

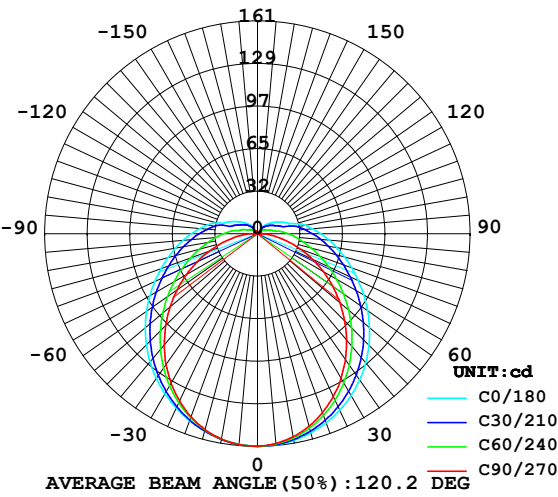
STREETLIGHT PHOTOMETRIC TEST REPORT

Report number: 2016000065

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLB33 T90 CW 120D 7.2W 220V AC IP44	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE BOLD 33	DIMENSION: 1010x45x33	SERIAL No.:

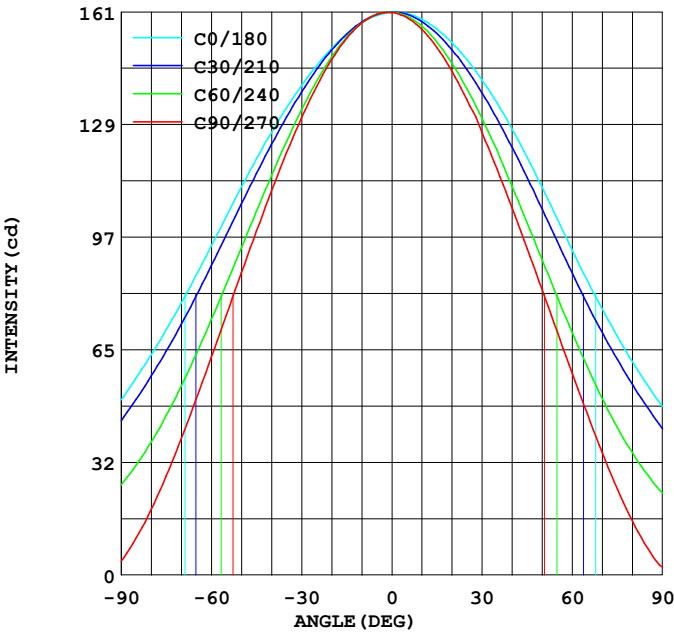
TEST DATA:					
MODEL:	LLB33	Imax (cd) :	161.4	η street_up (%) :	6.0
NOMINAL POWER (W) :	7.2	MAXIMUM (C, γ :	30,0.0	η street_down (%) :	47.1
RATED VOLTAGE (V) :	220	TOTAL FLUX (lm) :	592.5	η house_up (%) :	5.7
NOMINAL FLUX (lm) :	592.6	EFFICIENCY (%) :	100.0	η house_down (%) :	41.2
TEST FLUX (lm:	592.5	η up (%) :	11.7		
LAMPS QUANTITY:	1	η down (%) :	88.3		

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANS



INTENSITY DISTRIBUTION DIAGRAM
IN C PLANS

LUMINOUS INTENSITY DISTRIBUTION



Test:U:220.8V I:0.127A P:7.200W PF:0.519

Test System:LSG-1600
Temperature:23.3DEG
Operators:REGAIP DASTAN
Test Date:03-05-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
Humidity:54.0%
Test Distance:9.545 m
Remarks: LLB33 T90 CW 120D 7.2W 220V AC IP44

ZONAL FLUX DIAGRAM

Report number: 2016000065

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLB33 T90 CW 120D 7.2W 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	160.3	160.4	160.7	160.7	160.8	160.7	159.8	160.1	0- 5	3.843	3.843
10.0	158.2	157.8	158.2	158.5	159.2	158.5	156.4	157.4	5- 10	11.37	15.22
15.0	155.0	153.9	153.8	154.6	156.5	154.6	151.2	153.2	10- 15	18.47	33.69
20.0	150.9	148.5	147.7	149.5	152.6	149.5	144.4	147.6	15- 20	24.88	58.58
25.0	145.9	142.1	140.0	142.9	147.7	143.2	136.2	141.0	20- 25	30.41	88.99
30.0	140.3	134.7	131.1	135.3	141.9	135.8	126.9	133.4	25- 30	34.90	123.9
35.0	133.9	126.4	121.0	126.6	135.3	127.6	116.4	125.1	30- 35	38.24	162.1
40.0	126.8	117.5	110.0	117.3	127.8	118.7	105.2	116.2	35- 40	40.39	202.5
45.0	119.3	108.3	98.57	107.5	119.7	109.3	93.56	107.0	40- 45	41.36	243.9
50.0	111.2	98.76	86.64	97.57	111.1	99.67	81.81	97.84	45- 50	41.19	285.0
55.0	102.8	89.19	74.52	87.64	102.1	90.01	69.78	88.46	50- 55	40.00	325.1
60.0	94.38	79.90	62.49	77.89	93.11	80.44	57.76	79.17	55- 60	37.93	363.0
65.0	86.00	70.88	50.56	68.60	84.45	71.33	46.28	70.42	60- 65	35.18	398.2
70.0	77.98	62.31	39.08	59.85	76.25	62.68	34.98	61.95	65- 70	31.94	430.1
75.0	70.33	54.48	28.42	52.02	68.42	54.75	24.59	54.20	70- 75	28.47	458.6
80.0	63.13	47.28	18.76	44.91	61.13	47.64	15.48	47.19	75- 80	24.91	483.5
85.0	56.48	40.81	10.56	38.53	54.48	41.18	7.744	40.72	80- 85	21.47	505.0
90.0	50.29	34.89	4.008	32.79	48.28	35.25	2.277	34.89	85- 90	18.28	523.3
95.0	44.18	29.60	3.006	27.69	42.36	29.97	2.186	29.70	90- 95	15.47	538.7
100.0	38.72	24.59	2.915	22.41	36.98	24.23	2.277	23.96	95-100	12.91	551.6
105.0	31.88	18.22	2.824	17.12	29.97	18.95	2.277	18.58	100-105	10.27	561.9
110.0	25.50	13.93	2.824	13.48	24.41	14.48	2.277	14.39	105-110	7.505	569.4
115.0	21.95	11.20	2.824	10.20	21.04	11.57	2.459	11.38	110-115	6.061	575.5
120.0	18.58	9.384	2.824	8.746	17.85	9.748	2.459	9.657	115-120	4.995	580.5
125.0	15.67	8.199	2.824	7.652	15.03	8.564	2.550	8.381	120-125	4.120	584.6
130.0	12.93	7.015	2.824	6.286	12.48	7.197	2.550	7.106	125-130	3.329	587.9
135.0	10.65	5.739	2.733	5.284	10.29	5.830	2.642	5.739	130-135	2.615	590.6
140.0	8.381	4.646	2.733	4.282	8.199	4.737	2.642	4.646	135-140	1.988	592.5
145.0	0	0	0	0	0	0	0	0	140-145	0	592.5
150.0	0	0	0	0	0	0	0	0	145-150	0	592.5
155.0	0	0	0	0	0	0	0	0	150-155	0	592.5
160.0	0	0	0	0	0	0	0	0	155-160	0	592.5
165.0	0	0	0	0	0	0	0	0	160-165	0	592.5
170.0	0	0	0	0	0	0	0	0	165-170	0	592.5
175.0	0	0	0	0	0	0	0	0	170-175	0	592.5
180.0	0	0	0	0	0	0	0	0	175-180	0	592.5
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

