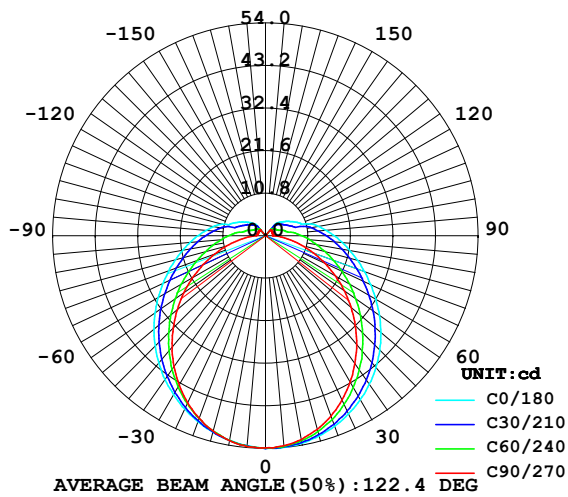
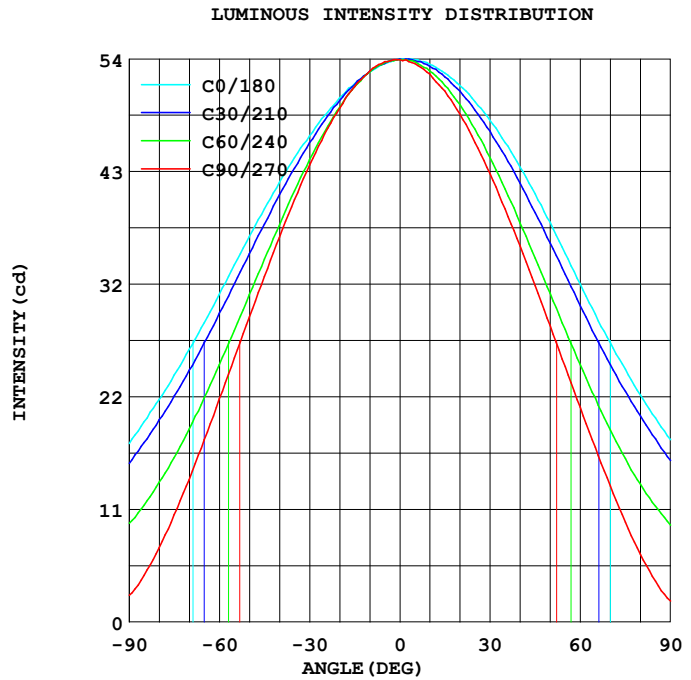


## STREETLIGHT PHOTOMETRIC TEST REPORT

Report number: 2016000063

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLB33 T30 CW 120D 2.4W 220V AC IP44	TYPE: LED LINE	WEIGHT:
SPECIFICATION: LED LINE BOLD 33	DIMENSION: 1010x45x33	SERIAL No.:

TEST DATA:					
MODEL:	LLB33	Imax (cd) :	54.02	$\eta$ street_up (%) :	6.9
NOMINAL POWER (W) :	2.4	MAXIMUM (C, $\gamma$ :	0,0.0	$\eta$ street_down (%) :	45.5
RATED VOLTAGE (V) :	220	TOTAL FLUX (lm) :	207.3	$\eta$ house_up (%) :	6.8
NOMINAL FLUX (lm) :	207.4	EFFICIENCY (%) :	100.0	$\eta$ house_down (%) :	40.8
TEST FLUX (lm) :	207.3	$\eta$ up (%) :	13.7		
LAMPS QUANTITY:	1	$\eta$ down (%) :	86.3		

INTENSITY DISTRIBUTION DIAGRAM  
IN C PLANSINTENSITY DISTRIBUTION DIAGRAM  
IN C PLANS

Test: U:220.8V I:0.076A P:2.400W PF:0.446

Test System: LSG-1600  
 Temperature: 25.3 DEG  
 Operators: REGAIP DASTAN  
 Test Date: 03-03-2016

Test Set: 2.0 deg/s C-Gamma (TYPE C)  
 Humidity: 65.0%  
 Test Distance: 9.545 m  
 Remarks: LLB33 T30 CW 120D 2.4W 220V AC IP44

## ZONAL FLUX DIAGRAM

Report number: 2016000063

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLB33 T30 CW 120D 2.4W 220V AC IP44	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE BOLD 33	DIMENSION: 1010x45x33	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total
5.0	53.57	53.57	53.75	53.84	53.93	53.84	53.57	53.57	0- 5	1.286	1.286
10.0	52.75	52.56	52.84	53.11	53.47	53.29	52.56	52.65	5- 10	3.808	5.094
15.0	51.65	51.11	51.38	51.93	52.65	52.11	50.92	51.29	10- 15	6.187	11.28
20.0	50.29	49.28	49.28	50.19	51.47	50.65	48.74	49.47	15- 20	8.343	19.62
25.0	48.56	47.10	46.82	48.01	49.92	48.65	46.00	47.28	20- 25	10.20	29.83
30.0	46.64	44.64	43.82	45.55	48.10	46.37	43.00	44.82	25- 30	11.72	41.56
35.0	44.55	41.90	40.54	42.72	46.00	43.73	39.63	42.09	30- 35	12.87	54.43
40.0	42.18	38.90	36.89	39.63	43.64	40.90	36.07	39.17	35- 40	13.63	68.07
45.0	39.63	35.89	33.16	36.53	41.08	37.80	32.25	36.16	40- 45	13.99	82.07
50.0	36.98	32.79	29.24	33.25	38.35	34.80	28.42	33.07	45- 50	13.98	96.06
55.0	34.25	29.70	25.32	29.97	35.34	31.61	24.50	29.97	50- 55	13.63	109.6
60.0	31.43	26.69	21.41	26.87	32.43	28.42	20.59	26.96	55- 60	12.99	122.6
65.0	28.69	23.77	17.49	23.77	29.51	25.41	16.76	24.05	60- 65	12.12	134.8
70.0	26.14	20.95	13.66	20.86	26.78	22.59	13.02	21.22	65- 70	11.08	145.9
75.0	23.68	18.49	10.29	18.31	24.23	19.86	9.566	18.67	70- 75	9.962	155.8
80.0	21.31	16.21	7.106	15.94	21.77	17.58	6.468	16.39	75- 80	8.806	164.6
85.0	19.22	14.03	4.464	13.93	19.58	15.39	3.917	14.30	80- 85	7.685	172.3
90.0	17.12	12.20	2.550	12.02	17.49	13.39	2.004	12.39	85- 90	6.641	179.0
95.0	15.21	10.47	2.186	10.29	15.57	11.57	1.822	10.65	90- 95	5.719	184.7
100.0	13.48	8.928	2.186	8.655	13.75	9.930	1.913	8.928	95-100	4.878	189.5
105.0	11.38	6.924	2.095	6.833	11.66	7.744	1.913	7.015	100-105	4.019	193.6
110.0	9.201	5.466	2.095	5.648	9.475	6.286	1.913	5.739	105-110	3.079	196.6
115.0	8.017	4.737	2.095	4.646	8.290	5.284	1.913	4.737	110-115	2.579	199.2
120.0	7.015	4.099	2.095	4.099	7.288	4.646	2.004	4.190	115-120	2.207	201.4
125.0	6.104	3.735	2.095	3.735	6.377	4.190	1.913	3.735	120-125	1.891	203.3
130.0	5.193	3.370	2.095	3.370	5.466	3.735	2.004	3.370	125-130	1.599	204.9
135.0	4.464	2.915	2.095	3.006	4.737	3.279	2.004	2.915	130-135	1.328	206.3
140.0	3.735	2.550	2.004	2.642	4.008	2.824	2.095	2.550	135-140	1.083	207.3
145.0	0	0	0	0	0	0	0	0	140-145	0	207.3
150.0	0	0	0	0	0	0	0	0	145-150	0	207.3
155.0	0	0	0	0	0	0	0	0	150-155	0	207.3
160.0	0	0	0	0	0	0	0	0	155-160	0	207.3
165.0	0	0	0	0	0	0	0	0	160-165	0	207.3
170.0	0	0	0	0	0	0	0	0	165-170	0	207.3
175.0	0	0	0	0	0	0	0	0	170-175	0	207.3
180.0	0	0	0	0	0	0	0	0	175-180	0	207.3
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

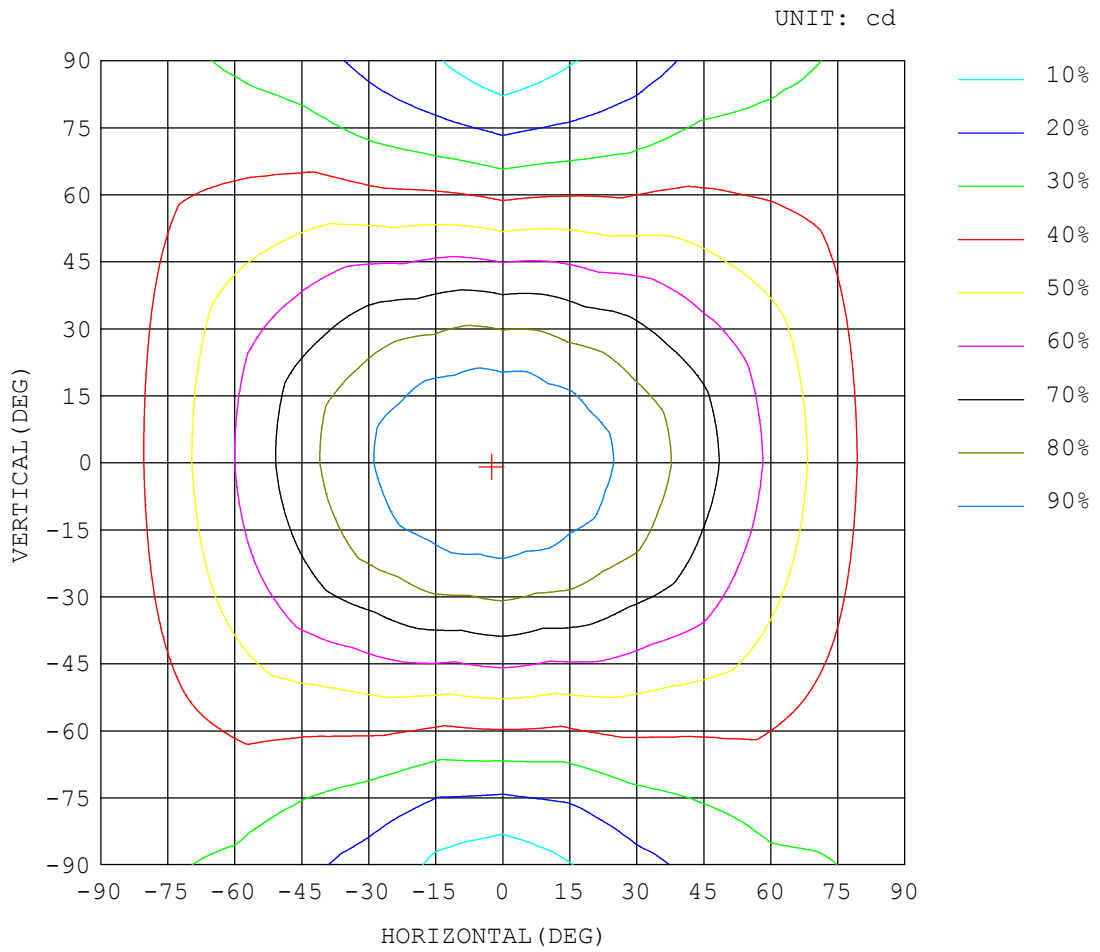
Test System:LSG-1600  
Temperature:25.3DEG  
Operators:REGAIP DASTAN  
Test Date:03-03-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:9.545 m  
Remarks: LLB33 T30 CW 120D 2.4W 220V AC IP44

## ISOCANDELA DIAGRAM

Report number: 2016000063

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLB33 T30 CW 120D 2.4W 220V AC IP44	TYPE: LED LINE	WEIGHT:
SPECIFICATION: LED LINE BOLD 33	DIMENSION: 1010x45x33	SERIAL No.:



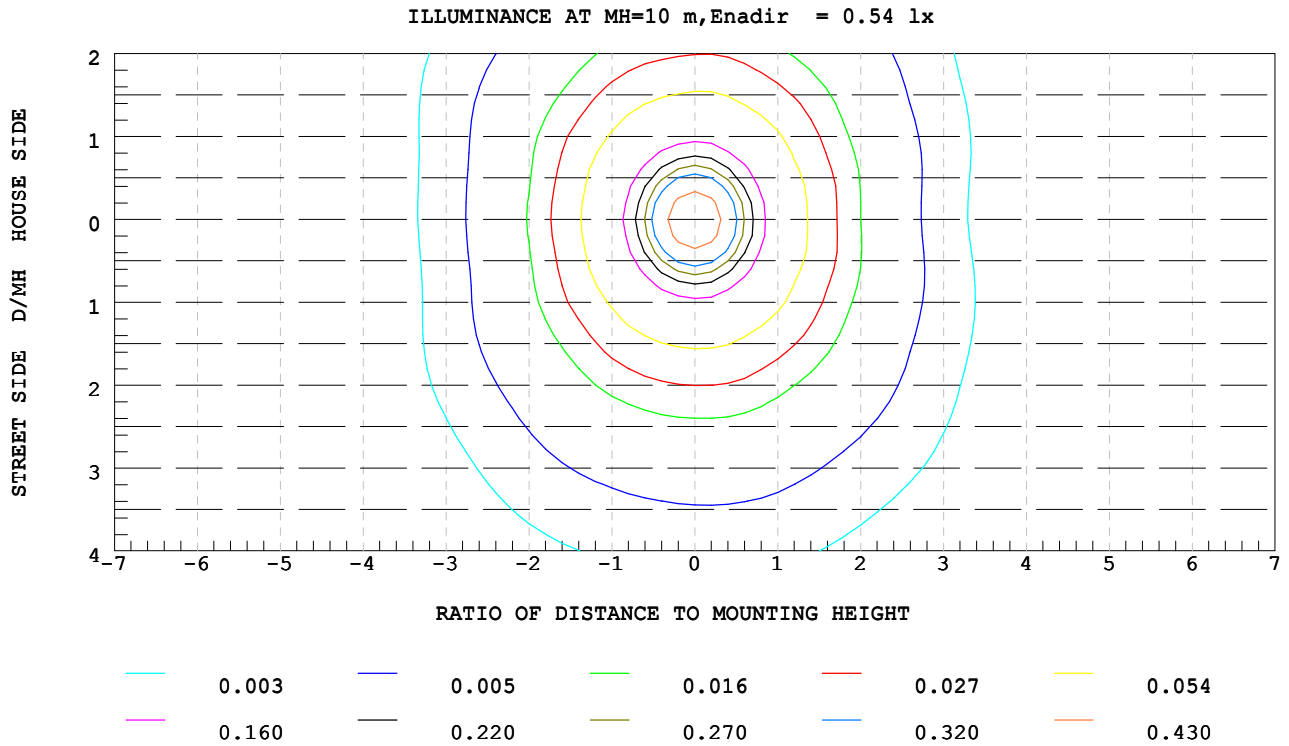
Test System: LSG-1600  
Temperature: 25.3 DEG  
Operators: REGAIP DASTAN  
Test Date: 03-03-2016

Test Set: 2.0 deg/s C-Gamma (TYPE C)  
Humidity: 65.0%  
Test Distance: 9.545 m  
Remarks: LLB33 T30 CW 120D 2.4W 220V AC IP44

## ISOLUX DIAGRAM

Report number: 2016000063

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLB33 T30 CW 120D 2.4W 220V AC IP44	TYPE: LED LINE	WEIGHT:
SPECIFICATION: LED LINE BOLD 33	DIMENSION: 1010x45x33	SERIAL No.:



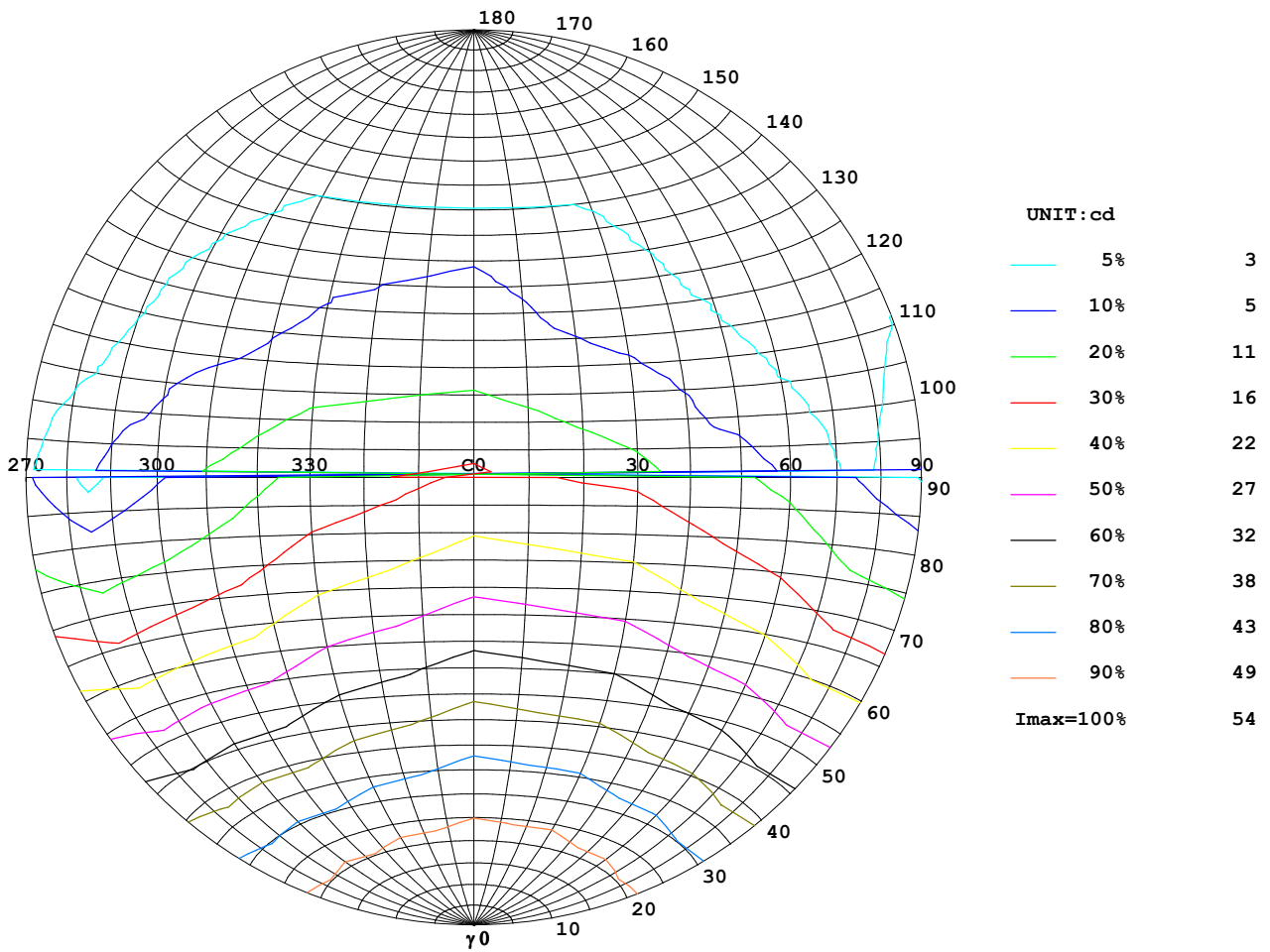
Test System: LSG-1600  
 Temperature: 25.3 DEG  
 Operators: REGAIP DASTAN  
 Test Date: 03-03-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)  
 Humidity: 65.0%  
 Test Distance: 9.545 m  
 Remarks: LLB33 T30 CW 120D 2.4W 220V AC IP44

ISOCANDELA DIAGRAM

Report number: 2016000063

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLB33 T30 CW 120D 2.4W 220V AC IP44	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE BOLD 33	DIMENSION: 1010x45x33	SERIAL No.:



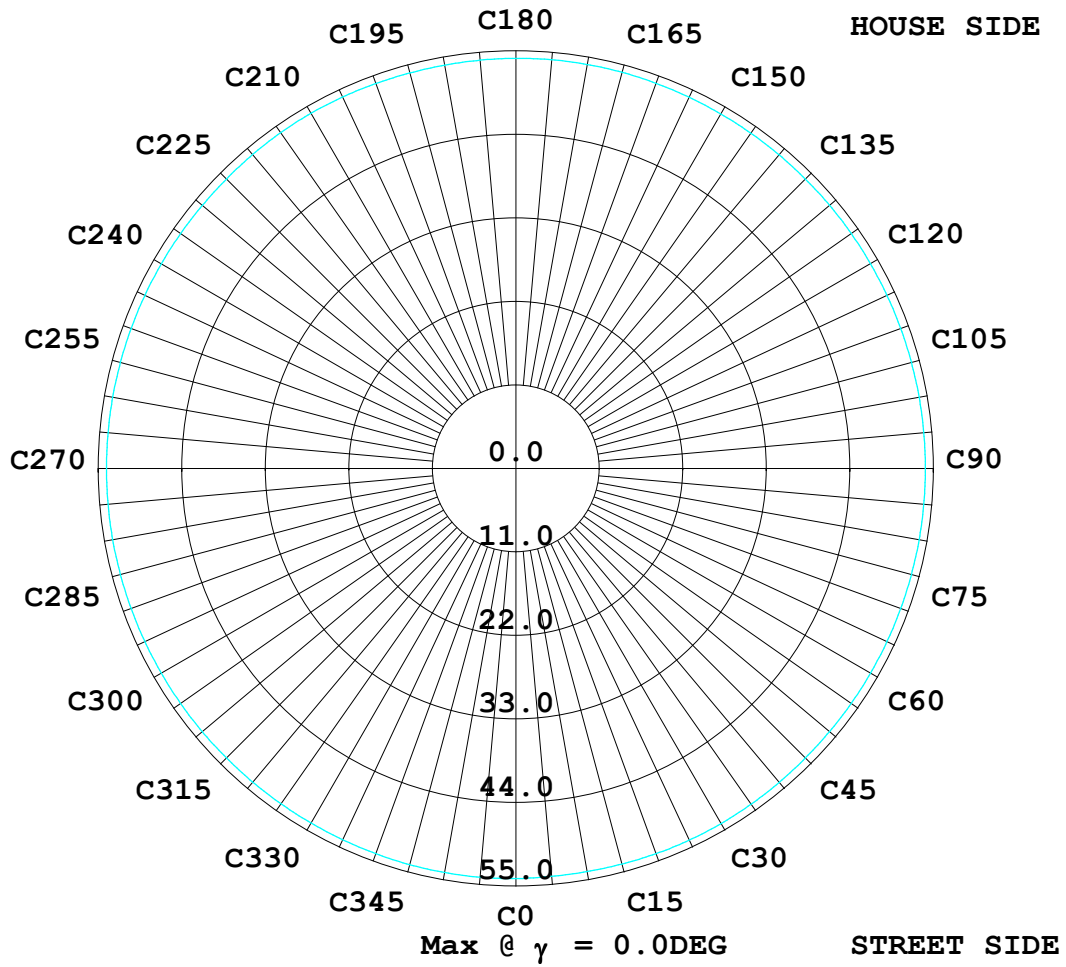
Test System:LSG-1600  
Temperature:25.3DEG  
Operators:REGAIP DASTAN  
Test Date:03-03-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:9.545 m  
Remarks: LLB33 T30 CW 120D 2.4W 220V AC IP44

## ISOCANDELA DIAGRAM

Report number: 2016000063

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLB33 T30 CW 120D 2.4W 220V AC IP44	TYPE: LED LINE	WEIGHT:
SPECIFICATION: LED LINE BOLD 33	DIMENSION: 1010x45x33	SERIAL No.:



Test System: LSG-1600  
 Temperature: 25.3 DEG  
 Operators: REGAIP DASTAN  
 Test Date: 03-03-2016

Test Set: 2.0 deg/s C-Gamma (TYPE C)  
 Humidity: 65.0%  
 Test Distance: 9.545 m  
 Remarks: LLB33 T30 CW 120D 2.4W 220V AC IP44

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 2016000063

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLB33 T30 CW 120D 2.4W 220V AC IP44	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE BOLD 33	DIMENSION: 1010x45x33	SERIAL No.:

UNIT: cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210
0.0	54.0	53.9	54.0	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	54.0	54.0	53.9	54.0
5.0	53.5	53.4	53.5	53.5	53.6	53.5	53.7	53.6	53.8	53.8	53.9	53.9	53.9	53.9	53.8
10.0	52.7	52.5	52.8	52.5	52.7	52.5	52.8	52.7	53.1	53.1	53.4	53.3	53.4	53.5	53.2
15.0	51.6	51.3	51.5	51.1	51.3	50.9	51.3	51.2	51.9	51.9	52.4	52.4	52.6	52.7	52.2
20.0	50.2	49.8	50.0	49.2	49.3	48.8	49.2	49.1	50.0	50.1	51.2	51.2	51.4	51.6	50.9
25.0	48.5	48.1	48.1	47.1	47.0	46.1	46.8	46.5	47.7	48.0	49.2	49.5	49.9	50.1	49.1
30.0	46.6	46.1	46.0	44.6	44.3	43.2	43.8	43.5	45.0	45.5	47.1	47.6	48.1	48.2	47.1
35.0	44.5	43.8	43.5	41.9	41.3	39.9	40.5	40.2	41.9	42.7	44.7	45.3	46.0	46.1	44.7
40.0	42.1	41.2	40.9	38.9	38.0	36.4	36.8	36.6	38.6	39.6	42.0	42.9	43.6	43.8	42.0
45.0	39.6	38.7	38.1	35.8	34.8	32.7	33.1	32.8	35.1	36.5	39.2	40.1	41.0	41.2	39.2
50.0	36.9	35.9	35.3	32.7	31.4	28.9	29.2	29.0	31.6	33.2	36.2	37.2	38.3	38.5	36.3
55.0	34.2	33.1	32.4	29.7	27.9	25.2	25.3	25.1	27.9	29.9	33.1	34.3	35.3	35.6	33.3
60.0	31.4	30.3	29.6	26.6	24.6	21.5	21.4	21.4	24.5	26.8	30.2	31.4	32.4	32.6	30.3
65.0	28.6	27.6	26.7	23.7	21.5	18.0	17.4	17.6	21.2	23.7	27.2	28.5	29.5	29.7	27.4
70.0	26.1	25.0	24.1	20.9	18.4	14.6	13.6	14.2	18.1	20.8	24.4	25.7	26.7	26.9	24.6
75.0	23.6	22.5	21.6	18.4	15.7	11.6	10.2	11.0	15.3	18.3	21.9	23.3	24.2	24.4	22.1
80.0	21.3	20.3	19.4	16.2	13.3	9.01	7.10	8.29	12.7	15.9	19.5	20.8	21.7	21.9	19.7
85.0	19.2	18.1	17.2	14.0	11.2	6.83	4.46	6.10	10.6	13.9	17.4	18.6	19.5	19.6	17.5
90.0	17.1	16.2	15.2	12.2	9.47	5.19	2.55	4.55	8.92	12.0	15.3	16.6	17.4	17.5	15.4
95.0	15.2	14.3	13.3	10.4	7.92	4.09	2.18	3.55	7.37	10.2	13.4	14.7	15.5	15.5	13.5
100.0	13.4	12.5	11.6	8.92	5.83	3.18	2.18	2.91	5.55	8.65	11.8	13.0	13.7	13.7	11.8
105.0	11.3	10.3	8.10	6.92	5.10	2.73	2.09	2.55	4.82	6.83	8.83	10.7	11.6	11.5	9.11
110.0	9.20	7.83	7.10	5.46	4.00	2.45	2.09	2.27	3.91	5.64	7.28	8.01	9.47	8.65	7.19
115.0	8.01	7.01	6.19	4.73	3.46	2.18	2.09	2.00	3.46	4.64	6.46	7.19	8.29	7.83	6.28
120.0	7.01	6.28	5.55	4.09	3.18	2.09	2.09	2.00	3.18	4.09	5.64	6.46	7.28	7.01	5.64
125.0	6.10	5.55	5.01	3.73	2.91	2.00	2.09	2.00	2.82	3.73	5.10	5.73	6.37	6.19	5.10
130.0	5.19	4.82	4.28	3.37	2.64	2.00	2.09	2.00	2.55	3.37	4.46	5.01	5.46	5.37	4.55
135.0	4.46	4.19	3.73	2.91	2.36	2.00	2.09	2.00	2.36	3.00	3.91	4.37	4.73	4.55	3.82
140.0	3.73	3.55	3.18	2.55	2.09	2.09	2.00	2.00	2.18	2.64	3.37	3.64	4.00	3.82	3.46
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Test System:LSG-1600  
Temperature:25.3DEG  
Operators:REGAIP DASTAN  
Test Date:03-03-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:9.545 m  
Remarks: LLB33 T30 CW 120D 2.4W 220V AC IP44

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 2016000063

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLB33 T30 CW 120D 2.4W 220V AC IP44	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE BOLD 33	DIMENSION: 1010x45x33	SERIAL No.:

UNIT: cd

C (DEG) γ (DEG)	225	240	255	270	285	300	315	330	345
0.0	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	54.0
5.0	53.8	53.7	53.6	53.5	53.6	53.4	53.5	53.4	53.6
10.0	53.2	52.8	52.9	52.5	52.6	52.3	52.6	52.5	52.8
15.0	52.1	51.4	51.4	50.9	51.1	50.8	51.2	51.2	51.7
20.0	50.6	49.6	49.4	48.7	49.1	48.7	49.4	49.5	50.2
25.0	48.6	47.2	47.1	46.0	46.4	46.1	47.2	47.5	48.5
30.0	46.3	44.5	44.1	43.0	43.5	43.4	44.8	45.2	46.5
35.0	43.7	41.5	40.9	39.6	40.3	40.2	42.0	42.8	44.3
40.0	40.9	38.2	37.5	36.0	36.8	36.9	39.1	40.1	42.0
45.0	37.8	34.8	33.8	32.2	33.1	33.6	36.1	37.4	39.4
50.0	34.8	31.5	30.2	28.4	29.4	30.1	33.0	34.5	36.7
55.0	31.6	28.0	26.4	24.5	25.6	26.7	29.9	31.7	33.8
60.0	28.4	24.6	22.6	20.5	21.9	23.4	26.9	28.7	31.1
65.0	25.4	21.5	19.0	16.7	18.4	20.2	24.0	25.9	28.3
70.0	22.5	18.4	15.6	13.0	14.9	17.3	21.2	23.3	25.7
75.0	19.8	15.6	12.4	9.56	11.7	14.5	18.6	20.9	23.3
80.0	17.5	13.2	9.74	6.46	9.01	12.1	16.3	18.5	20.9
85.0	15.3	11.1	7.47	3.91	6.74	10.1	14.3	16.4	18.7
90.0	13.3	9.29	5.83	2.00	5.01	8.38	12.3	14.4	16.7
95.0	11.5	7.74	4.55	1.82	3.91	6.83	10.6	12.6	14.8
100.0	9.93	5.64	3.64	1.91	3.09	5.01	8.92	11.0	13.0
105.0	7.74	5.10	3.18	1.91	2.82	4.37	7.01	8.01	10.7
110.0	6.28	4.09	2.73	1.91	2.45	3.46	5.73	6.65	8.10
115.0	5.28	3.46	2.45	1.91	2.18	3.18	4.73	5.83	7.19
120.0	4.64	3.09	2.27	2.00	2.18	2.82	4.19	5.10	6.46
125.0	4.19	2.82	2.09	1.91	2.09	2.55	3.73	4.55	5.64
130.0	3.73	2.64	2.09	2.00	2.09	2.27	3.37	4.00	4.91
135.0	3.27	2.36	2.09	2.00	2.09	2.09	2.91	3.55	4.19
140.0	2.82	2.18	2.09	2.09	2.09	2.09	2.55	3.09	3.55
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Test System:LSG-1600  
 Temperature:25.3DEG  
 Operators:REGAIP DASTAN  
 Test Date:03-03-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:9.545 m  
 Remarks: LLB33 T30 CW 120D 2.4W 220V AC IP44