

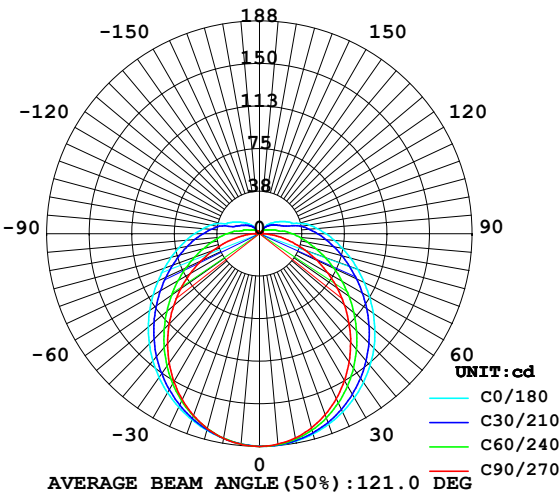
STREETLIGHT PHOTOMETRIC TEST REPORT

Report number: 2016000068

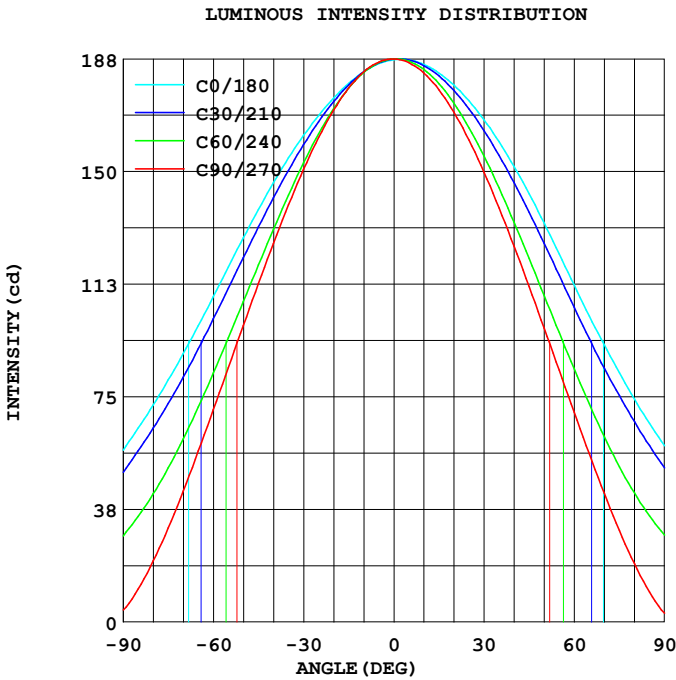
MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLB33 BT45 CW 120D 10.8 W 220V AC IP44	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE BOLD 33	DIMENSION: 1010x45x33	SERIAL No.:

TEST DATA:					
MODEL:	LLB33	Imax(cd) :	187.8	η street_up(%) :	5.7
NOMINAL POWER(W) :	10.8	MAXIMUM(C, γ):	165,1.0	η street_down(%) :	46.6
RATED VOLTAGE (V) :	220	TOTAL FLUX(lm) :	740.3	η house_up(%)	5.8
NOMINAL FLUX(lm) :	740.3	EFFICIENCY(%) :	100.0	η house_down(%) :	41.8
TEST FLUX(lm:	740.3	η up(%) :	11.6		
LAMPS QUANTITY:	1	η down(%) :	88.4		

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANS



INTENSITY DISTRIBUTION DIAGRAM
IN C PLANS



Test:U:220.6V I:0.149A P:10.80W PF:0.537

Test System:LSG-1600
Temperature:25.1DEG
Operators:REGAIP DASTAN
Test Date:03-08-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
Humidity:50.0%
Test Distance:9.545 m
Remarks: LLB33 BT45 CW 120D 10.8 W 220V AC 1

