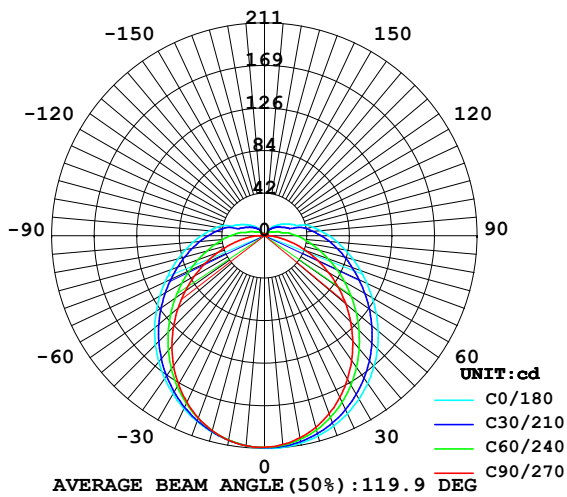
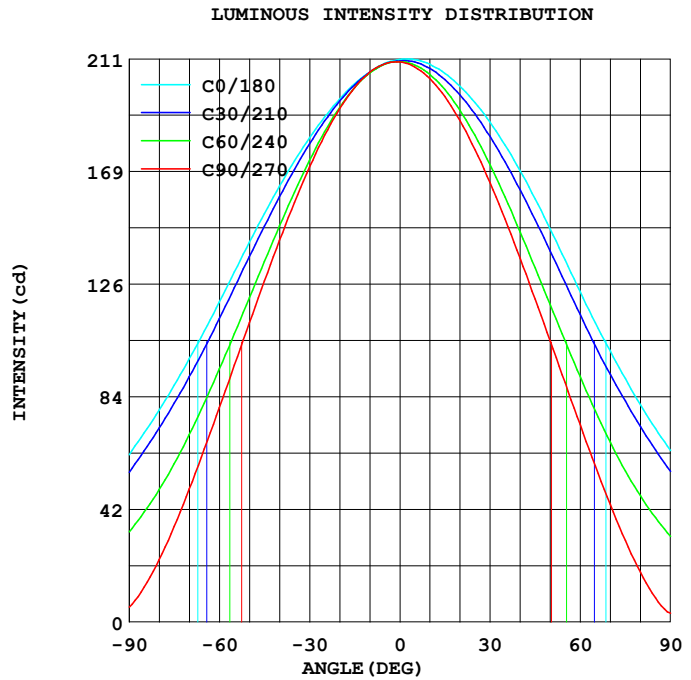


## STREETLIGHT PHOTOMETRIC TEST REPORT

Report number: 20160000071

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLB33 PT30 CW 120D 12W 220V AC IP44D	TYPE: LED LINE BOLD	WEIGHT: ---
SPECIFICATION: LED LINE BOLD 33	DIMENSION: 1010x45x33mm	SERIAL No.: ---

TEST DATA:					
MODEL:	LLB33	Imax (cd) :	210.6	$\eta$ street_up (%) :	5.6
NOMINAL POWER (W) :	12	MAXIMUM (C, $\gamma$ :	180, 2.0	$\eta$ street_down (%) :	46.7
RATED VOLTAGE (V) :	220	TOTAL FLUX (lm) :	762.6	$\eta$ house_up (%) :	5.7
NOMINAL FLUX (lm) :	762.6	EFFICIENCY (%) :	100.0	$\eta$ house_down (%) :	41.9
TEST FLUX (lm) :	762.6	$\eta$ up (%) :	11.4		
LAMPS QUANTITY:	1	$\eta$ down (%) :	88.6		

INTENSITY DISTRIBUTION DIAGRAM  
IN C PLANSINTENSITY DISTRIBUTION DIAGRAM  
IN C PLANS

Test: U:220.8V I:0.157A P:12.00W PF:0.542

Test System: LSG-1600  
 Temperature: 25.5 DEG  
 Operators: REGAIP DASTAN  
 Test Date: 03-09-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)  
 Humidity: 52.0%  
 Test Distance: 9.545 m  
 Remarks: LLB33 PT30 CW 120D 12W 220V IP44D

