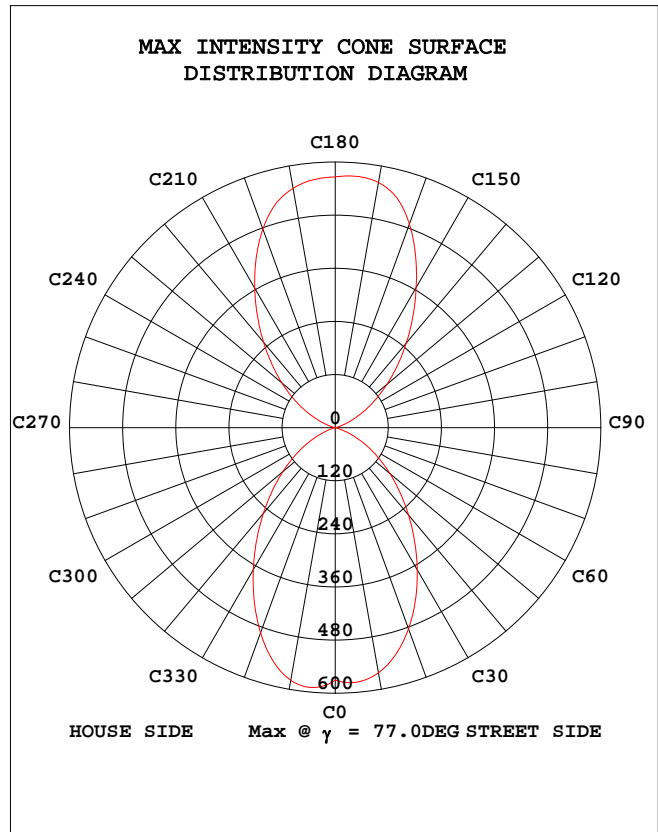
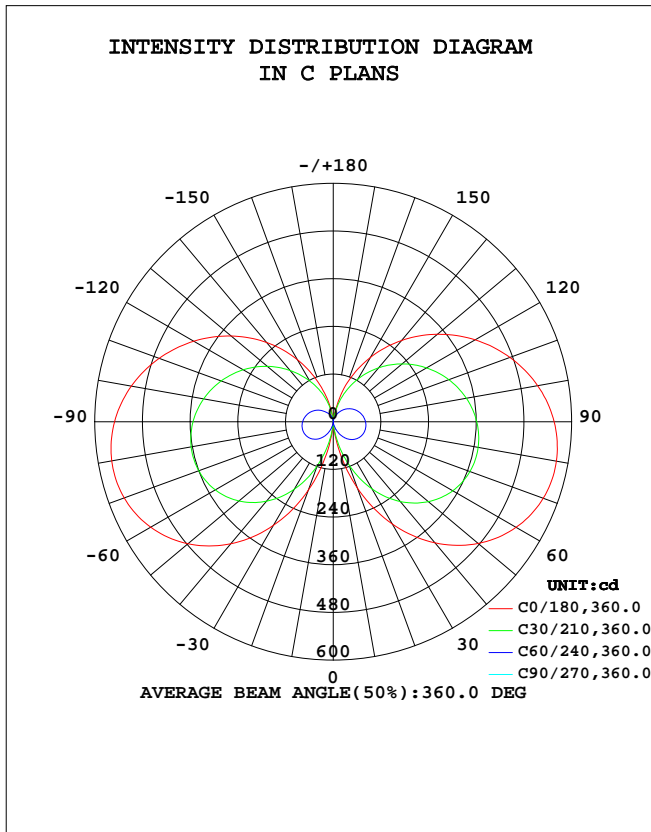


## EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:221.30V I:0.1206A P:24.710W PF:0.9256 Freq:50.01Hz Lamp Flux:1818x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:2835 30K RA80	DIM.: 600*100*50	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 73.57 lm/W			
MODEL	C-140D-25W-240	Imax(cd)	570.3	$\eta$ street_up(%)	22.4
NOMINAL POWER(W)	25	LOR(%)	100.0	$\eta$ street_down(%)	27.8
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	1818	$\eta$ house_up(%)	22.2
NOMINAL FLUX(lm)	1818	MAXIMUM @(C, $\gamma$ )	0,77.0	$\eta$ house_down(%)	27.6
LAMPS INSIDE	1	$\eta$ up(%)	44.6	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	230.0	$\eta$ down(%)	55.4	SLI	18.691



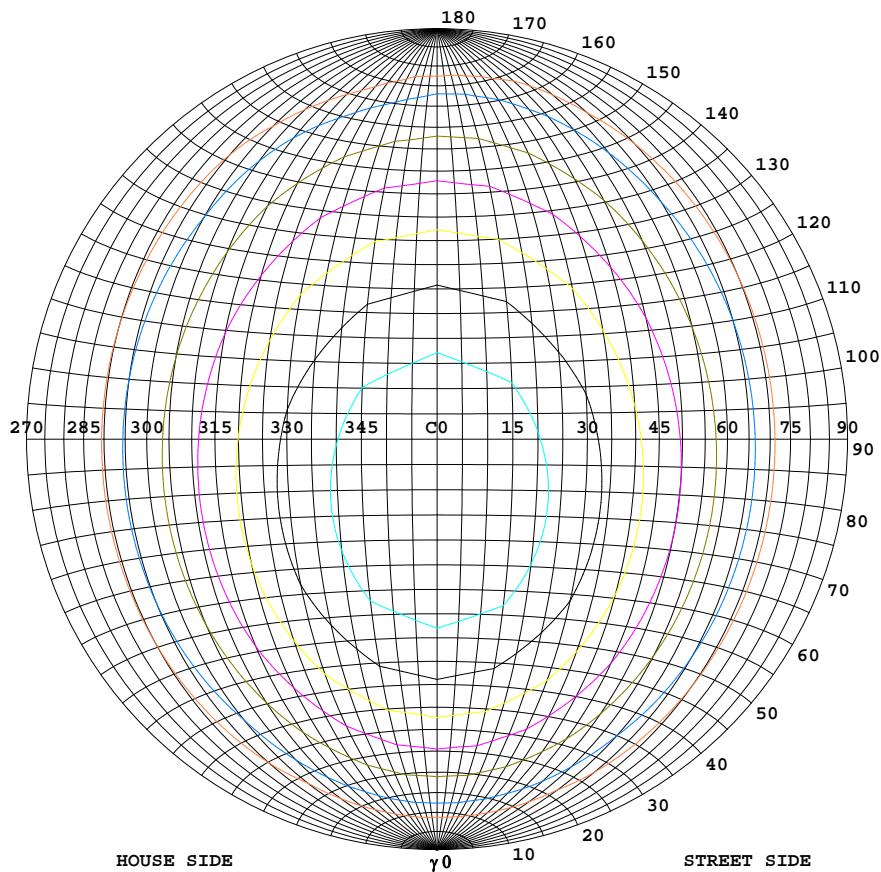
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:13.9DEG  
Operators:CS01  
Test Date:2023-10-08

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
Humidity:38.0%  
Test Distance:1.917m [K=1.0000]  
Remarks: C-140D-25W-240(2835 30K RA80)

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## STREETLIGHT ISOCANDELA DIAGRAM

Test:U:221.30V I:0.1206A P:24.710W PF:0.9256 Freq:50.01Hz Lamp Flux:1818x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:2835 30K RA80	DIM.: 600*100*50	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



### Classification:

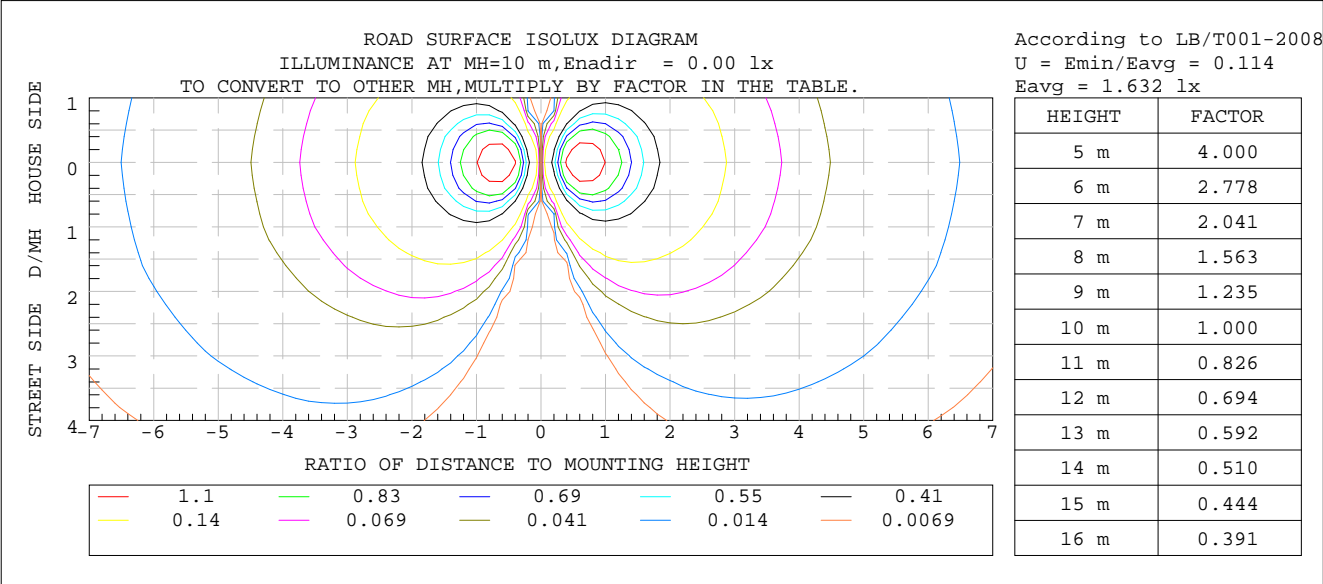
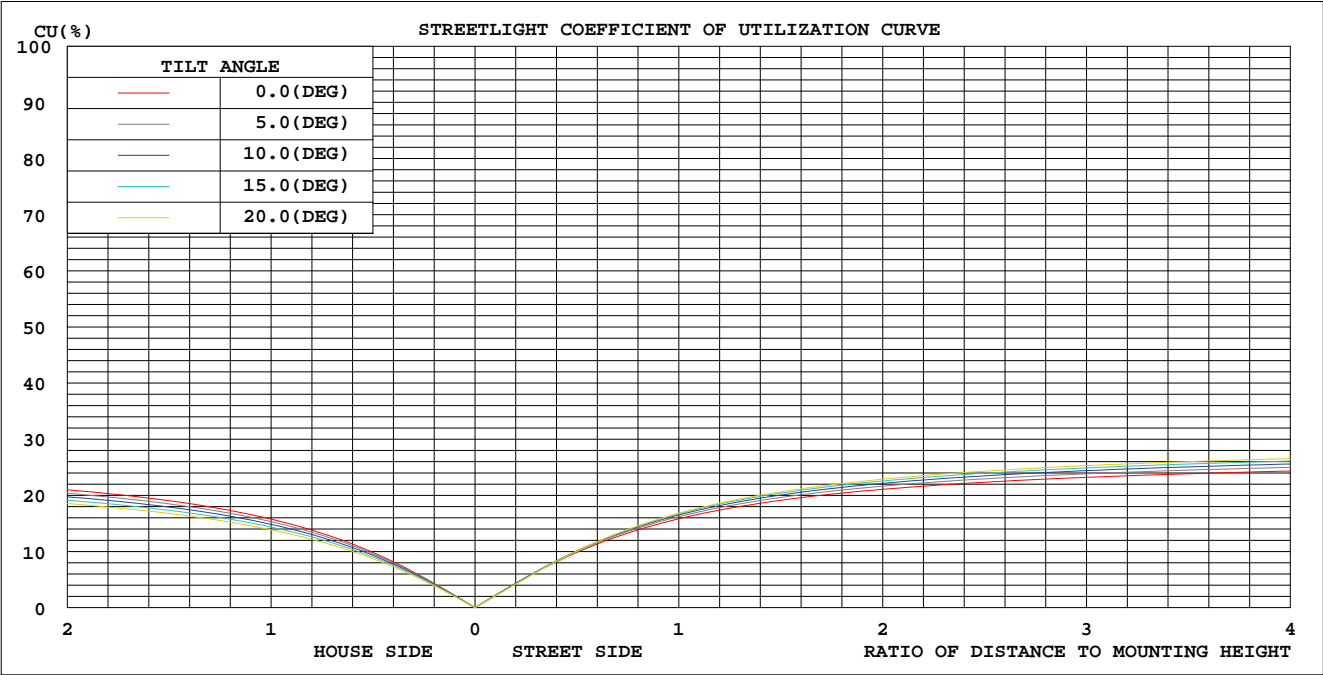
IES:Type I - Long  
 CIE:Narrow - Long  
 IES:None cut-off  
 CIE:Non-cut-off  
 Max.At80:313.6cd/klm  
 Max.At90:305.8cd/klm  
 Max.80-90:313.6cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	570
90%	513
80%	456
70%	399
60%	342
50%	285
40%	228
30%	171
20%	114
10%	57
5%	29

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:13.9DEG  
 Operators:CS01  
 Test Date:2023-10-08

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
 Humidity:38.0%  
 Test Distance:1.917m [K=1.0000]  
 Remarks: C-140D-25W-240(2835 30K RA80)

COEFFICIENT OF UTILIZATION CURVE  
AND ISOLUX DIAGRAM



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:13.9DEG  
Operators:CS01  
Test Date:2023-10-08

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
Humidity:38.0%  
Test Distance:1.917m [K=1.0000]  
Remarks: C-140D-25W-240(2835 30K RA80)

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## ZONAL FLUX DIAGRAM

Test:U:221.30V I:0.1206A P:24.710W PF:0.9256 Freq:50.01Hz Lamp Flux:1818x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:2835 30K RA80	DIM.: 600*100*50	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum,lamp
10	54.59	16.12	0.2252	17.66	60.23	18.09	0.2147	15.56	0- 10	0.8193	0.8193	0.05,0.05
20	177.1	61.13	0.2084	61.86	182.8	62.84	0.1904	58.48	10- 20	11.70	12.52	0.69,0.69
30	296.8	107.5	0.1826	106.6	301.2	107.9	0.1622	103.0	20- 30	38.67	51.19	2.82,2.82
40	397.9	146.2	0.1494	143.5	400.6	145.2	0.1355	140.5	30- 40	76.55	127.7	7.03,7.03
50	476.4	175.2	0.1194	170.6	477.7	173.1	0.1107	168.8	40- 50	118.2	246.0	13.5,13.5
60	531.3	194.3	0.0927	188.2	530.7	191.1	0.0876	187.7	50- 60	157.0	403.0	22.2,22.2
70	562.6	204.5	0.0733	197.1	560.0	200.3	0.0642	198.1	60- 70	187.6	590.6	32.5,32.5
80	570.1	206.5	0.0643	198.2	566.0	201.5	0.0472	200.7	70- 80	206.1	796.7	43.8,43.8
90	555.9	201.7	0.0664	192.4	550.4	195.8	0.0469	196.4	80- 90	210.8	1008	55.4,55.4
100	522.4	190.4	0.0664	180.6	516.1	183.9	0.0505	185.9	90-100	201.9	1209	66.5,66.5
110	473.4	174.0	0.0670	163.7	466.6	166.8	0.0528	170.1	100-110	180.9	1390	76.5,76.5
120	412.6	152.9	0.0711	142.6	405.5	145.3	0.0620	149.5	110-120	151.3	1542	84.8,84.8
130	342.8	127.9	0.0812	117.6	336.1	120.3	0.0798	125.2	120-130	116.7	1658	91.2,91.2
140	267.0	99.73	0.0950	89.78	260.4	92.29	0.1040	97.22	130-140	81.31	1740	95.7,95.7
150	187.0	69.22	0.1178	60.01	180.7	64.82	0.1295	63.97	140-150	48.86	1788	98.4,98.4
160	105.5	38.06	0.1408	30.46	99.26	40.33	0.1515	27.03	150-160	22.90	1811	99.6,99.6
170	26.17	10.64	0.1536	5.242	26.69	11.78	0.1407	3.838	160-170	6.259	1818	100,100
180	0.1970	0.1660	0.1239	0.1337	0.2028	0.1561	0.1258	0.1423	170-180	0.3374	1818	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

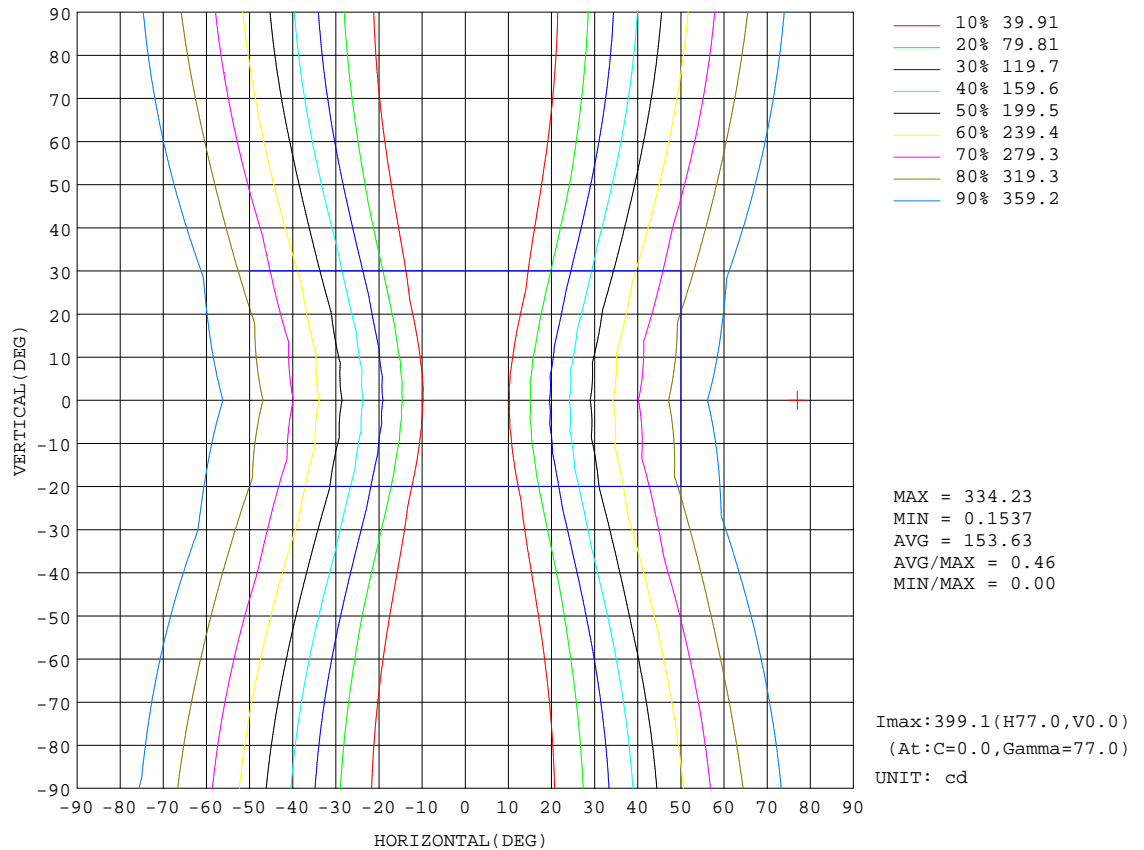
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:13.9DEG  
 Operators:CS01  
 Test Date:2023-10-08

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
 Humidity:38.0%  
 Test Distance:1.917m [K=1.0000]  
 Remarks: C-140D-25W-240(2835 30K RA80)

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## ISOCANDELA DIAGRAM

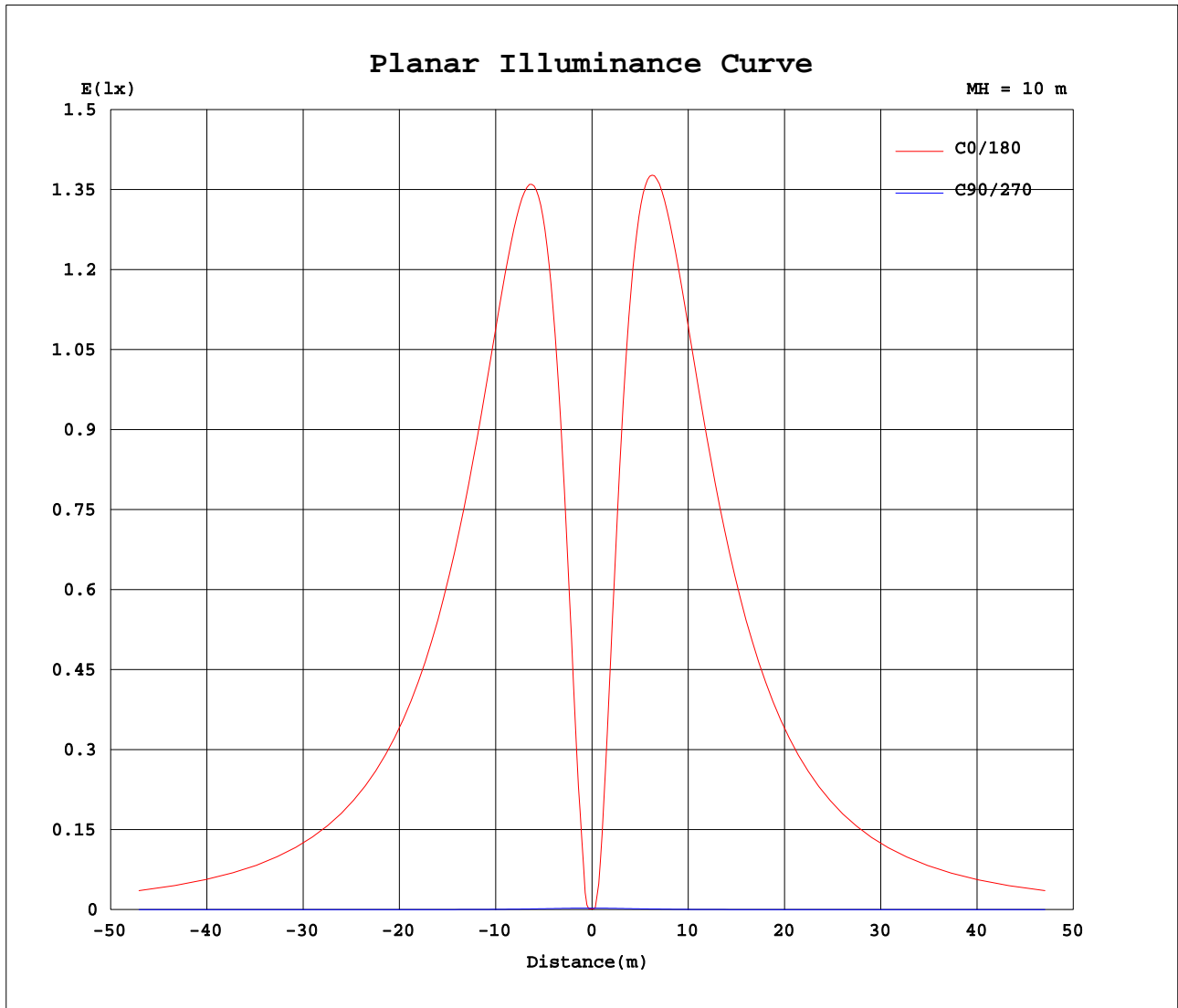
Test:U:221.30V I:0.1206A P:24.710W PF:0.9256 Freq:50.01Hz Lamp Flux:1818x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:2835 30K RA80	DIM.: 600*100*50	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:13.9DEG  
Operators:CS01  
Test Date:2023-10-08

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
Humidity:38.0%  
Test Distance:1.917m [K=1.0000]  
Remarks: C-140D-25W-240(2835 30K RA80)

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 13.9DEG  
Operators: CS01  
Test Date: 2023-10-08

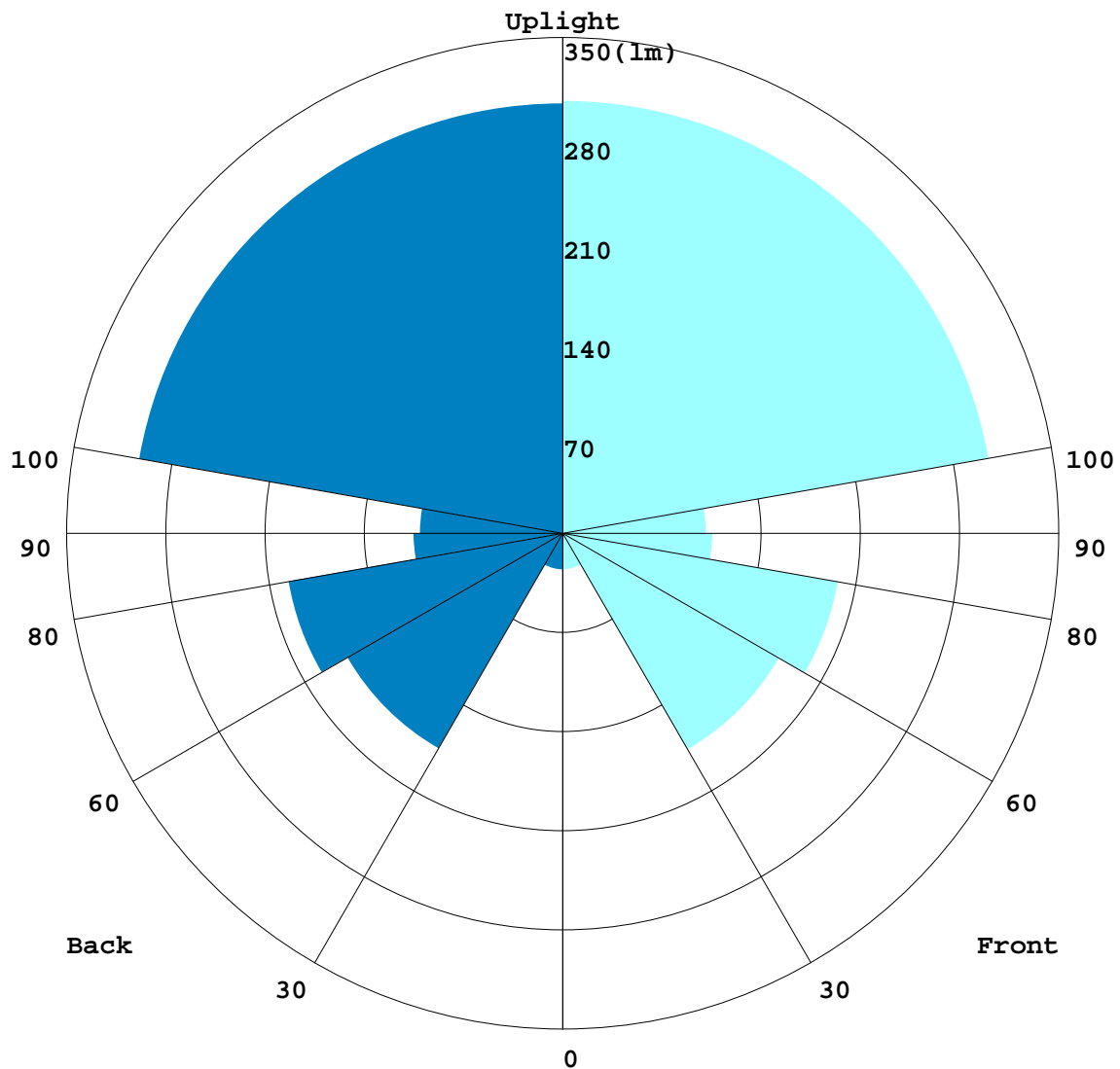
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
Humidity: 38.0%  
Test Distance: 1.917m [K=1.0000]  
Remarks: C-140D-25W-240(2835 30K RA80)

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## LCS REPORT

Test:U:221.30V I:0.1206A P:24.710W PF:0.9256 Freq:50.01Hz Lamp Flux:1818x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:2835 30K RA80	DIM.: 600*100*50	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

## LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:13.9DEG  
Operators:CS01  
Test Date:2023-10-08

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
Humidity:38.0%  
Test Distance:1.917m [K=1.0000]  
Remarks: C-140D-25W-240(2835 30K RA80)

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## BUG REPORT

Test:U:221.30V I:0.1206A P:24.710W PF:0.9256 Freq:50.01Hz Lamp Flux:1818x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:2835 30K RA80	DIM.: 600*100*50	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

### IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	25.603	1.4
FM - Front-Medium(30-60)	176.39	9.7
FH - Front-High(60-80)	197.36	10.9
FVH - Front-Very High(80-90)	105.68	5.8
Total Forward Light	911.38	50.1

BL - Back-Low(0-30)	25.588	1.4
BM - Back-Medium(30-60)	175.43	9.6
BH - Back-High(60-80)	196.32	10.8
BVH - Back-Very High(80-90)	105.16	5.8
Total Back Light	906.61	49.9

UL - Uplight-Low(90-100)	201.86	11.1
UH - Uplight-High(100-180)	608.61	33.5
Total Up Light	810.47	44.6

BUG(Back,Up,Glare) Rating	B1-U4-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	502.49	404.12	906.61
Street Side	505.04	406.35	911.38

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:13.9DEG  
 Operators:CS01  
 Test Date:2023-10-08

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
 Humidity:38.0%  
 Test Distance:1.917m [K=1.0000]  
 Remarks: C-140D-25W-240(2835 30K RA80)

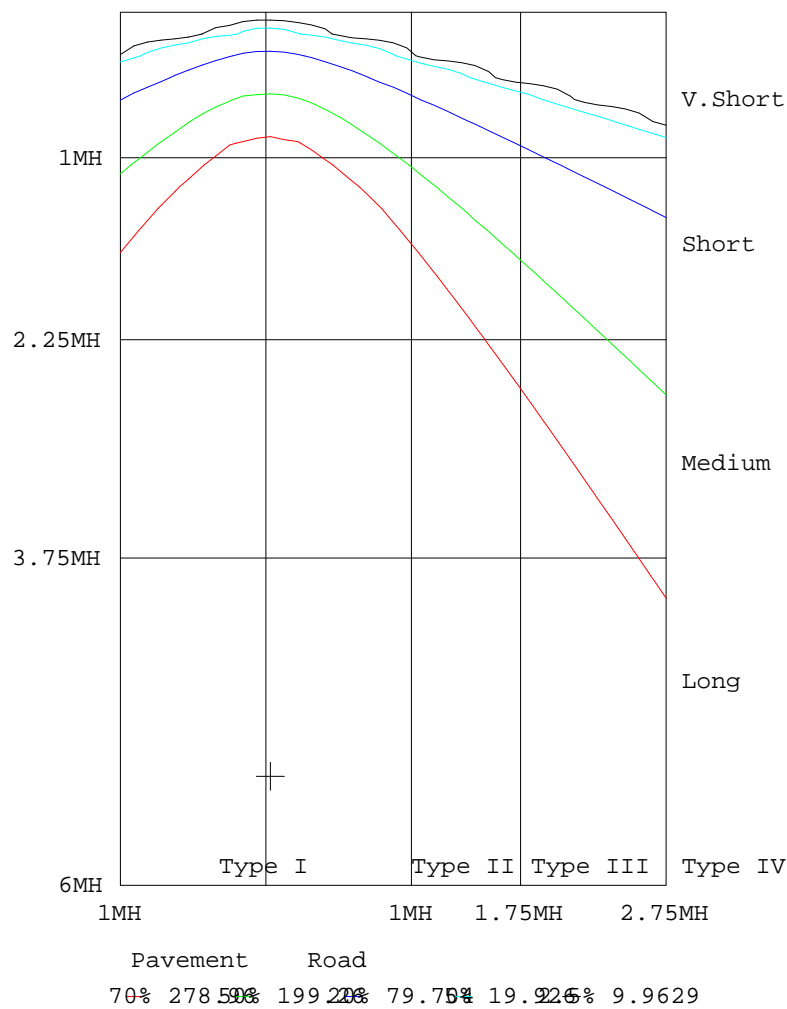


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:221.30V I:0.1206A P:24.710W PF:0.9256 Freq:50.01Hz Lamp Flux:1818x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:2835 30K RA80	DIM.: 600*100*50	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:13.9DEG  
Operators:CS01  
Test Date:2023-10-08

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
Humidity:38.0%  
Test Distance:1.917m [K=1.0000]  
Remarks: C-140D-25W-240(2835 30K RA80)

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:221.30V I:0.1206A P:24.710W PF:0.9256 Freq:50.01Hz Lamp Flux:1818x1 lm																			
NAME:										TYPE:					WEIGHT:				
SPEC.:2835 30K RA80										DIM.: 600*100*50					SERIAL No.:				
MFR.: KLED										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	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
5	11.87	8.73	5.16	1.92	0.40	0.23	0.23	0.22	0.58	2.71	6.83	12.66	13.10	11.92	7.44	3.31	0.68	0.22	0.22
10	54.6	50.3	33.5	16.1	4.31	0.46	0.23	0.57	5.04	17.7	36.4	55.6	60.2	55.7	37.0	18.1	5.26	0.65	0.21
15	114	106	72.6	37.4	11.9	1.11	0.22	1.24	12.5	38.7	75.8	113	120	111	76.0	39.5	12.9	1.34	0.20
20	177	165	115	61.1	21.1	1.66	0.21	1.77	21.1	61.9	118	174	183	170	118	62.8	21.9	1.85	0.19
25	239	223	156	84.9	30.6	2.01	0.20	2.10	30.0	84.9	159	233	244	227	158	86.1	31.2	2.16	0.18
30	297	277	195	108	40.0	2.22	0.18	2.28	38.5	107	197	288	301	280	196	108	40.2	2.33	0.16
35	350	327	231	128	48.7	2.40	0.17	2.36	46.4	126	232	338	354	328	231	128	48.5	2.43	0.15
40	398	371	262	146	56.5	2.64	0.15	2.41	53.4	143	263	382	401	372	261	145	55.9	2.52	0.14
45	440	410	290	162	63.3	2.90	0.13	2.44	59.5	158	290	422	442	410	288	160	62.3	2.64	0.12
50	476	444	313	175	69.0	3.18	0.12	2.47	64.5	171	312	455	478	442	310	173	67.7	2.76	0.11
55	507	472	332	186	73.7	3.46	0.11	2.49	68.5	181	331	483	507	469	329	183	72.0	2.88	0.10
60	531	494	347	194	77.4	3.71	0.09	2.51	71.6	188	345	505	531	491	343	191	75.4	2.97	0.09
65	550	512	359	200	80.1	3.92	0.08	2.52	73.7	194	356	521	548	507	353	197	77.7	3.03	0.07
70	563	523	366	205	82.0	4.10	0.07	2.53	75.0	197	362	532	560	517	360	200	79.2	3.06	0.06
75	569	529	370	207	82.9	4.23	0.07	2.51	75.6	199	366	537	566	522	363	202	79.8	3.06	0.05
80	570	530	370	207	83.1	4.32	0.06	2.48	75.4	198	365	537	566	522	363	202	79.7	3.03	0.05
85	566	525	367	205	82.5	4.36	0.06	2.44	74.5	196	361	532	561	517	360	199	78.8	2.97	0.05
90	556	516	361	202	81.3	4.36	0.07	2.39	73.0	192	355	522	550	508	353	196	77.3	2.89	0.05
95	542	503	352	197	79.4	4.32	0.07	2.32	70.8	187	345	508	535	494	344	191	75.1	2.78	0.05
100	522	486	340	190	77.0	4.23	0.07	2.25	68.1	181	333	490	516	476	331	184	72.3	2.65	0.05
105	500	465	326	183	73.9	4.11	0.07	2.18	64.9	173	319	468	493	455	317	176	69.0	2.51	0.05
110	473	441	310	174	70.4	3.96	0.07	2.10	61.2	164	302	443	467	431	300	167	65.2	2.36	0.05
115	444	414	291	164	66.3	3.77	0.07	2.02	57.0	154	284	416	437	404	282	157	60.9	2.21	0.06
120	413	385	271	153	61.8	3.57	0.07	1.94	52.4	143	263	386	406	375	262	145	56.2	2.08	0.06
125	378	354	250	141	56.8	3.34	0.07	1.86	47.5	130	242	354	372	344	240	133	51.0	1.97	0.07
130	343	320	227	128	51.4	3.09	0.08	1.78	42.2	118	218	320	336	311	217	120	45.5	1.89	0.08
135	306	286	203	114	45.6	2.83	0.09	1.69	36.7	104	194	285	299	276	193	106	39.7	1.81	0.09
140	267	250	177	99.7	39.5	2.56	0.10	1.59	31.0	89.8	169	249	260	241	168	92.3	33.9	1.73	0.10
145	228	213	151	84.7	33.2	2.27	0.11	1.47	25.2	75.0	143	211	221	205	143	78.3	28.6	1.66	0.12
150	187	176	124	69.2	26.8	1.97	0.12	1.30	19.4	60.0	116	172	181	169	119	64.8	24.1	1.62	0.13
155	146	137	96.9	53.5	20.4	1.65	0.13	1.06	13.8	45.0	88.9	134	140	133	94.5	52.7	20.6	1.82	0.14
160	105	99.4	69.8	38.1	14.2	1.31	0.14	0.75	8.66	30.5	62.2	95.0	99.3	95.9	70.2	40.3	17.1	2.42	0.15
165	62.3	58.9	39.6	21.3	7.69	0.85	0.15	0.39	4.22	17.1	36.9	57.9	60.5	59.4	44.6	26.3	11.8	2.27	0.18
170	26.2	28.7	20.2	10.6	3.66	0.51	0.15	0.15	0.46	5.24	14.6	25.5	26.7	26.4	20.0	11.8	4.92	0.89	0.14
175	1.45	4.24	3.53	1.58	0.49	0.17	0.14	0.14	0.14	0.16	0.30	0.93	2.98	3.09	2.40	1.14	0.30	0.12	0.13
180	0.20	0.20	0.19	0.17	0.15	0.13	0.12	0.12	0.12	0.13	0.16	0.06	0.20	0.20	0.18	0.16	0.14	0.13	0.13

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:13.9DEG  
Operators:CS01  
Test Date:2023-10-08

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
Humidity:38.0%  
Test Distance:1.917m [K=1.0000]  
Remarks: C-140D-25W-240(2835 30K RA80)

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:221.30V I:0.1206A P:24.710W PF:0.9256 Freq:50.01Hz Lamp Flux:1818x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:2835 30K RA80	DIM.: 600*100*50	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345													
0	0.23	0.23	0.23	0.23	0.23													
5	0.23	0.46	2.59	6.78	9.80													
10	0.43	3.82	15.6	33.9	52.7													
15	1.02	10.4	35.8	72.3	110													
20	1.55	18.5	58.5	114	170													
25	1.91	27.0	81.1	155	229													
30	2.13	35.5	103	194	285													
35	2.25	43.4	123	229	336													
40	2.33	50.6	141	261	381													
45	2.39	57.0	156	288	422													
50	2.43	62.4	169	312	456													
55	2.46	66.9	179	331	485													
60	2.49	70.5	188	346	508													
65	2.52	73.2	194	358	526													
70	2.55	75.1	198	365	538													
75	2.59	76.2	200	370	544													
80	2.62	76.6	201	370	545													
85	2.65	76.3	199	367	540													
90	2.66	75.3	196	361	531													
95	2.66	73.8	192	353	518													
100	2.64	71.6	186	341	500													
105	2.60	68.9	179	327	478													
110	2.56	65.6	170	310	453													
115	2.49	61.9	160	292	426													
120	2.42	57.7	150	272	396													
125	2.34	53.0	138	250	363													
130	2.25	48.0	125	227	329													
135	2.16	42.7	112	203	294													
140	2.00	36.8	97.2	177	256													
145	1.77	29.9	81.3	150	218													
150	1.51	22.2	64.0	121	177													
155	1.04	13.7	45.1	89.6	136													
160	0.46	6.21	27.0	59.0	93.8													
165	0.17	1.95	12.0	31.8	55.3													
170	0.15	0.55	3.84	10.24	21.1													
175	0.13	0.17	0.49	1.51	1.77													
180	0.13	0.13	0.14	0.16	0.18													

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:13.9DEG  
Operators:CS01  
Test Date:2023-10-08

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
γ Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
Humidity:38.0%  
Test Distance:1.917m [K=1.0000]  
Remarks: C-140D-25W-240(2835 30K RA80)