ZONAL FLUX DIAGRAM

Report number: 2016000068

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLB33 BT45 CW 120D 10.8 W 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	186.2	186.1	186.6	187.0	187.4	187.4	186.4	186.5	0- 5	4.473	4.473
10.0	183.3	182.7	183.4	184.4	185.9	185.4	183.0	183.4	5- 10	13.24	17.71
15.0	179.5	177.7	178.1	180.1	183.0	181.5	177.4	178.6	10- 15	21.51	39.23
20.0	174.7	171.2	170.7	174.0	179.0	176.2	170.0	172.5	15- 20	29.00	68.23
25.0	168.8	163.4	161.5	166.4	173.8	169.2	160.7	164.9	20- 25	35.46	103.6
30.0	162.2	154.6	150.9	157.6	167.4	161.0	149.9	156.2	25- 30	40.73	144.4
35.0	154.7	144.9	139.1	147.6	160.1	151.8	138.1	146.7	30- 35	44.68	189.1
40.0	146.5	134.3	126.2	136.8	151.8	141.7	125.2	136.4	35- 40	47.24	236.3
45.0	137.5	123.6	112.8	125.7	142.7	131.0	111.7	125.8	40- 45	48.41	284.7
50.0	128.1	112.6	98.94	114.1	133.0	119.9	97.94	114.8	45- 50	48.27	333.0
55.0	118.3	101.4	84.82	102.5	122.7	108.7	83.90	103.9	50- 55	46.92	379.9
60.0	108.5	90.74	70.88	91.28	112.3	97.57	69.87	93.11	55- 60	44.53	424.5
65.0	98.76	80.35	57.03	80.53	102.0	86.73	56.12	82.72	60- 65	41.31	465.8
70.0	89.46	70.51	43.64	70.33	92.38	76.34	42.82	72.70	65- 70	37.53	503.3
75.0	80.72	61.49	31.34	61.22	83.08	66.96	30.42	63.41	70- 75	33.45	536.8
80.0	72.33	53.38	20.31	52.84	74.34	58.39	19.49	55.11	75- 80	29.28	566.0
85.0	64.59	45.91	10.93	45.37	66.23	50.47	10.02	47.46	80- 85	25.22	591.3
90.0	57.30	39.08	4.008	38.72	58.76	43.45	2.915	40.63	85- 90	21.46	612.7
95.0	50.47	33.07	3.279	32.70	51.65	36.89	2.277	34.34	90- 95	18.15	630.9
100.0	44.00	26.14	3.188	24.87	45.00	29.51	2.368	27.42	95-100	15.07	646.0
105.0	35.34	20.22	3.097	20.40	35.25	23.32	2.459	21.04	100-105	11.84	657.8
110.0	28.69	15.30	3.006	15.76	29.51	18.49	2.459	16.85	105-110	8.649	666.5
115.0	24.50	12.02	3.006	11.57	25.41	14.03	2.550	12.39	110-115	6.964	673.4
120.0	20.68	10.11	3.006	10.38	21.59	11.93	2.642	10.56	115-120	5.719	679.1
125.0	17.40	8.837	3.006	9.110	18.22	10.47	2.733	9.201	120-125	4.711	683.9
130.0	14.21	7.470	3.006	7.379	15.12	8.655	2.733	7.561	125-130	3.790	687.6
135.0	11.57	6.013	3.006	6.286	12.48	7.197	2.824	6.195	130-135	2.959	690.6
140.0	8.928	4.828	3.006	5.010	9.839	5.739	2.915	4.919	135-140	2.230	740.3
145.0	0	0	0	0	0	0	0	0	140-145	0	
150.0	0	0	0	0	0	0	0	0	145-150	0	
155.0	0	0	0	0	0	0	0	0	150-155	0	
160.0	0	0	0	0	0	0	0	0	155-160	0	
165.0	0	0	0	0	0	0	0	0	160-165	0	
170.0	0	0	0	0	0	0	0	0	165-170	0	
175.0	0	0	0	0	0	0	0	0	170-175	0	
180.0	0	0	0	0	0	0	0	0	175-180	0	
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

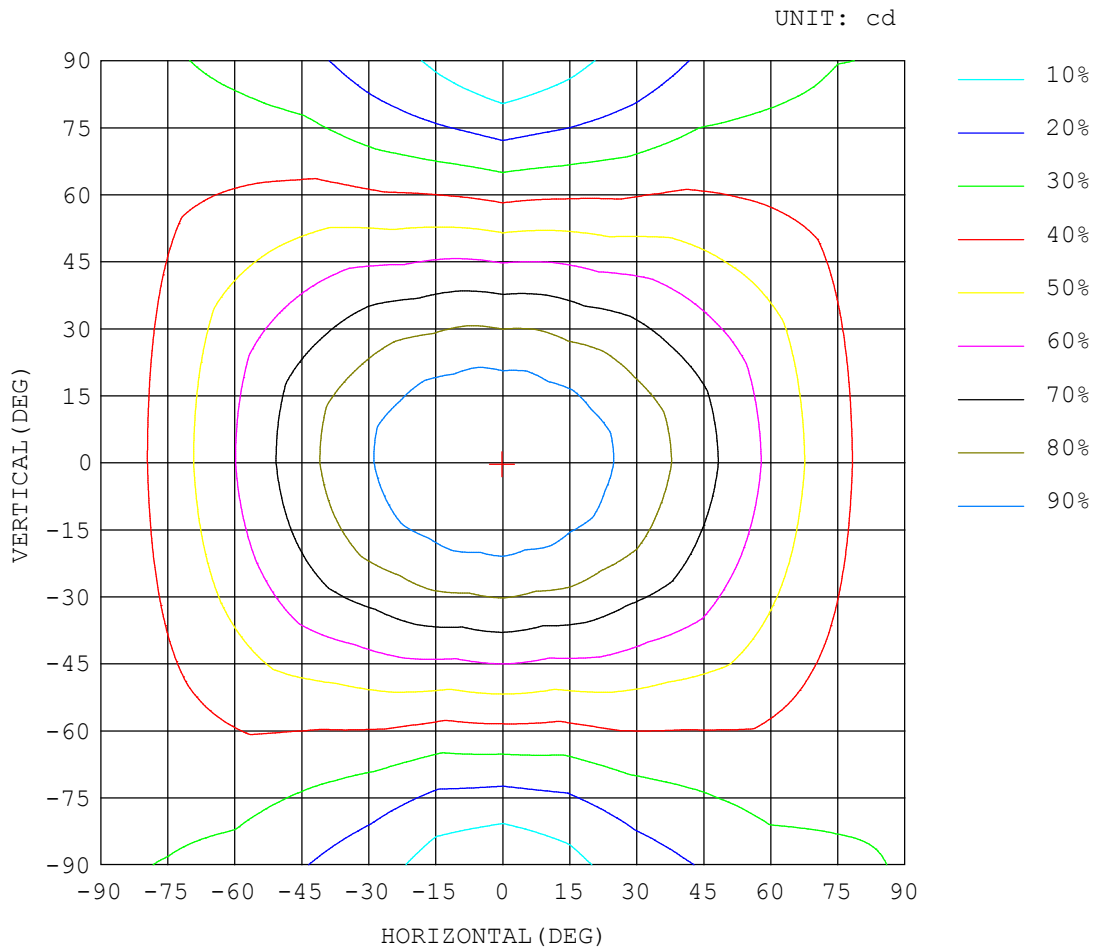
Test System:LSG-1600
Temperature:25.1DEG
Operators:REGAIP DASTAN
Test Date:03-08-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
Humidity:50.0%
Test Distance:9.545 m
Remarks: LLB33 BT45 CW 120D 10.8 W 220V AC 1

ISOCANDELA DIAGRAM

Report number: 2016000068

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLB33 BT45 CW 120D 10.8 W 220V AC IP44	TYPE: LED LINE	WEIGHT:
SPECIFICATION: LED LINE BOLD 33	DIMENSION: 1010x45x33	SERIAL No.:



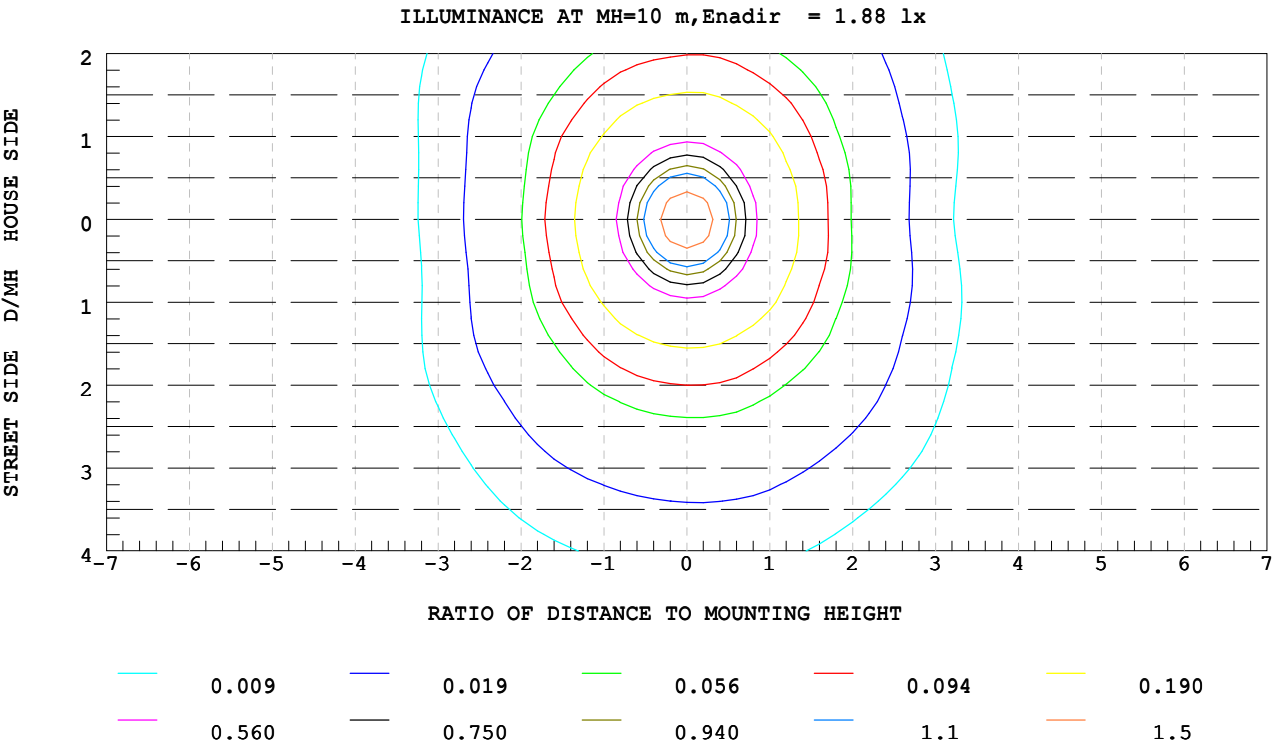
Test System: LSG-1600
Temperature: 25.1 DEG
Operators: REGAIP DASTAN
Test Date: 03-08-2016

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Humidity: 50.0%
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Remarks: LLB33 BT45 CW 120D 10.8 W 220V AC 1

ISOLUX DIAGRAM

Report number: 2016000068

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLB33 BT45 CW 120D 10.8 W 220V AC IP44	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE BOLD 33	DIMENSION: 1010x45x33	SERIAL No.:



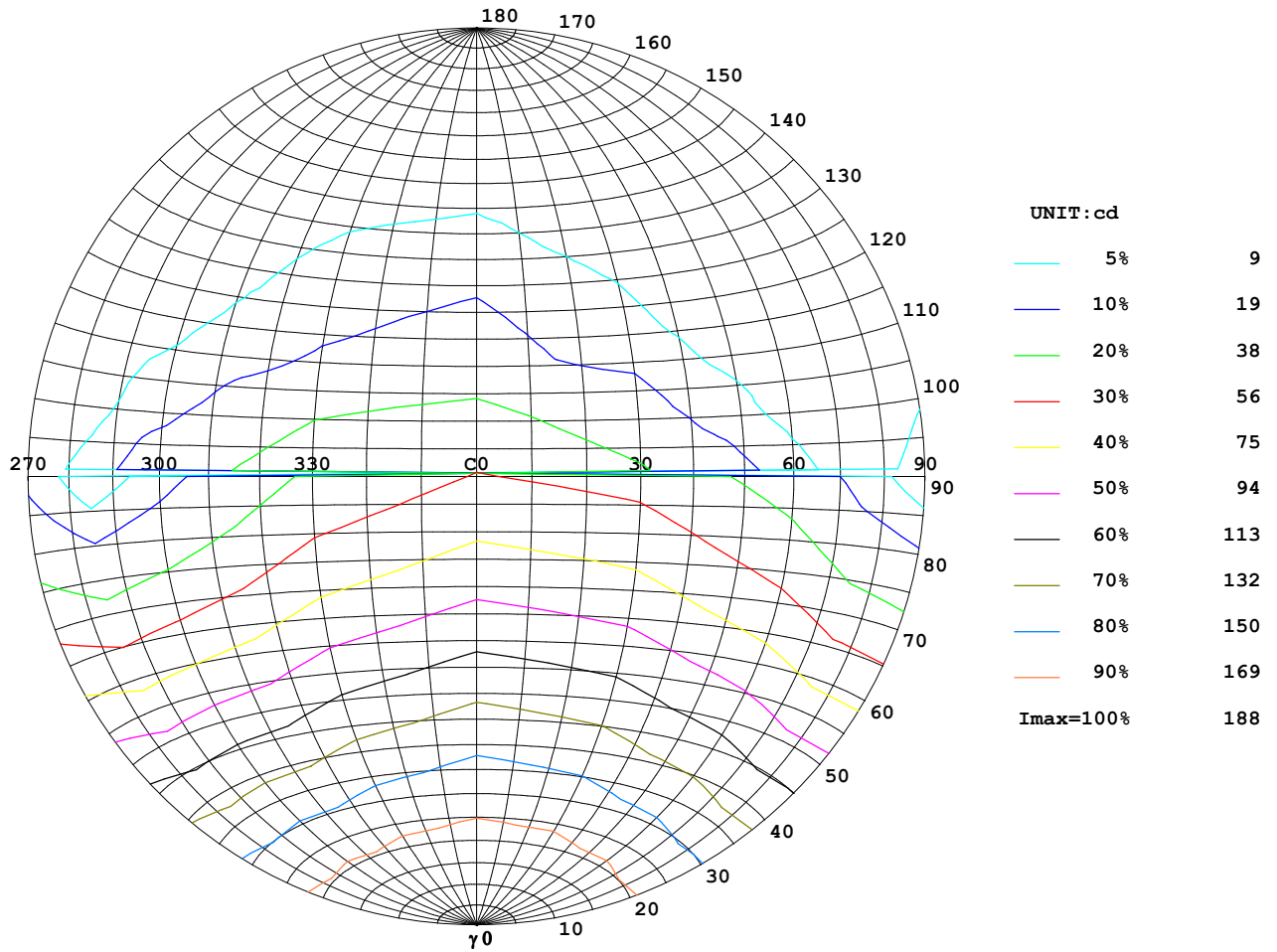
Test System:LSG-1600
Temperature:25.1DEG
Operators:REGAIP DASTAN
Test Date:03-08-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
Humidity:50.0%
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ISOCANDELA DIAGRAM

