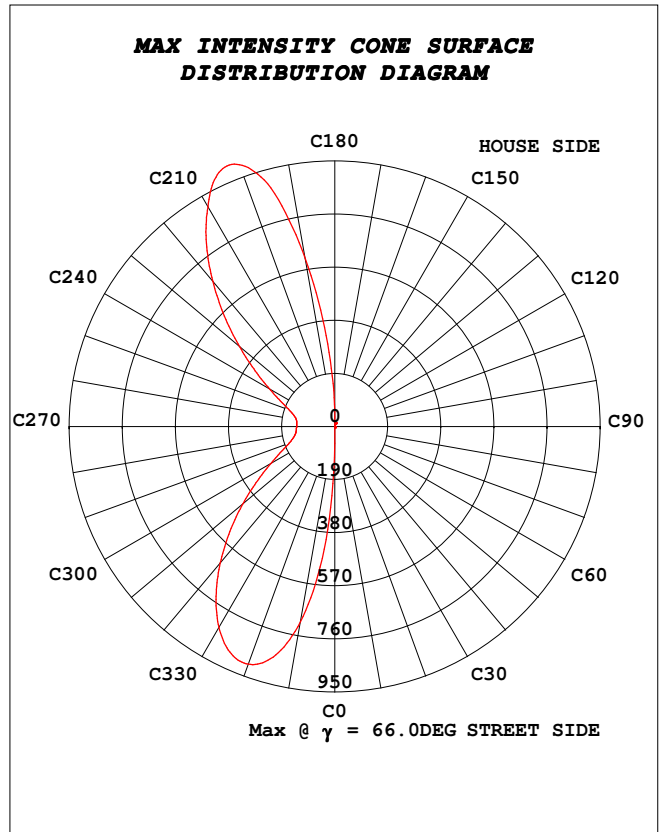
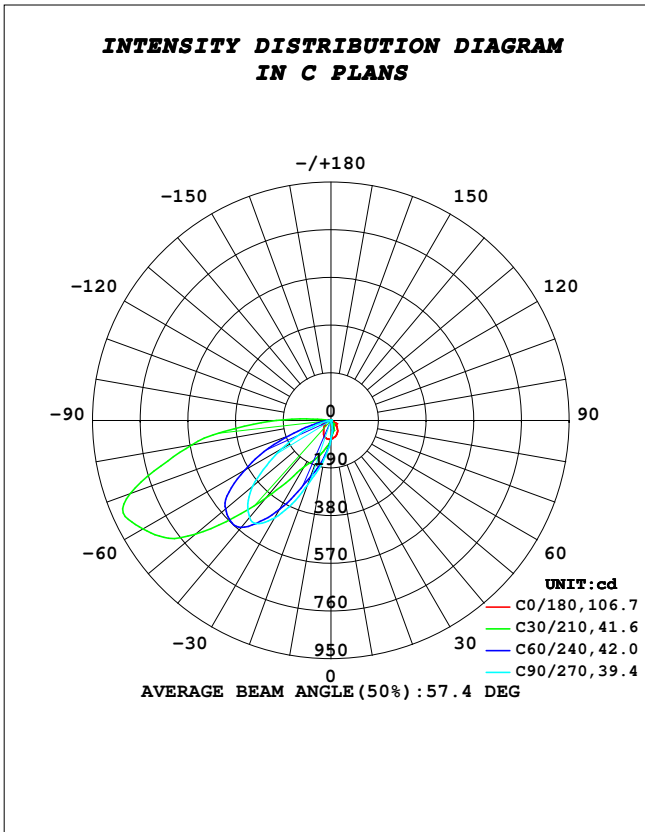


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:230.57V I:0.1217A P:11.181W PF:0.3984 Freq:50.01Hz Lamp Flux:1029.8x1 lm		
NAME: LED BOLLARD	TYPE:OUTDOOR	WEIGHT:3kg
SPEC.:11W	DIM.: 120X120X120	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	LED BOLLARD	Imax (cd)	907.2	η street_up (%)	0.1
NOMINAL POWER (W)	11	LOR (%)	100.0	η street_down (%)	50.4
RATED VOLTAGE (V)	230.0	TOTAL FLUX (lm)	1030	η house_up (%)	0.4
NOMINAL FLUX (lm)	1029.8	MAXIMUM @ (C, γ)	210,66.0	η house_down (%)	49.1
LAMPS INSIDE	1	η up (%)	0.6	76 FLASHAREA (m2)	0.00100
TEST VOLTAGE (V)	230	η down (%)	99.4	SLI	0.000

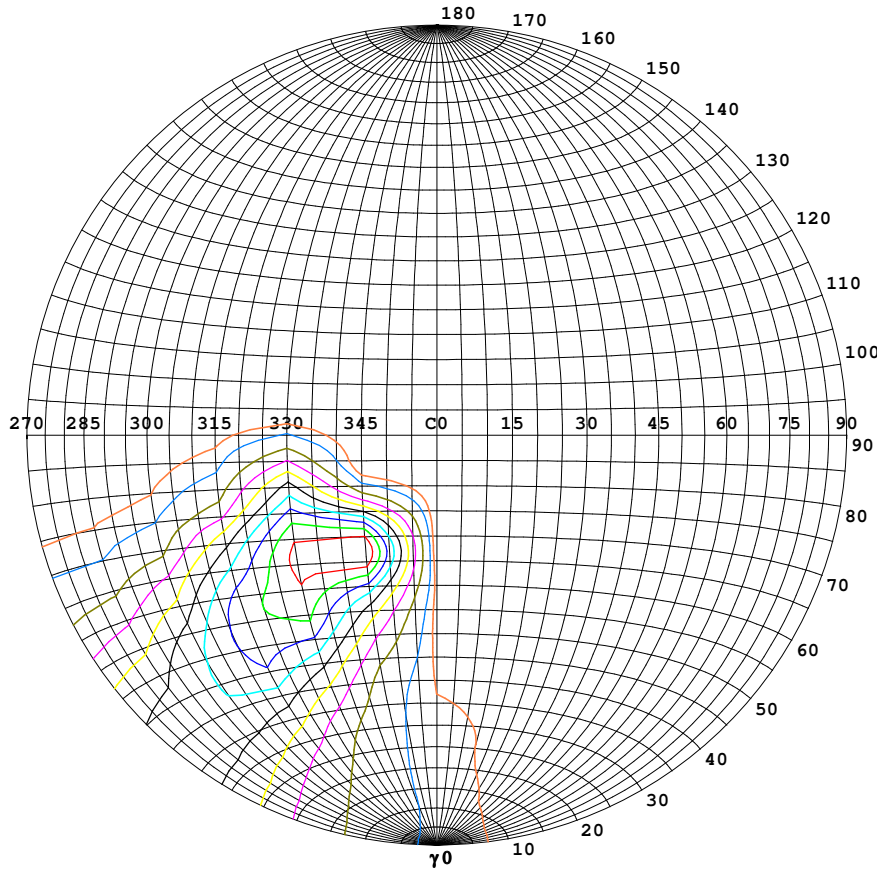


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators: L Y T P A
 Test Date: 14/08/2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
 Humidity: 25.0%
 Test Distance: 7.000m [K=1.0000]
 Remarks: CB11 11W 3000K

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:230.57V I:0.1217A P:11.181W PF:0.3984 Freq:50.01Hz Lamp Flux:1029.8x1 lm		
NAME: LED BOLLARD	TYPE:OUTDOOR	WEIGHT:3kg
SPEC.:11W	DIM.: 120X120X120	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:



Classification:

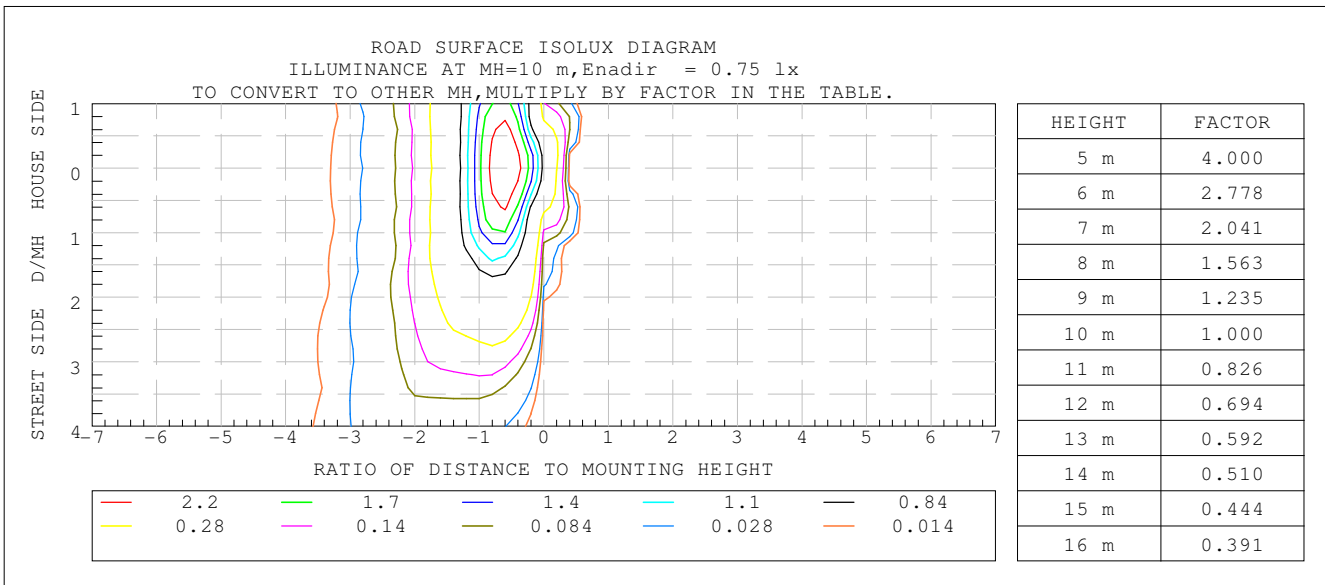
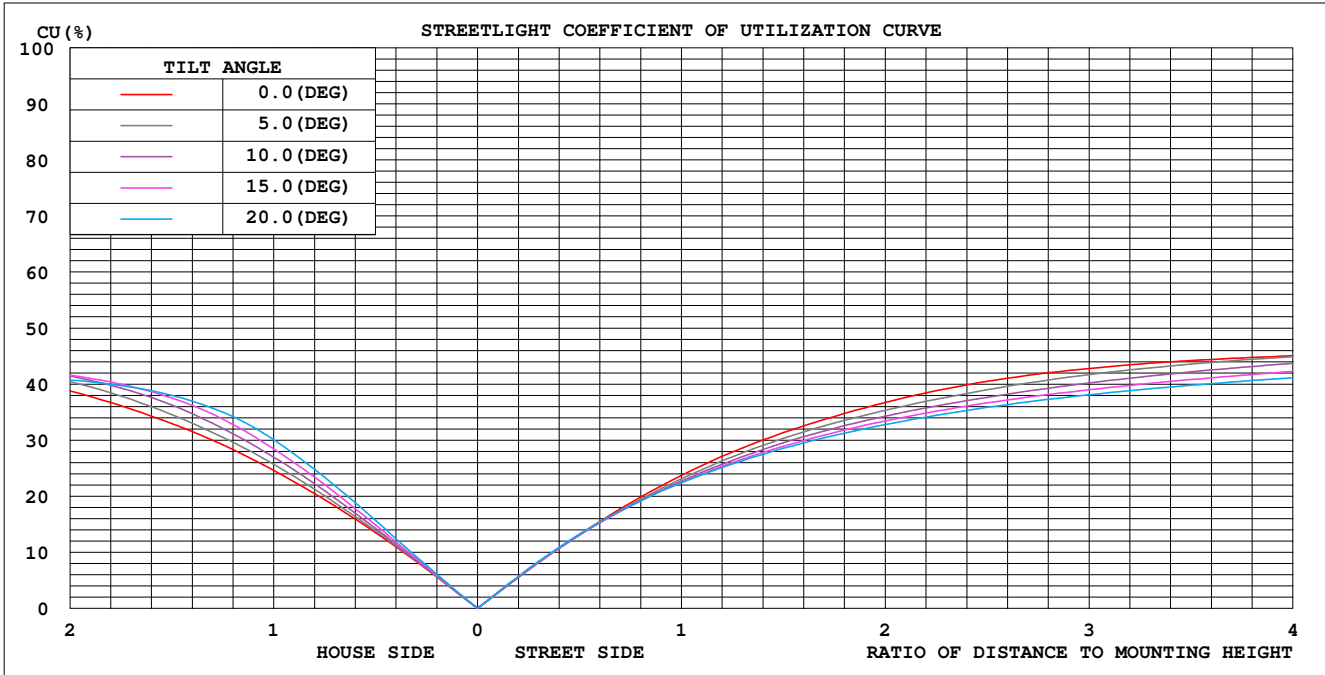
IES:Type III - Short
 CIE:Broad - Intermediate
 IES:None cut-off
 CIE:Non-cut-off
 Max.At80:546.8cd/klm
 Max.At90:212.6cd/klm
 Max.80-90:546.8cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	907
90%	817
80%	726
70%	635
60%	544
50%	454
40%	363
30%	272
20%	181
10%	91
5%	45

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:L Ý T P A
Test Date:14/08/2023

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:25.0%
Test Distance:7.000m [K=1.0000]
Remarks: CB11 11W 3000K

COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25DEG
Operators: L Y T P A
Test Date: 14/08/2023

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity: 25.0%
Test Distance: 7.000m [K=1.0000]
Remarks: CB11 11W 3000K

ZONAL FLUX DIAGRAM

Test:U:230.57V I:0.1217A P:11.181W PF:0.3984 Freq:50.01Hz Lamp Flux:1029.8x1 lm		
NAME: LED BOLLARD	TYPE:OUTDOOR	WEIGHT:3kg
SPEC.:11W	DIM.: 120X120X120	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

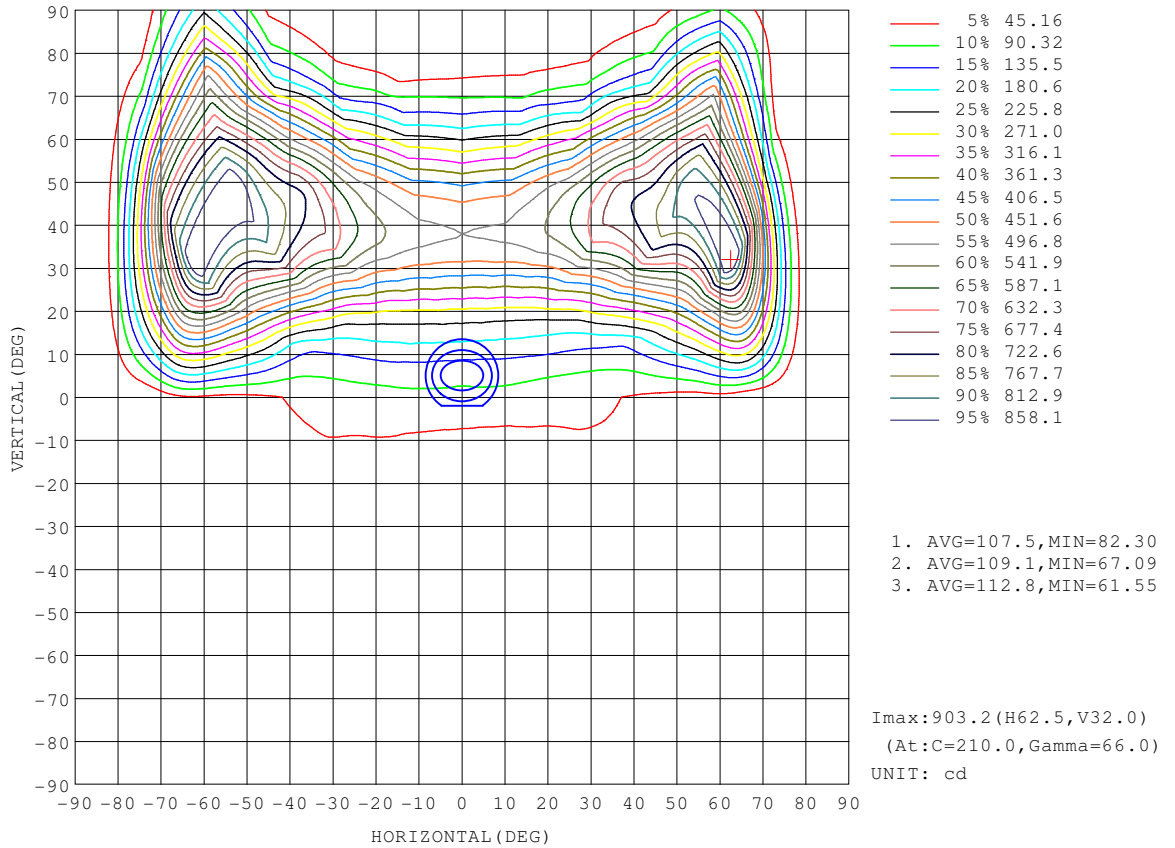
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	ϕ zone	ϕ total	ϕ lum, lamp
10	69.90	45.29	38.96	46.45	75.38	126.5	155.0	119.0	0- 10	7.607	7.607	0.74,0.74
20	63.64	17.42	1.933	18.55	71.96	201.9	272.0	186.0	10- 20	26.79	34.40	3.34,3.34
30	53.44	4.724	0	7.310	60.19	329.2	447.9	304.0	20- 30	58.60	92.99	9.03,9.03
40	40.00	0	0	0	46.21	551.2	505.4	501.9	30- 40	111.7	204.7	19.9,19.9
50	26.99	0	0	0	33.18	699.3	406.5	671.6	40- 50	173.6	378.3	36.7,36.7
60	26.90	0	0	0	36.95	698.4	228.6	664.0	50- 60	220.6	598.9	58.2,58.2
70	1.589	0	0	0	16.21	456.5	80.80	429.0	60- 70	231.5	830.4	80.6,80.6
80	0	0	0	0	0	164.0	0	138.4	70- 80	147.1	977.5	94.9,94.9
90	0	0	0	0	0	37.87	0	27.40	80- 90	46.45	1024	99.4,99.4
100	0	0	0	0	0	0	0	0	90-100	5.805	1030	100,100
110	0	0	0	0	0	0	0	0	100-110	0.0061	1030	100,100
120	0	0	0	0	0	0	0	0	110-120	0	1030	100,100
130	0	0	0	0	0	0	0	0	120-130	0	1030	100,100
140	0	0	0	0	0	0	0	0	130-140	0	1030	100,100
150	0	0	0	0	0	0	0	0	140-150	0	1030	100,100
160	0	0	0	0	0	0	0	0	150-160	0	1030	100,100
170	0	0	0	0	0	0	0	0	160-170	0	1030	100,100
180	0	0	0	0	0	0	0	0	170-180	0	1030	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm			

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:L Ý T P A
Test Date:14/08/2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:25.0%
Test Distance:7.000m [K=1.0000]
Remarks: CB11 11W 300K

ISOCANDELA DIAGRAM

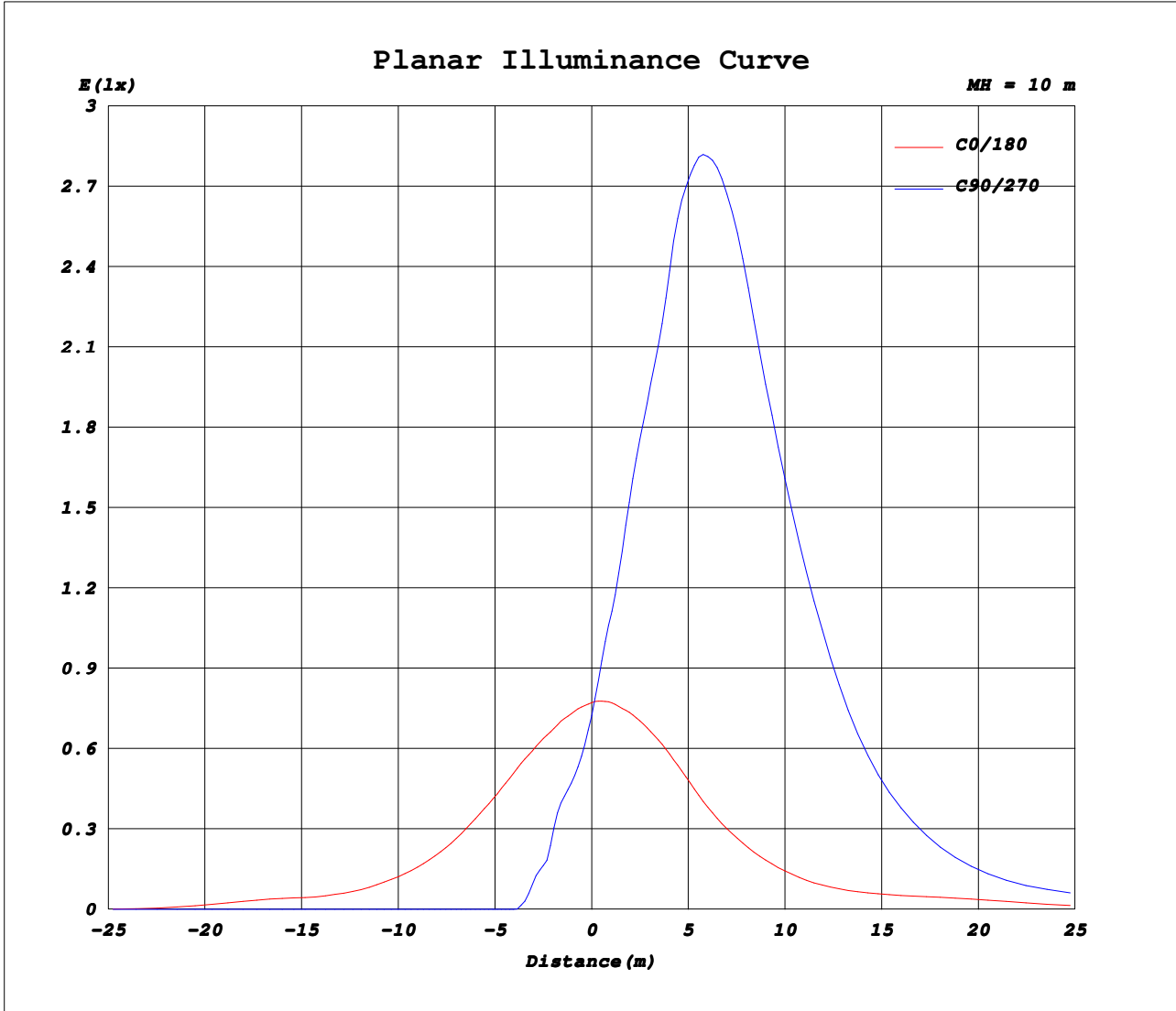
Test:U:230.57V I:0.1217A P:11.181W PF:0.3984 Freq:50.01Hz Lamp Flux:1029.8x1 lm		
NAME: LED BOLLARD	TYPE:OUTDOOR	WEIGHT:3kg
SPEC.:11W	DIM.: 120X120X120	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25DEG
Operators: L Y T P A
Test Date: 14/08/2023

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity: 25.0%
Test Distance: 7.000m [K=1.0000]
Remarks: CB11 11W 3000K

Planar Illuminance Curve



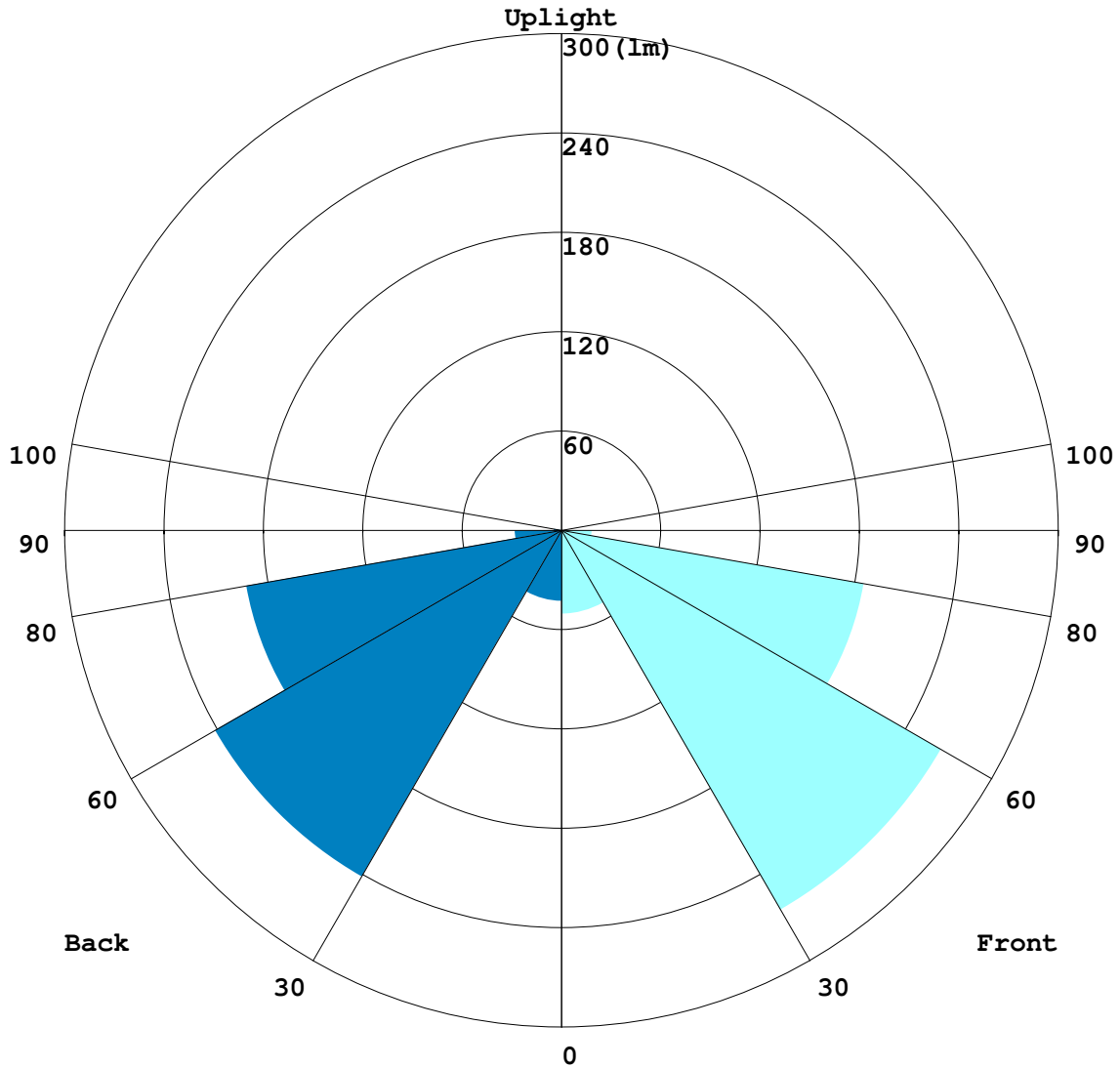
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25DEG
Operators: L Ý T P A
Test Date: 14/08/2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity: 25.0%
Test Distance: 7.000m [K=1.0000]
Remarks: CB11 11W 3000K

LCS REPORT

Test:U:230.57V I:0.1217A P:11.181W PF:0.3984 Freq:50.01Hz Lamp Flux:1029.8x1 lm		
NAME: LED BOLLARD	TYPE:OUTDOOR	WEIGHT:3kg
SPEC.:11W	DIM.: 120X120X120	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25DEG
Operators: L Y T P A
Test Date: 14/08/2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity: 25.0%
Test Distance: 7.000m [K=1.0000]
Remarks: CB11 11W 3000K

BUG REPORT

Test:U:230.57V I:0.1217A P:11.181W PF:0.3984 Freq:50.01Hz Lamp Flux:1029.8x1 lm		
NAME: LED BOLLARD	TYPE:OUTDOOR	WEIGHT:3kg
SPEC.:11W	DIM.: 120X120X120	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	50.387	4.9
FM - Front-Medium(30-60)	264.46	25.7
FH - Front-High(60-80)	185.4	18.0
FVH - Front-Very High(80-90)	18.29	1.8
Total Forward Light	519.88	50.5

BL - Back-Low(0-30)	42.607	4.1
BM - Back-Medium(30-60)	241.42	23.4
BH - Back-High(60-80)	193.26	18.8
BVH - Back-Very High(80-90)	28.165	2.7
Total Back Light	509.92	49.5

UL - Uplight-Low(90-100)	5.8053	0.6
UH - Uplight-High(100-180)	0.0061396	0.0
Total Up Light	5.8115	0.6

BUG (Back, Up, Glare) Rating	B1-U1-G1
------------------------------	----------

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	505.45	4.4751	509.92
Street Side	518.54	1.3363	519.88

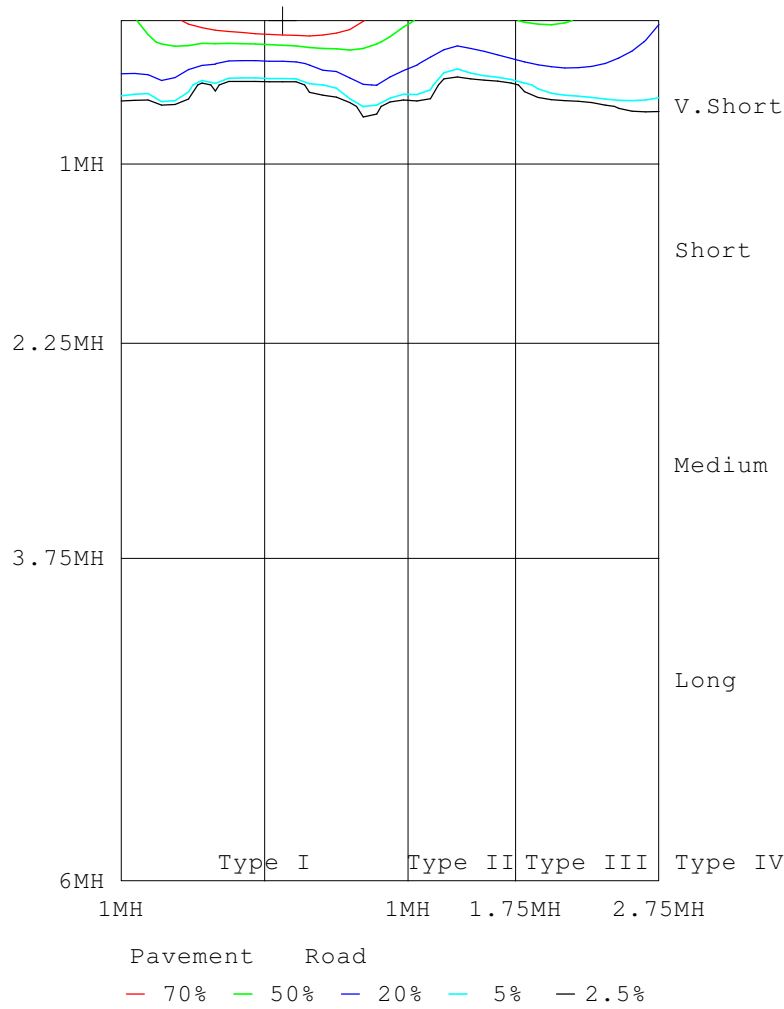
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25DEG
Operators: L Y T P A
Test Date: 14/08/2023

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity: 25.0%
Test Distance: 7.000m [K=1.0000]
Remarks: CB11 11W 3000K

ROAD ISOCANDELA REPORT

Test:U:230.57V I:0.1217A P:11.181W PF:0.3984 Freq:50.01Hz Lamp Flux:1029.8x1 lm		
NAME: LED BOLLARD	TYPE:OUTDOOR	WEIGHT:3kg
SPEC.:11W	DIM.: 120X120X120	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25DEG
Operators: L Y T P A
Test Date: 14/08/2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity: 25.0%
Test Distance: 7.000m [K=1.0000]
Remarks: CB11 11W 3000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.57V I:0.1217A P:11.181W PF:0.3984 Freq:50.01Hz Lamp Flux:1029.8x1 lm		
NAME: LED BOLLARD	TYPE:OUTDOOR	WEIGHT:3kg
SPEC.:11W	DIM.: 120X120X120	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
5	72.5	65.2	59.6	55.9	53.5	52.3	52.2	52.8	54.2	57.1	61.1	67.5	75.9	84.7	93.2	101	107	109	111
10	69.9	57.6	49.5	45.3	42.1	40.1	39.0	40.9	42.9	46.5	51.5	60.9	75.4	93.1	110	127	142	152	155
15	67.1	51.3	43.5	32.8	19.8	17.5	16.9	17.8	20.8	37.4	46.1	55.6	74.4	99.9	131	166	190	204	208
20	63.6	47.4	37.5	17.4	10.01	2.62	1.93	3.35	12.0	18.6	41.5	51.3	72.0	104	157	202	239	264	272
25	58.8	45.1	25.9	12.3	0.00	0.00	0.00	0.00	0.01	13.4	32.7	48.2	67.3	110	182	245	315	356	367
30	53.4	42.9	20.1	4.72	0.00	0.00	0.00	0.00	0.00	7.31	23.5	45.1	60.2	118	213	329	408	439	448
35	46.7	39.1	18.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.7	39.6	53.1	131	289	436	492	501	502
40	40.0	34.2	15.9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.1	32.6	46.2	167	402	551	556	518	505
45	33.6	28.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.87	23.6	39.5	255	548	656	567	489	469
50	27.0	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.5	33.2	372	705	699	549	437	406
55	24.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.5	515	814	723	496	351	314
60	26.9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.9	709	865	698	397	261	229
65	11.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.9	871	906	586	294	167	149
70	1.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.2	822	850	457	177	102	80.8
75	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	645	701	297	94.2	37.9	43.3
80	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	352	563	164	45.0	9.38	0.00
85	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	94.9	387	86.0	15.8	0.00	0.00
90	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	0.06	219	37.9	1.67	0.00	0.00
95	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	72.3	5.59	0.00	0.00	0.00
100	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	2.75	0.00	0.00	0.00	0.00
105	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	0.00	0.00	0.00	0.00
110	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	0.00	0.00	0.00	0.00
115	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	0.00	0.00	0.00	0.00
120	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	0.00	0.00	0.00	0.00
125	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	0.00	0.00	0.00	0.00
130	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	0.00	0.00	0.00	0.00
135	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	0.00	0.00	0.00	0.00
140	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	0.00	0.00	0.00	0.00
145	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	0.00	0.00	0.00	0.00
150	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	0.00	0.00	0.00	0.00
155	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	0.00	0.00	0.00	0.00
160	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	0.00	0.00	0.00	0.00
165	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	0.00	0.00	0.00	0.00
170	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	0.00	0.00	0.00	0.00
175	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	0.00	0.00	0.00	0.00
180	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	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators: L Y T P A
 Test Date: 14/08/2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
 Humidity: 25.0%
 Test Distance: 7.000m [K=1.0000]
 Remarks: CB11 11W 3000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.57V I:0.1217A P:11.181W PF:0.3984 Freq:50.01Hz Lamp Flux:1029.8x1 lm		
NAME: LED BOLLARD	TYPE:OUTDOOR	WEIGHT:3kg
SPEC.:11W	DIM.: 120X120X120	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	74.8	74.8	74.8	74.8	74.8														
5	108	103	96.9	89.1	80.7														
10	149	136	119	102	86.1														
15	199	181	152	117	88.7														
20	257	226	186	139	91.1														
25	348	298	227	160	95.0														
30	430	386	304	190	101														
35	492	465	396	255	111														
40	511	531	502	345	136														
45	487	555	615	463	192														
50	436	548	672	608	274														
55	351	494	696	727	387														
60	263	392	664	788	576														
65	169	289	554	827	825														
70	94.3	165	429	785	781														
75	47.7	90.1	255	649	434														
80	15.7	44.1	138	482	108														
85	0.00	19.7	69.0	270	0.06														
90	0.00	2.77	27.4	95.2	0.00														
95	0.00	0.00	3.04	7.33	0.00														
100	0.00	0.00	0.00	0.00	0.00														
105	0.00	0.00	0.00	0.00	0.00														
110	0.00	0.00	0.00	0.00	0.00														
115	0.00	0.00	0.00	0.00	0.00														
120	0.00	0.00	0.00	0.00	0.00														
125	0.00	0.00	0.00	0.00	0.00														
130	0.00	0.00	0.00	0.00	0.00														
135	0.00	0.00	0.00	0.00	0.00														
140	0.00	0.00	0.00	0.00	0.00														
145	0.00	0.00	0.00	0.00	0.00														
150	0.00	0.00	0.00	0.00	0.00														
155	0.00	0.00	0.00	0.00	0.00														
160	0.00	0.00	0.00	0.00	0.00														
165	0.00	0.00	0.00	0.00	0.00														
170	0.00	0.00	0.00	0.00	0.00														
175	0.00	0.00	0.00	0.00	0.00														
180	0.00	0.00	0.00	0.00	0.00														

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:L Ý T P A
Test Date:14/08/2023

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:25.0%
Test Distance:7.000m [K=1.0000]
Remarks: CB11 11W 300K