

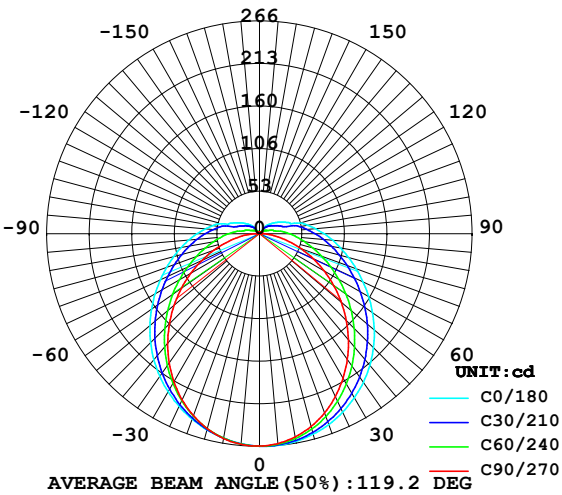
STREETLIGHT PHOTOMETRIC TEST REPORT

Report number: 2016000069

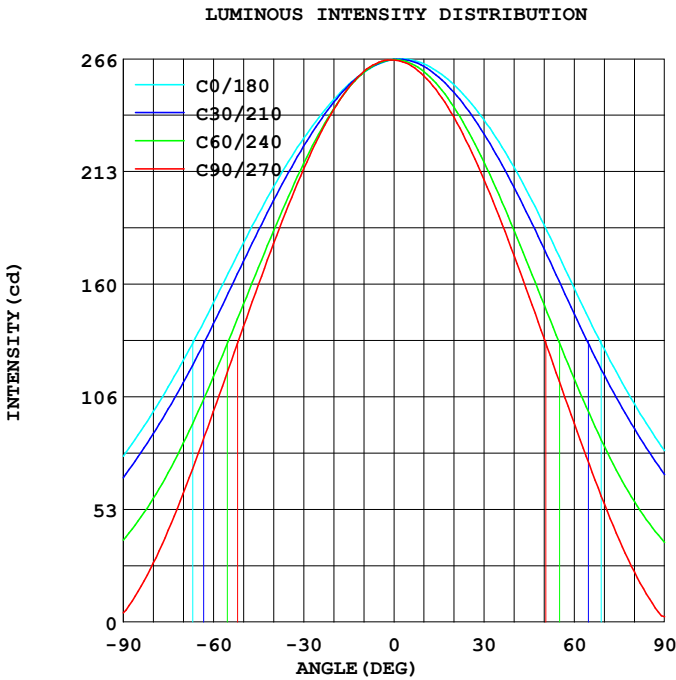
MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLB33 BT60 CW 120D 14.4W 220V AC IP44	DTYPE:LED LINE BOLD	WEIGHT:---
SPECIFICATION:LED LINE BOLD 33	DIMENSION: 1010x45x33mm	SERIAL No.:

TEST DATA:					
MODEL:	LLB33	Imax(cd) :	265.9	η street_up(%) :	5.5
NOMINAL POWER(W) :	14.4	MAXIMUM(C, γ):	180,2.0	η street_down(%) :	46.7
RATED VOLTAGE (V) :	220	TOTAL FLUX(lm) :	960.1	η house_up(%)	5.7
NOMINAL FLUX(lm) :	960.2	EFFICIENCY(%) :	100.0	η house_down(%) :	42.2
TEST FLUX(lm:	960.1	η up(%) :	11.1		
LAMPS QUANTITY:	1	η down(%) :	88.9		

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANS



INTENSITY DISTRIBUTION DIAGRAM
IN C PLANS



Test:U:220.6V I:0.178A P:14.40W PF:0.550

Test System:LSG-1600
Temperature:25.4DEG
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 BT60 CW 120D 14.4W 220V AC II

