

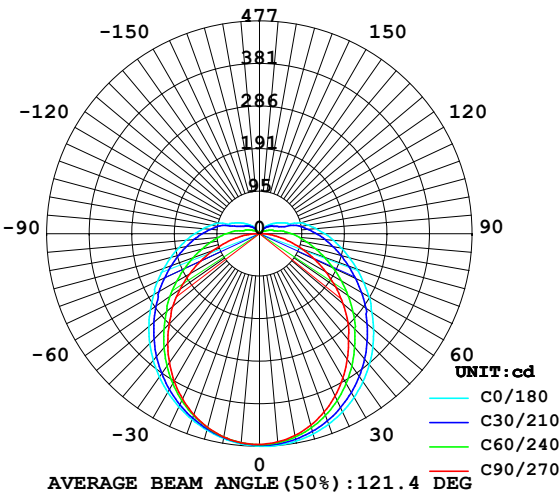
STREETLIGHT PHOTOMETRIC TEST REPORT

Report number: 2016000074

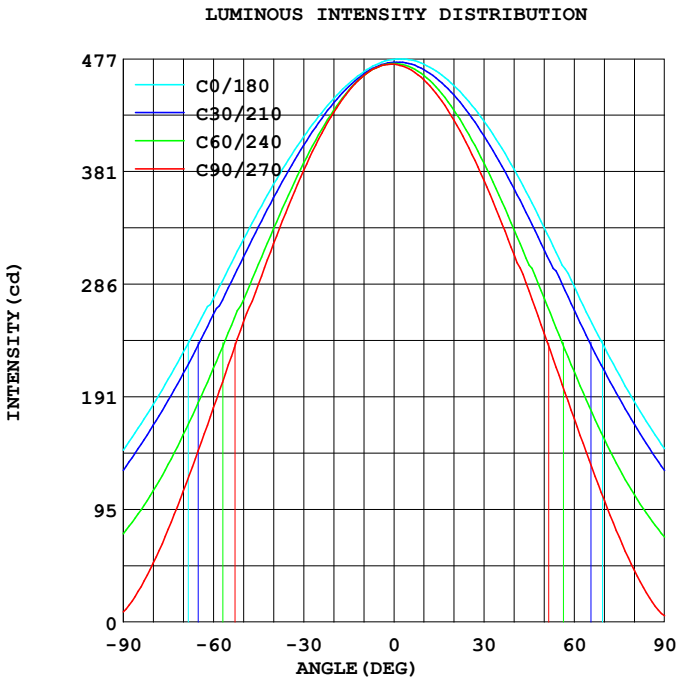
MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLB33 PT90 CW 120D 36 W 220V AC IP44	DTYPE:LED LINE BOLD	WEIGHT:---
SPECIFICATION:LED LINE BOLD 33	DIMENSION: 1010x45x33	SERIAL No.:----

TEST DATA:					
MODEL:	LLB33	Imax(cd) :	476.8	η street_up(%) :	5.4
NOMINAL POWER(W) :	36	MAXIMUM(C, γ):	180,1.0	η street_down(%) :	47.1
RATED VOLTAGE (V) :	220	TOTAL FLUX(lm) :	2070.1	η house_up(%)	5.4
NOMINAL FLUX(lm) :	2070.1	EFFICIENCY(%) :	100.0	η house_down(%) :	42.0
TEST FLUX(lm:	2070	η up(%) :	10.8		
LAMPS QUANTITY:	1	η down(%) :	89.2		

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANS



INTENSITY DISTRIBUTION DIAGRAM
IN C PLANS



Test:U:220.8V I:0.282A P:36.54W PF:0.587

Test System:LSG-1600
Temperature:25.6DEG
Operators:REGAIP DASTAN
Test Date:03-09-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
Humidity:53.0%
Test Distance:9.545 m
Remarks: LLB33 PT90 CW 120D 36 W 220V IP44D

ZONAL FLUX DIAGRAM

Report number: 2016000074

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLB33 PT90 CW 120D 36 W 220V AC IP44	DTYPE:LED LINE BOLD	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	473.0	470.1	470.2	470.7	476.3	471.7	468.4	468.0	0- 5	11.27	11.27
10.0	465.9	462.5	462.7	464.9	472.4	465.7	459.1	459.6	5- 10	33.36	44.64
15.0	455.8	450.7	449.6	454.2	465.0	455.1	444.5	446.6	10- 15	54.18	98.82
20.0	443.1	434.9	431.4	439.2	454.3	440.8	425.0	430.0	15- 20	73.01	171.8
25.0	428.1	416.0	408.8	420.4	440.7	422.8	401.4	410.1	20- 25	89.26	261.1
30.0	410.8	394.2	382.1	397.9	424.1	401.5	373.9	387.3	25- 30	102.4	363.5
35.0	391.6	370.0	352.3	372.6	404.9	377.9	343.4	362.5	30- 35	112.2	475.8
40.0	370.6	344.2	320.2	345.4	383.4	352.1	311.0	336.2	35- 40	118.6	594.4
45.0	347.8	317.1	285.9	316.5	359.6	324.8	280.1	308.8	40- 45	121.5	715.9
50.0	323.7	292.8	253.9	290.2	333.9	296.7	244.4	281.0	45- 50	121.2	837.2
55.0	298.9	264.8	217.8	260.2	307.5	268.4	208.5	256.5	50- 55	118.0	955.3
60.0	273.6	236.9	181.1	230.7	284.1	243.3	172.2	228.9	55- 60	112.1	1067
65.0	252.0	210.0	145.2	202.5	257.3	215.7	136.8	202.1	60- 65	104.0	1171
70.0	228.4	184.6	110.7	176.1	232.9	189.8	103.1	177.0	65- 70	94.28	1266
75.0	205.5	161.2	78.53	152.1	209.0	166.2	71.61	153.6	70- 75	83.74	1349
80.0	183.9	139.8	49.74	130.5	186.4	144.4	43.64	132.3	75- 80	72.98	1422
85.0	164.1	120.7	25.78	111.2	165.9	124.8	20.59	113.4	80- 85	62.59	1485
90.0	145.4	103.0	8.564	93.93	146.7	106.8	5.284	96.20	85- 90	53.00	1538
95.0	127.5	86.82	4.282	78.26	128.1	90.19	2.459	80.62	90- 95	44.51	1583
100.0	111.1	72.52	3.826	64.23	111.5	75.89	2.642	64.86	95-100	36.88	1619
105.0	92.38	50.74	3.644	44.55	94.38	53.66	2.824	46.46	100-105	29.05	1649
110.0	68.51	42.00	3.644	37.90	68.96	43.18	2.915	38.17	105-110	20.22	1669
115.0	58.30	30.15	3.644	27.14	58.94	31.15	3.097	25.78	110-115	15.61	1684
120.0	48.83	23.23	3.735	20.22	49.74	24.87	3.188	20.95	115-120	12.34	1697
125.0	40.36	19.77	3.735	17.31	41.18	21.22	3.370	18.03	120-125	9.953	1707
130.0	32.79	16.49	3.826	14.30	33.70	17.76	3.553	14.85	125-130	7.829	1715
135.0	26.14	12.57	3.826	10.75	26.96	13.75	3.644	11.29	130-135	5.933	1720
140.0	19.40	9.748	3.917	8.017	20.49	10.38	3.735	8.472	135-140	4.275	2070
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	

