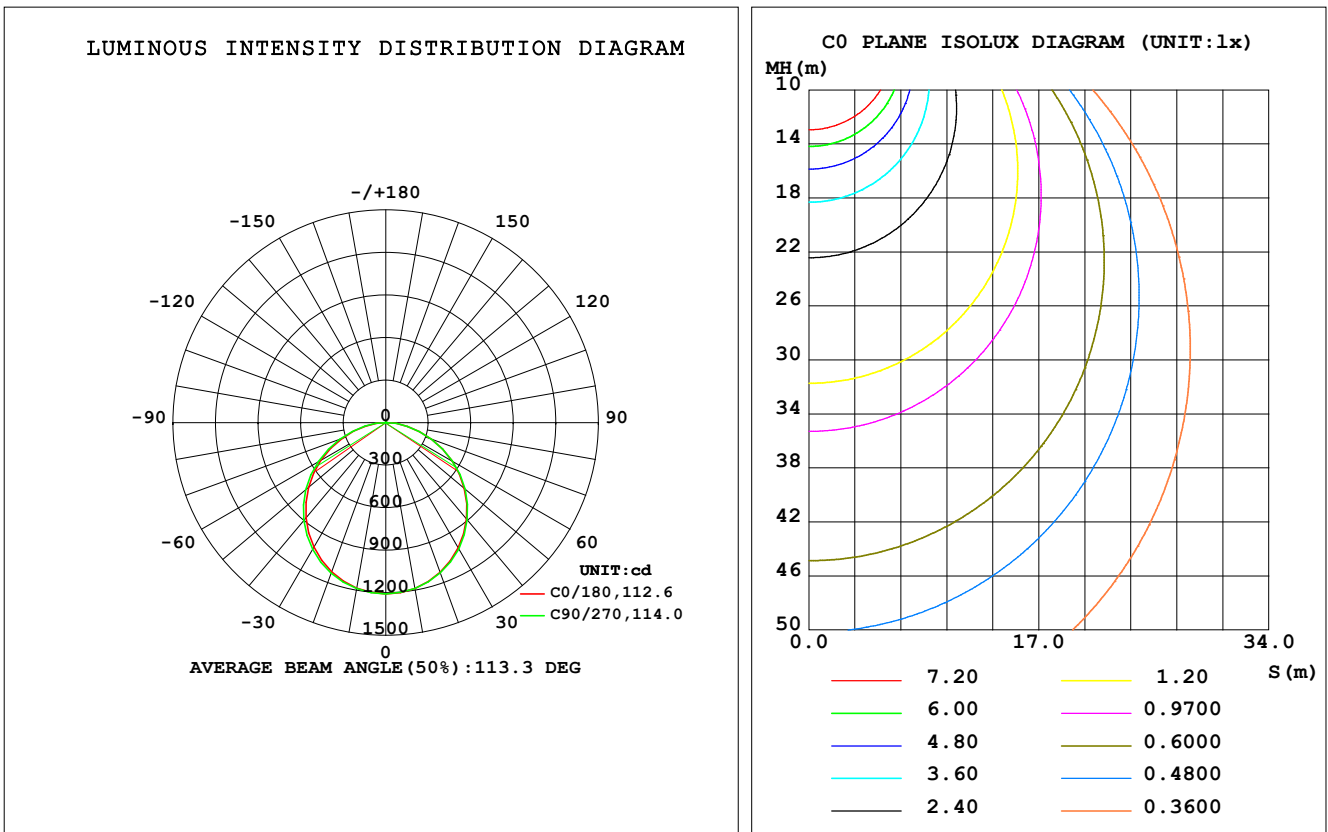


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.20V I:0.1178A P:25.059W PF:0.9659 Freq:50.00Hz Lamp Flux:3519.32x1 lm		
NAME: LED PANEL LIGHT	TYPE:IO60005H	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:01
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 140.44 lm/W			
MODEL		Imax(cd)	1207	S/MH(C0/180)	1.25
NOMINAL POWER(W)	26	LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	110	TOTAL FLUX(lm)	3519.3	η UP,DN(C0-180)	0.1,50.0
NOMINAL FLUX(lm)	3519.32	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.1,49.7
LAMPS INSIDE	1	η up(%)	0.3	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220.0	η down(%)	99.7	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:King
Test Date:2022-03-17

γ Range: 0 - 120DEG
 γ Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
Humidity:65.0%
Test Distance:9.950m [K=1.0050]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

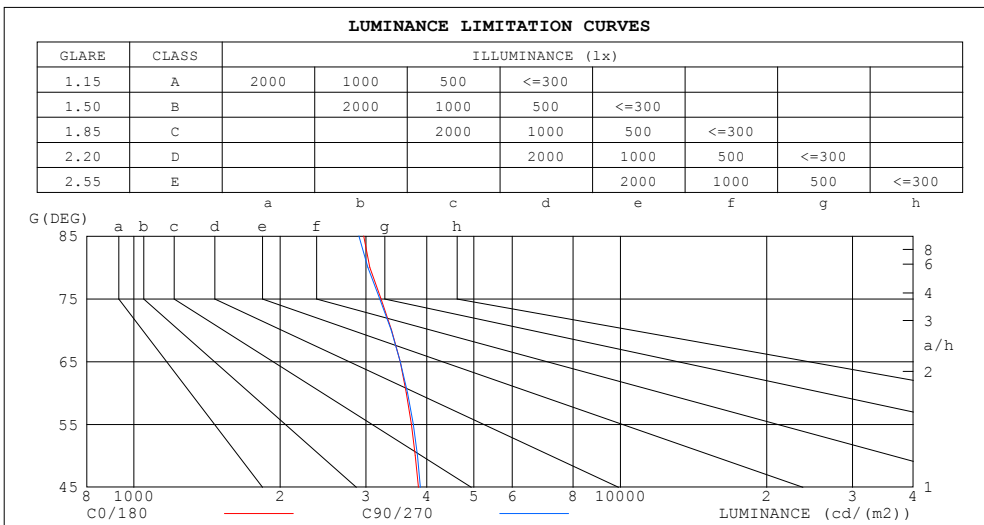
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	1187	1187	1184	1188					0- 10	114.2	114.2	3.25,3.25
20	1123	1127	1119	1130					10- 20	327.6	441.8	12.6,12.6
30	1021	1029	1014	1032					20- 30	497.3	939.1	26.7,26.7
40	885.5	894.8	876.6	899.2					30- 40	600.9	1540	43.8,43.8
50	723.0	731.2	711.8	736.6					40- 50	625.1	2165	61.5,61.5
60	539.3	542.7	526.4	547.3					50- 60	567.1	2732	77.6,77.6
70	343.8	344.0	330.6	345.7					60- 70	436.2	3168	90,90
80	157.4	156.2	145.6	152.3					70- 80	258.8	3427	97.4,97.4
90	7.434	4.543	2.502	3.905					80- 90	82.15	3509	99.7,99.7
100	1.994	2.123	2.414	2.381					90-100	2.873	3512	99.8,99.8
110	2.763	2.936	3.296	3.285					100-110	2.797	3515	99.9,99.9
120	3.470	3.650	4.009	4.028					110-120	3.414	3518	100,100
130	0	0	0	0					120-130	0.8759	3519	100,100
140	0	0	0	0					130-140	0	3519	100,100
150	0	0	0	0					140-150	0	3519	100,100
160	0	0	0	0					150-160	0	3519	100,100
170	0	0	0	0					160-170	0	3519	100,100
180	0	0	0	0					170-180	0	3519	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:King
 Test Date:2022-03-17

γ Range: 0 - 120DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
 Humidity:65.0%
 Test Distance:9.950m [K=1.0050]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.20V I:0.1178A P:25.059W PF:0.9659 Freq:50.00Hz Lamp Flux:3519.32x1 lm		
NAME: LED PANEL LIGHT	TYPE:IO60005H	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:01
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2969	2903
80	3054	3026
75	3222	3200
70	3387	3384
65	3529	3530
60	3634	3652
55	3721	3756
50	3790	3827
45	3848	3883

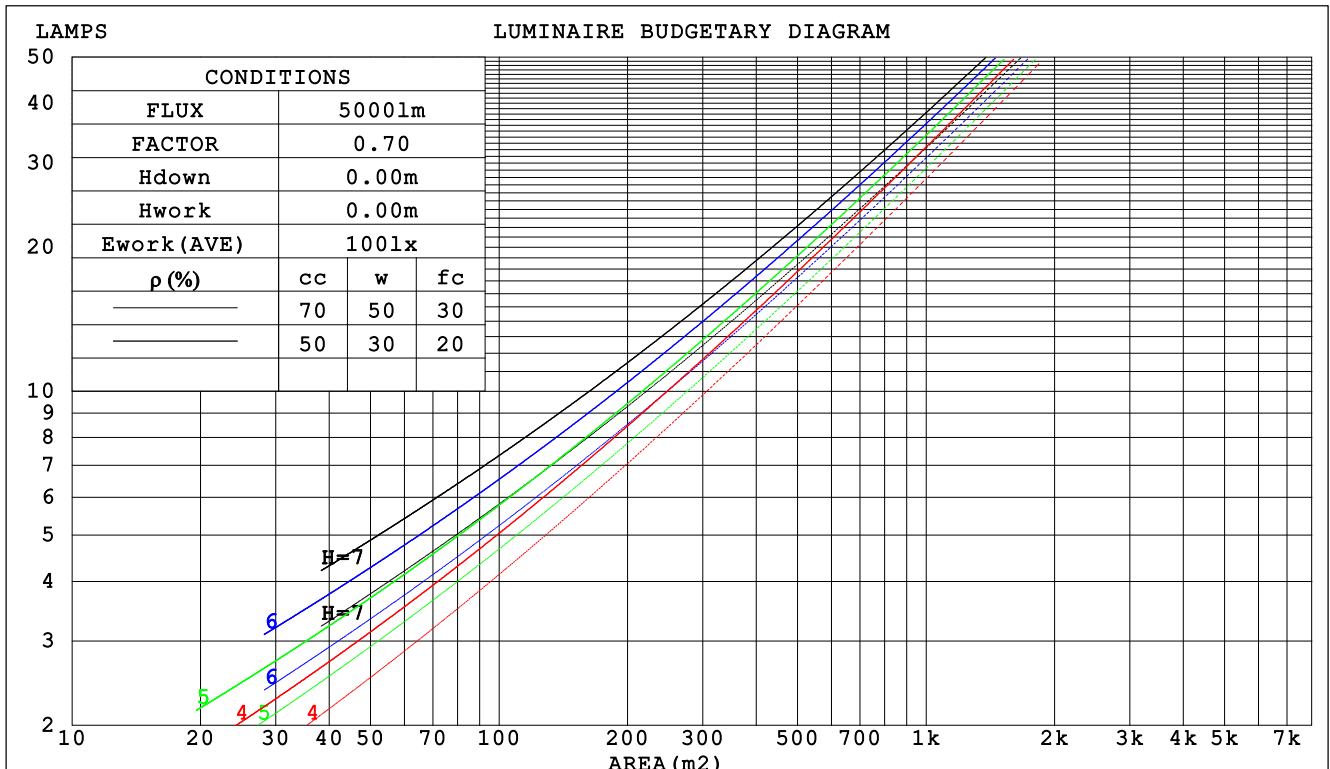
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:King
 Test Date:2022-03-17

γ Range: 0 - 120DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
 Humidity:65.0%
 Test Distance:9.950m [K=1.0050]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.20V I:0.1178A P:25.059W PF:0.9659 Freq:50.00Hz Lamp Flux:3519.32x1 lm		
NAME: LED PANEL LIGHT	TYPE:IO60005H	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:01
MFR.:	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 _f c	20%			20%			20%			20%			20%			0
RCR	Coefficients of Utilization(CU)															
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	.00
1.0	1.03	.99	.95	1.01	.97	.93	.97	.94	.90	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.84	.79	.74	.81	.77	.73	.78	.74	.71	.69
3.0	.79	.71	.64	.77	.69	.63	.74	.68	.62	.71	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.68	.60	.54	.66	.59	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.46	.61	.53	.46	.59	.51	.46	.57	.50	.45	.55	.49	.45	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.46	.40	.51	.45	.39	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.41	.36	.48	.41	.35	.47	.40	.35	.45	.39	.35	.33
8.0	.46	.38	.32	.46	.37	.32	.44	.37	.31	.43	.36	.31	.42	.36	.31	.29
9.0	.42	.34	.29	.42	.34	.28	.41	.33	.28	.40	.33	.28	.39	.32	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.25	.24



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:King
Test Date:2022-03-17

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γ Range: 0 - 120DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
Humidity:65.0%
Test Distance:9.950m [K=1.0050]
Remarks:

```

WEC AND CCEC

Test:U:220.20V I:0.1178A P:25.059W PF:0.9659 Freq:50.00Hz Lamp Flux:3519.32x1 lm					
NAME: LED PANEL LIGHT			TYPE:IO60005H		WEIGHT:
SPEC.:4000K			DIM.:		SERIAL No.:01
MFR.:			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	.317	.180	.057	.309	.177	.056	.296	.170	.054	.284	.164	.053	.272	.158	.051		
2.0	.296	.162	.050	.290	.160	.049	.278	.154	.048	.267	.150	.047	.257	.145	.046		
3.0	.273	.145	.044	.267	.143	.043	.257	.139	.042	.247	.135	.042	.238	.132	.041		
4.0	.251	.131	.038	.246	.129	.038	.237	.126	.038	.228	.123	.037	.220	.120	.036		
5.0	.232	.118	.034	.228	.117	.034	.219	.114	.034	.212	.112	.033	.204	.109	.033		
6.0	.215	.108	.031	.211	.107	.031	.204	.104	.030	.197	.102	.030	.190	.100	.030		
7.0	.200	.099	.028	.196	.098	.028	.190	.096	.028	.184	.094	.027	.178	.092	.027		
8.0	.187	.091	.026	.183	.090	.026	.178	.089	.025	.172	.087	.025	.167	.086	.025		
9.0	.175	.085	.024	.172	.084	.024	.167	.082	.023	.162	.081	.023	.157	.080	.023		
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.152	.076	.022	.148	.075	.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	.193	.193	.193	.165	.165	.165	.112	.112	.112	.065	.065	.065	.021	.021	.021	
1.0	.183	.158	.136	.157	.136	.117	.107	.093	.081	.062	.054	.047	.020	.017	.015	
2.0	.175	.134	.100	.150	.115	.086	.103	.080	.060	.059	.046	.035	.019	.015	.011	
3.0	.167	.117	.076	.143	.101	.066	.098	.070	.046	.057	.041	.027	.018	.013	.009	
4.0	.160	.103	.060	.137	.089	.052	.094	.062	.037	.054	.036	.022	.018	.012	.007	
5.0	.152	.093	.049	.131	.080	.043	.090	.056	.030	.052	.033	.018	.017	.011	.006	
6.0	.145	.085	.041	.125	.073	.036	.086	.051	.025	.050	.030	.015	.016	.010	.005	
7.0	.138	.078	.035	.119	.067	.031	.082	.047	.022	.048	.028	.013	.015	.009	.004	
8.0	.132	.072	.031	.113	.062	.027	.078	.044	.019	.046	.026	.011	.015	.008	.004	
9.0	.125	.067	.027	.108	.058	.024	.075	.041	.017	.044	.024	.010	.014	.008	.003	
10.0	.120	.063	.025	.103	.054	.021	.072	.038	.015	.042	.023	.009	.014	.007	.003	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:King
 Test Date:2022-03-17

γ Range: 0 - 120DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
 Humidity:65.0%
 Test Distance:9.950m [K=1.0050]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.20V I:0.1178A P:25.059W PF:0.9659 Freq:50.00Hz Lamp Flux:3519.32x1 lm										
NAME: LED PANEL LIGHT					TYPE:IO60005H			WEIGHT:		
SPEC.:4000K					DIM.:			SERIAL No.:01		
MFR.:					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	17.4	19.0	17.7	19.2	19.4	17.5	19.0	17.7	19.2	19.4
3H	19.0	20.4	19.3	20.6	20.9	19.0	20.4	19.3	20.7	20.9
4H	19.6	21.0	20.0	21.2	21.5	19.6	21.0	20.0	21.2	21.5
6H	20.1	21.4	20.5	21.7	22.0	20.1	21.4	20.4	21.7	21.9
8H	20.3	21.5	20.6	21.8	22.1	20.3	21.5	20.6	21.8	22.1
12H	20.4	21.6	20.8	21.9	22.2	20.4	21.6	20.7	21.9	22.2
4H 2H	18.1	19.4	18.4	19.7	19.9	18.1	19.4	18.4	19.7	20.0
3H	19.8	21.0	20.2	21.3	21.6	19.8	21.0	20.2	21.3	21.6
4H	20.6	21.6	20.9	22.0	22.3	20.6	21.6	20.9	22.0	22.3
6H	21.2	22.1	21.6	22.5	22.9	21.2	22.1	21.6	22.5	22.9
8H	21.4	22.3	21.8	22.7	23.1	21.4	22.3	21.8	22.7	23.1
12H	21.6	22.4	22.0	22.8	23.2	21.6	22.4	22.0	22.8	23.2
8H 4H	20.8	21.7	21.3	22.1	22.5	20.8	21.7	21.3	22.1	22.5
6H	21.6	22.4	22.1	22.8	23.2	21.6	22.4	22.1	22.8	23.2
8H	21.9	22.6	22.4	23.0	23.5	21.9	22.6	22.4	23.0	23.5
12H	22.2	22.8	22.7	23.2	23.7	22.2	22.7	22.7	23.2	23.7
12H 4H	20.9	21.7	21.3	22.1	22.5	20.9	21.7	21.3	22.1	22.5
6H	21.7	22.4	22.2	22.8	23.2	21.7	22.4	22.2	22.8	23.2
8H	22.1	22.6	22.5	23.1	23.6	22.1	22.6	22.5	23.1	23.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 3519 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 4.4$)

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:King
Test Date:2022-03-17

γ Range: 0 - 120DEG
 γ Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
Humidity:65.0%
Test Distance:9.950m [K=1.0050]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.20V I:0.1178A P:25.059W PF:0.9659 Freq:50.00Hz Lamp Flux:3519.32x1 lm		
NAME: LED PANEL LIGHT	TYPE:IO60005H	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:01
MFR.:	SUR.:	Shielding Angle:

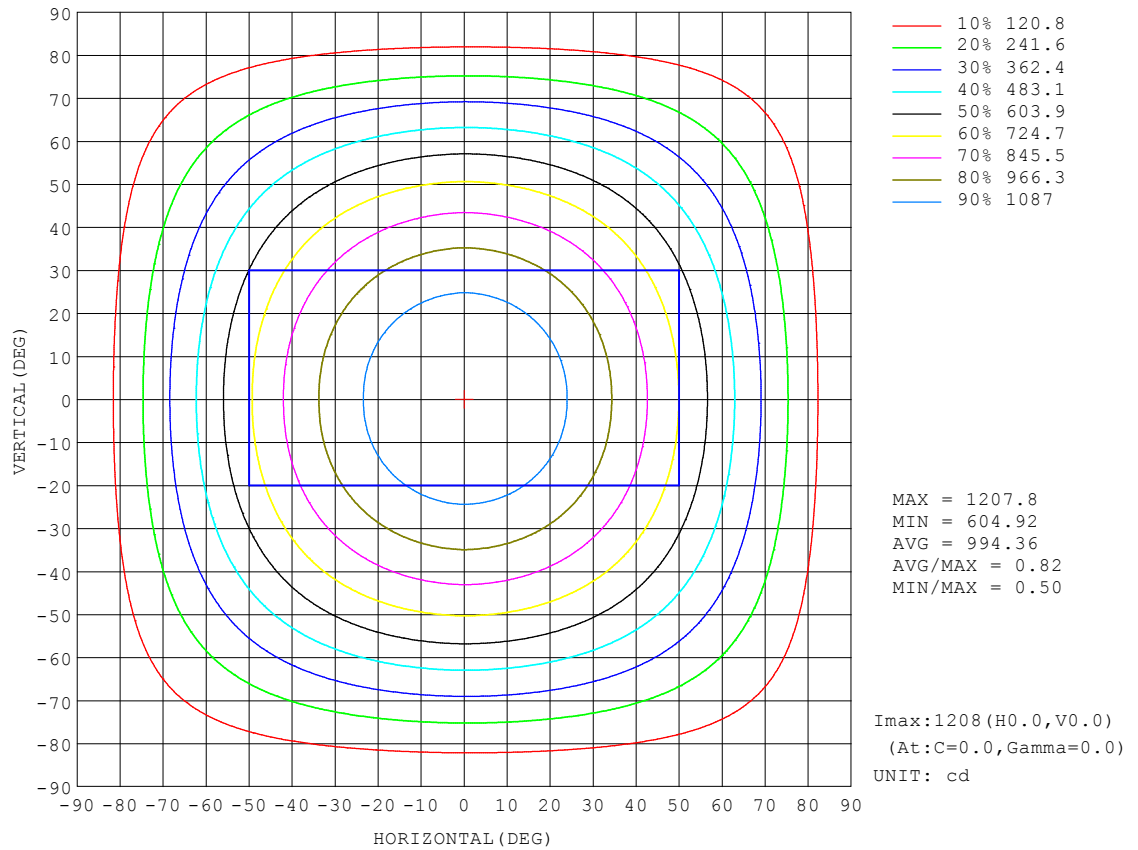
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	45	38	32
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	64	78	70	63	56
1.50	88	77	70	86	77	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	81	73
3.00	102	95	89	100	93	88	95	90	86	77
4.00	106	100	95	103	98	94	99	95	91	82
5.00	108	103	99	106	101	98	101	98	94	85
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:King
 Test Date:2022-03-17

γ Range: 0 - 120DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
 Humidity:65.0%
 Test Distance:9.950m [K=1.0050]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:220.20V I:0.1178A P:25.059W PF:0.9659 Freq:50.00Hz Lamp Flux:3519.32x1 lm		
NAME: LED PANEL LIGHT	TYPE:IO60005H	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:01
MFR.:	SUR.:	Shielding Angle:

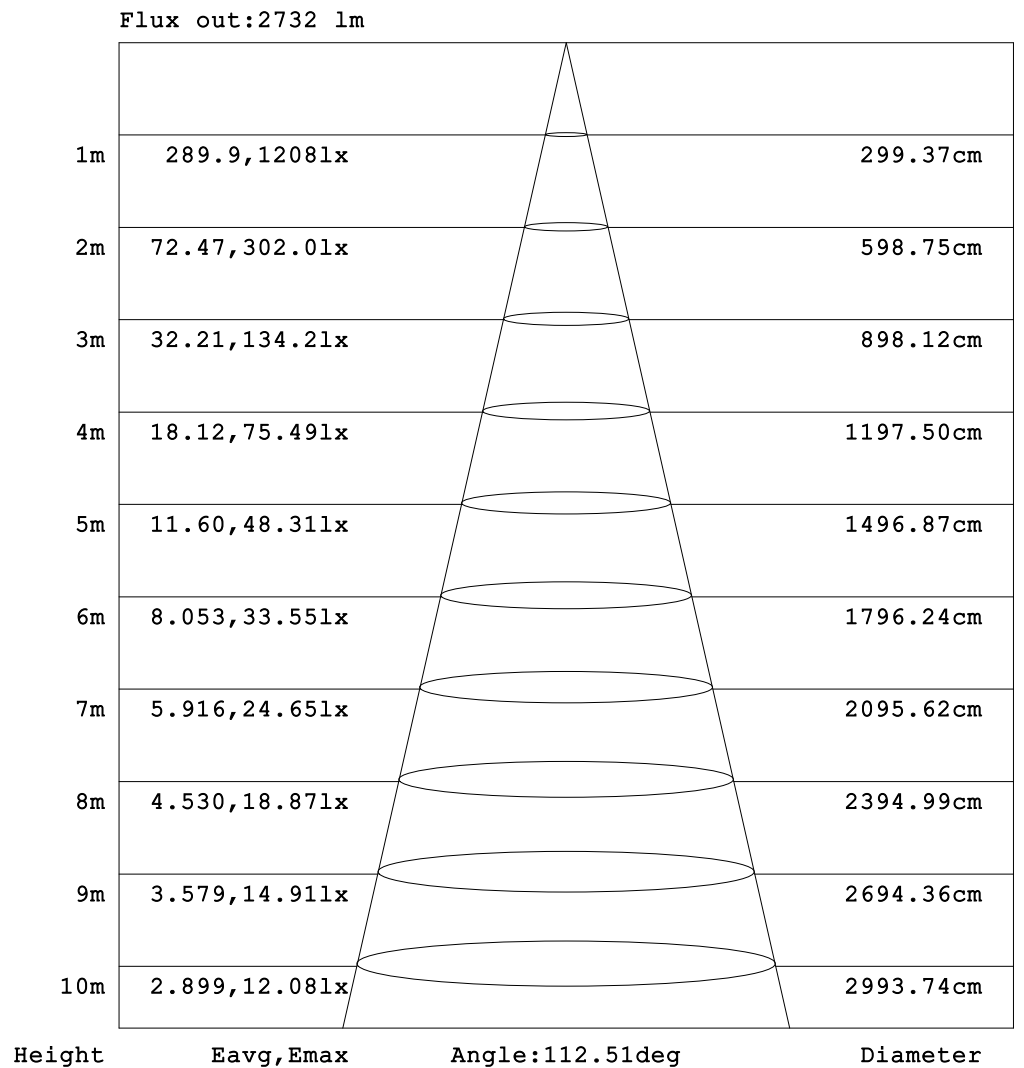


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:King
Test Date:2022-03-17

γ Range: 0 - 120DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
Humidity:65.0%
Test Distance:9.950m [K=1.0050]
Remarks:

AAI Figure

Test:U:220.20V I:0.1178A P:25.059W PF:0.9659 Freq:50.00Hz Lamp Flux:3519.32x1 lm		
NAME: LED PANEL LIGHT	TYPE:IO60005H	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:01
MFR.:	SUR.:	Shielding Angle:



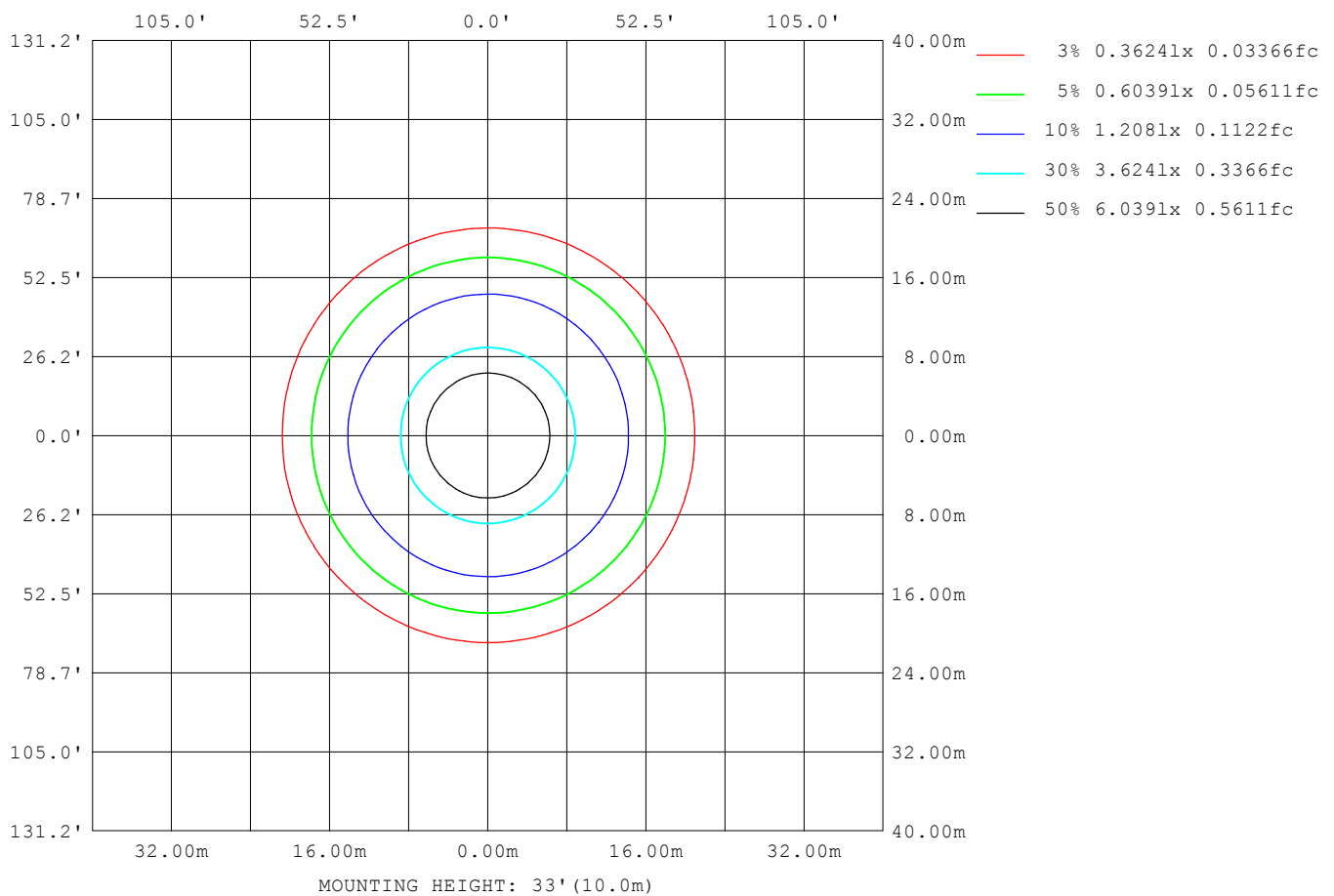
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:King
Test Date:2022-03-17

γ Range: 0 - 120DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
Humidity:65.0%
Test Distance:9.950m [K=1.0050]
Remarks:

ISOLUX DIAGRAM

Test:U:220.20V I:0.1178A P:25.059W PF:0.9659 Freq:50.00Hz Lamp Flux:3519.32x1 lm		
NAME: LED PANEL LIGHT	TYPE:IO60005H	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:01
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:King
Test Date:2022-03-17

γ Range: 0 - 120DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
Humidity:65.0%
Test Distance:9.950m [K=1.0050]
Remarks:

LED Avg.L Report

Test:U:220.20V I:0.1178A P:25.059W PF:0.9659 Freq:50.00Hz Lamp Flux:3519.32x1 lm		
NAME: LED PANEL LIGHT	TYPE:IO60005H	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:01
MFR.:	SUR.:	Shielding Angle:

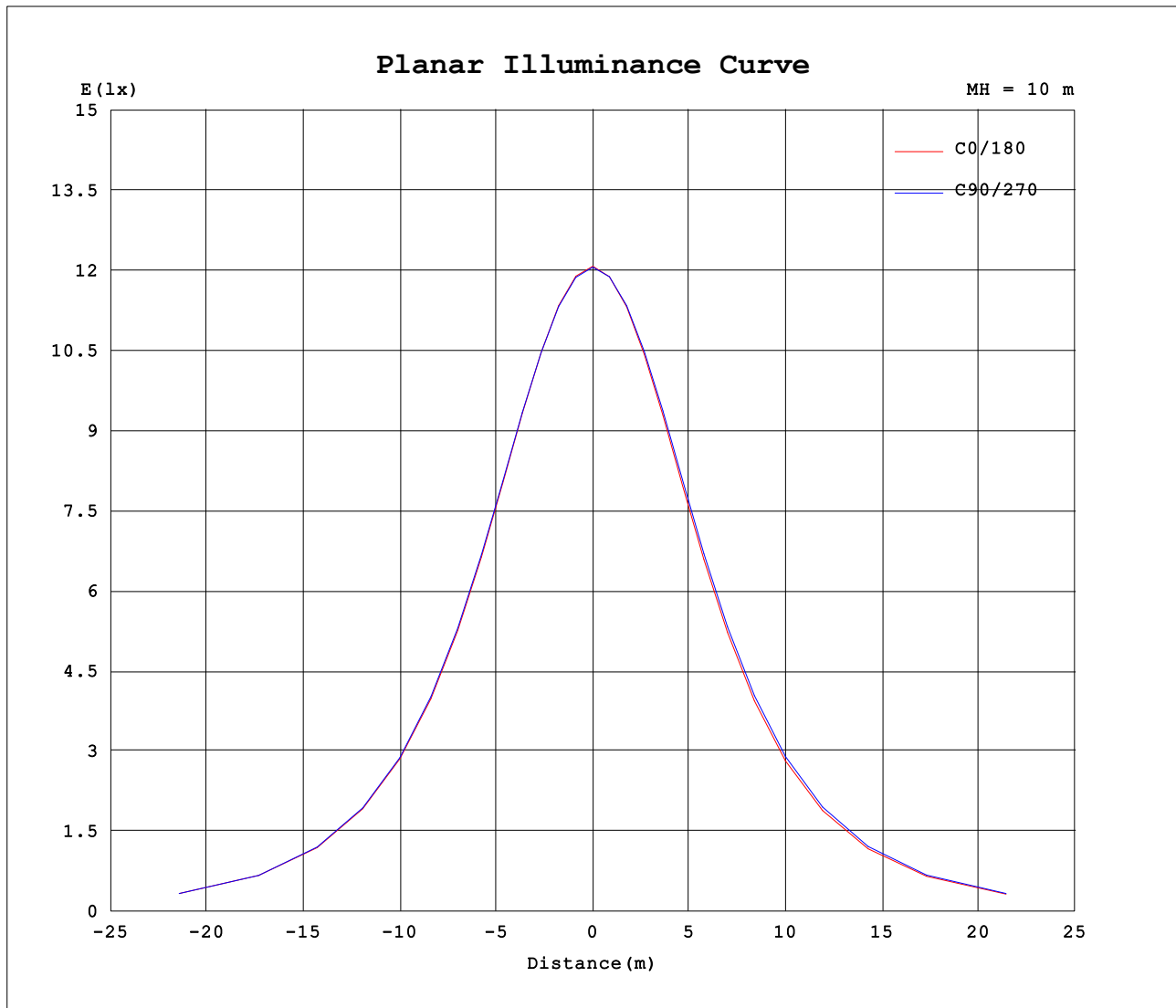
AvgL	cd/m2
L_0~180 (65) av	3477
L_0~180 (75) av	3137
L_0~180 (85) av	2765
L_90~270 (65) av	3548
L_90~270 (75) av	3197
L_90~270 (85) av	2809
L_45 (65) av	3518
L_45 (75) av	3169
L_45 (85) av	2780

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:King
Test Date:2022-03-17

γ Range: 0 - 120DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
Humidity:65.0%
Test Distance:9.950m [K=1.0050]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: King
 Test Date: 2022-03-17

γ Range: 0 - 120DEG
 γ Interval: 5.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
 Humidity: 65.0%
 Test Distance: 9.950m [K=1.0050]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.20V I:0.1178A P:25.059W PF:0.9659 Freq:50.00Hz Lamp Flux:3519.32x1 lm		
NAME: LED PANEL LIGHT	TYPE:IO60005H	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:01
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	1207	1207	1207	1207															
5	1202	1202	1201	1203															
10	1187	1187	1184	1188															
15	1160	1161	1157	1164															
20	1123	1127	1119	1130															
25	1077	1083	1071	1086															
30	1021	1029	1014	1032															
35	957	966	949	970															
40	886	895	877	899															
45	808	816	797	822															
50	723	731	712	737															
55	633	640	621	644															
60	539	543	526	547															
65	443	443	430	447															
70	344	344	331	346															
75	248	246	235	245															
80	157	156	146	152															
85	76.8	75.2	66.3	70.3															
90	7.43	4.54	2.50	3.90															
95	1.64	1.76	2.02	1.97															
100	1.99	2.12	2.41	2.38															
105	2.34	2.53	2.86	2.84															
110	2.76	2.94	3.30	3.28															
115	3.12	3.31	3.70	3.69															
120	3.47	3.65	4.01	4.03															
125	0.00	0.00	0.00	0.00															
130	0.00	0.00	0.00	0.00															
135	0.00	0.00	0.00	0.00															
140	0.00	0.00	0.00	0.00															
145	0.00	0.00	0.00	0.00															
150	0.00	0.00	0.00	0.00															
155	0.00	0.00	0.00	0.00															
160	0.00	0.00	0.00	0.00															
165	0.00	0.00	0.00	0.00															
170	0.00	0.00	0.00	0.00															
175	0.00	0.00	0.00	0.00															
180	0.00	0.00	0.00	0.00															

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:King
Test Date:2022-03-17

γ Range: 0 - 120DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
Humidity:65.0%
Test Distance:9.950m [K=1.0050]
Remarks: