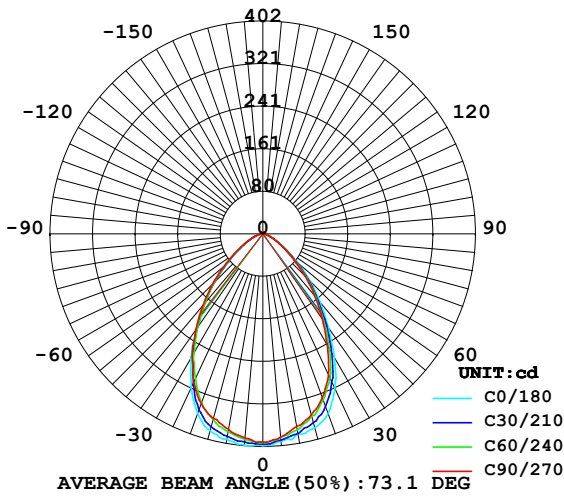
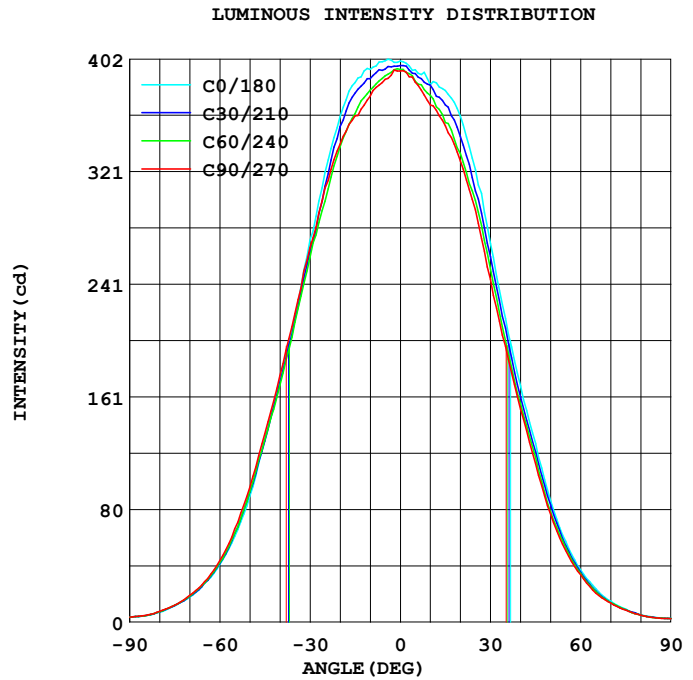


STREETLIGHT PHOTOMETRIC TEST REPORT

Report number: 0000303

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 G 60D 12W 220VAC 50HZ IP65	TYPE: CROMA GARDENA	WEIGHT:
SPECIFICATION: CROMA GARDENA 3	DIMENSION: 200X92mm	SERIAL No.: 11677595

TEST DATA:					
MODEL:	CG3 Z509 G 60D 12W 220VAC 50HZ IP65	η street_up(%) :	1.6		
NOMINAL POWER(W) :	12	η street_down(%) :	51.7		
RATED VOLTAGE(V) :	220	η house_up(%) :	1.3		
NOMINAL FLUX(lm) :	607.9	η house_down(%) :	45.4		
TEST FLUX(lm) :	607.8	η up(%) :	2.9		
LAMPS QUANTITY:	1	η down(%) :	97.1		

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSINTENSITY DISTRIBUTION DIAGRAM
IN C PLANS

Test: U:220.6V I:0.099A P:11.40W PF:0.518

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: 55%
 Test Distance: 9.545 m
 Remarks: CG3 Z509 G 60D 12W 220VAC 50HZ IP65

ZONAL FLUX DIAGRAM

Report number: 0000303

MANUFACTURER: Fiberli	Address:PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 G 60D 12W 220VAC 50HZ IP65	TYPE:CROMA GARDENA	WEIGHT:
SPECIFICATION:CROMA GARDENA 3	DIMENSION: 200X92mm	SERIAL No.:11677595

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total
5.0	400.5	391.7	387.2	386.2	394.1	388.4	385.3	389.1	0- 5	9.347	9.347
10.0	394.4	384.1	375.3	380.1	383.3	380.1	369.0	377.0	5- 10	27.42	36.77
15.0	385.0	368.1	361.2	370.3	379.4	364.1	354.3	362.6	10- 15	44.14	80.91
20.0	360.6	342.9	341.0	356.2	361.1	343.5	329.0	333.6	15- 20	58.44	139.3
25.0	320.9	306.9	309.7	323.2	322.9	306.2	294.1	294.0	20- 25	67.73	207.0
30.0	272.5	256.4	267.1	278.4	270.2	260.6	244.6	247.4	25- 30	70.75	277.8
35.0	218.2	209.5	220.2	224.9	216.6	210.7	196.7	199.0	30- 35	67.94	345.7
40.0	171.7	165.8	175.7	177.8	168.5	161.8	151.7	153.6	35- 40	61.05	406.8
45.0	130.5	126.1	134.3	135.8	127.5	123.9	113.0	114.6	40- 45	52.12	458.9
50.0	89.83	88.92	96.11	92.29	86.36	85.36	76.89	78.35	45- 50	40.93	499.9
55.0	61.13	60.40	66.59	63.50	57.57	57.67	51.11	53.11	50- 55	30.00	529.9
60.0	40.99	38.99	43.73	41.81	37.17	37.71	33.61	34.80	55- 60	21.20	551.1
65.0	27.69	25.60	28.97	27.42	23.77	23.96	20.77	22.50	60- 65	14.59	565.7
70.0	17.85	16.49	19.04	17.03	14.85	15.67	13.48	14.66	65- 70	9.774	575.4
75.0	11.57	10.29	11.93	10.65	9.201	10.20	8.472	9.475	70- 75	6.469	581.9
80.0	7.106	6.195	7.744	6.013	5.101	6.286	4.828	5.830	75- 80	4.096	586.0
85.0	4.555	3.553	4.737	3.644	3.279	4.282	3.097	4.008	80- 85	2.513	588.5
90.0	3.553	2.642	3.644	2.733	2.642	3.462	2.459	3.370	85- 90	1.826	590.3
95.0	3.097	2.277	3.188	2.277	2.277	3.097	2.186	3.006	90- 95	1.531	591.9
100.0	2.915	2.277	2.915	2.186	2.277	2.915	2.186	2.915	95-100	1.403	593.3
105.0	2.915	2.277	2.915	2.277	2.277	2.915	2.277	2.824	100-105	1.374	594.6
110.0	2.915	2.277	2.824	2.277	2.368	2.915	2.277	2.733	105-110	1.340	596.0
115.0	2.915	2.368	2.824	2.368	2.459	2.824	2.368	2.824	110-115	1.308	597.3
120.0	2.915	2.368	2.824	2.368	2.459	2.824	2.459	2.824	115-120	1.269	598.6
125.0	2.915	2.459	2.824	2.459	2.550	2.915	2.550	2.915	120-125	1.228	599.8
130.0	3.006	2.550	2.915	2.550	2.642	2.915	2.550	2.915	125-130	1.185	601.0
135.0	3.097	2.733	3.006	2.642	2.824	3.006	2.642	3.006	130-135	1.133	602.1
140.0	3.097	2.824	3.097	2.733	2.915	3.097	2.733	3.006	135-140	1.068	603.2
145.0	3.279	2.915	3.188	2.824	2.915	3.097	2.915	3.097	140-145	0.992	604.2
150.0	3.279	3.006	3.188	2.915	3.097	3.188	3.006	3.188	145-150	0.904	605.1
155.0	3.462	3.097	3.370	3.097	3.188	3.279	3.097	3.279	150-155	0.800	605.9
160.0	3.462	3.188	3.370	3.188	3.279	3.370	3.188	3.370	155-160	0.681	606.6
165.0	3.553	3.279	3.462	3.279	3.462	3.370	3.279	3.370	160-165	0.547	607.1
170.0	3.553	3.370	3.553	3.279	3.462	3.462	3.370	3.370	165-170	0.402	607.5
175.0	3.644	3.462	3.553	3.370	3.553	3.462	3.462	3.462	170-175	0.246	607.8
180.0	3.553	3.462	3.553	3.370	3.644	3.553	3.462	3.462	175-180	0.083	607.8
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

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

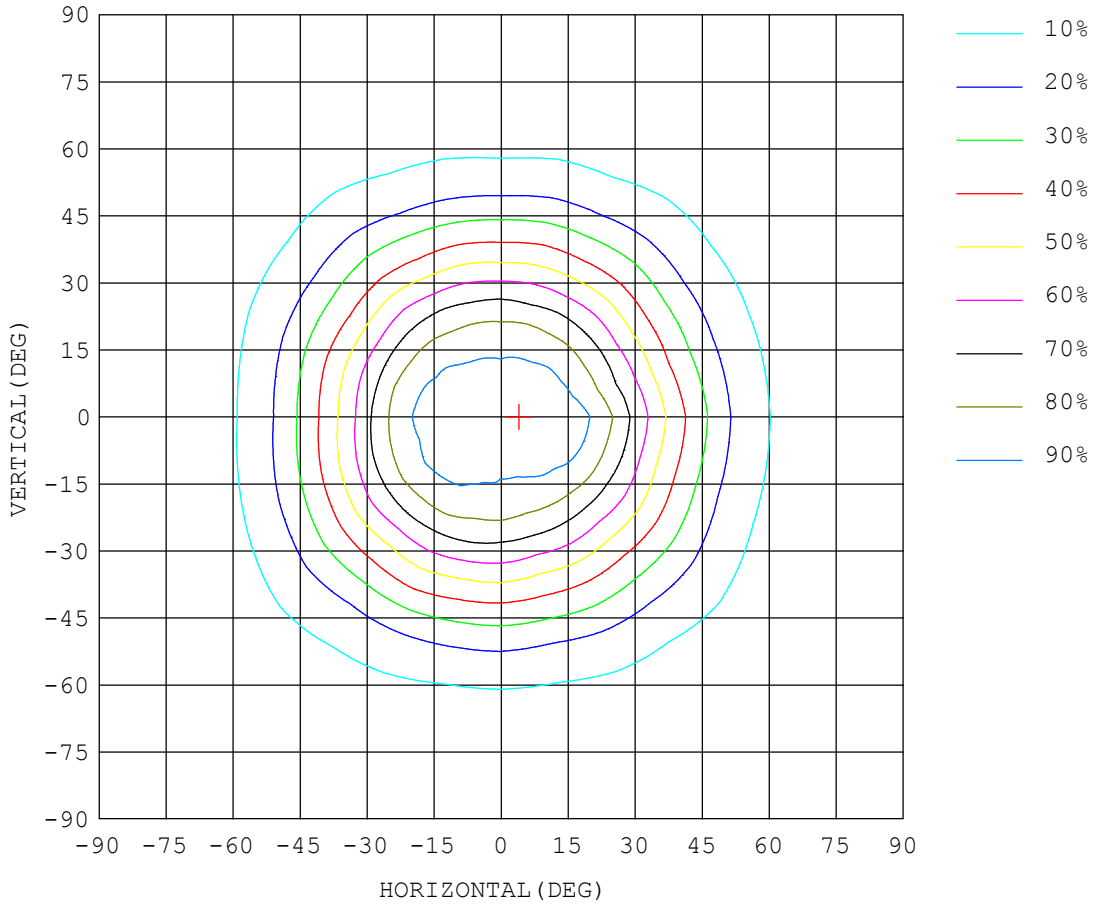
Test Set: 2.0deg/s C-Gamma (TYPE C)
Humidity:55%
Test Distance:9.545 m
Remarks: CG3 Z509 G 60D 12W 220VAC 50HZ IP65

ISOCANDELA DIAGRAM

Report number: 0000303

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 G 60D 12W 220VAC 50HZ IP65	TYPE: CROMA GARDENA	WEIGHT:
SPECIFICATION: CROMA GARDENA 3	DIMENSION: 200X92mm	SERIAL No.: 11677595

UNIT: cd



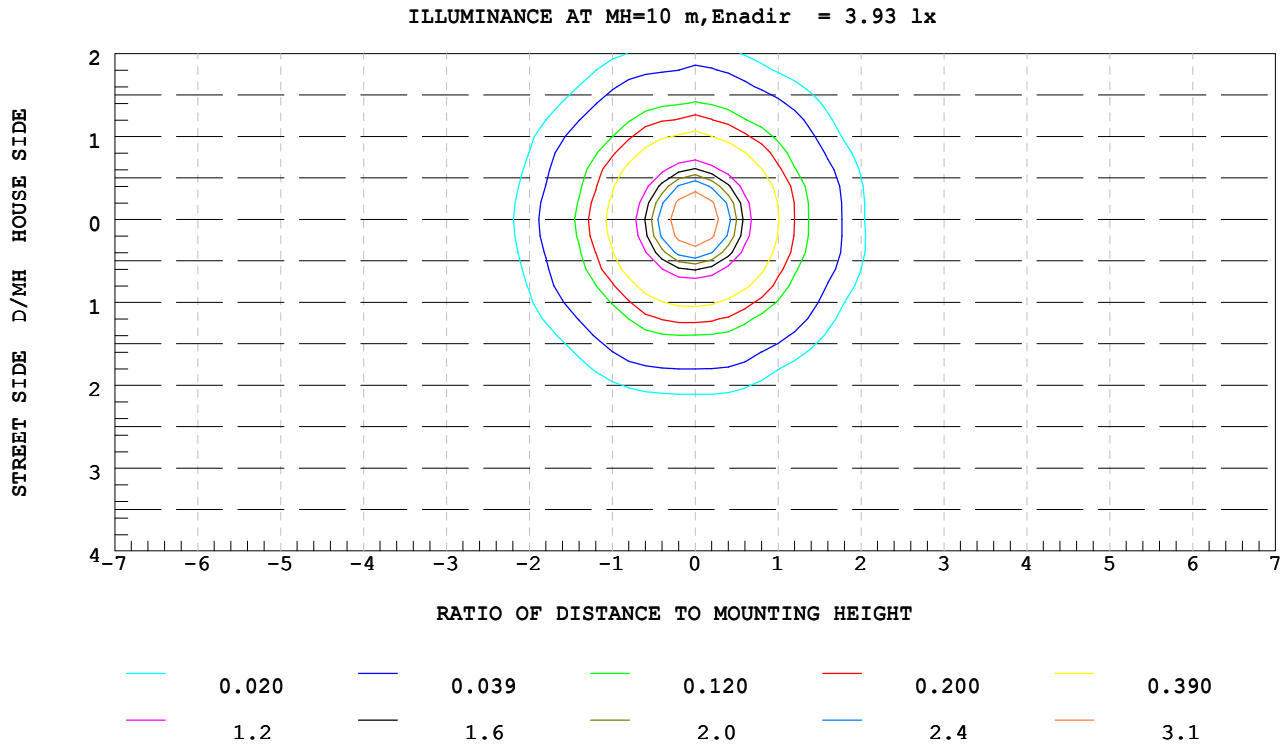
Test System: LSG-1600
Temperature: 21 DEG
Operators: FATMA KARA
Test Date: 02-28-2014

Test Set: 2.0 deg/s C-Gamma (TYPE C)
Humidity: 55%
Test Distance: 9.545 m
Remarks: CG3 Z509 G 60D 12W 220VAC 50HZ IP65

ISOLUX DIAGRAM

Report number: 0000303

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 G 60D 12W 220VAC 50HZ IP65	TYPE: CROMA GARDENA	WEIGHT:
SPECIFICATION: CROMA GARDENA 3	DIMENSION: 200X92mm	SERIAL No.: 11677595



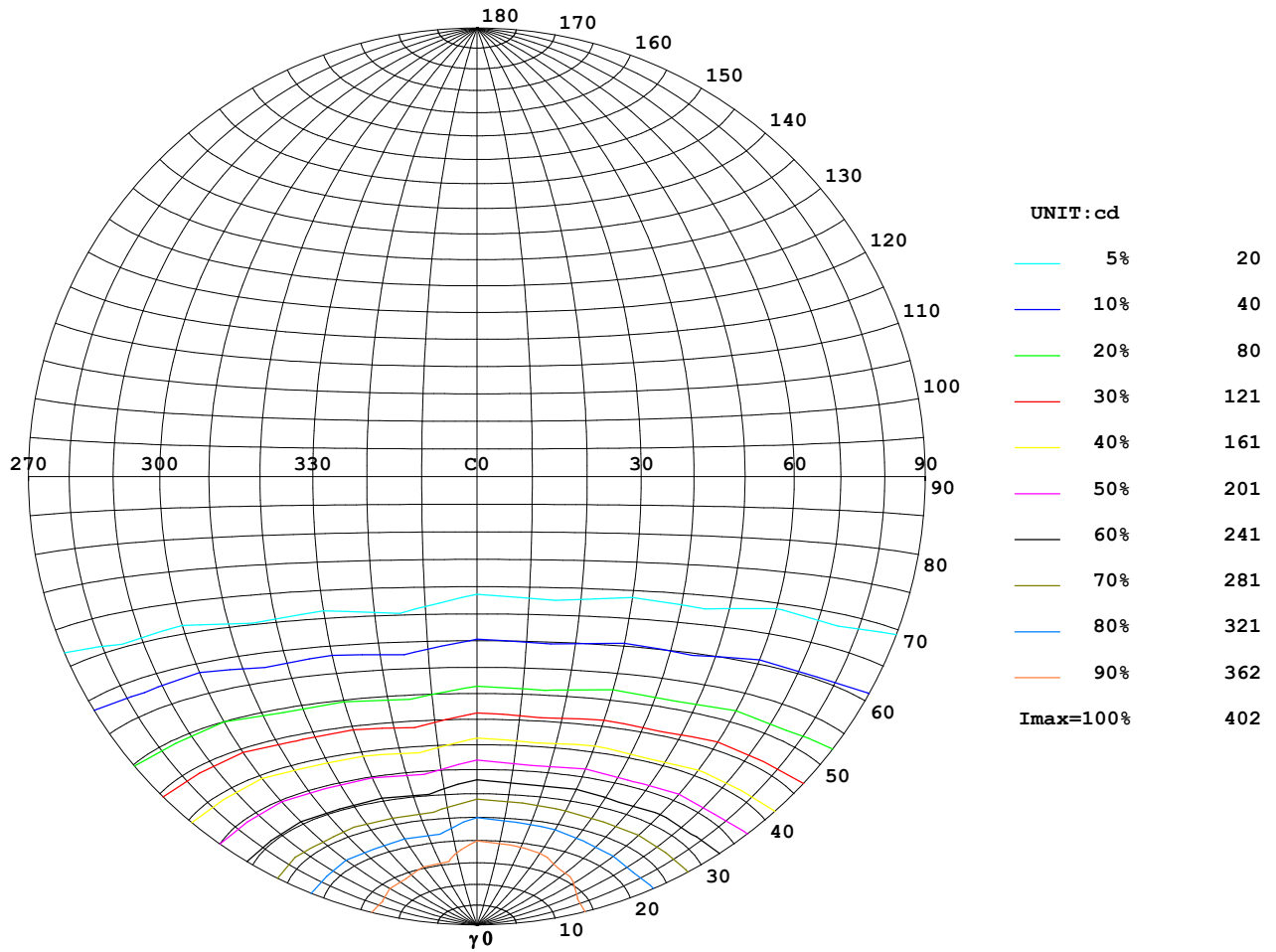
Test System: LSG-1600
 Temperature: 21 DEG
 Operators: FATMA KARA
 Test Date: 02-28-2014

Test Set: 2.0 deg/s C-Gamma (TYPE C)
 Humidity: 55%
 Test Distance: 9.545 m
 Remarks: CG3 Z509 G 60D 12W 220VAC 50HZ IP65

ISOCANDELA DIAGRAM

Report number: 0000303

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 G 60D 12W 220VAC 50HZ IP65	TYPE: CROMA GARDENA	WEIGHT:
SPECIFICATION: CROMA GARDENA 3	DIMENSION: 200X92mm	SERIAL No.: 11677595



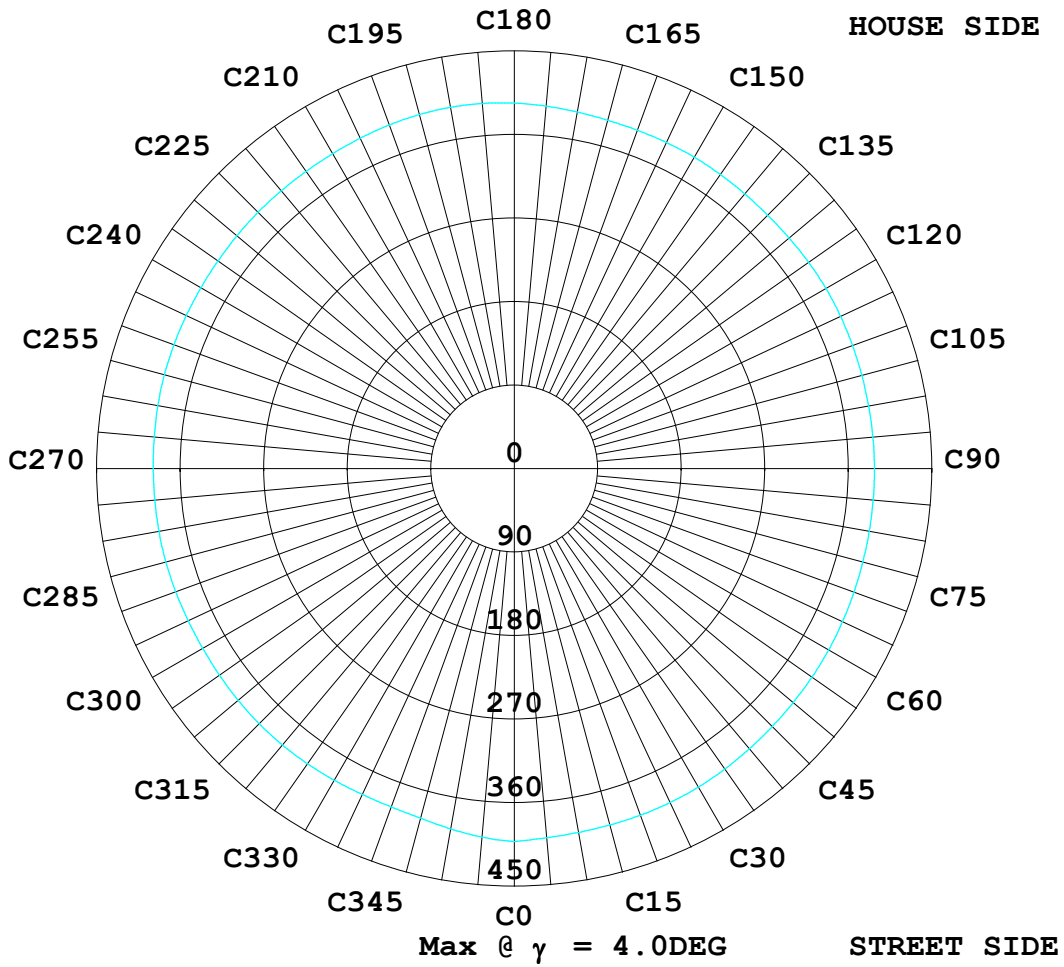
Test System: LSG-1600
 Temperature: 21 DEG
 Operators: FATMA KARA
 Test Date: 02-28-2014

Test Set: 2.0 deg/s C-Gamma (TYPE C)
 Humidity: 55%
 Test Distance: 9.545 m
 Remarks: CG3 Z509 G 60D 12W 220VAC 50HZ IP65

ISOCANDELA DIAGRAM

Report number: 0000303

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 G 60D 12W 220VAC 50HZ IP65	TYPE: CROMA GARDENA	WEIGHT:
SPECIFICATION: CROMA GARDENA 3	DIMENSION: 200X92mm	SERIAL No.: 11677595



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

Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity: 55%
 Test Distance: 9.545 m
 Remarks: CG3 Z509 G 60D 12W 220VAC 50HZ IP65

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 0000303

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 G 60D 12W 220VAC 50HZ IP65	TYPE: CROMA GARDENA	WEIGHT:
SPECIFICATION: CROMA GARDENA 3	DIMENSION: 200X92mm	SERIAL No.: 11677595

UNIT: cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210
0.0	400	399	397	395	394	394	393	392	391	390	390	391	400	399	397
5.0	401	398	395	392	390	388	387	385	385	386	386	386	394	393	391
10.0	394	392	388	384	380	376	375	373	376	380	382	383	383	386	383
15.0	385	380	377	368	363	356	361	362	367	370	374	374	379	378	369
20.0	361	355	354	343	339	335	341	344	353	356	361	357	361	354	346
25.0	321	314	311	307	300	304	310	311	320	323	329	326	323	320	308
30.0	273	264	265	256	260	258	267	272	273	278	281	280	270	269	261
35.0	218	212	216	210	214	211	220	222	228	225	234	226	217	215	210
40.0	172	167	171	166	169	168	176	176	182	178	183	177	169	168	161
45.0	131	126	129	126	130	129	134	134	139	136	141	135	128	126	121
50.0	89.8	86.3	92.5	88.9	93.1	91.1	96.1	94.8	95.2	92.2	100	95.0	86.3	88.8	83.4
55.0	61.1	58.9	63.5	60.4	63.5	61.7	66.5	64.2	65.5	63.5	67.5	64.2	57.5	59.1	54.7
60.0	40.9	38.9	41.6	38.9	42.2	41.2	43.7	41.9	43.9	41.8	44.5	41.3	37.1	38.7	35.5
65.0	27.6	25.4	27.8	25.6	28.0	26.6	28.9	27.2	29.6	27.4	29.7	26.5	23.7	25.2	22.3
70.0	17.8	16.2	18.2	16.4	18.4	17.2	19.0	17.4	19.1	17.0	18.8	16.5	14.8	16.2	13.8
75.0	11.5	10.3	11.8	10.2	12.0	10.6	11.9	10.6	12.4	10.6	11.8	10.1	9.20	10.4	8.74
80.0	7.10	5.55	7.19	6.19	7.47	6.10	7.74	6.46	7.37	6.01	7.47	6.28	5.10	6.19	5.01
85.0	4.55	3.46	4.55	3.55	4.55	3.55	4.73	3.73	4.73	3.64	4.82	3.73	3.27	4.28	3.18
90.0	3.55	2.64	3.64	2.64	3.64	2.64	3.64	2.73	3.64	2.73	3.64	2.73	2.64	3.46	2.55
95.0	3.09	2.27	3.09	2.27	3.09	2.27	3.18	2.27	3.09	2.27	3.09	2.27	2.27	3.00	2.18
100.0	2.91	2.18	2.91	2.27	2.91	2.27	2.91	2.18	2.91	2.18	3.00	2.18	2.27	2.91	2.18
105.0	2.91	2.27	2.91	2.27	2.82	2.18	2.91	2.18	2.82	2.27	2.91	2.18	2.27	2.82	2.27
110.0	2.91	2.27	2.82	2.27	2.82	2.27	2.82	2.27	2.82	2.27	2.82	2.27	2.36	2.82	2.27
115.0	2.91	2.36	2.82	2.36	2.82	2.27	2.82	2.36	2.82	2.36	2.82	2.36	2.45	2.82	2.36
120.0	2.91	2.45	2.82	2.36	2.82	2.36	2.82	2.36	2.82	2.36	2.82	2.36	2.45	2.82	2.36
125.0	2.91	2.45	2.91	2.45	2.91	2.45	2.82	2.45	2.91	2.45	2.82	2.45	2.55	2.91	2.45
130.0	3.00	2.64	2.91	2.55	2.91	2.55	2.91	2.55	2.91	2.55	2.91	2.55	2.64	2.91	2.55
135.0	3.09	2.73	3.00	2.73	3.00	2.73	3.00	2.73	3.00	2.64	3.00	2.64	2.82	3.00	2.64
140.0	3.09	2.82	3.00	2.82	3.00	2.73	3.09	2.82	3.00	2.73	3.00	2.73	2.91	3.00	2.82
145.0	3.27	2.91	3.18	2.91	3.09	2.82	3.18	2.82	3.09	2.82	3.09	2.82	2.91	3.09	2.82
150.0	3.27	3.09	3.18	3.00	3.09	3.00	3.18	3.00	3.18	2.91	3.18	3.00	3.09	3.18	3.00
155.0	3.46	3.18	3.27	3.09	3.27	3.09	3.37	3.09	3.27	3.09	3.27	3.09	3.18	3.27	3.09
160.0	3.46	3.27	3.37	3.18	3.27	3.18	3.37	3.18	3.27	3.18	3.27	3.18	3.27	3.37	3.18
165.0	3.55	3.37	3.37	3.27	3.37	3.27	3.46	3.27	3.37	3.27	3.37	3.27	3.46	3.37	3.27
170.0	3.55	3.37	3.46	3.37	3.37	3.37	3.55	3.37	3.46	3.27	3.46	3.27	3.46	3.46	3.37
175.0	3.64	3.37	3.46	3.46	3.55	3.37	3.55	3.37	3.46	3.37	3.46	3.37	3.55	3.46	3.37
180.0	3.55	3.46	3.46	3.46	3.46	3.46	3.55	3.46	3.46	3.37	3.46	3.46	3.64	3.55	3.46

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: 55%
 Test Distance: 9.545 m
 Remarks: CG3 Z509 G 60D 12W 220VAC 50HZ IP65

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 0000303

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 G 60D 12W 220VAC 50HZ IP65	TYPE: CROMA GARDENA	WEIGHT:
SPECIFICATION: CROMA GARDENA 3	DIMENSION: 200X92mm	SERIAL No.: 11677595

UNIT: cd

C (DEG) γ (DEG)	225	240	255	270	285	300	315	330	345
0.0	395	394	394	393	392	391	390	390	391
5.0	388	386	385	385	387	386	389	388	389
10.0	380	376	372	369	372	373	377	379	384
15.0	364	357	355	354	357	358	363	364	368
20.0	344	334	331	329	332	332	334	336	340
25.0	306	301	295	294	292	293	294	295	298
30.0	261	252	248	245	246	244	247	243	252
35.0	211	201	201	197	198	196	199	194	200
40.0	162	156	157	152	156	152	154	150	153
45.0	124	118	116	113	115	112	115	110	114
50.0	85.3	78.5	78.8	76.8	80.0	76.3	78.3	75.0	79.2
55.0	57.6	53.2	54.6	51.1	53.6	50.0	53.1	50.1	53.6
60.0	37.7	34.5	35.8	33.6	34.9	32.2	34.8	32.6	35.4
65.0	23.9	21.8	23.5	20.7	22.5	20.4	22.5	20.5	22.8
70.0	15.6	13.8	15.4	13.4	14.7	13.0	14.6	13.1	15.0
75.0	10.2	8.74	10.0	8.47	9.65	7.92	9.47	8.29	9.74
80.0	6.28	5.01	6.19	4.82	5.83	4.64	5.83	4.64	5.92
85.0	4.28	3.09	4.09	3.09	4.09	3.00	4.00	3.00	4.09
90.0	3.46	2.55	3.37	2.45	3.37	2.45	3.37	2.45	3.37
95.0	3.09	2.18	3.00	2.18	3.00	2.27	3.00	2.18	3.00
100.0	2.91	2.18	2.91	2.18	2.91	2.18	2.91	2.18	2.91
105.0	2.91	2.27	2.82	2.27	2.82	2.18	2.82	2.27	2.82
110.0	2.91	2.27	2.73	2.27	2.82	2.27	2.73	2.27	2.82
115.0	2.82	2.36	2.82	2.36	2.82	2.36	2.82	2.27	2.82
120.0	2.82	2.36	2.82	2.45	2.82	2.36	2.82	2.45	2.82
125.0	2.91	2.45	2.82	2.55	2.82	2.45	2.91	2.55	2.82
130.0	2.91	2.55	2.91	2.55	2.91	2.55	2.91	2.55	2.91
135.0	3.00	2.73	3.00	2.64	2.91	2.73	3.00	2.64	3.00
140.0	3.09	2.73	3.00	2.73	3.00	2.73	3.00	2.82	3.00
145.0	3.09	2.82	3.09	2.91	3.09	2.91	3.09	2.91	3.09
150.0	3.18	2.91	3.18	3.00	3.18	3.00	3.18	3.00	3.18
155.0	3.27	3.09	3.27	3.09	3.27	3.00	3.27	3.09	3.27
160.0	3.37	3.18	3.37	3.18	3.37	3.18	3.37	3.18	3.37
165.0	3.37	3.27	3.46	3.27	3.37	3.27	3.37	3.27	3.46
170.0	3.46	3.37	3.55	3.37	3.46	3.37	3.37	3.37	3.46
175.0	3.46	3.37	3.46	3.46	3.46	3.37	3.46	3.37	3.46
180.0	3.55	3.46	3.46	3.46	3.46	3.46	3.46	3.37	3.46

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: 55%
 Test Distance: 9.545 m
 Remarks: CG3 Z509 G 60D 12W 220VAC 50HZ IP65