Report number: 2016000068

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NAME: LLB33 BT45 CW 120D 10.8 W 220V AC IP44	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE BOLD 33	DIMENSION: 1010x45x33	SERIAL No.:



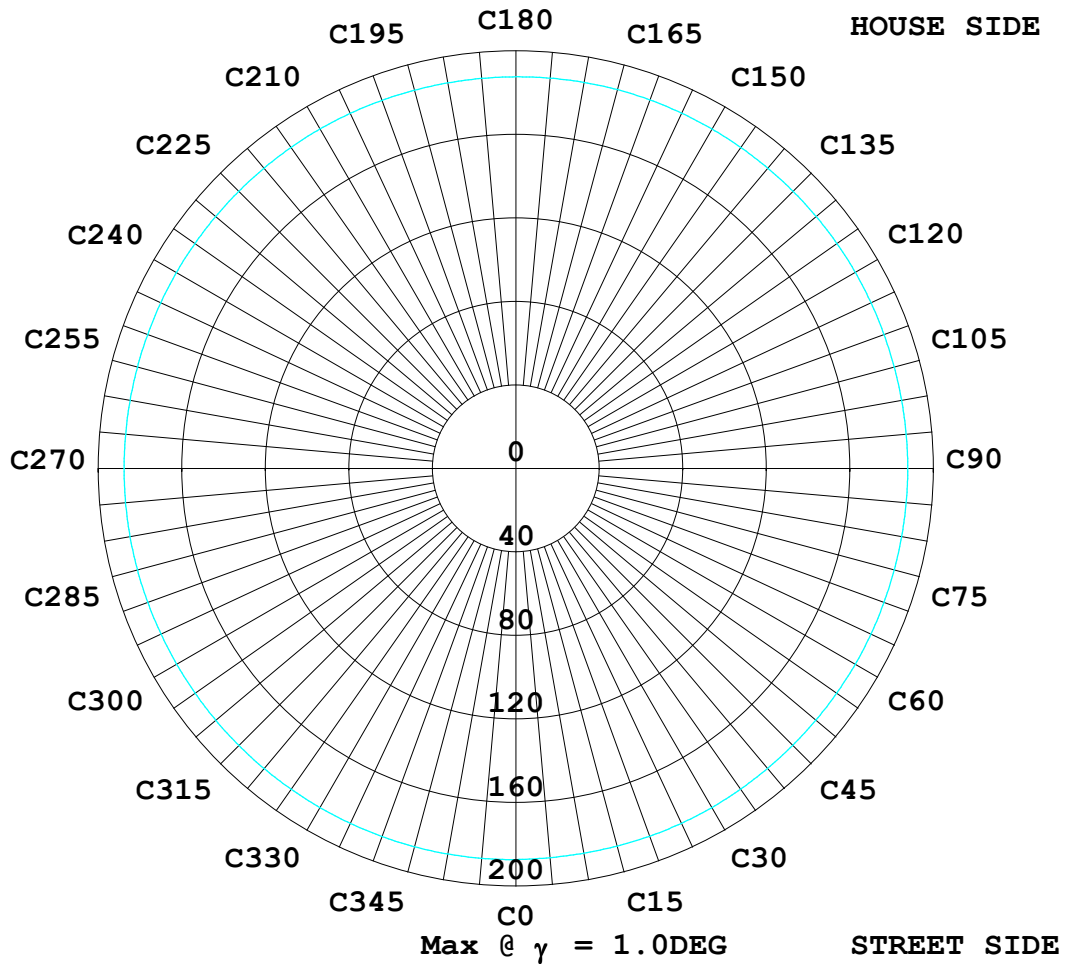
Test System:LSG-1600
Temperature:25.1DEG
Operators:REGAIP DASTAN
Test Date:03-08-2016

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ISOCANDELA DIAGRAM

Report number: 2016000068

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLB33 BT45 CW 120D 10.8 W 220V AC IP44	TYPE: LED LINE	WEIGHT:
SPECIFICATION: LED LINE BOLD 33	DIMENSION: 1010x45x33	SERIAL No.:



Test System: LSG-1600
 Temperature: 25.1DEG
 Operators: REGAIP DASTAN
 Test Date: 03-08-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity: 50.0%
 Test Distance: 9.545 m
 Remarks: LLB33 BT45 CW 120D 10.8 W 220V AC 1

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 2016000068

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLB33 BT45 CW 120D 10.8 W 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	187	187	188	188	188	188	188	188	188	188	188	188	187	187	188
5.0	186	186	186	186	186	186	187	186	187	187	187	187	187	188	187
10.0	183	183	183	183	183	183	183	183	184	184	186	186	186	186	185
15.0	180	179	179	178	178	177	178	178	180	180	182	182	183	183	182
20.0	175	174	174	171	171	169	171	170	173	174	177	178	179	179	177
25.0	169	167	167	163	163	160	162	161	165	166	171	172	174	174	171
30.0	162	160	159	155	153	149	151	150	155	158	163	165	167	168	164
35.0	155	152	151	145	142	138	139	138	144	148	155	158	160	161	156
40.0	147	144	141	134	131	125	126	126	132	137	145	149	152	152	147
45.0	138	134	132	124	119	112	113	112	120	126	135	139	143	143	137
50.0	128	125	122	113	107	98.4	98.9	98.5	107	114	125	129	133	133	126
55.0	118	115	111	101	94.7	85.0	84.8	84.7	94.7	103	114	119	123	123	116
60.0	109	105	101	90.7	82.9	71.9	70.8	71.2	82.5	91.2	103	109	112	113	105
65.0	98.7	94.9	91.1	80.3	71.7	59.2	57.0	58.1	70.6	80.5	92.8	98.2	102	102	94.5
70.0	89.4	85.6	81.6	70.5	61.0	47.2	43.6	45.7	59.6	70.3	83.0	88.7	92.3	92.6	84.6
75.0	80.7	76.9	72.8	61.4	51.3	36.5	31.3	34.6	49.7	61.2	74.1	79.7	83.0	83.3	75.5
80.0	72.3	68.6	64.6	53.3	42.7	27.1	20.3	25.0	40.9	52.8	65.6	71.0	74.3	74.6	66.8
85.0	64.5	60.9	57.0	45.9	35.1	19.5	10.9	17.3	33.5	45.3	57.8	63.0	66.2	66.3	58.8
90.0	57.3	53.7	49.9	39.0	28.6	13.8	4.00	11.9	27.2	38.7	50.7	55.6	58.7	58.7	51.3
95.0	50.4	47.1	43.3	33.0	23.3	9.93	3.27	8.38	21.9	32.7	44.0	48.7	51.6	51.5	44.5
100.0	44.0	40.8	37.3	26.1	15.8	6.92	3.18	5.92	15.3	24.8	37.9	42.3	45.0	45.0	38.2
105.0	35.3	31.9	24.7	20.2	13.6	5.46	3.09	4.73	12.4	20.4	26.6	32.8	35.2	35.1	26.9
110.0	28.6	23.2	20.5	15.3	9.83	4.28	3.00	3.73	9.56	15.7	21.2	23.7	29.5	25.8	21.1
115.0	24.5	20.6	17.4	12.0	7.92	3.46	3.00	3.09	8.10	11.5	18.0	21.3	25.4	23.2	17.9
120.0	20.6	17.8	15.2	10.1	7.01	2.91	3.00	2.73	6.65	10.3	15.7	18.7	21.5	20.4	15.7
125.0	17.4	15.2	13.1	8.83	5.73	2.82	3.00	2.73	5.83	9.11	13.6	16.1	18.2	17.4	13.6
130.0	14.2	12.6	11.1	7.47	4.82	2.82	3.00	2.73	4.73	7.37	11.4	13.5	15.1	14.5	11.5
135.0	11.5	10.3	9.01	6.01	3.91	2.91	3.00	2.82	3.91	6.28	9.29	10.9	12.4	11.7	9.38
140.0	8.92	8.10	7.10	4.82	3.27	3.00	3.00	2.91	3.27	5.01	7.65	8.65	9.83	9.20	7.65
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:25.1DEG
Operators:REGAIP DASTAN
Test Date:03-08-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
Humidity:50.0%
Test Distance:9.545 m
Remarks: LLB33 BT45 CW 120D 10.8 W 220V AC 1

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 2016000068

MANUFACTURER: FIBERLI				Address:PSL ELEKTRONIK ANTALYA			
NAME: LLB33 BT45 CW 120D 10.8 W 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	188	188	188	188	188	188	188	188	188
5.0	187	187	187	186	187	186	187	186	187
10.0	185	184	184	183	183	183	183	183	184
15.0	182	179	179	177	178	177	179	179	180
20.0	176	173	172	170	171	170	173	173	175
25.0	169	165	164	161	162	162	165	166	169
30.0	161	155	154	150	152	152	156	158	162
35.0	152	145	142	138	140	141	147	150	155
40.0	142	133	130	125	128	129	136	140	146
45.0	131	121	117	112	115	117	126	131	137
50.0	120	109	104	97.9	102	105	115	121	128
55.0	109	96.5	90.2	83.9	88.1	92.7	104	110	118
60.0	97.5	84.3	76.8	69.8	74.7	80.8	93.1	100	108
65.0	86.7	72.7	63.9	56.1	61.9	69.5	82.7	90.1	97.8
70.0	76.3	61.7	51.5	42.8	49.5	58.7	72.7	80.5	88.5
75.0	66.9	51.7	40.0	30.4	38.2	48.9	63.4	71.6	79.6
80.0	58.3	43.0	30.2	19.4	28.3	40.2	55.1	63.4	71.3
85.0	50.4	35.4	22.1	10.0	20.2	32.7	47.4	55.6	63.4
90.0	43.4	28.9	16.0	2.91	14.1	26.4	40.6	48.5	56.0
95.0	36.8	23.3	11.6	2.27	10.0	21.0	34.3	41.9	49.1
100.0	29.5	16.3	8.47	2.36	7.10	14.0	27.4	35.8	42.7
105.0	23.3	13.3	6.74	2.45	5.55	11.8	21.0	24.9	33.8
110.0	18.4	10.3	5.37	2.45	4.37	8.65	16.8	19.4	24.1
115.0	14.0	8.29	4.19	2.55	3.64	7.01	12.3	16.4	21.5
120.0	11.9	7.10	3.55	2.64	3.09	5.92	10.5	14.1	18.6
125.0	10.4	5.92	3.09	2.73	3.09	4.91	9.20	12.2	15.9
130.0	8.65	4.91	3.09	2.73	3.00	4.09	7.56	10.2	13.3
135.0	7.19	4.09	3.09	2.82	3.00	3.37	6.19	8.29	10.9
140.0	5.73	3.46	3.09	2.91	3.00	2.91	4.91	6.55	8.38
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:25.1DEG
 Operators:REGAIP DASTAN
 Test Date:03-08-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity:50.0%
 Test Distance:9.545 m
 Remarks: LLB33 BT45 CW 120D 10.8 W 220V AC 1