ZONAL FLUX DIAGRAM

Report number: 2016000069

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLB33 BT60 CW 120D 14.4W 220V AC IP44	DTYPE: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	263.5	263.5	264.3	264.7	265.6	265.0	263.3	263.2	0- 5	6.326	6.326
10.0	259.4	258.8	259.9	261.3	263.5	261.8	257.9	258.3	5- 10	18.72	25.05
15.0	253.9	251.7	252.4	255.4	259.5	256.0	249.4	251.1	10- 15	30.39	55.44
20.0	246.7	242.5	241.9	246.9	253.7	247.9	238.4	241.8	15- 20	40.94	96.39
25.0	238.0	231.4	229.0	236.2	246.1	237.6	224.6	230.6	20- 25	50.01	146.4
30.0	228.4	218.7	213.8	223.7	237.1	225.5	208.9	217.8	25- 30	57.36	203.7
35.0	217.4	204.7	196.8	209.6	226.6	212.0	191.6	204.0	30- 35	62.81	266.6
40.0	205.4	189.6	178.5	194.2	214.7	197.4	173.0	189.1	35- 40	66.29	332.8
45.0	192.6	174.2	159.3	178.2	201.5	181.8	153.6	173.8	40- 45	67.80	400.6
50.0	178.9	158.2	139.4	161.7	187.4	165.9	133.8	158.2	45- 50	67.42	468.1
55.0	164.8	142.3	119.3	145.1	172.7	149.8	113.7	142.5	50- 55	65.35	533.4
60.0	150.6	126.9	99.39	129.0	157.6	133.9	93.74	127.2	55- 60	61.83	595.3
65.0	136.7	111.9	79.62	113.4	142.8	118.6	74.43	112.6	60- 65	57.17	652.4
70.0	123.4	97.84	60.76	98.85	128.8	104.0	55.84	98.66	65- 70	51.73	704.2
75.0	111.0	85.09	43.27	85.73	115.4	90.65	38.62	85.82	70- 75	45.91	750.1
80.0	99.30	73.43	27.69	73.88	103.0	78.62	23.59	74.34	75- 80	40.00	790.1
85.0	88.37	62.86	14.48	63.13	91.56	67.60	11.02	63.77	80- 85	34.30	824.4
90.0	78.16	53.29	4.282	53.66	80.90	57.85	2.459	54.29	85- 90	29.05	853.5
95.0	68.51	44.82	3.553	45.18	70.88	48.92	2.459	45.64	90- 95	24.48	877.9
100.0	59.49	36.80	3.462	37.44	61.67	40.72	2.459	36.98	95-100	20.32	898.3
105.0	49.10	26.96	3.370	27.42	52.02	30.33	2.550	27.87	100-105	16.15	914.4
110.0	38.62	20.22	3.279	21.68	40.36	23.05	2.642	21.13	105-110	11.53	926.0
115.0	32.79	16.03	3.279	16.58	34.52	18.49	2.733	16.30	110-115	9.187	935.2
120.0	27.51	13.11	3.370	13.66	29.24	15.30	2.824	13.66	115-120	7.481	942.6
125.0	22.86	11.29	3.279	11.75	24.50	13.11	3.006	11.66	120-125	6.093	948.7
130.0	18.67	9.384	3.370	9.930	20.22	11.02	3.006	9.748	125-130	4.856	953.6
135.0	15.03	7.379	3.370	7.835	16.49	8.837	3.097	7.652	130-135	3.751	957.3
140.0	11.57	5.739	3.370	6.286	12.93	7.015	3.279	5.830	135-140	2.794	960.1
145.0	0	0	0	0	0	0	0	0	140-145	0	960.1
150.0	0	0	0	0	0	0	0	0	145-150	0	960.1
155.0	0	0	0	0	0	0	0	0	150-155	0	960.1
160.0	0	0	0	0	0	0	0	0	155-160	0	960.1
165.0	0	0	0	0	0	0	0	0	160-165	0	960.1
170.0	0	0	0	0	0	0	0	0	165-170	0	960.1
175.0	0	0	0	0	0	0	0	0	170-175	0	960.1
180.0	0	0	0	0	0	0	0	0	175-180	0	960.1
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

