

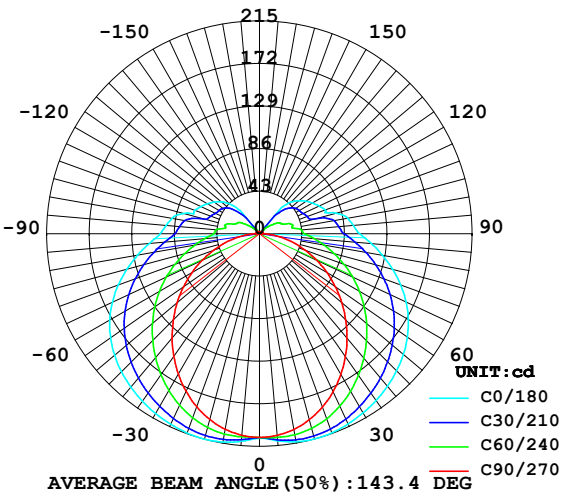
STREETLIGHT PHOTOMETRIC TEST REPORT

Report number: 2016000092

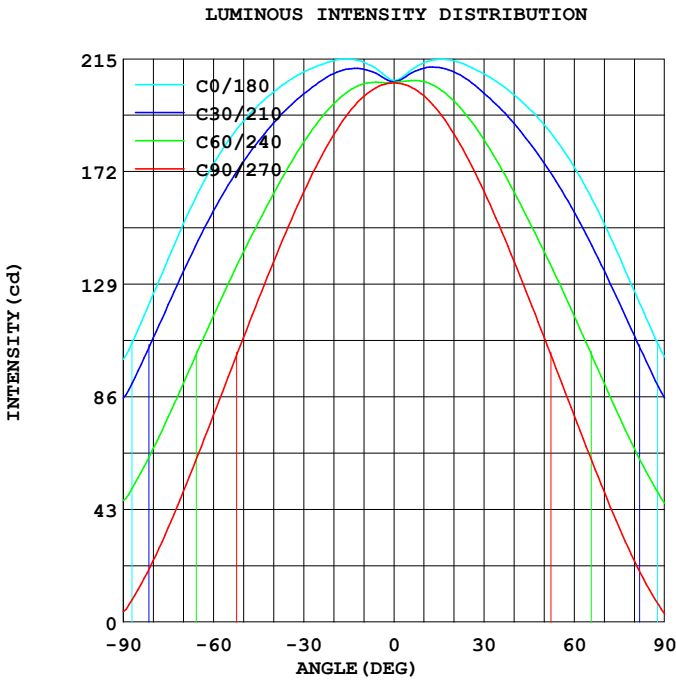
MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLKS BT60 CW 120D 14.4W 24V DC IP44	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE KS	DIMENSION: 1005x25X20mm	SERIAL No.:

TEST DATA:					
MODEL:	LLKS	Imax (cd) :	215.0	$\eta$ street_up (%) :	9.1
NOMINAL POWER (W) :	14.4	MAXIMUM (C, $\gamma$ :	0,16.0	$\eta$ street_down (%) :	43.1
RATED VOLTAGE (V) :	24	TOTAL FLUX (lm) :	1020	$\eta$ house_up (%) :	9.1
NOMINAL FLUX (lm) :	1019.6	EFFICIENCY (%) :	100.0	$\eta$ house_down (%) :	38.7
TEST FLUX (lm:	1020	$\eta$ 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:0.142A P:14.40W PF:0.522

Test System:LSG-1600  
Temperature:25.3DEG  
Operators:REGAIP DASTAN  
Test Date:03-26-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)  
Humidity:53.0%  
Test Distance:9.545 m  
Remarks: LLKS BT60 CW 120D 14.4W 24V DC IP4

# ZONAL FLUX DIAGRAM

Report number: 2016000092

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLKS BT60 CW 120D 14.4W 24V DC IP44	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	210.5	207.6	204.5	207.9	210.0	207.9	204.6	207.4	0- 5	4.951	4.951
10.0	213.7	208.3	200.7	208.6	213.5	209.3	200.9	208.7	5- 10	14.88	19.83
15.0	214.9	206.9	194.4	207.1	214.8	208.5	194.7	207.8	10- 15	24.57	44.41
20.0	214.3	203.6	186.0	203.6	214.2	205.6	186.4	204.8	15- 20	33.66	78.07
25.0	212.4	198.5	175.7	198.3	212.1	200.9	176.2	200.1	20- 25	41.86	119.9
30.0	210.0	192.0	164.0	191.6	209.2	194.7	164.4	193.9	25- 30	48.95	168.8
35.0	206.6	184.7	151.1	183.7	205.7	187.4	151.6	186.6	30- 35	54.83	223.7
40.0	202.3	176.7	137.3	175.3	201.2	179.3	137.7	178.7	35- 40	59.41	283.1
45.0	197.3	167.9	123.2	166.1	196.0	170.6	123.2	169.9	40- 45	62.62	345.7
50.0	191.1	158.1	108.5	156.1	189.8	161.0	108.6	160.3	45- 50	64.42	410.1
55.0	183.7	147.5	93.65	145.4	182.4	150.6	93.74	149.7	50- 55	64.80	475.0
60.0	174.8	136.4	78.89	134.1	173.6	139.6	78.80	138.5	55- 60	63.74	538.7
65.0	164.0	124.4	64.13	122.0	163.6	128.1	64.04	126.7	60- 65	61.25	599.9
70.0	151.8	111.9	49.65	109.6	152.0	115.8	49.65	114.2	65- 70	57.49	657.4
75.0	138.6	99.48	35.98	97.39	139.4	103.4	35.89	101.5	70- 75	52.65	710.1
80.0	125.0	87.18	23.41	85.27	126.3	91.28	23.32	89.28	75- 80	47.07	757.2
85.0	111.6	75.70	12.39	73.97	113.3	79.71	12.29	77.44	80- 85	41.20	798.4
90.0	100.3	66.50	4.008	64.13	101.2	68.96	3.097	66.87	85- 90	35.44	833.8
95.0	95.02	63.68	3.553	61.49	95.57	65.23	2.550	63.68	90- 95	32.26	866.1
100.0	89.92	56.75	3.370	54.11	90.65	60.13	2.550	58.21	95-100	29.98	896.1
105.0	79.62	49.47	3.370	48.37	80.17	51.20	2.642	49.28	100-105	26.30	922.4
110.0	69.60	42.63	3.370	42.63	70.88	44.36	2.733	42.72	105-110	21.02	943.4
115.0	65.23	37.90	3.279	36.98	66.59	39.54	2.733	37.44	110-115	18.22	961.6
120.0	60.76	35.16	3.279	34.16	62.22	36.26	2.915	34.43	115-120	16.21	977.8
125.0	56.03	32.43	3.188	31.70	57.48	34.07	2.915	31.79	120-125	14.29	992.1
130.0	50.19	25.96	3.188	25.23	52.11	28.60	2.824	25.32	125-130	11.93	1004
135.0	42.54	17.58	3.006	17.67	45.37	20.40	2.915	16.76	130-135	9.172	1013
140.0	30.42	9.566	3.097	11.11	34.71	13.57	3.006	9.292	135-140	6.330	1020
145.0	0	0	0	0	0	0	0	0	140-145	0	1020
150.0	0	0	0	0	0	0	0	0	145-150	0	1020
155.0	0	0	0	0	0	0	0	0	150-155	0	1020
160.0	0	0	0	0	0	0	0	0	155-160	0	1020
165.0	0	0	0	0	0	0	0	0	160-165	0	1020
170.0	0	0	0	0	0	0	0	0	165-170	0	1020
175.0	0	0	0	0	0	0	0	0	170-175	0	1020
180.0	0	0	0	0	0	0	0	0	175-180	0	1020
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

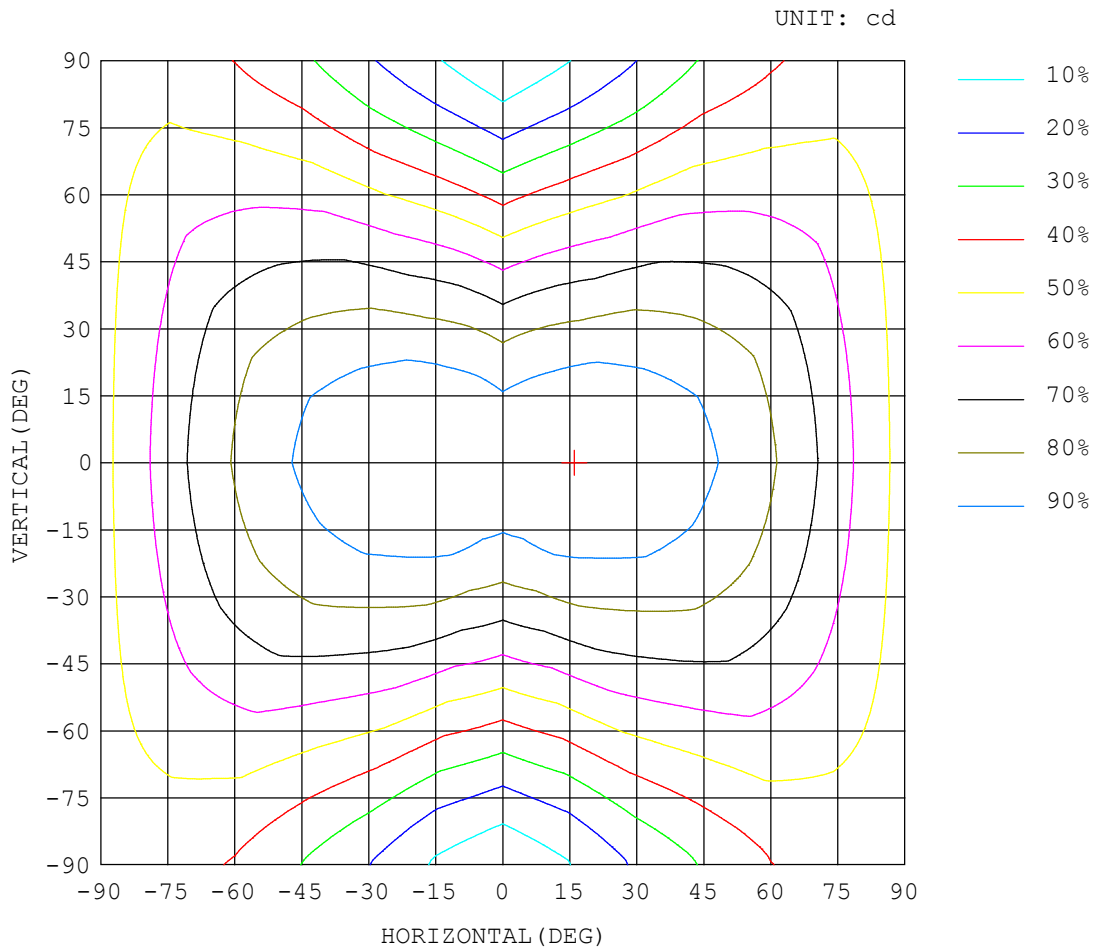
Test System:LSG-1600  
Temperature:25.3DEG  
Operators:REGAIP DASTAN  
Test Date:03-26-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)  
Humidity:53.0%  
Test Distance:9.545 m  
Remarks: LLKS BT60 CW 120D 14.4W 24V DC IP4

## ISOCANDELA DIAGRAM

Report number: 2016000092

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLKS BT60 CW 120D 14.4W 24V DC IP44D	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE KS	DIMENSION: 1005x25X20mm	SERIAL No.:



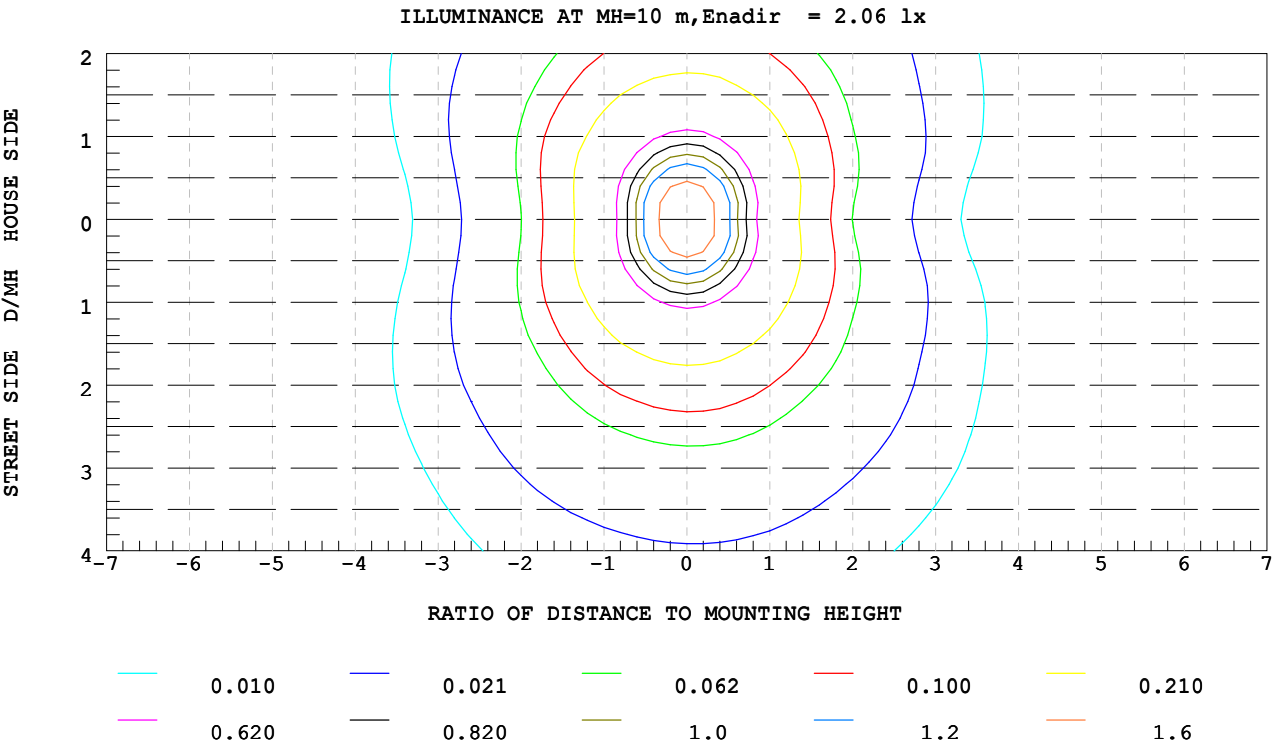
Test System:LSG-1600  
Temperature:25.3DEG  
Operators:REGAIP DASTAN  
Test Date:03-26-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)  
Humidity:53.0%  
Test Distance:9.545 m  
Remarks: LLKS BT60 CW 120D 14.4W 24V DC IP4

ISOLUX DIAGRAM

Report number: 2016000092

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLKS BT60 CW 120D 14.4W 24V DC IP44D	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE KS	DIMENSION: 1005x25X20mm	SERIAL No.:



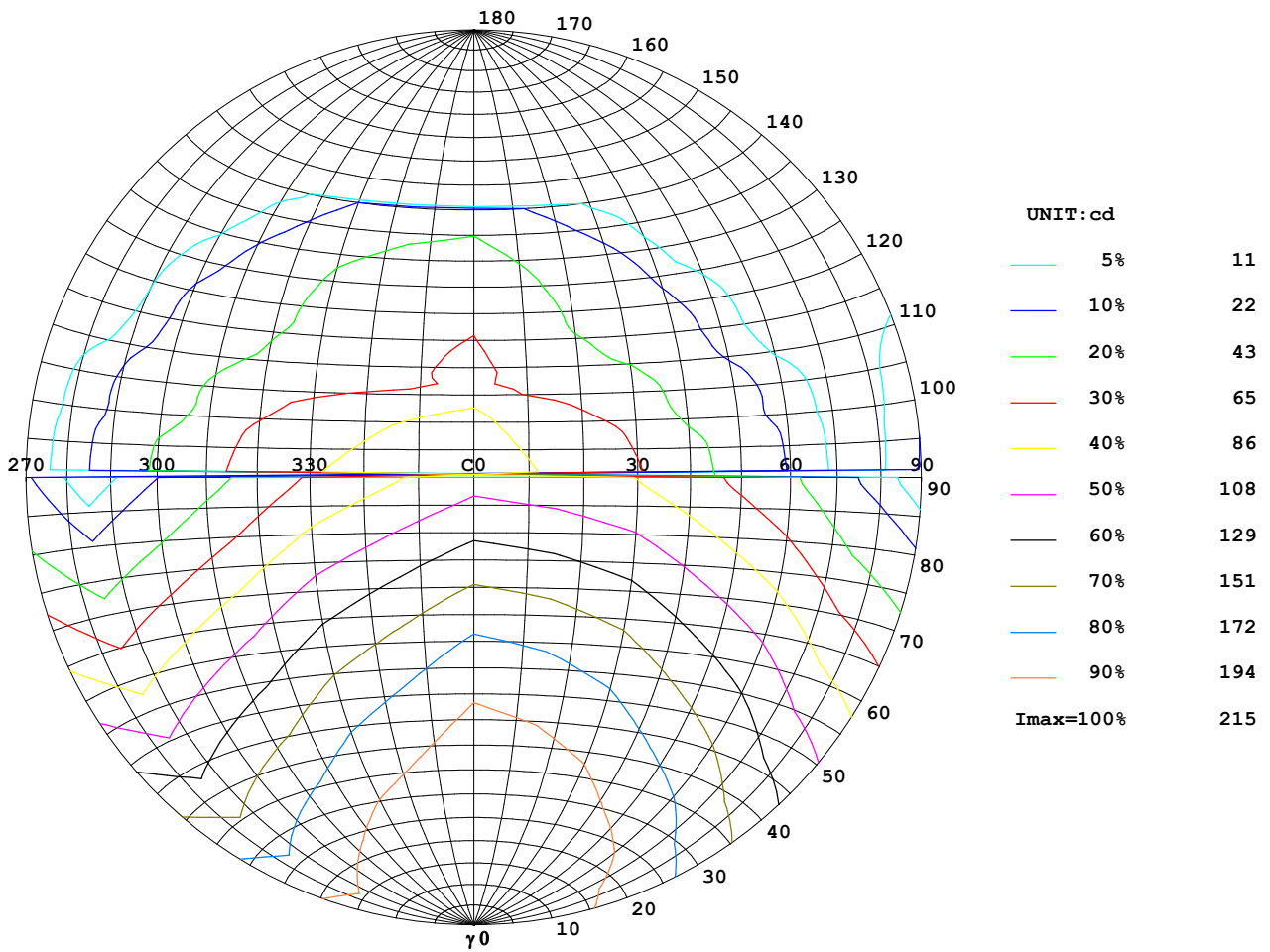
Test System:LSG-1600  
Temperature:25.3DEG  
Operators:REGAIP DASTAN  
Test Date:03-26-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)  
Humidity:53.0%  
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Report number: 2016000092

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLKS BT60 CW 120D 14.4W 24V DC IP44D	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE KS	DIMENSION: 1005x25X20mm	SERIAL No.:



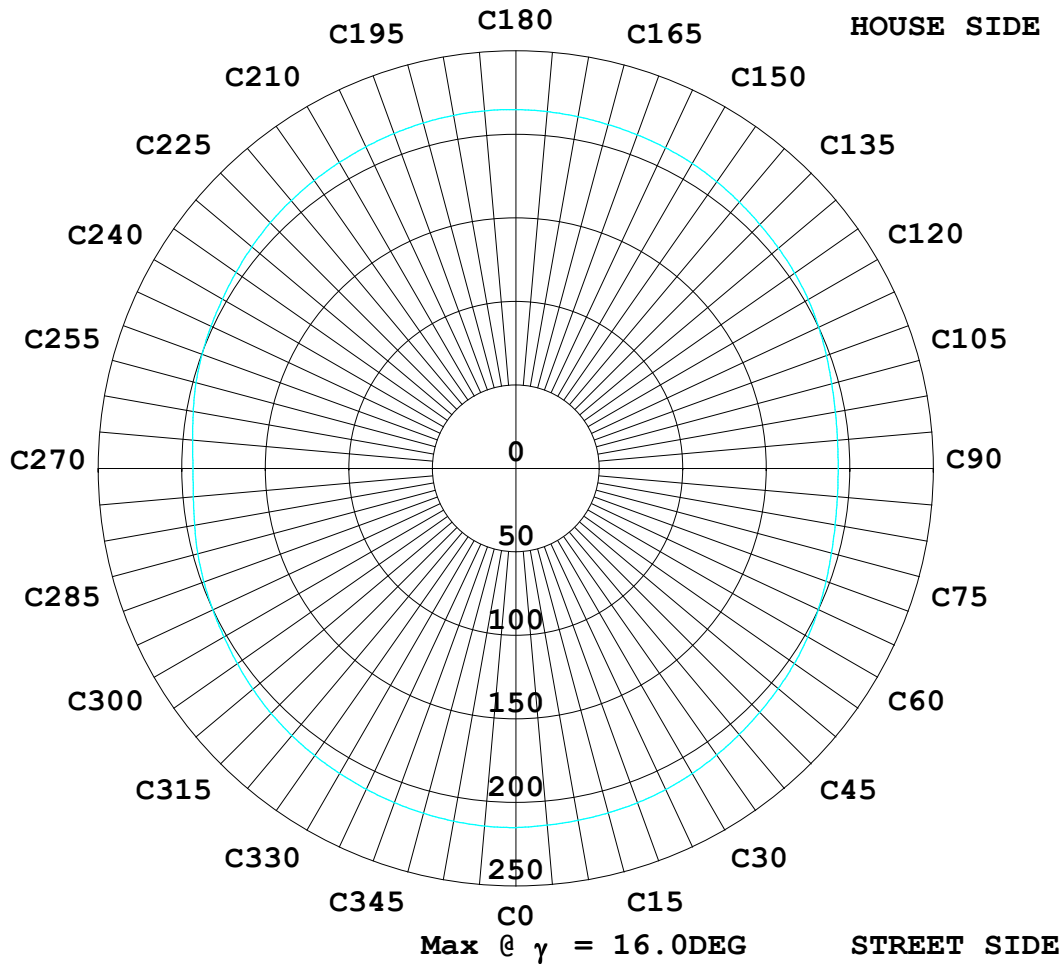
Test System:LSG-1600  
Temperature:25.3DEG  
Operators:REGAIP DASTAN  
Test Date:03-26-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)  
Humidity:53.0%  
Test Distance:9.545 m  
Remarks: LLKS BT60 CW 120D 14.4W 24V DC IP4

ISOCANDELA DIAGRAM

Report number: 2016000092

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLKS BT60 CW 120D 14.4W 24V DC IP44	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE KS	DIMENSION: 1005x25X20mm	SERIAL No.:



Test System:LSG-1600	Test Set: 2.0deg/s C-Gamma (TYPE C)
Temperature:25.3DEG	Humidity:53.0%
Operators:REGAIP DASTAN	Test Distance:9.545 m
Test Date:03-26-2016	Remarks: LLKS BT60 CW 120D 14.4W 24V DC IP4

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 2016000092

MANUFACTURER: FIBERLI				Address:PSL ELEKTRONIK ANTALYA			
NAME: LLKS BT60 CW 120D 14.4W 24V DC IP44				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	207	206	206	206	206	206	206	206	206	206	206	206	207	206	206
5.0	211	210	209	208	206	204	205	205	207	208	209	210	210	210	209
10.0	214	213	211	208	206	202	201	202	206	209	211	213	214	213	211
15.0	215	214	211	207	203	197	194	197	203	207	211	213	215	214	212
20.0	214	213	209	204	198	190	186	190	198	204	209	212	214	214	210
25.0	212	210	206	199	191	181	176	181	191	198	206	210	212	211	207
30.0	210	207	202	192	183	171	164	171	183	192	201	206	209	208	202
35.0	207	203	197	185	174	159	151	159	173	184	195	202	206	204	197
40.0	202	198	191	177	163	147	137	147	163	175	189	197	201	199	190
45.0	197	193	184	168	153	134	123	133	151	166	182	191	196	194	183
50.0	191	186	176	158	141	121	109	120	140	156	174	184	190	187	175
55.0	184	178	167	148	129	107	93.6	106	127	145	165	176	182	179	166
60.0	175	169	157	136	117	93.0	78.8	91.6	115	134	155	167	174	171	157
65.0	164	158	146	124	104	79.1	64.1	77.5	102	122	144	157	164	161	146
70.0	152	145	134	112	90.9	65.4	49.6	63.5	88.5	110	132	145	152	149	134
75.0	139	132	121	99.4	78.2	52.2	35.9	50.2	75.8	97.3	120	133	139	137	122
80.0	125	119	108	87.1	66.1	39.9	23.4	37.9	63.6	85.2	107	120	126	124	109
85.0	112	106	95.8	75.7	55.1	29.3	12.3	27.2	52.6	73.9	95.2	107	113	111	97.0
90.0	100	95.0	85.5	66.5	46.3	21.2	4.00	18.9	43.4	64.1	84.1	95.2	101	98.7	85.5
95.0	95.0	90.2	81.3	63.6	44.3	20.4	3.55	18.1	41.6	61.4	80.1	90.2	95.5	93.1	80.8
100.0	89.9	85.3	77.0	56.7	34.9	17.9	3.37	16.0	33.1	54.1	75.9	85.7	90.6	88.4	76.8
105.0	79.6	74.6	56.3	49.4	35.7	16.3	3.37	13.3	33.3	48.3	58.3	74.9	80.1	77.8	59.3
110.0	69.6	59.1	52.4	42.6	28.7	10.8	3.37	8.10	28.1	42.6	52.2	58.4	70.8	60.4	51.5
115.0	65.2	57.8	49.1	37.9	25.2	5.92	3.27	4.28	24.5	36.9	49.1	57.3	66.5	59.4	48.6
120.0	60.7	55.3	47.3	35.1	22.6	4.19	3.27	3.91	20.4	34.1	47.0	55.3	62.2	57.1	46.8
125.0	56.0	51.7	44.9	32.4	16.0	4.00	3.18	3.55	14.7	31.7	44.7	52.2	57.4	53.8	44.8
130.0	50.1	46.8	40.3	25.9	10.2	3.82	3.18	3.09	9.56	25.2	40.4	47.8	52.1	49.3	40.7
135.0	42.5	39.2	31.6	17.5	5.19	3.64	3.00	3.37	5.64	17.6	32.7	41.0	45.3	42.8	33.5
140.0	30.4	27.7	21.5	9.56	4.73	3.18	3.09	2.91	5.10	11.1	23.1	30.0	34.7	31.8	23.9
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:03-26-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)  
 Humidity:53.0%  
 Test Distance:9.545 m  
 Remarks: LLKS BT60 CW 120D 14.4W 24V DC IP4

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 2016000092

MANUFACTURER: FIBERLI				Address:PSL ELEKTRONIK ANTALYA			
NAME: LLKS BT60 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	206	206	206	206	206	206	206	206	206
5.0	208	207	206	205	205	206	207	209	209
10.0	209	206	204	201	203	205	209	211	213
15.0	209	204	199	195	198	203	208	211	214
20.0	206	199	193	186	192	198	205	209	213
25.0	201	192	185	176	184	191	200	206	211
30.0	195	184	175	164	174	183	194	202	208
35.0	187	175	164	152	163	173	187	196	204
40.0	179	164	152	138	150	163	179	190	200
45.0	171	153	139	123	137	151	170	183	194
50.0	161	141	126	109	124	140	160	175	188
55.0	151	129	112	93.7	110	128	150	166	180
60.0	140	117	98.1	78.8	96.1	115	139	156	171
65.0	128	104	84.2	64.0	82.2	102	127	145	160
70.0	116	91.1	70.3	49.6	68.3	89.0	114	133	148
75.0	103	78.2	56.7	35.8	54.6	75.9	102	120	135
80.0	91.2	66.2	44.1	23.3	42.0	63.8	89.2	107	122
85.0	79.7	55.1	32.9	12.2	30.7	52.6	77.4	94.5	109
90.0	68.9	45.3	23.3	3.09	21.1	43.0	66.8	83.3	96.7
95.0	65.2	42.9	21.5	2.55	19.6	40.9	63.6	79.2	91.7
100.0	60.1	33.9	19.4	2.55	17.2	31.7	58.2	75.0	86.8
105.0	51.2	34.8	17.8	2.64	15.4	32.7	49.2	54.4	76.4
110.0	44.3	29.7	12.4	2.73	9.83	25.7	42.7	50.0	58.6
115.0	39.5	24.3	7.28	2.73	5.28	22.2	37.4	47.0	57.3
120.0	36.2	22.5	4.55	2.91	4.73	19.2	34.4	44.9	55.1
125.0	34.0	16.3	4.46	2.91	4.46	12.8	31.7	42.5	51.7
130.0	28.6	11.0	3.91	2.82	3.73	7.92	25.3	38.1	47.1
135.0	20.4	6.19	3.27	2.91	3.18	4.82	16.7	29.7	39.8
140.0	13.5	5.10	3.82	3.00	3.82	4.55	9.29	19.9	28.1
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:03-26-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)  
 Humidity:53.0%  
 Test Distance:9.545 m  
 Remarks: LLKS BT60 CW 120D 14.4W 24V DC IP44