# ZONAL FLUX DIAGRAM

Report number: 20160000071

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLB33 PT30 CW 120D 12W 220V AC IP44D	TYPE:LED LINE BOLD	WEIGHT:---
SPECIFICATION:LED LINE BOLD 33	DIMENSION: 1010x45X33mm	SERIAL No.:---

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total
5.0	208.9	208.3	208.8	209.0	210.3	209.1	207.5	207.7	0- 5	4.997	4.997
10.0	205.7	204.8	205.6	206.5	208.6	206.4	203.2	203.8	5- 10	14.79	19.79
15.0	201.3	199.6	199.9	201.8	205.1	201.8	196.5	198.0	10- 15	24.01	43.80
20.0	195.6	192.6	191.9	194.9	200.4	195.3	187.5	190.5	15- 20	32.35	76.15
25.0	188.9	184.1	182.0	186.5	194.3	187.3	176.7	181.5	20- 25	39.52	115.6
30.0	181.1	174.3	170.1	176.5	186.9	177.8	164.3	171.2	25- 30	45.33	161.0
35.0	172.4	163.5	156.9	165.2	178.3	167.2	150.6	160.1	30- 35	49.65	210.6
40.0	162.9	152.0	142.7	153.0	168.8	155.8	136.1	148.3	35- 40	52.40	263.0
45.0	152.7	139.9	127.5	140.1	158.2	143.7	120.8	136.0	40- 45	53.60	316.6
50.0	142.0	127.5	111.8	126.9	146.9	131.3	105.1	123.5	45- 50	53.31	370.0
55.0	130.9	115.1	96.11	113.7	135.3	118.8	89.46	111.1	50- 55	51.70	421.7
60.0	119.7	103.0	80.17	100.8	123.5	106.4	73.79	99.03	55- 60	48.93	470.6
65.0	108.7	91.38	64.68	88.55	111.8	94.47	58.39	87.37	60- 65	45.28	515.9
70.0	98.48	80.35	49.74	77.07	101.3	83.27	43.91	76.43	65- 70	41.04	556.9
75.0	88.55	70.15	35.80	66.69	91.01	73.15	30.42	66.32	70- 75	36.49	593.4
80.0	79.26	60.95	23.32	57.30	81.26	63.77	18.58	57.12	75- 80	31.86	625.3
85.0	70.69	52.65	13.02	49.01	72.43	55.30	9.019	49.01	80- 85	27.41	652.7
90.0	62.59	45.00	5.557	41.54	64.13	47.64	3.279	41.54	85- 90	23.30	676.0
95.0	54.93	38.08	3.462	34.80	56.21	40.45	2.277	34.98	90- 95	19.67	695.7
100.0	47.92	31.88	3.097	28.69	49.10	34.16	2.368	27.33	95-100	16.35	712.0
105.0	39.54	23.32	3.006	21.04	41.45	25.60	2.368	21.41	100-105	13.03	725.1
110.0	30.88	17.58	3.006	17.03	31.88	18.95	2.459	16.21	105-110	9.381	734.4
115.0	26.32	14.03	3.006	12.48	27.42	15.85	2.550	12.29	110-115	7.497	741.9
120.0	22.23	11.66	2.915	10.47	23.32	13.21	2.642	10.56	115-120	6.136	748.1
125.0	18.49	9.930	2.915	9.201	19.58	11.29	2.733	8.928	120-125	5.019	753.1
130.0	15.30	8.381	3.006	7.744	16.30	9.566	2.733	7.470	125-130	4.013	757.1
135.0	12.39	6.741	3.006	6.195	13.39	7.835	2.733	6.013	130-135	3.121	760.2
140.0	9.566	5.375	2.915	4.919	10.65	6.195	2.824	4.646	135-140	2.345	762.6
145.0	0	0	0	0	0	0	0	0	140-145	0	762.6
150.0	0	0	0	0	0	0	0	0	145-150	0	762.6
155.0	0	0	0	0	0	0	0	0	150-155	0	762.6
160.0	0	0	0	0	0	0	0	0	155-160	0	762.6
165.0	0	0	0	0	0	0	0	0	160-165	0	762.6
170.0	0	0	0	0	0	0	0	0	165-170	0	762.6
175.0	0	0	0	0	0	0	0	0	170-175	0	762.6
180.0	0	0	0	0	0	0	0	0	175-180	0	762.6
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