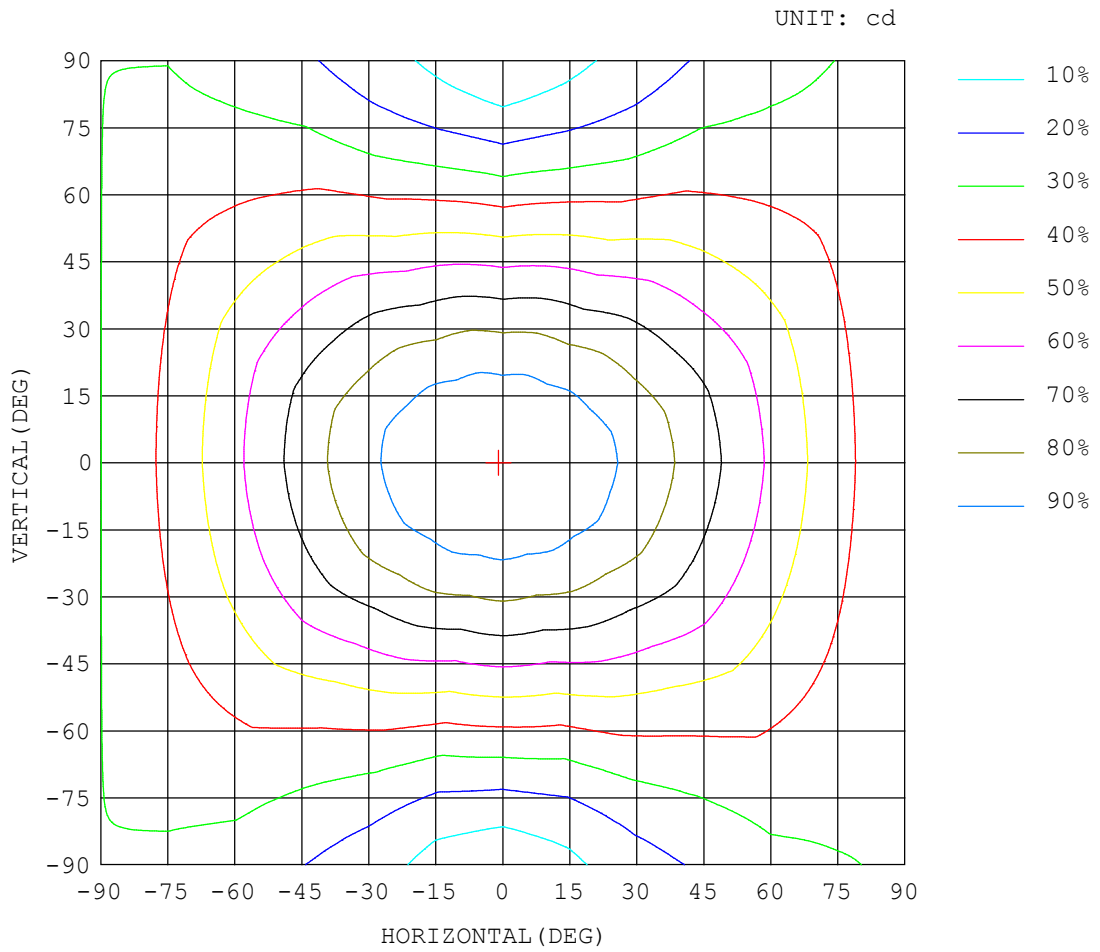
Test System:LSG-1600
Temperature:23.3DEG
Operators:REGAIP DASTAN
Test Date:03-05-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
Humidity:54.0%
Test Distance:9.545 m
Remarks: LLB33 T90 CW 120D 7.2W 220V AC IP44

ISOCANDELA DIAGRAM

Report number: 2016000065

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLB33 T90 CW 120D 7.2W 220V AC IP44	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE BOLD 33	DIMENSION: 1010x45x33	SERIAL No.:



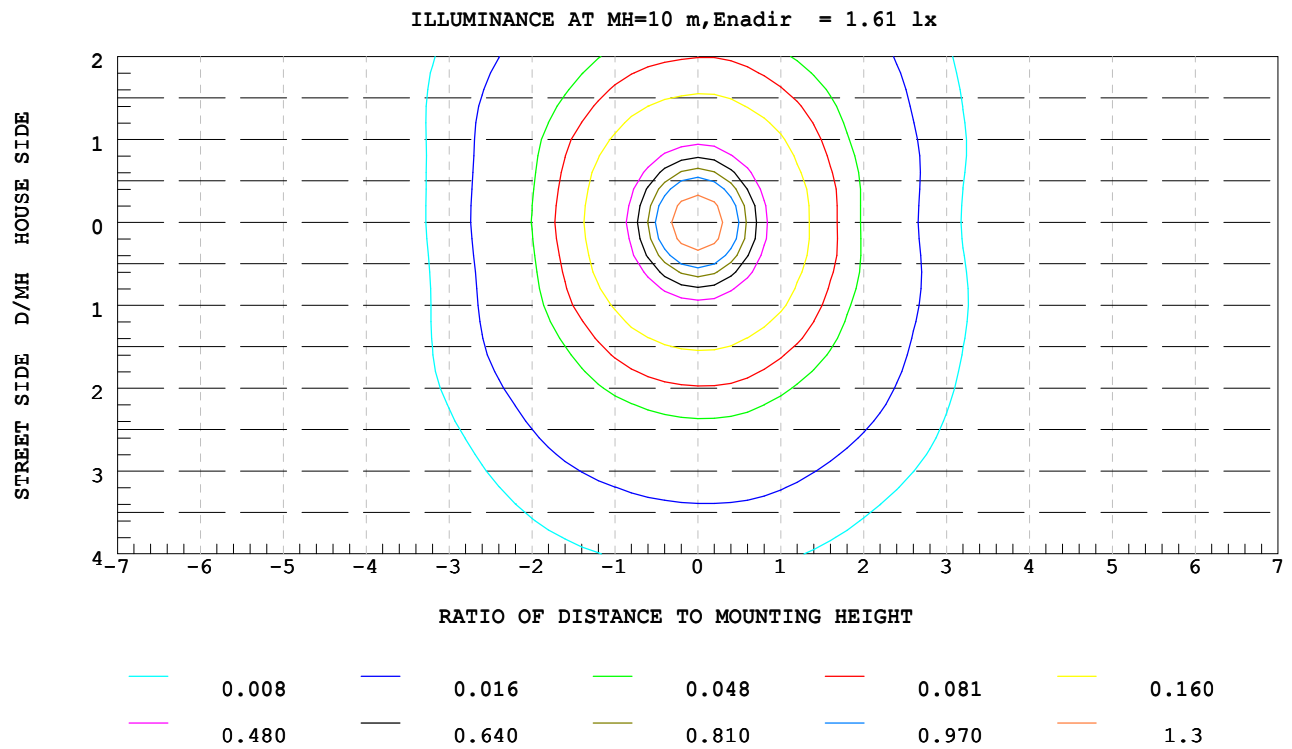
Test System:LSG-1600
Temperature:23.3DEG
Operators:REGAIP DASTAN
Test Date:03-05-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
Humidity:54.0%
Test Distance:9.545 m
Remarks: LLB33 T90 CW 120D 7.2W 220V AC IP44

ISOLUX DIAGRAM

Report number: 2016000065

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLB33 T90 CW 120D 7.2W 220V AC IP44	TYPE: LED LINE	WEIGHT:
SPECIFICATION: LED LINE BOLD 33	DIMENSION: 1010x45x33	SERIAL No.:



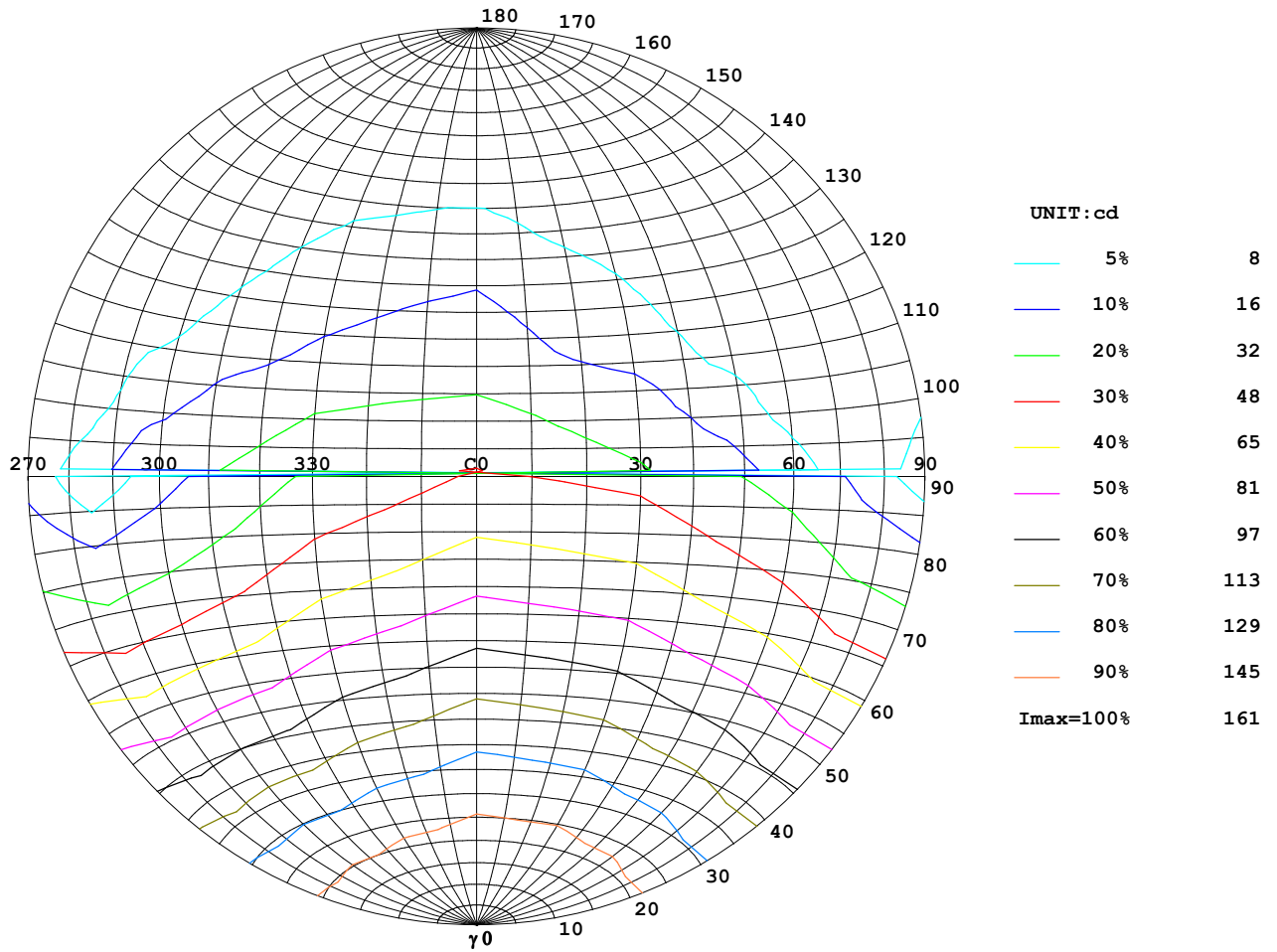
Test System: LSG-1600
 Temperature: 23.3 DEG
 Operators: REGAIP DASTAN
 Test Date: 03-05-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity: 54.0%
 Test Distance: 9.545 m
 Remarks: LLB33 T90 CW 120D 7.2W 220V AC IP44

ISOCANDELA DIAGRAM

Report number: 2016000065

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLB33 T90 CW 120D 7.2W 220V AC IP44	TYPE: LED LINE	WEIGHT:
SPECIFICATION: LED LINE BOLD 33	DIMENSION: 1010x45x33	SERIAL No.:



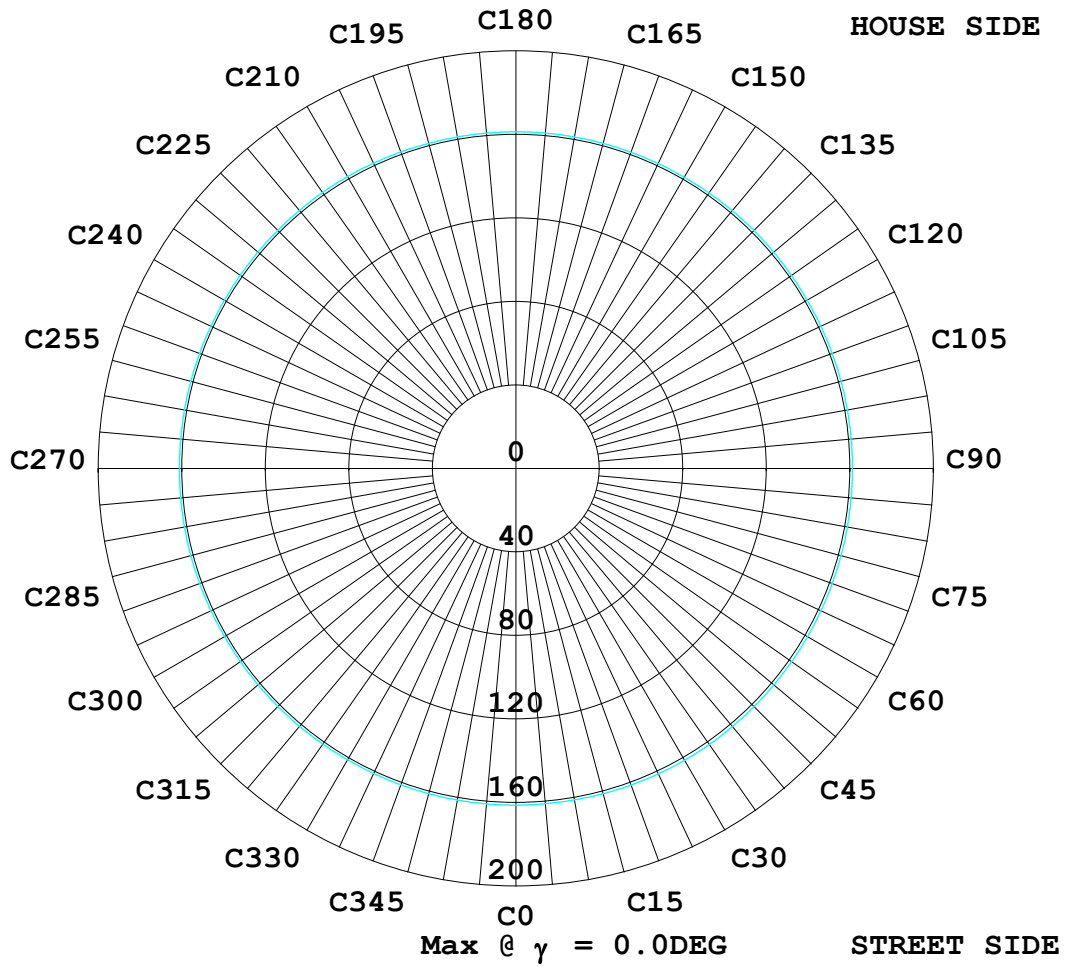
Test System: LSG-1600
Temperature: 23.3 DEG
Operators: REGAIP DASTAN
Test Date: 03-05-2016

Test Set: 2.0 deg/s C-Gamma (TYPE C)
Humidity: 54.0%
Test Distance: 9.545 m
Remarks: LLB33 T90 CW 120D 7.2W 220V AC IP44

ISOCANDELA DIAGRAM

Report number: 2016000065

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLB33 T90 CW 120D 7.2W 220V AC IP44	TYPE: LED LINE	WEIGHT:
SPECIFICATION: LED LINE BOLD 33	DIMENSION: 1010x45x33	SERIAL No.:



Test System: LSG-1600
 Temperature: 23.3DEG
 Operators: REGAIP DASTAN
 Test Date: 03-05-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity: 54.0%
 Test Distance: 9.545 m
 Remarks: LLB33 T90 CW 120D 7.2W 220V AC IP44

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 2016000065

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLB33 T90 CW 120D 7.2W 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	161	161	161	161	161	161	161	161	161	161	161	161	161	161	161
5.0	160	160	161	160	161	160	161	160	161	161	161	161	161	161	161
10.0	158	158	159	158	158	158	158	158	159	159	159	159	159	159	159
15.0	155	155	155	154	154	153	154	153	155	155	156	156	157	157	155
20.0	151	150	151	149	149	147	148	147	149	150	152	152	153	153	151
25.0	146	145	145	142	142	139	140	139	142	143	146	147	148	148	145
30.0	140	139	138	135	133	130	131	130	134	135	139	141	142	142	138
35.0	134	132	131	126	124	120	121	120	124	127	132	134	135	135	131
40.0	127	125	123	118	115	109	110	109	114	117	124	126	128	128	123
45.0	119	117	115	108	104	98.1	98.5	97.5	104	108	115	118	120	120	114
50.0	111	109	106	98.7	93.8	86.5	86.6	85.8	92.6	97.5	106	109	111	111	105
55.0	103	100	97.4	89.1	83.3	74.9	74.5	73.9	81.7	87.6	96.3	99.5	102	102	95.6
60.0	94.3	91.5	88.7	79.9	73.2	63.5	62.4	62.4	71.2	77.8	87.1	90.6	93.1	93.1	86.5
65.0	86.0	83.0	80.0	70.8	63.4	52.6	50.5	51.1	61.1	68.6	78.2	81.8	84.4	84.3	77.7
70.0	77.9	74.9	71.7	62.3	54.1	42.2	39.0	40.4	51.6	59.8	69.8	73.7	76.2	76.1	69.5
75.0	70.3	67.4	64.2	54.4	45.7	32.8	28.4	30.8	43.0	52.0	62.2	66.1	68.4	68.4	61.7
80.0	63.1	60.3	57.0	47.2	38.0	24.5	18.7	22.5	35.5	44.9	55.1	58.8	61.1	61.1	54.6
85.0	56.4	53.5	50.3	40.8	31.4	17.8	10.5	15.6	28.9	38.5	48.3	52.2	54.4	54.2	48.0
90.0	50.2	47.3	44.1	34.8	25.8	12.7	4.00	10.8	23.5	32.7	42.4	46.0	48.2	48.0	41.9
95.0	44.1	41.6	38.4	29.6	21.0	9.11	3.00	7.56	18.9	27.6	36.7	40.2	42.3	42.1	36.2
100.0	38.7	36.1	33.2	24.5	14.6	6.37	2.91	5.37	13.3	22.4	31.7	35.0	36.9	36.8	31.1
105.0	31.8	29.2	22.1	18.2	12.4	5.10	2.82	4.19	11.1	17.1	23.2	27.7	29.9	29.3	21.0
110.0	25.5	21.0	18.8	13.9	9.20	4.28	2.82	3.37	8.19	13.4	18.0	20.2	24.4	21.5	17.4
115.0	21.9	18.7	15.9	11.2	7.28	3.37	2.82	2.73	6.92	10.2	15.3	17.9	21.0	19.3	14.8
120.0	18.5	16.3	13.8	9.38	6.46	2.82	2.82	2.45	5.83	8.74	13.2	15.7	17.8	16.7	12.9
125.0	15.6	13.9	12.0	8.19	5.55	2.55	2.82	2.55	5.01	7.65	11.4	13.4	15.0	14.3	11.2
130.0	12.9	11.6	10.2	7.01	4.64	2.64	2.82	2.55	4.09	6.28	9.65	11.2	12.4	12.0	9.47
135.0	10.6	9.56	8.38	5.73	3.73	2.64	2.73	2.55	3.46	5.28	7.92	9.29	10.2	9.83	7.74
140.0	8.38	7.74	6.74	4.64	3.09	2.82	2.73	2.64	2.91	4.28	6.37	7.19	8.19	7.74	6.28
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:23.3DEG
Operators:REGAIP DASTAN
Test Date:03-05-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
Humidity:54.0%
Test Distance:9.545 m
Remarks: LLB33 T90 CW 120D 7.2W 220V AC IP44

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 2016000065

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLB33 T90 CW 120D 7.2W 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	161	161	161	161	161	161	161	161	161
5.0	161	160	160	160	160	160	160	160	160
10.0	159	157	157	156	157	157	157	157	158
15.0	155	153	153	151	152	152	153	153	155
20.0	150	147	146	144	146	145	148	148	151
25.0	143	139	139	136	138	138	141	142	145
30.0	136	131	130	127	129	129	133	136	139
35.0	128	122	120	116	119	120	125	128	133
40.0	119	111	109	105	108	109	116	120	126
45.0	109	101	97.6	93.5	96.6	99.1	107	112	118
50.0	99.6	90.3	86.3	81.8	85.3	88.6	97.8	103	110
55.0	90.0	79.8	74.7	69.7	73.8	78.2	88.4	94.4	101
60.0	80.4	69.5	63.3	57.7	62.5	68.1	79.1	85.7	92.9
65.0	71.3	59.7	52.4	46.2	51.5	58.5	70.4	77.2	84.6
70.0	62.6	50.5	42.0	34.9	41.1	49.5	61.9	69.1	76.5
75.0	54.7	42.2	32.6	24.5	31.7	41.2	54.2	61.5	68.8
80.0	47.6	35.0	24.4	15.4	23.5	34.0	47.1	54.5	61.7
85.0	41.1	28.7	17.7	7.74	16.8	27.8	40.7	48.1	55.0
90.0	35.2	23.4	12.9	2.27	11.9	22.5	34.8	42.0	48.7
95.0	29.9	18.8	9.47	2.18	8.65	18.0	29.7	36.4	42.9
100.0	24.2	13.2	6.83	2.27	6.28	12.2	23.9	31.2	37.3
105.0	18.9	11.0	5.55	2.27	5.10	10.5	18.5	21.2	30.3
110.0	14.4	8.29	4.37	2.27	4.19	7.65	14.3	17.5	21.7
115.0	11.5	6.55	3.55	2.45	3.37	6.28	11.3	14.8	19.3
120.0	9.74	5.83	3.00	2.45	3.00	5.55	9.65	12.7	16.8
125.0	8.56	4.82	2.82	2.55	2.82	4.64	8.38	11.0	14.3
130.0	7.19	4.00	2.82	2.55	2.82	3.91	7.10	9.38	12.0
135.0	5.83	3.37	2.82	2.64	2.82	3.18	5.73	7.74	10.0
140.0	4.73	2.91	2.82	2.64	2.82	2.73	4.64	6.19	7.92
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:23.3DEG
 Operators:REGAIP DASTAN
 Test Date:03-05-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity:54.0%
 Test Distance:9.545 m
 Remarks: LLB33 T90 CW 120D 7.2W 220V AC IP44