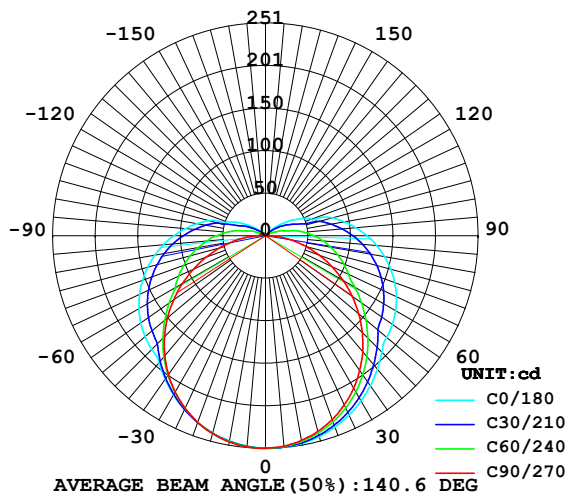
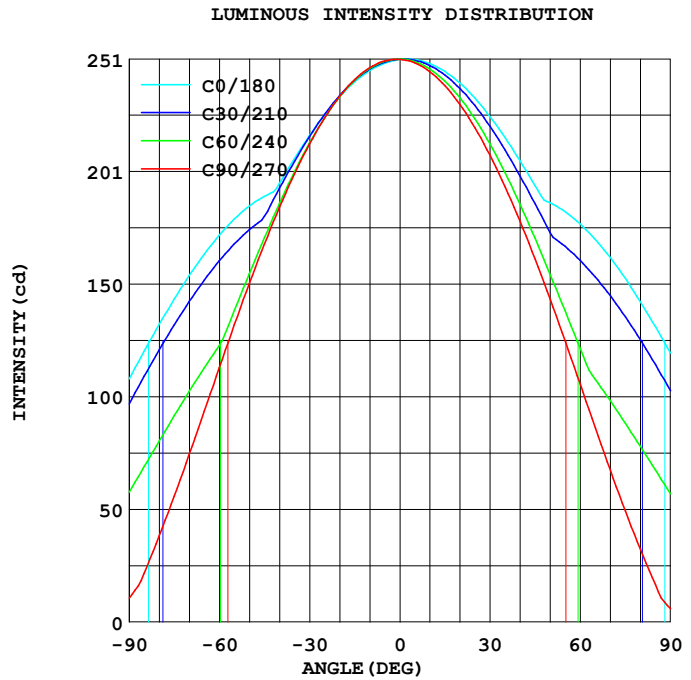


STREETLIGHT PHOTOMETRIC TEST REPORT

Report number: 2016000097

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLCRN T180 CW 120D 14.4W 24V DC IP40D	TYPE: LED LINE	WEIGHT:
SPECIFICATION: LED LINE CRN	DIMENSION: 1015x40x40mm	SERIAL No.:

TEST DATA:					
MODEL:	LLCRN	Imax (cd) :	250.8	η street_up (%) :	6.0
NOMINAL POWER (W) :	14.4	MAXIMUM (C, γ :	210, 1.0	η street_down (%) :	45.8
RATED VOLTAGE (V) :	24	TOTAL FLUX (lm) :	1054	η house_up (%) :	6.9
NOMINAL FLUX (lm) :	1053.6	EFFICIENCY (%) :	100.0	η house_down (%) :	41.4
TEST FLUX (lm) :	1054	η up (%) :	12.9		
LAMPS QUANTITY:	1	η down (%) :	87.1		

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSINTENSITY DISTRIBUTION DIAGRAM
IN C PLANS

Test: U:24.00V I:0.186A P:14.40W PF:0.558

Test System: LSG-1600
 Temperature: 25.3 DEG
 Operators: REGAIP DASTAN
 Test Date: 03-17-2016

Test Set: 2.0 deg/s C-Gamma (TYPE C)
 Humidity: 52.0%
 Test Distance: 9.545 m
 Remarks: LLCRN T180 CW 120D 14.4W 24V IP40D

ZONAL FLUX DIAGRAM

Report number: 2016000097

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLCRN T180 CW 120D 14.4W 24V DC IP40D	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE CRN	DIMENSION: 1015x40x40mm	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total
5.0	248.9	249.3	249.9	249.9	250.4	250.0	248.9	248.9	0- 5	5.975	5.975
10.0	245.6	245.9	246.9	247.3	248.7	247.4	245.0	245.4	5- 10	17.72	23.69
15.0	240.6	240.6	241.6	242.8	245.2	242.8	238.8	239.8	10- 15	28.89	52.59
20.0	234.0	233.3	234.1	236.2	240.0	236.4	230.5	232.3	15- 20	39.12	91.71
25.0	226.0	224.3	224.5	227.8	233.4	228.1	220.1	223.0	20- 25	48.11	139.8
30.0	216.7	213.4	213.0	217.6	225.1	218.0	207.9	212.0	25- 30	55.58	195.4
35.0	206.4	201.3	199.6	205.8	215.7	206.5	193.7	199.5	30- 35	61.35	256.7
40.0	195.4	188.1	184.7	192.7	205.4	193.8	178.4	185.8	35- 40	65.31	322.0
45.0	189.5	174.1	168.3	178.5	194.3	180.1	161.6	171.3	40- 45	67.49	389.5
50.0	185.3	159.6	150.7	163.8	186.6	165.8	143.7	156.2	45- 50	68.35	457.9
55.0	179.5	151.0	132.4	148.4	182.7	151.1	125.1	142.9	50- 55	68.25	526.1
60.0	172.2	142.7	113.3	136.2	177.2	142.9	105.9	134.3	55- 60	67.11	593.3
65.0	163.8	133.6	93.84	128.0	170.3	134.9	86.55	124.9	60- 65	64.87	658.1
70.0	154.3	123.5	74.79	118.8	162.3	126.1	67.69	115.0	65- 70	61.64	719.8
75.0	143.7	112.8	56.03	108.8	153.0	116.7	49.38	104.4	70- 75	57.45	777.2
80.0	132.5	101.7	38.35	98.57	142.5	106.5	32.34	93.38	75- 80	52.54	829.8
85.0	120.6	90.01	21.59	87.64	131.5	95.84	16.58	82.08	80- 85	47.11	876.9
90.0	108.2	78.07	10.65	76.43	119.8	84.72	5.921	70.51	85- 90	41.23	918.1
95.0	95.38	66.05	6.741	65.05	107.5	73.52	3.279	59.03	90- 95	35.33	953.5
100.0	82.36	54.20	6.377	53.93	94.84	62.13	3.279	47.74	95-100	29.45	982.9
105.0	69.15	39.54	6.013	37.90	81.81	47.37	3.279	32.16	100-105	23.27	1006
110.0	48.83	26.87	5.739	28.42	57.57	31.15	3.279	21.13	105-110	16.11	1022
115.0	37.62	17.12	5.466	18.40	48.19	22.32	3.279	12.84	110-115	11.06	1033
120.0	27.14	9.657	5.193	10.84	37.35	14.94	3.279	6.741	115-120	7.878	1041
125.0	17.21	4.737	5.010	5.010	26.87	8.472	3.279	4.555	120-125	5.351	1047
130.0	8.290	4.464	4.737	4.464	17.12	4.646	3.006	4.464	125-130	3.340	1050
135.0	5.010	4.464	4.099	4.373	8.290	4.464	3.006	4.190	130-135	2.071	1052
140.0	4.737	4.373	3.188	4.373	4.737	4.282	3.097	4.008	135-140	1.534	1054
145.0	0	0	0	0	0	0	0	0	140-145	0	1054
150.0	0	0	0	0	0	0	0	0	145-150	0	1054
155.0	0	0	0	0	0	0	0	0	150-155	0	1054
160.0	0	0	0	0	0	0	0	0	155-160	0	1054
165.0	0	0	0	0	0	0	0	0	160-165	0	1054
170.0	0	0	0	0	0	0	0	0	165-170	0	1054
175.0	0	0	0	0	0	0	0	0	170-175	0	1054
180.0	0	0	0	0	0	0	0	0	175-180	0	1054
DEG	LUMINOUS INTENSITY:cd									UNIT: lm	

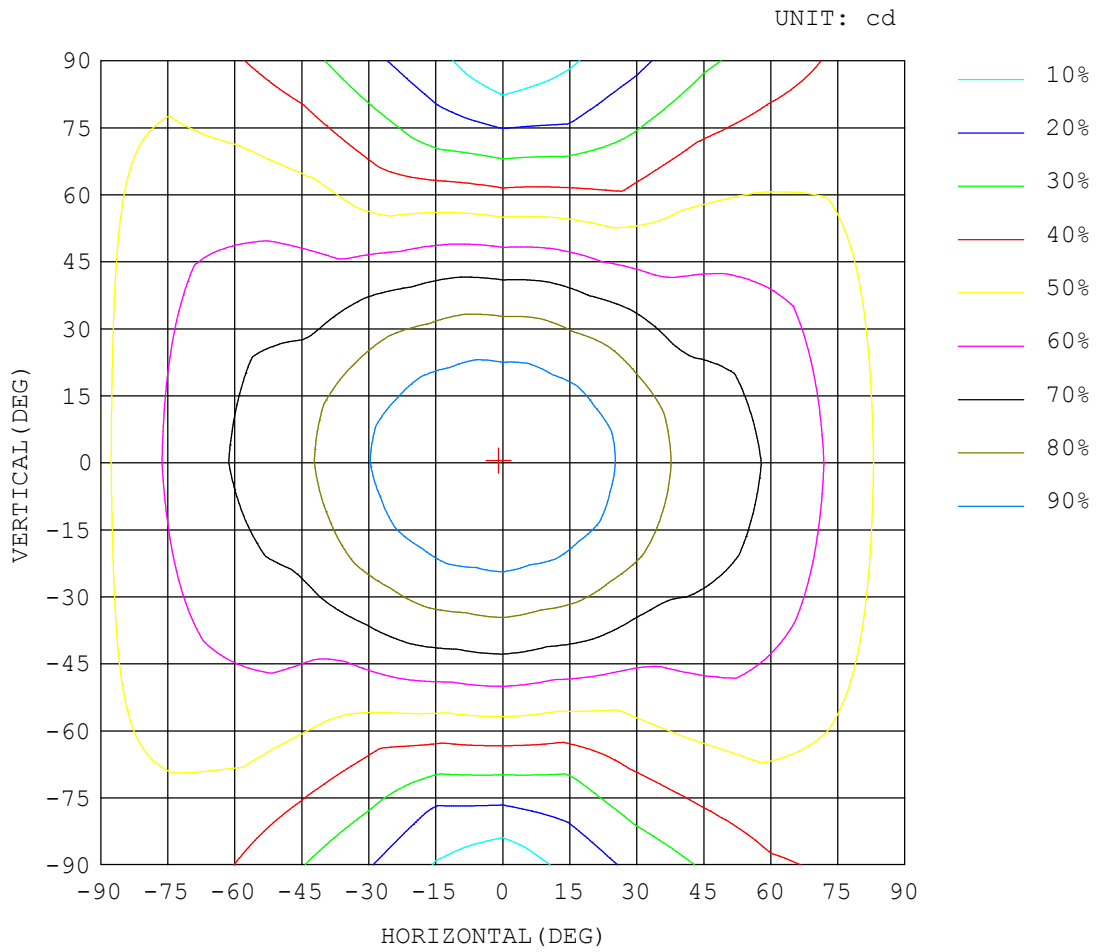
Test System:LSG-1600
Temperature:25.3DEG
Operators:REGAIP DASTAN
Test Date:03-17-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
Humidity:52.0%
Test Distance:9.545 m
Remarks: LLCRN T180 CW 120D 14.4W 24V IP40D

ISOCANDELA DIAGRAM

Report number: 2016000097

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLCRN T180 CW 120D 14.4W 24V DC IP40D	TYPE: LED LINE	WEIGHT:
SPECIFICATION: LED LINE CRN	DIMENSION: 1015x40x40mm	SERIAL No.:



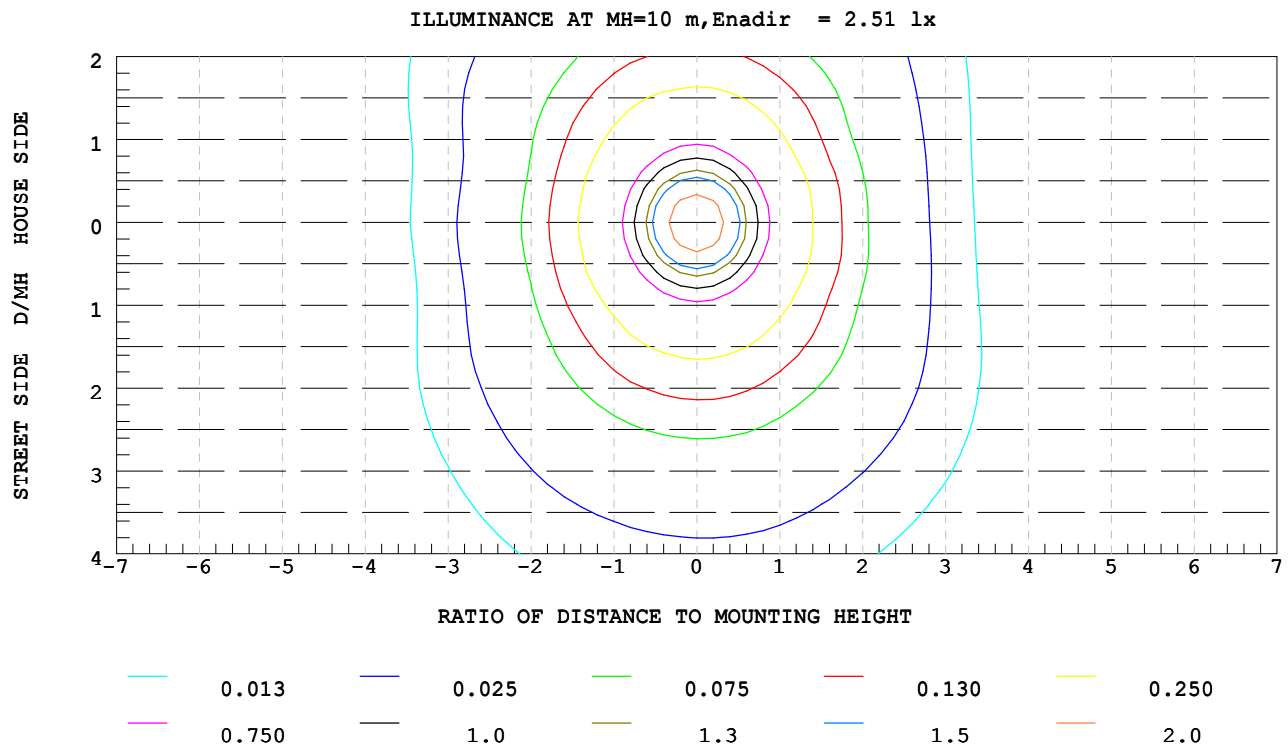
Test System: LSG-1600
Temperature: 25.3 DEG
Operators: REGAIP DASTAN
Test Date: 03-17-2016

Test Set: 2.0 deg/s C-Gamma (TYPE C)
Humidity: 52.0%
Test Distance: 9.545 m
Remarks: LLCRN T180 CW 120D 14.4W 24V IP40D

ISOLUX DIAGRAM

Report number: 2016000097

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLCRN T180 CW 120D 14.4W 24V DC IP40D	TYPE: LED LINE	WEIGHT:
SPECIFICATION: LED LINE CRN	DIMENSION: 1015x40x40mm	SERIAL No.:



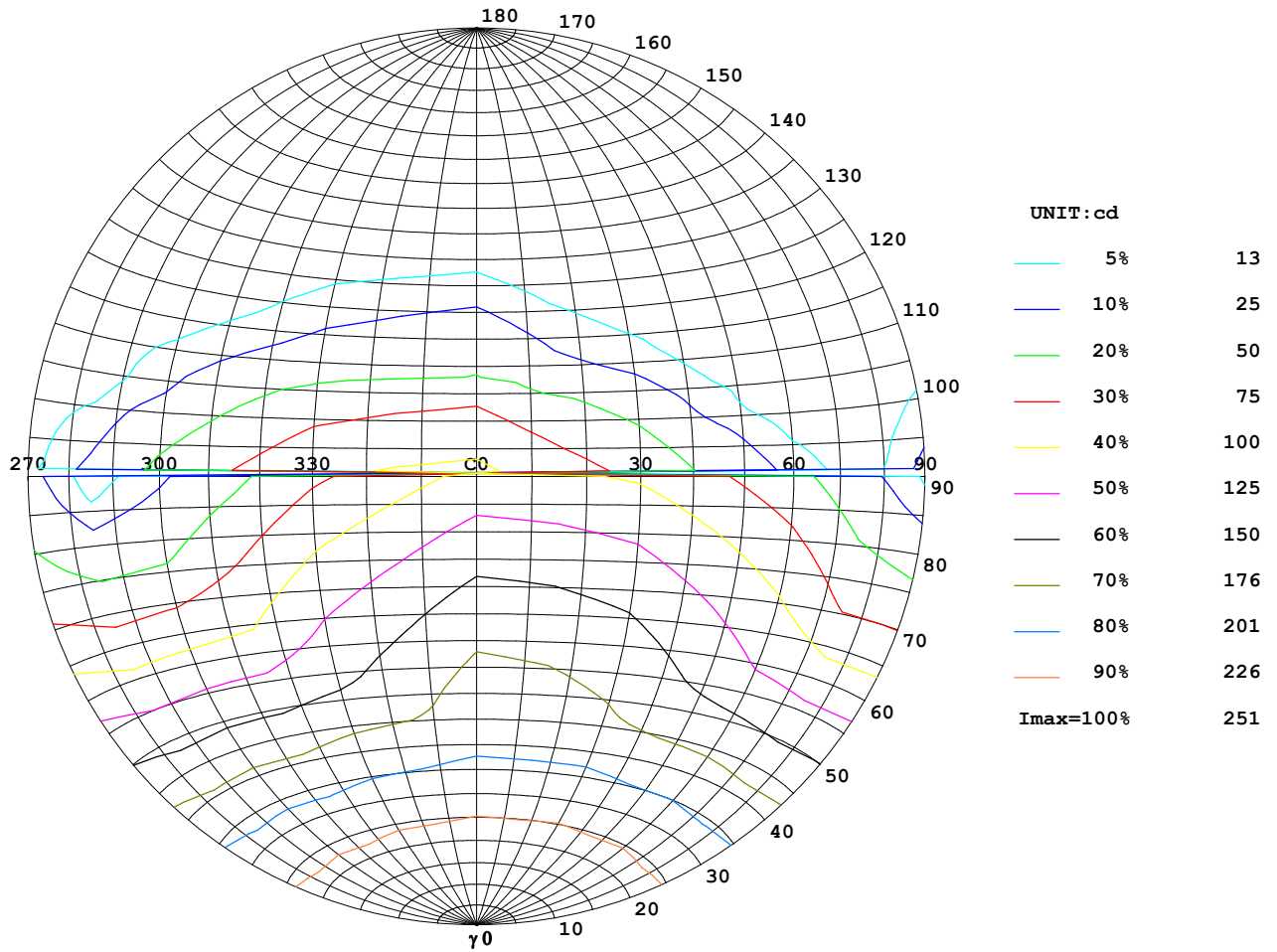
Test System: LSG-1600
Temperature: 25.3 DEG
Operators: REGAIP DASTAN
Test Date: 03-17-2016

Test Set: 2.0 deg/s C-Gamma (TYPE C)
Humidity: 52.0%
Test Distance: 9.545 m
Remarks: LLCRN T180 CW 120D 14.4W 24V IP40D

ISOCANDELA DIAGRAM

Report number: 2016000097

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLCRN T180 CW 120D 14.4W 24V DC IP40D	TYPE: LED LINE	WEIGHT:
SPECIFICATION: LED LINE CRN	DIMENSION: 1015x40x40mm	SERIAL No.:



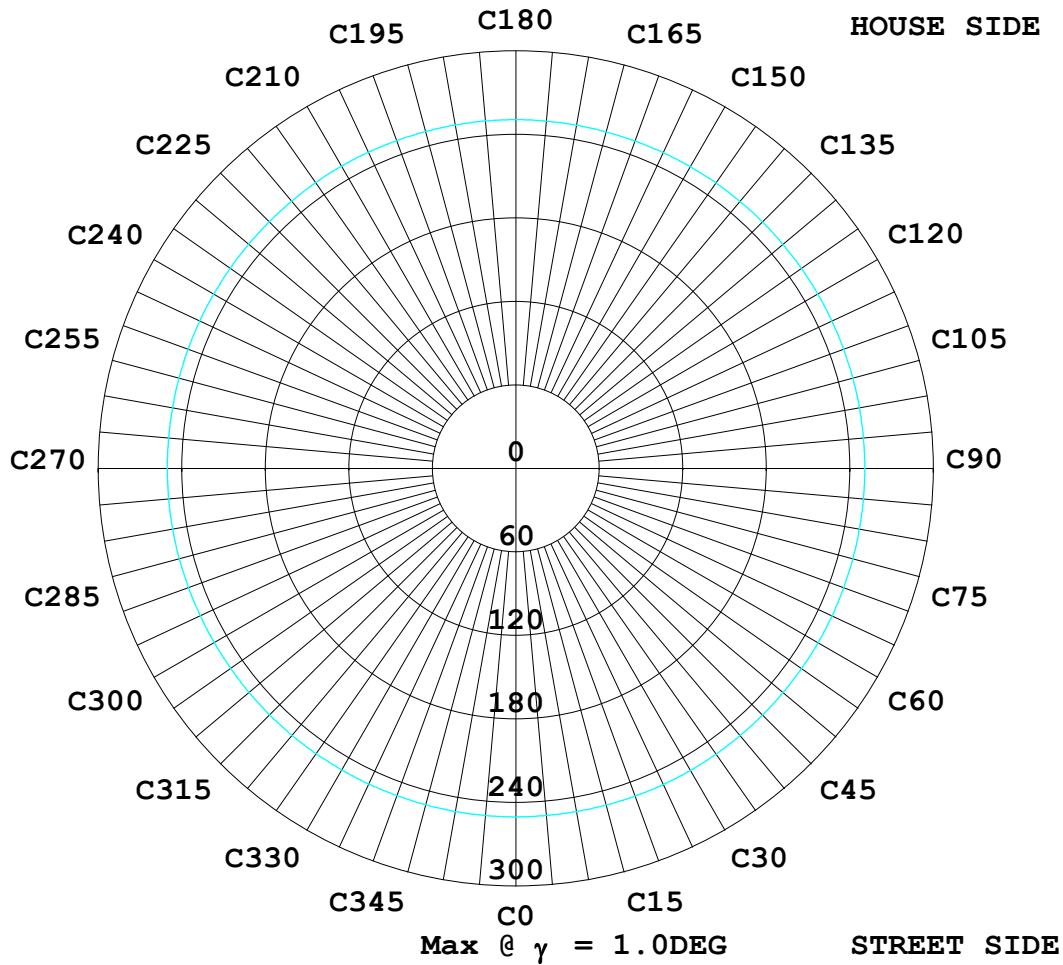
Test System: LSG-1600
Temperature: 25.3 DEG
Operators: REGAIP DASTAN
Test Date: 03-17-2016

Test Set: 2.0 deg/s C-Gamma (TYPE C)
Humidity: 52.0%
Test Distance: 9.545 m
Remarks: LLCRN T180 CW 120D 14.4W 24V IP40D

ISOCANDELA DIAGRAM

Report number: 2016000097

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLCRN T180 CW 120D 14.4W 24V DC IP40D	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE CRN	DIMENSION: 1015x40x40mm	SERIAL No.:



Test System:LSG-1600
Temperature:25.3DEG
Operators:REGAIP DASTAN
Test Date:03-17-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
Humidity:52.0%
Test Distance:9.545 m
Remarks: LLCRN T180 CW 120D 14.4W 24V IP40D

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 2016000097

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLCRN T180 CW 120D 14.4W 24V DC IP40D	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE CRN	DIMENSION: 1015x40x40mm	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	251	251	251	251	251	251	251	251	251	250	250	250	251	251	251
5.0	249	249	249	249	250	250	250	250	250	250	250	250	250	250	250
10.0	246	245	246	246	247	246	247	247	247	247	248	248	249	249	248
15.0	241	240	241	241	241	241	242	241	243	243	244	244	245	245	244
20.0	234	234	235	233	234	233	234	234	236	236	238	238	240	240	238
25.0	226	225	226	224	225	223	225	224	227	228	231	231	233	233	230
30.0	217	216	216	213	213	211	213	213	216	218	222	223	225	225	221
35.0	206	205	205	201	201	198	200	199	204	206	211	213	216	215	210
40.0	195	194	193	188	186	183	185	184	190	193	199	202	205	205	199
45.0	190	187	181	174	171	166	168	168	174	179	187	190	194	193	186
50.0	185	182	175	160	155	149	151	151	158	164	173	181	187	184	173
55.0	180	176	168	151	139	131	132	133	141	148	165	176	183	180	167
60.0	172	169	161	143	123	113	113	114	124	136	158	171	177	175	161
65.0	164	161	152	134	113	94.5	93.8	95.0	107	128	151	164	170	168	154
70.0	154	151	143	124	103	76.2	74.7	76.3	94.2	119	142	155	162	160	145
75.0	144	140	132	113	91.8	63.4	56.0	58.0	83.9	109	133	146	153	151	136
80.0	133	129	121	102	80.5	52.2	38.3	42.6	73.2	98.5	123	135	143	140	126
85.0	121	117	109	90.0	69.2	41.3	21.5	32.6	62.5	87.6	112	124	132	129	115
90.0	108	104	97.1	78.0	57.7	31.2	10.6	23.5	52.0	76.4	100	112	120	118	103
95.0	95.3	91.5	84.6	66.0	46.7	22.0	6.74	15.5	41.7	65.0	88.3	100	108	106	91.1
100.0	82.3	78.5	71.9	54.2	35.1	13.7	6.37	8.29	29.7	53.9	76.3	87.8	94.8	93.2	79.0
105.0	69.1	65.2	58.8	39.5	22.4	5.92	6.01	5.28	20.6	37.9	63.3	74.7	81.8	80.4	66.1
110.0	48.8	41.5	35.8	26.8	15.4	5.19	5.73	5.19	13.0	28.4	40.9	48.1	57.5	52.8	40.3
115.0	37.6	31.9	26.8	17.1	7.65	5.01	5.46	5.01	6.46	18.4	30.6	38.1	48.1	42.9	31.7
120.0	27.1	23.3	18.7	9.65	5.55	4.91	5.19	4.82	5.55	10.8	22.4	30.0	37.3	34.2	23.5
125.0	17.2	14.6	11.2	4.73	5.28	4.73	5.01	4.64	5.28	5.01	15.1	21.4	26.8	25.0	16.3
130.0	8.29	6.37	5.28	4.46	5.01	4.55	4.73	4.55	5.01	4.46	7.74	12.9	17.1	16.0	9.11
135.0	5.01	4.28	4.91	4.46	4.73	3.55	4.09	3.55	4.82	4.37	5.01	4.91	8.29	7.37	4.09
140.0	4.73	4.28	4.64	4.37	4.46	3.18	3.18	3.18	4.55	4.37	4.73	4.19	4.73	4.73	4.19
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:03-17-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
Humidity:52.0%
Test Distance:9.545 m
Remarks: LLCRN T180 CW 120D 14.4W 24V IP40D

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 2016000097

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLCRN T180 CW 120D 14.4W 24V DC IP40D	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE CRN	DIMENSION: 1015x40x40mm	SERIAL No.:

UNIT: cd

C (DEG) γ (DEG)	225	240	255	270	285	300	315	330	345
0.0	251	251	251	251	251	251	250	250	250
5.0	250	250	250	249	249	249	249	249	249
10.0	247	246	246	245	245	245	245	245	246
15.0	243	241	241	239	240	239	240	240	241
20.0	236	234	233	231	231	230	232	233	234
25.0	228	224	223	220	221	220	223	224	226
30.0	218	213	211	208	209	208	212	213	217
35.0	207	200	198	194	195	195	200	202	206
40.0	194	186	183	178	180	180	186	189	195
45.0	180	171	167	162	164	164	171	176	185
50.0	166	155	150	144	146	147	156	167	181
55.0	151	138	132	125	128	130	143	160	175
60.0	143	122	114	106	109	113	134	153	168
65.0	135	108	95.9	86.5	90.7	98.3	125	144	159
70.0	126	98.5	78.0	67.6	72.3	87.7	115	134	150
75.0	117	88.4	61.7	49.3	54.2	76.8	104	124	140
80.0	107	78.1	51.2	32.3	41.4	65.6	93.3	112	128
85.0	95.8	67.6	41.1	16.5	31.1	54.8	82.0	101	117
90.0	84.7	57.1	31.6	5.92	21.7	44.0	70.5	88.5	104
95.0	73.5	46.7	22.8	3.27	13.4	33.8	59.0	76.2	91.5
100.0	62.1	35.8	14.3	3.27	5.64	21.1	47.7	64.0	78.7
105.0	47.3	22.8	7.28	3.27	4.28	14.0	32.1	46.1	65.5
110.0	31.1	16.4	4.37	3.27	4.09	6.55	21.1	29.3	41.3
115.0	22.3	8.10	4.09	3.27	4.00	3.55	12.8	21.5	31.7
120.0	14.9	3.73	4.00	3.27	3.82	3.55	6.74	14.3	23.4
125.0	8.47	3.73	3.91	3.27	3.73	3.55	4.55	7.56	14.8
130.0	4.64	3.82	3.55	3.00	3.55	3.55	4.46	4.00	6.65
135.0	4.46	3.82	3.55	3.00	3.46	3.46	4.19	4.00	4.82
140.0	4.28	3.82	3.37	3.09	3.37	3.46	4.00	3.91	4.55
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:03-17-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity:52.0%
 Test Distance:9.545 m
 Remarks: LLCRN T180 CW 120D 14.4W 24V IP40D