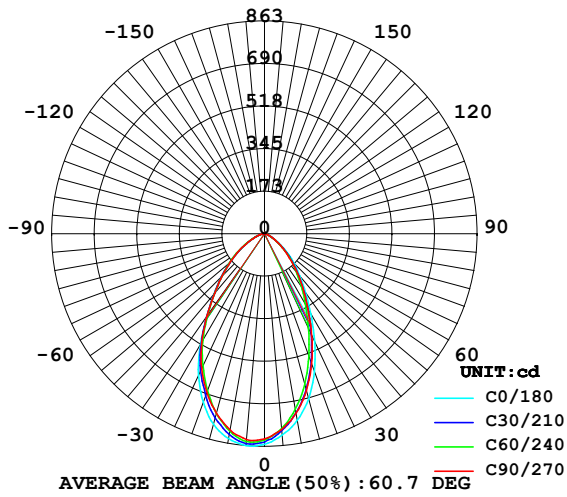
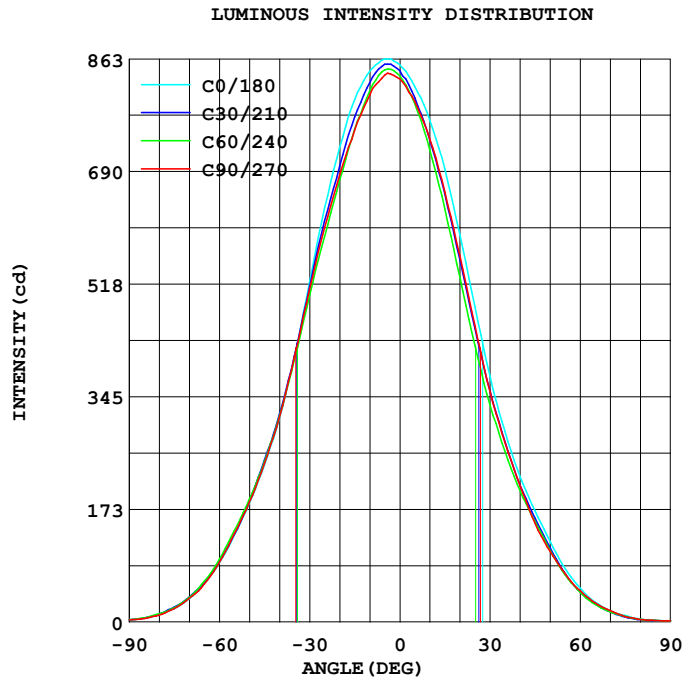


STREETLIGHT PHOTOMETRIC TEST REPORT

Report number: 0000525

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 CW 60D 12W 220VAC 50HZ	TYPE: CROMA GARDENA	WEIGHT: ---
SPECIFICATION: CROMA GARDENA 3	DIMENSION: Ø152	SERIAL No.: 11674132

TEST DATA:					
MODEL:	CG3	Imax (cd) :	862.9	η street_up (%) :	0.8
NOMINAL POWER (W) :	12	MAXIMUM (C, γ) :	0,4.0	η street_down (%) :	56.7
RATED VOLTAGE (V) :	220	TOTAL FLUX (lm) :	1035	η house_up (%) :	0.7
NOMINAL FLUX (lm) :	1035.1	EFFICIENCY (%) :	100.0	η house_down (%) :	41.9
TEST FLUX (lm) :	1035	η up (%) :	1.4		
LAMPS QUANTITY:	1	η down (%) :	98.6		

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSINTENSITY DISTRIBUTION DIAGRAM
IN C PLANS

Test: U:220.6V I:0.103A P:11.85W PF:0.519

Test System: LSG-1600
 Temperature: 28 DEG
 Operators: FATMA KARA
 Test Date: 08-19-2014

Test Set: 2.0 deg/s C-Gamma (TYPE C)
 Humidity: 58%
 Test Distance: 9.545 m
 Remarks: CG3 Z509 CW 60D 12W 220VAC 50HZ

ZONAL FLUX DIAGRAM

Report number: 0000525

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 CW 60D 12W 220VAC 50HZ	TYPE: CROMA GARDENA	WEIGHT: ---
SPECIFICATION: CROMA GARDENA 3	DIMENSION: Ø152	SERIAL No.: 11674132

