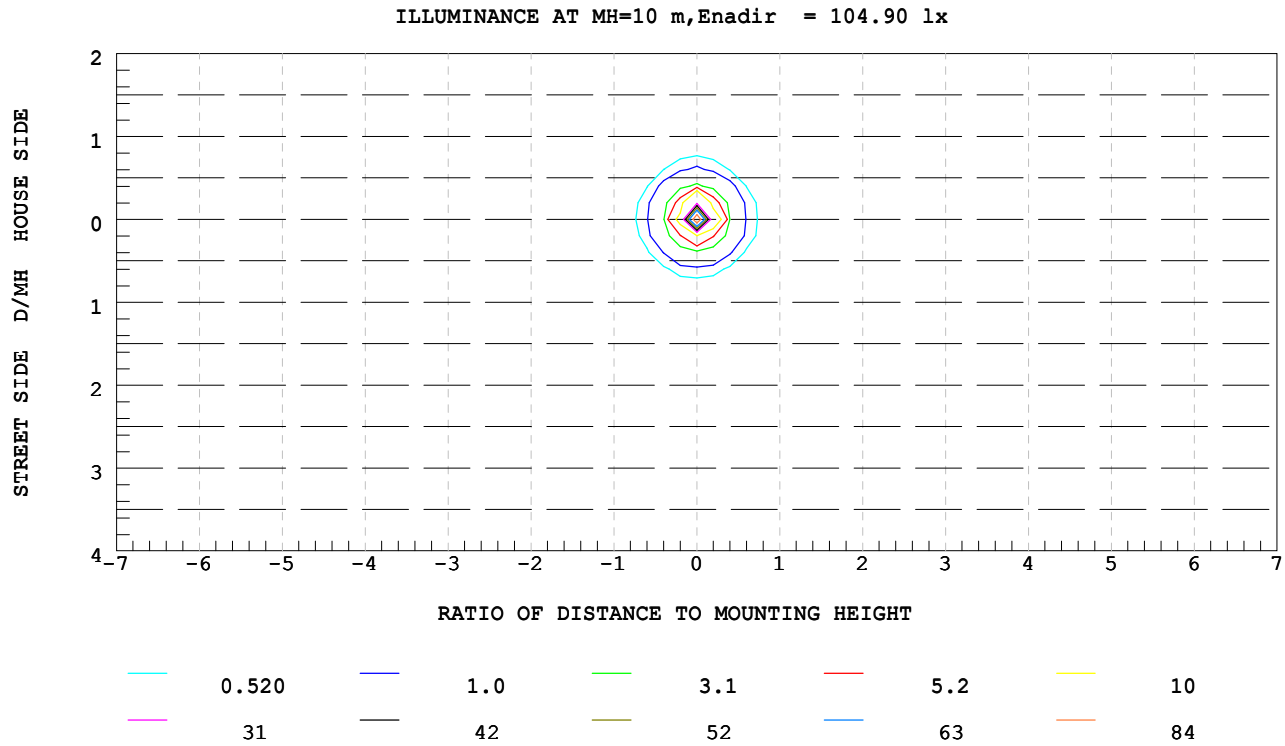
Test System: LSG-1600
Temperature: 30 DEG
Operators: FATMA KARA
Test Date: 08-18-2014

Test Set: 2.0 deg/s C-Gamma (TYPE C)
Humidity: 51%
Test Distance: 9.545 m
Remarks: CG3 Z509 CW 10D 12W 220VAC 50HZ

ISOLUX DIAGRAM

Report number: 0000524

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 CW 10D 12W 220VAC 50HZ	TYPE: CROMA GARDENA	WEIGHT: ---
SPECIFICATION: CROMA GARDENA 3	DIMENSION: Ø152	SERIAL No.: 20566438