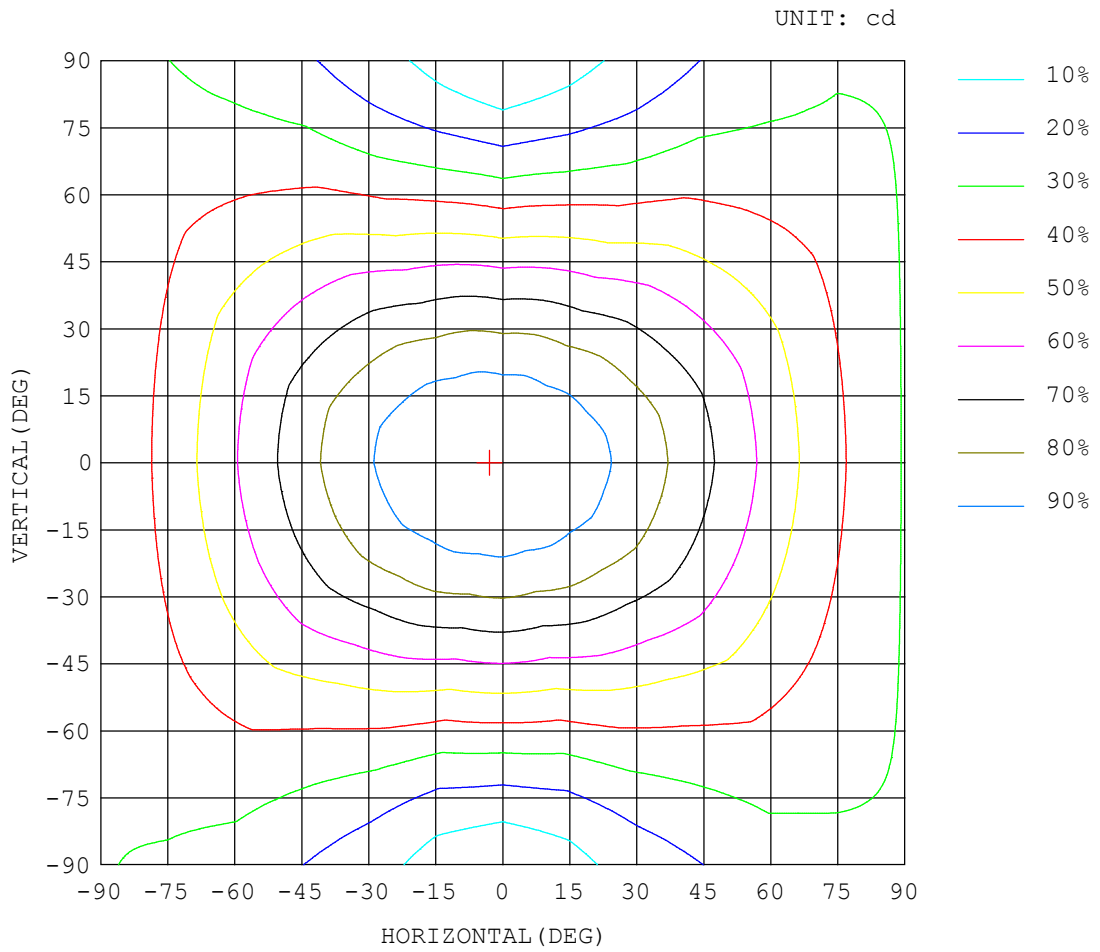
Test System:LSG-1600
Temperature:25.4DEG
Operators:REGAIP DASTAN
Test Date:03-09-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
Humidity:52.0%
Test Distance:9.545 m
Remarks: LLB33 BT60 CW 120D 14.4W 220V AC II

ISOCANDELA DIAGRAM

Report number: 2016000069

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLB33 BT60 CW 120D 14.4W 220V AC IP44	DTYPE: LED LINE BOLD	WEIGHT: ---
SPECIFICATION: LED LINE BOLD 33	DIMENSION: 1010x45x33mm	SERIAL No.:



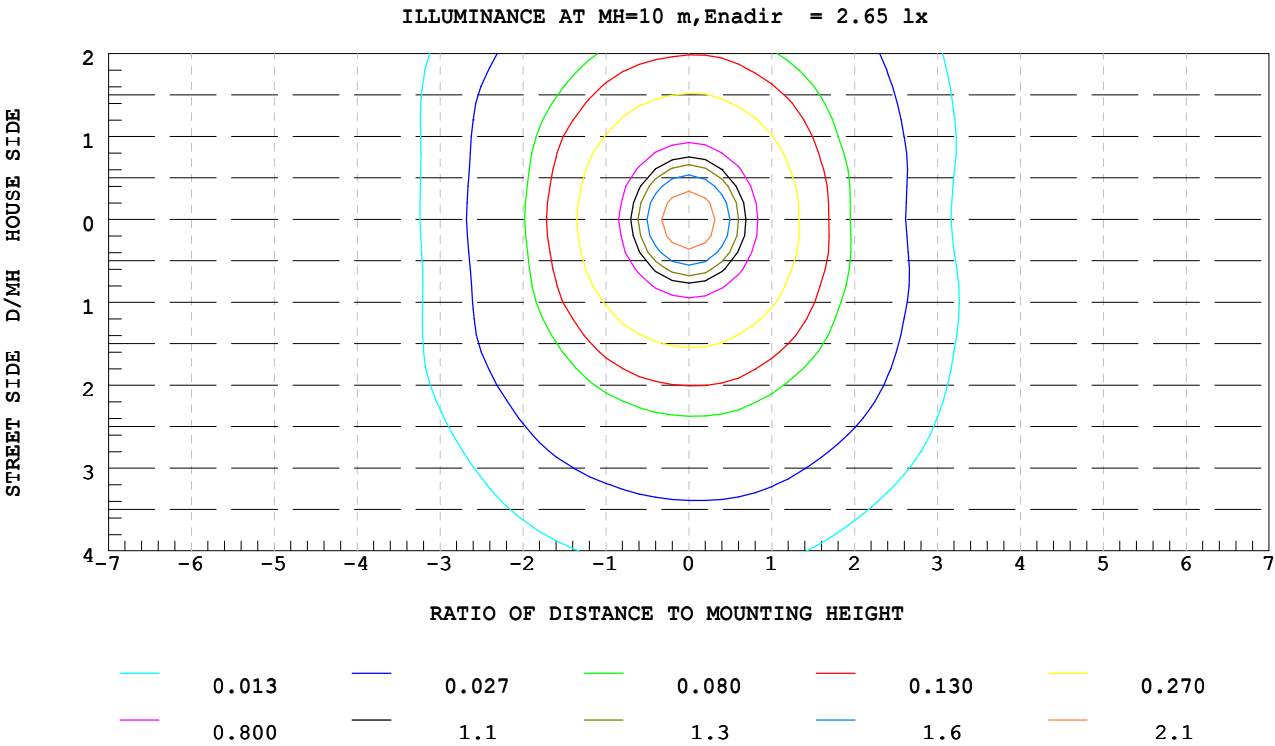
Test System: LSG-1600
Temperature: 25.4 DEG
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Test Date: 03-09-2016

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ISOLUX DIAGRAM

Report number: 2016000069

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NAME: LLB33 BT60 CW 120D 14.4W 220V AC IP44	DTYPE:LED LINE BOLD	WEIGHT:---
SPECIFICATION:LED LINE BOLD 33	DIMENSION: 1010x45x33mm	SERIAL No.:



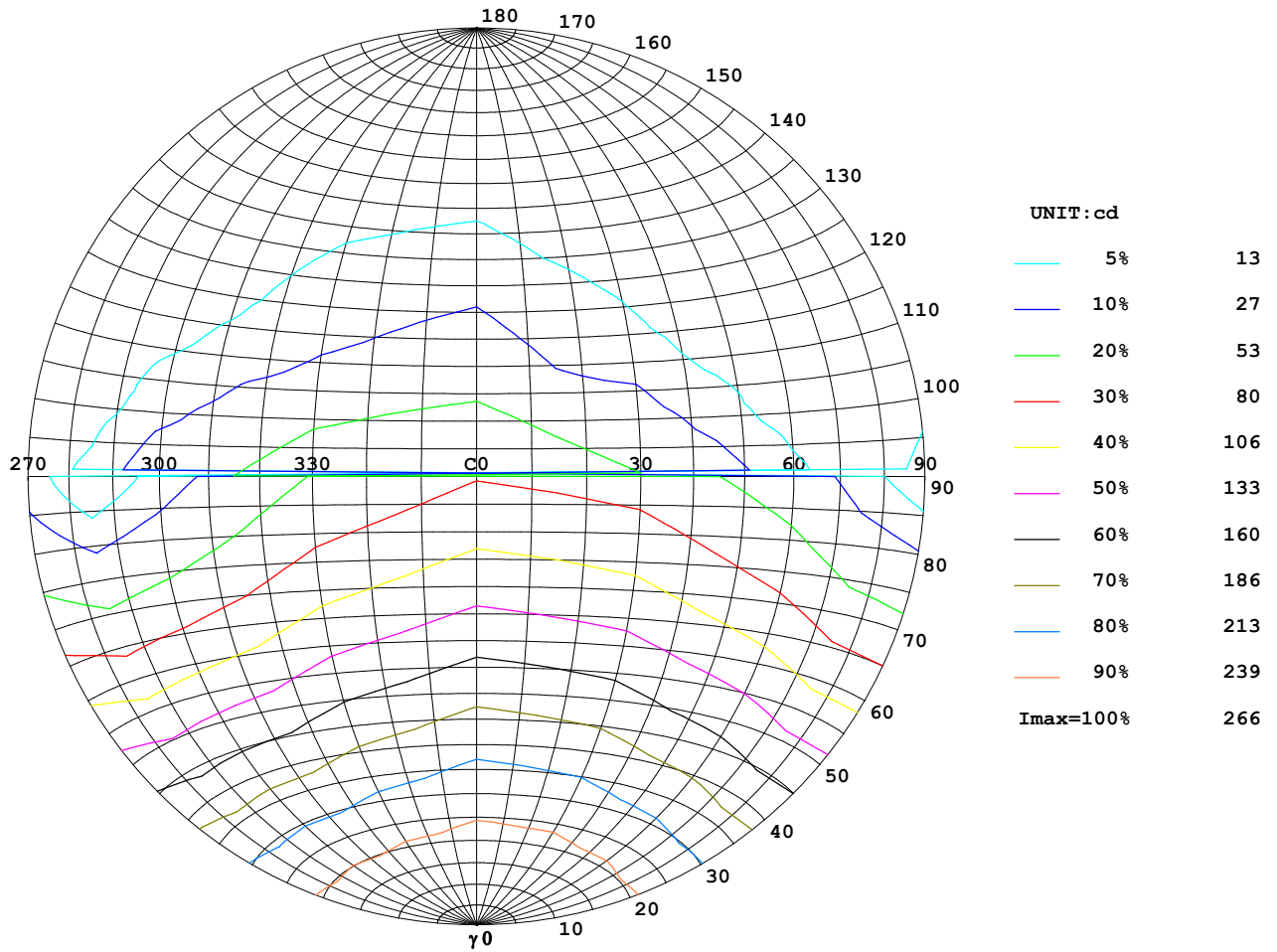
Test System:LSG-1600
Temperature:25.4DEG
Operators:REGAIP DASTAN
Test Date:03-09-2016

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NAME: LLB33 BT60 CW 120D 14.4W 220V AC IP44	DTYPE: LED LINE BOLD	WEIGHT: ---
SPECIFICATION: LED LINE BOLD 33	DIMENSION: 1010x45x33mm	SERIAL No.:



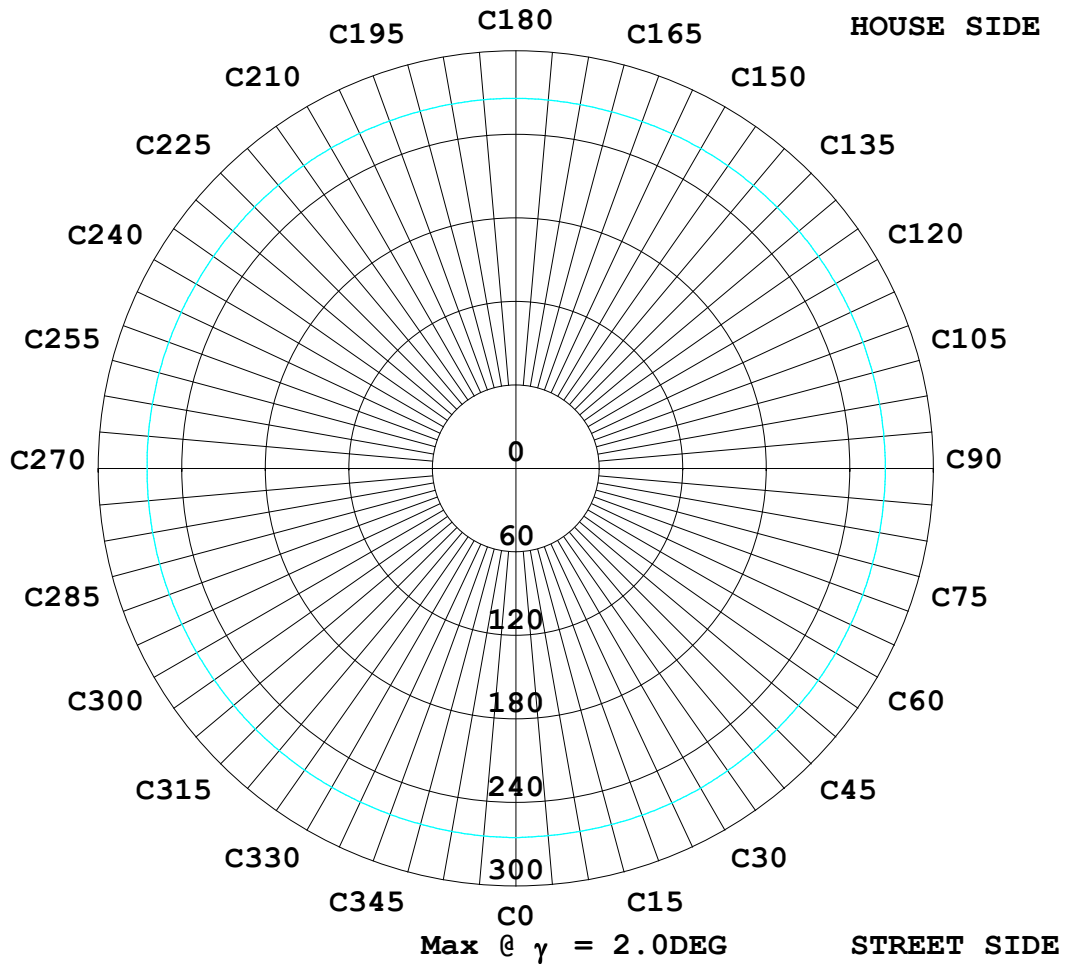
Test System: LSG-1600
Temperature: 25.4 DEG
Operators: REGAIP DASTAN
Test Date: 03-09-2016

