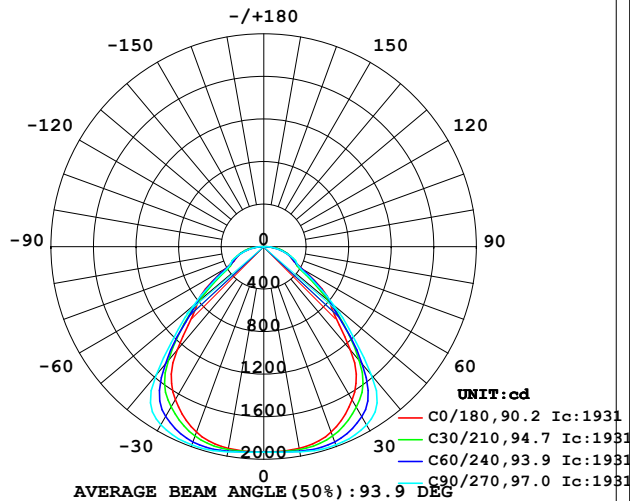


LUMINAIRE PHOTOMETRIC TEST REPORT

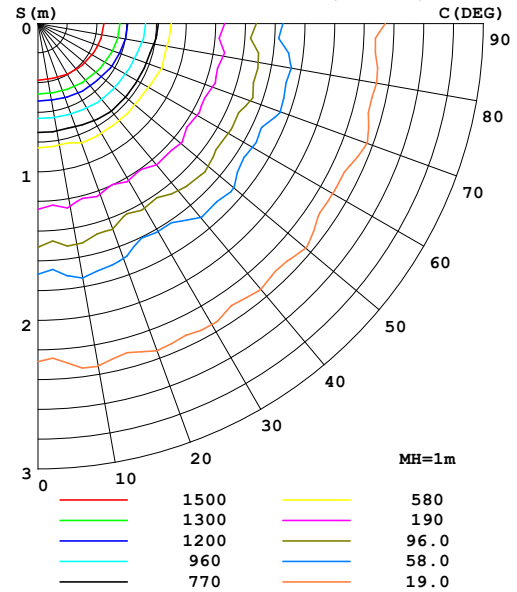
Test:U:35.000V I:1.0500A P:36.750W PF:1.0000 Freq:0Hz Lamp Flux:4553.32x1 lm		
NAME: LTY400062CT19 1050mA_3000K	TYPE: YALA ONE	WEIGHT:
SPEC.:	DIM.: 620x620x12	SERIAL No.:1
MFR.: TECONEX	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 123.90 lm/W			
MODEL	LTY400062CT19	I _{max} (cd)	1984	S/MH(C0/180)	1.26
NOMINAL POWER(W)	40	LOR(%)	103.8	S/MH(C90/270)	1.35
RATED VOLTAGE(V)	35	TOTAL FLUX(lm)	4553.4	η UP,DN(C0-180)	0.0,51.9
NOMINAL FLUX(lm)	4553.32	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,51.9
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	35	η down(%)	103.8	CIBSE SHR MAX	1.35

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	1925	1946	1958	1946	1925	1946	1958	1946	0- 10	185.1	185.1	4.06, 4.21
20	1855	1915	1984	1915	1855	1915	1984	1915	10- 20	549.2	734.3	16.1, 16.7
30	1663	1766	1936	1766	1663	1766	1936	1766	20- 30	858.3	1593	34.9, 36.2
40	1267	1342	1575	1342	1267	1342	1575	1342	30- 40	1013	2606	57.1, 59.3
50	809.1	800.3	867.2	800.3	809.1	800.3	867.2	800.3	40- 50	828.8	3435	75.3, 78.1
60	415.1	434.0	385.7	434.0	415.1	434.0	385.7	434.0	50- 60	527.3	3962	86.8, 90.1
70	261.6	239.0	273.5	239.0	261.6	239.0	273.5	239.0	60- 70	328.5	4290	94, 97.6
80	147.5	130.6	132.9	130.6	147.5	130.6	132.9	130.6	70- 80	203.6	4494	98.5, 102
90	0	0	0	0	0	0	0	0	80- 90	69.34	4563	100, 104
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): 3137.9 lm

%lum = 68.8%

%lamp = 71.4%

Conical surface Flux(120deg): 3962 lm

%lum = 86.8%

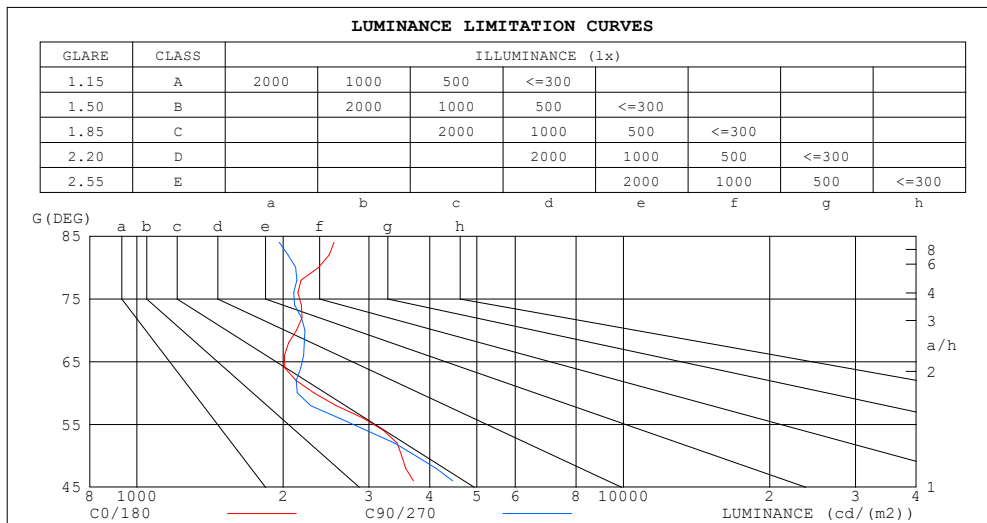
%lamp = 90.1%

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:1.0500A P:36.750W PF:1.0000 Freq:0Hz Lamp Flux:4553.32x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	3049	2355
80	2365	2120
75	2320	2247
70	2129	2215
65	2090	2254
60	2311	2137
55	3297	3046
50	3504	3737
45	4033	4918

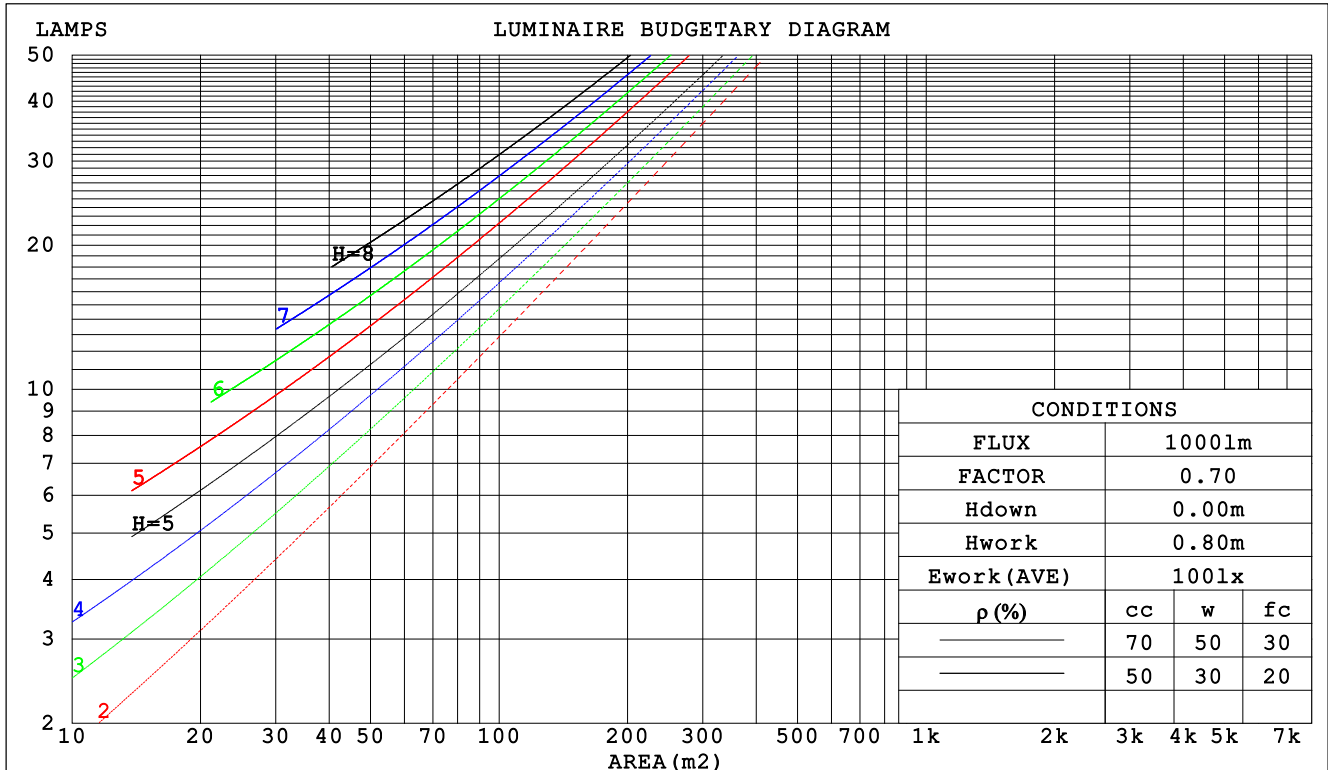
C Range: 0 - 90DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-06-26

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:1.0500A P:36.750W PF:1.0000 Freq:0Hz Lamp Flux:4553.32x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.24	1.24	1.24	1.21	1.21	1.21	1.15	1.15	1.15	1.10	1.10	1.10	1.06	1.06	1.06	1.04
1.0	1.10	1.06	1.02	1.08	1.04	1.01	1.03	1.00	.98	.99	.97	.95	.95	.94	.92	.90
2.0	.98	.91	.86	.96	.90	.85	.92	.87	.83	.89	.85	.81	.86	.82	.79	.77
3.0	.87	.80	.73	.86	.79	.73	.83	.77	.72	.80	.75	.70	.77	.73	.69	.67
4.0	.78	.70	.64	.77	.69	.63	.74	.68	.62	.72	.66	.62	.70	.65	.61	.59
5.0	.71	.62	.56	.70	.62	.56	.67	.60	.55	.66	.59	.54	.64	.58	.54	.52
6.0	.64	.56	.50	.63	.55	.49	.62	.54	.49	.60	.53	.49	.58	.53	.48	.46
7.0	.59	.50	.44	.58	.50	.44	.56	.49	.44	.55	.48	.44	.54	.48	.43	.41
8.0	.54	.46	.40	.53	.45	.40	.52	.45	.40	.51	.44	.39	.49	.44	.39	.37
9.0	.50	.42	.36	.49	.41	.36	.48	.41	.36	.47	.40	.36	.46	.40	.36	.34
10.0	.46	.38	.33	.45	.38	.33	.44	.38	.33	.43	.37	.33	.43	.37	.33	.31



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:1.0500A P:36.750W PF:1.0000 Freq:0Hz Lamp Flux:4553.32x1 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	.283	.161	.051	.275	.157	.050	.262	.150	.048	.249	.144	.046	.238	.138	.044		
2.0	.267	.146	.045	.261	.144	.044	.249	.139	.043	.238	.134	.042	.228	.129	.041		
3.0	.250	.133	.040	.244	.131	.039	.234	.127	.039	.224	.123	.038	.215	.119	.037		
4.0	.233	.121	.036	.228	.119	.035	.219	.116	.035	.210	.113	.034	.202	.110	.034		
5.0	.217	.111	.032	.213	.109	.032	.205	.107	.031	.198	.104	.031	.190	.102	.031		
6.0	.204	.102	.029	.200	.101	.029	.193	.099	.029	.186	.097	.028	.179	.094	.028		
7.0	.191	.094	.027	.188	.093	.027	.181	.092	.026	.175	.090	.026	.169	.088	.026		
8.0	.180	.088	.025	.177	.087	.025	.171	.085	.024	.165	.084	.024	.160	.082	.024		
9.0	.169	.082	.023	.167	.081	.023	.162	.080	.023	.157	.079	.022	.152	.077	.022		
10.0	.160	.077	.021	.158	.076	.021	.153	.075	.021	.149	.074	.021	.145	.073	.021		

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	.198	.198	.198	.169	.169	.169	.115	.115	.115	.066	.066	.066	.021	.021	.021	
1.0	.184	.162	.143	.158	.139	.123	.108	.096	.085	.062	.055	.049	.020	.018	.016	
2.0	.174	.137	.106	.149	.118	.092	.102	.082	.064	.059	.047	.037	.019	.015	.012	
3.0	.165	.118	.081	.141	.102	.071	.097	.071	.050	.056	.041	.029	.018	.013	.010	
4.0	.156	.104	.064	.134	.090	.056	.092	.063	.039	.053	.037	.023	.017	.012	.008	
5.0	.149	.093	.052	.128	.081	.045	.088	.056	.032	.051	.033	.019	.016	.011	.006	
6.0	.141	.084	.043	.122	.073	.038	.084	.051	.027	.049	.030	.016	.016	.010	.005	
7.0	.135	.077	.037	.116	.067	.032	.080	.047	.023	.047	.028	.013	.015	.009	.004	
8.0	.128	.071	.031	.111	.062	.027	.077	.043	.019	.045	.025	.012	.014	.008	.004	
9.0	.123	.066	.027	.106	.057	.024	.073	.040	.017	.043	.024	.010	.014	.008	.003	
10.0	.117	.061	.024	.101	.053	.021	.070	.038	.015	.041	.022	.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:1.0500A P:36.750W PF:1.0000 Freq:0Hz Lamp Flux:4553.32x1 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	15.6	17.0	15.9	17.2	17.4	16.0	17.4	16.3	17.6	17.8
	3H	16.6	17.8	16.8	18.1	18.3	16.8	18.1	17.1	18.3	18.5
	4H	17.1	18.3	17.4	18.5	18.8	17.2	18.4	17.5	18.7	18.9
	6H	17.6	18.7	17.9	19.0	19.3	17.7	18.8	18.0	19.1	19.3
	8H	17.8	18.9	18.2	19.2	19.5	17.8	18.9	18.1	19.2	19.5
	12H	18.0	19.1	18.3	19.3	19.6	17.9	18.9	18.2	19.2	19.5
4H	2H	16.0	17.2	16.3	17.4	17.7	16.3	17.5	16.6	17.7	17.9
	3H	17.2	18.2	17.5	18.5	18.8	17.3	18.4	17.7	18.7	19.0
	4H	17.8	18.8	18.2	19.1	19.4	17.9	18.8	18.3	19.2	19.5
	6H	18.6	19.4	19.0	19.8	20.1	18.5	19.3	18.9	19.7	20.0
	8H	18.9	19.7	19.3	20.0	20.4	18.7	19.5	19.1	19.8	20.2
	12H	19.1	19.9	19.6	20.2	20.6	18.8	19.6	19.3	19.9	20.3
8H	4H	18.1	18.9	18.5	19.3	19.6	18.1	18.9	18.5	19.3	19.7
	6H	19.1	19.7	19.5	20.1	20.5	18.9	19.5	19.3	19.9	20.4
	8H	19.5	20.1	20.0	20.5	20.9	19.2	19.8	19.7	20.2	20.6
	12H	19.9	20.4	20.3	20.8	21.3	19.4	19.9	19.9	20.4	20.8
12H	4H	18.1	18.8	18.5	19.2	19.6	18.2	18.9	18.6	19.3	19.7
	6H	19.1	19.7	19.6	20.1	20.6	19.0	19.6	19.4	20.0	20.4
	8H	19.6	20.1	20.1	20.6	21.0	19.3	19.8	19.8	20.3	20.8
Variations with the observer position at spacings:											
S = 1.0H	+ 0.4 / - 0.4					+ 0.4 / - 0.6					
1.5H	+ 0.2 / - 0.4					+ 0.4 / - 0.3					
2.0H	+ 0.7 / - 0.6					+ 1.1 / - 0.8					

CIE Pub.117, 4553 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 5.1)

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:1.0500A P:36.750W PF:1.0000 Freq:0Hz Lamp Flux:4553.32x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

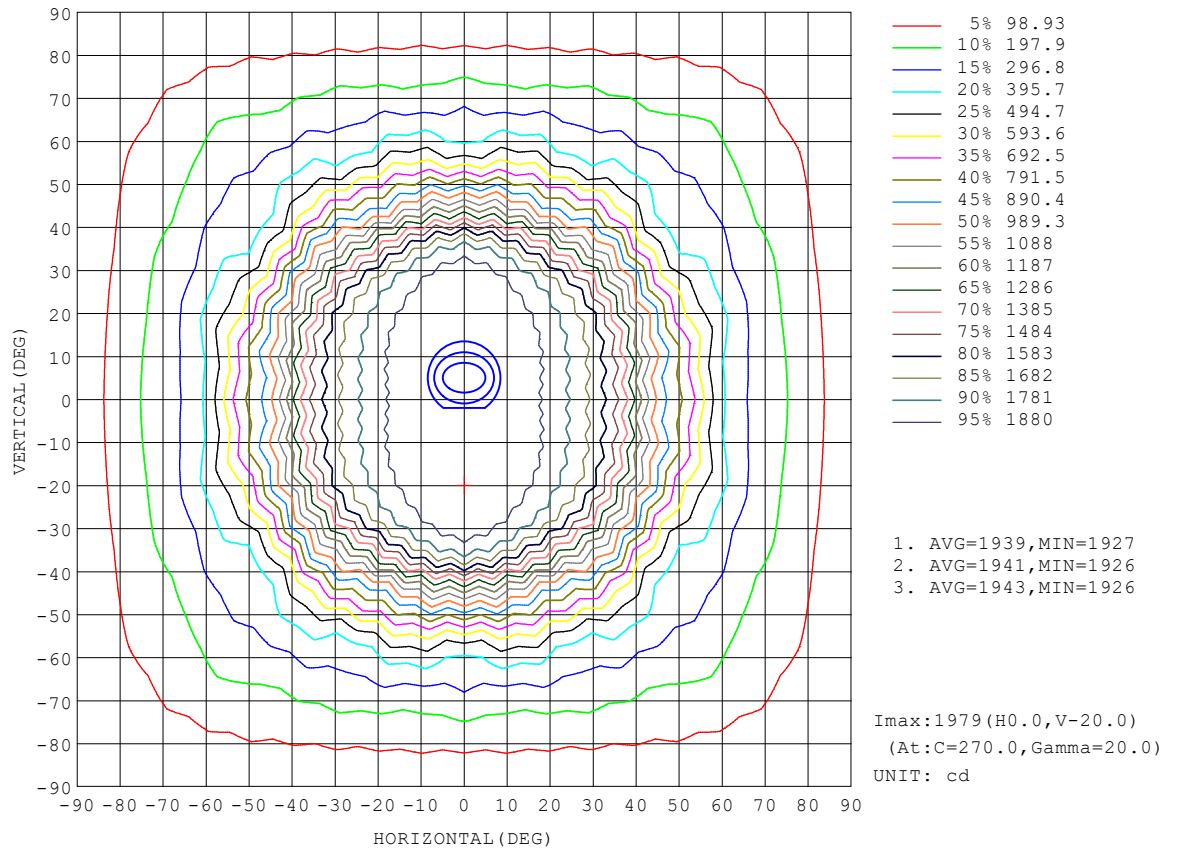
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	67	57	50	67	56	50	66	56	50	44
0.80	77	67	60	77	67	60	75	66	60	53
1.00	86	76	69	84	75	69	82	76	68	62
1.25	92	83	77	91	82	76	88	81	75	69
1.50	97	88	82	95	87	81	92	86	80	73
2.00	103	95	90	101	94	89	98	92	87	80
2.50	106	99	94	104	98	93	100	95	91	83
3.00	109	103	98	107	101	97	103	98	95	87
4.00	112	107	103	110	106	102	106	102	99	90
5.00	115	110	107	112	108	105	108	104	102	93
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:1.0500A P:36.750W PF:1.0000 Freq:0Hz Lamp Flux:4553.32x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

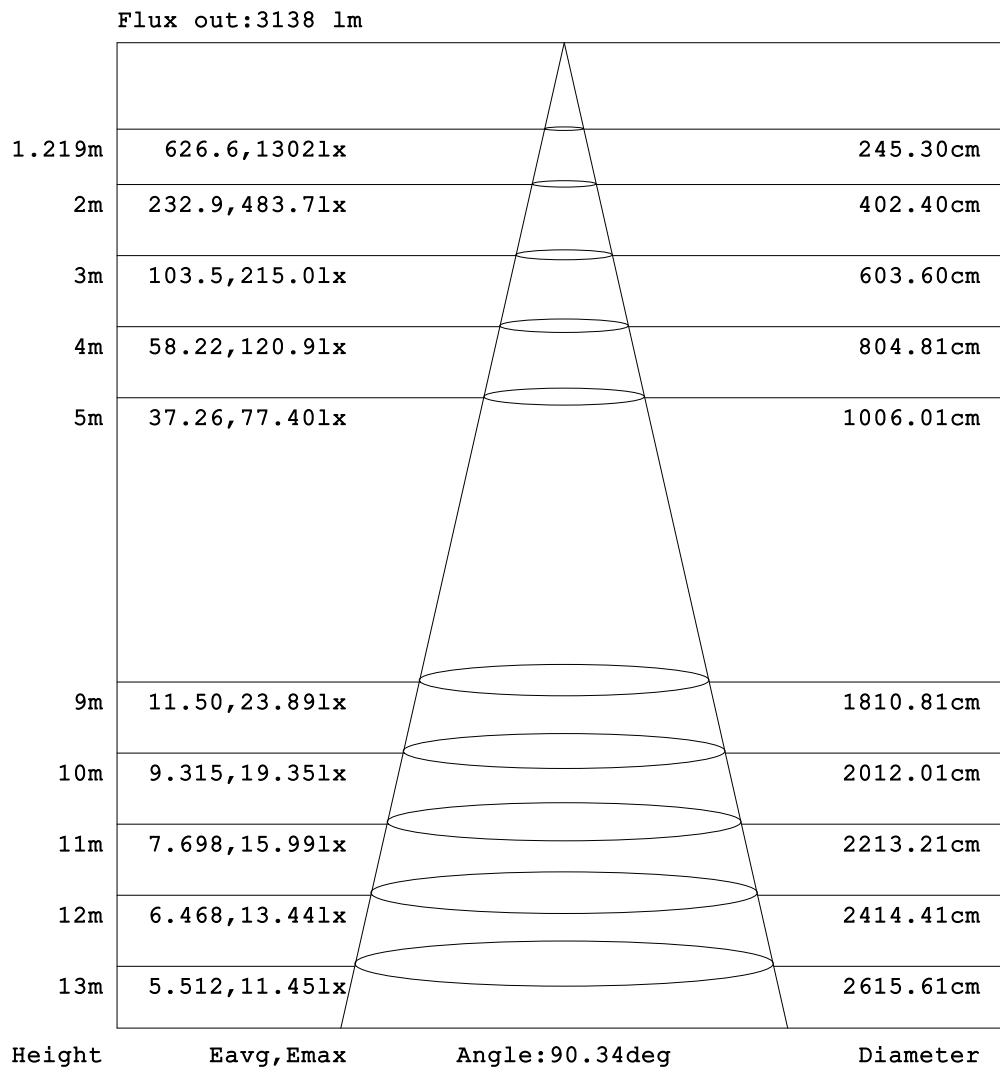


C Range: 0 - 90DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-06-26

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:1.0500A P:36.750W PF:1.0000 Freq:0Hz Lamp Flux:4553.32x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



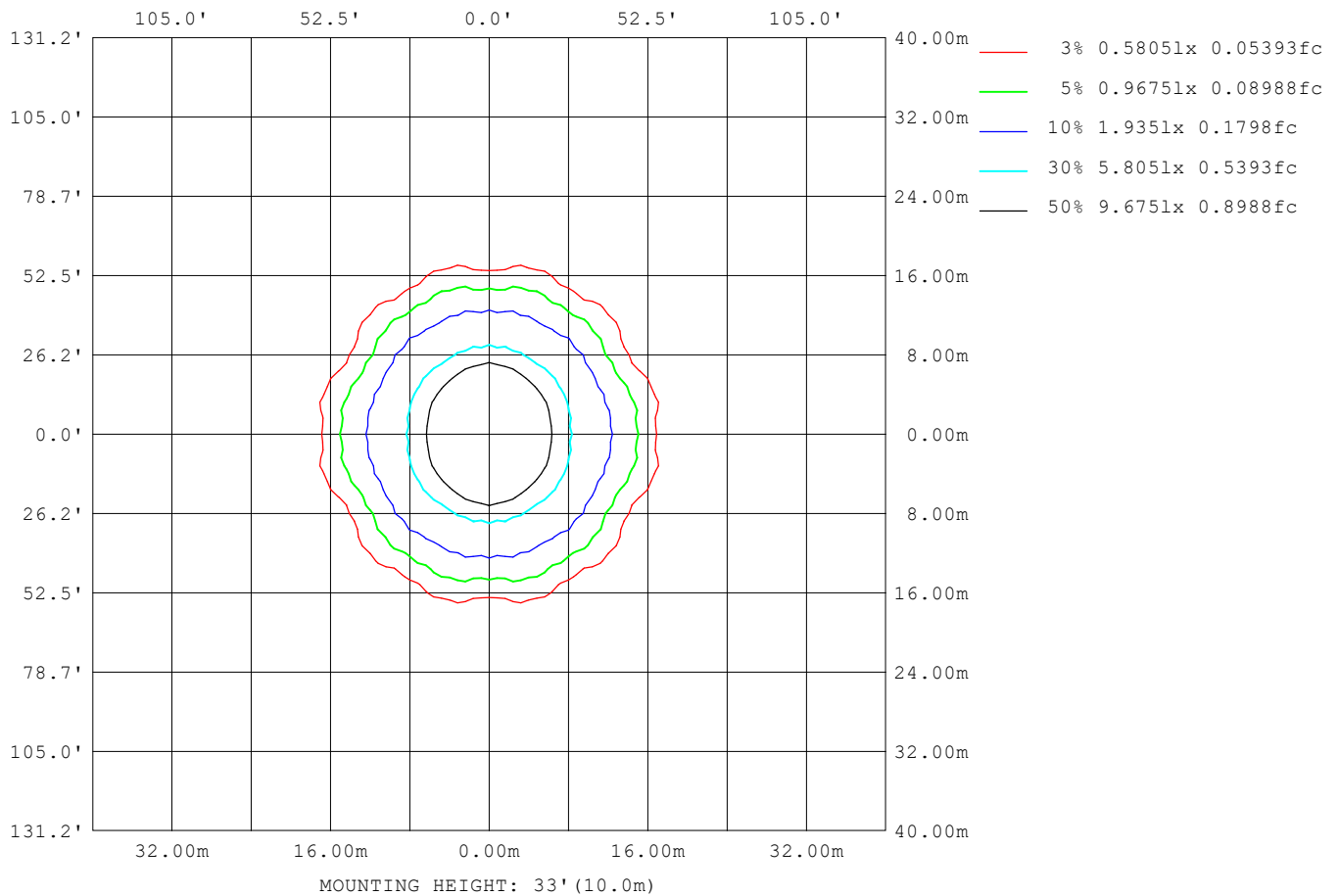
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:1.0500A P:36.750W PF:1.0000 Freq:0Hz Lamp Flux:4553.32x1 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:1.0500A P:36.750W PF:1.0000 Freq:0Hz Lamp Flux:4553.32x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

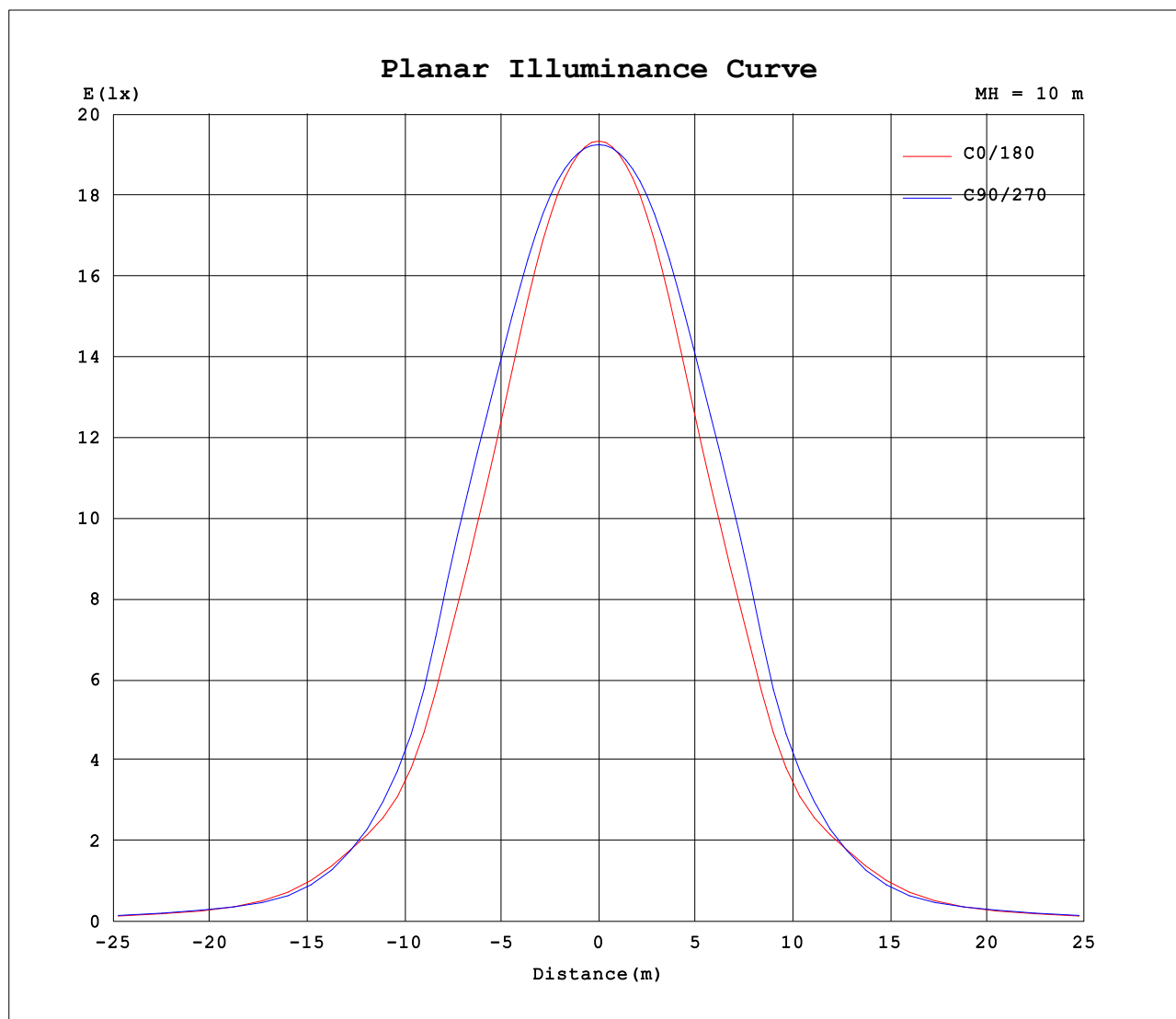
AvgL	cd/m2
L_0~180 (65) av	2000
L_0~180 (75) av	2155
L_0~180 (85) av	2557
L_90~270 (65) av	2196
L_90~270 (75) av	2106
L_90~270 (85) av	1874
L_45 (65) av	2191
L_45 (75) av	1987
L_45 (85) av	1802

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
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.295
Humidity: 65.0%
Test Distance: 10.270m [K=1.0000]
Remarks:

```

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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:10.270m [K=1.0000]
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