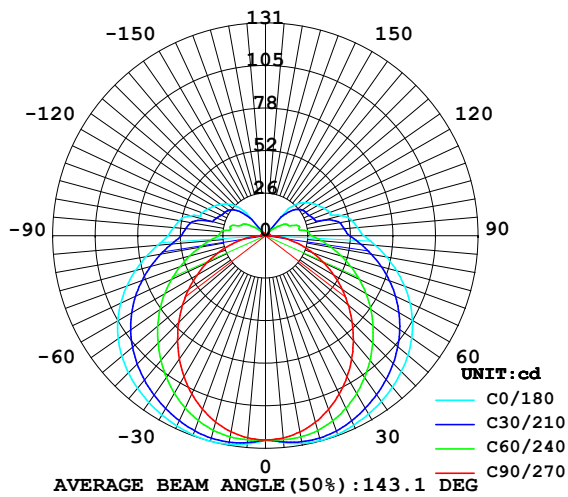
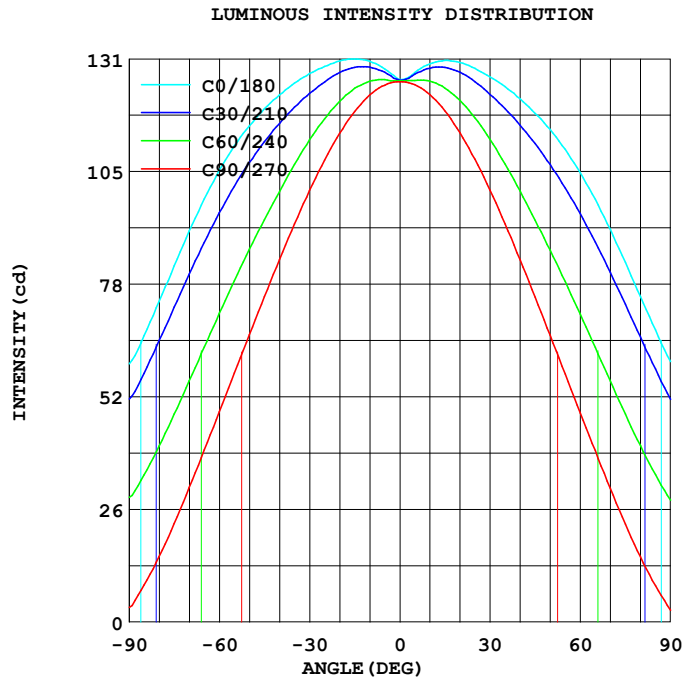


STREETLIGHT PHOTOMETRIC TEST REPORT

Report number: 2016000089

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLKS T90 CW 120D 7.2W 24V DC IP44D	TYPE: LED LINE	WEIGHT:
SPECIFICATION: LED LINE AKS	DIMENSION: 1005x25x20	SERIAL No.:

TEST DATA:					
MODEL:	LLKS	Imax (cd) :	130.8	η street_up (%) :	9.1
NOMINAL POWER (W) :	7.2	MAXIMUM (C, γ :	0,14.0	η street_down (%) :	43.1
RATED VOLTAGE (V) :	24	TOTAL FLUX (lm) :	618.5	η house_up (%) :	9.1
NOMINAL FLUX (lm) :	618.5	EFFICIENCY (%) :	100.0	η house_down (%) :	38.6
TEST FLUX (lm) :	618.5	η up (%) :	18.3		
LAMPS QUANTITY:	1	η down (%) :	81.7		

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSINTENSITY DISTRIBUTION DIAGRAM
IN C PLANS

Test: U:24.00V I:0.096A P:7.200W PF:0.474

Test System: LSG-1600
 Temperature: 25.3 DEG
 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 T90 CW 120D 7.2W 24V DC IP44D

ZONAL FLUX DIAGRAM

Report number: 2016000089

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLKS T90 CW 120D 7.2W 24V DC IP44D	TYPE: LED LINE	WEIGHT:
SPECIFICATION: LED LINE AKS	DIMENSION: 1005x25x20	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total
5.0	128.4	126.8	124.7	126.6	127.6	126.5	124.8	126.7	0- 5	3.020	3.020
10.0	130.2	127.2	122.4	126.9	129.6	127.4	122.5	127.3	5- 10	9.073	12.09
15.0	130.8	126.3	118.6	125.9	130.4	127.0	118.7	126.6	10- 15	14.97	27.06
20.0	130.3	124.2	113.5	123.6	130.0	125.1	113.7	124.7	15- 20	20.50	47.57
25.0	129.0	121.1	107.3	120.3	128.6	122.3	107.5	121.6	20- 25	25.47	73.04
30.0	127.4	117.1	100.3	116.1	126.6	118.5	100.3	117.8	25- 30	29.77	102.8
35.0	125.1	112.6	92.47	111.2	124.3	114.0	92.47	113.2	30- 35	33.32	136.1
40.0	122.4	107.7	84.18	105.9	121.5	109.2	84.18	108.2	35- 40	36.08	172.2
45.0	119.2	102.3	75.61	100.2	118.1	103.9	75.43	102.7	40- 45	38.00	210.2
50.0	115.2	96.30	66.78	94.11	114.4	98.12	66.59	96.75	45- 50	39.06	249.3
55.0	110.6	89.92	57.85	87.46	109.7	91.92	57.57	90.28	50- 55	39.26	288.5
60.0	104.9	83.08	48.83	80.53	104.4	85.18	48.56	83.27	55- 60	38.58	327.1
65.0	98.30	75.70	39.99	73.15	98.21	78.16	39.81	76.07	60- 65	37.05	364.2
70.0	90.83	68.14	31.24	65.68	91.19	70.79	30.97	68.42	65- 70	34.74	398.9
75.0	82.72	60.49	22.86	58.21	83.54	63.22	22.68	60.58	70- 75	31.80	430.7
80.0	74.52	53.11	15.21	50.92	75.61	55.93	15.12	53.11	75- 80	28.41	459.1
85.0	66.50	46.19	8.564	44.09	67.87	48.83	8.472	46.10	80- 85	24.86	484.0
90.0	59.94	40.72	3.370	38.08	60.49	42.36	2.733	39.72	85- 90	21.39	505.4
95.0	56.85	38.99	2.824	36.53	56.94	39.81	2.186	37.99	90- 95	19.47	524.9
100.0	53.84	35.07	2.642	31.97	54.11	36.89	2.095	34.52	95-100	18.10	543.0
105.0	47.74	30.52	2.550	28.88	48.01	31.52	2.095	29.51	100-105	15.91	558.9
110.0	41.54	26.14	2.550	25.60	42.36	27.33	2.186	25.78	105-110	12.78	571.7
115.0	39.17	23.68	2.459	22.04	39.99	24.50	2.186	22.32	110-115	11.12	582.8
120.0	36.53	21.86	2.459	20.59	37.44	22.50	2.186	20.77	115-120	9.927	592.7
125.0	33.61	20.13	2.459	19.13	34.80	21.31	2.186	19.13	120-125	8.767	601.5
130.0	30.24	16.30	2.368	15.12	31.70	18.22	2.277	15.21	125-130	7.349	608.8
135.0	25.69	11.20	2.368	10.75	27.69	13.11	2.277	10.20	130-135	5.691	614.5
140.0	18.40	6.286	2.368	6.924	21.50	9.019	2.277	5.739	135-140	3.974	618.5
145.0	0	0	0	0	0	0	0	0	140-145	0	618.5
150.0	0	0	0	0	0	0	0	0	145-150	0	618.5
155.0	0	0	0	0	0	0	0	0	150-155	0	618.5
160.0	0	0	0	0	0	0	0	0	155-160	0	618.5
165.0	0	0	0	0	0	0	0	0	160-165	0	618.5
170.0	0	0	0	0	0	0	0	0	165-170	0	618.5
175.0	0	0	0	0	0	0	0	0	170-175	0	618.5
180.0	0	0	0	0	0	0	0	0	175-180	0	618.5
DEG	LUMINOUS INTENSITY:cd									UNIT: lm	

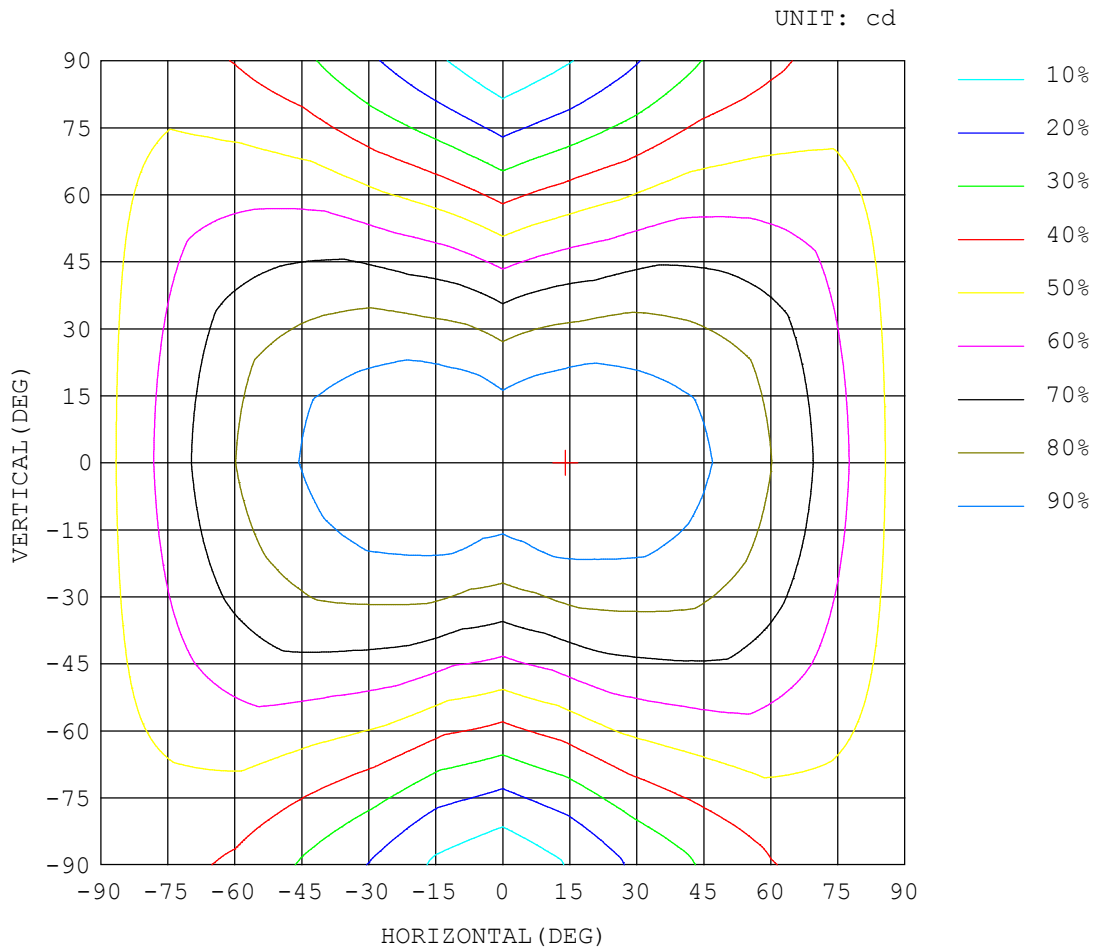
Test System: LSG-1600
 Temperature: 25.3 DEG
 Operators: REGAIP DASTAN
 Test Date: 03-25-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity: 53.0%
 Test Distance: 9.545 m
 Remarks: LLKS T90 CW 120D 7.2W 24V DC IP44D

ISOCANDELA DIAGRAM

Report number: 2016000089

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLKS T90 CW 120D 7.2W 24V DC IP44D	TYPE: LED LINE	WEIGHT:
SPECIFICATION: LED LINE AKS	DIMENSION: 1005x25x20	SERIAL No.:



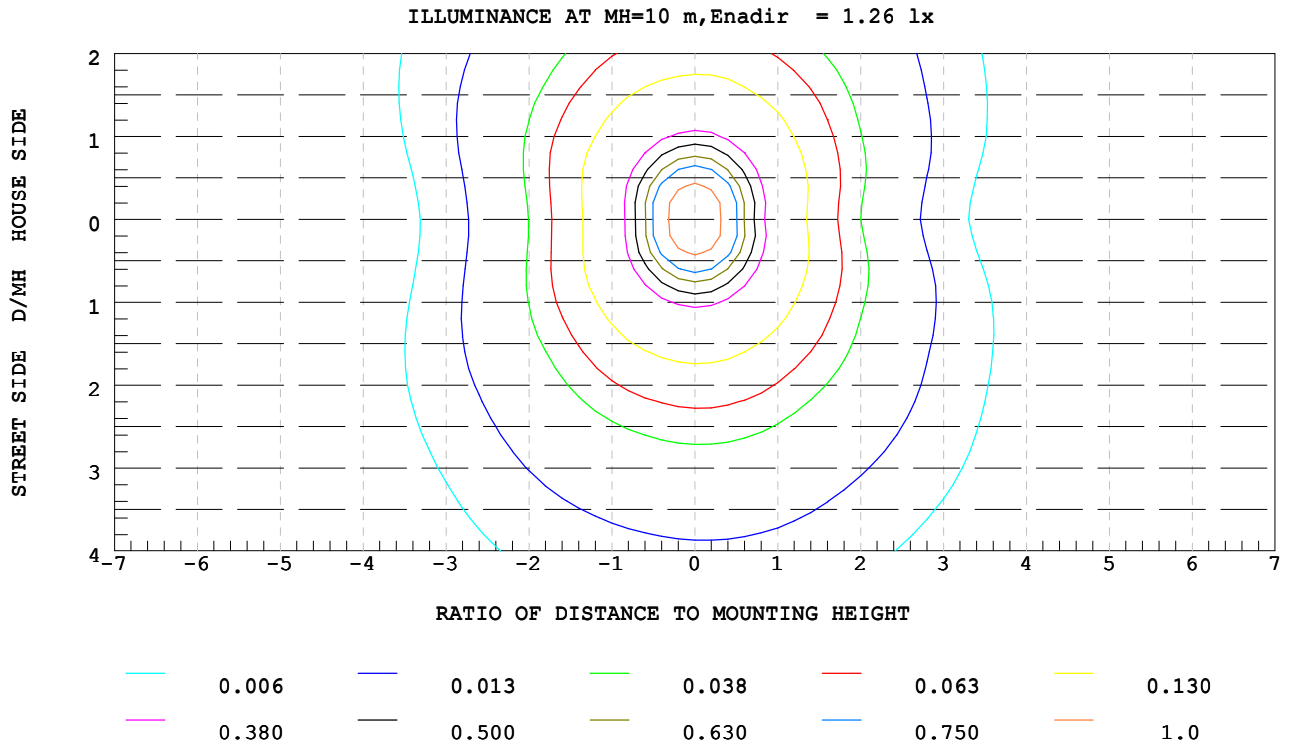
Test System: LSG-1600
Temperature: 25.3 DEG
Operators: REGAIP DASTAN
Test Date: 03-25-2016

Test Set: 2.0 deg/s C-Gamma (TYPE C)
Humidity: 53.0%
Test Distance: 9.545 m
Remarks: LLKS T90 CW 120D 7.2W 24V DC IP44D

ISOLUX DIAGRAM

Report number: 2016000089

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLKS T90 CW 120D 7.2W 24V DC IP44D	TYPE: LED LINE	WEIGHT:
SPECIFICATION: LED LINE AKS	DIMENSION: 1005x25x20	SERIAL No.:



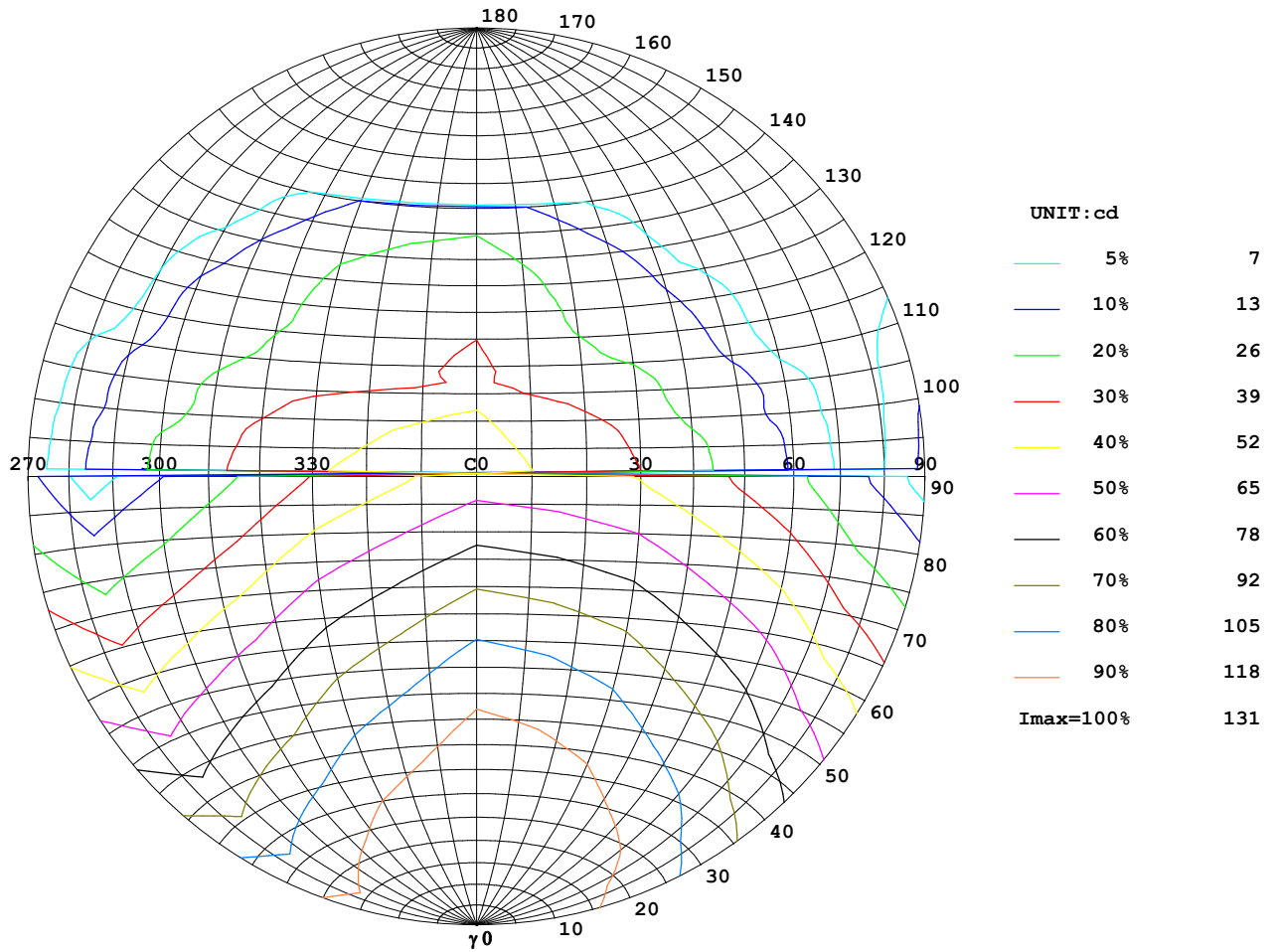
Test System: LSG-1600
 Temperature: 25.3 DEG
 Operators: REGAIP DASTAN
 Test Date: 03-25-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity: 53.0%
 Test Distance: 9.545 m
 Remarks: LLKS T90 CW 120D 7.2W 24V DC IP44D

ISOCANDELA DIAGRAM

Report number: 2016000089

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLKS T90 CW 120D 7.2W 24V DC IP44D	TYPE: LED LINE	WEIGHT:
SPECIFICATION: LED LINE AKS	DIMENSION: 1005x25x20	SERIAL No.:



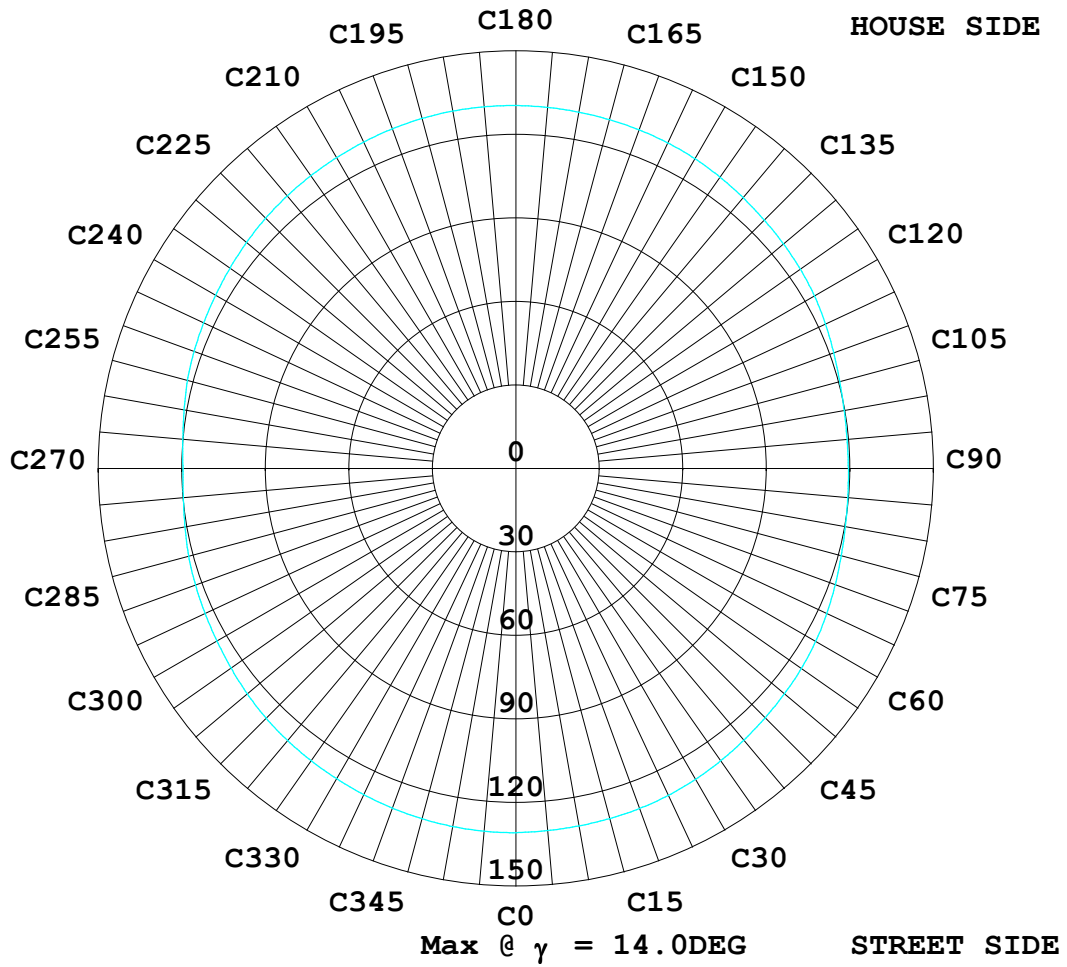
Test System: LSG-1600
Temperature: 25.3 DEG
Operators: REGAIP DASTAN
Test Date: 03-25-2016

Test Set: 2.0 deg/s C-Gamma (TYPE C)
Humidity: 53.0%
Test Distance: 9.545 m
Remarks: LLKS T90 CW 120D 7.2W 24V DC IP44D

ISOCANDELA DIAGRAM

Report number: 2016000089

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLKS T90 CW 120D 7.2W 24V DC IP44D	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE AKS	DIMENSION: 1005x25x20	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 T90 CW 120D 7.2W 24V DC IP44D

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 2016000089

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLKS T90 CW 120D 7.2W 24V DC IP44D	TYPE: LED LINE	WEIGHT:
SPECIFICATION: LED LINE AKS	DIMENSION: 1005x25x20	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	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126
5.0	128	128	128	127	126	125	125	125	126	127	127	128	128	127	127
10.0	130	130	129	127	126	123	122	123	125	127	129	129	130	129	129
15.0	131	130	129	126	124	120	119	120	123	126	128	130	130	130	129
20.0	130	129	128	124	121	116	114	115	120	124	127	129	130	130	128
25.0	129	128	125	121	117	111	107	110	116	120	125	127	129	128	126
30.0	127	126	123	117	112	105	100	104	111	116	122	125	127	126	123
35.0	125	123	120	113	106	97.7	92.4	96.3	105	111	118	122	124	124	119
40.0	122	120	116	108	99.9	90.2	84.1	88.7	98.4	106	114	119	122	121	115
45.0	119	117	112	102	93.4	82.4	75.6	80.7	91.5	100	110	115	118	117	111
50.0	115	112	107	96.3	86.6	74.1	66.7	72.4	84.3	94.1	105	111	114	113	106
55.0	111	107	101	89.9	79.2	65.8	57.8	63.9	76.8	87.4	99.1	106	110	109	101
60.0	105	101	95.1	83.0	71.7	57.4	48.8	55.3	69.1	80.5	93.0	99.9	104	103	94.8
65.0	98.3	94.6	88.1	75.7	63.8	49.1	39.9	46.8	61.2	73.1	86.3	93.5	98.2	96.9	88.2
70.0	90.8	87.1	80.8	68.1	56.0	40.7	31.2	38.3	53.2	65.6	79.1	86.5	91.1	90.0	81.1
75.0	82.7	79.2	73.1	60.4	48.2	32.7	22.8	30.2	45.4	58.2	71.7	78.9	83.5	82.6	73.7
80.0	74.5	71.1	65.4	53.1	40.9	25.3	15.2	22.7	38.0	50.9	64.2	71.1	75.6	74.7	66.2
85.0	66.5	63.2	57.7	46.1	34.1	18.8	8.56	16.3	31.4	44.0	56.8	63.5	67.8	66.8	58.7
90.0	59.9	57.0	51.8	40.7	28.9	14.0	3.37	11.2	25.7	38.0	50.1	56.4	60.4	59.4	51.7
95.0	56.8	54.2	49.3	38.9	27.7	13.2	2.82	10.7	24.6	36.5	47.6	53.6	56.9	55.8	48.7
100.0	53.8	51.2	46.7	35.0	22.0	11.6	2.64	9.47	19.6	31.9	45.2	51.0	54.1	53.2	46.4
105.0	47.7	44.9	33.9	30.5	22.4	10.7	2.55	7.65	19.7	28.8	35.1	44.6	48.0	47.0	36.8
110.0	41.5	35.8	32.0	26.1	18.3	7.83	2.55	4.73	16.6	25.6	31.3	34.9	42.3	36.9	31.4
115.0	39.1	35.1	30.0	23.6	15.9	4.46	2.45	2.82	14.6	22.0	29.5	34.3	39.9	36.3	29.7
120.0	36.5	33.6	28.9	21.8	14.4	3.09	2.45	2.73	12.0	20.5	28.2	33.1	37.4	34.9	28.7
125.0	33.6	31.4	27.5	20.1	10.5	3.00	2.45	2.64	8.83	19.1	26.8	31.4	34.8	33.0	27.6
130.0	30.2	28.4	24.7	16.3	6.92	2.82	2.36	2.27	5.83	15.1	24.3	28.7	31.7	30.4	25.3
135.0	25.6	23.7	19.5	11.2	3.64	2.73	2.36	2.45	3.73	10.7	19.7	24.7	27.6	26.4	21.1
140.0	18.4	16.9	13.3	6.28	3.37	2.45	2.36	2.27	3.46	6.92	14.1	18.3	21.5	20.1	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: 25.3 DEG
 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 T90 CW 120D 7.2W 24V DC IP44D

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 2016000089

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLKS T90 CW 120D 7.2W 24V DC IP44D	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE AKS	DIMENSION: 1005x25x20	SERIAL No.:

UNIT: cd

C (DEG) γ (DEG)	225	240	255	270	285	300	315	330	345
0.0	126	126	126	126	126	126	126	126	126
5.0	127	126	125	125	125	126	127	127	128
10.0	127	126	124	123	124	125	127	129	130
15.0	127	124	122	119	121	124	127	129	130
20.0	125	121	118	114	117	120	125	127	130
25.0	122	117	113	108	112	116	122	125	128
30.0	119	112	107	100	106	111	118	122	126
35.0	114	106	100	92.4	98.8	105	113	119	124
40.0	109	100	92.8	84.1	91.2	98.4	108	115	121
45.0	104	93.2	85.0	75.4	83.3	91.4	103	111	118
50.0	98.1	86.3	77.1	66.5	75.2	84.3	96.7	106	113
55.0	91.9	79.0	68.8	57.5	66.6	76.9	90.2	99.8	109
60.0	85.1	71.5	60.4	48.5	58.2	69.1	83.2	93.6	103
65.0	78.1	63.7	52.0	39.8	49.7	61.2	76.0	86.7	96.3
70.0	70.7	55.9	43.6	30.9	41.1	53.1	68.4	79.2	89.0
75.0	63.2	48.2	35.4	22.6	32.7	45.3	60.5	71.5	80.9
80.0	55.9	40.9	27.8	15.1	25.1	37.9	53.1	63.7	72.9
85.0	48.8	34.2	21.0	8.47	18.3	31.2	46.1	56.2	64.9
90.0	42.3	28.3	15.2	2.73	12.3	25.4	39.7	49.6	57.9
95.0	39.8	26.6	14.0	2.18	11.6	24.3	37.9	47.3	54.9
100.0	36.8	21.3	12.6	2.09	10.2	18.8	34.5	44.8	52.1
105.0	31.5	21.7	11.7	2.09	8.92	19.4	29.5	33.0	46.0
110.0	27.3	18.9	9.01	2.18	5.55	15.3	25.7	30.0	35.3
115.0	24.5	15.3	5.73	2.18	3.46	13.4	22.3	28.3	34.6
120.0	22.5	14.4	3.64	2.18	3.27	11.3	20.7	27.1	33.3
125.0	21.3	10.9	3.37	2.18	3.09	7.65	19.1	25.7	31.3
130.0	18.2	7.56	3.00	2.27	2.73	4.64	15.2	23.0	28.6
135.0	13.1	4.73	2.45	2.27	2.36	3.37	10.2	18.0	24.2
140.0	9.01	3.64	2.91	2.27	2.73	3.18	5.73	12.1	17.4
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 T90 CW 120D 7.2W 24V DC IP44D