

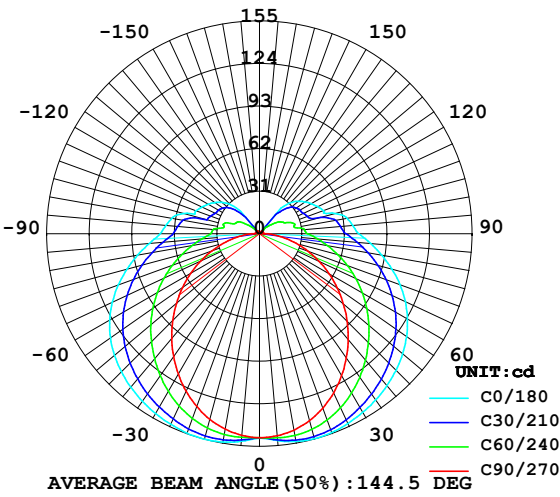
STREETLIGHT PHOTOMETRIC TEST REPORT

Report number: 2016000091

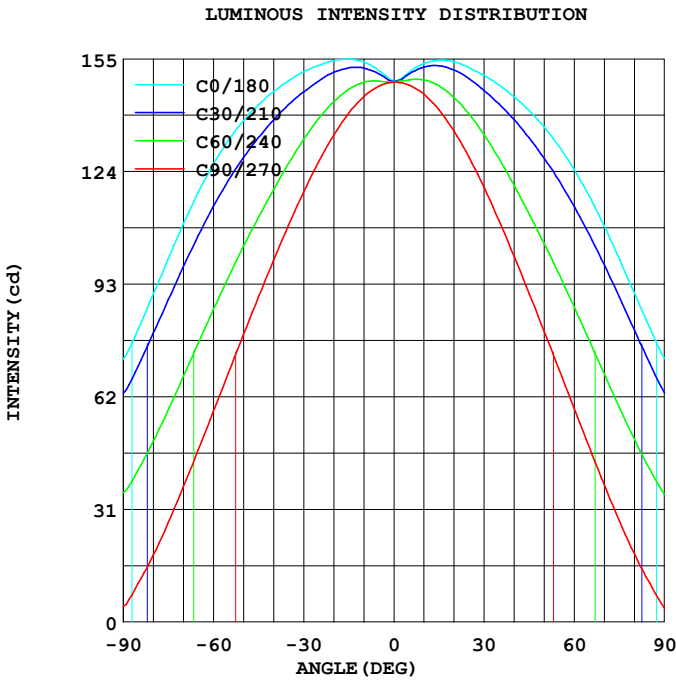
MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLKS BT45 CW 120D 10.8W 24V DC IP44D	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE KS	DIMENSION: 1005x25X20mm	SERIAL No.:

TEST DATA:					
MODEL:	LLKS	Imax (cd) :	154.7	$\eta$ street_up (%) :	9.1
NOMINAL POWER (W) :	10.8	MAXIMUM (C, $\gamma$ :	0,15.0	$\eta$ street_down (%) :	43.2
RATED VOLTAGE (V) :	24	TOTAL FLUX (lm) :	785.3	$\eta$ house_up (%) :	9.1
NOMINAL FLUX (lm) :	785.4	EFFICIENCY (%) :	100.0	$\eta$ house_down (%) :	38.6
TEST FLUX (lm:	785.3	$\eta$ up (%) :	18.2		
LAMPS QUANTITY:	1	$\eta$ down (%) :	81.8		

INTENSITY DISTRIBUTION DIAGRAM  
IN C PLANS



INTENSITY DISTRIBUTION DIAGRAM  
IN C PLANS



Test:U:24.00V I:0.113A P:10.80W PF:0.496

Test System:LSG-1600  
Temperature:25.3DEG  
Operators:REGAIP DASTAN  
Test Date:03-25-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)  
Humidity:53.0%  
Test Distance:9.545 m  
Remarks: LLKS BT45 CW 120D 10.8W 24V DC IP44

## ZONAL FLUX DIAGRAM

Report number: 2016000091

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLKS BT45 CW 120D 10.8W 24V DC IP44D	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE KS	DIMENSION: 1005x25X20mm	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total
5.0	151.6	149.7	147.2	149.5	151.0	149.8	147.5	149.6	0- 5	3.568	3.568
10.0	153.9	150.3	144.4	149.9	153.5	151.1	145.1	150.4	5- 10	10.72	14.29
15.0	154.7	149.4	139.8	148.6	154.4	150.7	140.8	149.7	10- 15	17.71	32.00
20.0	154.3	147.0	133.7	145.8	153.9	148.9	135.0	147.5	15- 20	24.26	56.27
25.0	152.9	143.4	126.4	141.9	152.4	145.7	127.8	144.1	20- 25	30.17	86.44
30.0	151.2	138.9	118.1	136.9	150.2	141.3	119.5	139.6	25- 30	35.29	121.7
35.0	148.7	133.9	109.0	131.0	147.5	136.2	110.3	134.2	30- 35	39.53	161.2
40.0	145.7	128.2	99.39	124.7	144.4	130.8	100.5	128.3	35- 40	42.84	204.1
45.0	142.1	122.0	89.37	117.9	140.5	124.6	90.28	121.9	40- 45	45.17	249.2
50.0	137.7	115.2	78.98	110.5	136.1	117.9	79.90	114.8	45- 50	46.48	295.7
55.0	132.3	107.7	68.42	102.6	130.7	110.6	69.33	107.1	50- 55	46.76	342.5
60.0	125.9	99.85	57.85	94.38	124.3	102.7	58.67	98.94	55- 60	46.00	388.5
65.0	118.1	91.28	47.37	85.73	117.1	94.47	48.10	90.28	60- 65	44.22	432.7
70.0	109.3	82.36	37.08	76.89	108.7	85.82	37.71	81.26	65- 70	41.51	474.2
75.0	99.85	73.34	27.33	67.96	99.76	76.80	27.78	72.06	70- 75	38.04	512.3
80.0	90.10	64.50	18.31	59.31	90.37	67.96	18.76	63.13	75- 80	34.02	546.3
85.0	80.35	56.30	10.56	51.29	81.08	59.58	10.84	54.66	80- 85	29.80	576.1
90.0	72.24	49.74	4.373	44.27	72.33	51.74	3.735	47.10	85- 90	25.65	601.8
95.0	68.51	47.64	3.188	42.45	68.33	48.83	2.642	44.82	90- 95	23.34	625.1
100.0	64.77	42.91	2.915	36.62	64.86	45.46	2.368	40.45	95-100	21.66	646.8
105.0	57.12	36.71	2.733	33.25	56.94	38.17	2.277	34.43	100-105	18.93	665.7
110.0	49.19	30.79	2.642	29.51	49.65	34.43	2.368	32.25	105-110	15.13	680.9
115.0	46.28	28.15	2.550	24.69	46.82	29.33	2.368	25.60	110-115	13.09	694.0
120.0	43.09	25.96	2.550	23.23	43.73	26.96	2.368	23.68	115-120	11.58	705.6
125.0	39.72	24.14	2.459	21.50	40.54	25.41	2.368	21.86	120-125	10.19	715.7
130.0	35.62	19.67	2.550	16.21	36.80	21.86	2.277	16.94	125-130	8.518	724.3
135.0	30.24	13.30	2.550	11.02	32.06	15.94	2.368	10.93	130-135	6.562	730.8
140.0	21.41	7.106	2.459	6.468	24.41	10.84	2.459	6.286	135-140	4.498	785.3
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	

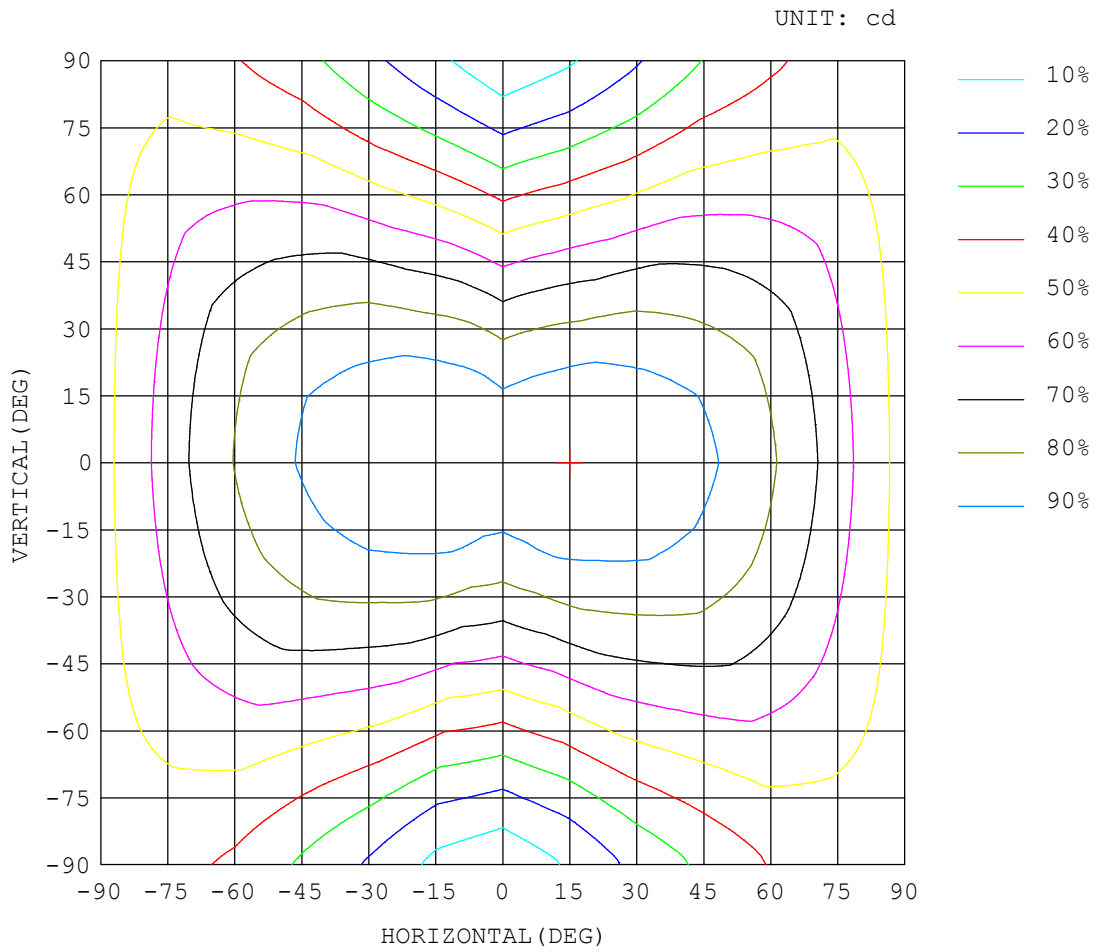
Test System:LSG-1600  
 Temperature:25.3DEG  
 Operators:REGAIP DASTAN  
 Test Date:03-25-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)  
 Humidity:53.0%  
 Test Distance:9.545 m  
 Remarks: LLKS BT45 CW 120D 10.8W 24V DC IP44

## ISOCANDELA DIAGRAM

Report number: 2016000091

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLKS BT45 CW 120D 10.8W 24V DC IP44D	TYPE: LED LINE	WEIGHT:
SPECIFICATION: LED LINE KS	DIMENSION: 1005x25x20mm	SERIAL No.:



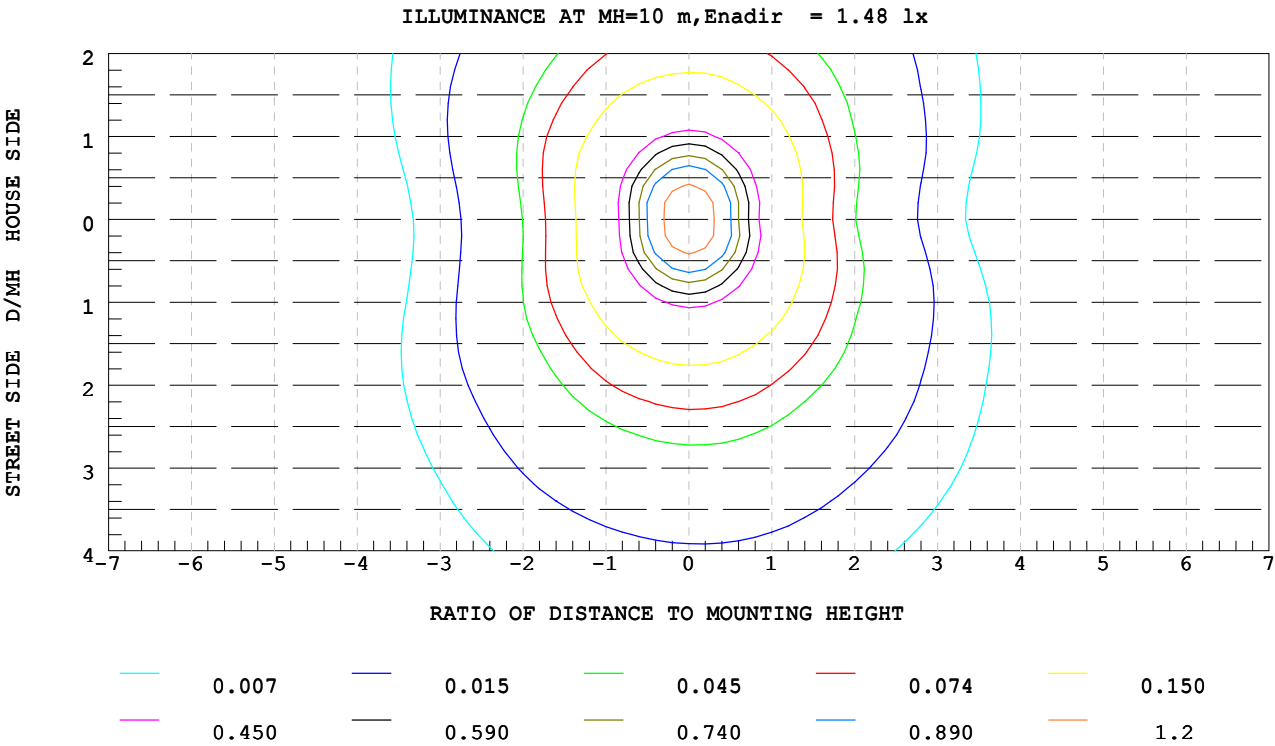
Test System: LSG-1600  
Temperature: 25.3 DEG  
Operators: REGAIP DASTAN  
Test Date: 03-25-2016

Test Set: 2.0 deg/s C-Gamma (TYPE C)  
Humidity: 53.0%  
Test Distance: 9.545 m  
Remarks: LLKS BT45 CW 120D 10.8W 24V DC IP44

ISOLUX DIAGRAM

Report number: 2016000091

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLKS BT45 CW 120D 10.8W 24V DC IP44D	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE KS	DIMENSION: 1005x25X20mm	SERIAL No.:



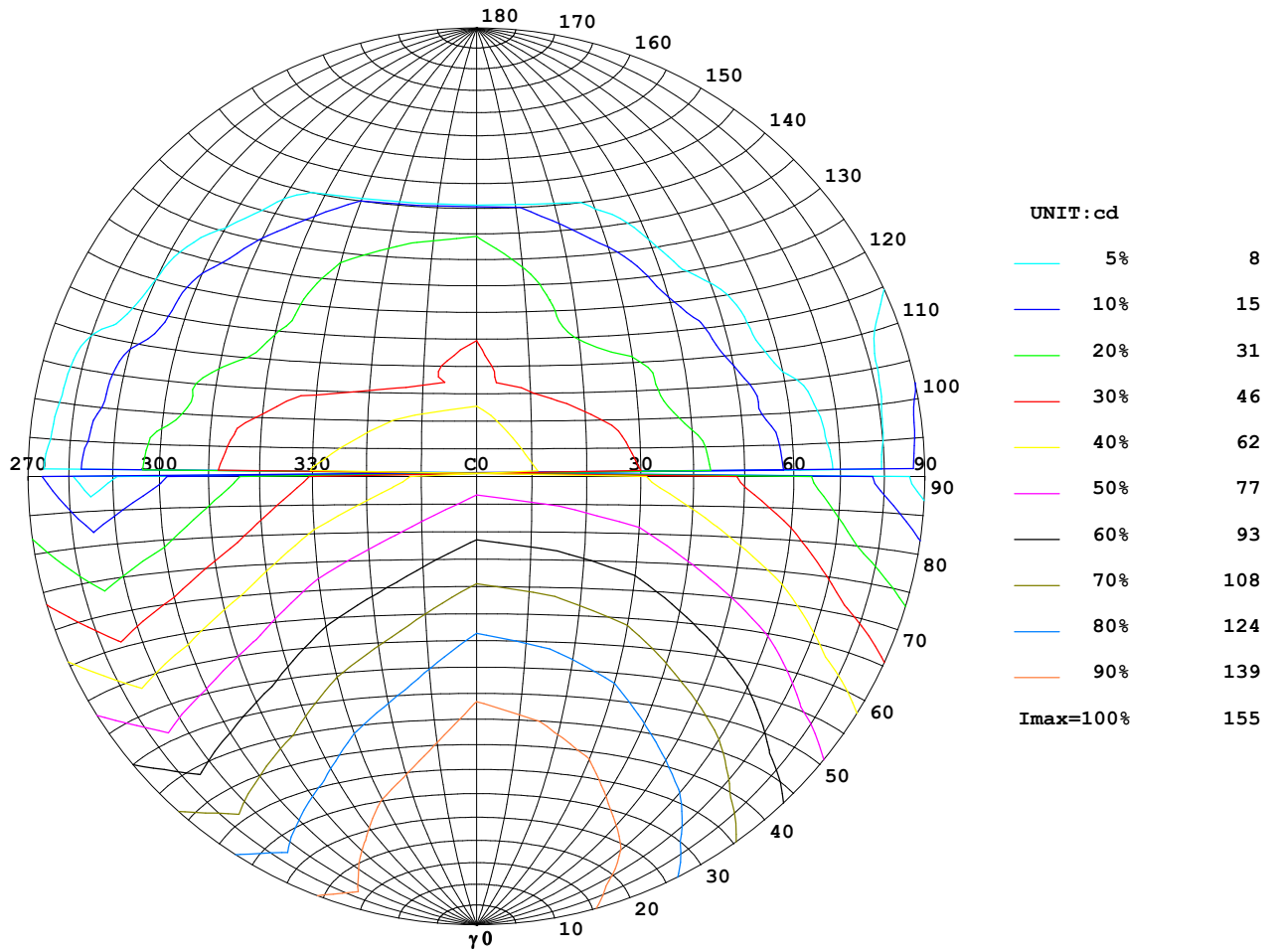
Test System:LSG-1600  
Temperature:25.3DEG  
Operators:REGAIP DASTAN  
Test Date:03-25-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)  
Humidity:53.0%  
Test Distance:9.545 m  
Remarks: LLKS BT45 CW 120D 10.8W 24V DC IP44

## ISOCANDELA DIAGRAM

Report number: 2016000091

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLKS BT45 CW 120D 10.8W 24V DC IP44D	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE KS	DIMENSION: 1005x25X20mm	SERIAL No.:



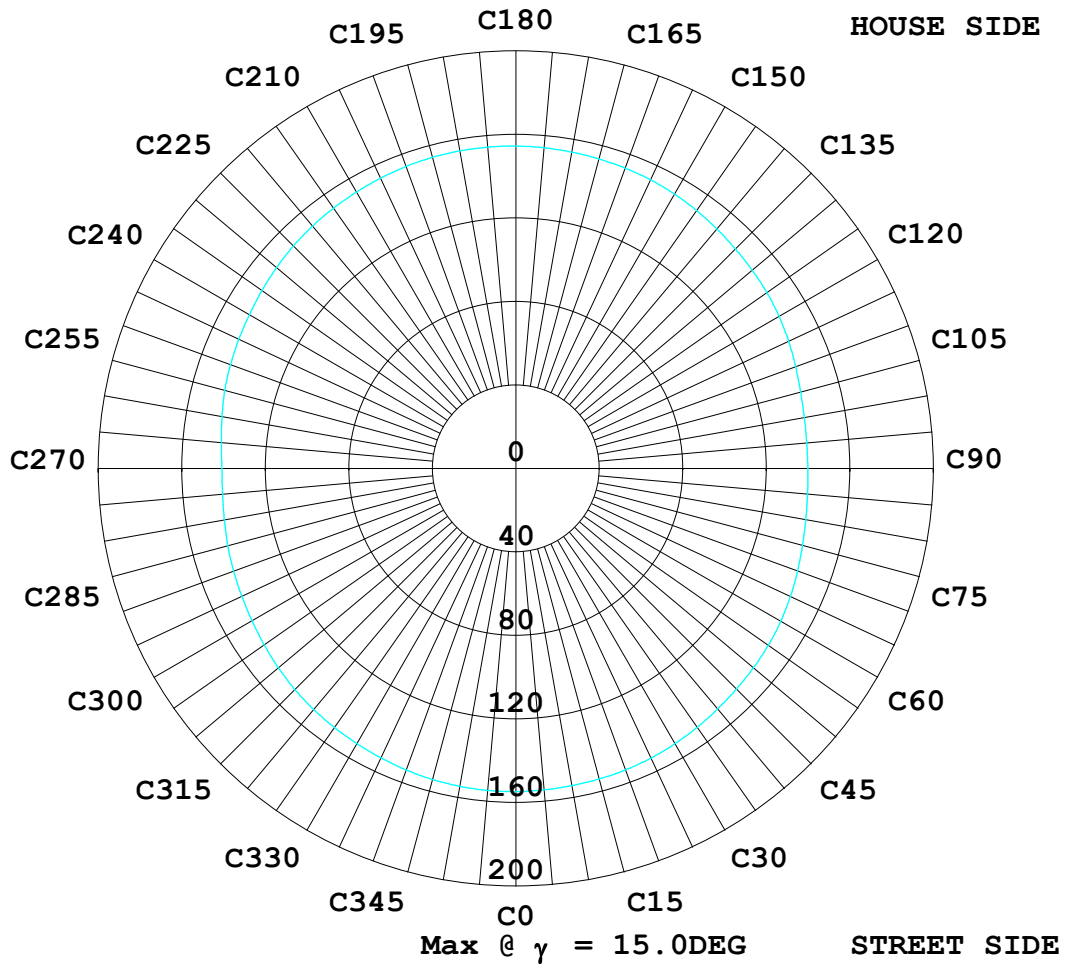
Test System:LSG-1600  
Temperature:25.3DEG  
Operators:REGAIP DASTAN  
Test Date:03-25-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)  
Humidity:53.0%  
Test Distance:9.545 m  
Remarks: LLKS BT45 CW 120D 10.8W 24V DC IP44

## ISOCANDELA DIAGRAM

Report number: 2016000091

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLKS BT45 CW 120D 10.8W 24V DC IP44D	TYPE: LED LINE	WEIGHT:
SPECIFICATION: LED LINE KS	DIMENSION: 1005x25x20mm	SERIAL No.:



Test System: LSG-1600  
 Temperature: 25.3DEG  
 Operators: REGAIP DASTAN  
 Test Date: 03-25-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)  
 Humidity: 53.0%  
 Test Distance: 9.545 m  
 Remarks: LLKS BT45 CW 120D 10.8W 24V DC IP44

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 2016000091

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLKS BT45 CW 120D 10.8W 24V DC IP44D	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE KS	DIMENSION: 1005x25X20mm	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	149	149	149	149	149	148	148	148	149	149	149	149	149	149	149
5.0	152	151	151	150	149	147	147	147	149	150	151	151	151	151	151
10.0	154	153	152	150	148	145	144	145	148	150	152	153	154	153	153
15.0	155	154	152	149	147	142	140	141	146	149	152	154	154	154	153
20.0	154	153	151	147	143	137	134	136	142	146	150	153	154	154	152
25.0	153	152	149	143	138	131	126	129	137	142	148	150	152	152	149
30.0	151	149	146	139	133	124	118	122	131	137	144	148	150	150	146
35.0	149	147	142	134	126	116	109	113	123	131	140	145	148	147	142
40.0	146	143	138	128	119	107	99.3	104	116	125	135	141	144	144	138
45.0	142	139	133	122	111	97.8	89.3	94.4	107	118	130	136	141	140	133
50.0	138	134	128	115	103	88.2	78.9	84.5	98.5	111	124	131	136	135	127
55.0	132	129	121	108	94.6	78.4	68.4	74.3	89.6	103	117	125	131	130	121
60.0	126	122	114	99.8	85.9	68.6	57.8	64.2	80.5	94.3	110	119	124	123	114
65.0	118	114	106	91.2	76.7	58.8	47.3	54.0	71.0	85.7	102	111	117	116	107
70.0	109	105	97.5	82.3	67.4	48.9	37.0	44.0	61.5	76.8	93.2	103	109	108	98.1
75.0	99.8	96.0	88.5	73.3	58.3	39.5	27.3	34.3	52.4	67.9	84.5	94.2	99.7	99.2	89.2
80.0	90.1	86.2	79.3	64.5	49.5	30.8	18.3	25.5	43.7	59.3	75.6	84.9	90.3	89.8	80.2
85.0	80.3	76.8	70.2	56.3	41.7	23.1	10.5	17.8	35.8	51.2	66.9	75.7	81.0	80.4	71.2
90.0	72.2	69.1	62.8	49.7	35.5	17.4	4.37	11.9	29.3	44.2	59.0	67.4	72.3	71.7	62.9
95.0	68.5	65.6	59.9	47.6	33.9	16.1	3.18	11.4	27.9	42.4	56.3	64.0	68.3	67.5	59.4
100.0	64.7	62.0	56.7	42.9	26.6	14.3	2.91	9.93	22.0	36.6	53.2	60.7	64.8	64.1	56.3
105.0	57.1	54.2	39.5	36.7	27.2	13.1	2.73	7.01	21.9	33.2	41.5	52.6	56.9	56.3	46.1
110.0	49.1	43.0	37.9	30.7	22.4	10.0	2.64	3.82	18.4	29.5	35.9	40.6	49.6	43.8	37.2
115.0	46.2	41.9	35.6	28.1	18.7	5.55	2.55	2.45	16.1	24.6	33.9	39.5	46.8	43.1	35.2
120.0	43.0	40.0	34.4	25.9	17.4	2.82	2.55	2.45	12.1	23.2	32.5	38.4	43.7	41.4	34.2
125.0	39.7	37.3	32.7	24.1	12.8	2.64	2.45	2.36	8.65	21.5	30.8	36.4	40.5	39.0	32.8
130.0	35.6	33.8	29.5	19.6	8.19	2.55	2.55	2.36	5.10	16.2	27.7	33.4	36.8	35.8	30.0
135.0	30.2	28.3	23.4	13.3	3.64	2.55	2.55	2.36	3.27	11.0	22.0	28.5	32.0	30.9	24.7
140.0	21.4	19.8	15.5	7.10	2.91	2.55	2.45	2.45	3.09	6.46	15.3	20.5	24.4	23.0	17.8
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:25.3DEG  
Operators:REGAIP DASTAN  
Test Date:03-25-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)  
Humidity:53.0%  
Test Distance:9.545 m  
Remarks: LLKS BT45 CW 120D 10.8W 24V DC IP44

## LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 2016000091

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLKS BT45 CW 120D 10.8W 24V DC IP44D	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE KS	DIMENSION: 1005x25X20mm	SERIAL No.:

UNIT: cd

C (DEG) γ (DEG)	225	240	255	270	285	300	315	330	345
0.0	149	149	148	148	148	149	149	149	149
5.0	150	149	148	148	148	149	150	151	151
10.0	151	149	147	145	146	148	150	152	153
15.0	151	147	144	141	143	146	150	152	154
20.0	149	144	140	135	138	142	148	151	154
25.0	146	140	134	128	132	137	144	148	152
30.0	141	134	128	120	125	131	140	145	150
35.0	136	127	120	110	117	125	134	141	147
40.0	131	120	111	101	108	117	128	137	144
45.0	125	112	102	90.2	98.5	108	122	131	140
50.0	118	104	92.8	79.9	88.8	99.9	115	126	135
55.0	111	95.5	82.9	69.3	78.7	91.0	107	119	130
60.0	103	86.6	72.9	58.6	68.5	81.8	98.9	112	123
65.0	94.4	77.4	63.0	48.1	58.2	72.3	90.2	103	115
70.0	85.8	68.1	53.0	37.7	48.1	62.8	81.2	94.6	107
75.0	76.8	58.9	43.2	27.7	38.2	53.4	72.0	85.4	97.2
80.0	67.9	50.2	34.3	18.7	28.9	44.5	63.1	76.2	87.6
85.0	59.5	42.0	26.1	10.8	20.6	36.5	54.6	67.2	78.0
90.0	51.7	34.9	19.1	3.73	13.7	29.5	47.1	59.3	69.5
95.0	48.8	33.0	17.6	2.64	12.6	28.0	44.8	56.3	65.8
100.0	45.4	26.3	16.3	2.36	11.2	22.1	40.4	53.2	62.4
105.0	38.1	26.7	14.8	2.27	8.92	22.2	34.4	42.0	54.6
110.0	34.4	24.3	11.8	2.36	5.28	18.6	32.2	34.9	41.4
115.0	29.3	19.5	7.47	2.36	3.64	16.2	25.6	32.9	40.2
120.0	26.9	17.5	4.64	2.36	3.46	12.3	23.6	31.4	38.9
125.0	25.4	13.3	3.73	2.36	3.00	8.01	21.8	29.8	36.7
130.0	21.8	9.38	3.46	2.27	2.55	4.64	16.9	26.6	33.4
135.0	15.9	5.73	2.91	2.36	3.00	3.64	10.9	20.4	28.2
140.0	10.8	3.91	2.73	2.45	2.55	3.46	6.28	13.3	19.6
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:25.3DEG  
Operators:REGAIP DASTAN  
Test Date:03-25-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)  
Humidity:53.0%  
Test Distance:9.545 m  
Remarks: LLKS BT45 CW 120D 10.8W 24V DC IP44