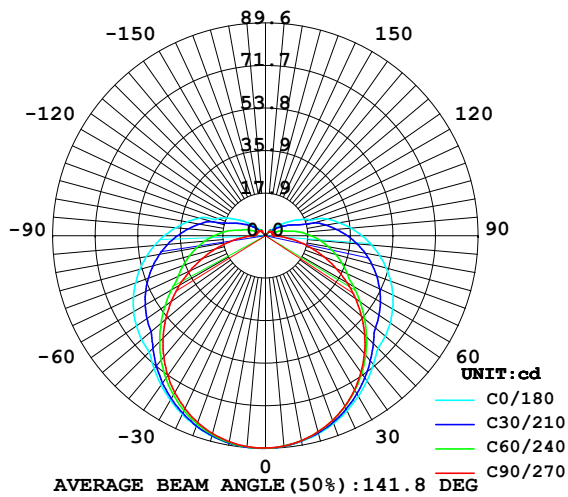
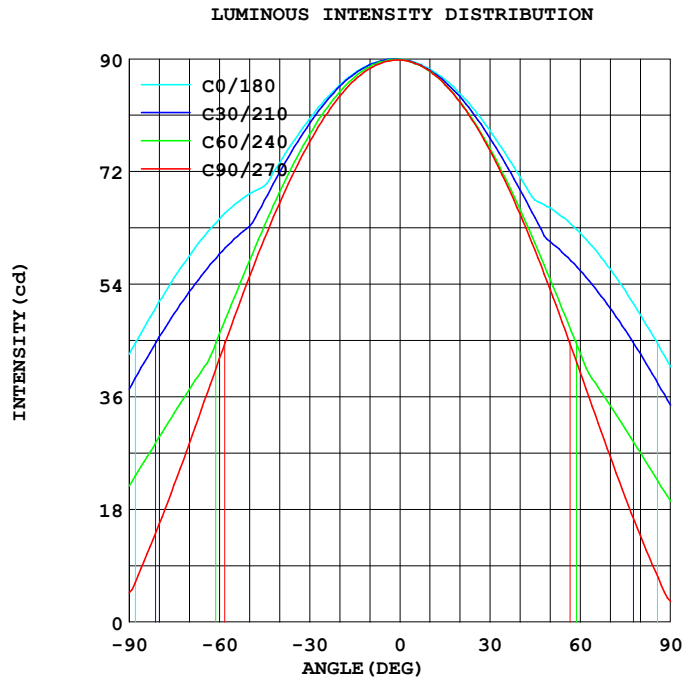


STREETLIGHT PHOTOMETRIC TEST REPORT

Report number: 2016000095

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLCRN T60 CW 120D 4.8W 24V DC IP40D	TYPE: LED LINE	WEIGHT:
SPECIFICATION: LED LINE CRN	DIMENSION: 1010x40x40mm	SERIAL No.:

TEST DATA:					
MODEL:	LLCRN	Imax (cd) :	89.64	η street_up (%) :	7.5
NOMINAL POWER (W) :	4.8	MAXIMUM (C, γ :	0,1.0	η street_down (%) :	46.2
RATED VOLTAGE (V) :	24	TOTAL FLUX (lm) :	389.6	η house_up (%) :	6.8
NOMINAL FLUX (lm) :	389.7	EFFICIENCY (%) :	100.0	η house_down (%) :	39.5
TEST FLUX (lm) :	389.6	η up (%) :	14.3		
LAMPS QUANTITY:	1	η down (%) :	85.7		

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSINTENSITY DISTRIBUTION DIAGRAM
IN C PLANS

Test: U:24.00V I:0.101A P:4.800W PF:0.494

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

Test Set: 2.0deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 9.545 m
 Remarks: LLCRN T60 CW 120D 4.8W 24V IP40D

ZONAL FLUX DIAGRAM

Report number: 2016000095

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLCRN T60 CW 120D 4.8W 24V DC IP40D	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE CRN	DIMENSION: 1010x40x40mm	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total
5.0	89.46	89.28	89.19	88.92	89.10	89.19	88.92	89.28	0- 5	2.135	2.135
10.0	88.73	88.28	88.10	87.73	88.00	88.10	87.73	88.55	5- 10	6.335	8.470
15.0	87.37	86.64	86.27	85.82	86.36	86.27	85.54	87.00	10- 15	10.33	18.80
20.0	85.54	84.36	83.72	83.27	84.09	83.81	82.81	84.72	15- 20	14.00	32.81
25.0	83.08	81.26	80.44	80.08	81.44	80.72	79.26	81.90	20- 25	17.24	50.05
30.0	80.08	77.71	76.43	76.25	78.26	76.98	75.07	78.35	25- 30	19.95	70.01
35.0	76.71	73.61	71.79	72.06	74.70	72.70	70.24	74.34	30- 35	22.06	92.07
40.0	73.06	68.96	66.59	67.32	70.88	68.05	64.95	69.78	35- 40	23.53	115.6
45.0	69.42	64.13	61.04	62.40	67.14	63.13	59.12	64.95	40- 45	24.36	139.9
50.0	68.14	58.94	54.93	57.30	65.96	58.03	52.93	59.85	45- 50	24.72	164.6
55.0	66.41	53.84	48.56	52.65	64.23	53.20	46.46	54.75	50- 55	24.78	189.4
60.0	64.13	51.11	41.90	49.92	61.95	50.38	39.72	51.83	55- 60	24.46	213.9
65.0	61.40	48.01	35.16	46.82	59.31	47.28	32.98	48.83	60- 65	23.71	237.6
70.0	58.21	44.64	28.33	43.36	56.21	44.00	26.32	45.46	65- 70	22.64	260.3
75.0	54.84	41.08	21.86	39.81	52.75	40.45	19.77	41.90	70- 75	21.18	281.4
80.0	51.01	37.26	15.57	35.98	48.92	36.71	13.75	38.17	75- 80	19.48	300.9
85.0	46.82	33.34	9.657	32.06	44.91	32.79	8.017	34.25	80- 85	17.58	318.5
90.0	42.63	29.24	4.646	28.06	40.63	28.69	3.279	30.15	85- 90	15.48	334.0
95.0	38.17	25.14	4.373	23.96	36.35	24.69	3.188	26.14	90- 95	13.41	347.4
100.0	33.61	21.13	4.190	19.95	31.79	20.59	3.188	22.04	95-100	11.31	358.7
105.0	28.88	15.48	4.008	14.39	27.14	15.03	3.188	16.49	100-105	9.078	367.8
110.0	21.59	11.20	3.826	10.56	19.58	10.84	3.097	11.75	105-110	6.517	374.3
115.0	17.58	8.017	3.644	7.288	16.12	7.652	3.006	8.655	110-115	4.772	379.1
120.0	13.57	5.557	3.644	4.828	12.39	5.193	3.006	6.013	115-120	3.604	382.7
125.0	9.839	3.370	3.462	3.097	8.837	3.462	2.915	3.644	120-125	2.647	385.3
130.0	6.468	3.188	3.370	3.097	5.557	3.279	2.824	3.279	125-130	1.868	387.2
135.0	3.462	3.097	2.550	3.006	3.097	3.188	2.368	3.188	130-135	1.307	388.5
140.0	3.188	3.097	2.550	3.006	3.097	3.097	2.459	3.097	135-140	1.101	389.6
145.0	0	0	0	0	0	0	0	0	140-145	0	389.6
150.0	0	0	0	0	0	0	0	0	145-150	0	389.6
155.0	0	0	0	0	0	0	0	0	150-155	0	389.6
160.0	0	0	0	0	0	0	0	0	155-160	0	389.6
165.0	0	0	0	0	0	0	0	0	160-165	0	389.6
170.0	0	0	0	0	0	0	0	0	165-170	0	389.6
175.0	0	0	0	0	0	0	0	0	170-175	0	389.6
180.0	0	0	0	0	0	0	0	0	175-180	0	389.6
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

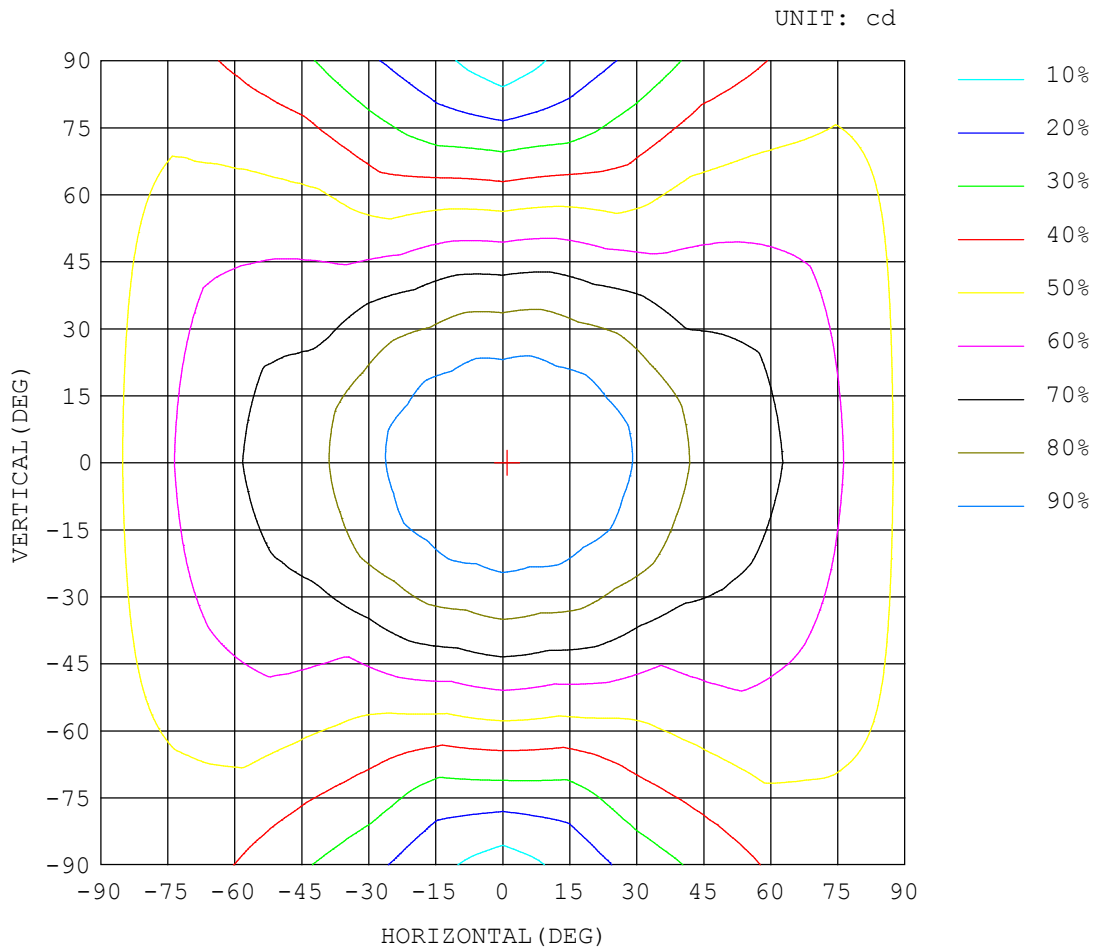
Test System:LSG-1600
Temperature:25.3DEG
Operators:REGAIP DASTAN
Test Date:03-17-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:9.545 m
Remarks: LLCRN T60 CW 120D 4.8W 24V IP40D

ISOCANDELA DIAGRAM

Report number: 2016000095

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLCRN T60 CW 120D 4.8W 24V DC IP40D	TYPE: LED LINE	WEIGHT:
SPECIFICATION: LED LINE CRN	DIMENSION: 1010x40x40mm	SERIAL No.:



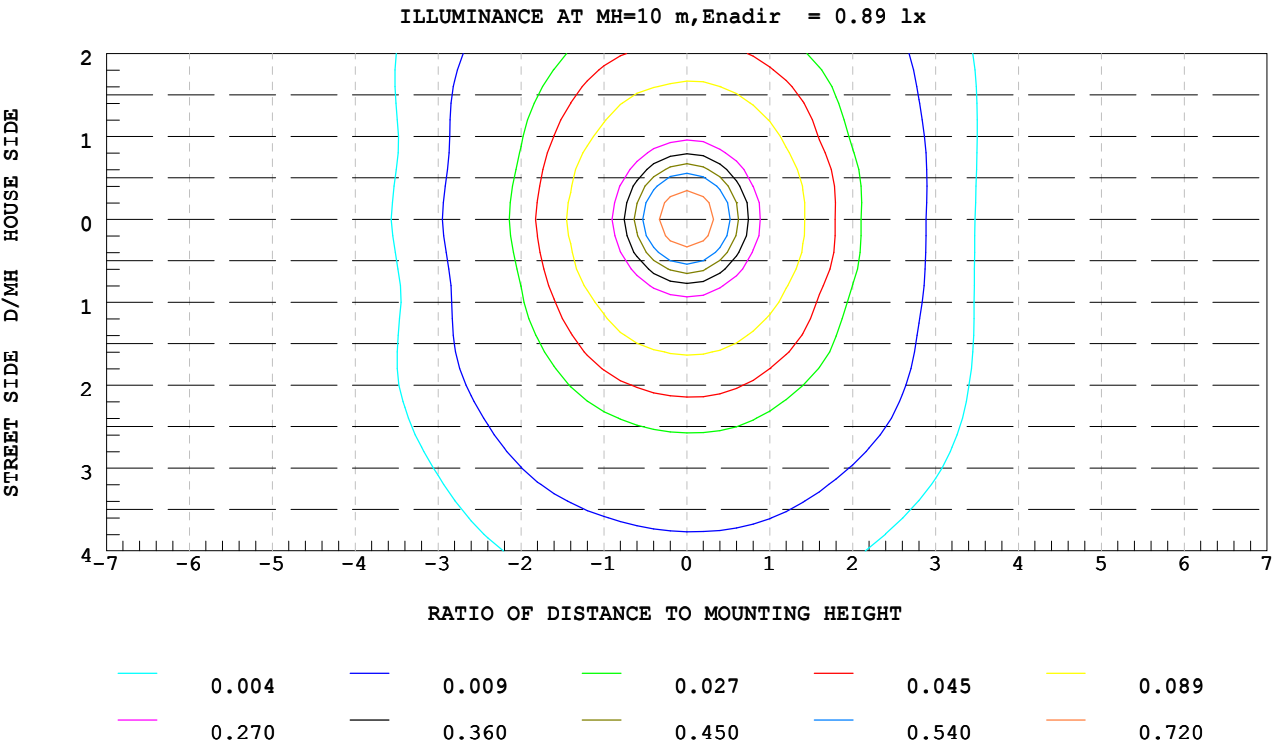
Test System: LSG-1600
Temperature: 25.3 DEG
Operators: REGAIP DASTAN
Test Date: 03-17-2016

Test Set: 2.0 deg/s C-Gamma (TYPE C)
Humidity: 65.0%
Test Distance: 9.545 m
Remarks: LLCRN T60 CW 120D 4.8W 24V IP40D

ISOLUX DIAGRAM

Report number: 2016000095

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLCRN T60 CW 120D 4.8W 24V DC IP40D	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE CRN	DIMENSION: 1010x40x40mm	SERIAL No.:



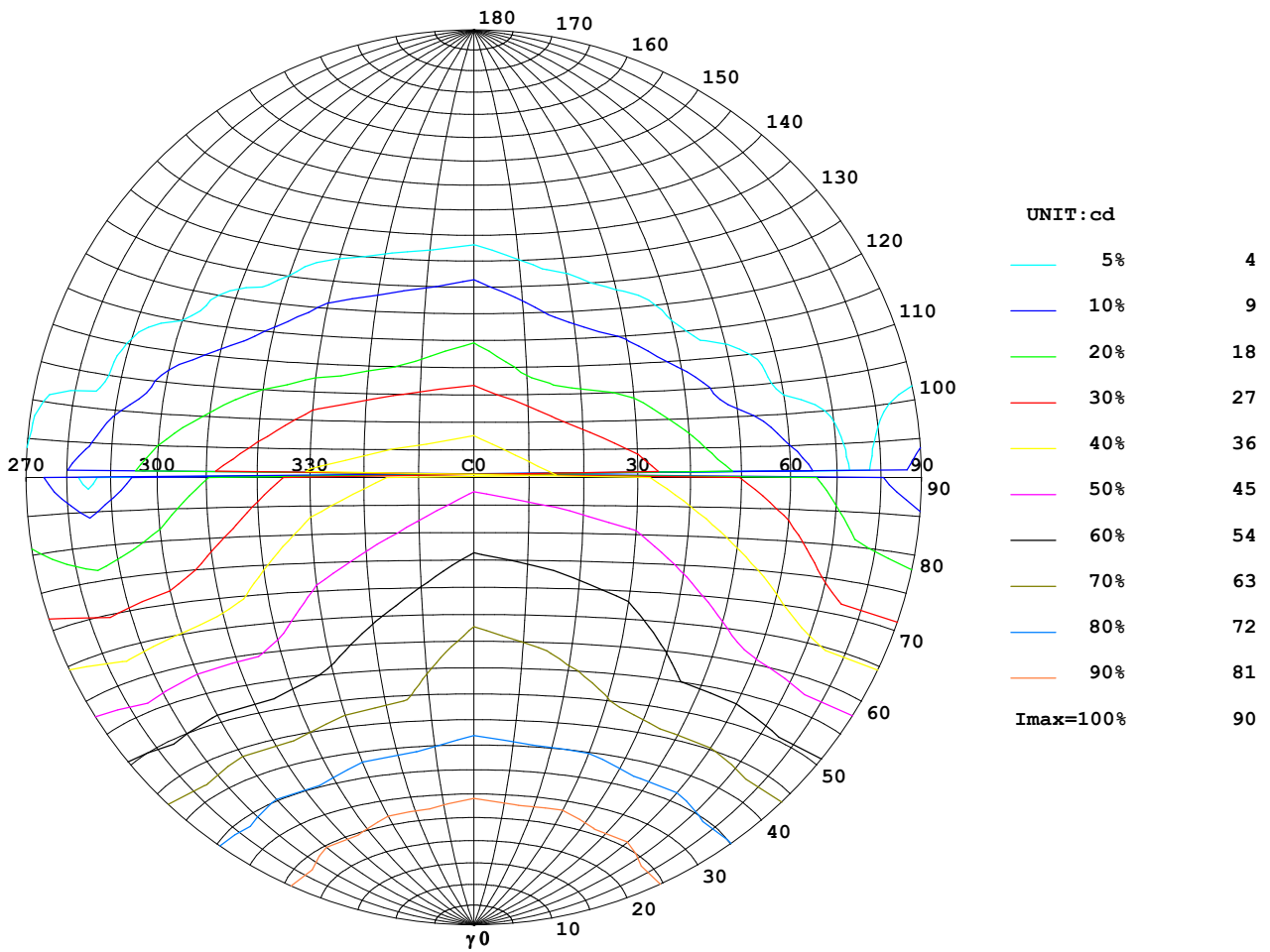
Test System:LSG-1600
Temperature:25.3DEG
Operators:REGAIP DASTAN
Test Date:03-17-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:9.545 m
Remarks: LLCRN T60 CW 120D 4.8W 24V IP40D

ISOCANDELA DIAGRAM

Report number: 2016000095

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLCRN T60 CW 120D 4.8W 24V DC IP40D	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE CRN	DIMENSION: 1010x40x40mm	SERIAL No.:



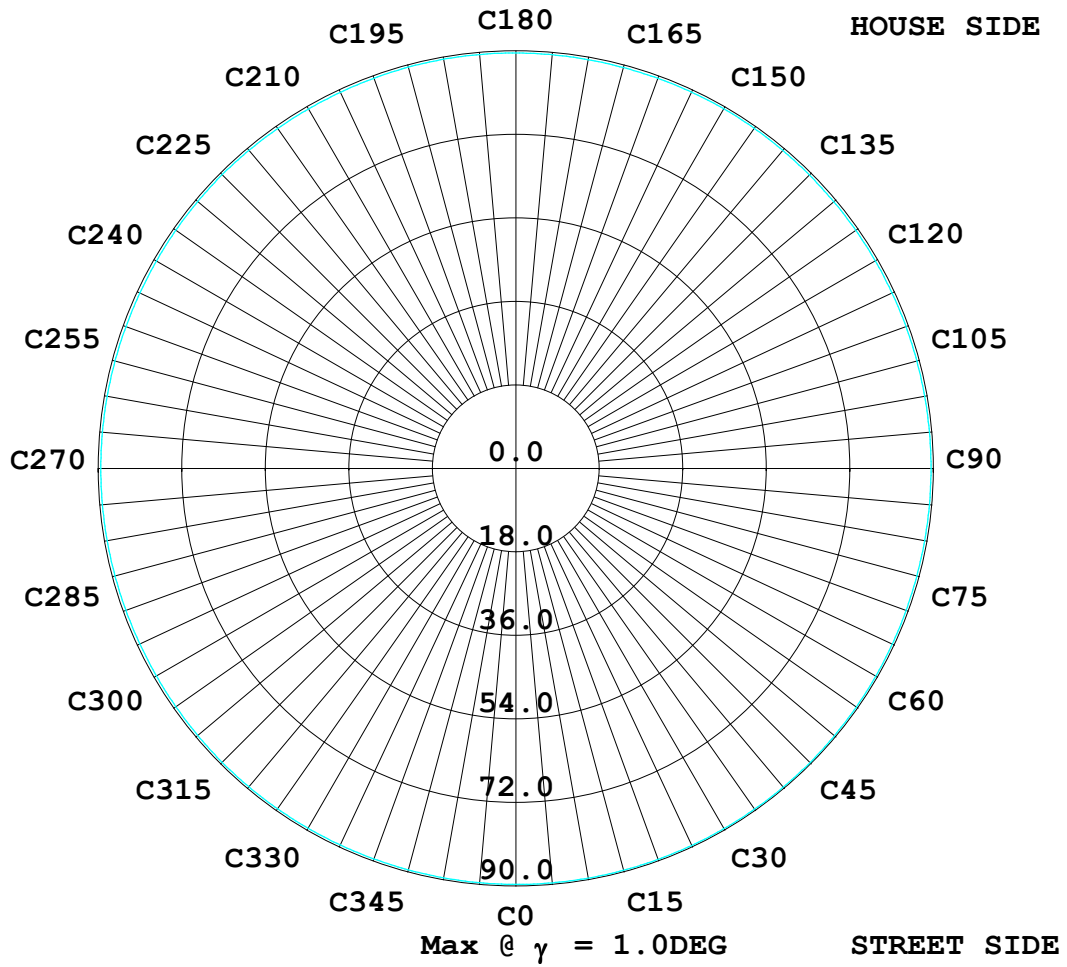
Test System:LSG-1600
Temperature:25.3DEG
Operators:REGAIP DASTAN
Test Date:03-17-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:9.545 m
Remarks: LLCRN T60 CW 120D 4.8W 24V IP40D

ISOCANDELA DIAGRAM

Report number: 2016000095

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLCRN T60 CW 120D 4.8W 24V DC IP40D	TYPE: LED LINE	WEIGHT:
SPECIFICATION: LED LINE CRN	DIMENSION: 1010x40x40mm	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: 65.0%
 Test Distance: 9.545 m
 Remarks: LLCRN T60 CW 120D 4.8W 24V IP40D

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 2016000095

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLCRN T60 CW 120D 4.8W 24V DC IP40D	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE CRN	DIMENSION: 1010x40x40mm	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	89.5	89.5	89.5	89.5	89.5	89.5	89.4	89.4	89.4	89.4	89.5	89.5	89.5	89.5	89.5
5.0	89.4	89.3	89.4	89.2	89.2	89.1	89.1	88.9	89.1	88.9	89.1	89.0	89.1	89.1	89.0
10.0	88.7	88.4	88.7	88.2	88.3	87.9	88.1	87.6	88.0	87.7	88.1	87.8	88.0	88.1	87.8
15.0	87.3	87.0	87.2	86.6	86.7	86.0	86.2	85.7	86.1	85.8	86.3	86.0	86.3	86.6	86.0
20.0	85.5	85.0	85.2	84.3	84.3	83.3	83.7	82.9	83.6	83.2	84.0	83.7	84.0	84.4	83.6
25.0	83.0	82.4	82.5	81.2	81.3	79.9	80.4	79.4	80.3	80.0	81.1	80.9	81.4	81.6	80.5
30.0	80.0	79.3	79.3	77.7	77.6	75.9	76.4	75.4	76.5	76.2	77.7	77.6	78.2	78.4	76.9
35.0	76.7	75.8	75.7	73.6	73.2	71.3	71.7	70.6	72.1	72.0	73.8	73.8	74.7	74.8	73.0
40.0	73.0	71.9	71.5	68.9	68.4	66.0	66.5	65.5	67.1	67.3	69.6	69.9	70.8	70.9	68.7
45.0	69.4	67.9	67.1	64.1	63.0	60.4	61.0	59.8	61.8	62.4	65.2	65.9	67.1	66.7	64.3
50.0	68.1	66.1	62.9	58.9	57.4	54.4	54.9	53.7	56.2	57.3	61.5	64.4	65.9	65.1	60.5
55.0	66.4	64.3	61.0	53.8	51.6	48.1	48.5	47.4	50.4	52.6	59.5	62.5	64.2	63.3	58.3
60.0	64.1	61.9	58.5	51.1	45.8	41.7	41.9	41.0	44.5	49.9	57.1	60.2	61.9	61.1	55.9
65.0	61.4	59.1	55.6	48.0	40.6	35.2	35.1	34.7	39.8	46.8	54.2	57.4	59.3	58.3	53.1
70.0	58.2	55.9	52.5	44.6	36.9	28.7	28.3	28.2	36.1	43.3	51.1	54.3	56.2	55.3	49.9
75.0	54.8	52.4	49.1	41.0	33.2	22.6	21.8	22.0	32.5	39.8	47.6	50.9	52.7	52.0	46.4
80.0	51.0	48.6	45.3	37.2	29.4	18.6	15.5	18.2	28.5	35.9	43.9	47.1	48.9	48.2	42.7
85.0	46.8	44.4	41.2	33.3	25.5	15.0	9.65	14.5	24.5	32.0	39.9	43.0	44.9	44.1	38.7
90.0	42.6	40.1	37.0	29.2	21.6	11.5	4.64	11.1	20.7	28.0	35.8	38.9	40.6	40.0	34.5
95.0	38.1	35.8	32.7	25.1	17.9	8.65	4.37	8.10	16.9	23.9	31.5	34.5	36.3	35.7	30.2
100.0	33.6	31.2	28.4	21.1	13.3	5.73	4.19	5.28	12.4	19.9	27.2	30.0	31.7	31.2	25.9
105.0	28.8	26.6	22.7	15.4	10.0	3.55	4.00	3.55	9.20	14.3	22.5	25.5	27.1	26.6	21.3
110.0	21.5	17.8	15.4	11.2	7.01	3.46	3.82	3.46	6.37	10.5	14.7	16.8	19.5	17.8	13.4
115.0	17.5	14.4	12.3	8.01	4.46	3.37	3.64	3.37	3.91	7.28	11.6	13.5	16.1	14.4	10.5
120.0	13.5	11.3	9.47	5.55	3.73	3.37	3.64	3.27	3.64	4.82	8.65	10.5	12.3	11.3	7.74
125.0	9.83	8.19	6.74	3.37	3.64	3.27	3.46	3.18	3.55	3.09	6.01	7.56	8.83	8.19	5.37
130.0	6.46	5.28	4.00	3.18	3.46	3.18	3.37	3.09	3.37	3.09	3.46	4.55	5.55	5.10	3.00
135.0	3.46	3.00	3.37	3.09	3.27	2.55	2.55	2.45	3.27	3.00	3.37	2.91	3.09	3.37	3.00
140.0	3.18	3.00	3.18	3.09	3.18	2.73	2.55	2.55	3.18	3.00	3.18	2.91	3.09	3.18	3.00
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:65.0%
 Test Distance:9.545 m
 Remarks: LLCRN T60 CW 120D 4.8W 24V IP40D

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 2016000095

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLCRN T60 CW 120D 4.8W 24V DC IP40D	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE CRN	DIMENSION: 1010x40x40mm	SERIAL No.:

UNIT: cd

C (DEG) γ (DEG)	225	240	255	270	285	300	315	330	345
0.0	89.5	89.5	89.5	89.4	89.4	89.4	89.4	89.5	89.5
5.0	89.1	88.9	89.1	88.9	89.1	89.1	89.2	89.3	89.4
10.0	88.1	87.6	88.0	87.7	88.1	88.0	88.5	88.4	88.7
15.0	86.2	85.5	86.0	85.5	86.2	86.1	87.0	87.0	87.4
20.0	83.8	82.8	83.3	82.8	83.8	83.6	84.7	84.8	85.6
25.0	80.7	79.4	79.9	79.2	80.4	80.3	81.9	82.0	83.1
30.0	76.9	75.3	75.8	75.0	76.4	76.4	78.3	78.7	80.1
35.0	72.7	70.7	71.2	70.2	71.9	71.9	74.3	74.9	76.8
40.0	68.0	65.6	66.0	64.9	66.7	67.0	69.7	70.7	72.9
45.0	63.1	60.2	60.4	59.1	61.2	61.5	64.9	66.4	68.9
50.0	58.0	54.5	54.4	52.9	55.3	55.9	59.8	62.3	67.0
55.0	53.2	48.7	48.1	46.4	49.0	50.1	54.7	60.2	65.3
60.0	50.3	42.8	41.7	39.7	42.5	44.1	51.8	57.7	63.0
65.0	47.2	38.0	35.2	32.9	36.0	39.0	48.8	54.9	60.4
70.0	44.0	34.4	28.7	26.3	29.6	35.4	45.4	51.7	57.2
75.0	40.4	30.7	22.5	19.7	23.3	31.7	41.9	48.1	53.7
80.0	36.7	26.9	18.5	13.7	19.3	28.0	38.1	44.3	49.9
85.0	32.7	23.0	14.8	8.01	15.5	24.2	34.2	40.3	45.8
90.0	28.6	19.2	11.3	3.27	12.1	20.4	30.1	36.1	41.5
95.0	24.6	15.5	8.29	3.18	9.01	16.6	26.1	31.8	37.2
100.0	20.5	11.2	5.46	3.18	6.10	12.3	22.0	27.4	32.6
105.0	15.0	8.10	3.73	3.18	3.73	9.01	16.4	21.9	27.9
110.0	10.8	5.37	3.55	3.09	3.55	6.10	11.7	14.4	19.0
115.0	7.65	3.09	3.37	3.00	3.46	3.64	8.65	11.5	15.3
120.0	5.19	3.00	3.37	3.00	3.37	2.91	6.01	8.74	12.2
125.0	3.46	3.00	3.27	2.91	3.27	3.00	3.64	6.10	9.01
130.0	3.27	3.00	2.91	2.82	3.00	2.91	3.27	3.55	5.83
135.0	3.18	3.00	2.64	2.36	2.64	2.91	3.18	2.91	3.37
140.0	3.09	2.91	2.64	2.45	2.73	2.82	3.09	2.91	3.18
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:65.0%
 Test Distance:9.545 m
 Remarks: LLCRN T60 CW 120D 4.8W 24V IP40D