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total
5.0	862.8	849.2	838.0	819.4	820.3	798.1	797.6	815.2	0- 5	19.79	19.79
10.0	844.2	815.6	807.2	783.7	768.5	729.5	739.6	783.5	5- 10	57.09	76.88
15.0	800.2	757.8	754.0	727.4	694.0	641.8	658.5	720.2	10- 15	88.14	165.0
20.0	727.2	676.6	684.7	646.9	593.4	538.9	560.8	630.0	15- 20	109.5	274.5
25.0	634.4	590.6	604.2	550.7	482.7	434.2	453.8	521.6	20- 25	119.7	394.2
30.0	520.8	495.7	509.7	441.3	376.9	342.1	353.2	406.7	25- 30	118.7	513.0
35.0	407.7	399.5	407.3	345.9	291.5	269.8	274.5	310.9	30- 35	109.5	622.5
40.0	312.2	316.7	313.9	271.8	222.6	207.6	208.8	239.7	35- 40	96.48	719.0
45.0	240.7	240.7	242.6	202.1	169.8	158.4	150.8	182.6	40- 45	82.22	801.2
50.0	182.1	184.0	183.4	148.3	123.5	114.6	108.3	137.3	45- 50	67.44	868.7
55.0	133.1	136.7	135.1	109.6	81.54	75.52	73.79	95.02	50- 55	52.52	921.2
60.0	90.28	92.74	90.92	69.33	51.93	48.28	47.92	61.77	55- 60	37.93	959.1
65.0	58.85	58.85	58.12	43.91	30.33	29.24	29.33	39.17	60- 65	25.60	984.7
70.0	35.53	35.44	36.07	25.96	16.94	16.76	17.49	23.77	65- 70	16.30	1001
75.0	20.59	20.22	20.49	14.39	9.839	9.475	8.199	12.84	70- 75	9.730	1011
80.0	11.57	11.02	10.75	7.015	4.555	4.828	3.826	6.559	75- 80	5.323	1016
85.0	5.830	5.101	5.010	3.370	2.459	2.915	2.186	3.462	80- 85	2.721	1019
90.0	3.462	2.733	3.188	2.095	1.548	2.186	1.639	2.550	85- 90	1.553	1020
95.0	2.368	1.731	2.368	1.548	1.366	1.913	1.366	2.004	90- 95	1.095	1021
100.0	2.004	1.366	1.913	1.457	1.457	1.913	1.366	1.913	95-100	0.923	1022
105.0	1.913	1.457	1.913	1.457	1.548	1.913	1.457	1.913	100-105	0.902	1023
110.0	1.913	1.548	1.913	1.639	1.639	1.913	1.639	1.822	105-110	0.899	1024
115.0	2.004	1.639	1.913	1.731	1.822	2.095	1.731	1.913	110-115	0.911	1025
120.0	2.004	1.731	2.004	1.822	2.004	2.095	1.913	2.095	115-120	0.929	1026
125.0	2.186	1.913	2.095	2.004	2.186	2.277	2.186	2.186	120-125	0.952	1027
130.0	2.368	2.095	2.277	2.277	2.459	2.459	2.368	2.459	125-130	0.970	1028
135.0	2.550	2.277	2.459	2.459	2.642	2.733	2.642	2.642	130-135	0.987	1029
140.0	2.733	2.550	2.733	2.733	2.915	2.915	2.915	2.824	135-140	0.996	1030
145.0	3.006	2.824	3.006	3.097	3.279	3.279	3.188	3.188	140-145	0.985	1031
150.0	3.279	3.097	3.188	3.370	3.462	3.462	3.462	3.279	145-150	0.949	1032
155.0	3.553	3.370	3.553	3.553	3.826	3.735	3.644	3.553	150-155	0.884	1033
160.0	3.826	3.644	3.735	3.826	4.008	4.008	3.917	3.735	155-160	0.785	1034
165.0	4.099	4.008	4.008	4.008	4.282	4.190	4.190	4.008	160-165	0.655	1034
170.0	4.373	4.190	4.282	4.190	4.464	4.282	4.373	4.099	165-170	0.493	1035
175.0	4.464	4.282	4.464	4.282	4.555	4.373	4.464	4.282	170-175	0.308	1035
180.0	4.555	4.373	4.555	4.282	4.646	4.373	4.464	4.373	175-180	0.104	1035
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System: LSG-1600
 Temperature: 28DEG
 Operators: FATMA KARA
 Test Date: 08-19-2014

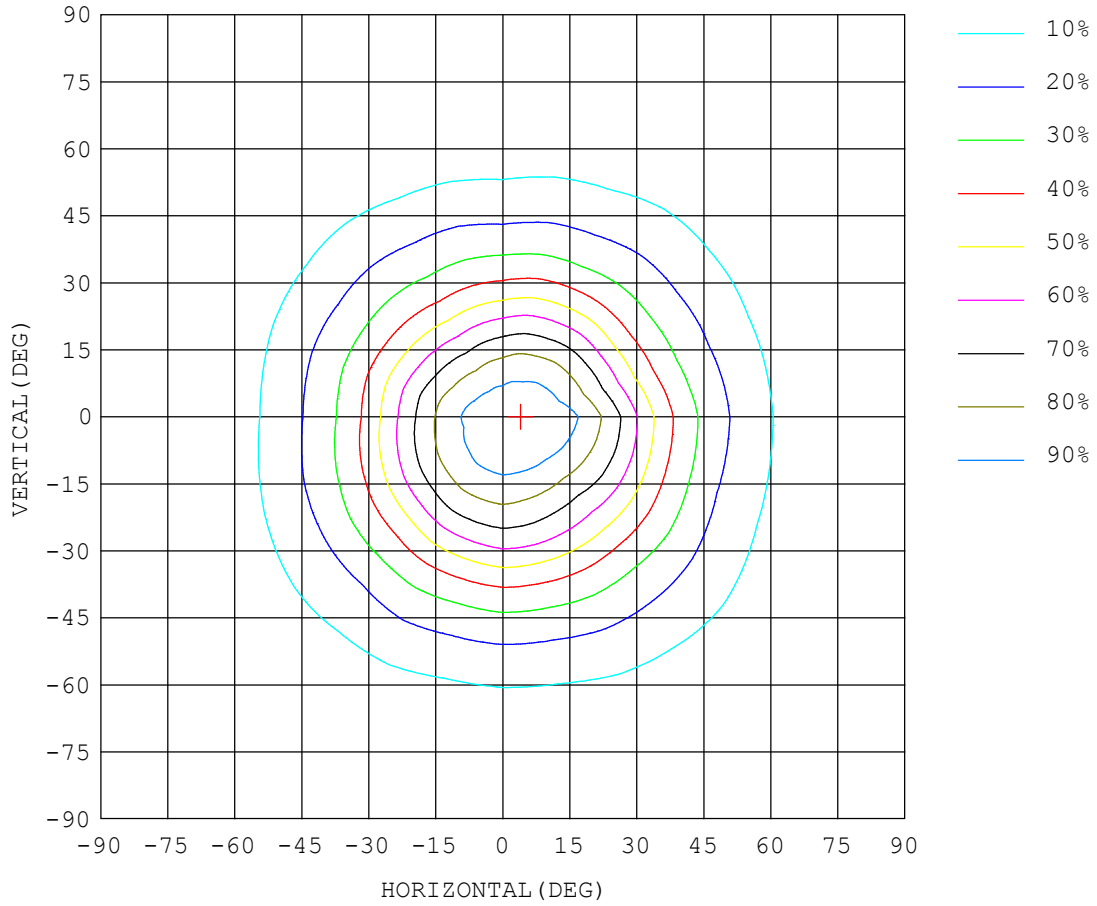
Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity: 58%
 Test Distance: 9.545 m
 Remarks: CG3 Z509 CW 60D 12W 220VAC 50HZ

ISOCANDELA DIAGRAM

Report number: 0000525

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 CW 60D 12W 220VAC 50HZ	TYPE: CROMA GARDENA	WEIGHT: ---
SPECIFICATION: CROMA GARDENA 3	DIMENSION: Ø152	SERIAL No.: 11674132