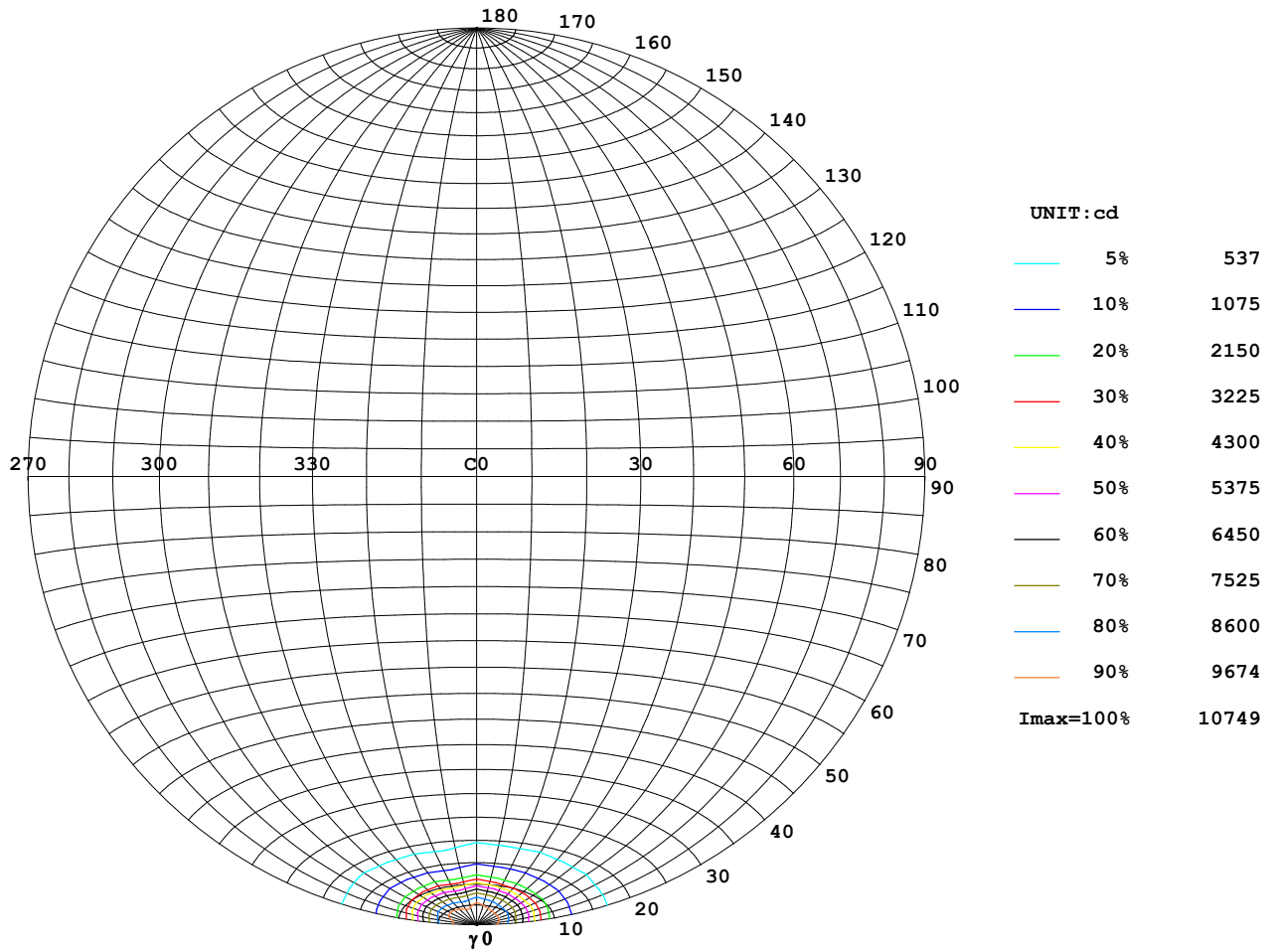
Test System: LSG-1600
 Temperature: 30DEG
 Operators: FATMA KARA
 Test Date: 08-18-2014

Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity: 51%
 Test Distance: 9.545 m
 Remarks: CG3 Z509 CW 10D 12W 220VAC 50HZ

ISOCANDELA DIAGRAM

Report number: 0000524

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 CW 10D 12W 220VAC 50HZ	TYPE: CROMA GARDENA	WEIGHT: ---
SPECIFICATION: CROMA GARDENA 3	DIMENSION: Ø152	SERIAL No.: 20566438



