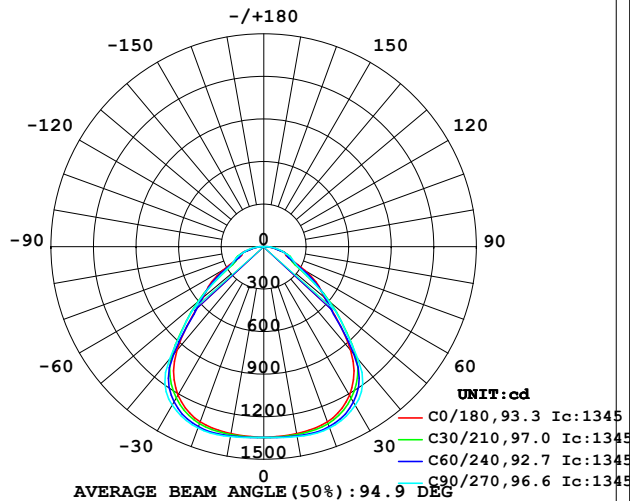


LUMINAIRE PHOTOMETRIC TEST REPORT

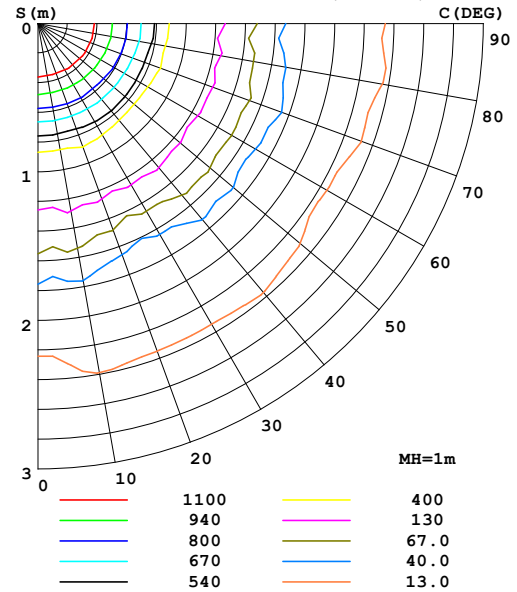
Test:U:35.000V I:0.7000A P:24.500W PF:1.0000 Freq:50.00Hz Lamp Flux:3178.08x1 lm		
NAME: LTY40X312CT19 700mA_4000K	TYPE: YALA ONE	WEIGHT:
SPEC.:	DIM.: 300X1200X12	SERIAL No.:1
MFR.: TECONEX	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 129.72 lm/W			
MODEL	LTY40X312CT19	I _{max} (cd)	1367	S/MH(C0/180)	1.30
NOMINAL POWER(W)	26	LOR(%)	100.0	S/MH(C90/270)	1.33
RATED VOLTAGE(V)	35	TOTAL FLUX(lm)	3178.1	η UP,DN(C0-180)	0.0,50.0
NOMINAL FLUX(lm)	3178.08	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.0
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	35	η down(%)	100.0	CIBSE SHR MAX	1.30

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



PLANAR ISOLUX DIAGRAM(UNIT:lx)



C Range: 0 - 90DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2021-06-26

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:10.270m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1338	1351	1360	1351	1338	1351	1360	1351	0- 10	128.7	128.7	4.05,4.05
20	1314	1335	1360	1335	1314	1335	1360	1335	10- 20	381.8	510.5	16.1,16.1
30	1209	1226	1291	1226	1209	1226	1291	1226	20- 30	599.2	1110	34.9,34.9
40	952.8	914.5	1034	914.5	952.8	914.5	1034	914.5	30- 40	707.0	1817	57.2,57.2
50	557.7	554.8	601.9	554.8	557.7	554.8	601.9	554.8	40- 50	579.5	2396	75.4,75.4
60	334.3	293.5	275.3	293.5	334.3	293.5	275.3	293.5	50- 60	377.9	2774	87.3,87.3
70	165.4	175.1	189.3	175.1	165.4	175.1	189.3	175.1	60- 70	225.1	2999	94.4,94.4
80	84.74	75.94	97.45	75.94	84.74	75.94	97.45	75.94	70- 80	135.8	3135	98.6,98.6
90	0	0	0	0	0	0	0	0	80- 90	42.96	3178	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 2188.1 lm

%lum = 68.9%

%lamp = 68.9%

Conical surface Flux(120deg): 2774.2 lm

%lum = 87.3%

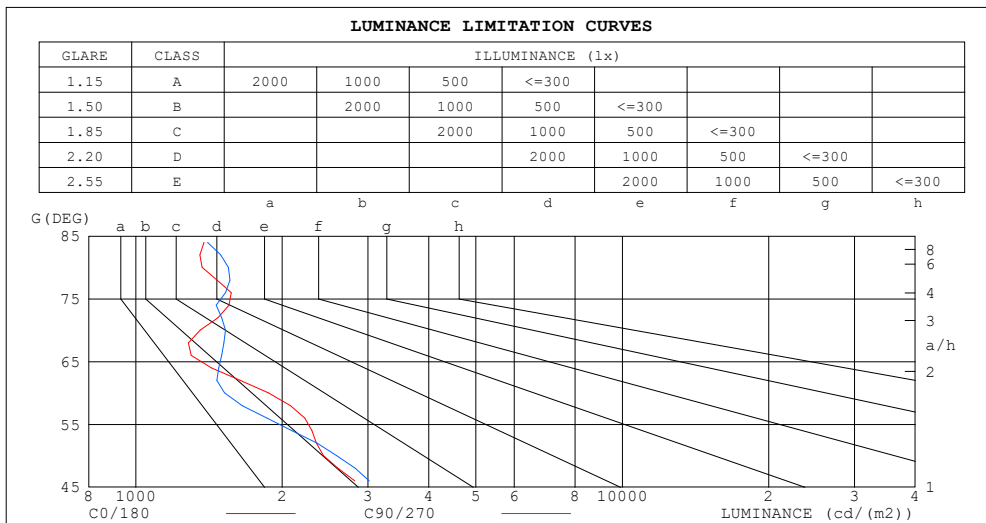
%lamp = 87.3%

C Range: 0 - 90DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2021-06-26

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:10.270m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:35.000V I:0.7000A P:24.500W PF:1.0000 Freq:50.00Hz Lamp Flux:3178.08x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1655	1685
80	1368	1551
75	1656	1559
70	1356	1530
65	1483	1536
60	1874	1521
55	2359	2143
50	2432	2587
45	3114	3272

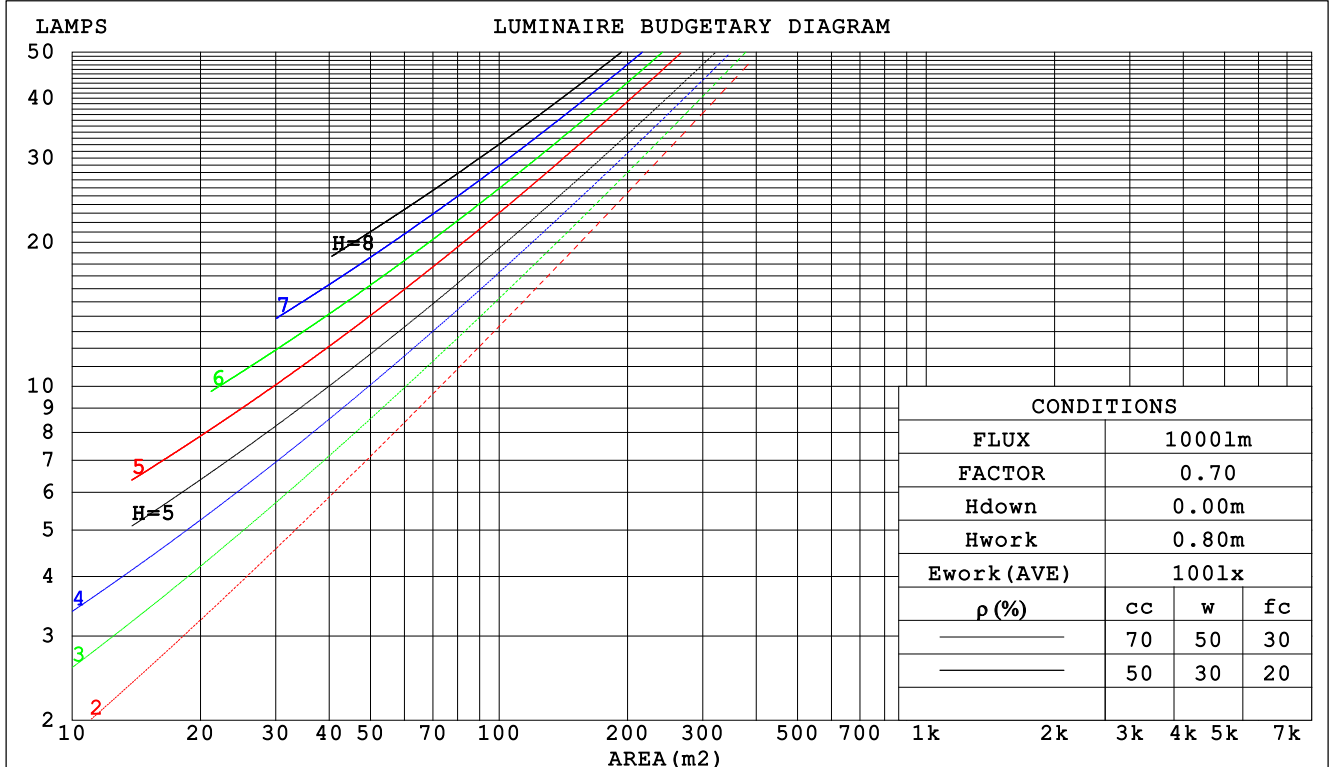
C Range: 0 - 90DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-06-26

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:10.270m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:35.000V I:0.7000A P:24.500W PF:1.0000 Freq:50.00Hz Lamp Flux:3178.08x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p _{fc}	20%			20%			20%			20%			20%			0
RCR	Coefficients of Utilization(CU)															
	RCR:Room Cavity Ratio															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.06	1.02	.99	1.04	1.00	.97	.90	.97	.94	.96	.93	.91	.92	.90	.89	.87
2.0	.94	.88	.83	.92	.87	.82	.89	.84	.80	.86	.82	.78	.83	.80	.77	.75
3.0	.84	.77	.71	.83	.76	.70	.80	.74	.69	.77	.72	.68	.75	.70	.67	.65
4.0	.76	.68	.62	.74	.67	.61	.72	.65	.60	.70	.64	.60	.67	.63	.59	.57
5.0	.68	.60	.54	.67	.59	.54	.65	.58	.53	.63	.57	.53	.61	.56	.52	.50
6.0	.62	.54	.48	.61	.53	.48	.59	.52	.47	.58	.52	.47	.56	.51	.46	.45
7.0	.57	.48	.43	.56	.48	.43	.54	.47	.42	.53	.47	.42	.52	.46	.42	.40
8.0	.52	.44	.38	.51	.44	.38	.50	.43	.38	.49	.43	.38	.48	.42	.38	.36
9.0	.48	.40	.35	.47	.40	.35	.46	.39	.35	.45	.39	.34	.44	.38	.34	.33
10.0	.44	.37	.32	.44	.37	.32	.43	.36	.32	.42	.36	.31	.41	.35	.31	.30



C Range: 0 - 90DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2021-06-26

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:10.270m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:35.000V I:0.7000A P:24.500W PF:1.0000 Freq:50.00Hz Lamp Flux:3178.08x1 lm					
NAME:		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.:1	
MFR.: EVERFINE		SUR.:		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	.270	.153	.049	.263	.150	.048	.250	.143	.046	.238	.137	.044	.226	.131	.042	
2.0	.256	.140	.043	.250	.138	.042	.238	.133	.041	.228	.128	.040	.218	.123	.039	
3.0	.240	.128	.038	.234	.125	.038	.224	.122	.037	.215	.118	.036	.207	.114	.035	
4.0	.224	.116	.034	.219	.115	.034	.210	.112	.033	.202	.109	.033	.194	.106	.032	
5.0	.209	.107	.031	.205	.105	.031	.197	.103	.030	.190	.100	.030	.183	.098	.029	
6.0	.196	.098	.028	.192	.097	.028	.185	.095	.028	.179	.093	.027	.173	.091	.027	
7.0	.184	.091	.026	.181	.090	.026	.174	.088	.025	.169	.086	.025	.163	.085	.025	
8.0	.173	.085	.024	.170	.084	.024	.165	.082	.023	.159	.081	.023	.154	.079	.023	
9.0	.163	.079	.022	.161	.078	.022	.156	.077	.022	.151	.076	.022	.146	.074	.021	
10.0	.154	.074	.021	.152	.073	.020	.147	.072	.020	.143	.071	.020	.139	.070	.020	

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.178	.156	.138	.152	.134	.118	.104	.092	.082	.060	.053	.048	.019	.017	.015	
2.0	.167	.132	.102	.143	.114	.088	.098	.079	.062	.057	.046	.036	.018	.015	.012	
3.0	.159	.114	.079	.136	.098	.068	.093	.068	.048	.054	.040	.028	.017	.013	.009	
4.0	.151	.100	.062	.129	.087	.054	.089	.060	.038	.051	.035	.022	.017	.012	.007	
5.0	.143	.090	.050	.123	.078	.044	.085	.054	.031	.049	.032	.018	.016	.010	.006	
6.0	.136	.081	.042	.117	.070	.036	.081	.049	.026	.047	.029	.015	.015	.009	.005	
7.0	.130	.074	.035	.112	.064	.031	.077	.045	.022	.045	.027	.013	.014	.009	.004	
8.0	.124	.068	.030	.107	.059	.026	.074	.042	.019	.043	.025	.011	.014	.008	.004	
9.0	.118	.063	.026	.102	.055	.023	.070	.039	.016	.041	.023	.010	.013	.007	.003	
10.0	.113	.059	.023	.097	.051	.020	.067	.036	.015	.039	.021	.009	.013	.007	.003	

C Range: 0 - 90DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-06-26

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:10.270m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:35.000V I:0.7000A P:24.500W PF:1.0000 Freq:50.00Hz Lamp Flux:3178.08x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:1			
MFR.: EVERFINE					SUR.:			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	2H	14.6	16.0	14.9	16.2	16.4	14.5	15.9	14.8	16.1	16.3
	3H	15.6	16.8	15.9	17.1	17.3	15.4	16.7	15.7	16.9	17.1
	4H	16.0	17.2	16.3	17.5	17.7	15.9	17.1	16.2	17.3	17.5
	6H	16.4	17.5	16.7	17.8	18.0	16.3	17.5	16.7	17.7	18.0
	8H	16.5	17.6	16.8	17.9	18.2	16.5	17.6	16.8	17.9	18.1
	12H	16.6	17.7	17.0	17.9	18.2	16.6	17.6	16.9	17.9	18.2
4H	2H	14.9	16.1	15.2	16.4	16.6	14.8	16.0	15.1	16.3	16.5
	3H	16.1	17.2	16.5	17.5	17.8	15.9	17.0	16.3	17.3	17.6
	4H	16.7	17.6	17.0	17.9	18.3	16.5	17.5	16.9	17.8	18.1
	6H	17.2	18.0	17.6	18.4	18.7	17.2	18.0	17.5	18.3	18.7
	8H	17.4	18.2	17.8	18.6	18.9	17.4	18.2	17.8	18.5	18.9
	12H	17.6	18.3	18.0	18.7	19.1	17.6	18.3	18.0	18.7	19.1
8H	4H	16.9	17.6	17.3	18.0	18.4	16.7	17.5	17.1	17.8	18.2
	6H	17.6	18.2	18.0	18.6	19.0	17.5	18.1	17.9	18.5	19.0
	8H	17.9	18.5	18.3	18.9	19.3	17.8	18.4	18.3	18.8	19.3
	12H	18.2	18.7	18.6	19.1	19.6	18.1	18.6	18.6	19.0	19.5
12H	4H	16.9	17.6	17.3	18.0	18.4	16.7	17.4	17.1	17.8	18.2
	6H	17.6	18.2	18.1	18.6	19.1	17.6	18.1	18.0	18.6	19.0
	8H	18.0	18.5	18.5	18.9	19.4	17.9	18.4	18.4	18.9	19.4
Variations with the observer position at spacings:											
S = 1.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.5					
1.5H	+ 0.3 / - 0.4					+ 0.3 / - 0.4					
2.0H	+ 0.8 / - 1.0					+ 1.0 / - 0.7					

CIE Pub.117, 3178 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 4.0$)

C Range: 0 - 90DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-06-26

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:10.270m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:35.000V I:0.7000A P:24.500W PF:1.0000 Freq:50.00Hz Lamp Flux:3178.08x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

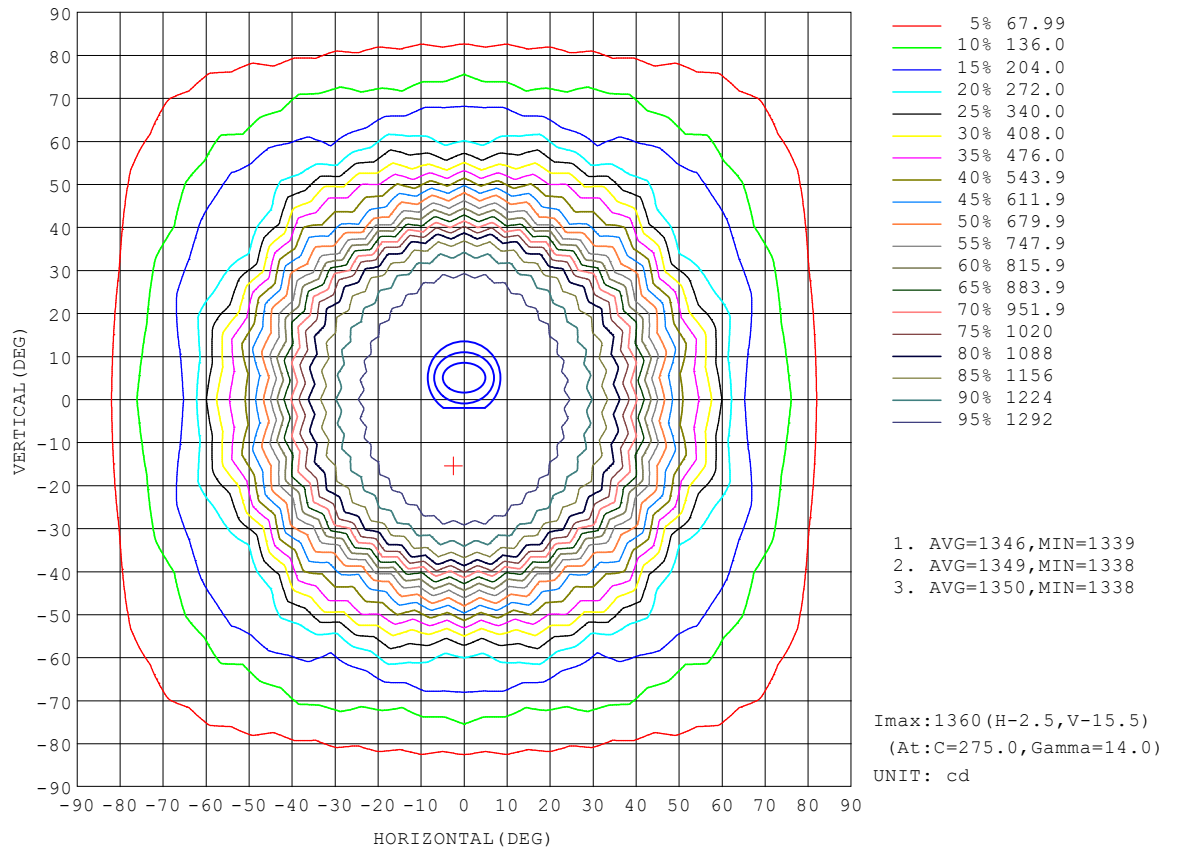
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	65	55	48	64	54	48	63	54	48	42
0.80	75	65	58	74	64	58	72	63	58	52
1.00	83	73	67	81	72	66	79	73	66	60
1.25	89	80	74	88	79	74	85	78	73	66
1.50	93	85	79	92	84	79	89	83	78	71
2.00	99	92	87	97	91	86	94	89	84	77
2.50	102	96	91	100	94	90	97	92	88	80
3.00	105	99	95	103	98	94	99	95	91	84
4.00	108	104	100	106	102	98	102	99	96	87
5.00	110	106	103	108	104	101	104	101	98	89
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 90DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-06-26

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:10.270m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:35.000V I:0.7000A P:24.500W PF:1.0000 Freq:50.00Hz Lamp Flux:3178.08x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

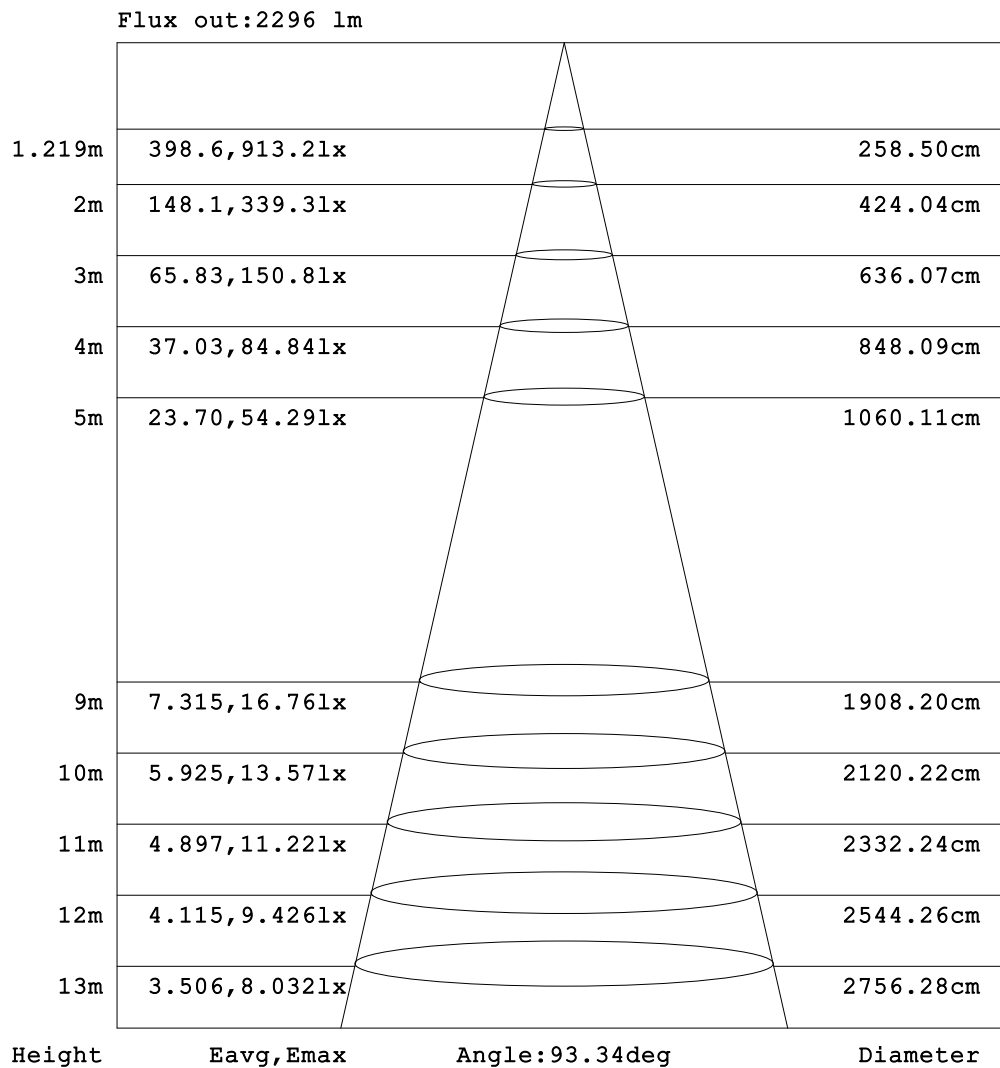


C Range: 0 - 90DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2021-06-26

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.295
Humidity: 65.0%
Test Distance: 10.270m [K=1.0000]
Remarks:

AAI Figure

Test:U:35.000V I:0.7000A P:24.500W PF:1.0000 Freq:50.00Hz Lamp Flux:3178.08x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



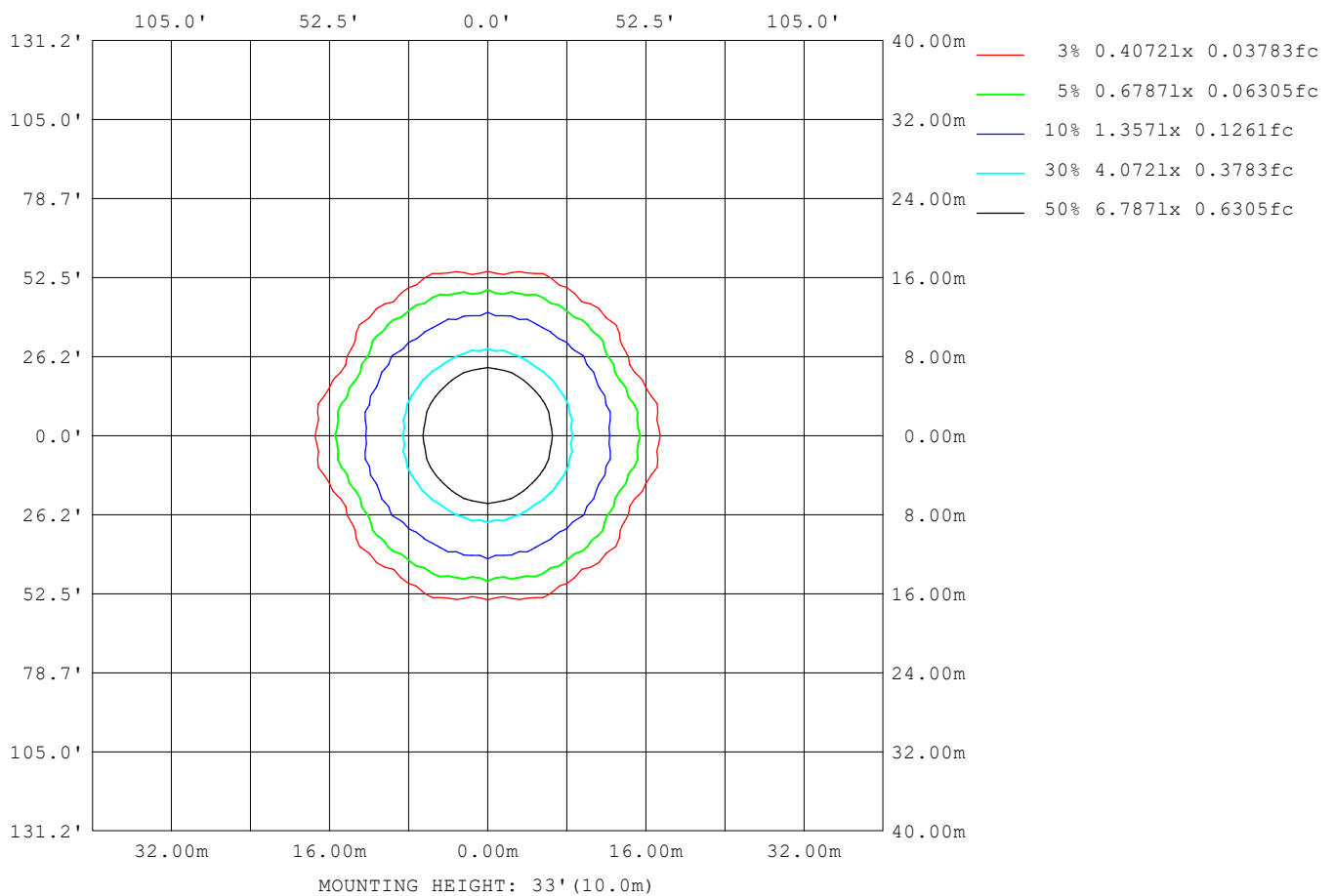
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 90DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-06-26

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:10.270m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:35.000V I:0.7000A P:24.500W PF:1.0000 Freq:50.00Hz Lamp Flux:3178.08x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 90DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2021-06-26

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:10.270m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:35.000V I:0.7000A P:24.500W PF:1.0000 Freq:50.00Hz Lamp Flux:3178.08x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

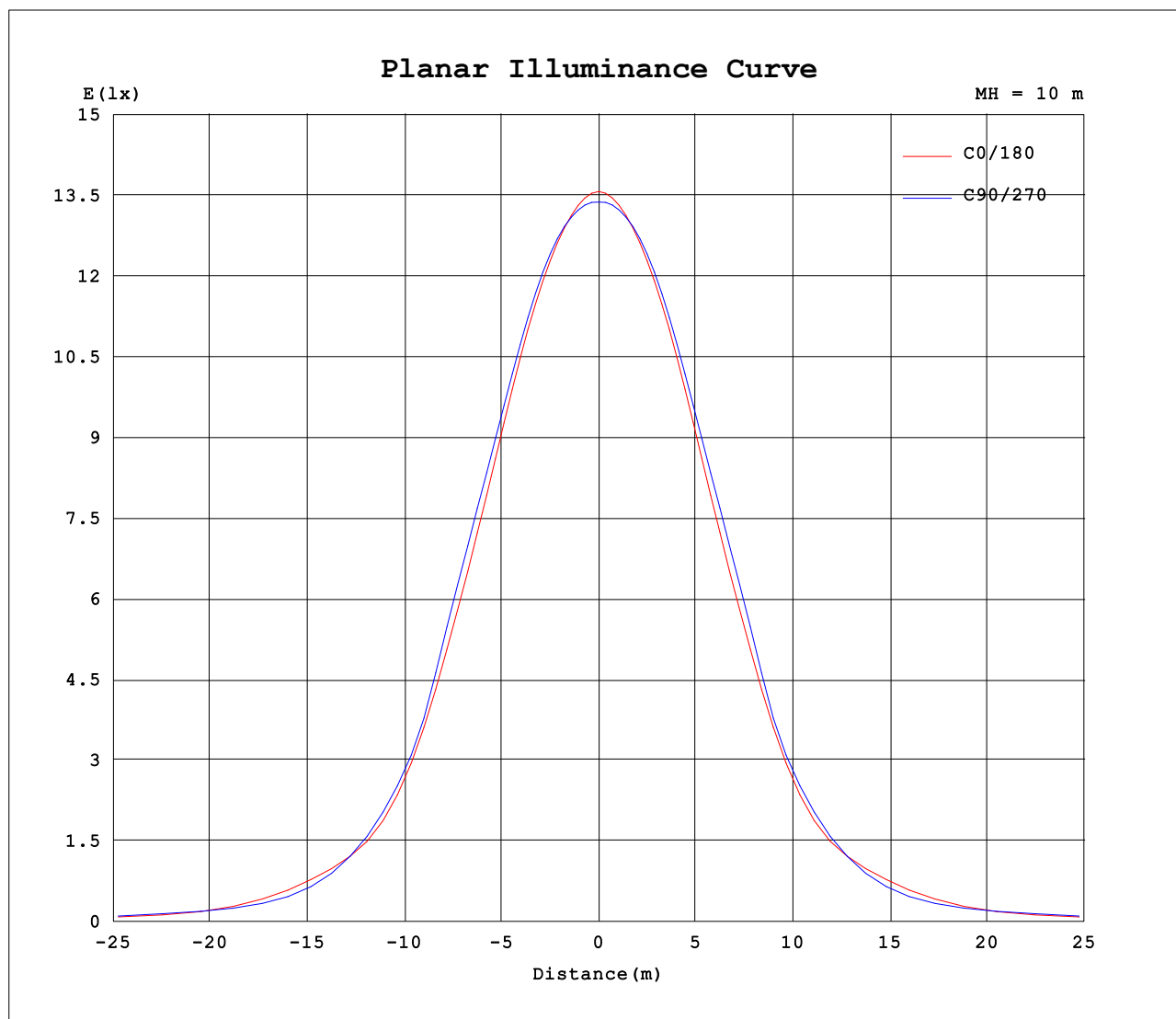
AvgL	cd/m2
L_0~180 (65) av	1340
L_0~180 (75) av	1558
L_0~180 (85) av	1373
L_90~270 (65) av	1499
L_90~270 (75) av	1498
L_90~270 (85) av	1324
L_45 (65) av	1500
L_45 (75) av	1263
L_45 (85) av	1107

Standard: GB/T 29293-2012

C Range: 0 - 90DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2021-06-26

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:10.270m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 90DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2021-06-26

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
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