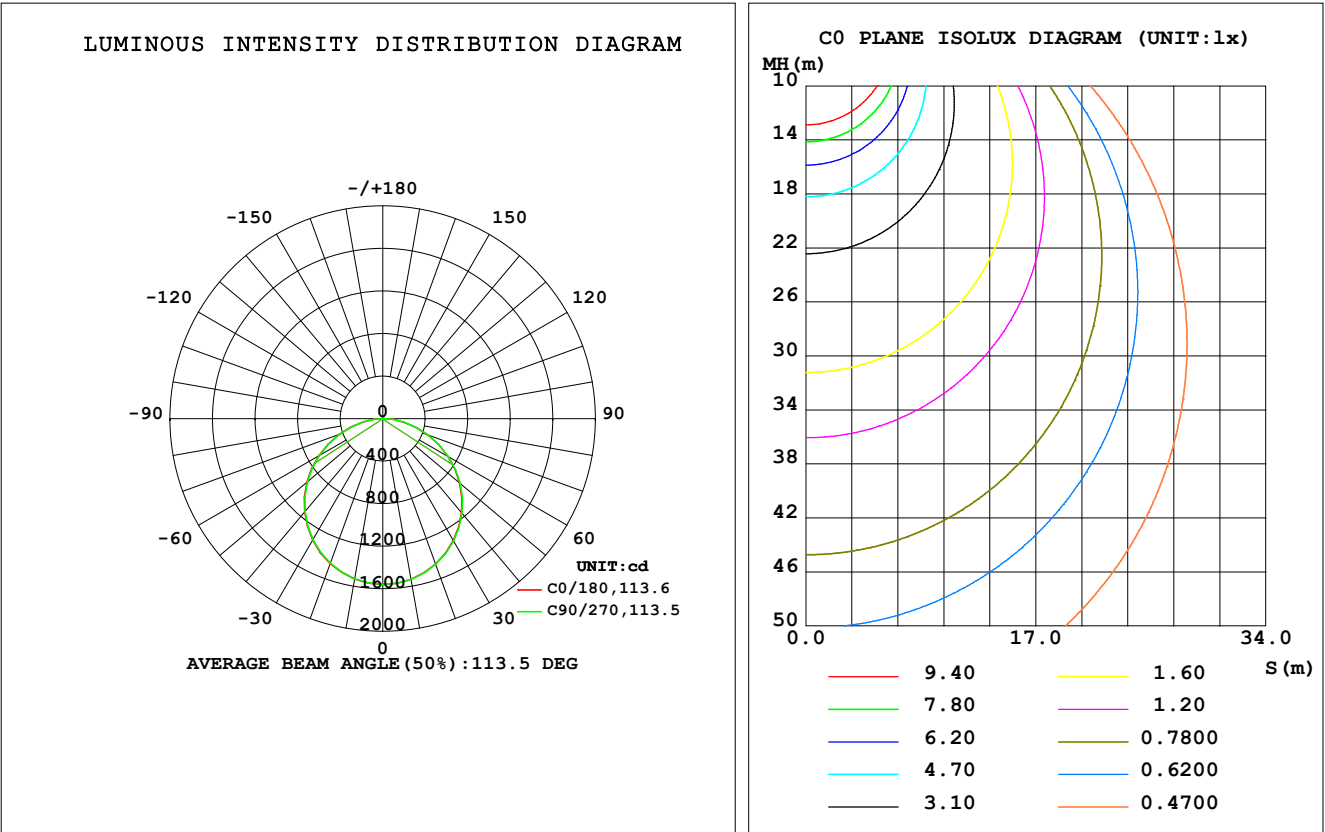


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.25V I:0.2149A P:46.021W PF:0.9725 Freq:49.99Hz Lamp Flux:4557.46x1 lm		
NAME: LED PANEL LIGHT	TYPE:VERONA	WEIGHT:
SPEC.:6500K	DIM.: 595*595*35mm	SERIAL No.:01
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 99.03 lm/W
MODEL	160101	Imax(cd)	1560	S/MH(C0/180)	1.26	
NOMINAL POWER(W)	50	LOR(%)	100.0	S/MH(C90/270)	1.25	
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	4557.5	η UP,DN(C0-180)	0.1,50.4	
NOMINAL FLUX(lm)	4557.46	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.1,49.3	
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:2025-02-18

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=1.0251]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

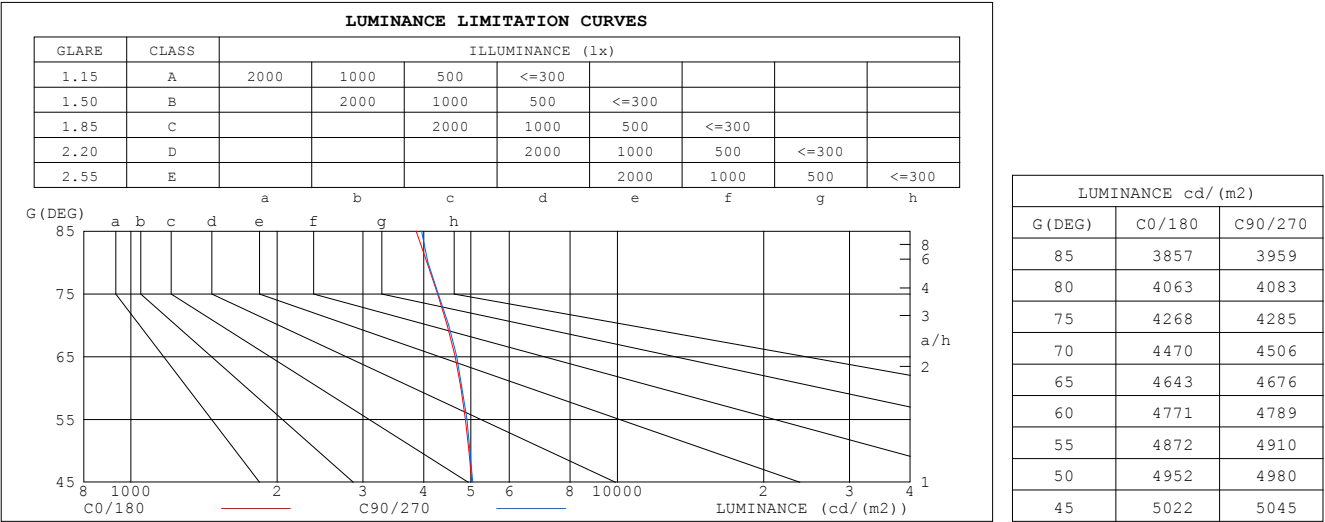
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum,lamp
10	1534	1536	1532	1530					0- 10	147.6	147.6	3.24,3.24
20	1455	1459	1451	1447					10- 20	423.1	570.7	12.5,12.5
30	1326	1331	1319	1314					20- 30	642.2	1213	26.6,26.6
40	1154	1160	1144	1138					30- 40	776.2	1989	43.6,43.6
50	945.4	950.7	933.3	926.3					40- 50	808.4	2797	61.4,61.4
60	708.4	711.2	692.8	686.3					50- 60	735.0	3532	77.5,77.5
70	454.0	457.8	436.9	430.6					60- 70	567.5	4100	90,90
80	209.6	210.6	193.0	187.8					70- 80	338.0	4438	97.4,97.4
90	9.510	11.39	3.367	2.987					80- 90	107.0	4545	99.7,99.7
100	3.080	2.310	2.871	2.905					90-100	3.876	4549	99.8,99.8
110	3.794	3.301	3.978	4.020					100-110	3.461	4552	99.9,99.9
120	4.501	4.247	4.974	5.004					110-120	4.203	4556	100,100
130	0	0	0	0					120-130	1.082	4557	100,100
140	0	0	0	0					130-140	0	4557	100,100
150	0	0	0	0					140-150	0	4557	100,100
160	0	0	0	0					150-160	0	4557	100,100
170	0	0	0	0					160-170	0	4557	100,100
180	0	0	0	0					170-180	0	4557	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:2025-02-18

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=1.0251]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.25V I:0.2149A P:46.021W PF:0.9725 Freq:49.99Hz Lamp Flux:4557.46x1 lm		
NAME: LED PANEL LIGHT	TYPE:VERONA	WEIGHT:
SPEC.:6500K	DIM.: 595*595*35mm	SERIAL No.:01
MFR.:	SUR.:	Shielding Angle:



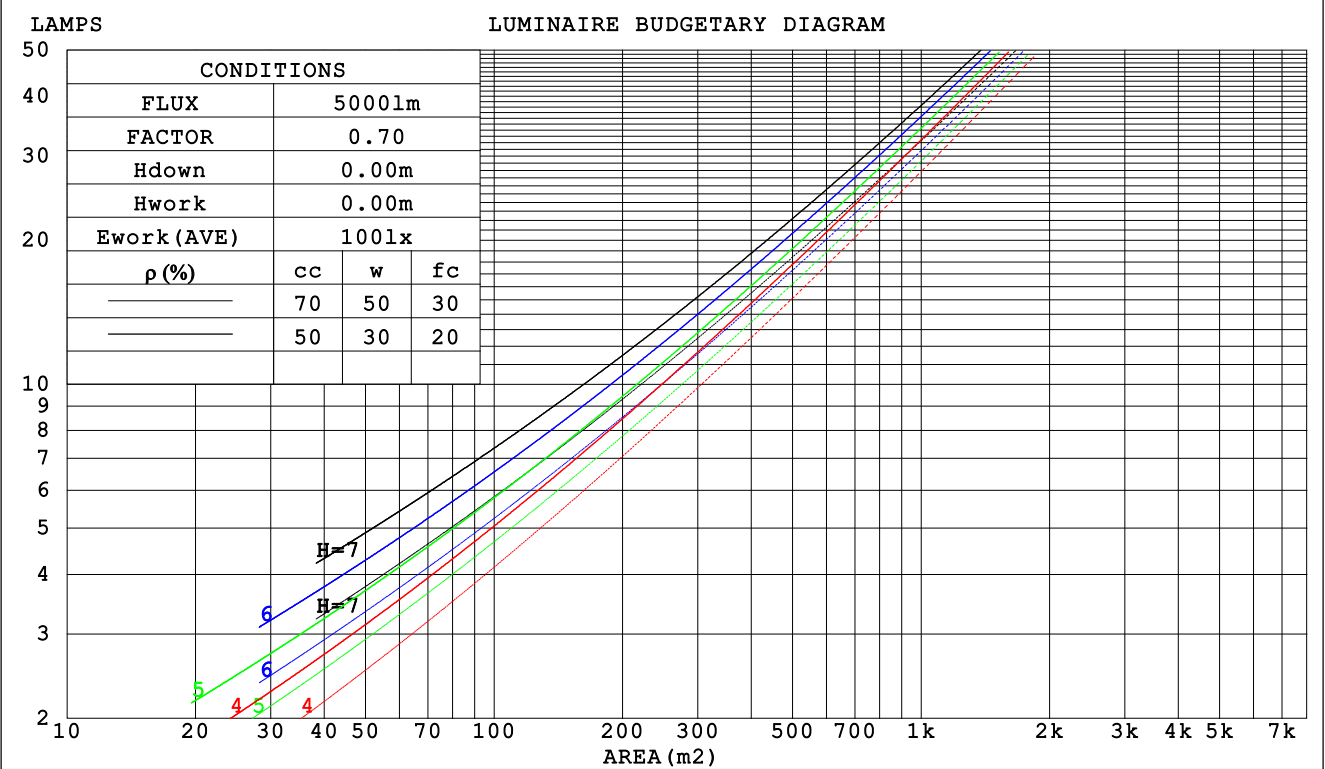
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:King
Test Date:2025-02-18

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=1.0251]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.25V I:0.2149A P:46.021W PF:0.9725 Freq:49.99Hz Lamp Flux:4557.46x1 lm		
NAME: LED PANEL LIGHT	TYPE:VERONA	WEIGHT:
SPEC.:6500K	DIM.: 595*595*35mm	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						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	.93	.90	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.84	.79	.74	.81	.76	.72	.78	.74	.71	.69
3.0	.79	.70	.64	.77	.69	.63	.74	.67	.62	.71	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.68	.60	.54	.66	.58	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.45	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.40	.51	.45	.39	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.41	.35	.48	.41	.35	.47	.40	.35	.45	.39	.35	.33
8.0	.46	.38	.32	.45	.37	.32	.44	.37	.31	.43	.36	.31	.42	.36	.31	.29
9.0	.42	.34	.29	.42	.34	.28	.41	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.30	.26	.37	.30	.25	.36	.30	.25	.24



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:King
Test Date:2025-02-18

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=1.0251]
Remarks:

WEC AND CCEC

Test:U:220.25V I:0.2149A P:46.021W PF:0.9725 Freq:49.99Hz Lamp Flux:4557.46x1 lm								
NAME: LED PANEL LIGHT				TYPE:VERONA			WEIGHT:	
SPEC.:6500K				DIM.: 595*595*35mm			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	.310	.177	.056	.297	.170	.054	.284	.164	.053	.273	.158	.051		
2.0	.296	.162	.050	.290	.160	.049	.278	.155	.048	.267	.150	.047	.257	.145	.046		
3.0	.273	.145	.044	.268	.143	.043	.257	.139	.042	.247	.136	.042	.238	.132	.041		
4.0	.252	.131	.038	.247	.129	.038	.237	.126	.038	.229	.123	.037	.221	.120	.037		
5.0	.232	.118	.034	.228	.117	.034	.220	.114	.034	.212	.112	.033	.205	.109	.033		
6.0	.215	.108	.031	.211	.107	.031	.204	.104	.030	.197	.102	.030	.190	.100	.030		
7.0	.200	.099	.028	.197	.098	.028	.190	.096	.028	.184	.094	.027	.178	.092	.027		
8.0	.187	.091	.026	.184	.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	.116	.076	.143	.100	.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	.084	.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:2025-02-18

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=1.0251]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.25V I:0.2149A P:46.021W PF:0.9725 Freq:49.99Hz Lamp Flux:4557.46x1 lm										
NAME: LED PANEL LIGHT					TYPE:VERONA			WEIGHT:		
SPEC.:6500K					DIM.: 595*595*35mm			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	18.4	20.0	18.7	20.2	20.4	18.4	20.0	18.7	20.2	20.4
3H	20.0	21.4	20.3	21.6	21.9	20.0	21.4	20.3	21.7	21.9
4H	20.6	22.0	21.0	22.3	22.5	20.7	22.0	21.0	22.3	22.5
6H	21.1	22.4	21.5	22.7	23.0	21.2	22.4	21.5	22.7	23.0
8H	21.3	22.5	21.6	22.8	23.1	21.3	22.6	21.7	22.8	23.1
12H	21.4	22.6	21.8	22.9	23.2	21.4	22.6	21.8	22.9	23.2
4H 2H	19.1	20.4	19.4	20.7	20.9	19.1	20.4	19.4	20.7	20.9
3H	20.8	22.0	21.2	22.3	22.6	20.8	22.0	21.2	22.3	22.6
4H	21.6	22.7	22.0	23.0	23.3	21.6	22.7	22.0	23.0	23.4
6H	22.2	23.2	22.6	23.5	23.9	22.2	23.2	22.6	23.6	23.9
8H	22.4	23.3	22.9	23.7	24.1	22.5	23.4	22.9	23.7	24.1
12H	22.6	23.4	23.0	23.8	24.2	22.6	23.5	23.1	23.8	24.3
8H 4H	21.9	22.8	22.3	23.2	23.5	21.9	22.8	22.3	23.2	23.6
6H	22.7	23.4	23.1	23.8	24.3	22.7	23.4	23.1	23.9	24.3
8H	23.0	23.6	23.4	24.1	24.5	23.0	23.7	23.5	24.1	24.6
12H	23.2	23.8	23.7	24.3	24.7	23.3	23.8	23.7	24.3	24.8
12H 4H	21.9	22.7	22.3	23.1	23.5	21.9	22.7	22.4	23.1	23.6
6H	22.7	23.4	23.2	23.8	24.3	22.8	23.4	23.2	23.9	24.3
8H	23.1	23.7	23.6	24.1	24.6	23.1	23.7	23.6	24.2	24.6
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	+ 0.1 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 4557 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 5.3$)

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:King
 Test Date:2025-02-18

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=1.0251]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.25V I:0.2149A P:46.021W PF:0.9725 Freq:49.99Hz Lamp Flux:4557.46x1 lm		
NAME: LED PANEL LIGHT	TYPE:VERONA	WEIGHT:
SPEC.:6500K	DIM.: 595*595*35mm	SERIAL No.:01
MFR.:	SUR.:	Shielding Angle:

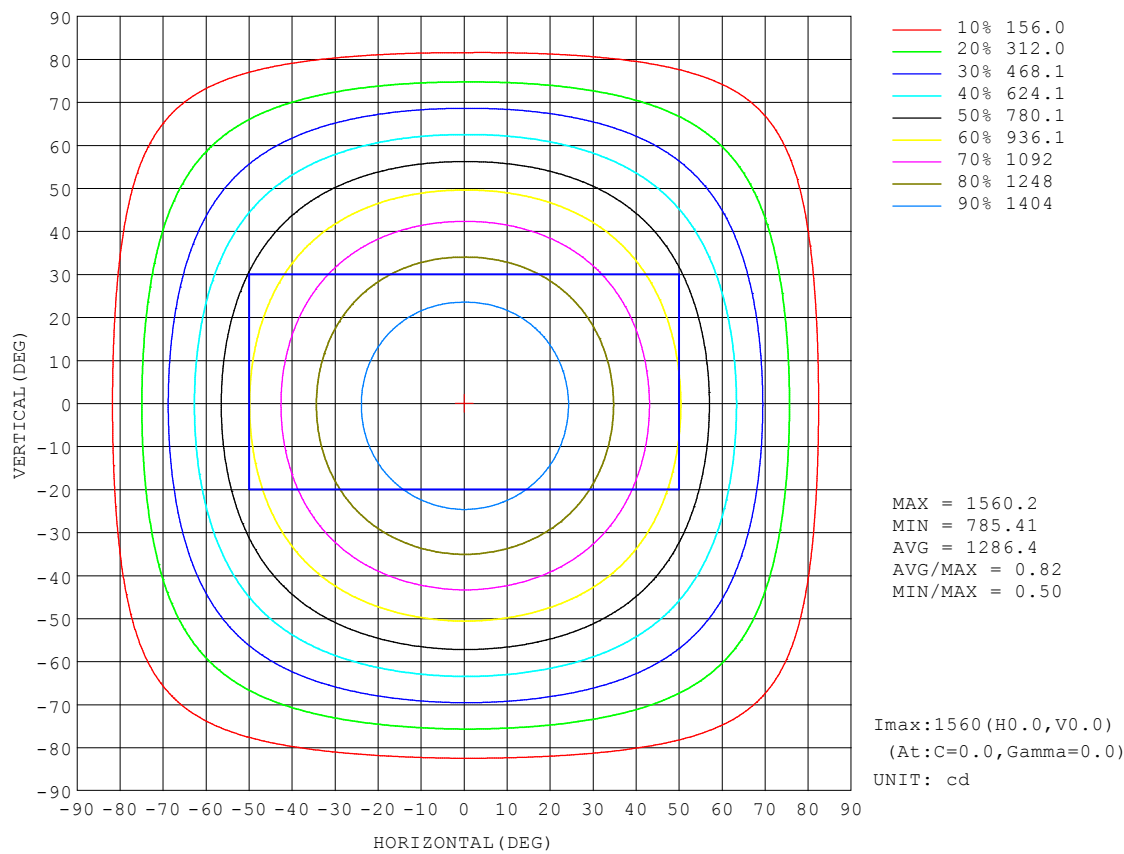
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	45	38	31
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	63	56	72	65	56	49
1.25	82	72	65	81	71	64	78	70	63	56
1.50	87	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:2025-02-18

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=1.0251]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:220.25V I:0.2149A P:46.021W PF:0.9725 Freq:49.99Hz Lamp Flux:4557.46x1 lm		
NAME: LED PANEL LIGHT	TYPE:VERONA	WEIGHT:
SPEC.:6500K	DIM.: 595*595*35mm	SERIAL No.:01
MFR.:	SUR.:	Shielding Angle:

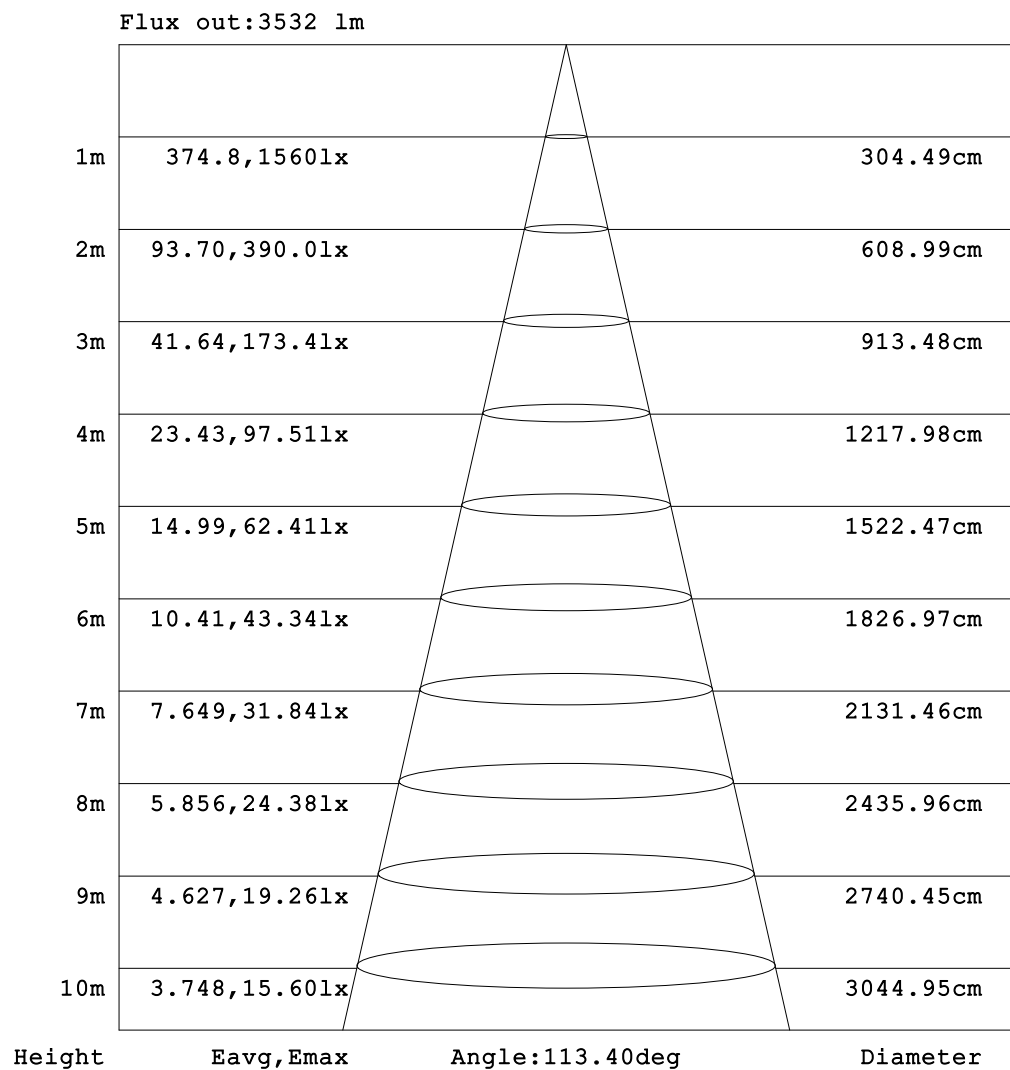


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:King
Test Date:2025-02-18

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=1.0251]
Remarks:

AAI Figure

Test:U:220.25V I:0.2149A P:46.021W PF:0.9725 Freq:49.99Hz Lamp Flux:4557.46x1 lm		
NAME: LED PANEL LIGHT	TYPE:VERONA	WEIGHT:
SPEC.:6500K	DIM.: 595*595*35mm	SERIAL No.:01
MFR.:	SUR.:	Shielding Angle:



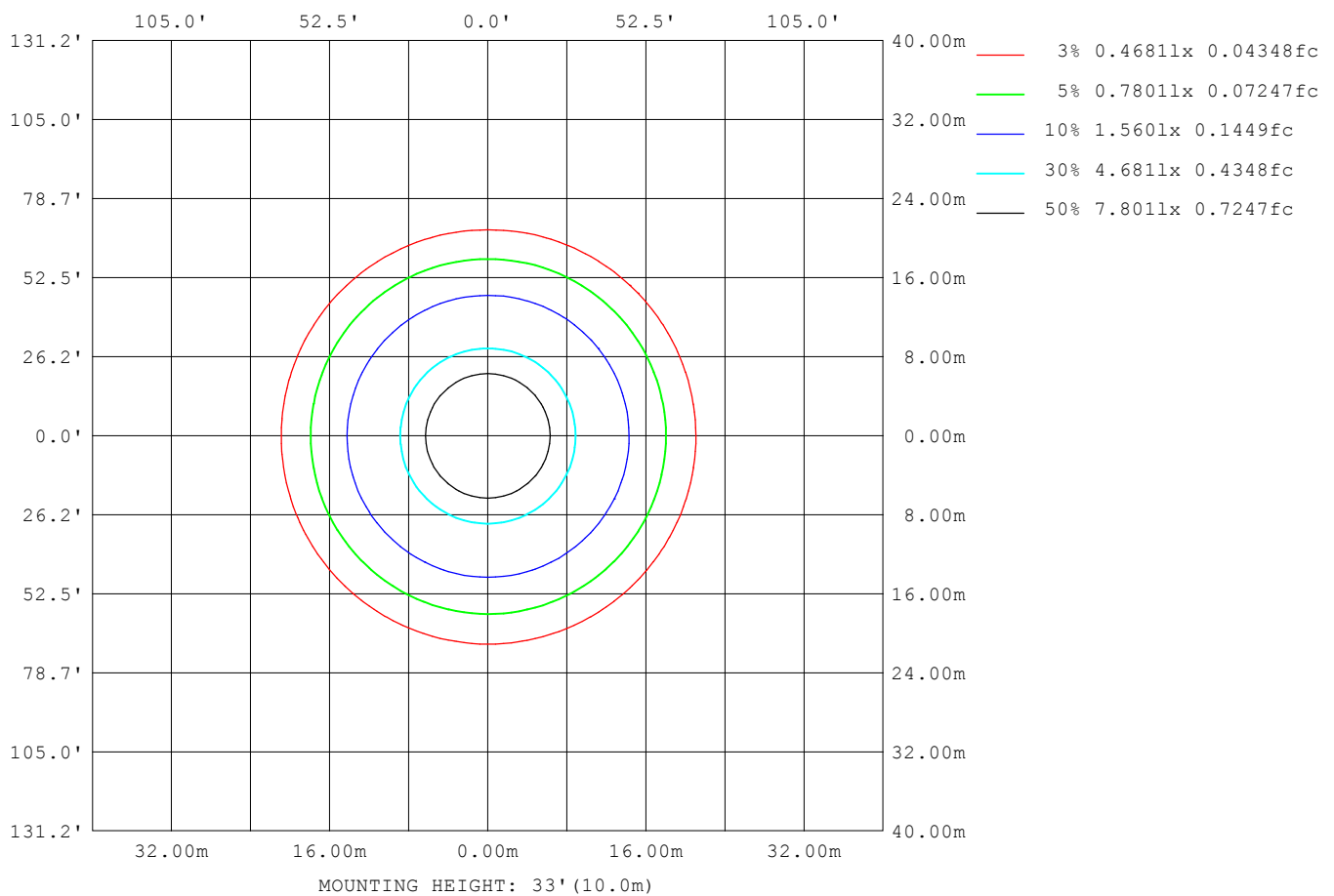
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: King
 Test Date: 2025-02-18

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=1.0251]
 Remarks:

ISOLUX DIAGRAM

Test:U:220.25V I:0.2149A P:46.021W PF:0.9725 Freq:49.99Hz Lamp Flux:4557.46x1 lm		
NAME: LED PANEL LIGHT	TYPE:VERONA	WEIGHT:
SPEC.:6500K	DIM.: 595*595*35mm	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:2025-02-18

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=1.0251]
 Remarks:

LED Avg.L Report

Test:U:220.25V I:0.2149A P:46.021W PF:0.9725 Freq:49.99Hz Lamp Flux:4557.46x1 lm		
NAME: LED PANEL LIGHT	TYPE:VERONA	WEIGHT:
SPEC.:6500K	DIM.: 595*595*35mm	SERIAL No.:01
MFR.:	SUR.:	Shielding Angle:

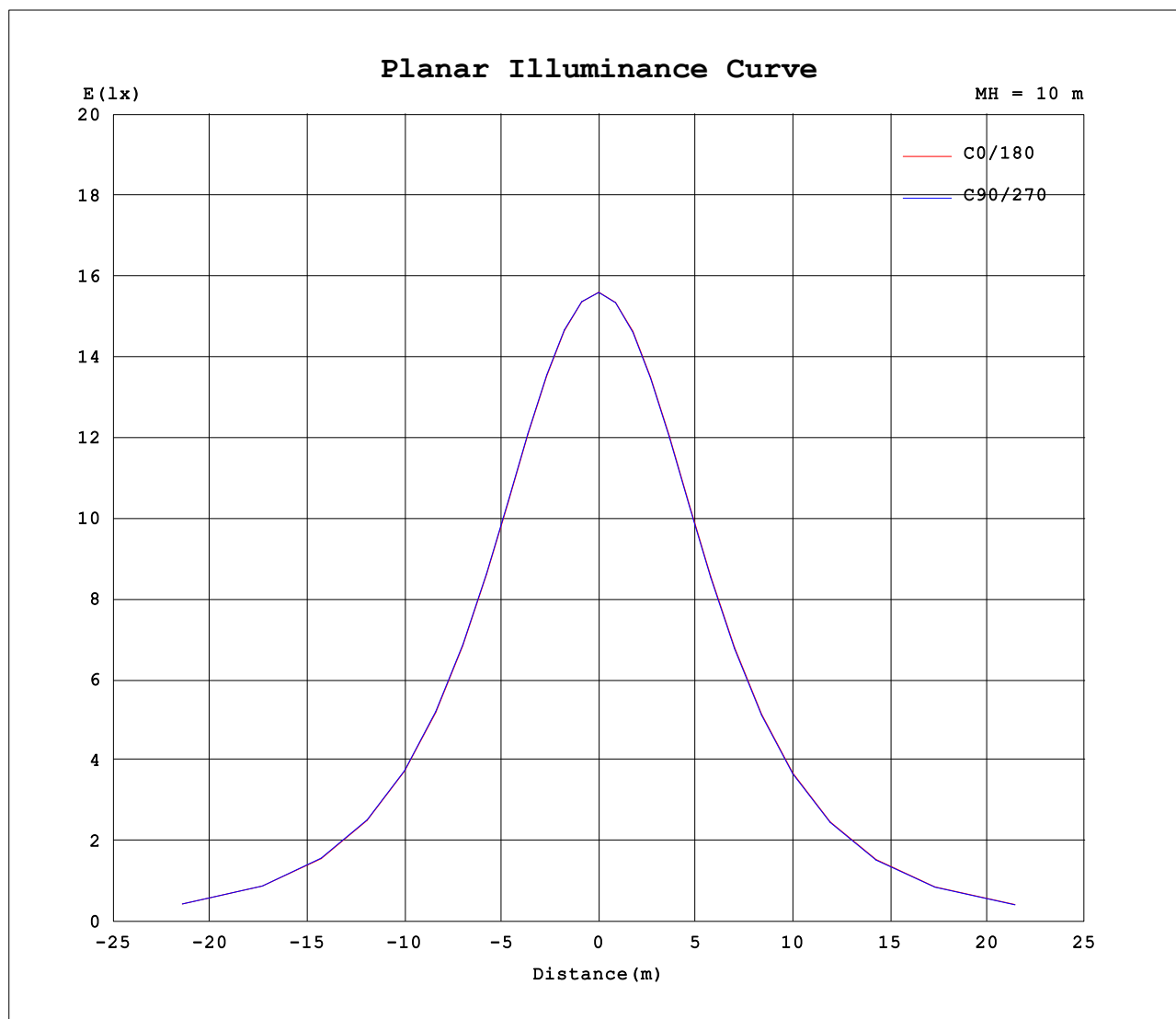
AvgL	cd/m2
L_0~180 (65) av	4575
L_0~180 (75) av	4151
L_0~180 (85) av	3622
L_90~270 (65) av	4567
L_90~270 (75) av	4118
L_90~270 (85) av	3563
L_45 (65) av	4565
L_45 (75) av	4123
L_45 (85) av	3570

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:King
 Test Date:2025-02-18

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=1.0251]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: King
Test Date: 2025-02-18

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=1.0251]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.25V I:0.2149A P:46.021W PF:0.9725 Freq:49.99Hz Lamp Flux:4557.46x1 lm		
NAME: LED PANEL LIGHT	TYPE:VERONA	WEIGHT:
SPEC.:6500K	DIM.: 595*595*35mm	SERIAL No.:01
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270														
0	1560	1560	1560	1560														
5	1554	1555	1553	1552														
10	1534	1536	1532	1530														
15	1501	1504	1498	1494														
20	1455	1459	1451	1447														
25	1396	1401	1391	1386														
30	1326	1331	1319	1314														
35	1244	1250	1237	1231														
40	1154	1160	1144	1138														
45	1055	1060	1043	1036														
50	945	951	933	926														
55	830	837	816	809														
60	708	711	693	686														
65	583	587	566	559														
70	454	458	437	431														
75	328	329	310	304														
80	210	211	193	188														
85	99.8	102	87.7	81.9														
90	9.51	11.4	3.37	2.99														
95	2.63	1.88	2.32	2.35														
100	3.08	2.31	2.87	2.91														
105	3.42	2.78	3.42	3.44														
110	3.79	3.30	3.98	4.02														
115	4.17	3.80	4.49	4.54														
120	4.50	4.25	4.97	5.00														
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:2025-02-18

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=1.0251]
 Remarks: