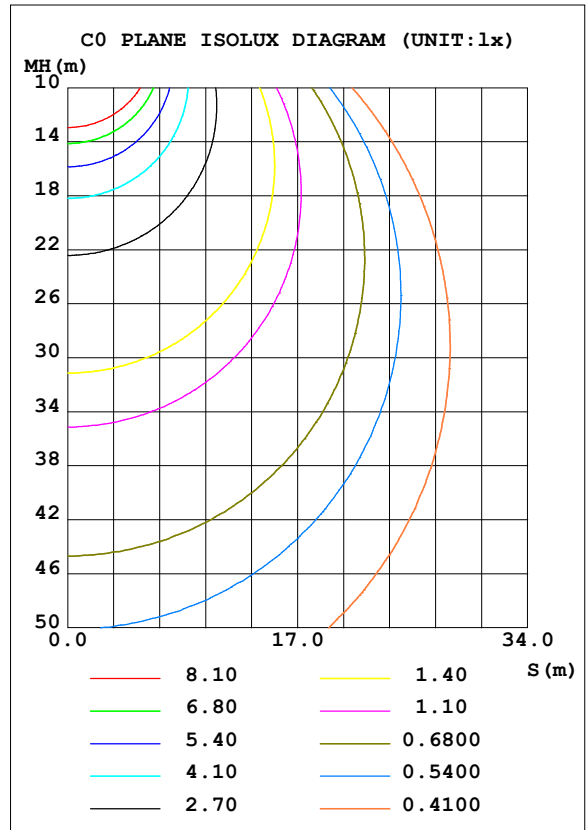
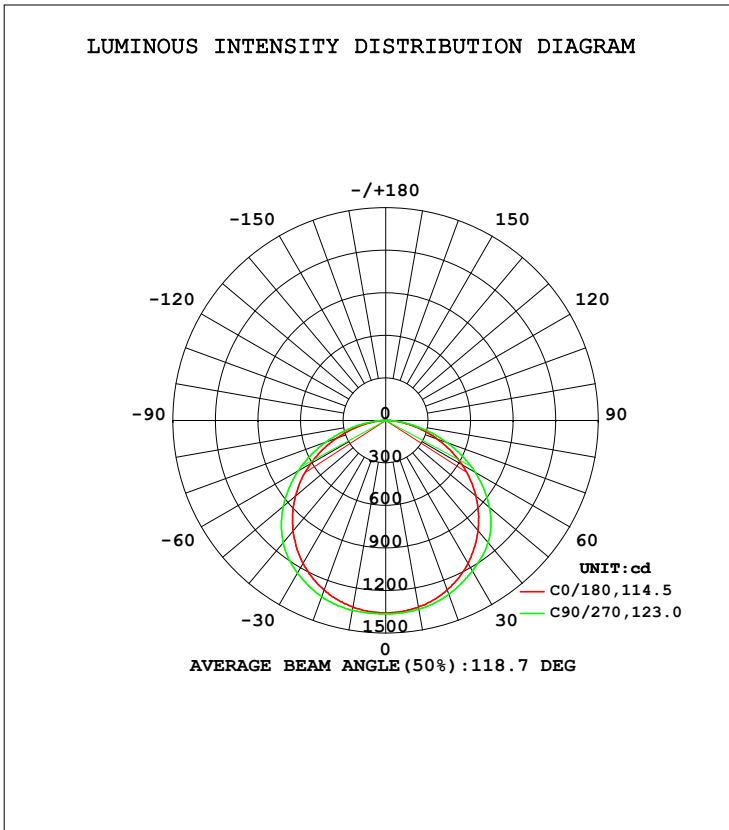


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.3510A P:41.55W PF:0.9863 Freq:60.01Hz Lamp Flux:4183.68x1 lm		
NAME: CT-DO1042PLC	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.17*0.26	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 100.68 lm/W			
MODEL	1'X4' LED Panel	I _{max} (cd)	1364	S/MH (C0/180)	1.28
NOMINAL POWER (W)	42W	LOR (%)	100.0	S/MH (C90/270)	1.36
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	4183.7	η UP, DN (C0-180)	0.0, 50.2
NOMINAL FLUX (lm)	4183.68	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 49.7
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)		η down (%)	100.0	CIBSE SHR MAX	1.50



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Paul
 Test Date: 2016-11-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.364
 Humidity: 65.0%
 Test Distance: 2.900m [K=0.8389]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270				γ	Φ zone	Φ total	%lum, lamp
10	1336	1351	1337	1359				0- 10	129.2	129.2	3.09,3.09
20	1272	1304	1273	1322				10- 20	374.2	503.4	12,12
30	1163	1224	1165	1245				20- 30	576.6	1080	25.8,25.8
40	1013	1123	1015	1127				30- 40	713.3	1793	42.9,42.9
50	830.7	954.9	831.7	942.5				40- 50	760.3	2554	61,61
60	620.7	726.9	613.2	713.3				50- 60	699.8	3253	77.8,77.8
70	390.3	461.8	371.0	449.9				60- 70	539.0	3792	90.6,90.6
80	165.8	192.7	140.2	185.6				70- 80	307.8	4100	98,98
90	8.301	6.729	0.3781	0.1490				80- 90	81.37	4182	100,100
100	0.0883	0.1006	0.4482	0.2334				90-100	0.6922	4182	100,100
110	0.1855	0.1579	0.2863	0.2669				100-110	0.2121	4183	100,100
120	0.2935	0.2208	0.2481	0.2103				110-120	0.2361	4183	100,100
130	0.3704	0.3172	0.2171	0.1423				120-130	0.2219	4183	100,100
140	0.3723	0.3316	0.2767	0.2002				130-140	0.2155	4183	100,100
150	0.3377	0.1997	0.4221	0.3895				140-150	0.1883	4183	100,100
160	0.3403	0.3565	0.4319	0.4423				150-160	0.1757	4184	100,100
170	0.2332	0.3302	0.4303	0.4428				160-170	0.1003	4184	100,100
180	0.3618	0.4131	0.3663	0.3634				170-180	0.0338	4184	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm		

Conical surface Flux(90deg): 2174.2 lm

%lum = 52.0%

%lamp = 52.0%

Conical surface Flux(120deg): 3253.4 lm

%lum = 77.8%

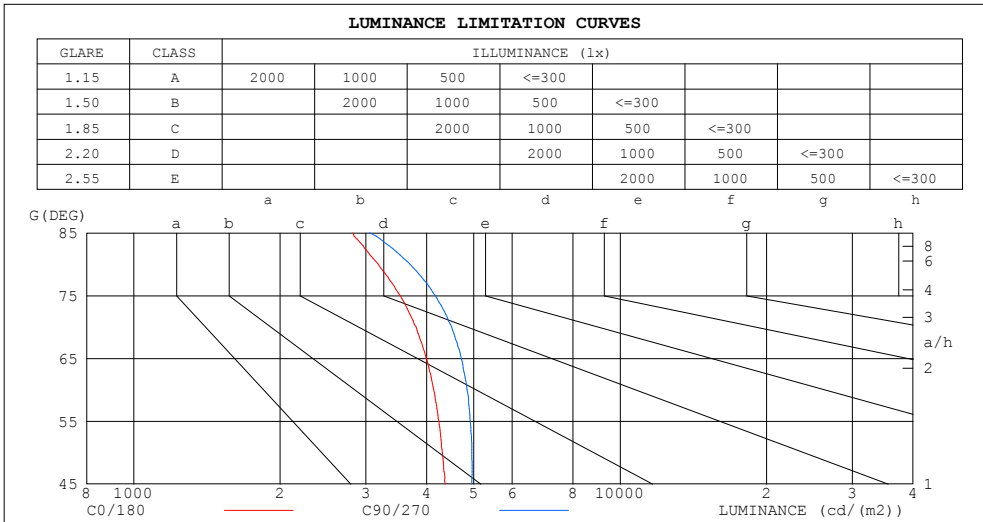
%lamp = 77.8%

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Paul
Test Date:2016-11-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.364
Humidity:65.0%
Test Distance:2.900m [K=0.8389]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.0V I:0.3510A P:41.55W PF:0.9863 Freq:60.01Hz Lamp Flux:4183.68x1 lm		
NAME: CT-DO1042PLC	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.17*0.26	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2825	3057
80	3183	3699
75	3528	4169
70	3804	4500
65	3997	4715
60	4138	4846
55	4237	4919
50	4308	4952
45	4366	4952

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Paul
Test Date:2016-11-11

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.364
Humidity:65.0%
Test Distance:2.900m [K=0.8389]
Remarks:

WEC AND CCEC

Test:U:120.0V I:0.3510A P:41.55W PF:0.9863 Freq:60.01Hz Lamp Flux:4183.68x1 lm														
NAME: CT-DO1042PLC					TYPE:					WEIGHT:				
SPEC.:					DIM.:					SERIAL No.:				
MFR.: EVERFINE					SUR.:1.17*0.26					Shielding Angle:				

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.315	.179	.057	.308	.176	.056	.295	.169	.054	.282	.163	.052	.271	.157	.051	
2.0	.297	.163	.050	.290	.160	.049	.278	.155	.048	.268	.150	.047	.258	.146	.046	
3.0	.274	.146	.044	.269	.144	.043	.258	.140	.043	.249	.136	.042	.240	.133	.041	
4.0	.253	.131	.039	.248	.130	.038	.239	.127	.038	.230	.124	.037	.222	.121	.037	
5.0	.233	.119	.034	.229	.118	.034	.221	.115	.034	.213	.113	.033	.206	.110	.033	
6.0	.216	.108	.031	.212	.107	.031	.205	.105	.031	.198	.103	.030	.192	.101	.030	
7.0	.201	.099	.028	.198	.098	.028	.191	.097	.028	.185	.095	.028	.179	.093	.027	
8.0	.188	.092	.026	.185	.091	.026	.179	.089	.026	.173	.088	.025	.168	.086	.025	
9.0	.176	.085	.024	.173	.084	.024	.168	.083	.024	.163	.082	.023	.158	.080	.023	
10.0	.165	.079	.022	.163	.079	.022	.158	.077	.022	.153	.076	.022	.149	.075	.022	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.191	.191	.191	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.181	.156	.134	.155	.134	.116	.106	.092	.080	.061	.053	.046	.020	.017	.015	
2.0	.173	.132	.098	.148	.114	.085	.102	.079	.059	.059	.046	.035	.019	.015	.011	
3.0	.166	.115	.074	.142	.099	.064	.098	.069	.045	.056	.040	.027	.018	.013	.009	
4.0	.158	.101	.058	.136	.088	.051	.093	.061	.036	.054	.036	.021	.017	.012	.007	
5.0	.151	.091	.047	.129	.079	.041	.089	.055	.029	.052	.032	.017	.017	.011	.006	
6.0	.144	.083	.039	.123	.072	.034	.085	.050	.024	.049	.030	.014	.016	.010	.005	
7.0	.137	.076	.033	.118	.066	.029	.081	.046	.021	.047	.027	.012	.015	.009	.004	
8.0	.130	.070	.029	.112	.061	.025	.078	.043	.018	.045	.025	.011	.015	.008	.004	
9.0	.124	.065	.025	.107	.057	.022	.074	.040	.016	.043	.023	.009	.014	.008	.003	
10.0	.118	.061	.023	.102	.053	.020	.071	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Paul
Test Date:2016-11-11