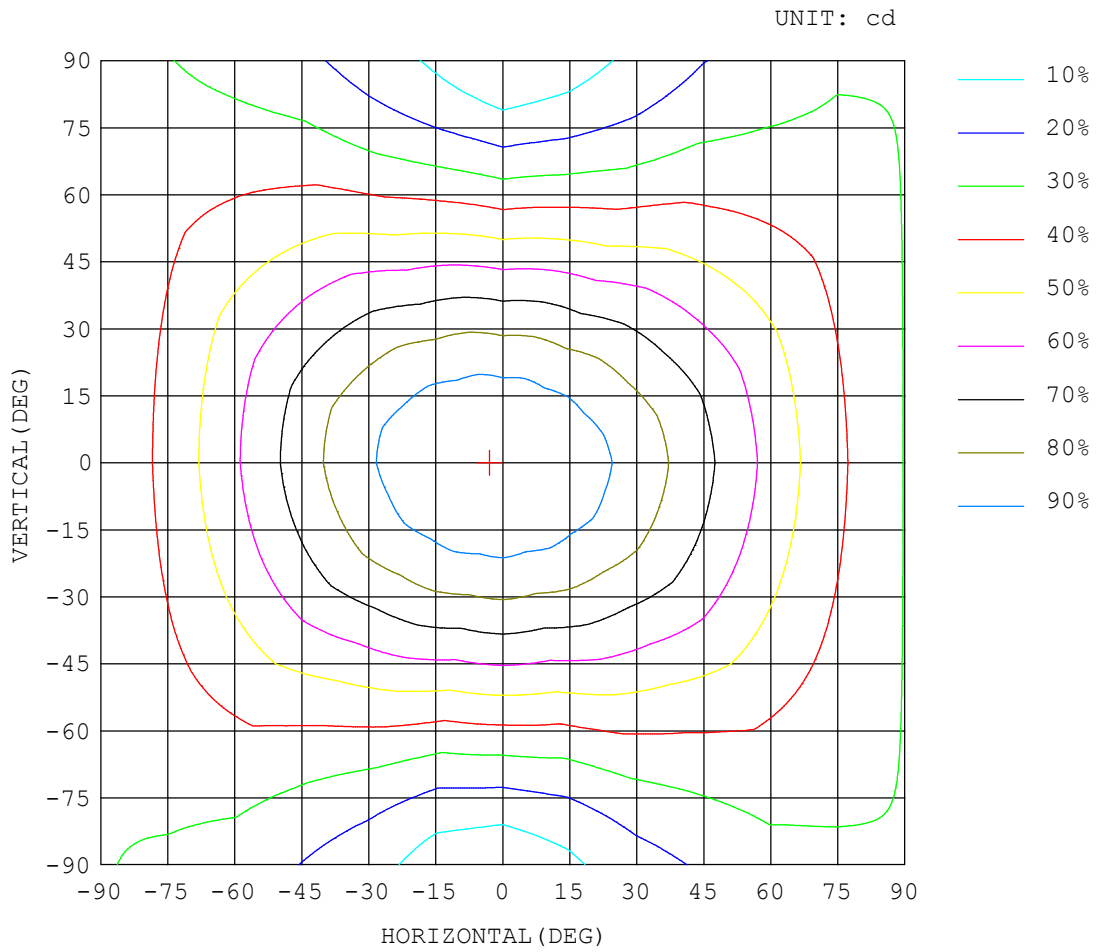
Test System:LSG-1600  
Temperature:25.5DEG  
Operators:REGAIP DASTAN  
Test Date:03-09-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)  
Humidity:52.0%  
Test Distance:9.545 m  
Remarks: LLB33 PT30 CW 120D 12W 220V IP44D

## ISOCANDELA DIAGRAM

Report number: 20160000071

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLB33 PT30 CW 120D 12W 220V AC IP44D	TYPE:LED LINE BOLD	WEIGHT:---
SPECIFICATION:LED LINE BOLD 33	DIMENSION: 1010x45X33mm	SERIAL No.:---



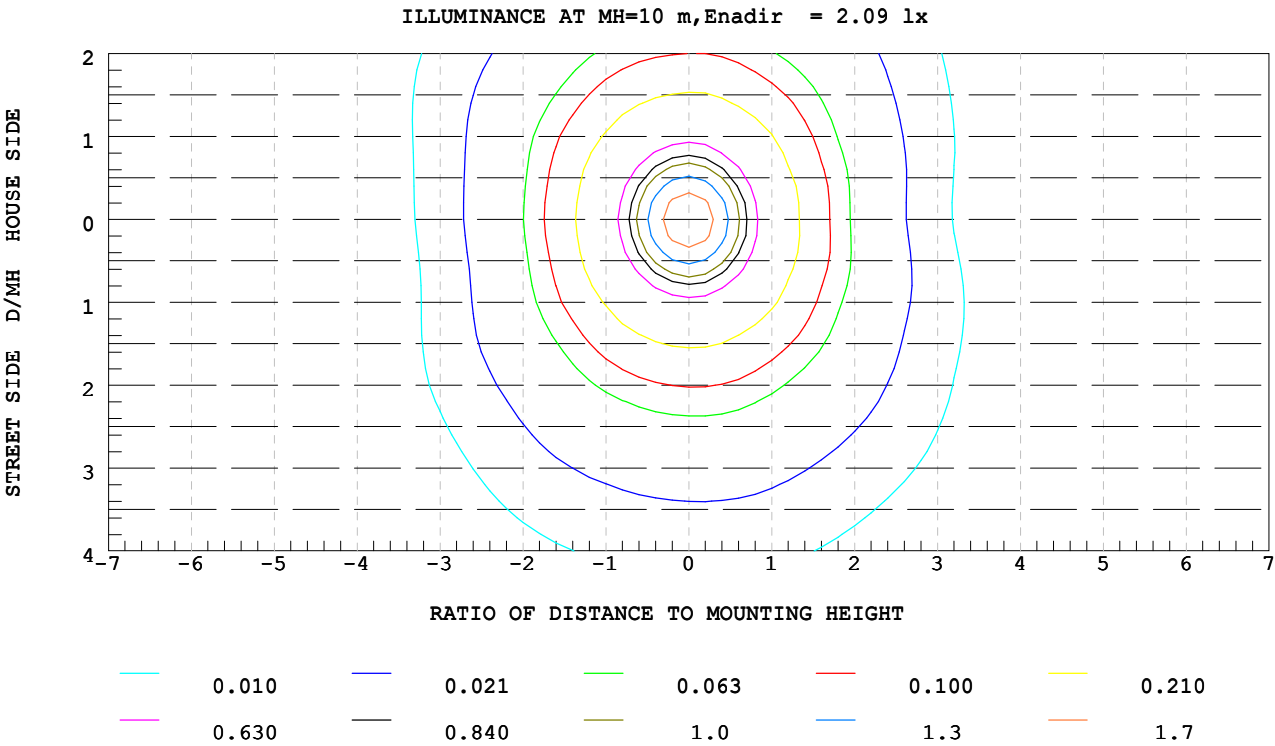
Test System:LSG-1600  
Temperature:25.5DEG  
Operators:REGAIP DASTAN  
Test Date:03-09-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)  
Humidity:52.0%  
Test Distance:9.545 m  
Remarks: LLB33 PT30 CW 120D 12W 220V IP44D

ISOLUX DIAGRAM

Report number: 20160000071

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLB33 PT30 CW 120D 12W 220V AC IP44D	TYPE:LED LINE BOLD	WEIGHT:---
SPECIFICATION:LED LINE BOLD 33	DIMENSION: 1010x45X33mm	SERIAL No.:---



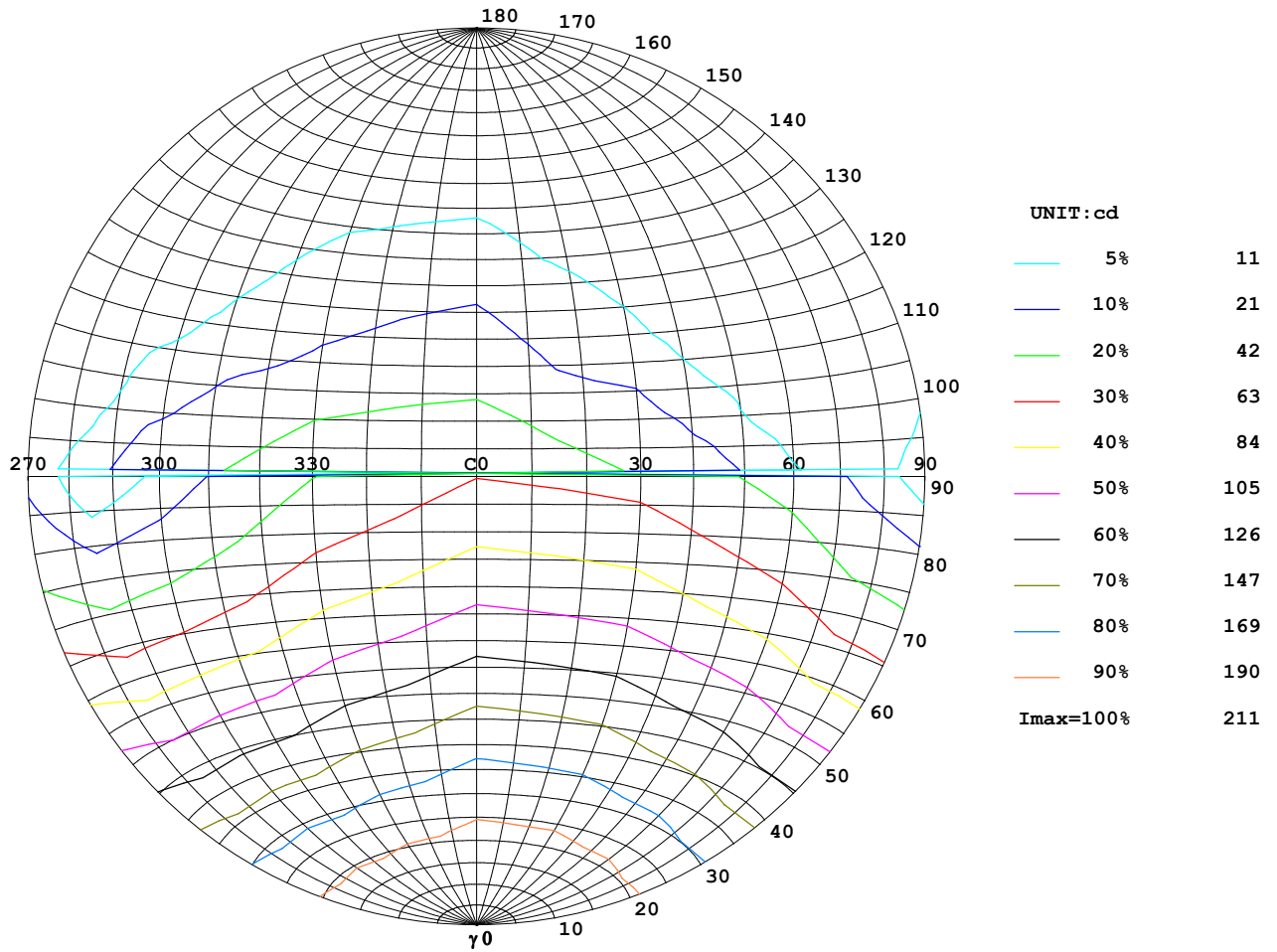
Test System:LSG-1600  
Temperature:25.5DEG  
Operators:REGAIP DASTAN  
Test Date:03-09-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)  
Humidity:52.0%  
Test Distance:9.545 m  
Remarks: LLB33 PT30 CW 120D 12W 220V IP44D

## ISOCANDELA DIAGRAM

Report number: 20160000071

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLB33 PT30 CW 120D 12W 220V AC IP44D	TYPE: LED LINE BOLD	WEIGHT: ---
SPECIFICATION: LED LINE BOLD 33	DIMENSION: 1010x45x33mm	SERIAL No.: ---



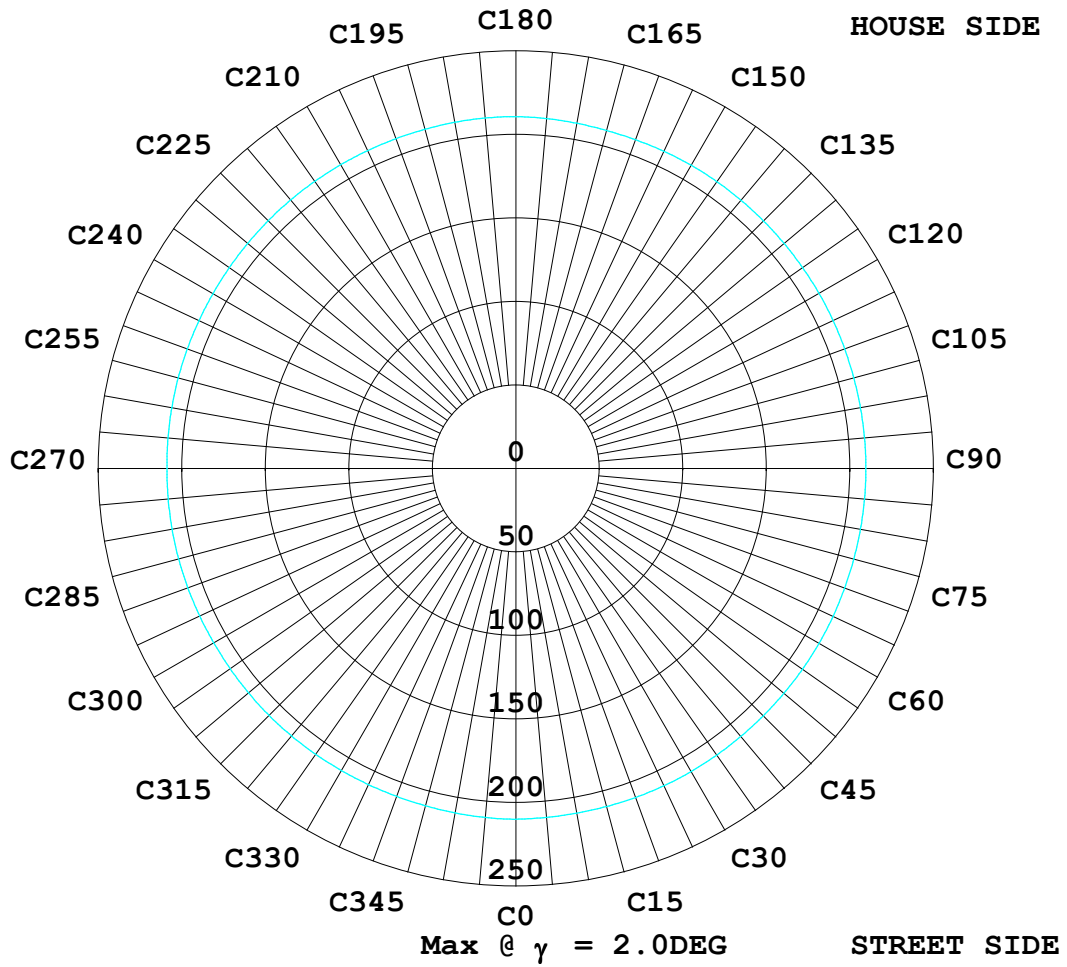
Test System: LSG-1600  
Temperature: 25.5 DEG  
Operators: REGAIP DASTAN  
Test Date: 03-09-2016

Test Set: 2.0 deg/s C-Gamma (TYPE C)  
Humidity: 52.0%  
Test Distance: 9.545 m  
Remarks: LLB33 PT30 CW 120D 12W 220V IP44D

## ISOCANDELA DIAGRAM

Report number: 20160000071

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLB33 PT30 CW 120D 12W 220V AC IP44D	TYPE: LED LINE BOLD	WEIGHT: ---
SPECIFICATION: LED LINE BOLD 33	DIMENSION: 1010x45x33mm	SERIAL No.: ---



Test System: LSG-1600  
 Temperature: 25.5DEG  
 Operators: REGAIP DASTAN  
 Test Date: 03-09-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)  
 Humidity: 52.0%  
 Test Distance: 9.545 m  
 Remarks: LLB33 PT30 CW 120D 12W 220V IP44D

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 20160000071

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLB33 PT30 CW 120D 12W 220V AC IP44D	TYPE:LED LINE BOLD	WEIGHT:---
SPECIFICATION:LED LINE BOLD 33	DIMENSION: 1010x45X33mm	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	210	210	210	210	210	210	209	210	209	210	209	209	210	210	210
5.0	209	208	209	208	209	208	209	209	209	209	209	209	210	210	209
10.0	206	205	206	205	205	205	206	205	206	207	207	207	209	208	207
15.0	201	201	201	200	200	199	200	200	202	202	204	204	205	205	203
20.0	196	195	195	193	192	191	192	191	194	195	198	198	200	200	197
25.0	189	188	187	184	183	181	182	181	185	187	191	192	194	194	190
30.0	181	180	179	174	173	169	170	170	174	177	182	184	187	186	182
35.0	172	171	169	164	161	156	157	156	162	165	172	175	178	178	172
40.0	163	161	159	152	148	142	143	142	149	153	162	165	169	168	162
45.0	153	150	148	140	135	127	128	127	134	140	150	154	158	158	151
50.0	142	139	137	128	121	112	112	111	120	127	138	142	147	147	139
55.0	131	128	125	115	108	97.1	96.1	95.5	106	114	126	131	135	135	127
60.0	120	117	114	103	94.6	82.3	80.1	79.9	91.4	101	114	119	124	123	115
65.0	109	106	102	91.3	81.9	68.2	64.6	64.9	78.0	88.5	102	107	112	112	103
70.0	98.4	95.3	91.7	80.3	70.1	55.0	49.7	50.9	65.5	77.0	90.7	96.8	101	101	92.6
75.0	88.5	85.5	81.8	70.1	59.2	43.0	35.8	38.0	54.0	66.6	80.7	86.7	91.0	90.9	82.6
80.0	79.2	76.2	72.5	60.9	49.4	32.4	23.3	26.8	44.0	57.3	71.1	77.1	81.2	81.1	73.0
85.0	70.6	67.7	64.0	52.6	41.0	23.9	13.0	18.0	35.7	49.0	62.5	68.4	72.4	72.2	64.3
90.0	62.5	59.6	56.0	45.0	33.7	17.3	5.55	11.8	28.6	41.5	54.6	60.3	64.1	63.9	56.3
95.0	54.9	52.1	48.5	38.0	27.3	12.3	3.46	7.92	22.6	34.8	47.1	52.5	56.2	56.0	48.7
100.0	47.9	45.1	41.8	31.8	19.1	8.65	3.09	5.55	15.3	28.6	40.6	45.7	49.1	48.9	42.0
105.0	39.5	36.7	27.6	23.3	15.8	6.55	3.00	4.28	13.0	21.0	30.3	37.6	41.4	40.8	30.2
110.0	30.8	26.4	23.2	17.5	12.2	5.28	3.00	3.37	9.65	17.0	22.8	25.9	31.8	28.8	23.4
115.0	26.3	23.3	19.7	14.0	9.01	4.00	3.00	2.82	8.01	12.4	19.4	22.6	27.4	25.7	19.9
120.0	22.2	20.0	17.1	11.6	7.83	3.27	2.91	2.55	6.74	10.4	16.4	19.9	23.3	22.4	17.4
125.0	18.4	16.8	14.6	9.93	6.55	2.82	2.91	2.64	5.55	9.20	14.2	17.1	19.5	18.9	14.9
130.0	15.3	13.9	12.2	8.38	5.37	2.82	3.00	2.73	4.55	7.74	12.0	14.3	16.3	15.8	12.6
135.0	12.3	11.2	9.93	6.74	4.28	2.82	3.00	2.82	3.73	6.19	9.83	11.8	13.3	13.0	10.3
140.0	9.56	8.83	7.65	5.37	3.37	3.00	2.91	2.82	3.18	4.91	7.74	9.38	10.6	10.2	8.29
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:25.5DEG  
Operators:REGAIP DASTAN  
Test Date:03-09-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)  
Humidity:52.0%  
Test Distance:9.545 m  
Remarks: LLB33 PT30 CW 120D 12W 220V IP44D

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 20160000071

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLB33 PT30 CW 120D 12W 220V AC IP44D	TYPE:LED LINE BOLD	WEIGHT:---
SPECIFICATION:LED LINE BOLD 33	DIMENSION: 1010x45X33mm	SERIAL No.:---

UNIT: cd

C (DEG) γ (DEG)	225	240	255	270	285	300	315	330	345
0.0	210	210	210	209	210	209	210	209	209
5.0	209	208	208	208	208	207	208	208	208
10.0	206	205	205	203	204	203	204	204	205
15.0	202	199	199	197	197	196	198	198	200
20.0	195	191	190	188	189	188	191	191	194
25.0	187	182	180	177	178	178	182	183	187
30.0	178	171	169	164	166	166	171	174	179
35.0	167	159	156	151	153	153	160	164	170
40.0	156	146	142	136	138	140	148	153	161
45.0	144	132	127	121	124	126	136	142	150
50.0	131	119	112	105	109	112	124	131	139
55.0	119	105	97.2	89.4	93.3	98.4	111	119	128
60.0	106	91.7	82.3	73.7	78.2	85.0	99.0	108	117
65.0	94.4	78.9	68.1	58.3	63.7	72.3	87.3	96.4	106
70.0	83.2	67.2	54.9	43.9	50.1	60.6	76.4	86.0	95.6
75.0	73.1	56.4	42.8	30.4	37.6	49.8	66.3	76.2	85.9
80.0	63.7	47.1	32.3	18.5	26.8	40.3	57.1	67.1	76.7
85.0	55.3	39.0	24.1	9.01	18.4	32.4	49.0	58.9	68.1
90.0	47.6	32.0	17.7	3.27	12.3	25.7	41.5	51.1	60.0
95.0	40.4	25.9	12.5	2.27	8.56	20.2	34.9	43.9	52.4
100.0	34.1	17.8	9.11	2.36	5.92	13.4	27.3	37.5	45.5
105.0	25.6	15.3	7.28	2.36	4.64	11.0	21.4	25.3	36.7
110.0	18.9	11.2	5.92	2.45	3.73	7.83	16.2	20.5	25.9
115.0	15.8	8.56	4.64	2.55	3.18	6.37	12.2	17.2	22.7
120.0	13.2	7.65	3.82	2.64	3.00	5.46	10.5	14.7	19.7
125.0	11.2	6.46	3.27	2.73	3.00	4.55	8.92	12.6	16.6
130.0	9.56	5.37	3.00	2.73	3.00	3.73	7.47	10.2	13.9
135.0	7.83	4.37	3.09	2.73	3.00	3.09	6.01	8.38	11.2
140.0	6.19	3.55	3.09	2.82	3.00	2.82	4.64	6.55	8.74
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:25.5DEG  
 Operators:REGAIP DASTAN  
 Test Date:03-09-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)  
 Humidity:52.0%  
 Test Distance:9.545 m  
 Remarks: LLB33 PT30 CW 120D 12W 220V IP44D