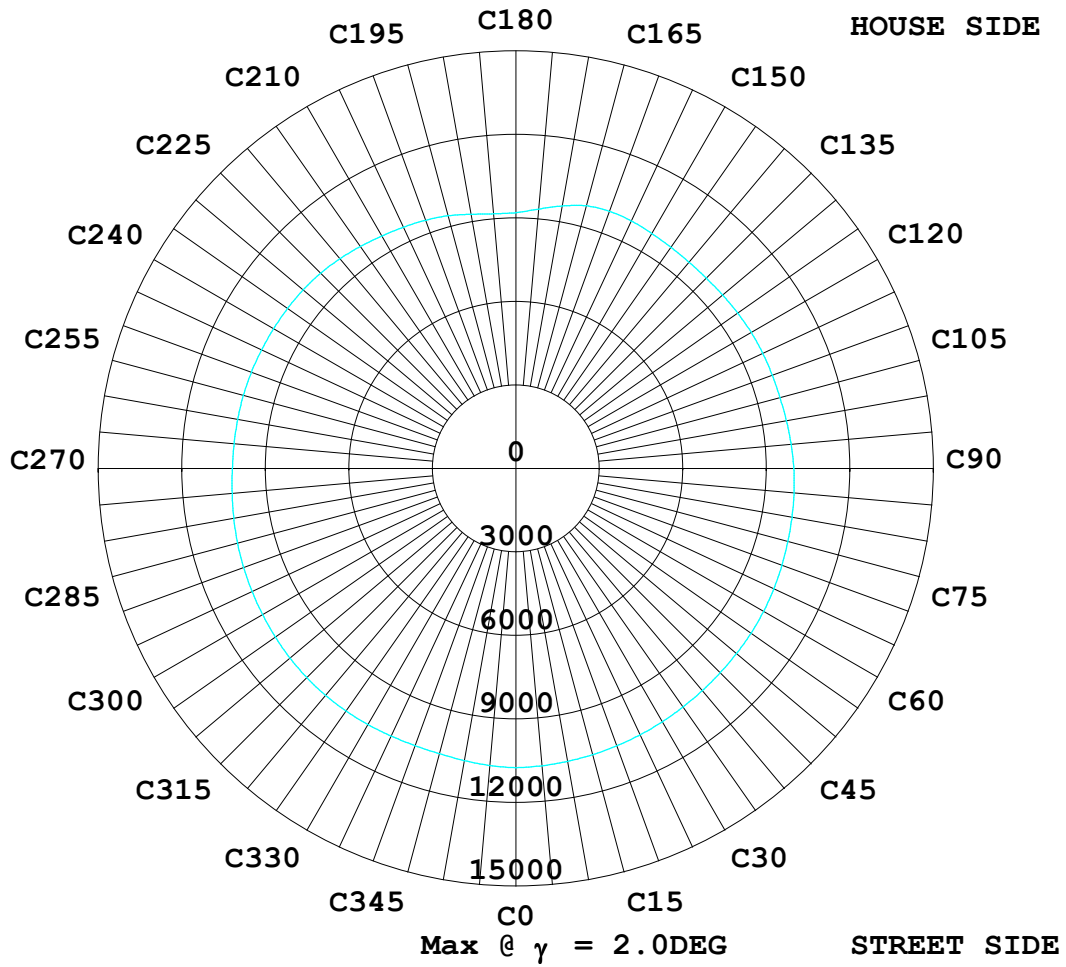
Test System: LSG-1600
 Temperature: 30DEG
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 Test Date: 08-18-2014

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

Report number: 0000524

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 CW 10D 12W 220VAC 50HZ	TYPE: CROMA GARDENA	WEIGHT: ---
SPECIFICATION: CROMA GARDENA 3	DIMENSION: Ø152	SERIAL No.: 20566438



Test System: LSG-1600
 Temperature: 30DEG
 Operators: FATMA KARA
 Test Date: 08-18-2014

Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity: 51%
 Test Distance: 9.545 m
 Remarks: CG3 Z509 CW 10D 12W 220VAC 50HZ

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 0000524

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 CW 10D 12W 220VAC 50HZ	TYPE: CROMA GARDENA	WEIGHT: ---
SPECIFICATION: CROMA GARDENA 3	DIMENSION: Ø152	SERIAL No.: 20566438

UNIT: m^2cd

C (DEG)																
γ (DEG)		0	15	30	45	60	75	90	105	120	135	150	165	180	195	210
0.0		1024	1027	1028	1034	1038	1045	1049	1053	1056	1057	1059	1057	1024	1027	1028
5.0		1005	949	909	872	842	788	753	713	704	690	713	719	571	619	667
10.0		478	403	327	267	229	195	178	163	159	153	157	160	125	137	145
15.0		100	92.5	87.2	79.5	75.8	70.6	68.6	65.4	64.7	62.2	63.2	63.5	57.0	61.1	62.7
20.0		50.5	47.7	47.2	44.5	43.7	41.3	40.9	39.3	39.8	38.2	38.8	38.5	36.7	38.3	38.7
25.0		33.3	32.4	31.1	29.2	28.5	26.8	26.4	25.1	25.6	24.5	25.0	25.2	23.0	24.2	24.0
30.0		19.9	18.4	18.3	17.6	17.8	16.2	16.0	15.2	15.7	14.8	15.2	15.1	14.0	14.8	14.2
35.0		12.1	10.8	10.8	10.1	10.2	9.38	9.62	8.94	9.26	8.44	8.72	8.50	8.12	8.70	8.42
40.0		7.30	6.65	6.64	6.24	6.44	6.00	6.21	5.84	6.12	5.66	5.83	5.61	5.47	5.93	5.64
45.0		5.15	4.78	4.90	4.52	4.60	4.32	4.50	4.17	4.34	4.02	4.20	3.99	3.87	4.20	4.05
50.0		3.81	3.53	3.68	3.36	3.45	3.17	3.35	3.10	3.26	3.00	3.20	2.96	2.91	3.14	2.97
55.0		2.93	2.71	2.87	2.58	2.66	2.45	2.53	2.35	2.48	2.28	2.40	2.26	2.22	2.37	2.25
60.0		2.25	2.04	2.12	1.93	2.01	1.79	1.85	1.68	1.78	1.62	1.72	1.62	1.53	1.68	1.59
65.0		1.57	1.42	1.50	1.34	1.40	1.24	1.30	1.14	1.24	1.12	1.22	1.12	1.04	1.15	1.09
70.0		1.11	0.99	1.06	0.97	0.98	0.86	0.92	0.79	0.87	0.78	0.86	0.77	0.70	0.79	0.73
75.0		0.77	0.67	0.72	0.63	0.64	0.53	0.57	0.48	0.56	0.47	0.53	0.47	0.44	0.50	0.43
80.0		0.48	0.37	0.41	0.35	0.40	0.30	0.34	0.27	0.34	0.26	0.31	0.26	0.25	0.30	0.25
85.0		0.29	0.22	0.26	0.21	0.25	0.19	0.22	0.18	0.23	0.17	0.21	0.17	0.17	0.21	0.16
90.0		0.20	0.16	0.19	0.15	0.19	0.15	0.18	0.14	0.17	0.15	0.16	0.14	0.14	0.17	0.14
95.0		0.16	0.13	0.15	0.13	0.15	0.12	0.16	0.12	0.15	0.13	0.15	0.13	0.13	0.15	0.12
100.0		0.15	0.13	0.15	0.13	0.15	0.13	0.15	0.13	0.15	0.13	0.15	0.13	0.12	0.15	0.13
105.0		0.15	0.12	0.15	0.13	0.15	0.13	0.15	0.12	0.15	0.13	0.15	0.13	0.13	0.15	0.13
110.0		0.15	0.14	0.14	0.13	0.15	0.13	0.15	0.13	0.15	0.13	0.14	0.13	0.13	0.15	0.13
115.0		0.14	0.13	0.15	0.13	0.15	0.14	0.15	0.13	0.14	0.14	0.15	0.13	0.14	0.14	0.13
120.0		0.15	0.14	0.15	0.14	0.15	0.14	0.15	0.14	0.15	0.14	0.15	0.14	0.14	0.15	0.14
125.0		0.15	0.14	0.15	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.14
130.0		0.15	0.15	0.15	0.15	0.15	0.15	0.16	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
135.0		0.16	0.16	0.16	0.17	0.17	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16
140.0		0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.19	0.19	0.20	0.19	0.19
145.0		0.21	0.23	0.22	0.24	0.24	0.25	0.25	0.26	0.26	0.27	0.26	0.26	0.26	0.24	0.24
150.0		0.31	0.33	0.34	0.36	0.37	0.39	0.40	0.43	0.44	0.45	0.43	0.42	0.41	0.39	0.38
155.0		0.48	0.51	0.54	0.57	0.58	0.60	0.57	0.60	0.64	0.66	0.64	0.61	0.57	0.60	0.60
160.0		0.63	0.66	0.72	0.77	0.77	0.75	0.67	0.69	0.77	0.80	0.77	0.70	0.67	0.74	0.77
165.0		0.69	0.70	0.77	0.84	0.83	0.77	0.70	0.70	0.77	0.83	0.79	0.71	0.71	0.76	0.81
170.0		0.71	0.71	0.73	0.77	0.78	0.74	0.70	0.68	0.71	0.72	0.71	0.68	0.69	0.70	0.72
175.0		0.67	0.66	0.64	0.62	0.62	0.61	0.62	0.59	0.57	0.56	0.57	0.58	0.59	0.58	0.56
180.0		0.57	0.56	0.52	0.50	0.51	0.53	0.55	0.52	0.50	0.49	0.50	0.52	0.58	0.56	0.53

