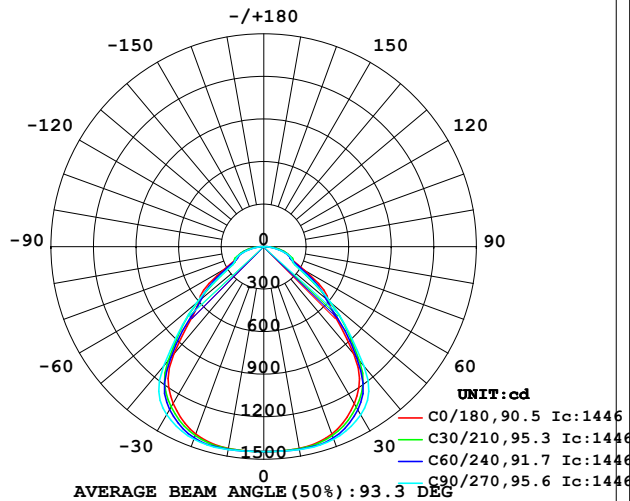


LUMINAIRE PHOTOMETRIC TEST REPORT

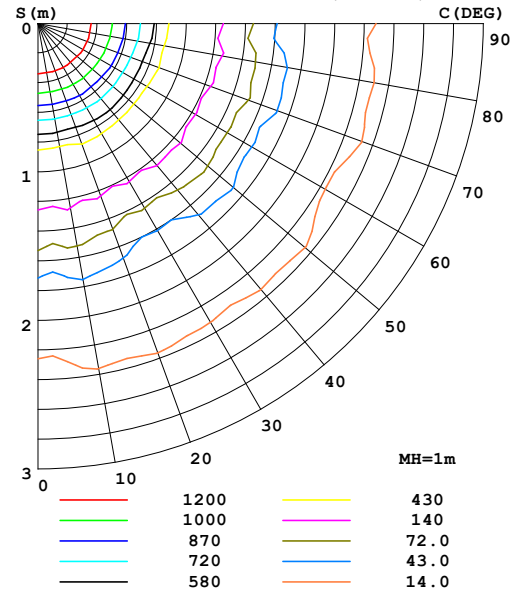
Test:U:35.000V I:0.7000A P:24.500W PF:0.9630 Freq:50.00Hz Lamp Flux:3344.34x1 lm		
NAME: LTY18X030CT19 700mA_4000K	TYPE: YALA ONE	WEIGHT:
SPEC.:	DIM.: 300x600x12	SERIAL No.:1
MFR.: TECONEX	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 136.50 lm/W			
MODEL	LTY18X030CT19	I _{max} (cd)	1455	S/MH (C0/180)	1.27
NOMINAL POWER (W)	26	LOR (%)	100.0	S/MH (C90/270)	1.33
RATED VOLTAGE (V)	35	TOTAL FLUX (lm)	3344.3	η UP, DN (C0-180)	0.0, 50.0
NOMINAL FLUX (lm)	3344.34	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	1444	1449	1452	1449	1444	1449	1452	1449	0- 10	138.1	138.1	4.13,4.13
20	1406	1419	1445	1419	1406	1419	1445	1419	10- 20	408.2	546.4	16.3,16.3
30	1277	1294	1367	1294	1277	1294	1367	1294	20- 30	633.3	1180	35.3,35.3
40	987.1	977.1	1099	977.1	987.1	977.1	1099	977.1	30- 40	740.6	1920	57.4,57.4
50	594.8	592.5	622.1	592.5	594.8	592.5	622.1	592.5	40- 50	603.7	2524	75.5,75.5
60	325.8	317.3	255.2	317.3	325.8	317.3	255.2	317.3	50- 60	389.2	2913	87.1,87.1
70	190.5	176.0	193.1	176.0	190.5	176.0	193.1	176.0	60- 70	236.9	3150	94.2,94.2
80	107.4	92.56	92.40	92.56	107.4	92.56	92.40	92.56	70- 80	146.9	3297	98.6,98.6
90	0	0	0	0	0	0	0	0	80- 90	47.49	3344	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): 2307.1 lm

%lum = 69.0%

%lamp = 69.0%

Conical surface Flux(120deg): 2913.1 lm

%lum = 87.1%

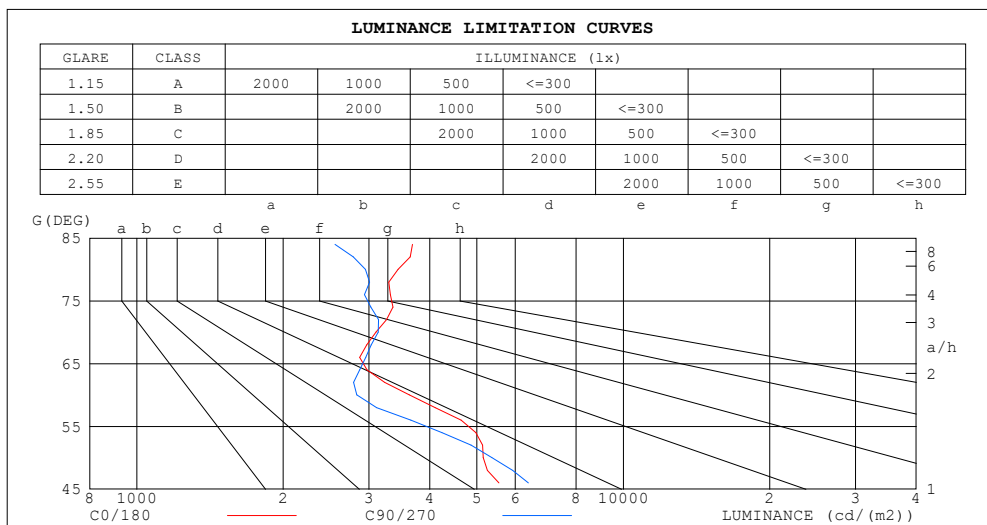
%lamp = 87.1%

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:0.7000A P:24.500W PF:0.9630 Freq:50.00Hz Lamp Flux:3344.34x1 lm		
NAME: LTY18X030CT19_700mA_4000K	TYPE:Edge-lit	WEIGHT:
SPEC.:	DIM.: 300*600*12	SERIAL No.:1
MFR.: TECONEX	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4423	3067
80	3445	2952
75	3580	3227
70	3101	3133
65	3082	2977
60	3629	2832
55	5098	4345
50	5153	5369
45	6158	6962

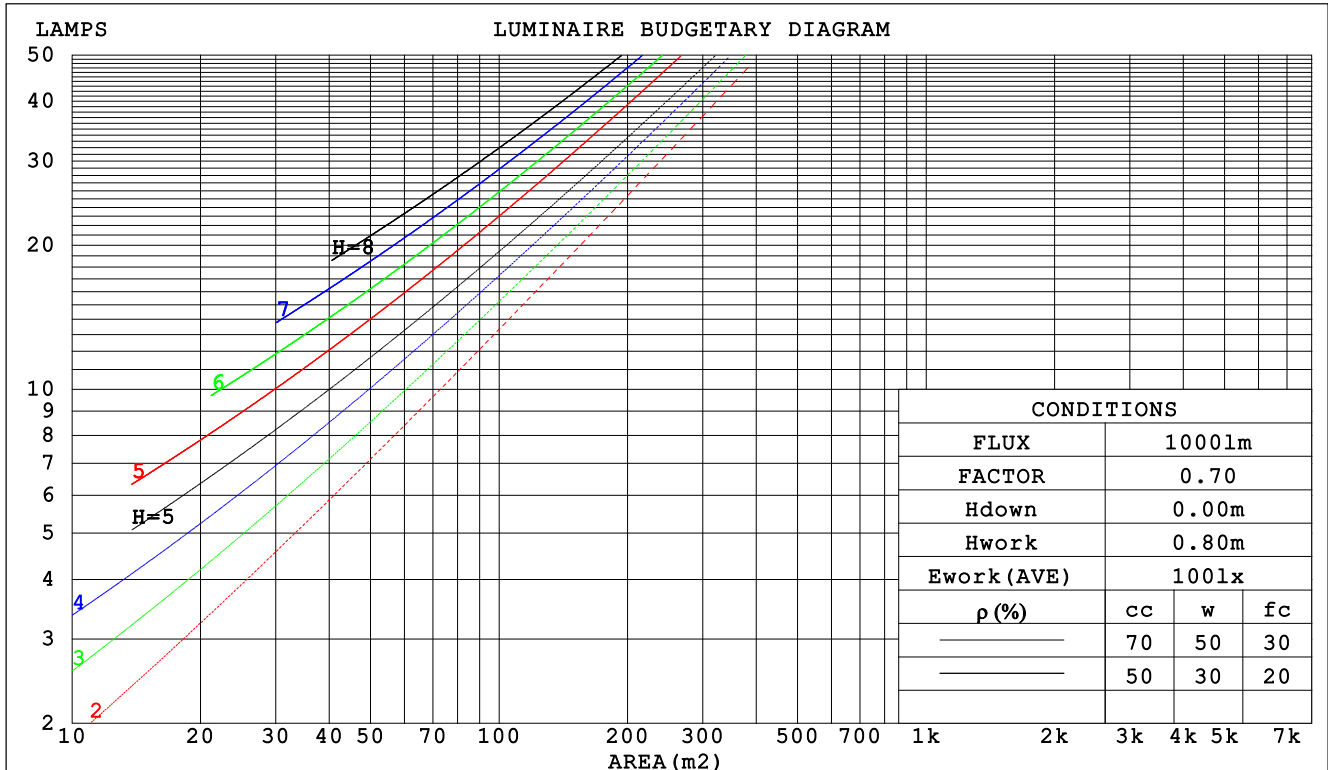
C Range: 0 - 90DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2021-06-26

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:0.9630 Freq:50.00Hz Lamp Flux:3344.34x1 lm		
NAME: LTY18X030CT19_700mA_4000K	TYPE:Edge-lit	WEIGHT:
SPEC.:	DIM.: 300*600*12	SERIAL No.:1
MFR.: TECONEX	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	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	.99	.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	.68	.63	.59	.57
5.0	.68	.60	.54	.67	.60	.54	.65	.58	.53	.63	.57	.53	.62	.56	.52	.50
6.0	.62	.54	.48	.61	.53	.48	.59	.53	.47	.58	.52	.47	.56	.51	.47	.45
7.0	.57	.49	.43	.56	.48	.43	.54	.48	.42	.53	.47	.42	.52	.46	.42	.40
8.0	.52	.44	.39	.51	.44	.39	.50	.43	.38	.49	.43	.38	.48	.42	.38	.36
9.0	.48	.40	.35	.47	.40	.35	.46	.40	.35	.45	.39	.35	.44	.39	.34	.33
10.0	.44	.37	.32	.44	.37	.32	.43	.36	.32	.42	.36	.32	.41	.36	.32	.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:0.9630 Freq:50.00Hz Lamp Flux:3344.34x1 lm		
NAME: LTY18X030CT19_700mA_4000K	TYPE:Edge-lit	WEIGHT:
SPEC.:	DIM.: 300*600*12	SERIAL No.:1
MFR.: TECONEX	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	.154	.049	.263	.150	.048	.250	.144	.046	.238	.137	.044	.227	.132	.042		
2.0	.256	.140	.043	.250	.138	.042	.239	.133	.041	.228	.128	.040	.218	.124	.039		
3.0	.240	.127	.038	.234	.125	.038	.224	.122	.037	.215	.118	.036	.206	.114	.035		
4.0	.224	.116	.034	.219	.115	.034	.210	.111	.033	.202	.108	.033	.194	.106	.032		
5.0	.209	.106	.031	.205	.105	.031	.197	.103	.030	.190	.100	.030	.183	.098	.029		
6.0	.195	.098	.028	.192	.097	.028	.185	.095	.028	.178	.093	.027	.172	.091	.027		
7.0	.183	.091	.026	.180	.090	.026	.174	.088	.025	.168	.086	.025	.163	.085	.025		
8.0	.173	.084	.024	.170	.084	.024	.164	.082	.023	.159	.081	.023	.154	.079	.023		
9.0	.163	.079	.022	.160	.078	.022	.155	.077	.022	.151	.075	.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	.137	.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	.106	.059	.026	.074	.042	.019	.043	.025	.011	.014	.008	.004	
9.0	.118	.063	.027	.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:0.9630 Freq:50.00Hz Lamp Flux:3344.34x1 lm										
NAME: LTY18X030CT19_700mA_4000K					TYPE:Edge-lit			WEIGHT:		
SPEC.:					DIM.: 300*600*12			SERIAL No.:1		
MFR.: TECONEX					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	17.1	18.5	17.4	18.7	18.9	17.1	18.5	17.4	18.7	18.9
3H	18.1	19.3	18.4	19.6	19.8	17.9	19.2	18.2	19.4	19.6
4H	18.6	19.8	18.9	20.0	20.3	18.3	19.5	18.6	19.7	20.0
6H	19.1	20.2	19.4	20.5	20.7	18.7	19.8	19.0	20.1	20.4
8H	19.3	20.4	19.6	20.6	20.9	18.9	19.9	19.2	20.2	20.5
12H	19.4	20.5	19.8	20.8	21.1	18.9	20.0	19.3	20.2	20.5
4H 2H	17.4	18.6	17.7	18.9	19.1	17.4	18.6	17.7	18.8	19.1
3H	18.6	19.7	19.0	20.0	20.3	18.5	19.5	18.8	19.8	20.1
4H	19.3	20.2	19.7	20.6	20.9	19.0	20.0	19.4	20.3	20.6
6H	20.0	20.8	20.4	21.2	21.5	19.6	20.4	20.0	20.7	21.1
8H	20.3	21.1	20.7	21.4	21.8	19.8	20.5	20.2	20.9	21.3
12H	20.5	21.2	21.0	21.6	22.0	19.9	20.6	20.3	21.0	21.4
8H 4H	19.5	20.3	19.9	20.7	21.1	19.3	20.0	19.7	20.4	20.8
6H	20.4	21.1	20.9	21.5	21.9	20.0	20.6	20.4	21.0	21.4
8H	20.9	21.4	21.3	21.9	22.3	20.3	20.8	20.7	21.3	21.7
12H	21.2	21.7	21.7	22.1	22.6	20.4	20.9	20.9	21.4	21.9
12H 4H	19.5	20.3	20.0	20.6	21.0	19.3	20.0	19.7	20.4	20.8
6H	20.5	21.1	21.0	21.5	22.0	20.1	20.6	20.5	21.1	21.5
8H	21.0	21.5	21.5	21.9	22.4	20.4	20.9	20.9	21.3	21.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.4					+ 0.4 / - 0.6				
1.5H	+ 0.2 / - 0.4					+ 0.3 / - 0.2				
2.0H	+ 0.7 / - 0.8					+ 1.1 / - 1.0				

CIE Pub.117, 3344 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 4.2$)

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:0.9630 Freq:50.00Hz Lamp Flux:3344.34x1 lm		
NAME: LTY18X030CT19_700mA_4000K	TYPE:Edge-lit	WEIGHT:
SPEC.:	DIM.: 300*600*12	SERIAL No.:1
MFR.: TECONEX	SUR.:	Shielding Angle:

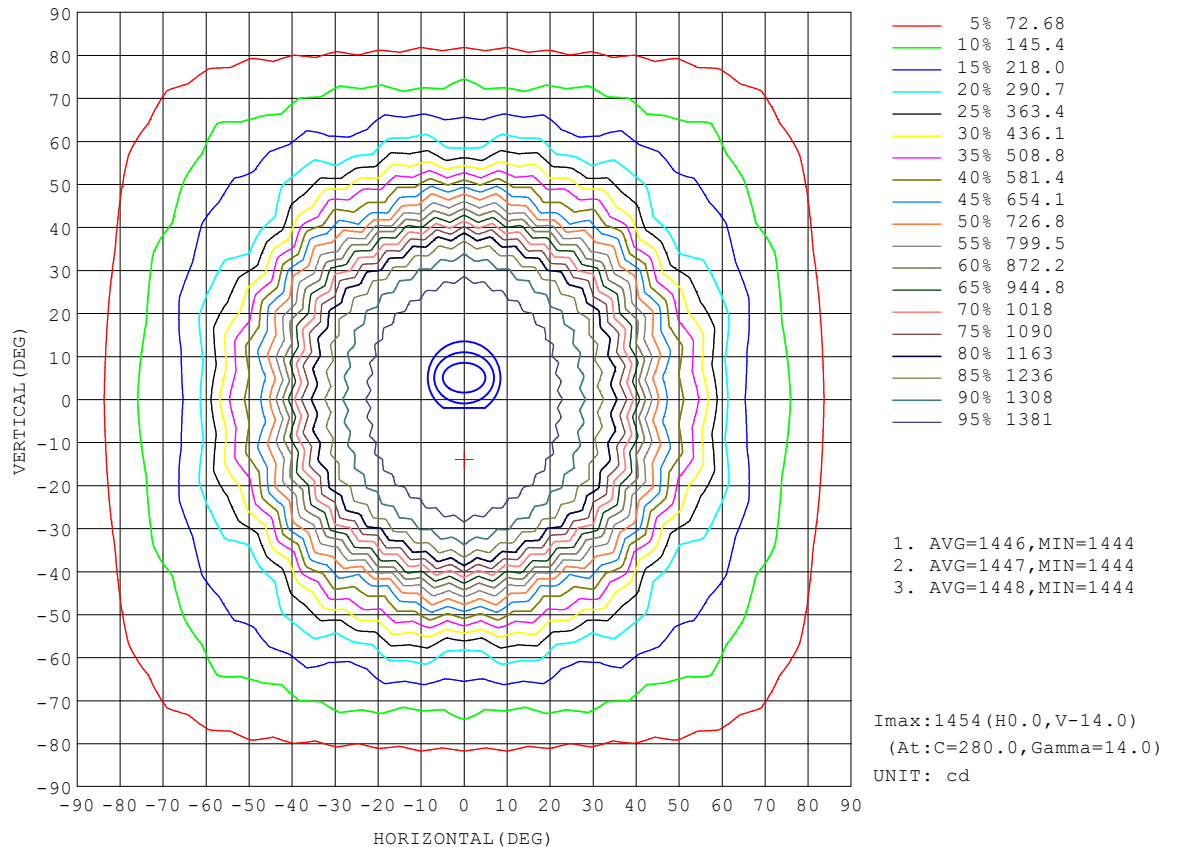
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	65	55	49	64	55	48	63	54	48	43
0.80	75	65	58	74	64	58	72	64	58	52
1.00	83	73	67	82	73	67	79	74	66	60
1.25	89	80	74	88	79	74	85	78	73	67
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:0.9630 Freq:50.00Hz Lamp Flux:3344.34x1 lm		
NAME: LTY18X030CT19_700mA_4000K	TYPE:Edge-lit	WEIGHT:
SPEC.:	DIM.: 300*600*12	SERIAL No.:1
MFR.: TECONEX	SUR.:	Shielding Angle:

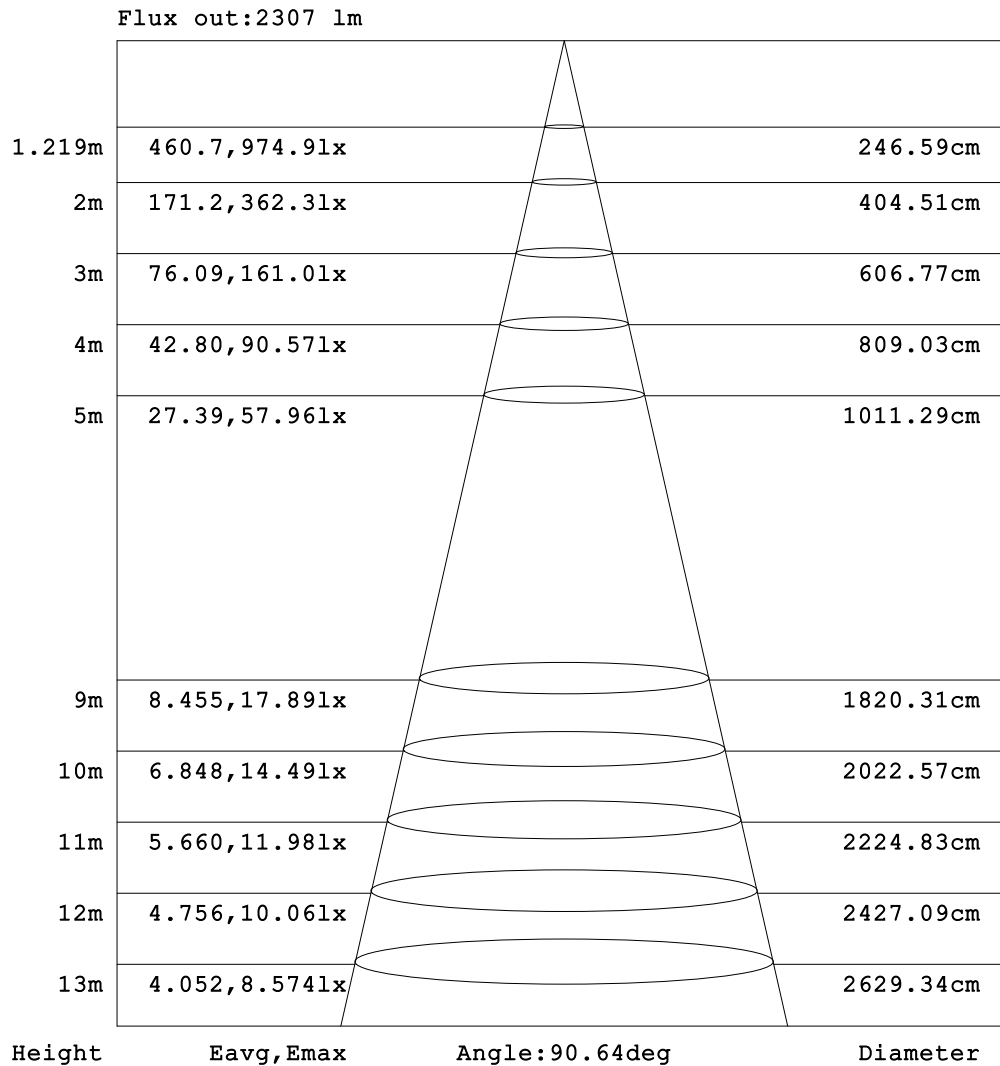


C Range: 0 - 90DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-06-26

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:0.9630 Freq:50.00Hz Lamp Flux:3344.34x1 lm		
NAME: LTY18X030CT19_700mA_4000K	TYPE:Edge-lit	WEIGHT:
SPEC.:	DIM.: 300*600*12	SERIAL No.:1
MFR.: TECONEX	SUR.:	Shielding Angle:



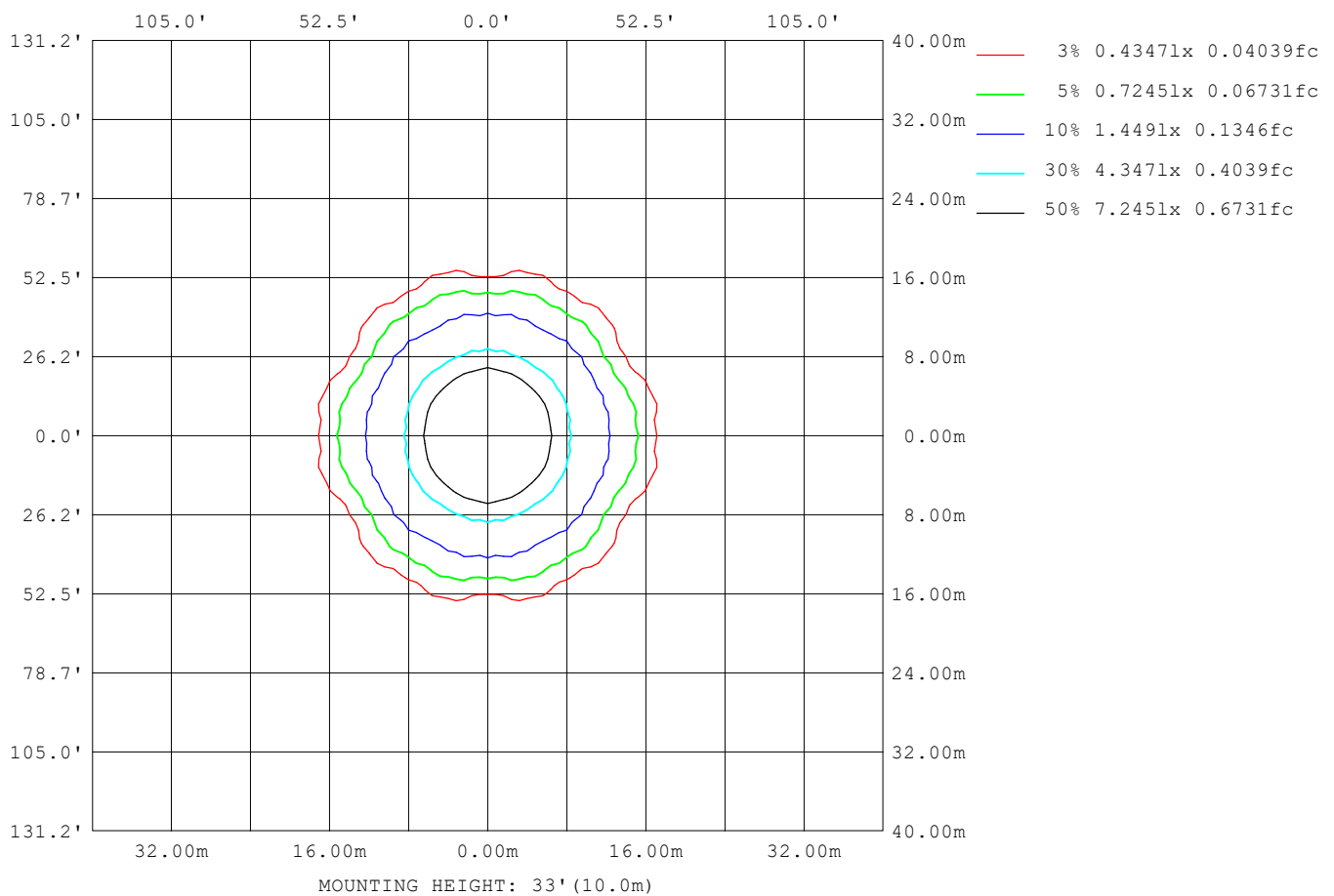
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.9630 Freq:50.00Hz Lamp Flux:3344.34x1 lm		
NAME: LTY18X030CT19_700mA_4000K	TYPE:Edge-lit	WEIGHT:
SPEC.:	DIM.: 300*600*12	SERIAL No.:1
MFR.: TECONEX	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:0.9630 Freq:50.00Hz Lamp Flux:3344.34x1 lm		
NAME: LTY18X030CT19_700mA_4000K	TYPE:Edge-lit	WEIGHT:
SPEC.:	DIM.: 300*600*12	SERIAL No.:1
MFR.: TECONEX	SUR.:	Shielding Angle:

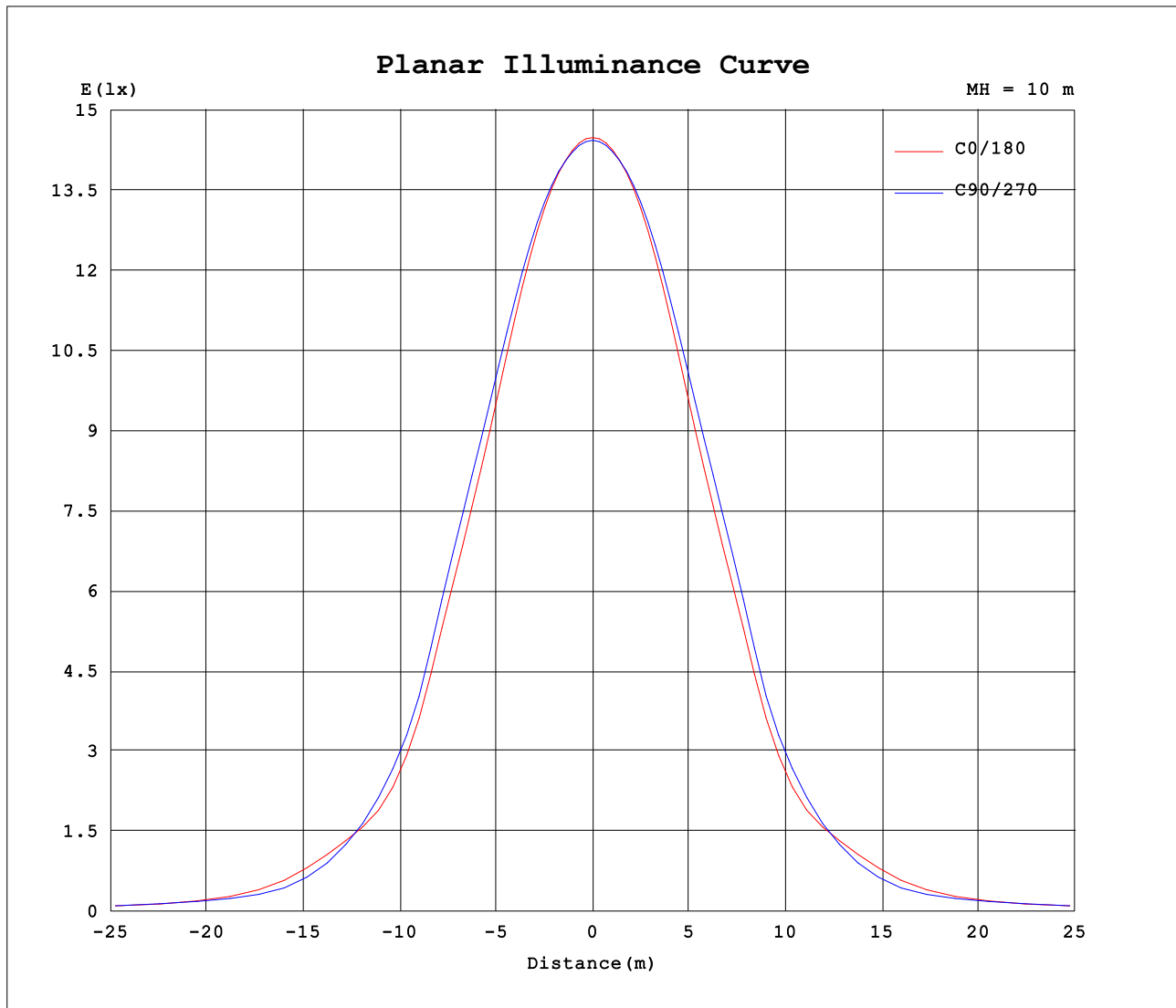
AvgL	cd/m2
L_0~180 (65) av	2892
L_0~180 (75) av	3342
L_0~180 (85) av	3688
L_90~270 (65) av	2916
L_90~270 (75) av	2977
L_90~270 (85) av	2335
L_45 (65) av	3281
L_45 (75) av	2737
L_45 (85) av	2453

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:

```

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.295
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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]
Remarks:

```

```

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:

```