UNIT: cd



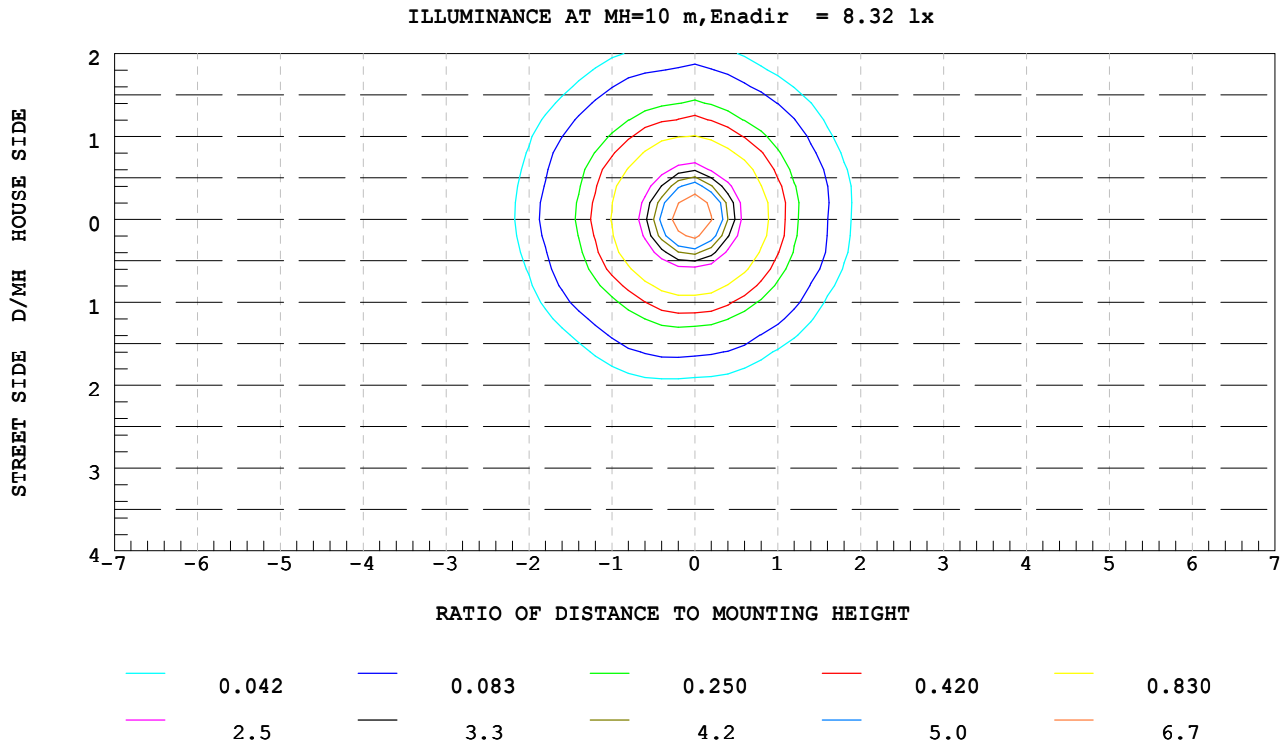
Test System: LSG-1600
Temperature: 28 DEG
Operators: FATMA KARA
Test Date: 08-19-2014

Test Set: 2.0 deg/s C-Gamma (TYPE C)
Humidity: 58%
Test Distance: 9.545 m
Remarks: CG3 Z509 CW 60D 12W 220VAC 50HZ

ISOLUX DIAGRAM

Report number: 0000525

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 CW 60D 12W 220VAC 50HZ	TYPE: CROMA GARDENA	WEIGHT: ---
SPECIFICATION: CROMA GARDENA 3	DIMENSION: Ø152	SERIAL No.: 11674132



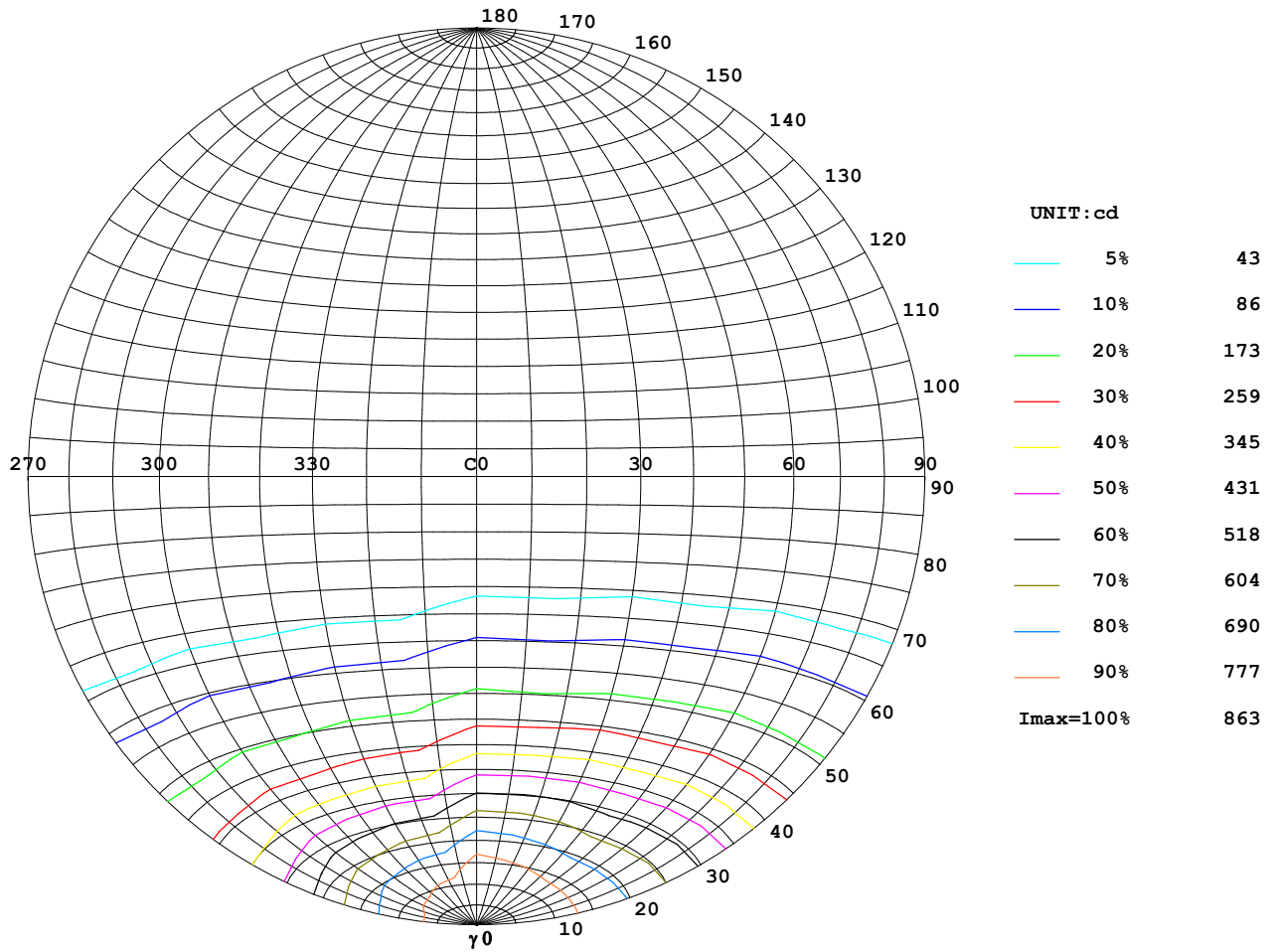
Test System: LSG-1600
 Temperature: 28DEG
 Operators: FATMA KARA
 Test Date: 08-19-2014

Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity: 58%
 Test Distance: 9.545 m
 Remarks: CG3 Z509 CW 60D 12W 220VAC 50HZ

ISOCANDELA DIAGRAM

Report number: 0000525

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 CW 60D 12W 220VAC 50HZ	TYPE: CROMA GARDENA	WEIGHT: ---
SPECIFICATION: CROMA GARDENA 3	DIMENSION: Ø152	SERIAL No.: 11674132



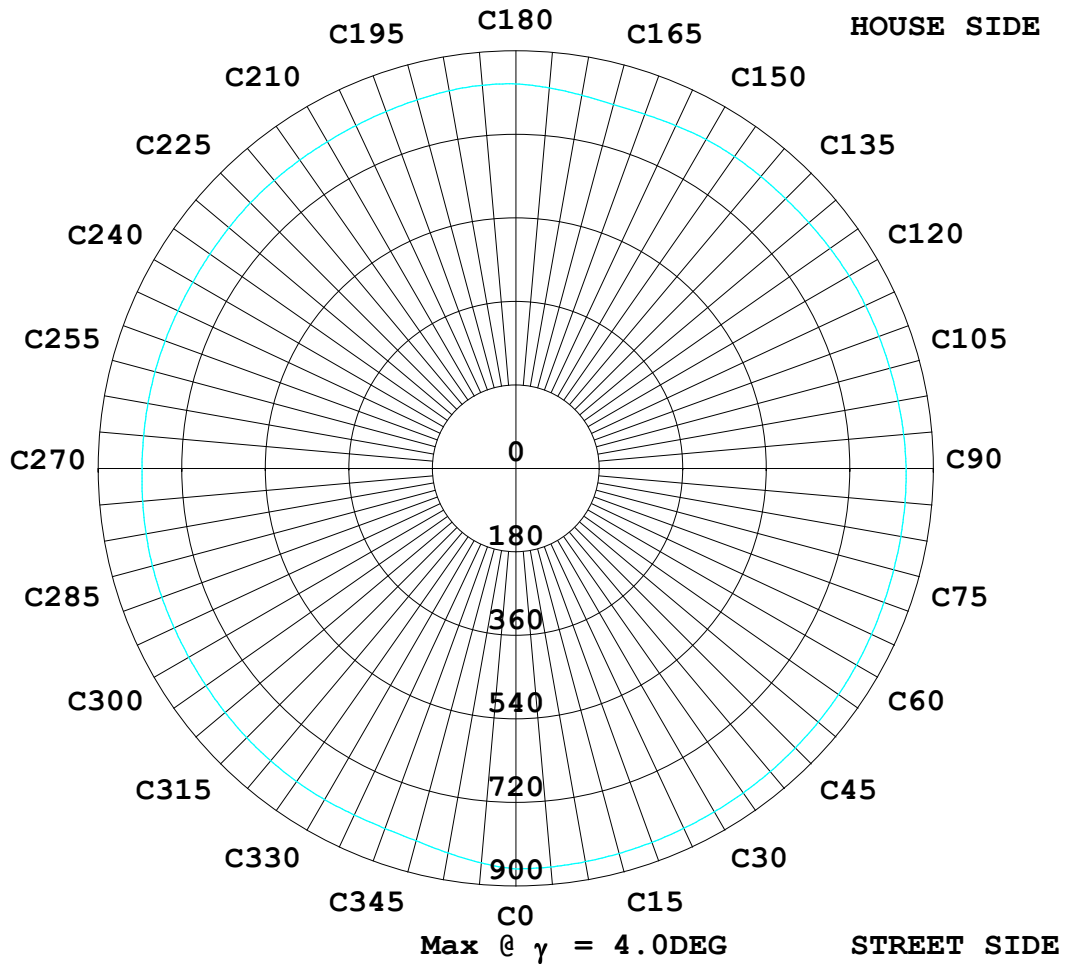
Test System: LSG-1600
 Temperature: 28DEG
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 Test Date: 08-19-2014

Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity: 58%
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ISOCANDELA DIAGRAM

Report number: 0000525

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 CW 60D 12W 220VAC 50HZ	TYPE: CROMA GARDENA	WEIGHT: ---
SPECIFICATION: CROMA GARDENA 3	DIMENSION: Ø152	SERIAL No.: 11674132



Test System: LSG-1600
 Temperature: 28DEG
 Operators: FATMA KARA
 Test Date: 08-19-2014

Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity: 58%
 Test Distance: 9.545 m
 Remarks: CG3 Z509 CW 60D 12W 220VAC 50HZ

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 0000525

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 CW 60D 12W 220VAC 50HZ	TYPE: CROMA GARDENA	WEIGHT: ---
SPECIFICATION: CROMA GARDENA 3	DIMENSION: Ø152	SERIAL No.: 11674132

