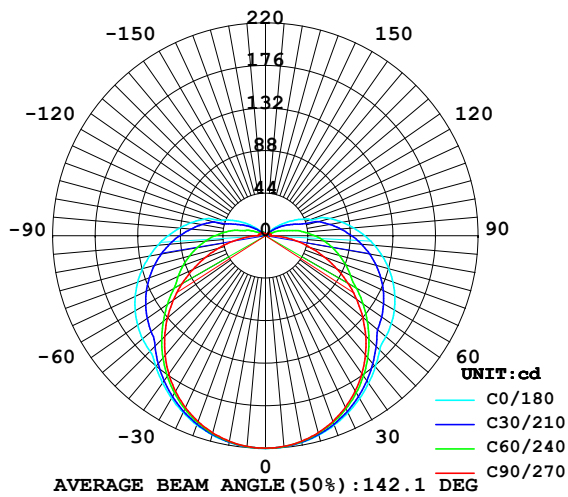
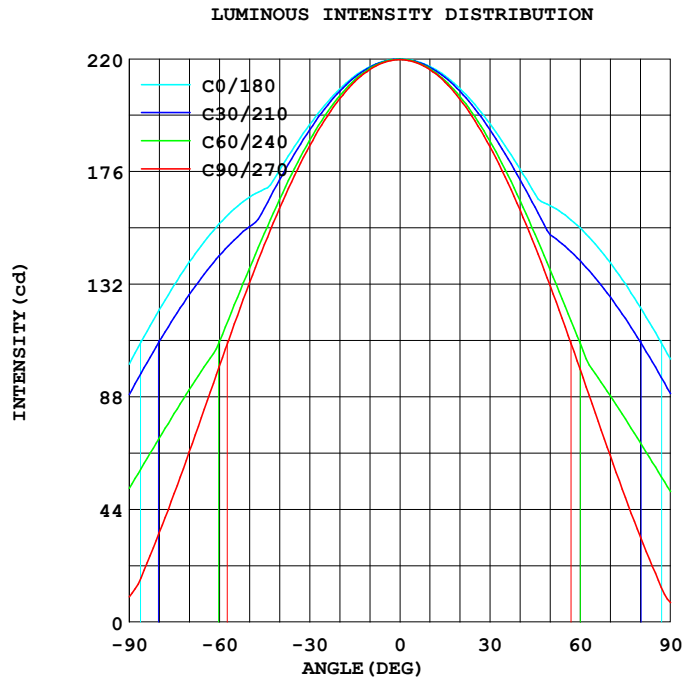


## STREETLIGHT PHOTOMETRIC TEST REPORT

Report number: 2016000102

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLCRN BT60 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) :	219.7	$\eta$ street_up (%) :	6.7
NOMINAL POWER (W) :	14.4	MAXIMUM (C, $\gamma$ ) :	0,0.0	$\eta$ street_down (%) :	46.2
RATED VOLTAGE (V) :	24	TOTAL FLUX (lm) :	941.1	$\eta$ house_up (%) :	6.7
NOMINAL FLUX (lm) :	941.1	EFFICIENCY (%) :	100.0	$\eta$ house_down (%) :	40.4
TEST FLUX (lm) :	941.1	$\eta$ up (%) :	13.4		
LAMPS QUANTITY:	1	$\eta$ down (%) :	86.6		

INTENSITY DISTRIBUTION DIAGRAM  
IN C PLANSINTENSITY DISTRIBUTION DIAGRAM  
IN C PLANS

Test: U:24.00V I:0.176A P:14.40W PF:0.549

Test System: LSG-1600  
 Temperature: 25.3 DEG  
 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 BT60 CW 120D 14.4W 24V DC IP40

# ZONAL FLUX DIAGRAM

Report number: 2016000102

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLCRN BT60 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	218.9	218.4	218.4	218.1	218.9	218.9	218.4	218.6	0- 5	5.233	5.233
10.0	216.7	215.8	215.5	215.1	216.8	216.6	215.5	216.3	5- 10	15.52	20.76
15.0	213.0	211.4	210.8	210.7	213.1	212.6	210.7	212.4	10- 15	25.32	46.09
20.0	207.9	205.3	204.1	204.6	208.1	206.9	203.9	206.7	15- 20	34.33	80.42
25.0	201.6	197.7	195.8	196.8	201.8	199.7	195.6	199.4	20- 25	42.26	122.6
30.0	194.0	188.6	185.7	187.6	194.4	191.1	185.4	190.5	25- 30	48.89	171.5
35.0	185.5	178.2	174.1	177.2	185.8	181.0	173.7	180.3	30- 35	54.05	225.6
40.0	176.3	166.9	161.3	165.7	176.7	170.0	160.8	169.0	35- 40	57.64	283.2
45.0	168.9	154.8	147.3	153.3	166.9	158.0	146.5	156.7	40- 45	59.64	342.9
50.0	165.7	142.2	132.1	140.4	162.4	145.6	131.1	143.9	45- 50	60.48	403.4
55.0	161.2	132.7	116.3	127.1	158.7	133.1	115.1	131.1	50- 55	60.58	464.0
60.0	155.4	125.8	99.76	119.2	153.7	126.5	98.48	123.8	55- 60	59.72	523.7
65.0	148.4	117.9	82.99	111.7	147.5	119.3	81.54	115.9	60- 65	57.85	581.5
70.0	140.4	109.6	66.41	103.7	140.2	111.5	64.86	108.0	65- 70	55.14	636.7
75.0	131.4	100.4	50.19	95.02	132.0	102.9	48.56	98.57	70- 75	51.51	688.2
80.0	121.7	90.92	34.80	85.82	122.7	93.84	33.16	88.82	75- 80	47.24	735.4
85.0	111.4	80.90	20.22	76.25	112.9	84.27	19.04	78.98	80- 85	42.49	777.9
90.0	100.6	70.69	9.748	66.41	102.5	74.43	7.561	68.78	85- 90	37.28	815.2
95.0	89.46	60.22	7.470	56.48	91.74	64.23	5.284	58.49	90- 95	32.07	847.3
100.0	78.07	49.92	7.015	46.64	80.72	54.11	5.101	48.28	95-100	26.87	874.2
105.0	66.32	37.53	6.650	32.98	69.15	41.45	5.010	35.89	100-105	21.40	895.6
110.0	47.83	24.23	6.286	23.59	48.56	28.33	4.828	23.87	105-110	15.11	910.7
115.0	37.80	16.94	5.921	15.57	40.36	19.77	4.646	15.94	110-115	10.51	921.2
120.0	28.24	10.65	5.648	9.475	30.88	13.02	4.555	9.657	115-120	7.604	928.8
125.0	19.13	5.284	5.375	4.919	21.77	7.106	4.373	5.375	120-125	5.253	934.1
130.0	10.84	4.828	5.193	4.737	13.39	5.193	4.190	5.010	125-130	3.378	937.4
135.0	5.193	4.737	3.279	4.646	5.648	4.919	3.006	4.828	130-135	2.045	939.5
140.0	4.828	4.646	3.279	4.555	4.737	4.646	3.097	4.555	135-140	1.603	941.1
145.0	0	0	0	0	0	0	0	0	140-145	0	941.1
150.0	0	0	0	0	0	0	0	0	145-150	0	941.1
155.0	0	0	0	0	0	0	0	0	150-155	0	941.1
160.0	0	0	0	0	0	0	0	0	155-160	0	941.1
165.0	0	0	0	0	0	0	0	0	160-165	0	941.1
170.0	0	0	0	0	0	0	0	0	165-170	0	941.1
175.0	0	0	0	0	0	0	0	0	170-175	0	941.1
180.0	0	0	0	0	0	0	0	0	175-180	0	941.1
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

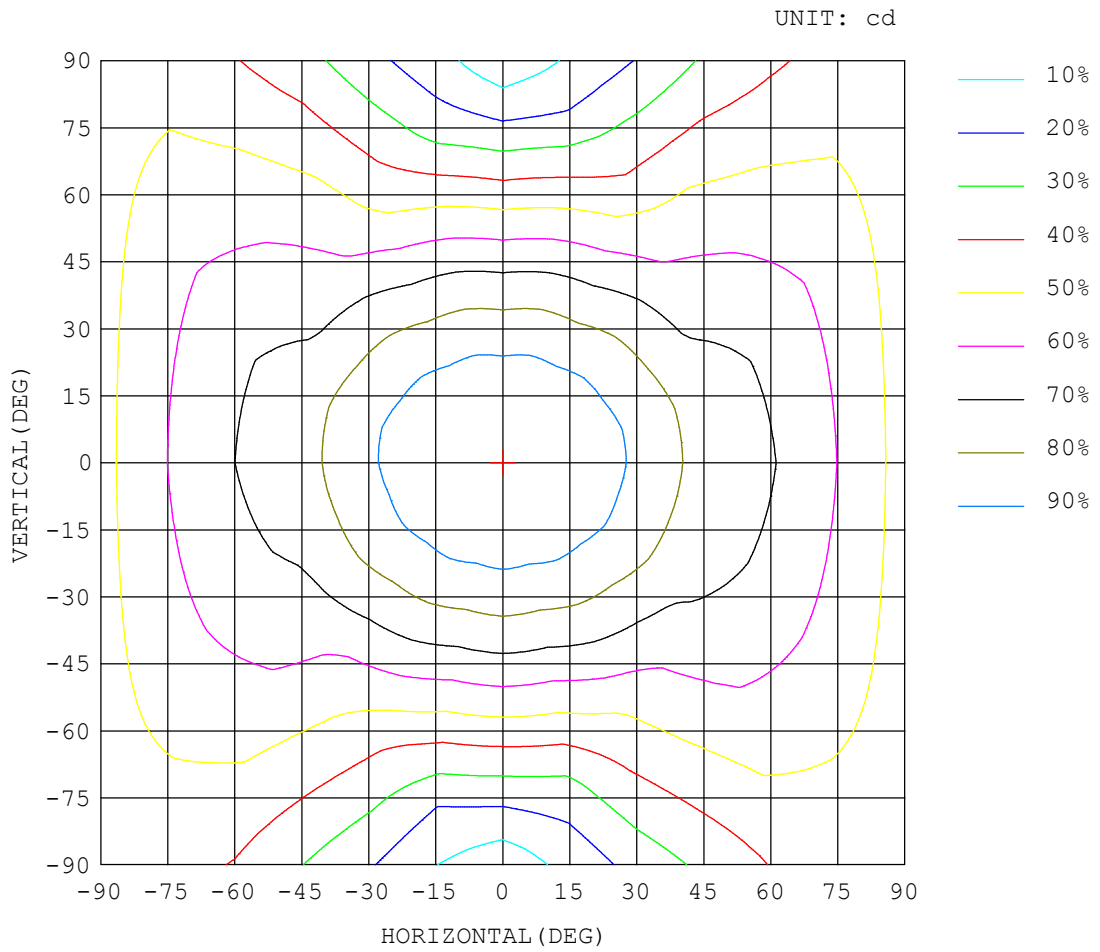
Test System:LSG-1600  
Temperature:25.3DEG  
Operators:REGAIP DASTAN  
Test Date:03-22-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)  
Humidity:52.0%  
Test Distance:9.545 m  
Remarks: LLCRN BT60 CW 120D 14.4W 24V DC IP4

## ISOCANDELA DIAGRAM

Report number: 2016000102

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLCRN BT60 CW 120D 14.4W 24V DC IP40D	TYPE: LED LINE	WEIGHT:
SPECIFICATION: LED LINE CRN	DIMENSION: 1015x40x40mm	SERIAL No.:



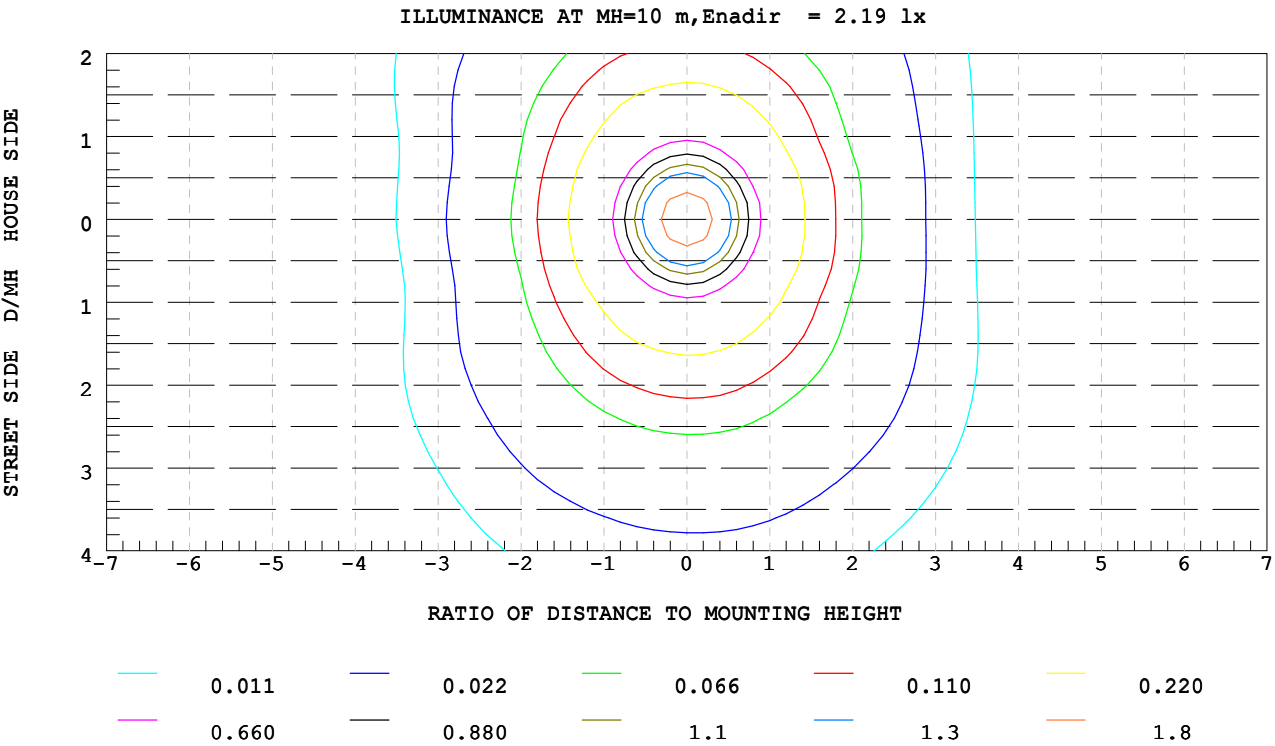
Test System: LSG-1600  
Temperature: 25.3 DEG  
Operators: REGAIP DASTAN  
Test Date: 03-22-2016

Test Set: 2.0 deg/s C-Gamma (TYPE C)  
Humidity: 52.0%  
Test Distance: 9.545 m  
Remarks: LLCRN BT60 CW 120D 14.4W 24V DC IP40

ISOLUX DIAGRAM

Report number: 2016000102

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLCRN BT60 CW 120D 14.4W 24V DC IP40D	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE CRN	DIMENSION: 1015x40x40mm	SERIAL No.:



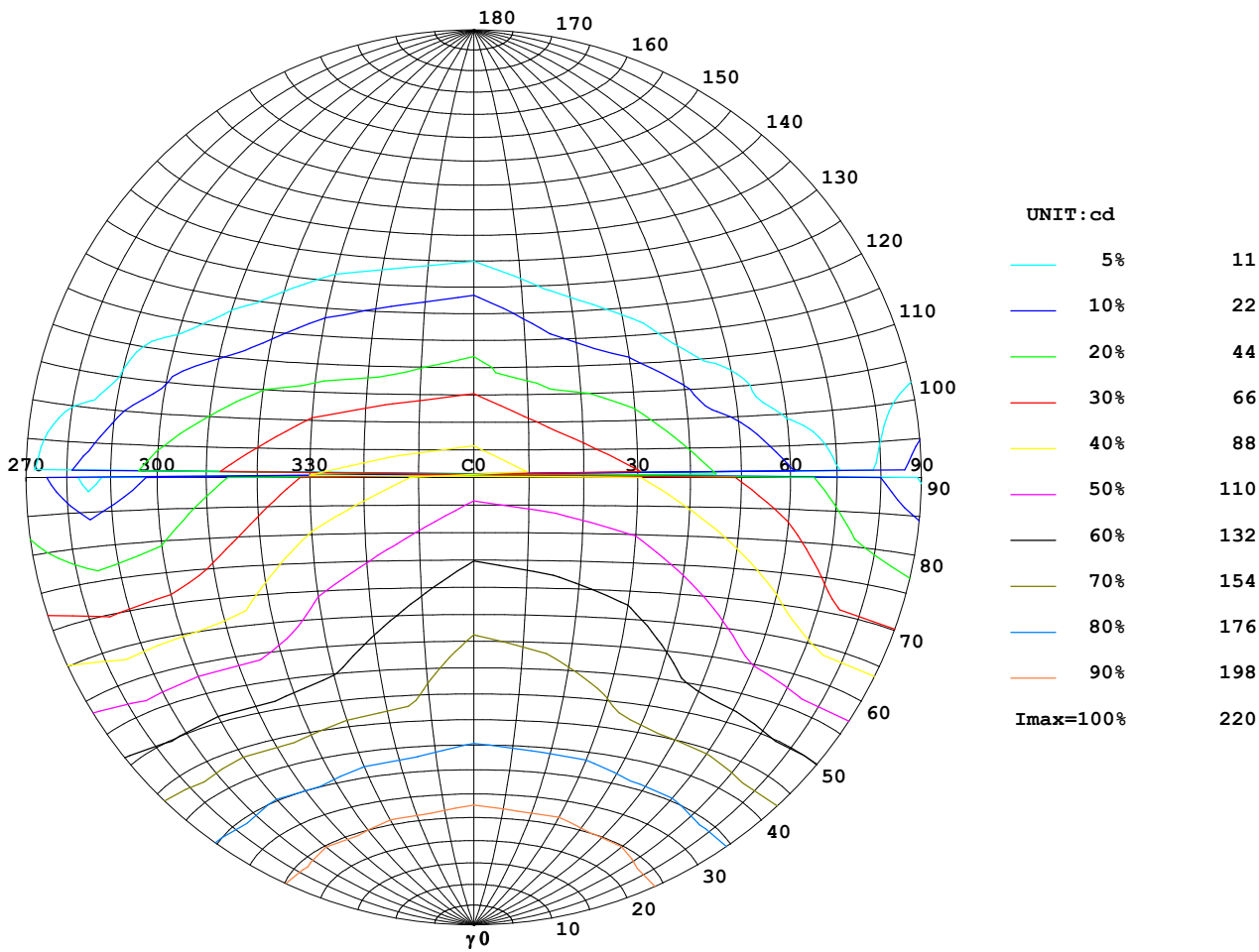
Test System:LSG-1600  
Temperature:25.3DEG  
Operators:REGAIP DASTAN  
Test Date:03-22-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)  
Humidity:52.0%  
Test Distance:9.545 m  
Remarks: LLCRN BT60 CW 120D 14.4W 24V DC IP4

ISOCANDELA DIAGRAM

Report number: 2016000102

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLCRN BT60 CW 120D 14.4W 24V DC IP40D	TYPE:LED LINE	WEIGHT:
SPECIFICATION:LED LINE CRN	DIMENSION: 1015x40x40mm	SERIAL No.:



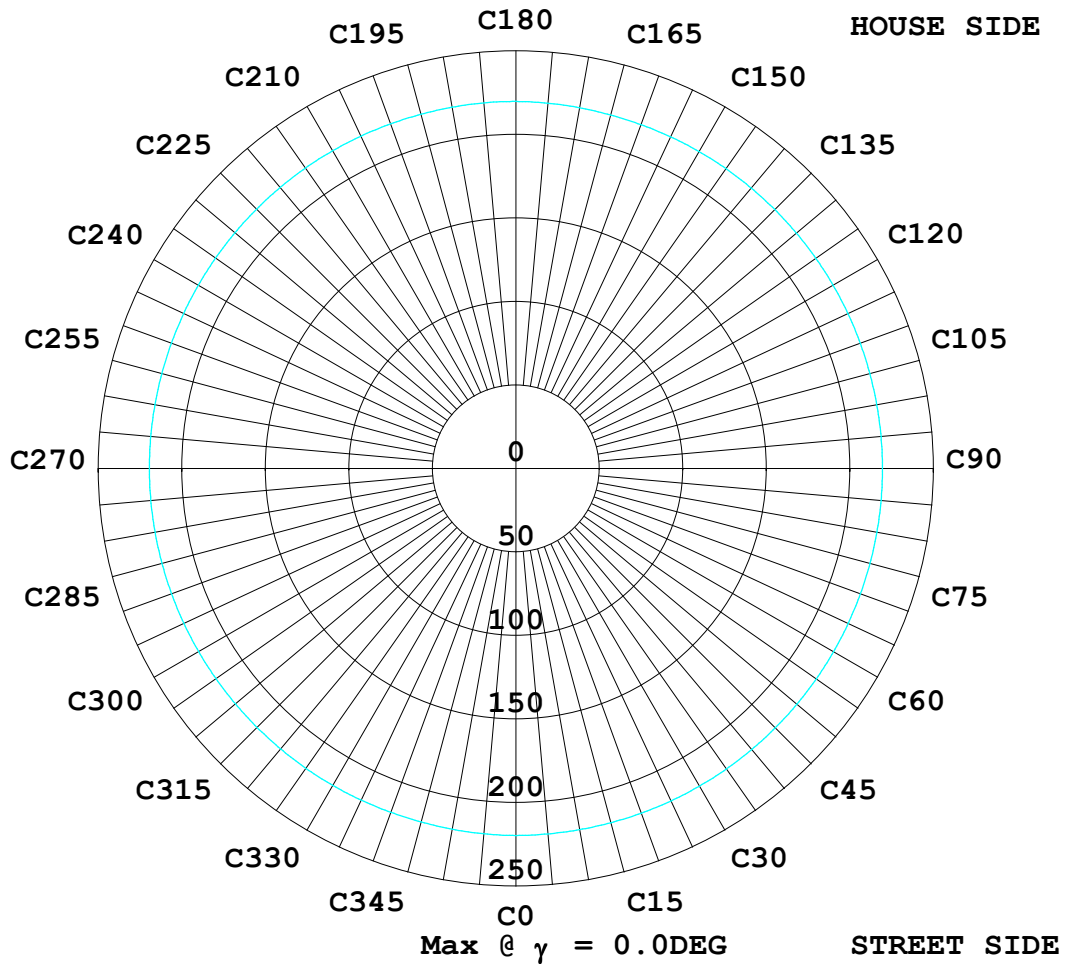
Test System:LSG-1600  
Temperature:25.3DEG  
Operators:REGAIP DASTAN  
Test Date:03-22-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)  
Humidity:52.0%  
Test Distance:9.545 m  
Remarks: LLCRN BT60 CW 120D 14.4W 24V DC IP4

## ISOCANDELA DIAGRAM

Report number: 2016000102

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLCRN BT60 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:03-22-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)  
 Humidity:52.0%  
 Test Distance:9.545 m  
 Remarks: LLCRN BT60 CW 120D 14.4W 24V DC IP4

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 2016000102

MANUFACTURER: FIBERLI				Address:PSL ELEKTRONIK ANTALYA			
NAME: LLCRN BT60 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	220	220	220	220	220	219	219	219	219	219	219	219	220	220	220
5.0	219	219	219	218	219	218	218	218	218	218	218	218	219	219	219
10.0	217	216	216	216	216	215	216	215	216	215	216	216	217	217	216
15.0	213	212	213	211	212	210	211	210	211	211	212	212	213	214	213
20.0	208	207	207	205	205	203	204	203	205	205	206	206	208	209	207
25.0	202	200	200	198	197	195	196	195	197	197	200	200	202	202	200
30.0	194	192	192	189	188	185	186	184	187	188	191	192	194	195	192
35.0	186	184	183	178	177	173	174	173	176	177	182	183	186	186	183
40.0	176	174	172	167	165	160	161	160	164	166	171	173	177	177	173
45.0	169	165	162	155	152	146	147	146	151	153	160	163	167	167	162
50.0	166	162	154	142	138	131	132	131	137	140	149	157	162	161	151
55.0	161	157	149	133	124	116	116	115	122	127	144	153	159	157	147
60.0	155	151	143	126	109	99.8	99.7	98.8	107	119	138	148	154	152	141
65.0	148	144	136	118	99.5	84.0	82.9	82.6	92.5	112	131	141	148	146	134
70.0	140	136	128	110	90.6	68.3	66.4	66.6	83.7	104	124	134	140	139	127
75.0	131	127	119	100	81.3	55.4	50.1	50.8	74.5	95.0	115	126	132	131	118
80.0	122	117	109	90.9	71.7	45.9	34.8	39.1	65.1	85.8	106	117	123	122	109
85.0	111	107	99.3	80.9	61.9	36.7	20.2	30.4	55.7	76.2	96.7	107	113	112	99.4
90.0	101	96.0	88.7	70.6	52.1	28.0	9.74	22.3	46.3	66.4	86.6	96.4	103	101	89.1
95.0	89.4	84.9	77.8	60.2	42.4	20.1	7.47	15.1	37.2	56.4	76.1	85.8	91.7	90.8	78.5
100.0	78.0	73.5	66.8	49.9	32.4	12.6	7.01	8.56	25.7	46.6	65.6	74.8	80.7	79.8	67.8
105.0	66.3	61.8	55.3	37.5	21.5	6.28	6.65	5.83	18.9	32.9	54.4	63.6	69.1	68.5	56.6
110.0	47.8	41.4	35.5	24.2	15.3	5.73	6.28	5.64	11.7	23.5	34.4	41.4	48.5	45.2	34.9
115.0	37.8	32.0	26.8	16.9	8.19	5.46	5.92	5.46	6.46	15.5	26.6	32.6	40.3	36.5	27.3
120.0	28.2	24.1	19.4	10.6	5.92	5.28	5.64	5.19	5.92	9.47	19.3	25.3	30.8	28.6	20.0
125.0	19.1	16.1	12.6	5.28	5.64	5.10	5.37	5.01	5.64	4.91	12.7	17.4	21.7	20.5	13.4
130.0	10.8	8.65	6.01	4.82	5.37	4.82	5.19	4.73	5.37	4.73	6.28	10.2	13.3	12.5	6.92
135.0	5.19	4.37	5.19	4.73	5.01	3.37	3.27	3.09	5.10	4.64	5.10	4.28	5.64	5.37	4.46
140.0	4.82	4.37	4.82	4.64	4.82	3.82	3.27	3.27	4.82	4.55	4.82	4.19	4.73	4.82	4.37
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 BT60 CW 120D 14.4W 24V DC IP40

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 2016000102

MANUFACTURER: FIBERLI				Address:PSL ELEKTRONIK ANTALYA			
NAME: LLCRN BT60 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	220	220	219	219	219	219	219	219	219
5.0	219	219	219	218	219	218	219	218	219
10.0	217	216	216	216	216	216	216	216	217
15.0	213	211	212	211	212	211	212	212	213
20.0	207	205	205	204	205	205	207	207	208
25.0	200	197	197	196	197	197	199	200	202
30.0	191	188	188	185	187	187	191	191	194
35.0	181	177	176	174	176	176	180	182	185
40.0	170	164	164	161	164	164	169	172	176
45.0	158	151	150	147	150	150	157	160	166
50.0	146	137	135	131	135	136	144	151	162
55.0	133	123	120	115	119	121	131	145	158
60.0	127	109	104	98.4	103	107	124	139	152
65.0	119	96.8	88.1	81.5	86.6	92.4	116	132	145
70.0	112	88.2	72.4	64.8	70.6	83.3	108	124	137
75.0	103	79.2	57.3	48.5	54.5	74.2	98.5	115	128
80.0	93.8	69.8	47.6	33.1	42.5	64.5	88.8	105	118
85.0	84.2	60.4	38.4	19.0	33.6	54.5	78.9	94.8	108
90.0	74.4	50.9	29.7	7.56	24.5	44.9	68.7	84.0	97.3
95.0	64.2	41.5	21.6	5.28	16.9	35.7	58.4	73.2	86.2
100.0	54.1	31.9	14.3	5.10	9.93	25.6	48.2	62.4	74.9
105.0	41.4	20.7	7.56	5.01	6.10	17.1	35.8	50.3	63.4
110.0	28.3	14.7	5.73	4.82	5.73	10.2	23.8	30.9	42.4
115.0	19.7	7.74	5.46	4.64	5.46	4.73	15.9	23.4	32.3
120.0	13.0	4.64	5.19	4.55	5.19	4.55	9.65	16.3	24.5
125.0	7.10	4.64	5.01	4.37	4.91	4.55	5.37	10.1	16.7
130.0	5.19	4.55	4.46	4.19	4.55	4.37	5.01	4.55	9.20
135.0	4.91	4.37	3.46	3.00	3.46	4.19	4.82	4.37	5.01
140.0	4.64	4.19	3.46	3.09	3.64	4.19	4.55	4.28	4.73
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 BT60 CW 120D 14.4W 24V DC IP40