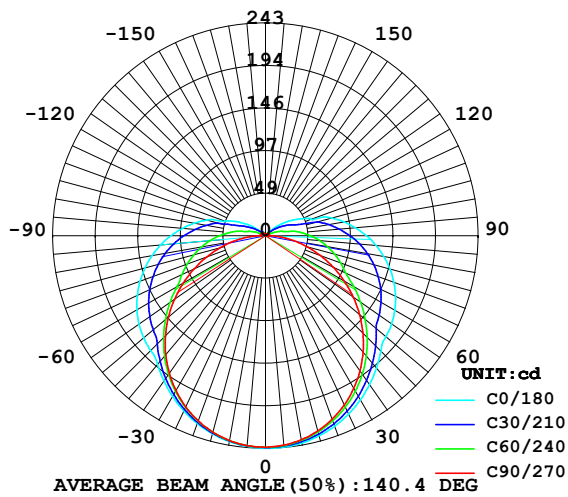
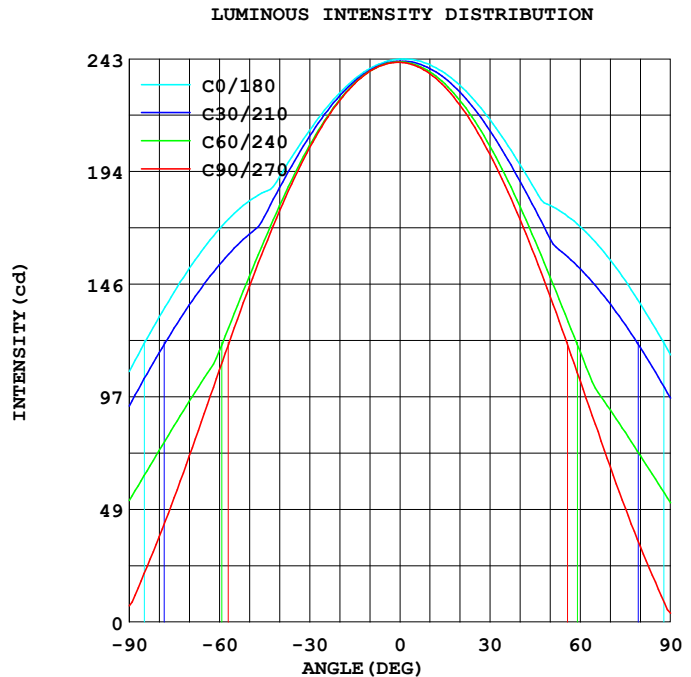


STREETLIGHT PHOTOMETRIC TEST REPORT

Report number: 2016000098

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLCRN P45 CW 120D 18W 24V DC IP40D	TYPE: LED LINE	WEIGHT: ---
SPECIFICATION: LED LINE CRN	DIMENSION: 1015x40x40mm	SERIAL No.:

TEST DATA:					
MODEL:	LLCRN	Imax (cd) :	242.8	η street_up (%) :	6.2
NOMINAL POWER (W) :	18	MAXIMUM (C, γ :	180, 1.0	η street_down (%) :	46.0
RATED VOLTAGE (V) :	24	TOTAL FLUX (lm) :	1091	η house_up (%) :	6.8
NOMINAL FLUX (lm) :	1091.3	EFFICIENCY (%) :	100.0	η house_down (%) :	41.0
TEST FLUX (lm) :	1091	η up (%) :	13.0		
LAMPS QUANTITY:	1	η down (%) :	87.0		

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSINTENSITY DISTRIBUTION DIAGRAM
IN C PLANS

Test: U:24.00V I:0.194A P:18.00W PF:0.564

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 P45 CW 120D 18W 24V DC IP40D

ZONAL FLUX DIAGRAM

Report number: 2016000098

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLCRN P45 CW 120D 18W 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	241.5	240.3	240.4	240.5	242.2	240.9	239.9	240.3	0- 5	5.761	5.761
10.0	238.6	237.0	237.4	237.7	240.3	238.3	236.4	237.3	5- 10	17.09	22.85
15.0	234.1	231.9	232.1	233.2	236.6	233.8	230.6	232.3	10- 15	27.86	50.71
20.0	228.1	224.9	224.8	226.6	231.4	227.5	222.8	225.4	15- 20	37.74	88.46
25.0	220.7	216.2	215.6	218.4	224.6	219.5	213.1	217.0	20- 25	46.42	134.8
30.0	212.0	205.9	204.4	208.4	216.6	209.7	201.5	206.8	25- 30	53.65	188.5
35.0	202.3	194.0	191.5	197.0	207.3	198.5	188.2	195.0	30- 35	59.24	247.7
40.0	191.8	181.3	177.2	184.5	197.2	186.1	173.5	182.4	35- 40	63.10	310.8
45.0	185.4	167.5	161.4	171.0	186.4	172.7	157.5	168.7	40- 45	65.21	376.1
50.0	181.5	153.3	144.5	156.7	179.6	158.7	140.3	154.5	45- 50	66.04	442.1
55.0	176.2	142.7	126.9	142.3	175.8	144.3	122.5	142.5	50- 55	65.96	508.1
60.0	169.4	134.7	108.5	132.4	170.4	134.7	103.9	134.6	55- 60	64.88	573.0
65.0	161.4	125.8	89.92	124.5	163.9	126.9	85.18	125.8	60- 65	62.72	635.7
70.0	152.4	116.2	71.61	115.8	156.0	118.4	66.87	116.3	65- 70	59.66	695.3
75.0	142.3	106.0	53.57	106.5	147.2	109.2	49.10	106.0	70- 75	55.61	751.0
80.0	131.4	95.29	36.71	96.57	137.1	99.48	32.43	95.48	75- 80	50.90	801.9
85.0	119.9	84.18	20.95	86.27	126.5	89.19	17.12	84.45	80- 85	45.71	847.6
90.0	107.9	72.79	6.924	75.52	115.2	78.53	3.735	73.15	85- 90	39.98	887.6
95.0	95.57	61.40	6.104	64.68	103.4	67.69	3.462	61.77	90- 95	34.34	921.9
100.0	82.81	50.10	5.830	53.93	91.28	56.94	3.553	50.65	95-100	28.70	950.6
105.0	69.87	36.35	5.648	39.08	78.71	42.27	3.553	36.89	100-105	22.69	973.3
110.0	49.74	24.14	5.375	28.42	55.02	29.51	3.553	23.87	105-110	15.90	989.2
115.0	38.99	15.21	5.101	18.67	46.64	20.04	3.553	15.21	110-115	10.88	1000
120.0	28.42	8.564	4.919	11.47	35.98	13.02	3.553	8.655	115-120	7.768	1008
125.0	18.58	4.555	4.737	5.557	25.78	6.924	3.553	4.919	120-125	5.311	1013
130.0	9.566	4.555	4.555	4.373	16.30	4.828	3.553	4.737	125-130	3.353	1017
135.0	5.284	4.464	3.553	4.282	7.744	4.555	3.279	4.555	130-135	2.070	1019
140.0	4.919	4.464	3.462	4.282	4.919	4.464	3.370	4.282	135-140	1.593	1091
145.0	0	0	0	0	0	0	0	00	140-145		
150.0	0	0	0	0	0	0	0	0	145-150		
155.0	0	0	0	0	0	0	0	0	150-155		
160.0	0	0	0	0	0	0	0	0	155-160		
165.0	0	0	0	0	0	0	0	0	160-165		
170.0	0	0	0	0	0	0	0	0	165-170		
175.0	0	0	0	0	0	0	0	0	170-175		
180.0	0	0	0	0	0	0	0	0	175-180		
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

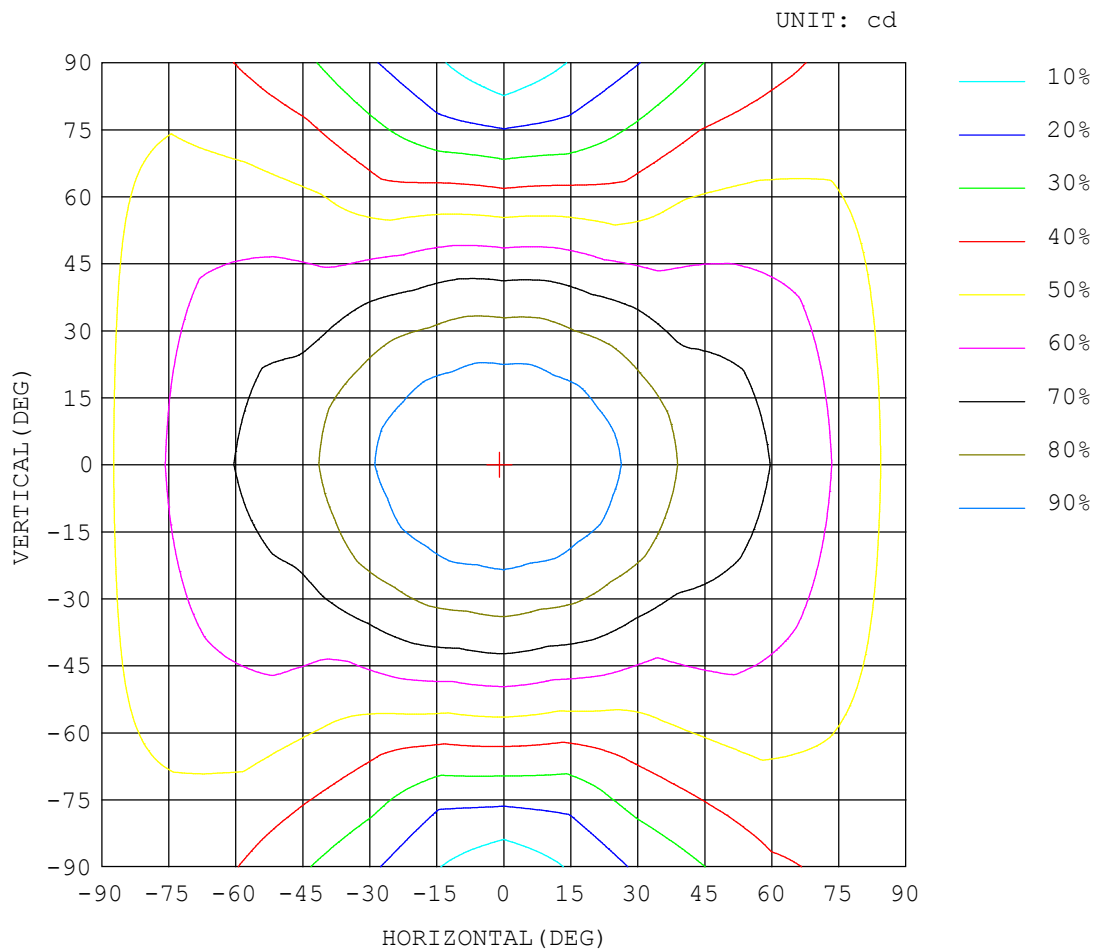
Test System:LSG-1600
Temperature:25.3DEG
Operators:REGAIP DASTAN
Test Date:03-22-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
Humidity:52.0%
Test Distance:9.545 m
Remarks: LLCRN P45 CW 120D 18W 24V DC IP40D

ISOCANDELA DIAGRAM

Report number: 2016000098

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLCRN P45 CW 120D 18W 24V DC IP40D	TYPE: LED LINE	WEIGHT: ---
SPECIFICATION: LED LINE CRN	DIMENSION: 1015x40x40mm	SERIAL No.:



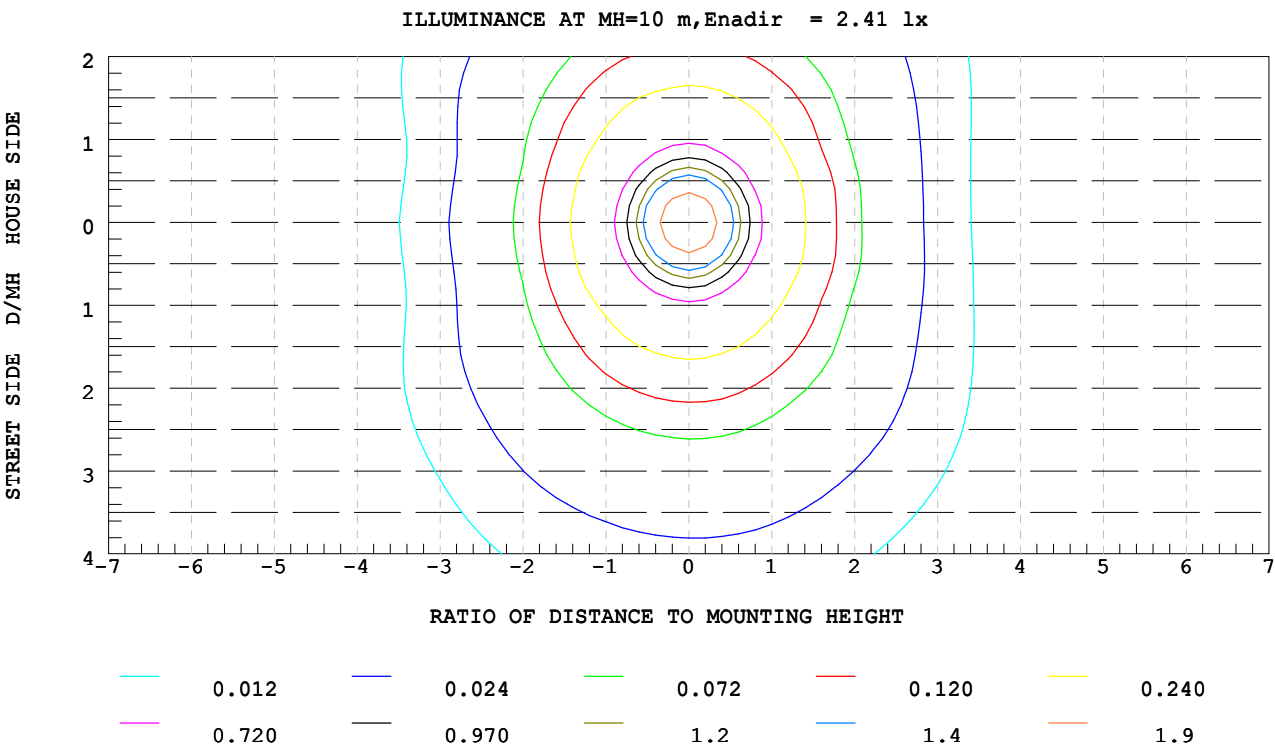
Test System: LSG-1600
Temperature: 25.3 DEG
Operators: REGAIP DASTAN
Test Date: 03-22-2016

Test Set: 2.0 deg/s C-Gamma (TYPE C)
Humidity: 52.0%
Test Distance: 9.545 m
Remarks: LLCRN P45 CW 120D 18W 24V DC IP40D

ISOLUX DIAGRAM

Report number: 2016000098

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLCRN P45 CW 120D 18W 24V DC IP40D	TYPE:LED LINE	WEIGHT:---
SPECIFICATION:LED LINE CRN	DIMENSION: 1015x40x40mm	SERIAL No.:



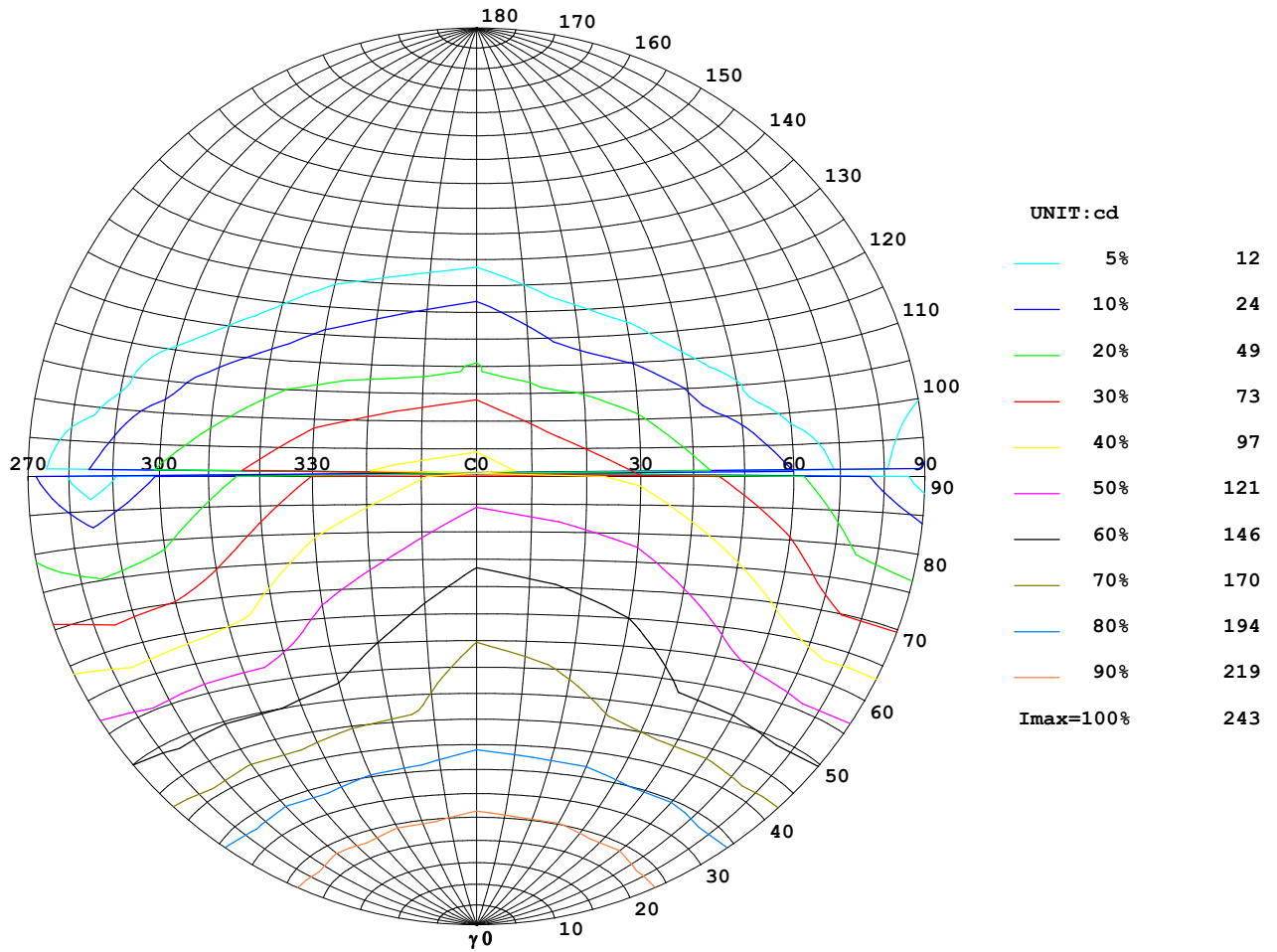
Test System:LSG-1600
Temperature:25.3DEG
Operators:REGAIP DASTAN
Test Date:03-22-2016

Test Set: 2.0deg/s C-Gamma (TYPE C)
Humidity:52.0%
Test Distance:9.545 m
Remarks: LLCRN P45 CW 120D 18W 24V DC IP40D

ISOCANDELA DIAGRAM

Report number: 2016000098

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLCRN P45 CW 120D 18W 24V DC IP40D	TYPE: LED LINE	WEIGHT: ---
SPECIFICATION: LED LINE CRN	DIMENSION: 1015x40x40mm	SERIAL No.:



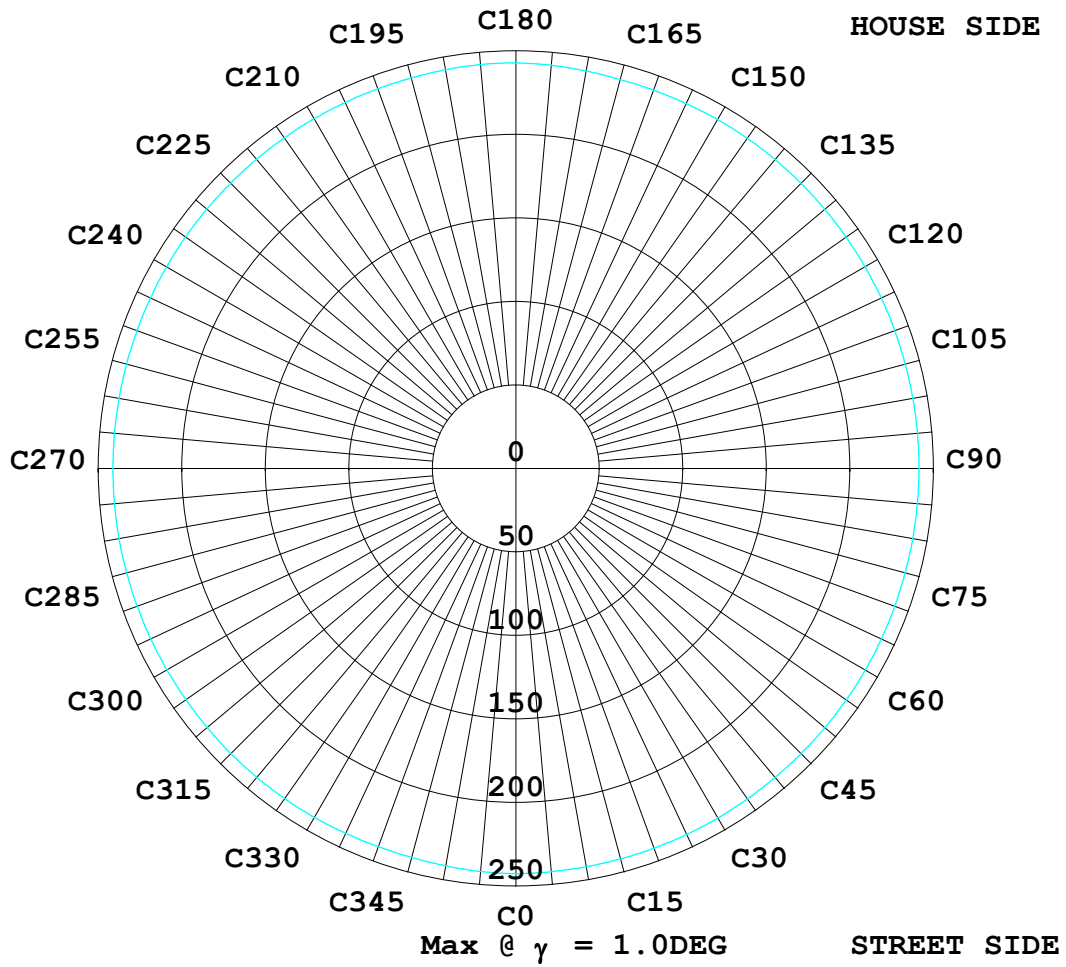
Test System: LSG-1600
Temperature: 25.3 DEG
Operators: REGAIP DASTAN
Test Date: 03-22-2016

Test Set: 2.0 deg/s C-Gamma (TYPE C)
Humidity: 52.0%
Test Distance: 9.545 m
Remarks: LLCRN P45 CW 120D 18W 24V DC IP40D

ISOCANDELA DIAGRAM

Report number: 2016000098

MANUFACTURER: FIBERLI	Address: PSL ELEKTRONIK ANTALYA	
NAME: LLCRN P45 CW 120D 18W 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 P45 CW 120D 18W 24V DC IP40D

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 2016000098

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLCRN P45 CW 120D 18W 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	243	242	242	242	242	241	241	241	241	241	241	241	243	242	242
5.0	242	241	241	240	241	240	240	240	241	241	241	241	242	242	241
10.0	239	238	238	237	238	237	237	237	238	238	239	238	240	240	239
15.0	234	233	233	232	232	231	232	232	233	233	235	234	237	236	234
20.0	228	227	227	225	225	223	225	224	226	227	229	229	231	231	228
25.0	221	219	219	216	216	214	216	215	218	218	221	222	225	224	221
30.0	212	210	209	206	206	203	204	204	207	208	213	213	217	216	212
35.0	202	200	199	194	193	190	192	191	195	197	202	204	207	206	201
40.0	192	189	187	181	179	175	177	176	182	185	191	193	197	196	190
45.0	185	181	175	168	165	159	161	161	167	171	179	182	186	185	178
50.0	182	177	167	153	149	142	145	144	152	157	166	174	180	176	165
55.0	176	171	161	143	133	125	127	127	136	142	159	169	176	172	158
60.0	169	164	154	135	117	108	109	109	120	132	153	164	170	167	152
65.0	161	156	146	126	105	89.7	89.9	91.0	103	125	146	157	164	160	145
70.0	152	147	137	116	95.2	72.3	71.6	73.4	93.2	116	138	149	156	152	137
75.0	142	137	127	106	84.7	56.4	53.5	56.0	83.4	107	129	140	147	144	128
80.0	131	126	116	95.2	73.8	45.8	36.7	43.8	73.4	96.5	119	130	137	134	118
85.0	120	114	105	84.1	63.1	35.8	20.9	34.3	63.2	86.2	109	120	127	123	108
90.0	108	102	93.1	72.7	52.3	26.4	6.92	25.4	53.0	75.5	97.9	109	115	112	96.5
95.0	95.5	89.6	81.0	61.4	41.8	17.9	6.10	17.4	43.0	64.6	86.6	97.0	103	100	85.1
100.0	82.8	77.0	68.9	50.1	30.7	10.3	5.83	10.3	31.3	53.9	75.1	85.0	91.2	88.4	73.6
105.0	69.8	64.3	56.1	36.3	19.9	4.91	5.64	4.82	21.9	39.0	63.0	72.7	78.7	76.1	61.4
110.0	49.7	41.7	34.7	24.1	13.0	4.82	5.37	4.73	14.4	28.4	39.8	47.1	55.0	50.0	37.1
115.0	38.9	31.6	25.6	15.2	6.10	4.73	5.10	4.64	7.83	18.6	30.6	37.1	46.6	40.1	29.2
120.0	28.4	23.3	17.9	8.56	5.37	4.55	4.91	4.46	5.37	11.4	22.5	29.5	35.9	31.9	21.5
125.0	18.5	14.9	10.8	4.55	5.19	4.46	4.73	4.46	5.10	5.55	15.4	21.1	25.7	23.2	14.5
130.0	9.56	6.92	5.37	4.55	4.91	4.37	4.55	4.28	4.91	4.37	8.29	12.9	16.3	14.6	7.65
135.0	5.28	4.46	5.10	4.46	4.73	3.46	3.55	3.37	4.73	4.28	5.10	5.19	7.74	6.37	4.28
140.0	4.91	4.55	4.82	4.46	4.55	3.73	3.46	3.46	4.55	4.28	4.82	4.37	4.91	4.91	4.28
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 P45 CW 120D 18W 24V DC IP40D

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 2016000098

MANUFACTURER: FIBERLI	Address:PSL ELEKTRONIK ANTALYA	
NAME: LLCRN P45 CW 120D 18W 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	242	242	241	241	241	241	241	241	241
5.0	241	240	240	240	240	240	240	240	240
10.0	238	237	237	236	237	237	237	237	237
15.0	234	232	232	231	232	231	232	232	233
20.0	228	225	225	223	224	224	225	225	227
25.0	220	216	216	213	215	214	217	217	220
30.0	210	205	205	202	204	203	207	208	211
35.0	199	193	192	188	191	190	195	197	201
40.0	186	179	178	174	176	176	182	185	191
45.0	173	164	162	158	161	161	169	173	181
50.0	159	149	146	140	144	145	155	165	177
55.0	144	133	129	123	127	129	143	159	172
60.0	135	117	111	104	109	113	135	151	165
65.0	127	101	92.9	85.1	91.0	100	126	143	157
70.0	118	91.4	75.4	66.8	73.4	90.1	116	134	148
75.0	109	81.7	57.9	49.1	56.3	79.7	106	124	138
80.0	99.4	71.7	46.3	32.4	45.2	68.8	95.4	113	127
85.0	89.1	61.5	36.7	17.1	35.1	58.2	84.4	102	116
90.0	78.5	51.4	27.5	3.73	25.6	47.6	73.1	89.7	104
95.0	67.6	41.6	19.3	3.46	17.2	37.5	61.7	77.7	91.8
100.0	56.9	30.3	11.8	3.55	9.38	26.4	50.6	65.6	79.3
105.0	42.2	20.2	5.28	3.55	4.91	16.8	36.8	52.2	66.5
110.0	29.5	13.4	4.64	3.55	4.55	9.65	23.8	31.2	43.5
115.0	20.0	6.65	4.46	3.55	4.46	3.91	15.2	23.2	32.7
120.0	13.0	4.00	4.37	3.55	4.28	3.82	8.65	15.7	24.5
125.0	6.92	4.00	4.28	3.55	4.19	3.82	4.91	9.01	16.0
130.0	4.82	4.00	4.00	3.55	3.91	3.82	4.73	4.28	7.92
135.0	4.55	4.00	3.73	3.27	3.64	3.73	4.55	4.19	5.19
140.0	4.46	4.00	3.64	3.37	3.64	3.82	4.28	4.19	4.82
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 P45 CW 120D 18W 24V DC IP40D