Test System: LSG-1600
 Temperature: 30DEG
 Operators: FATMA KARA
 Test Date: 08-18-2014

Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity: 51%
 Test Distance: 9.545 m
 Remarks: CG3 Z509 CW 10D 12W 220VAC 50HZ

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 0000524

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 CW 10D 12W 220VAC 50HZ	TYPE: CROMA GARDENA	WEIGHT: ---
SPECIFICATION: CROMA GARDENA 3	DIMENSION: Ø152	SERIAL No.: 20566438

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

C (DEG)	225	240	255	270	285	300	315	330	345
γ (DEG)									
0.0	1034	1038	1045	1049	1053	1056	1057	1059	1057
5.0	737	794	844	879	927	946	939	917	914
10.0	168	188	230	264	321	374	379	370	338
15.0	66.7	69.1	74.7	77.6	82.8	82.9	85.0	82.4	81.1
20.0	40.5	40.8	42.8	43.2	44.7	44.0	44.8	43.7	44.2
25.0	25.9	26.2	28.1	27.9	29.2	29.0	29.8	29.0	29.3
30.0	15.5	15.7	16.9	16.0	17.0	17.0	17.8	17.2	17.5
35.0	9.06	8.89	9.70	9.49	10.1	10.1	10.5	9.94	10.3
40.0	6.02	5.80	6.30	6.06	6.54	6.35	6.61	6.12	6.45
45.0	4.29	4.07	4.48	4.43	4.74	4.52	4.74	4.40	4.64
50.0	3.17	3.01	3.32	3.27	3.50	3.34	3.48	3.22	3.41
55.0	2.45	2.35	2.55	2.44	2.66	2.55	2.67	2.43	2.65
60.0	1.78	1.70	1.90	1.84	2.00	1.92	2.03	1.86	2.01
65.0	1.24	1.18	1.33	1.27	1.39	1.31	1.43	1.31	1.43
70.0	0.86	0.81	0.94	0.89	0.98	0.91	1.01	0.92	1.02
75.0	0.55	0.52	0.61	0.56	0.67	0.60	0.67	0.58	0.66
80.0	0.32	0.29	0.36	0.30	0.39	0.36	0.41	0.33	0.39
85.0	0.22	0.20	0.23	0.19	0.25	0.21	0.26	0.19	0.25
90.0	0.17	0.15	0.18	0.15	0.18	0.15	0.19	0.15	0.18
95.0	0.15	0.13	0.15	0.13	0.15	0.13	0.16	0.13	0.16
100.0	0.15	0.12	0.15	0.13	0.15	0.13	0.15	0.13	0.15
105.0	0.14	0.13	0.15	0.13	0.15	0.12	0.14	0.13	0.15
110.0	0.14	0.13	0.15	0.13	0.14	0.13	0.15	0.13	0.15
115.0	0.15	0.14	0.15	0.13	0.14	0.13	0.14	0.13	0.14
120.0	0.15	0.14	0.15	0.14	0.15	0.14	0.15	0.13	0.14
125.0	0.15	0.15	0.15	0.15	0.15	0.14	0.15	0.14	0.15
130.0	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
135.0	0.17	0.16	0.16	0.16	0.16	0.15	0.16	0.15	0.16
140.0	0.18	0.18	0.18	0.17	0.17	0.18	0.18	0.17	0.18
145.0	0.23	0.23	0.22	0.22	0.21	0.21	0.21	0.21	0.21
150.0	0.36	0.35	0.32	0.30	0.28	0.30	0.29	0.30	0.29
155.0	0.56	0.55	0.49	0.46	0.47	0.49	0.47	0.49	0.48
160.0	0.76	0.71	0.63	0.60	0.65	0.68	0.68	0.69	0.64
165.0	0.81	0.75	0.67	0.67	0.72	0.77	0.79	0.77	0.71
170.0	0.72	0.68	0.67	0.67	0.68	0.71	0.74	0.71	0.68
175.0	0.56	0.57	0.59	0.60	0.59	0.58	0.58	0.58	0.59
180.0	0.50	0.50	0.52	0.56	0.52	0.49	0.50	0.50	0.52

Test System: LSG-1600
 Temperature: 30DEG
 Operators: FATMA KARA
 Test Date: 08-18-2014

Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity: 51%
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 Remarks: CG3 Z509 CW 10D 12W 220VAC 50HZ