Test Set: 2.0 deg/s C-Gamma (TYPE C)
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MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLB33 BT60 CW 120D 14.4W 220V AC IP44	DTYPE: LED LINE BOLD	WEIGHT: ---
SPECIFICATION: LED LINE BOLD 33	DIMENSION: 1010x45x33mm	SERIAL No.:



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

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 Humidity: 52.0%
 Test Distance: 9.545 m
 Remarks: LLB33 BT60 CW 120D 14.4W 220V AC II

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 2016000069

MANUFACTURER: FIBERLI				Address:PSL ELEKTRONIK ANTALYA			
NAME: LLB33 BT60 CW 120D 14.4W 220V AC IP44				DTYPE:LED LINE BOLD		WEIGHT:---	
SPECIFICATION:LED LINE BOLD 33				DIMENSION: 1010x45x33mm		SERIAL No.:	

UNIT: cd

γ (DEG)	C (DEG)														
	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210
0.0	266	265	266	266	266	265	265	265	265	265	265	265	266	265	266
5.0	264	263	264	264	264	264	264	264	265	265	265	265	266	266	265
10.0	259	259	260	259	259	259	260	260	261	261	263	263	264	263	262
15.0	254	253	253	252	252	251	252	252	255	255	258	258	260	259	257
20.0	247	245	245	243	242	240	242	242	245	247	251	252	254	253	250
25.0	238	236	236	231	230	227	229	229	234	236	242	244	246	246	241
30.0	228	226	225	219	216	212	214	214	220	224	231	234	237	237	231
35.0	217	215	212	205	201	195	197	197	204	210	219	223	227	226	218
40.0	205	202	199	190	184	177	179	178	187	194	205	210	215	214	205
45.0	193	189	185	174	167	158	159	159	170	178	191	197	202	201	191
50.0	179	175	170	158	150	139	139	140	152	162	176	182	187	187	176
55.0	165	160	155	142	133	120	119	120	134	145	160	167	173	172	161
60.0	151	146	141	127	116	101	99.3	101	116	129	145	153	158	157	146
65.0	137	132	126	112	99.5	82.6	79.6	81.9	99.4	113	130	138	143	142	131
70.0	123	119	113	97.8	84.4	65.5	60.7	64.5	83.8	98.8	116	124	129	128	117
75.0	111	106	101	85.0	70.5	50.2	43.2	48.7	69.6	85.7	103	111	115	115	103
80.0	99.3	94.5	88.8	73.4	58.2	36.8	27.6	35.0	57.2	73.8	91.1	98.4	103	102	91.3
85.0	88.3	83.7	78.0	62.8	47.6	26.1	14.4	24.2	46.5	63.1	80.0	87.1	91.5	90.8	79.9
90.0	78.1	73.5	68.0	53.2	38.6	18.1	4.28	16.5	37.7	53.6	69.9	76.7	80.9	80.0	69.6
95.0	68.5	64.1	58.7	44.8	30.8	12.5	3.55	11.3	30.1	45.1	60.4	66.9	70.8	70.1	60.1
100.0	59.4	55.3	50.3	36.8	20.9	8.47	3.46	7.83	20.5	37.4	52.1	58.1	61.6	60.9	51.5
105.0	49.1	44.6	33.3	26.9	17.6	6.46	3.37	6.10	17.5	27.4	38.6	47.8	52.0	50.4	34.9
110.0	38.6	31.7	27.7	20.2	12.5	5.01	3.27	4.73	12.7	21.6	29.2	32.8	40.3	34.9	28.3
115.0	32.7	27.9	23.4	16.0	9.93	3.82	3.27	3.64	10.2	16.5	24.6	28.9	34.5	31.2	24.0
120.0	27.5	23.9	20.0	13.1	8.65	3.18	3.37	3.00	8.83	13.6	21.0	25.3	29.2	27.1	20.5
125.0	22.8	20.2	17.1	11.2	7.01	3.00	3.27	3.00	7.19	11.7	18.1	21.5	24.5	23.0	17.7
130.0	18.6	16.6	14.3	9.38	5.73	3.09	3.37	3.09	5.92	9.93	15.2	18.1	20.2	19.2	14.9
135.0	15.0	13.4	11.4	7.37	4.46	3.18	3.37	3.09	4.73	7.83	12.4	14.8	16.4	15.6	12.2
140.0	11.5	10.4	8.83	5.73	3.64	3.37	3.37	3.18	3.73	6.28	9.74	11.5	12.9	12.2	9.74
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:25.4DEG
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 BT60 CW 120D 14.4W 220V AC II

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 2016000069

MANUFACTURER: FIBERLI				Address:PSL ELEKTRONIK ANTALYA			
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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	266	266	265	265	265	265	265	265	265
5.0	265	264	264	263	263	263	263	263	263
10.0	262	260	260	258	258	257	258	258	259
15.0	256	253	252	249	250	249	251	251	253
20.0	248	243	242	238	240	239	242	243	246
25.0	238	231	229	225	226	226	231	233	237
30.0	226	217	214	209	211	211	218	221	227
35.0	212	202	198	192	194	196	204	209	216
40.0	197	185	180	173	176	179	189	196	204
45.0	182	167	161	154	158	161	174	181	191
50.0	166	150	142	134	139	144	158	167	177
55.0	150	132	122	114	120	127	143	152	163
60.0	134	115	103	93.7	101	110	127	138	149
65.0	119	98.4	85.0	74.4	82.8	94.1	113	124	135
70.0	104	83.0	67.6	55.8	65.5	79.1	98.6	110	121
75.0	90.6	69.0	51.9	38.6	50.0	65.5	85.8	97.7	109
80.0	78.6	56.9	38.3	23.5	36.6	53.7	74.3	86.3	97.2
85.0	67.6	46.4	27.4	11.0	25.7	43.4	63.7	75.5	86.1
90.0	57.8	37.6	19.4	2.45	17.8	34.8	54.2	65.5	75.8
95.0	48.9	30.1	13.9	2.45	12.4	27.5	45.6	56.3	66.3
100.0	40.7	20.3	9.83	2.45	8.65	18.4	36.9	48.1	57.4
105.0	30.3	17.4	7.74	2.55	6.83	15.3	27.8	32.0	46.5
110.0	23.0	12.7	6.10	2.64	5.19	10.7	21.1	26.1	32.5
115.0	18.4	9.65	4.64	2.73	4.09	8.56	16.3	21.8	28.6
120.0	15.3	8.47	3.82	2.82	3.46	7.47	13.6	18.5	24.7
125.0	13.1	7.01	3.37	3.00	3.37	6.01	11.6	15.9	20.9
130.0	11.0	5.73	3.46	3.00	3.37	4.82	9.74	13.2	17.2
135.0	8.83	4.64	3.46	3.09	3.46	3.73	7.65	10.6	14.0
140.0	7.01	3.73	3.46	3.27	3.37	3.27	5.83	8.29	10.8
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:25.4DEG
Operators:REGAIP DASTAN
Test Date:03-09-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
Humidity:52.0%
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Remarks: LLB33 BT60 CW 120D 14.4W 220V AC II