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.364
Humidity:65.0%
Test Distance:2.900m [K=0.8389]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.0V I:0.3510A P:41.55W PF:0.9863 Freq:60.01Hz Lamp Flux:4183.68x1 lm										
NAME: CT-DO1042PLC					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: EVERFINE					SUR.:1.17*0.26			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	13.0	14.5	13.3	14.7	15.0	13.6	15.1	13.9	15.3	15.6
3H	14.5	16.0	14.8	16.2	16.4	15.2	16.7	15.5	16.9	17.1
4H	15.1	16.5	15.4	16.7	17.0	15.9	17.2	16.2	17.5	17.8
6H	15.5	16.8	15.9	17.1	17.4	16.3	17.6	16.7	17.9	18.2
8H	15.7	16.9	16.0	17.2	17.5	16.5	17.7	16.8	18.0	18.3
12H	15.8	17.0	16.1	17.3	17.6	16.6	17.7	16.9	18.0	18.3
4H 2H	13.7	15.1	14.0	15.3	15.6	14.2	15.5	14.5	15.8	16.0
3H	15.4	16.6	15.8	16.9	17.2	16.0	17.2	16.3	17.5	17.8
4H	16.1	17.2	16.5	17.5	17.9	16.8	17.8	17.1	18.2	18.5
6H	16.7	17.6	17.1	18.0	18.4	17.3	18.3	17.7	18.7	19.0
8H	16.9	17.8	17.3	18.1	18.5	17.5	18.4	17.9	18.8	19.2
12H	17.0	17.8	17.4	18.2	18.6	17.7	18.5	18.1	18.9	19.3
8H 4H	16.4	17.3	16.9	17.7	18.1	17.0	17.9	17.4	18.3	18.7
6H	17.1	17.9	17.6	18.3	18.7	17.7	18.5	18.2	18.9	19.3
8H	17.4	18.1	17.9	18.5	19.0	18.0	18.7	18.5	19.1	19.5
12H	17.6	18.2	18.1	18.6	19.1	18.2	18.8	18.7	19.2	19.7
12H 4H	16.5	17.3	16.9	17.7	18.1	17.0	17.8	17.4	18.2	18.6
6H	17.2	17.9	17.7	18.3	18.8	17.8	18.4	18.2	18.9	19.3
8H	17.5	18.1	18.0	18.6	19.0	18.1	18.7	18.6	19.1	19.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				

CIE Pub.117, 4184 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 5.0)

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Paul
Test Date:2016-11-11

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.364
Humidity:65.0%
Test Distance:2.900m [K=0.8389]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.0V I:0.3510A P:41.55W PF:0.9863 Freq:60.01Hz Lamp Flux:4183.68x1 lm		
NAME: CT-DO1042PLC	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.17*0.26	Shielding Angle:

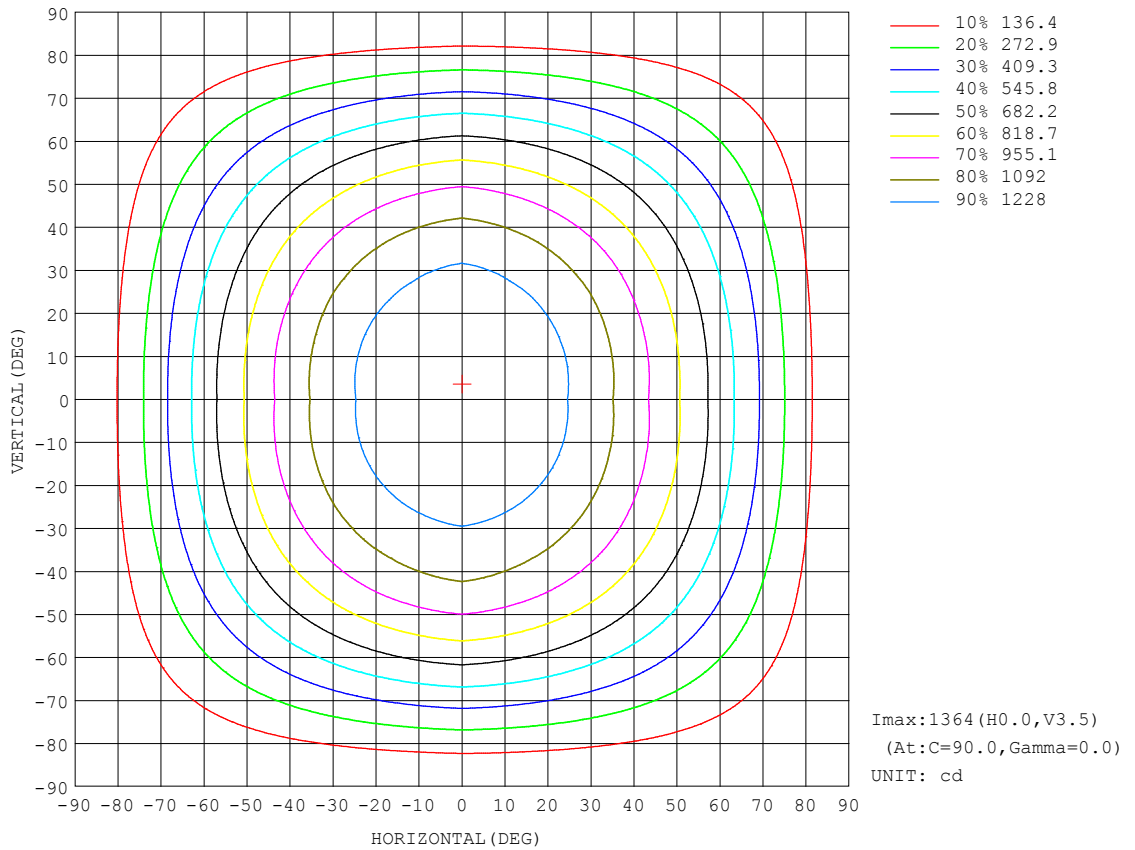
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	56	45	38	56	44	37	55	44	37	31
0.80	67	55	47	66	54	47	64	53	47	40
1.00	75	64	56	74	63	56	72	65	55	48
1.25	82	72	64	81	71	64	78	69	63	56
1.50	87	77	70	86	76	70	83	75	69	61
2.00	94	86	79	93	84	78	89	82	77	69
2.50	98	90	84	96	89	83	92	86	82	73
3.00	102	95	89	100	93	88	96	90	86	77
4.00	106	100	95	104	98	94	99	95	91	82
5.00	108	103	99	106	102	98	101	98	95	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNM = 1.25			

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Paul
 Test Date:2016-11-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.364
 Humidity:65.0%
 Test Distance:2.900m [K=0.8389]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.3510A P:41.55W PF:0.9863 Freq:60.01Hz Lamp Flux:4183.68x1 lm		
NAME: CT-DO1042PLC	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.17*0.26	Shielding Angle:

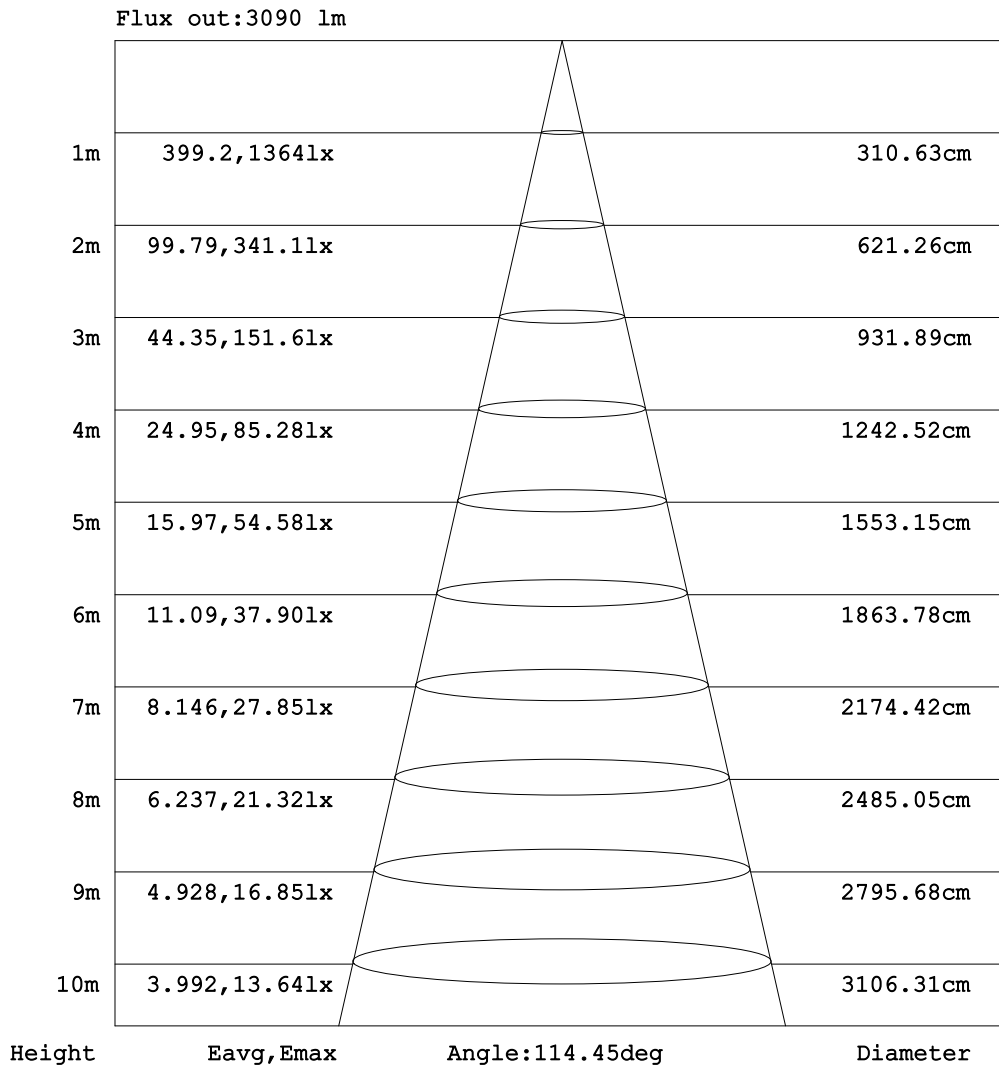


C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Paul
 Test Date:2016-11-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.364
 Humidity:65.0%
 Test Distance:2.900m [K=0.8389]
 Remarks:

AAI Figure

Test:U:120.0V I:0.3510A P:41.55W PF:0.9863 Freq:60.01Hz Lamp Flux:4183.68x1 lm		
NAME: CT-DO1042PLC	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.17*0.26	Shielding Angle:

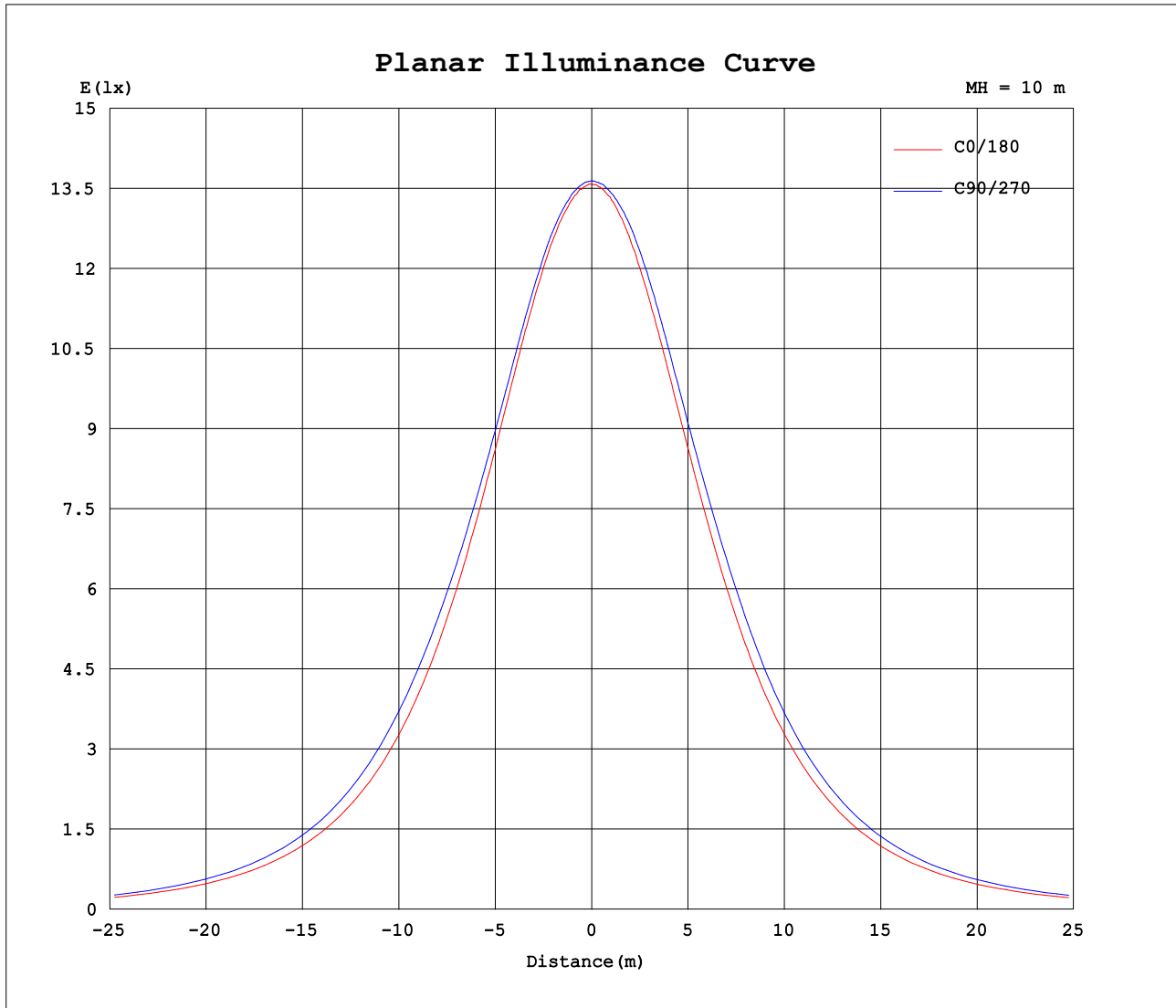


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Paul
Test Date:2016-11-11

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.364
Humidity:65.0%
Test Distance:2.900m [K=0.8389]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Paul
 Test Date: 2016-11-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.364
 Humidity: 65.0%
 Test Distance: 2.900m [K=0.8389]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.3510A P:41.55W PF:0.9863 Freq:60.01Hz Lamp Flux:4183.68x1 lm		
NAME: CT-DO1042PLC	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:1.17*0.26	Shielding Angle:

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	90	180	270															
0	1357	1364	1357	1364															
5	1353	1361	1352	1363															
10	1336	1351	1337	1359															
15	1308	1332	1310	1347															
20	1272	1304	1273	1322															
25	1223	1266	1224	1287															
30	1163	1224	1165	1245															
35	1093	1179	1097	1196															
40	1013	1123	1015	1127															
45	926	1050	929	1040															
50	831	955	832	942															
55	729	846	726	833															
60	621	727	613	713															
65	507	598	494	585															
70	390	462	371	450															
75	274	324	251	314															
80	166	193	140	186															
85	73.9	79.9	50.3	74.6															
90	8.30	6.73	0.38	0.15															
95	0.09	0.14	0.73	0.18															
100	0.09	0.10	0.45	0.23															
105	0.11	0.13	0.26	0.27															
110	0.19	0.16	0.29	0.27															
115	0.24	0.19	0.32	0.23															
120	0.29	0.22	0.25	0.21															
125	0.33	0.29	0.21	0.17															
130	0.37	0.32	0.22	0.14															
135	0.38	0.33	0.25	0.16															
140	0.37	0.33	0.28	0.20															
145	0.35	0.17	0.29	0.34															
150	0.34	0.20	0.42	0.39															
155	0.33	0.37	0.42	0.42															
160	0.34	0.36	0.43	0.44															
165	0.37	0.37	0.28	0.29															
170	0.23	0.33	0.43	0.44															
175	0.41	0.37	0.37	0.36															
180	0.36	0.41	0.37	0.36															

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Paul
 Test Date:2016-11-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.364
 Humidity:65.0%
 Test Distance:2.900m [K=0.8389]
 Remarks: