

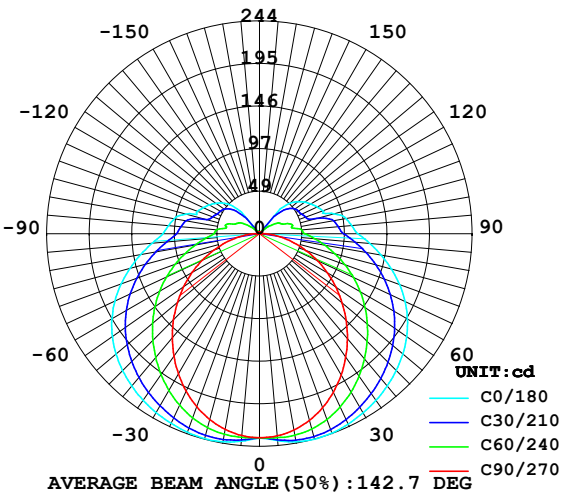
STREETLIGHT PHOTOMETRIC TEST REPORT

Report number: 2016000090

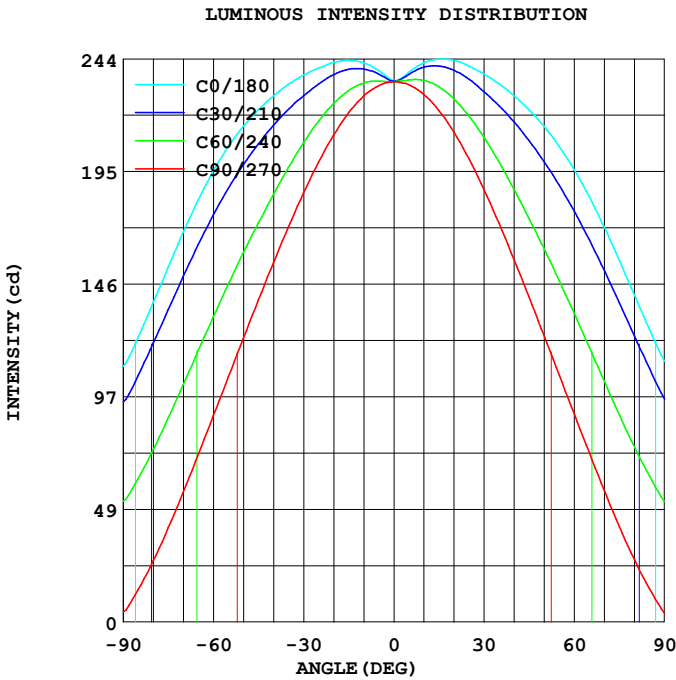
MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANNTALYA	
NAME: LLKS T180 CW 120D 14.4W 24V DC IP44D	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE KS	DIMENSION: 1005x25X20mm	SERIAL No.:

TEST DATA:					
MODEL:	LLKS	Imax (cd) :	243.5	η street_up (%) :	8.8
NOMINAL POWER (W) :	14.4	MAXIMUM (C, γ :	180,16.0	η street_down (%) :	43.2
RATED VOLTAGE (V) :	24	TOTAL FLUX (lm) :	1142	η house_up (%) :	8.9
NOMINAL FLUX (lm) :	1141.9	EFFICIENCY (%) :	100.0	η house_down (%) :	39.0
TEST FLUX (lm:	1142	η up (%) :	17.8		
LAMPS QUANTITY:	1	η down (%) :	82.2		

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANS



INTENSITY DISTRIBUTION DIAGRAM
IN C PLANS



Test:U:24.00V I:0.148A P:14.40W PF:0.532

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 T180 CW 120D 14.4W 24V DC IP44

ZONAL FLUX DIAGRAM

Report number: 2016000090

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANNTALYA	
NAME: LLKS T180 CW 120D 14.4W 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	238.5	235.5	231.9	235.6	237.7	235.6	232.3	235.5	0- 5	5.616	5.616
10.0	241.7	236.2	227.4	236.5	241.8	237.5	228.1	236.6	5- 10	16.87	22.49
15.0	242.8	234.5	220.2	234.6	243.4	236.7	221.2	235.3	10- 15	27.86	50.35
20.0	241.9	230.5	210.6	230.5	242.8	233.6	211.9	231.7	15- 20	38.15	88.50
25.0	239.6	224.7	198.8	224.4	240.4	228.4	200.3	226.2	20- 25	47.41	135.9
30.0	236.6	217.3	185.5	216.7	236.9	221.3	186.9	218.8	25- 30	55.41	191.3
35.0	232.5	209.0	170.9	207.5	232.7	213.0	172.3	210.2	30- 35	62.03	253.3
40.0	227.4	199.8	155.3	197.7	227.5	203.9	156.7	200.9	35- 40	67.17	320.5
45.0	221.6	189.7	139.3	187.1	221.4	194.0	140.3	190.7	40- 45	70.74	391.2
50.0	214.3	178.7	122.7	175.5	214.3	183.2	123.8	179.6	45- 50	72.71	464.0
55.0	205.6	166.7	105.9	163.0	205.7	171.3	106.8	167.5	50- 55	73.05	537.0
60.0	195.1	153.9	89.28	150.0	195.6	158.7	90.01	154.5	55- 60	71.74	608.8
65.0	182.5	140.2	72.52	136.2	184.0	145.6	73.25	140.9	60- 65	68.84	677.6
70.0	168.5	126.0	56.12	122.1	170.8	131.7	56.85	126.6	65- 70	64.48	742.1
75.0	153.5	111.8	40.72	108.1	156.3	117.6	41.18	112.1	70- 75	58.93	801.0
80.0	138.1	97.94	26.42	94.29	141.4	103.6	27.05	98.12	75- 80	52.55	853.6
85.0	122.9	84.91	13.93	81.44	126.6	90.46	14.39	84.82	80- 85	45.86	899.5
90.0	110.6	74.79	4.373	70.24	112.7	78.16	3.735	72.97	85- 90	39.34	938.8
95.0	104.7	71.61	3.462	67.23	106.2	73.52	2.459	69.51	90- 95	35.73	974.5
100.0	99.12	63.86	3.279	58.30	100.8	68.05	2.368	62.86	95-100	33.16	1008
105.0	87.55	55.39	3.188	52.56	88.64	57.21	2.368	53.02	100-105	28.98	1037
110.0	75.52	48.28	3.097	47.83	77.34	50.47	2.368	47.55	105-110	23.04	1060
115.0	71.06	41.81	3.006	39.26	72.97	43.54	2.459	39.17	110-115	19.86	1080
120.0	66.23	38.72	3.006	36.44	68.23	39.81	2.642	36.26	115-120	17.55	1097
125.0	61.04	35.71	3.006	33.70	63.22	37.53	2.550	33.43	120-125	15.44	1113
130.0	54.66	28.42	2.915	25.87	57.12	31.70	2.642	25.87	125-130	12.85	1126
135.0	46.10	18.49	2.824	17.31	49.56	22.13	2.733	16.21	130-135	9.790	1135
140.0	32.16	9.930	2.915	9.839	37.35	14.21	2.824	8.472	135-140	6.606	1142
145.0	0	0	0	0	0	0	0	0	140-145	0	1142
150.0	0	0	0	0	0	0	0	0	145-150	0	1142
155.0	0	0	0	0	0	0	0	0	150-155	0	1142
160.0	0	0	0	0	0	0	0	0	155-160	0	1142
165.0	0	0	0	0	0	0	0	0	160-165	0	1142
170.0	0	0	0	0	0	0	0	0	165-170	0	1142
175.0	0	0	0	0	0	0	0	0	170-175	0	1142
180.0	0	0	0	0	0	0	0	0	175-180	0	1142
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

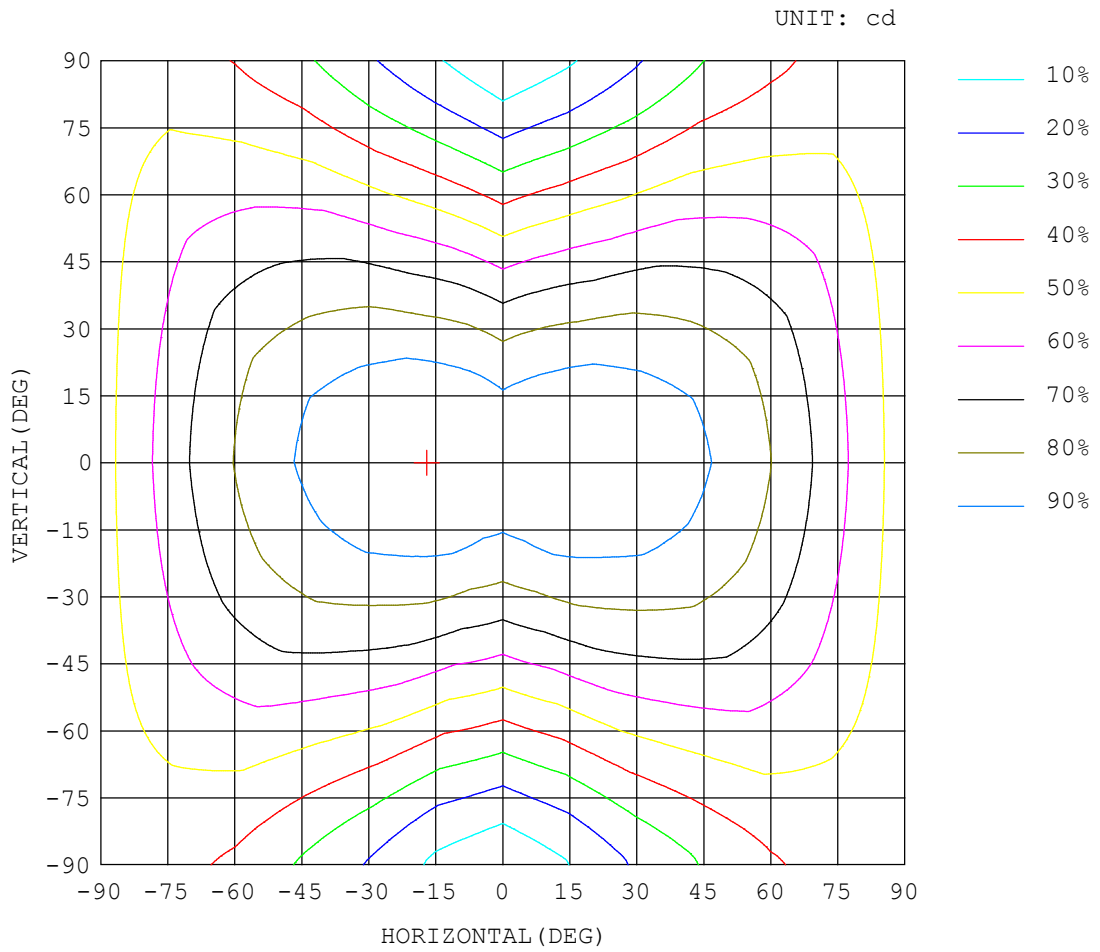
Test System:LSG-1600
Temperature:25.3DEG
Operators:REGAIP DASTAN
Test Date:03-25-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
Humidity:53.0%
Test Distance:9.545 m
Remarks: LLKS T180 CW 120D 14.4W 24V DC IP44

ISOCANDELA DIAGRAM

Report number: 2016000090

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANNTALYA	
NAME: LLKS T180 CW 120D 14.4W 24V DC IP44D	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE KS	DIMENSION: 1005x25X20mm	SERIAL No.:



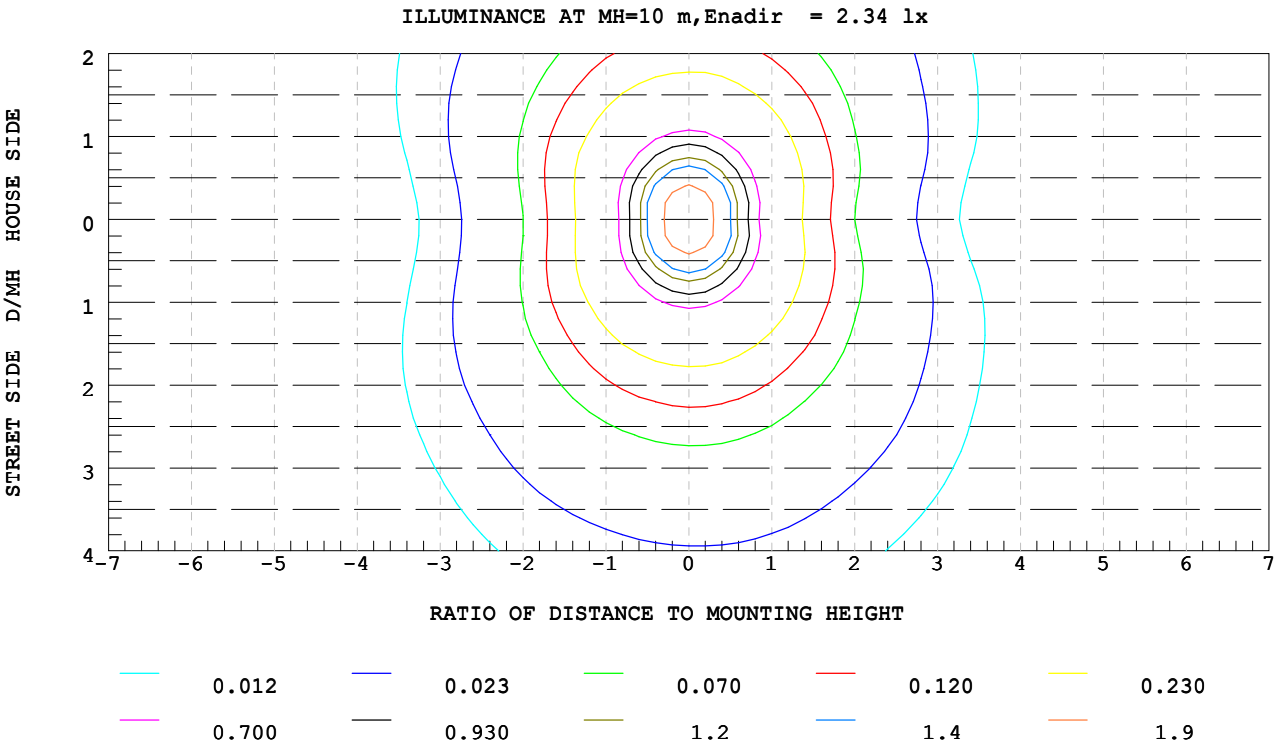
Test System:LSG-1600
Temperature:25.3DEG
Operators:REGAIP DASTAN
Test Date:03-25-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
Humidity:53.0%
Test Distance:9.545 m
Remarks: LLKS T180 CW 120D 14.4W 24V DC IP44

ISOLUX DIAGRAM

Report number: 2016000090

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANNTALYA	
NAME: LLKS T180 CW 120D 14.4W 24V DC IP44D	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE KS	DIMENSION: 1005x25X20mm	SERIAL No.:



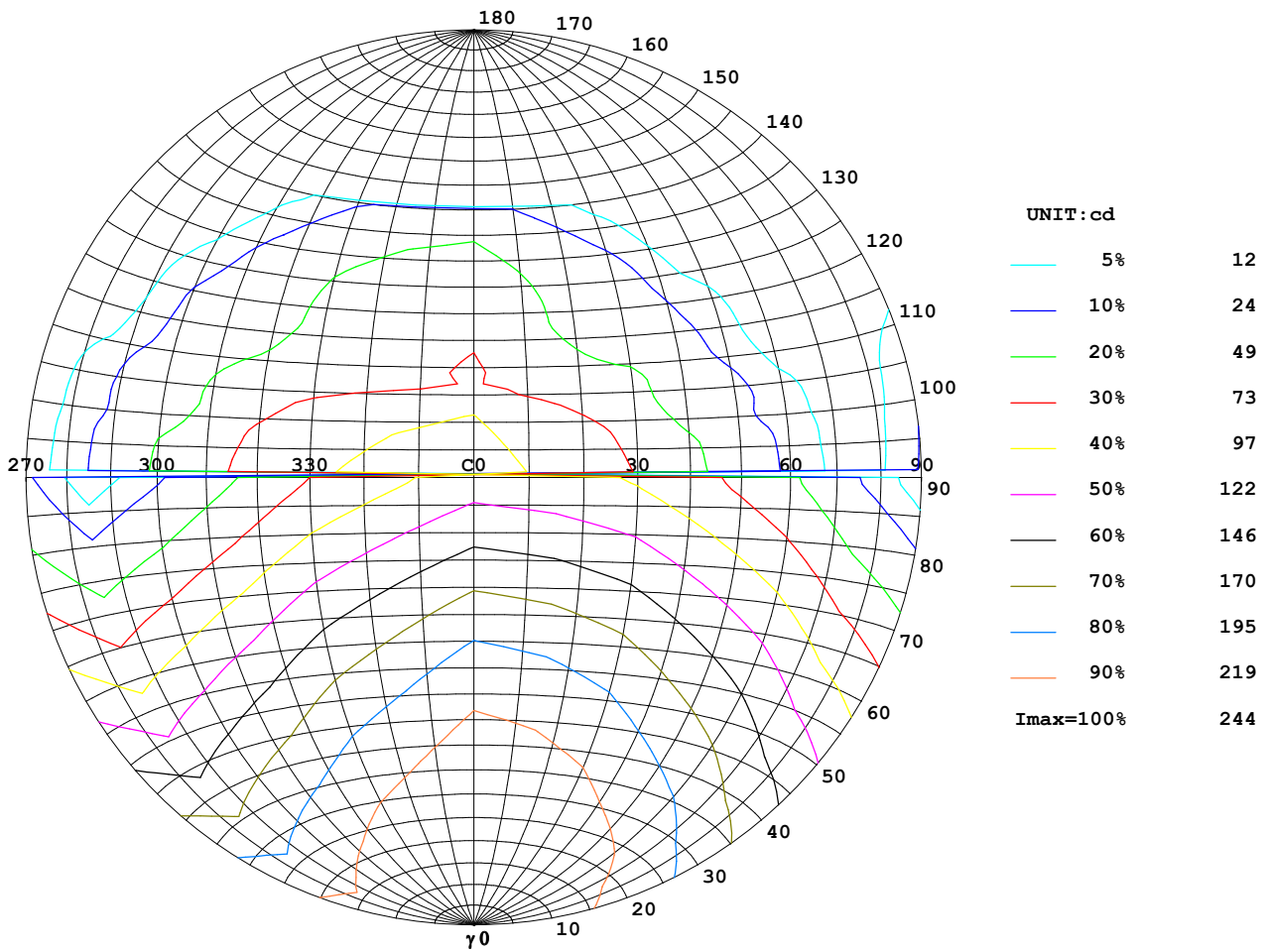
Test System:LSG-1600
Temperature:25.3DEG
Operators:REGAIP DASTAN
Test Date:03-25-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
Humidity:53.0%
Test Distance:9.545 m
Remarks: LLKS T180 CW 120D 14.4W 24V DC IP44

ISOCANDELA DIAGRAM

Report number: 2016000090

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANNTALYA	
NAME: LLKS T180 CW 120D 14.4W 24V DC IP44D	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE KS	DIMENSION: 1005x25X20mm	SERIAL No.:



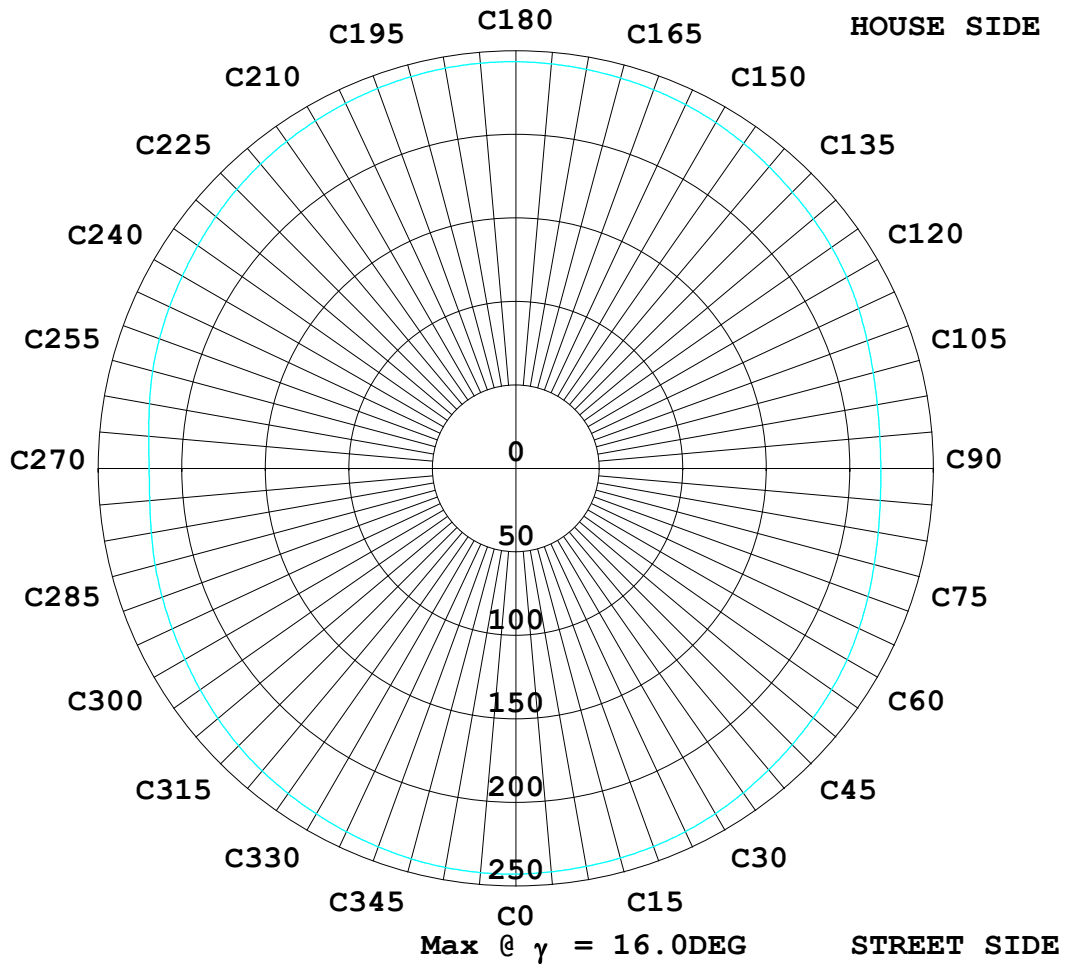
Test System:LSG-1600
Temperature:25.3DEG
Operators:REGAIP DASTAN
Test Date:03-25-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
Humidity:53.0%
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Remarks: LLKS T180 CW 120D 14.4W 24V DC IP44

ISOCANDELA DIAGRAM

Report number: 2016000090

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANNTALYA	
NAME: LLKS T180 CW 120D 14.4W 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 T180 CW 120D 14.4W 24V DC IP44

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 2016000090

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANNTALYA	
NAME: LLKS T180 CW 120D 14.4W 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	234	234	234	234	234	234	234	234	234	234	234	234	234	234	234
5.0	239	238	237	236	234	232	232	232	234	236	237	238	238	237	237
10.0	242	241	239	236	233	229	227	229	233	237	239	241	242	241	240
15.0	243	242	239	235	230	224	220	223	230	235	239	242	243	243	240
20.0	242	240	237	231	224	216	211	215	224	231	237	241	243	242	239
25.0	240	237	233	225	217	206	199	205	216	224	233	238	240	240	235
30.0	237	234	228	217	207	194	186	193	206	217	227	233	237	236	229
35.0	233	229	222	209	197	181	171	179	195	208	221	228	233	231	223
40.0	227	223	215	200	185	167	155	165	183	198	213	222	228	226	216
45.0	222	217	207	190	173	153	139	150	170	187	205	215	221	219	208
50.0	214	209	198	179	160	137	123	134	156	176	195	207	214	212	199
55.0	206	200	188	167	146	122	106	118	142	163	185	198	206	203	189
60.0	195	189	176	154	132	106	89.2	102	128	150	173	188	196	193	178
65.0	183	176	163	140	117	90.1	72.5	86.0	113	136	161	175	184	181	165
70.0	169	162	149	126	103	74.4	56.1	70.2	98.1	122	147	162	171	168	152
75.0	154	147	135	112	88.2	59.4	40.7	55.0	83.5	108	133	148	156	154	138
80.0	138	132	121	97.9	74.4	45.6	26.4	41.0	69.6	94.2	119	133	141	139	124
85.0	123	117	107	84.9	61.9	33.5	13.9	28.7	57.2	81.4	105	119	127	124	110
90.0	111	106	95.1	74.7	52.2	24.5	4.37	19.4	46.8	70.2	92.9	106	113	111	96.4
95.0	105	100	90.5	71.6	50.0	23.5	3.46	18.6	44.7	67.2	88.3	100	106	104	90.8
100.0	99.1	94.6	85.7	63.8	38.8	20.5	3.27	16.3	35.3	58.3	83.6	95.0	101	98.7	86.2
105.0	87.5	82.4	62.7	55.3	39.9	18.7	3.18	12.5	35.1	52.5	66.2	82.3	88.6	86.5	68.0
110.0	75.5	64.9	57.1	48.2	32.8	13.1	3.09	7.01	30.1	47.8	56.3	63.4	77.3	66.5	56.4
115.0	71.0	63.6	53.6	41.8	28.3	6.65	3.00	3.46	26.4	39.2	53.0	62.1	72.9	65.6	53.3
120.0	66.2	60.9	51.9	38.7	24.9	3.64	3.00	3.27	20.2	36.4	50.7	60.2	68.2	63.3	51.8
125.0	61.0	56.9	49.2	35.7	17.3	3.55	3.00	3.00	14.0	33.7	48.1	57.0	63.2	59.6	49.7
130.0	54.6	51.3	44.3	28.4	10.4	3.37	2.91	2.73	8.19	25.8	43.4	52.1	57.1	54.7	45.2
135.0	46.1	42.7	34.3	18.4	4.73	3.27	2.82	3.00	4.37	17.3	34.6	44.3	49.5	47.1	36.9
140.0	32.1	29.4	22.4	9.93	4.09	2.91	2.91	2.73	4.00	9.83	23.5	31.7	37.3	34.5	25.8
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 T180 CW 120D 14.4W 24V DC IP44

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 2016000090

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANNTALYA	
NAME: LLKS T180 CW 120D 14.4W 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	234	234	234	234	234	234	234	234	234
5.0	236	234	233	232	233	234	236	237	238
10.0	238	234	231	228	230	233	237	239	241
15.0	237	232	226	221	225	230	235	239	242
20.0	234	226	219	212	218	224	232	237	241
25.0	228	219	210	200	208	216	226	233	238
30.0	221	210	199	187	196	207	219	227	235
35.0	213	199	187	172	184	196	210	221	230
40.0	204	187	173	157	170	183	201	214	225
45.0	194	174	158	140	155	170	191	206	218
50.0	183	161	143	124	139	157	180	197	211
55.0	171	148	128	107	123	143	168	186	202
60.0	159	133	112	90.0	107	129	155	174	191
65.0	146	119	96.1	73.2	91.3	114	141	161	179
70.0	132	104	80.2	56.8	75.5	98.7	127	148	165
75.0	118	89.6	64.8	41.1	59.9	84.0	112	133	150
80.0	104	75.8	50.7	27.0	45.5	70.1	98.1	118	135
85.0	90.4	63.1	37.9	14.3	32.6	57.3	84.8	104	120
90.0	78.1	51.9	26.8	3.73	21.6	46.4	72.9	91.8	107
95.0	73.5	48.8	24.7	2.45	20.0	44.1	69.5	87.3	101
100.0	68.0	38.2	22.4	2.36	17.5	33.5	62.8	82.6	95.8
105.0	57.2	39.1	20.4	2.36	14.9	34.8	53.0	61.6	84.0
110.0	50.4	34.4	15.1	2.36	8.56	27.8	47.5	53.6	63.3
115.0	43.5	27.6	8.74	2.45	4.46	23.9	39.1	50.5	62.0
120.0	39.8	25.0	4.73	2.64	4.09	19.3	36.2	48.2	59.9
125.0	37.5	18.0	3.91	2.55	3.82	12.1	33.4	46.1	56.3
130.0	31.7	12.0	3.55	2.64	3.55	6.55	25.8	41.0	51.2
135.0	22.1	6.28	3.00	2.73	3.00	4.09	16.2	31.2	43.1
140.0	14.2	4.37	3.55	2.82	3.27	4.00	8.47	20.0	29.7
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:25.3DEG
 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 T180 CW 120D 14.4W 24V DC IP44