UNIT: cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210
0.0	854	850	845	841	837	835	832	831	829	829	829	829	854	850	845
5.0	863	858	855	849	846	842	838	831	827	819	813	806	820	813	803
10.0	844	836	827	816	814	809	807	800	793	784	777	766	769	756	739
15.0	800	788	774	758	755	752	754	747	742	727	717	702	694	680	656
20.0	727	714	698	677	677	679	685	675	668	647	633	613	593	584	555
25.0	634	630	615	591	591	600	604	590	578	551	532	506	483	475	449
30.0	521	522	513	496	500	507	510	489	473	441	424	402	377	373	354
35.0	408	407	409	400	403	404	407	387	374	346	333	317	292	287	276
40.0	312	316	319	317	316	317	314	301	289	272	262	243	223	222	209
45.0	241	241	248	241	245	242	243	229	223	202	196	186	170	168	159
50.0	182	175	186	184	188	182	183	172	169	148	146	139	124	123	113
55.0	133	126	134	137	140	134	135	125	123	110	105	96.4	81.5	80.9	73.7
60.0	90.2	87.4	93.8	92.7	95.8	91.2	90.9	82.4	80.9	69.3	68.5	61.4	51.9	51.5	45.9
65.0	58.8	55.7	60.2	58.8	62.5	57.5	58.1	51.8	50.9	43.9	43.2	37.3	30.3	31.2	27.8
70.0	35.5	35.0	38.2	35.4	37.6	34.8	36.0	30.8	31.1	25.9	26.0	21.8	16.9	17.9	15.3
75.0	20.5	20.0	22.6	20.2	22.0	19.4	20.4	16.9	17.4	14.3	14.7	12.1	9.83	9.65	7.74
80.0	11.5	10.0	12.2	11.0	12.3	9.93	10.7	9.47	10.1	7.01	7.74	5.73	4.55	4.82	3.46
85.0	5.83	4.55	6.01	5.10	6.37	4.37	5.01	3.82	4.91	3.37	4.00	2.91	2.45	3.00	2.09
90.0	3.46	2.45	3.37	2.73	3.64	2.36	3.18	2.27	3.09	2.09	2.73	1.91	1.54	2.18	1.54
95.0	2.36	1.63	2.45	1.73	2.55	1.63	2.36	1.54	2.18	1.54	2.09	1.45	1.36	1.91	1.45
100.0	2.00	1.36	2.00	1.36	1.91	1.36	1.91	1.36	1.91	1.45	1.91	1.36	1.45	1.91	1.45
105.0	1.91	1.45	1.91	1.45	1.91	1.45	1.91	1.45	1.91	1.45	1.91	1.54	1.54	1.91	1.54
110.0	1.91	1.54	1.82	1.54	1.91	1.45	1.91	1.54	1.91	1.63	1.91	1.63	1.63	1.91	1.63
115.0	2.00	1.54	1.91	1.63	1.91	1.63	1.91	1.63	2.00	1.73	1.91	1.73	1.82	2.00	1.82
120.0	2.00	1.82	2.00	1.73	2.00	1.73	2.00	1.82	2.00	1.82	2.09	1.91	2.00	2.18	1.91
125.0	2.18	2.00	2.18	1.91	2.09	1.91	2.09	2.00	2.18	2.00	2.18	2.09	2.18	2.27	2.18
130.0	2.36	2.09	2.27	2.09	2.27	2.00	2.27	2.18	2.36	2.27	2.36	2.36	2.45	2.55	2.36
135.0	2.55	2.36	2.45	2.27	2.45	2.27	2.45	2.36	2.45	2.45	2.64	2.55	2.64	2.73	2.64
140.0	2.73	2.64	2.64	2.55	2.64	2.55	2.73	2.64	2.73	2.73	2.91	2.82	2.91	3.00	2.91
145.0	3.00	2.91	3.00	2.82	2.91	2.82	3.00	2.91	3.00	3.09	3.09	3.18	3.27	3.27	3.18
150.0	3.27	3.18	3.18	3.09	3.18	3.18	3.18	3.18	3.27	3.37	3.37	3.37	3.46	3.55	3.46
155.0	3.55	3.46	3.46	3.37	3.46	3.37	3.55	3.55	3.55	3.55	3.64	3.64	3.82	3.73	3.73
160.0	3.82	3.73	3.73	3.64	3.73	3.64	3.73	3.82	3.82	3.82	3.82	3.91	4.00	4.00	3.91
165.0	4.09	4.00	3.91	4.00	3.91	3.91	4.00	4.00	4.00	4.00	4.00	4.00	4.28	4.19	4.19
170.0	4.37	4.19	4.09	4.19	4.19	4.09	4.28	4.19	4.09	4.19	4.19	4.19	4.46	4.37	4.28
175.0	4.46	4.37	4.37	4.28	4.28	4.28	4.46	4.37	4.28	4.28	4.28	4.28	4.55	4.46	4.46
180.0	4.55	4.46	4.37	4.37	4.28	4.37	4.55	4.37	4.28	4.28	4.28	4.28	4.64	4.46	4.46

Test System: LSG-1600
 Temperature: 28 DEG
 Operators: FATMA KARA
 Test Date: 08-19-2014

Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity: 58%
 Test Distance: 9.545 m
 Remarks: CG3 Z509 CW 60D 12W 220VAC 50HZ

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 0000525

MANUFACTURER: Fiberli	Address: PSL ELEKTRONİK ANTALYA	
NAME: CG3 Z509 CW 60D 12W 220VAC 50HZ	TYPE: CROMA GARDENA	WEIGHT: ---
SPECIFICATION: CROMA GARDENA 3	DIMENSION: Ø152	SERIAL No.: 11674132

UNIT: cd

C (DEG) γ (DEG)	225	240	255	270	285	300	315	330	345
0.0	841	837	835	832	831	829	829	829	829
5.0	798	794	796	798	804	808	815	820	828
10.0	730	723	733	740	756	767	784	794	804
15.0	642	633	645	659	683	699	720	736	754
20.0	539	528	545	561	588	605	630	647	668
25.0	434	424	439	454	483	497	522	534	563
30.0	342	333	344	353	378	390	407	415	445
35.0	270	261	272	275	289	299	311	320	346
40.0	208	201	210	209	221	225	240	247	268
45.0	158	154	158	151	166	170	183	189	204
50.0	115	110	113	108	122	126	137	141	155
55.0	75.5	71.7	75.8	73.7	82.8	84.2	95.0	97.4	110
60.0	48.2	45.3	49.1	47.9	54.1	54.9	61.7	63.8	72.1
65.0	29.2	26.6	30.4	29.3	34.0	33.4	39.1	38.9	46.4
70.0	16.7	15.3	18.6	17.4	20.4	19.4	23.7	23.0	27.4
75.0	9.47	8.47	9.29	8.19	11.3	10.6	12.8	12.2	15.3
80.0	4.82	4.09	4.91	3.82	5.73	5.10	6.55	5.64	8.19
85.0	2.91	2.09	3.00	2.18	3.27	2.64	3.46	2.73	4.19
90.0	2.18	1.54	2.18	1.63	2.27	1.73	2.55	1.82	2.82
95.0	1.91	1.36	1.91	1.36	1.91	1.36	2.00	1.45	2.00
100.0	1.91	1.45	1.91	1.36	1.82	1.36	1.91	1.36	1.91
105.0	1.91	1.54	1.91	1.45	1.91	1.54	1.91	1.54	1.91
110.0	1.91	1.73	1.91	1.63	1.91	1.63	1.82	1.54	1.82
115.0	2.09	1.82	2.00	1.73	1.91	1.73	1.91	1.73	1.91
120.0	2.09	1.91	2.09	1.91	2.09	1.91	2.09	1.82	2.00
125.0	2.27	2.18	2.27	2.18	2.27	2.00	2.18	1.91	2.09
130.0	2.45	2.36	2.55	2.36	2.45	2.27	2.45	2.18	2.27
135.0	2.73	2.64	2.73	2.64	2.64	2.55	2.64	2.45	2.55
140.0	2.91	2.91	3.00	2.91	2.91	2.82	2.82	2.64	2.73
145.0	3.27	3.18	3.27	3.18	3.18	3.09	3.18	2.91	3.00
150.0	3.46	3.46	3.46	3.46	3.37	3.27	3.27	3.27	3.27
155.0	3.73	3.73	3.82	3.64	3.64	3.55	3.55	3.46	3.55
160.0	4.00	3.91	4.00	3.91	3.82	3.82	3.73	3.73	3.73
165.0	4.19	4.19	4.28	4.19	4.09	4.00	4.00	3.91	4.00
170.0	4.28	4.37	4.37	4.37	4.28	4.19	4.09	4.09	4.19
175.0	4.37	4.37	4.37	4.46	4.28	4.28	4.28	4.28	4.28
180.0	4.37	4.37	4.37	4.46	4.37	4.28	4.37	4.28	4.28

Test System: LSG-1600
 Temperature: 28 DEG
 Operators: FATMA KARA
 Test Date: 08-19-2014

Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity: 58%
 Test Distance: 9.545 m
 Remarks: CG3 Z509 CW 60D 12W 220VAC 50HZ