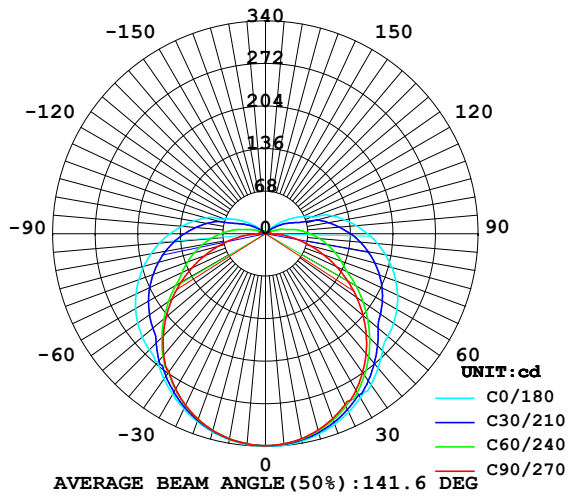
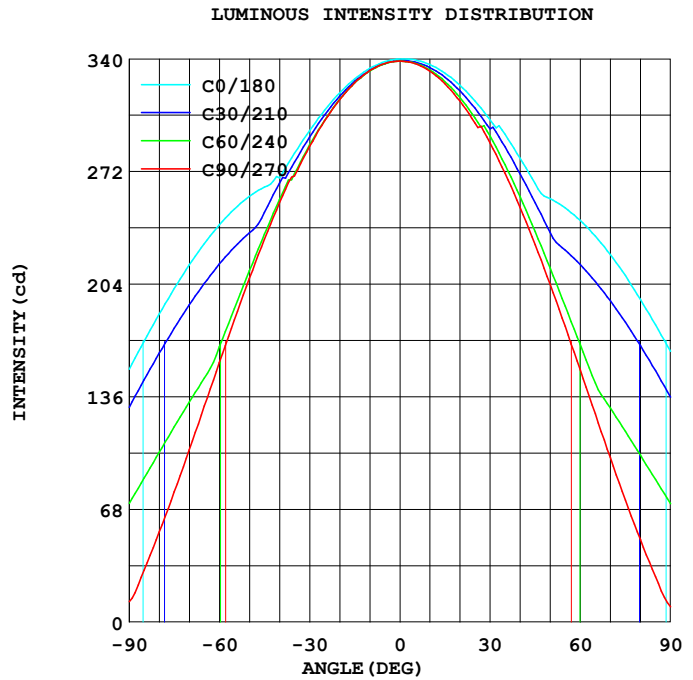


STREETLIGHT PHOTOMETRIC TEST REPORT

Report number: 2016000099

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLCRN PT60 CW 120D 24W 24V DC IP40D	TYPE: LED LINE	WEIGHT: ---
SPECIFICATION: LED LINE CRN	DIMENSION: 1015x40x40mm	SERIAL No.:

TEST DATA:					
MODEL:	LLCRN	Imax (cd) :	340.4	η street_up (%) :	6.2
NOMINAL POWER (W) :	24	MAXIMUM (C, γ :	180, 1.0	η street_down (%) :	46.0
RATED VOLTAGE (V) :	24	TOTAL FLUX (lm) :	1457	η house_up (%) :	6.8
NOMINAL FLUX (lm) :	1457.0	EFFICIENCY (%) :	100.0	η house_down (%) :	41.0
TEST FLUX (lm) :	1457	η up (%) :	13.1		
LAMPS QUANTITY:	1	η down (%) :	86.9		

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSINTENSITY DISTRIBUTION DIAGRAM
IN C PLANS

Test: U: 24.00V I: 0.248A P: 24.00W PF: 0.577

Test System: LSG-1600
 Temperature: 25.3 DEG
 Operators: REGAIP DASTAN
 Test Date: 03-22-2016

Test Set: 2.0 deg/s C-Gamma (TYPE C)
 Humidity: 52.0%
 Test Distance: 9.545 m
 Remarks: LLCRN PT60 CW 120D 24W 24V IP40D

ZONAL FLUX DIAGRAM

Report number: 2016000099

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLCRN PT60 CW 120D 24W 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	338.8	337.0	337.6	337.8	339.9	338.2	337.6	337.7	0- 5	8.092	8.092
10.0	334.7	332.7	333.3	333.9	337.0	334.7	333.0	333.8	5- 10	24.00	32.10
15.0	328.4	325.3	326.0	327.7	331.8	328.5	325.4	326.9	10- 15	39.15	71.25
20.0	319.8	315.6	315.7	318.6	324.4	319.8	315.0	317.7	15- 20	53.06	124.3
25.0	309.3	303.3	302.9	307.3	315.0	308.5	301.7	306.0	20- 25	65.30	189.6
30.0	297.1	293.0	287.5	297.8	303.6	294.9	289.7	291.9	25- 30	75.73	265.3
35.0	283.4	276.2	269.6	281.8	294.9	279.2	271.3	275.9	30- 35	83.98	349.3
40.0	268.4	257.7	253.3	264.2	280.4	265.5	250.6	262.1	35- 40	89.81	439.1
45.0	262.9	238.3	231.4	245.4	265.0	246.4	228.0	242.8	40- 45	93.25	532.4
50.0	257.3	217.9	207.7	225.5	255.9	226.5	204.1	223.0	45- 50	94.53	626.9
55.0	249.6	200.7	182.6	205.0	250.3	205.8	178.6	207.9	50- 55	94.51	721.4
60.0	240.1	189.4	156.8	193.8	242.8	190.5	152.3	196.7	55- 60	93.08	814.5
65.0	228.7	176.6	130.4	182.7	233.4	179.3	125.9	184.4	60- 65	90.05	904.6
70.0	215.8	162.9	104.0	170.3	222.1	166.9	99.30	171.0	65- 70	85.72	990.3
75.0	201.6	148.4	78.62	157.0	209.4	153.6	73.70	156.4	70- 75	79.96	1070
80.0	186.1	133.1	54.20	142.8	195.0	139.7	49.74	141.3	75- 80	73.22	1144
85.0	169.7	117.1	31.34	127.8	179.7	124.9	27.42	125.3	80- 85	65.76	1209
90.0	152.7	100.9	12.20	112.2	163.6	109.6	9.201	109.0	85- 90	57.54	1267
95.0	135.1	84.91	10.47	96.66	146.7	94.20	7.106	92.83	90- 95	49.39	1316
100.0	116.9	68.78	9.748	80.72	129.1	78.53	6.833	76.34	95-100	41.24	1357
105.0	98.57	49.01	9.110	60.03	111.0	57.39	6.650	57.30	100-105	32.65	1390
110.0	70.42	32.61	8.564	41.54	77.89	40.72	6.377	35.98	105-110	22.86	1413
115.0	54.66	20.59	8.108	28.06	64.95	27.42	6.195	24.05	110-115	15.70	1429
120.0	39.72	11.38	7.652	18.03	50.01	17.21	6.013	14.03	115-120	11.21	1440
125.0	25.78	6.468	7.288	9.201	35.53	8.472	5.739	6.924	120-125	7.595	1447
130.0	12.75	6.286	6.924	6.195	21.95	6.650	5.375	6.468	125-130	4.711	1452
135.0	6.286	6.104	4.190	6.013	9.566	6.286	3.644	6.104	130-135	2.741	1455
140.0	5.921	5.921	3.917	5.830	5.921	6.013	3.735	5.739	135-140	2.034	1457
145.0	0	0	0	0	0	0	0	0	140-145	0	1457
150.0	0	0	0	0	0	0	0	0	145-150	0	1457
155.0	0	0	0	0	0	0	0	0	150-155	0	1457
160.0	0	0	0	0	0	0	0	0	155-160	0	1457
165.0	0	0	0	0	0	0	0	0	160-165	0	1457
170.0	0	0	0	0	0	0	0	0	165-170	0	1457
175.0	0	0	0	0	0	0	0	0	170-175	0	1457
180.0	0	0	0	0	0	0	0	0	175-180	0	1457
DEG	LUMINOUS INTENSITY:cd									UNIT: lm	

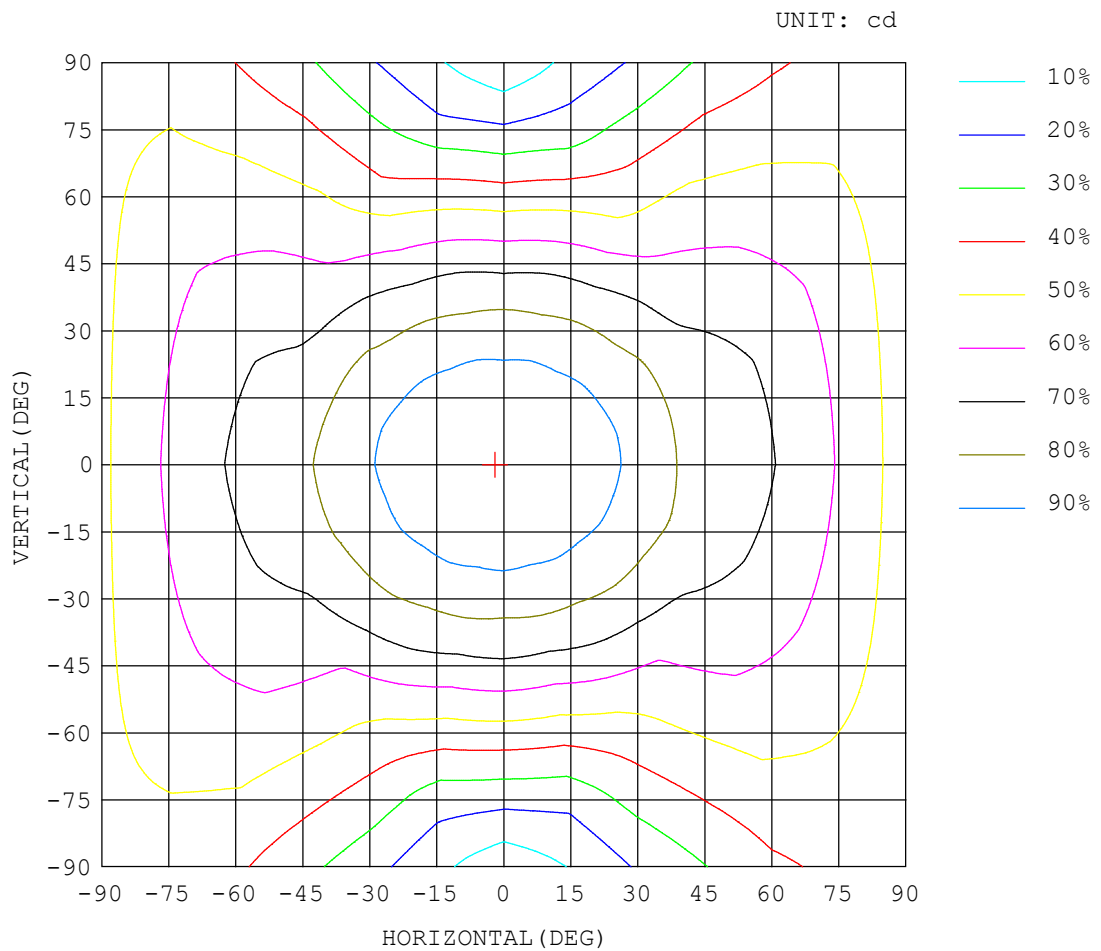
Test System:LSG-1600
 Temperature:25.3DEG
 Operators:REGAIP DASTAN
 Test Date:03-22-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity:52.0%
 Test Distance:9.545 m
 Remarks: LLCRN PT60 CW 120D 24W 24V IP40D

ISOCANDELA DIAGRAM

Report number: 2016000099

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLCRN PT60 CW 120D 24W 24V DC IP40D	TYPE: LED LINE	WEIGHT: ---
SPECIFICATION: LED LINE CRN	DIMENSION: 1015x40x40mm	SERIAL No.:



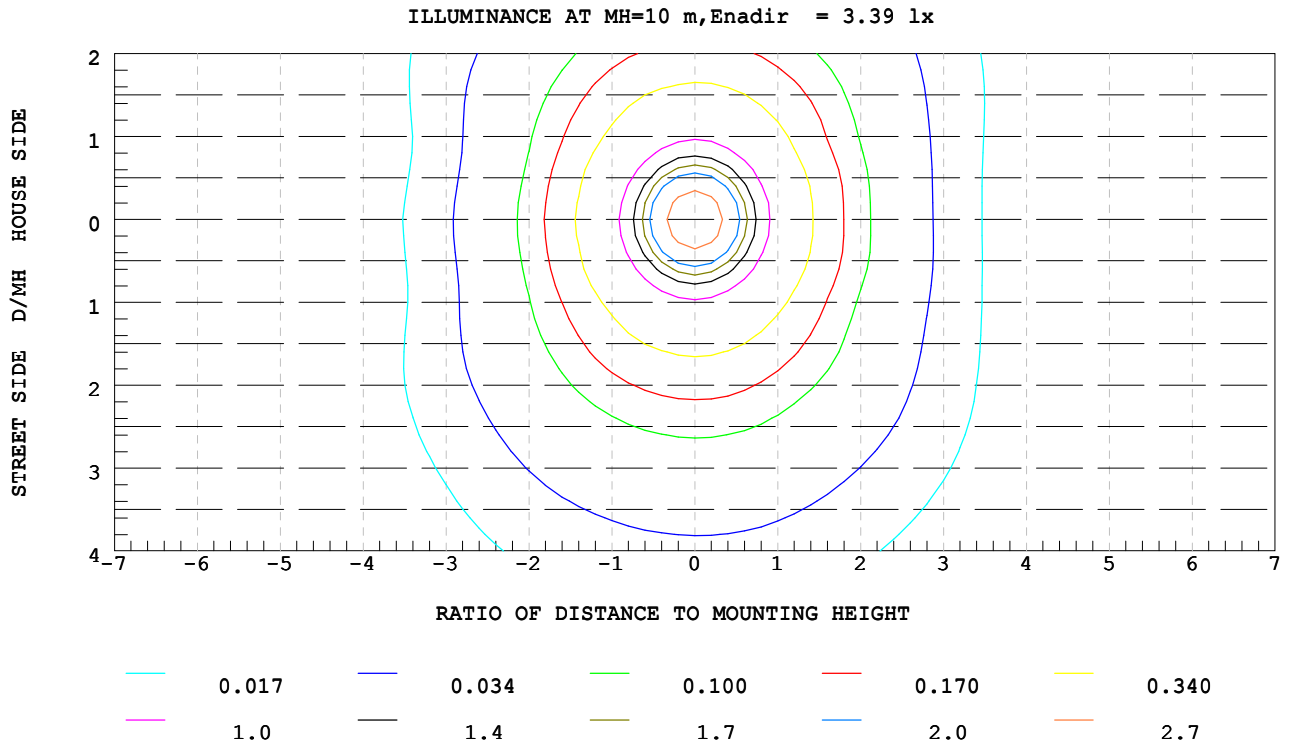
Test System: LSG-1600
Temperature: 25.3 DEG
Operators: REGAIP DASTAN
Test Date: 03-22-2016

Test Set: 2.0 deg/s C-Gamma (TYPE C)
Humidity: 52.0%
Test Distance: 9.545 m
Remarks: LLCRN PT60 CW 120D 24W 24V IP40D

ISOLUX DIAGRAM

Report number: 2016000099

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLCRN PT60 CW 120D 24W 24V DC IP40D	TYPE: LED LINE	WEIGHT: ---
SPECIFICATION: LED LINE CRN	DIMENSION: 1015x40x40mm	SERIAL No.:



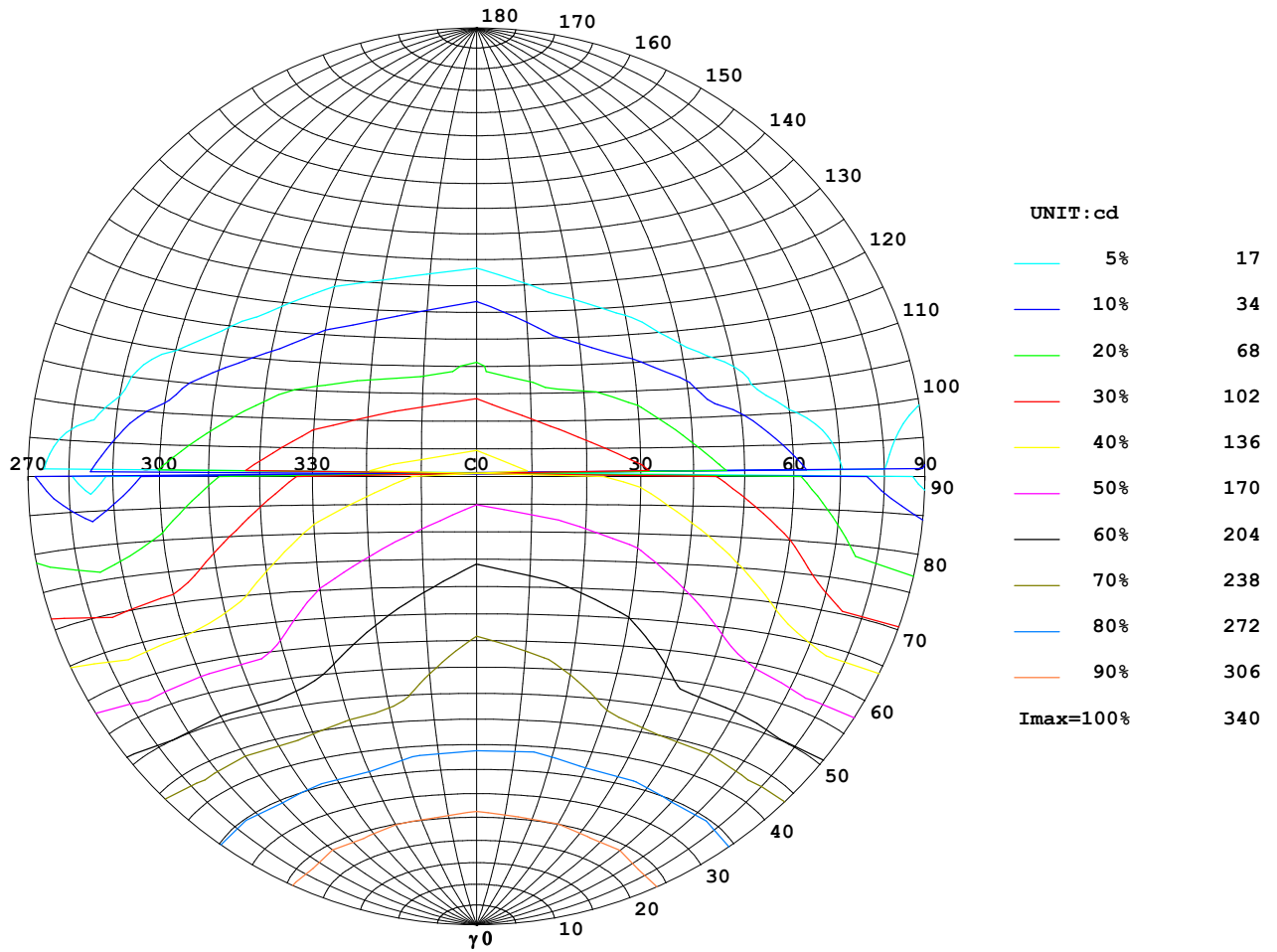
Test System: LSG-1600
Temperature: 25.3 DEG
Operators: REGAIP DASTAN
Test Date: 03-22-2016

Test Set: 2.0 deg/s C-Gamma (TYPE C)
Humidity: 52.0%
Test Distance: 9.545 m
Remarks: LLCRN PT60 CW 120D 24W 24V IP40D

ISOCANDELA DIAGRAM

Report number: 2016000099

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLCRN PT60 CW 120D 24W 24V DC IP40D	TYPE: LED LINE	WEIGHT: ---
SPECIFICATION: LED LINE CRN	DIMENSION: 1015x40x40mm	SERIAL No.:



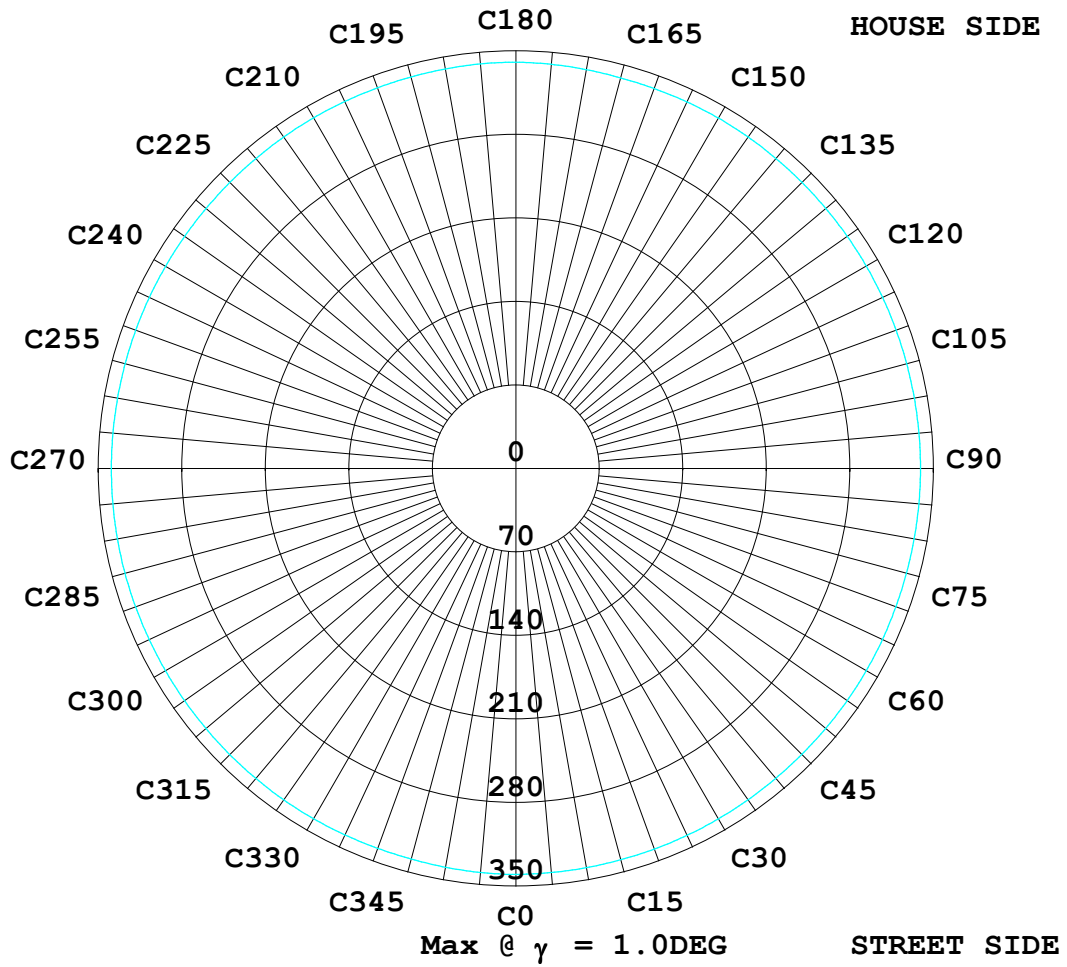
Test System: LSG-1600
Temperature: 25.3 DEG
Operators: REGAIP DASTAN
Test Date: 03-22-2016

Test Set: 2.0 deg/s C-Gamma (TYPE C)
Humidity: 52.0%
Test Distance: 9.545 m
Remarks: LLCRN PT60 CW 120D 24W 24V IP40D

ISOCANDELA DIAGRAM

Report number: 2016000099

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLCRN PT60 CW 120D 24W 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: 03-22-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity: 52.0%
 Test Distance: 9.545 m
 Remarks: LLCRN PT60 CW 120D 24W 24V IP40D

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 2016000099

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLCRN PT60 CW 120D 24W 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	340	340	339	339	339	339	339	339	339	339	339	339	340	340	339
5.0	339	338	338	337	338	337	338	338	338	338	338	338	340	339	339
10.0	335	334	334	333	333	332	333	333	334	334	335	335	337	336	335
15.0	328	327	327	325	326	325	326	326	327	328	329	329	332	331	329
20.0	320	318	318	316	316	314	316	316	318	319	321	322	324	324	321
25.0	309	307	307	303	303	301	303	303	306	307	311	312	315	314	311
30.0	297	299	293	293	288	289	288	291	292	298	299	300	304	302	298
35.0	283	284	278	276	271	271	270	273	275	282	284	290	295	289	287
40.0	268	269	265	258	255	250	253	253	260	264	268	276	280	274	271
45.0	263	255	248	238	235	228	231	231	240	245	256	260	265	262	254
50.0	257	250	235	218	212	205	208	208	218	226	238	249	256	250	236
55.0	250	242	227	201	189	180	183	183	196	205	229	243	250	244	225
60.0	240	232	216	189	166	155	157	159	173	194	221	235	243	236	216
65.0	229	220	205	177	147	129	130	133	152	183	211	226	233	227	206
70.0	216	207	192	163	133	104	104	108	139	170	200	215	222	216	194
75.0	202	193	178	148	118	79.5	78.6	84.0	125	157	187	202	209	203	181
80.0	186	177	162	133	102	63.5	54.2	69.2	110	143	173	187	195	189	167
85.0	170	161	146	117	87.0	49.0	31.3	55.1	95.5	128	158	172	180	174	152
90.0	153	144	130	101	71.7	35.6	12.2	41.9	80.8	112	142	156	164	158	136
95.0	135	126	113	84.9	57.0	23.8	10.4	30.0	66.1	96.6	126	139	147	141	120
100.0	117	108	95.6	68.7	40.5	12.9	9.74	18.9	49.6	80.7	109	122	129	124	103
105.0	98.5	90.0	75.4	49.0	27.5	8.19	9.11	9.01	33.8	60.0	91.7	104	111	106	85.2
110.0	70.4	58.9	48.0	32.6	16.5	7.83	8.56	7.74	24.0	41.5	57.8	68.8	77.8	70.6	52.4
115.0	54.6	43.8	35.8	20.5	8.47	7.47	8.10	7.47	12.9	28.0	45.0	54.5	64.9	55.7	40.8
120.0	39.7	32.0	24.5	11.3	7.92	7.10	7.65	7.10	8.01	18.0	33.2	42.6	50.0	43.9	29.4
125.0	25.7	20.3	14.3	6.46	7.56	6.83	7.28	6.74	7.56	9.20	22.7	30.3	35.5	31.5	19.4
130.0	12.7	8.92	7.01	6.28	7.10	6.55	6.92	6.46	7.10	6.19	12.1	18.1	21.9	19.1	9.29
135.0	6.28	5.46	6.55	6.10	6.65	3.82	4.19	3.82	6.83	6.01	6.65	6.83	9.56	7.56	5.64
140.0	5.92	5.46	6.19	5.92	6.28	4.64	3.91	4.28	6.37	5.83	6.28	5.28	5.92	6.01	5.55
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:03-22-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
Humidity:52.0%
Test Distance:9.545 m
Remarks: LLCRN PT60 CW 120D 24W 24V IP40D

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 2016000099

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLCRN PT60 CW 120D 24W 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	339	339	339	339	339	339	339	339	339
5.0	338	338	338	338	338	338	338	338	338
10.0	335	334	334	333	334	333	334	334	334
15.0	329	327	327	325	327	326	327	327	328
20.0	320	317	317	315	317	316	318	318	319
25.0	309	305	304	302	304	303	306	307	309
30.0	295	294	289	290	288	292	292	298	297
35.0	279	277	271	271	270	274	276	283	283
40.0	266	257	255	251	254	255	262	266	268
45.0	246	236	233	228	232	234	243	249	259
50.0	227	214	210	204	209	211	223	238	253
55.0	206	191	186	179	184	189	208	229	246
60.0	191	168	160	152	159	166	197	219	236
65.0	179	144	135	126	134	150	184	208	225
70.0	167	129	109	99.3	109	135	171	194	212
75.0	154	115	84.3	73.7	86.9	120	156	180	198
80.0	140	101	64.7	49.7	71.5	105	141	165	183
85.0	125	86.1	50.6	27.4	56.5	89.4	125	148	166
90.0	110	71.6	37.5	9.20	42.6	73.9	109	131	149
95.0	94.2	57.5	25.9	7.10	30.0	59.1	92.8	114	132
100.0	78.5	40.9	15.3	6.83	18.0	43.3	76.3	96.6	114
105.0	57.3	28.3	8.01	6.65	8.10	26.9	57.3	78.4	95.4
110.0	40.7	17.8	7.56	6.37	7.56	17.5	35.9	47.7	63.7
115.0	27.4	8.65	7.10	6.19	7.10	7.01	24.0	35.0	48.1
120.0	17.2	6.19	6.83	6.01	6.83	5.92	14.0	24.0	35.7
125.0	8.47	6.01	6.46	5.73	6.55	5.83	6.92	14.0	23.2
130.0	6.65	6.01	5.55	5.37	5.73	5.64	6.46	5.64	11.2
135.0	6.28	5.73	4.19	3.64	4.37	5.37	6.10	5.46	6.19
140.0	6.01	5.64	4.19	3.73	4.64	5.28	5.73	5.37	5.92
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:03-22-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity:52.0%
 Test Distance:9.545 m
 Remarks: LLCRN PT60 CW 120D 24W 24V IP40D