

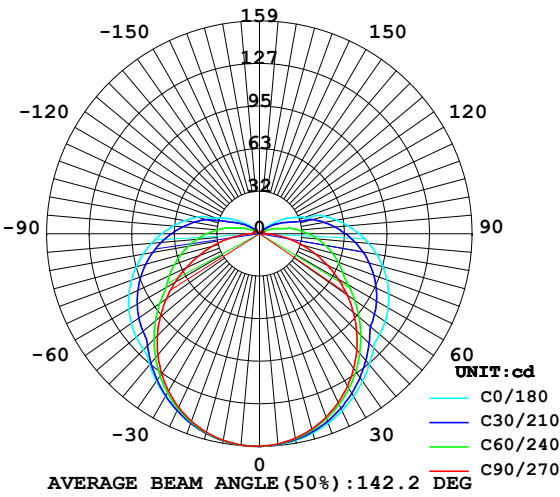
STREETLIGHT PHOTOMETRIC TEST REPORT

Report number: 2016000101

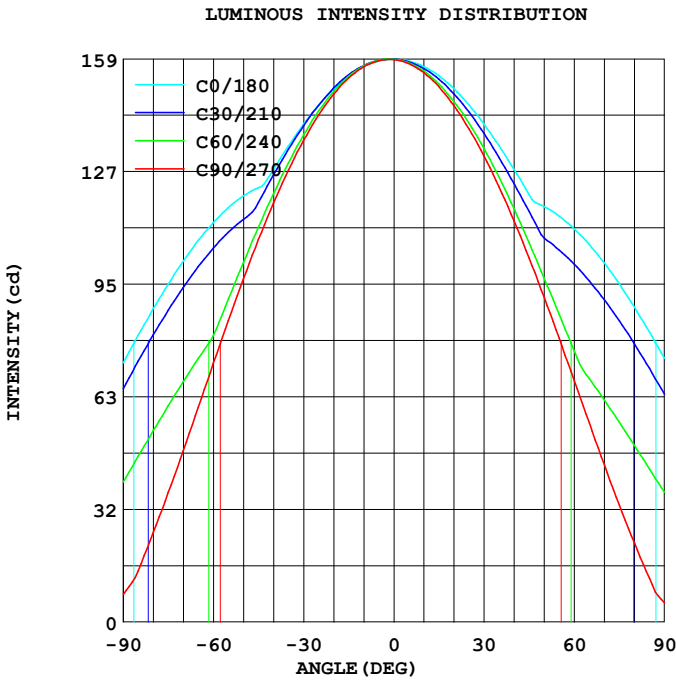
MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLCRN BT45 CW 120D 10.8W 24V DC IP40D	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE CRN	DIMENSION: 1015x40x40mm	SERIAL No.:

TEST DATA:					
MODEL:	LLCRN	Imax (cd) :	158.6	η street_up (%) :	6.7
NOMINAL POWER (W) :	10.8	MAXIMUM (C, γ :	0,0.0	η street_down (%) :	46.1
RATED VOLTAGE (V) :	24	TOTAL FLUX (lm) :	725	η house_up (%) :	6.8
NOMINAL FLUX (lm) :	725.3	EFFICIENCY (%) :	100.0	η house_down (%) :	40.4
TEST FLUX (lm:	725	η up (%) :	13.5		
LAMPS QUANTITY:	1	η down (%) :	86.5		

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANS



INTENSITY DISTRIBUTION DIAGRAM
IN C PLANS



Test:U:24.00V I:0.149A P:10.80W PF:0.534

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 BT45 CW 120D 10.8W 24V DC IP4

ZONAL FLUX DIAGRAM

Report number: 2016000101

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLCRN BT45 CW 120D 10.8W 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	158.0	158.0	158.1	157.8	158.0	157.8	157.3	157.7	0- 5	3.780	3.780
10.0	156.5	156.3	156.4	156.0	156.4	155.9	154.7	155.7	5- 10	11.21	14.99
15.0	153.8	153.4	153.2	152.9	153.8	152.7	150.7	152.5	10- 15	18.28	33.28
20.0	150.2	149.2	148.6	148.6	150.2	148.5	145.4	148.1	15- 20	24.77	58.06
25.0	145.6	143.7	142.7	143.2	145.6	143.0	138.9	142.4	20- 25	30.49	88.55
30.0	140.3	137.3	135.6	136.5	140.3	136.5	131.2	135.8	25- 30	35.25	123.8
35.0	134.1	130.1	127.2	129.0	134.2	129.2	122.5	128.2	30- 35	38.95	162.7
40.0	127.4	121.9	117.9	120.5	127.4	121.1	112.9	119.8	35- 40	41.51	204.2
45.0	122.3	113.3	107.7	111.6	120.3	112.6	102.4	110.9	40- 45	42.94	247.2
50.0	120.0	104.2	96.66	102.3	116.9	103.6	91.47	101.6	45- 50	43.51	290.7
55.0	116.7	98.03	84.91	92.47	114.3	94.84	79.90	92.20	50- 55	43.55	334.2
60.0	112.5	93.02	72.88	85.91	110.6	90.28	67.96	86.55	55- 60	42.90	377.2
65.0	107.5	87.46	60.49	80.62	106.3	85.27	56.12	80.99	60- 65	41.55	418.7
70.0	101.5	81.17	48.19	74.61	101.1	79.62	44.27	74.70	65- 70	39.56	458.3
75.0	95.11	74.61	36.44	68.33	95.29	73.61	32.88	68.33	70- 75	36.97	495.3
80.0	88.19	67.60	25.14	61.67	88.64	67.23	22.32	61.58	75- 80	33.90	529.2
85.0	80.72	60.22	14.30	54.75	81.63	60.58	12.29	54.48	80- 85	30.49	559.7
90.0	72.97	52.65	7.744	47.64	74.25	53.57	5.375	47.28	85- 90	26.80	586.5
95.0	64.86	45.00	5.193	40.54	66.59	46.55	2.915	40.17	90- 95	23.06	609.5
100.0	56.57	37.44	4.919	33.34	58.58	39.35	3.006	32.88	95-100	19.34	628.9
105.0	48.10	28.51	4.646	23.32	50.29	30.70	3.006	24.05	100-105	15.47	644.3
110.0	34.52	19.95	4.464	17.67	35.16	19.31	3.006	15.30	105-110	10.97	655.3
115.0	27.33	13.48	4.282	11.93	29.24	14.48	3.006	10.65	110-115	7.625	662.9
120.0	20.49	8.108	4.099	6.924	22.59	9.839	3.006	6.377	115-120	5.522	668.5
125.0	14.12	4.190	4.008	3.644	16.21	5.830	2.824	4.008	120-125	3.860	672.3
130.0	8.108	3.826	3.826	3.644	10.29	4.008	2.733	3.917	125-130	2.530	674.9
135.0	4.373	3.735	3.644	3.553	4.919	3.826	2.824	3.644	130-135	1.663	676.5
140.0	4.099	3.735	3.644	3.553	4.008	3.644	2.915	3.553	135-140	1.350	725.3
145.0	0	0	0	0	0	0	0	0	140-145	0	
150.0	0	0	0	0	0	0	0	0	145-150	0	
155.0	0	0	0	0	0	0	0	0	150-155	0	
160.0	0	0	0	0	0	0	0	0	155-160	0	
165.0	0	0	0	0	0	0	0	0	160-165	0	
170.0	0	0	0	0	0	0	0	0	165-170	0	
175.0	0	0	0	0	0	0	0	0	170-175	0	
180.0	0	0	0	0	0	0	0	0	175-180	0	
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

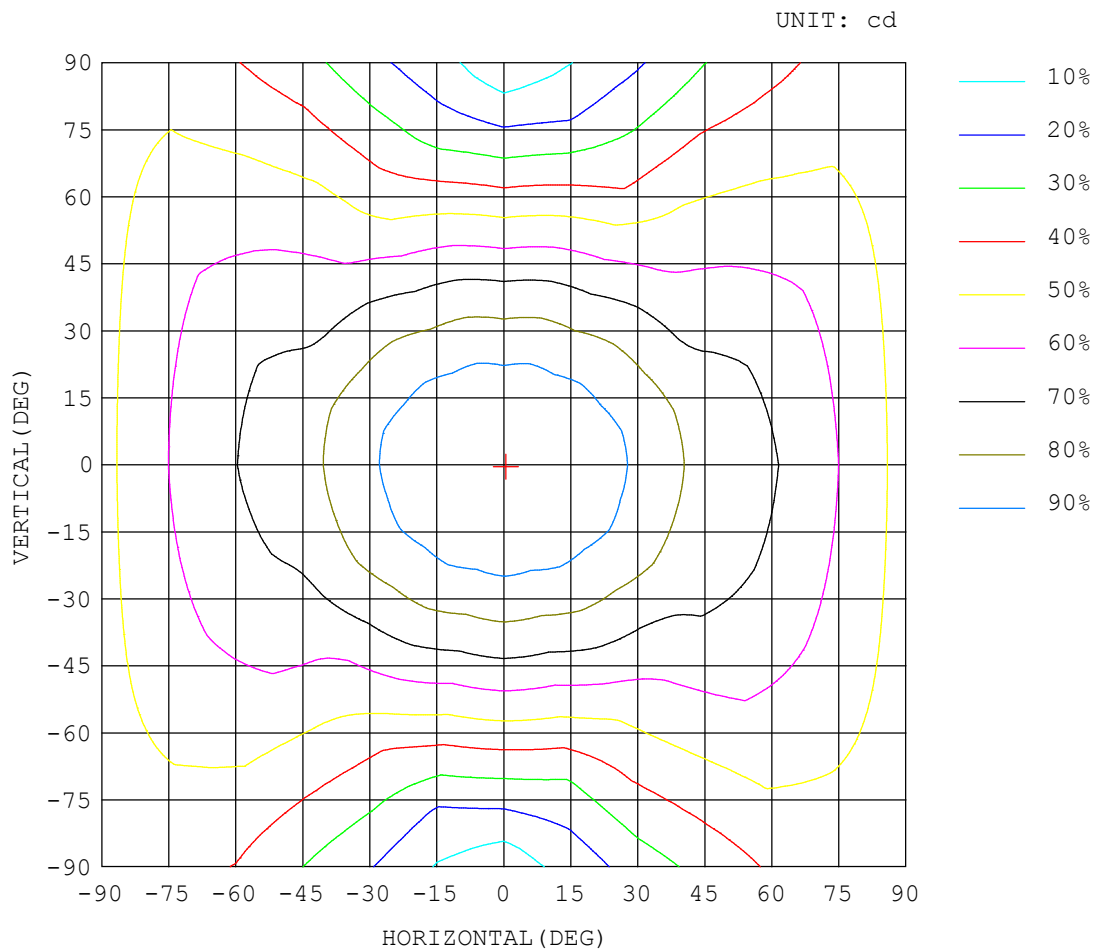
Test System:LSG-1600
Temperature:25.3DEG
Operators:REGAIP DASTAN
Test Date:03-22-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
Humidity:52.0%
Test Distance:9.545 m
Remarks: LLCRN BT45 CW 120D 10.8W 24V DC IP4

ISOCANDELA DIAGRAM

Report number: 2016000101

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLCRN BT45 CW 120D 10.8W 24V DC IP40D	TYPE: LED LINE	WEIGHT:
SPECIFICATION: LED LINE CRN	DIMENSION: 1015x40x40mm	SERIAL No.:



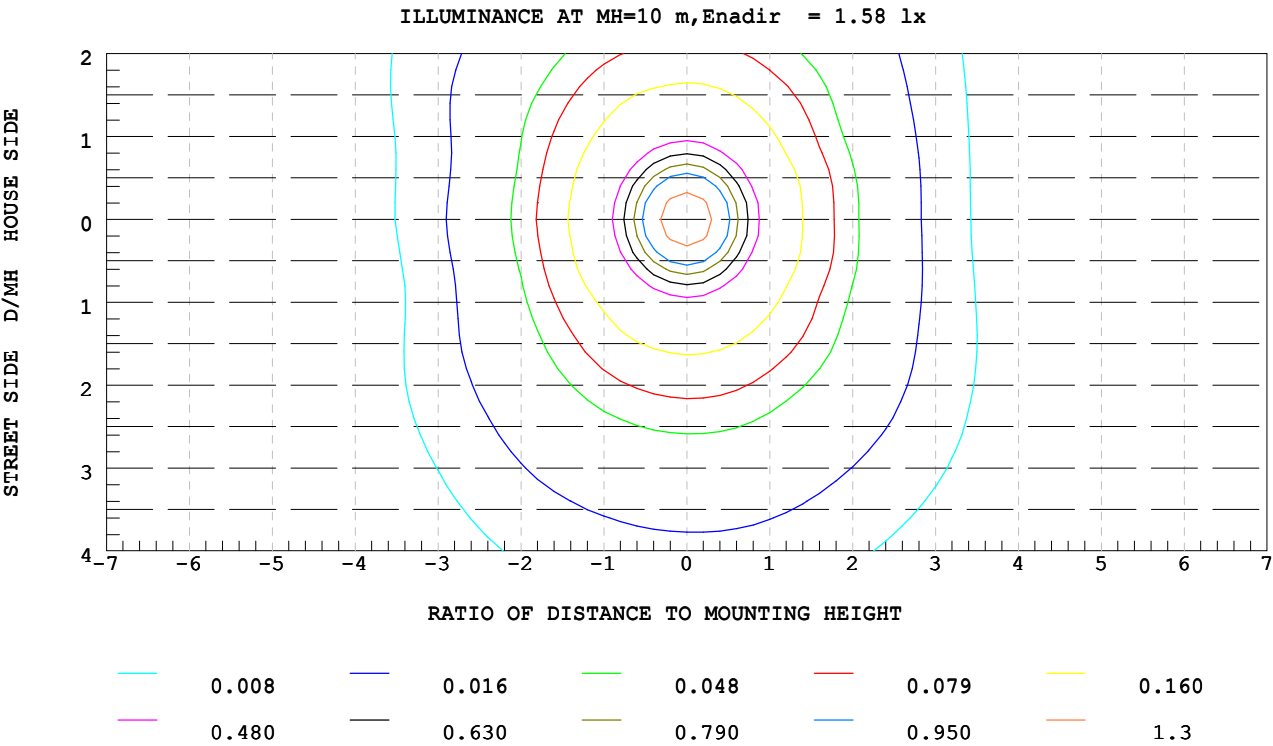
Test System: LSG-1600
Temperature: 25.3 DEG
Operators: REGAIP DASTAN
Test Date: 03-22-2016

Test Set: 2.0 deg/s C-Gamma (TYPE C)
Humidity: 52.0%
Test Distance: 9.545 m
Remarks: LLCRN BT45 CW 120D 10.8W 24V DC IP40

ISOLUX DIAGRAM

Report number: 2016000101

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLCRN BT45 CW 120D 10.8W 24V DC IP40D	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE CRN	DIMENSION: 1015x40x40mm	SERIAL No.:



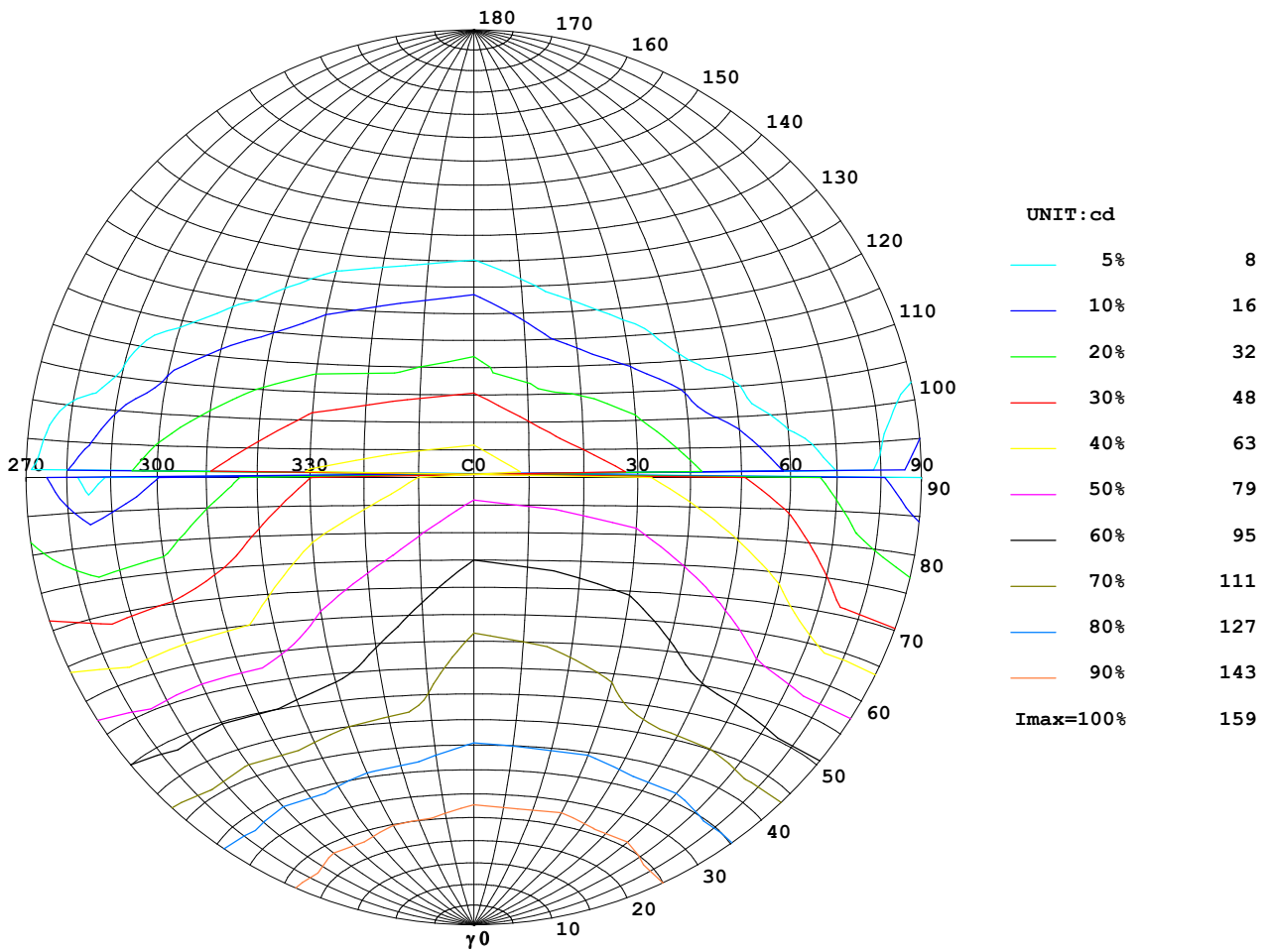
Test System:LSG-1600
Temperature:25.3DEG
Operators:REGAIP DASTAN
Test Date:03-22-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
Humidity:52.0%
Test Distance:9.545 m
Remarks: LLCRN BT45 CW 120D 10.8W 24V DC IP4

ISOCANDELA DIAGRAM

Report number: 2016000101

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLCRN BT45 CW 120D 10.8W 24V DC IP40D	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE CRN	DIMENSION: 1015x40x40mm	SERIAL No.:



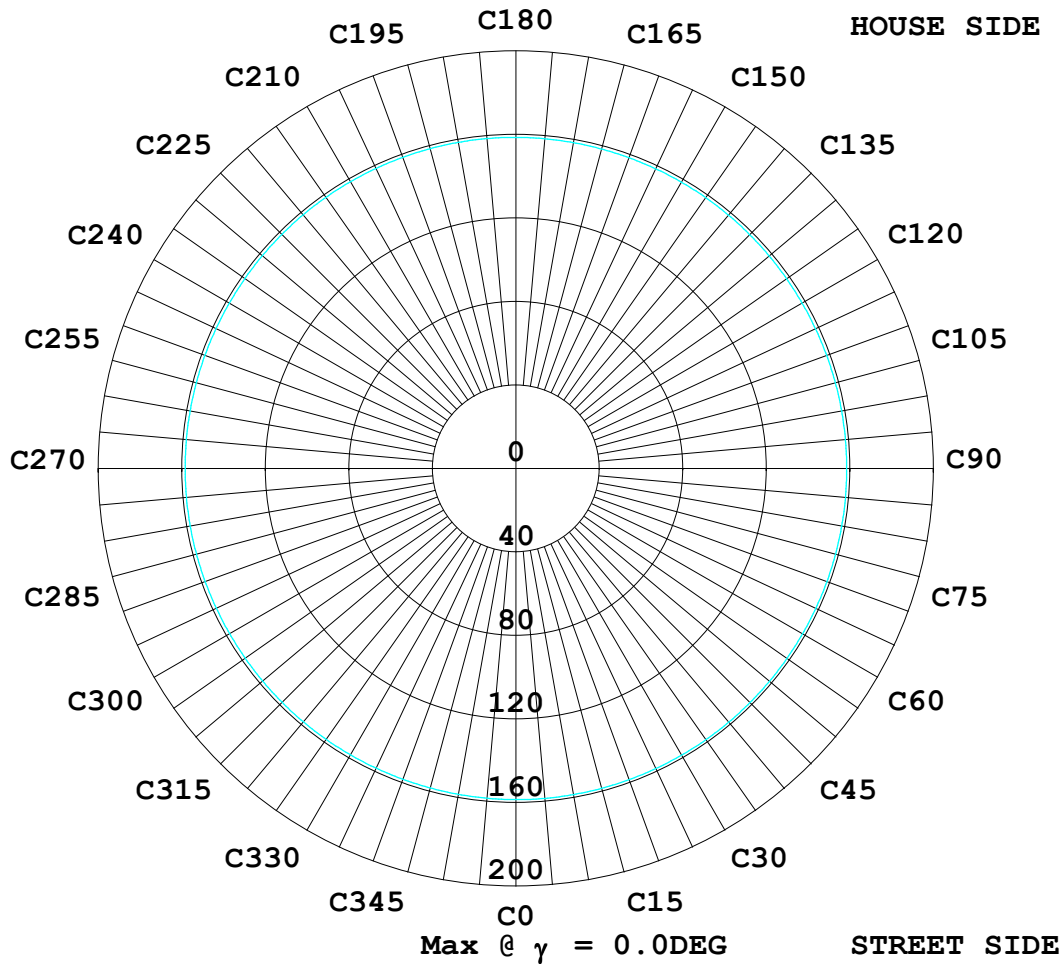
Test System:LSG-1600
Temperature:25.3DEG
Operators:REGAIP DASTAN
Test Date:03-22-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
Humidity:52.0%
Test Distance:9.545 m
Remarks: LLCRN BT45 CW 120D 10.8W 24V DC IP4

ISOCANDELA DIAGRAM

Report number: 2016000101

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLCRN BT45 CW 120D 10.8W 24V DC IP40D	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE CRN	DIMENSION: 1015x40x40mm	SERIAL No.:



Test System:LSG-1600	Test Set: 2.0deg/s C-Gamma (TYPE C)
Temperature:25.3DEG	Humidity:52.0%
Operators:REGAIP DASTAN	Test Distance:9.545 m
Test Date:03-22-2016	Remarks: LLCRN BT45 CW 120D 10.8W 24V DC IP4

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 2016000101

MANUFACTURER: FIBERLI				Address:PSL ELEKTRONIK ANTALYA			
NAME: LLCRN BT45 CW 120D 10.8W 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	159	159	159	159	159	159	158	158	158	158	158	158	159	159	159
5.0	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158
10.0	157	156	157	156	157	156	156	156	156	156	157	156	156	157	156
15.0	154	154	154	153	154	153	153	152	153	153	154	153	154	154	153
20.0	150	150	150	149	149	148	149	148	149	149	150	150	150	150	149
25.0	146	145	145	144	144	142	143	142	143	143	145	145	146	146	144
30.0	140	140	140	137	137	135	136	134	137	137	139	139	140	140	138
35.0	134	133	133	130	129	126	127	126	129	129	132	133	134	134	131
40.0	127	126	126	122	121	117	118	116	120	121	125	126	127	127	123
45.0	122	121	118	113	111	107	108	106	110	112	117	118	120	120	116
50.0	120	118	113	104	101	95.9	96.6	95.1	99.7	102	108	114	117	116	108
55.0	117	115	110	98.0	90.9	84.5	84.9	83.5	89.1	92.4	104	111	114	113	105
60.0	113	110	105	93.0	80.6	73.1	72.8	71.7	78.1	85.9	99.8	107	111	109	101
65.0	108	105	100	87.4	74.2	61.4	60.4	59.7	67.0	80.6	95.0	102	106	105	96.1
70.0	102	99.2	94.2	81.1	67.6	49.9	48.1	47.8	59.8	74.6	89.5	97.1	101	100	90.7
75.0	95.1	92.7	87.8	74.6	60.9	41.5	36.4	36.3	53.2	68.3	83.6	91.2	95.2	94.2	84.8
80.0	88.1	85.5	80.8	67.6	53.8	34.5	25.1	26.9	46.3	61.6	77.0	84.5	88.6	87.7	78.3
85.0	80.7	77.9	73.4	60.2	46.6	27.6	14.3	20.5	39.5	54.7	70.1	77.4	81.6	80.7	71.4
90.0	72.9	70.1	65.6	52.6	39.4	21.2	7.74	14.8	32.7	47.6	62.8	69.9	74.2	73.4	64.1
95.0	64.8	62.1	57.7	45.0	32.3	15.3	5.19	9.74	26.2	40.5	55.3	62.4	66.5	65.8	56.7
100.0	56.5	53.7	49.6	37.4	24.8	10.1	4.91	5.10	18.9	33.3	47.7	54.4	58.5	58.0	49.1
105.0	48.1	45.3	41.2	28.5	16.4	5.10	4.64	4.09	13.3	23.3	39.5	46.3	50.2	50.0	41.2
110.0	34.5	30.4	27.2	19.9	11.9	4.00	4.46	4.00	8.38	17.6	27.5	30.2	35.1	32.9	25.3
115.0	27.3	23.5	19.9	13.4	6.74	3.91	4.28	3.91	4.64	11.9	19.6	23.5	29.2	26.8	19.7
120.0	20.4	17.7	14.6	8.10	4.46	3.82	4.09	3.82	4.37	6.92	14.2	18.4	22.5	21.3	14.7
125.0	14.1	12.1	9.74	4.19	4.28	3.73	4.00	3.64	4.19	3.64	9.56	13.1	16.2	15.4	10.2
130.0	8.10	6.65	4.82	3.82	4.09	3.73	3.82	3.64	4.09	3.64	4.91	7.83	10.2	9.93	5.64
135.0	4.37	3.73	4.19	3.73	4.00	3.64	3.64	3.46	3.91	3.55	4.19	3.64	4.91	4.64	3.55
140.0	4.09	3.73	4.00	3.73	3.82	3.55	3.64	3.46	3.73	3.55	4.00	3.64	4.00	4.00	3.55
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 BT45 CW 120D 10.8W 24V DC IP40

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 2016000101

MANUFACTURER: FIBERLI				Address:PSL ELEKTRONIK ANTALYA			
NAME: LLCRN BT45 CW 120D 10.8W 24V DC IP40D				TYPE:LED LINE		WEIGHT:	
SPECIFICATION:LED LINE CRN				DIMENSION: 1015x40x40mm		SERIAL No.:	

UNIT: cd

γ (DEG)	C (DEG)								
	225	240	255	270	285	300	315	330	345
0.0	159	159	159	158	158	158	158	158	158
5.0	158	158	158	157	158	157	158	158	158
10.0	156	155	155	155	155	155	156	156	156
15.0	153	152	152	151	152	151	153	153	154
20.0	149	147	147	145	147	146	148	148	150
25.0	143	141	141	139	140	140	142	143	145
30.0	137	133	133	131	133	133	136	137	140
35.0	129	125	125	123	125	125	128	130	133
40.0	121	116	116	113	115	115	120	122	126
45.0	113	107	106	102	105	105	111	114	119
50.0	104	96.8	95.2	91.4	94.3	95.2	102	107	116
55.0	94.8	86.6	84.0	79.9	83.0	84.5	92.2	103	113
60.0	90.2	76.3	72.7	67.9	71.4	73.8	86.5	98.2	109
65.0	85.2	68.6	61.5	56.1	59.8	63.5	80.9	92.9	104
70.0	79.6	62.4	50.3	44.2	48.2	56.7	74.7	87.0	98.0
75.0	73.6	56.2	40.4	32.8	36.9	50.0	68.3	80.5	91.5
80.0	67.2	49.7	33.8	22.3	27.9	43.2	61.5	73.7	84.7
85.0	60.5	43.0	27.4	12.2	21.7	36.4	54.4	66.3	77.3
90.0	53.5	36.5	21.4	5.37	15.4	29.7	47.2	58.8	69.6
95.0	46.5	30.0	15.8	2.91	10.3	23.5	40.1	51.2	61.6
100.0	39.3	23.5	10.1	3.00	5.46	16.3	32.8	43.4	53.5
105.0	30.7	14.9	5.73	3.00	3.82	10.8	24.0	33.8	45.2
110.0	19.3	10.7	3.82	3.00	3.73	5.92	15.3	21.2	30.1
115.0	14.4	5.73	3.64	3.00	3.55	3.18	10.6	16.0	22.8
120.0	9.83	3.27	3.55	3.00	3.46	3.18	6.37	11.2	17.5
125.0	5.83	3.37	3.46	2.82	3.27	3.18	4.00	7.01	12.1
130.0	4.00	3.27	3.37	2.73	3.18	3.18	3.91	3.55	6.74
135.0	3.82	3.27	3.27	2.82	3.09	3.09	3.64	3.46	4.19
140.0	3.64	3.37	3.09	2.91	3.09	3.09	3.55	3.46	4.00
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 BT45 CW 120D 10.8W 24V DC IP40