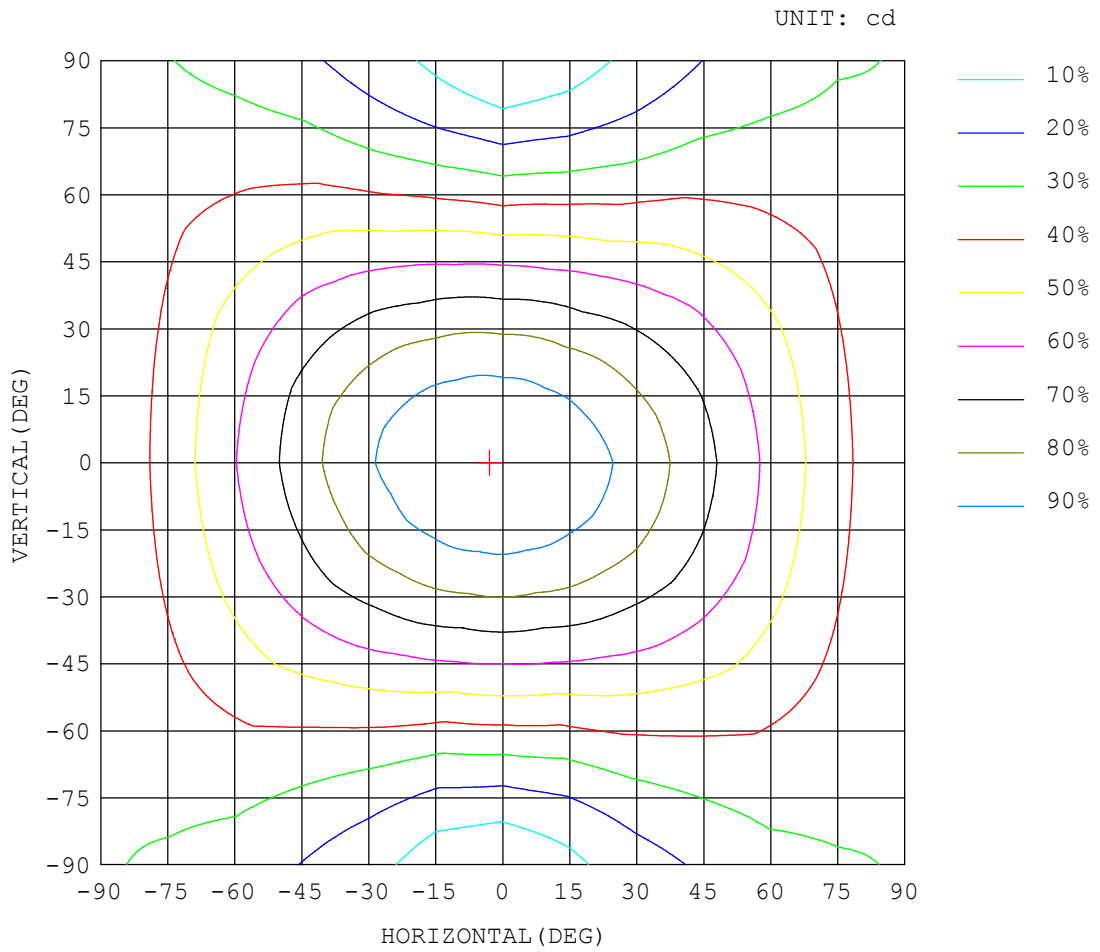
Test System:LSG-1600
Temperature:25.6DEG
Operators:REGAIP DASTAN
Test Date:03-09-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
Humidity:53.0%
Test Distance:9.545 m
Remarks: LLB33 PT90 CW 120D 36 W 220V IP44D

ISOCANDELA DIAGRAM

Report number: 2016000074

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLB33 PT90 CW 120D 36 W 220V AC IP44D	TYPE:LED LINE BOLD	WEIGHT:---
SPECIFICATION:LED LINE BOLD 33	DIMENSION: 1010x45x33	SERIAL No.:----



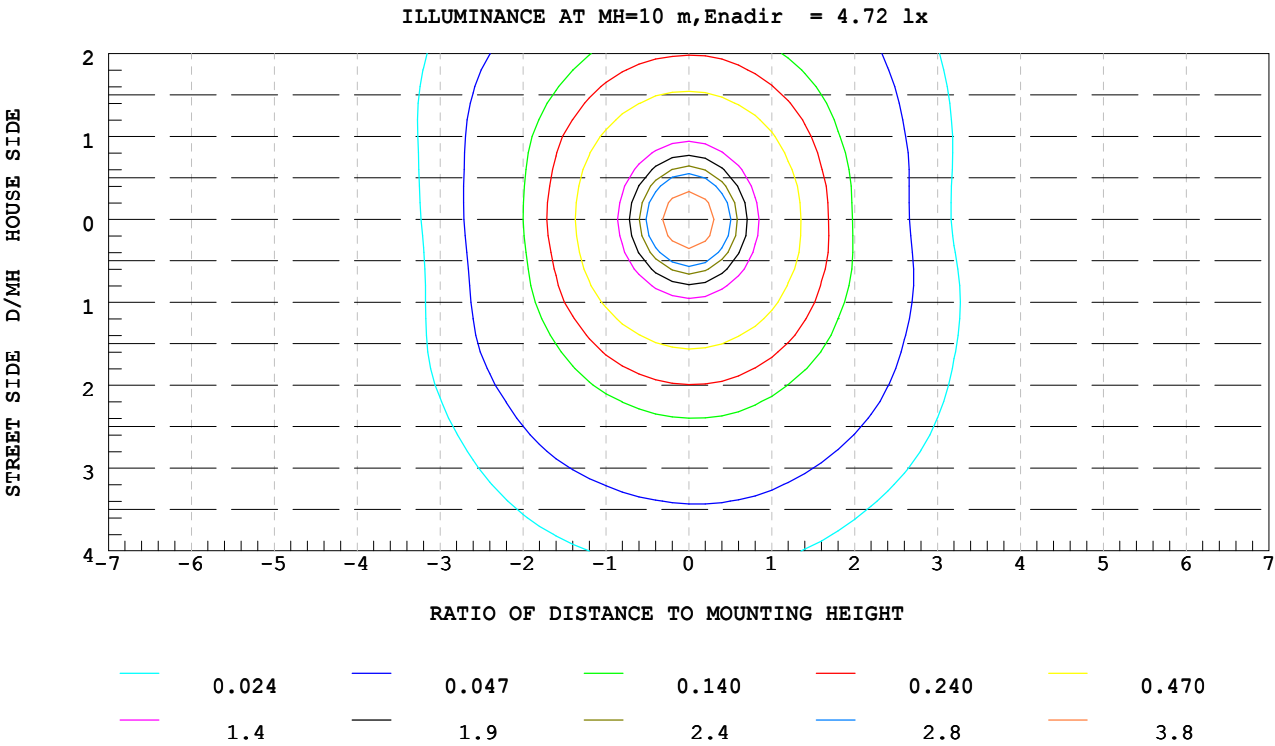
Test System:LSG-1600
Temperature:25.6DEG
Operators:REGAIP DASTAN
Test Date:03-09-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
Humidity:53.0%
Test Distance:9.545 m
Remarks: LLB33 PT90 CW 120D 36 W 220V IP44D

ISOLUX DIAGRAM

Report number: 2016000074

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLB33 PT90 CW 120D 36 W 220V AC IP44D	TYPE:LED LINE BOLD	WEIGHT:---
SPECIFICATION:LED LINE BOLD 33	DIMENSION: 1010x45x33	SERIAL No.:----



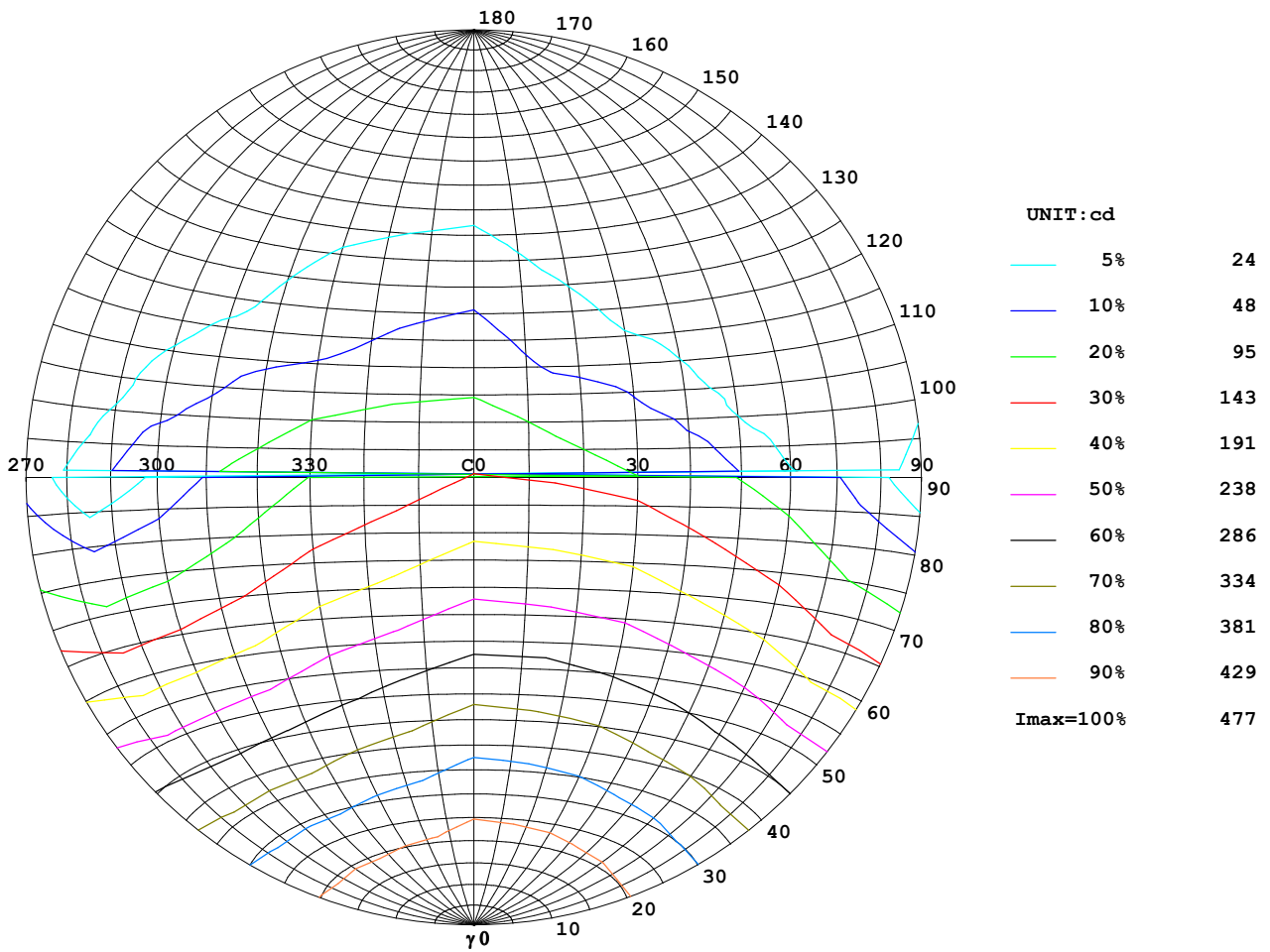
Test System:LSG-1600
Temperature:25.6DEG
Operators:REGAIP DASTAN
Test Date:03-09-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
Humidity:53.0%
Test Distance:9.545 m
Remarks: LLB33 PT90 CW 120D 36 W 220V IP44D

ISOCANDELA DIAGRAM

Report number: 2016000074

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLB33 PT90 CW 120D 36 W 220V AC IP44	DTYPE:LED LINE BOLD	WEIGHT:---
SPECIFICATION:LED LINE BOLD 33	DIMENSION: 1010x45x33	SERIAL No.:----



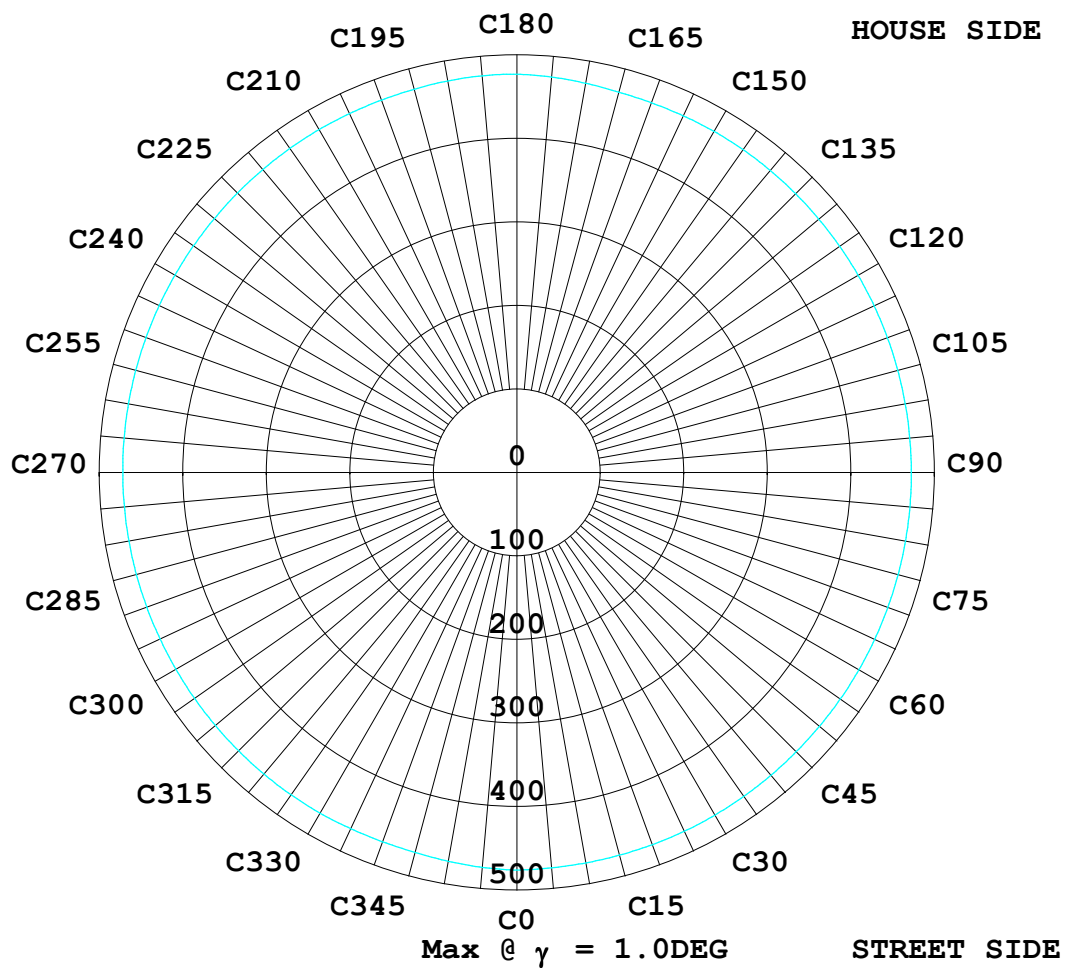
Test System:LSG-1600
Temperature:25.6DEG
Operators:REGAIP DASTAN
Test Date:03-09-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
Humidity:53.0%
Test Distance:9.545 m
Remarks: LLB33 PT90 CW 120D 36 W 220V IP44D

ISOCANDELA DIAGRAM

Report number: 2016000074

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLB33 PT90 CW 120D 36 W 220V AC IP44	DTYPE: LED LINE BOLD	WEIGHT: ---
SPECIFICATION: LED LINE BOLD 33	DIMENSION: 1010x45x33	SERIAL No.: ----



Test System: LSG-1600
 Temperature: 25.6DEG
 Operators: REGAIP DASTAN
 Test Date: 03-09-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity: 53.0%
 Test Distance: 9.545 m
 Remarks: LLB33 PT90 CW 120D 36 W 220V IP44D

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 2016000074

MANUFACTURER: FIBERLI				Address:PSL ELEKTRONIK ANTALYA			
NAME: LLB33 PT90 CW 120D 36 W 220V AC IP44				DTYPE:LED LINE BOLD		WEIGHT:---	
SPECIFICATION:LED LINE BOLD 33				DIMENSION: 1010x45x33		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	476	475	474	473	473	473	472	472	472	472	472	471	476	475	474
5.0	473	471	471	470	470	470	470	470	471	471	471	471	476	475	473
10.0	466	464	464	463	463	462	463	463	464	465	467	466	472	470	468
15.0	456	454	453	451	450	448	450	450	453	454	458	458	465	463	459
20.0	443	441	440	435	433	430	431	431	436	439	445	447	454	452	446
25.0	428	426	423	416	413	408	409	409	416	420	429	432	441	438	430
30.0	411	408	404	394	388	381	382	382	391	398	409	415	424	421	412
35.0	392	388	382	370	362	352	352	352	363	373	387	394	405	402	390
40.0	371	366	359	344	333	321	320	320	333	345	363	372	383	380	367
45.0	348	343	335	317	303	291	286	290	301	317	337	348	360	356	342
50.0	324	319	309	293	272	256	254	254	269	290	309	322	334	331	315
55.0	299	297	283	265	245	222	218	218	240	260	282	299	308	305	292
60.0	274	271	260	237	215	188	181	183	207	231	258	272	284	278	264
65.0	252	246	235	210	186	155	145	148	177	203	231	245	257	255	237
70.0	228	222	211	185	159	124	111	116	148	176	206	221	233	231	213
75.0	206	199	188	161	133	96.3	78.5	85.7	122	152	183	198	209	207	189
80.0	184	178	167	140	111	71.9	49.7	59.9	98.6	131	161	176	186	184	167
85.0	164	158	147	121	91.5	52.1	25.7	39.6	79.3	111	141	156	166	164	147
90.0	145	139	128	103	74.7	36.9	8.56	25.3	63.0	93.9	123	137	147	145	128
95.0	128	122	111	86.8	60.0	25.7	4.28	16.1	49.2	78.2	106	119	128	126	110
100.0	111	105	95.6	72.5	39.9	18.3	3.82	10.9	33.8	64.2	90.6	103	112	110	94.7
105.0	92.3	85.4	68.4	50.7	32.7	12.6	3.64	7.47	26.4	44.5	68.5	84.5	94.3	91.9	72.4
110.0	68.5	56.2	48.9	42.0	25.4	9.74	3.64	5.01	19.7	37.9	51.2	53.0	68.9	58.9	47.2
115.0	58.3	50.2	40.5	30.1	18.8	6.92	3.64	3.73	15.9	27.1	38.7	46.5	58.9	53.0	39.9
120.0	48.8	43.3	35.1	23.2	15.1	4.91	3.73	3.18	12.6	20.2	32.3	40.9	49.7	46.0	34.5
125.0	40.3	36.4	30.1	19.7	12.0	3.64	3.73	3.37	9.38	17.3	27.9	34.9	41.1	38.9	29.8
130.0	32.7	29.9	25.2	16.4	9.29	3.55	3.82	3.46	7.01	14.3	23.4	29.0	33.7	32.1	24.9
135.0	26.1	23.8	20.0	12.5	7.10	3.73	3.82	3.64	5.28	10.7	18.7	23.5	26.9	25.7	20.1
140.0	19.4	18.0	14.8	9.74	5.10	3.91	3.91	3.82	4.19	8.01	14.1	17.8	20.4	19.4	15.2
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:25.6DEG
Operators:REGAIP DASTAN
Test Date:03-09-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
Humidity:53.0%
Test Distance:9.545 m
Remarks: LLB33 PT90 CW 120D 36 W 220V IP44D

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 2016000074

MANUFACTURER: FIBERLI		Address:PSL ELEKTRONIK ANTALYA	
NAME: LLB33 PT90 CW 120D 36 W 220V AC IP44		DTYPE:LED LINE BOLD	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	473	473	473	472	472	472	472	472	471
5.0	472	470	470	468	468	468	468	468	468
10.0	466	463	462	459	459	458	460	460	461
15.0	455	450	448	445	445	444	447	448	451
20.0	441	433	430	425	426	425	430	433	437
25.0	423	413	408	401	403	403	410	415	422
30.0	402	389	381	374	376	378	387	395	404
35.0	378	361	352	343	346	349	363	373	384
40.0	352	332	321	311	314	320	336	349	363
45.0	325	302	288	280	281	292	309	325	340
50.0	297	274	258	244	250	261	281	299	316
55.0	268	243	224	209	216	230	257	276	291
60.0	243	212	190	172	181	199	229	250	268
65.0	216	182	157	137	148	169	202	225	245
70.0	190	155	126	103	117	142	177	201	221
75.0	166	130	97.5	71.6	87.5	117	154	178	199
80.0	144	108	72.9	43.6	62.4	94.8	132	157	177
85.0	125	88.6	53.2	20.5	42.1	76.0	113	138	158
90.0	107	71.9	38.0	5.28	27.6	60.1	96.2	120	139
95.0	90.1	57.5	26.9	2.45	18.0	46.9	80.6	103	121
100.0	75.8	37.1	19.0	2.64	12.1	29.9	64.8	87.6	105
105.0	53.6	31.5	13.7	2.82	8.74	24.0	46.4	62.9	85.0
110.0	43.1	24.2	10.6	2.91	6.10	17.4	38.1	44.0	54.3
115.0	31.1	17.0	7.37	3.09	4.55	13.6	25.7	35.9	48.1
120.0	24.8	13.6	5.28	3.18	3.91	11.0	20.9	30.5	42.0
125.0	21.2	11.2	4.09	3.37	3.82	8.29	18.0	26.3	35.6
130.0	17.7	8.65	4.00	3.55	3.91	6.46	14.8	21.6	29.4
135.0	13.7	6.55	4.00	3.64	3.91	4.73	11.2	17.4	23.7
140.0	10.3	4.82	4.09	3.73	4.00	3.82	8.47	13.0	17.7
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:25.6DEG
Operators:REGAIP DASTAN
Test Date:03-09-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
Humidity:53.0%
Test Distance:9.545 m
Remarks: LLB33 PT90 CW 120D 36 W 220V IP44D