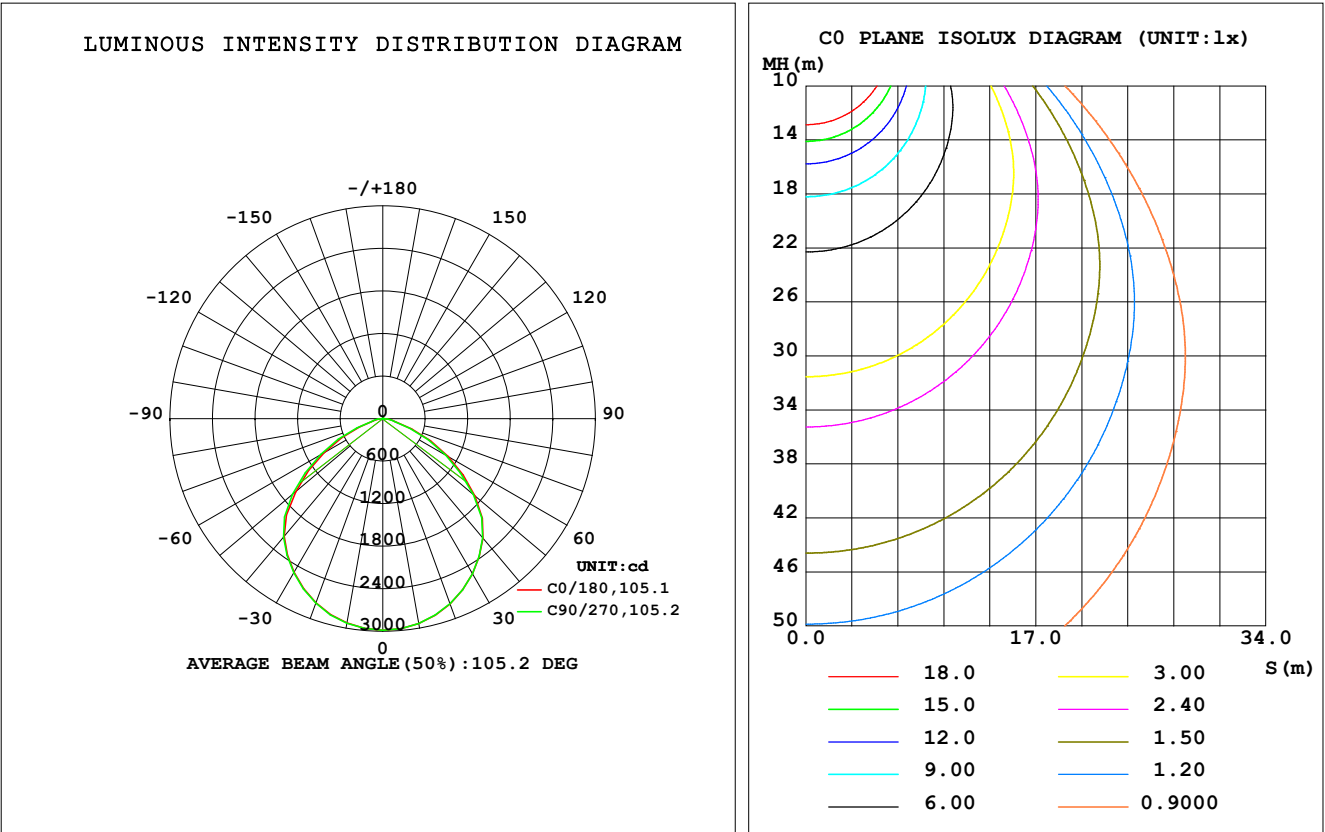


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.16V I:0.7868A P:70.091W PF:0.4046 Freq:49.99Hz Lamp Flux:7489.1x1 lm		
NAME: LED PANEL LIGHT	TYPE:PALERMO	WEIGHT:
SPEC.:4000K	DIM.: 595*595*30mm	SERIAL No.:01
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 106.85 lm/W
MODEL	162101	Imax(cd)	2983	S/MH(C0/180)	1.25	
NOMINAL POWER(W)	72	LOR(%)	100.0	S/MH(C90/270)	1.25	
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	7489.1	η UP,DN(C0-180)	0.1,50.5	
NOMINAL FLUX(lm)	7489.1	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.1,49.2	
LAMPS INSIDE	1	η up(%)	0.2	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	220.0	η down(%)	99.8	CIBSE SHR MAX	1.35	



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:King
Test Date:2025-11-18

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=1.1055]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

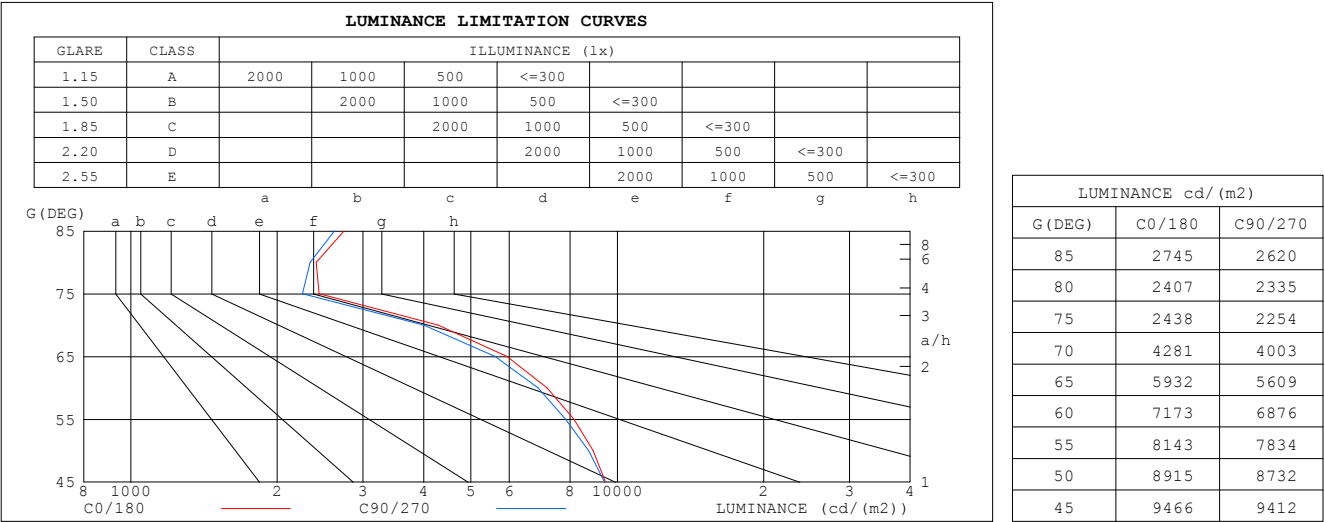
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	2935	2933	2926	2930					0- 10	282.3	282.3	3.77,3.77
20	2781	2776	2765	2769					10- 20	808.4	1091	14.6,14.6
30	2531	2526	2504	2511					20- 30	1224	2315	30.9,30.9
40	2201	2196	2167	2180					30- 40	1477	3792	50.6,50.6
50	1701	1667	1607	1662					40- 50	1500	5292	70.7,70.7
60	1065	1021	957.7	1008					50- 60	1193	6486	86.6,86.6
70	434.7	406.7	350.6	393.4					60- 70	692.2	7178	95.8,95.8
80	124.1	120.5	108.8	118.9					70- 80	224.9	7403	98.8,98.8
90	7.086	4.060	2.423	2.542					80- 90	68.73	7471	99.8,99.8
100	2.973	3.298	4.296	4.065					90-100	3.585	7475	99.8,99.8
110	5.141	5.560	6.811	6.590					100-110	5.108	7480	99.9,99.9
120	7.207	7.677	8.960	8.838					110-120	7.044	7487	100,100
130	0	0	0	0					120-130	1.889	7489	100,100
140	0	0	0	0					130-140	0	7489	100,100
150	0	0	0	0					140-150	0	7489	100,100
160	0	0	0	0					150-160	0	7489	100,100
170	0	0	0	0					160-170	0	7489	100,100
180	0	0	0	0					170-180	0	7489	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:2025-11-18

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=1.1055]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.16V I:0.7868A P:70.091W PF:0.4046 Freq:49.99Hz Lamp Flux:7489.1x1 lm		
NAME: LED PANEL LIGHT	TYPE:PALERMO	WEIGHT:
SPEC.:4000K	DIM.: 595*595*30mm	SERIAL No.:01
MFR.:	SUR.:	Shielding Angle:



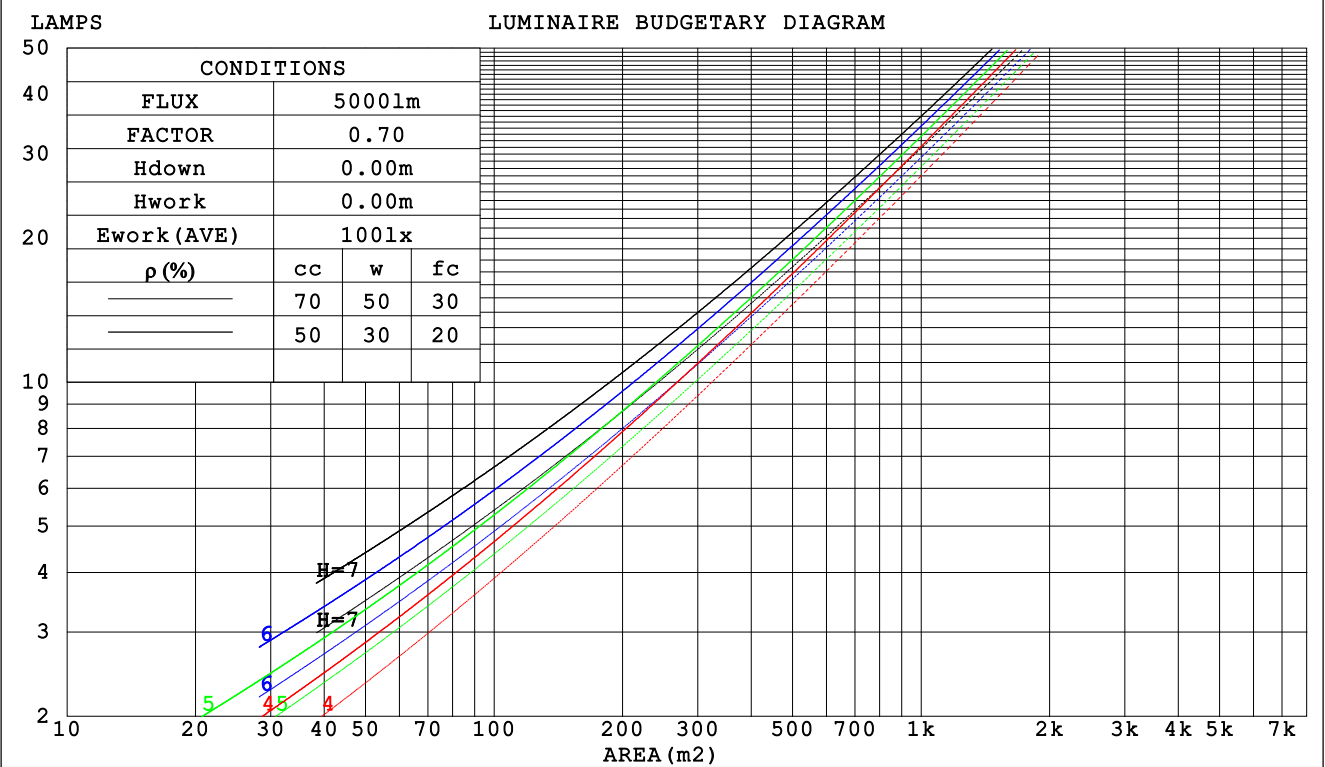
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:King
Test Date:2025-11-18

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=1.1055]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.16V I:0.7868A P:70.091W PF:0.4046 Freq:49.99Hz Lamp Flux:7489.1x1 lm		
NAME: LED PANEL LIGHT	TYPE:PALERMO	WEIGHT:
SPEC.:4000K	DIM.: 595*595*30mm	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	1.06	1.02	.99	1.04	1.00	.97	.99	.97	.94	.95	.93	.91	.92	.90	.88	.86
2.0	.94	.87	.82	.92	.86	.81	.88	.83	.79	.85	.81	.78	.82	.79	.76	.74
3.0	.83	.75	.69	.81	.74	.69	.78	.72	.68	.76	.71	.66	.73	.69	.65	.63
4.0	.74	.66	.59	.73	.65	.59	.70	.64	.58	.68	.62	.57	.66	.61	.57	.55
5.0	.66	.58	.52	.65	.57	.51	.63	.56	.51	.61	.55	.50	.59	.54	.50	.48
6.0	.60	.51	.45	.59	.51	.45	.57	.50	.45	.56	.49	.44	.54	.48	.44	.42
7.0	.54	.46	.40	.54	.46	.40	.52	.45	.40	.51	.44	.39	.49	.44	.39	.37
8.0	.50	.42	.36	.49	.41	.36	.48	.41	.36	.46	.40	.35	.45	.39	.35	.33
9.0	.46	.38	.32	.45	.37	.32	.44	.37	.32	.43	.36	.32	.42	.36	.32	.30
10.0	.42	.34	.29	.42	.34	.29	.41	.34	.29	.40	.33	.29	.39	.33	.29	.27



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:King
Test Date:2025-11-18

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=1.1055]
Remarks:

WEC AND CCEC

Test:U:220.16V I:0.7868A P:70.091W PF:0.4046 Freq:49.99Hz Lamp Flux:7489.1x1 lm								
NAME: LED PANEL LIGHT				TYPE:PALERMO			WEIGHT:	
SPEC.:4000K				DIM.: 595*595*30mm			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	.271	.154	.049	.264	.151	.048	.251	.144	.046	.239	.138	.044	.227	.132	.042		
2.0	.261	.143	.044	.255	.141	.043	.244	.136	.042	.233	.131	.041	.223	.126	.040		
3.0	.247	.131	.039	.241	.129	.039	.231	.125	.038	.222	.121	.037	.213	.118	.036		
4.0	.231	.120	.035	.226	.118	.035	.217	.115	.034	.209	.112	.034	.201	.109	.033		
5.0	.216	.110	.032	.212	.109	.032	.204	.106	.031	.196	.104	.031	.189	.101	.030		
6.0	.202	.101	.029	.199	.100	.029	.191	.098	.029	.185	.096	.028	.178	.094	.028		
7.0	.190	.094	.027	.186	.093	.026	.180	.091	.026	.174	.089	.026	.168	.087	.026		
8.0	.178	.087	.024	.175	.086	.024	.169	.085	.024	.164	.083	.024	.159	.082	.024		
9.0	.168	.081	.023	.165	.080	.023	.160	.079	.022	.155	.078	.022	.150	.076	.022		
10.0	.158	.076	.021	.156	.075	.021	.151	.074	.021	.147	.073	.021	.143	.072	.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	.192	.192	.192	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021	
1.0	.179	.158	.139	.154	.136	.120	.105	.093	.083	.060	.054	.048	.019	.017	.016	
2.0	.170	.134	.104	.146	.115	.089	.100	.080	.062	.058	.046	.037	.018	.015	.012	
3.0	.162	.116	.079	.139	.100	.069	.095	.070	.048	.055	.041	.028	.018	.013	.009	
4.0	.154	.102	.063	.132	.089	.055	.091	.062	.038	.053	.036	.023	.017	.012	.007	
5.0	.147	.092	.051	.126	.079	.044	.087	.056	.031	.050	.033	.019	.016	.011	.006	
6.0	.140	.083	.043	.121	.072	.037	.083	.051	.026	.048	.030	.016	.016	.010	.005	
7.0	.134	.076	.036	.115	.066	.032	.080	.046	.022	.046	.027	.013	.015	.009	.004	
8.0	.128	.071	.032	.110	.061	.027	.076	.043	.019	.044	.025	.012	.014	.008	.004	
9.0	.122	.066	.028	.105	.057	.024	.073	.040	.017	.042	.024	.010	.014	.008	.003	
10.0	.117	.062	.025	.100	.053	.022	.070	.038	.015	.041	.022	.009	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:King
 Test Date:2025-11-18

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=1.1055]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.16V I:0.7868A P:70.091W PF:0.4046 Freq:49.99Hz Lamp Flux:7489.1x1 lm										
NAME: LED PANEL LIGHT					TYPE:PALERMO			WEIGHT:		
SPEC.:4000K					DIM.: 595*595*30mm			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	20.1	21.5	20.3	21.7	21.9	19.9	21.4	20.2	21.6	21.8
3H	20.6	21.9	20.9	22.2	22.4	20.5	21.8	20.8	22.0	22.2
4H	20.7	21.9	21.0	22.2	22.4	20.5	21.7	20.8	22.0	22.2
6H	20.7	21.9	21.0	22.1	22.4	20.5	21.7	20.8	21.9	22.2
8H	20.7	21.8	21.1	22.1	22.4	20.5	21.7	20.9	21.9	22.2
12H	20.7	21.8	21.1	22.1	22.4	20.5	21.6	20.9	21.9	22.2
4H 2H	20.4	21.6	20.7	21.9	22.1	20.3	21.5	20.6	21.8	22.0
3H	21.0	22.1	21.4	22.4	22.7	20.9	21.9	21.2	22.2	22.5
4H	21.1	22.1	21.5	22.4	22.7	20.9	21.9	21.3	22.2	22.6
6H	21.2	22.1	21.6	22.4	22.8	21.0	21.9	21.4	22.3	22.6
8H	21.3	22.1	21.7	22.4	22.8	21.1	21.9	21.5	22.3	22.7
12H	21.3	22.0	21.7	22.4	22.8	21.1	21.9	21.6	22.3	22.7
8H 4H	21.1	21.9	21.5	22.2	22.6	20.9	21.7	21.3	22.1	22.5
6H	21.3	21.9	21.7	22.3	22.7	21.1	21.8	21.5	22.2	22.6
8H	21.4	22.0	21.8	22.4	22.8	21.2	21.8	21.7	22.2	22.7
12H	21.5	22.0	22.0	22.4	22.9	21.3	21.8	21.8	22.3	22.8
12H 4H	21.0	21.8	21.5	22.2	22.6	20.9	21.6	21.3	22.0	22.4
6H	21.3	21.8	21.7	22.3	22.7	21.1	21.7	21.6	22.1	22.6
8H	21.4	21.9	21.9	22.4	22.8	21.3	21.8	21.7	22.2	22.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.3				
1.5H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				
2.0H	+ 0.7 / - 0.8					+ 0.7 / - 0.7				

CIE Pub.117, 7489 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 7.0$)

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:King
 Test Date:2025-11-18

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=1.1055]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.16V I:0.7868A P:70.091W PF:0.4046 Freq:49.99Hz Lamp Flux:7489.1x1 lm		
NAME: LED PANEL LIGHT	TYPE: PALERMO	WEIGHT:
SPEC.: 4000K	DIM.: 595*595*30mm	SERIAL No.: 01
MFR.:	SUR.:	Shielding Angle:

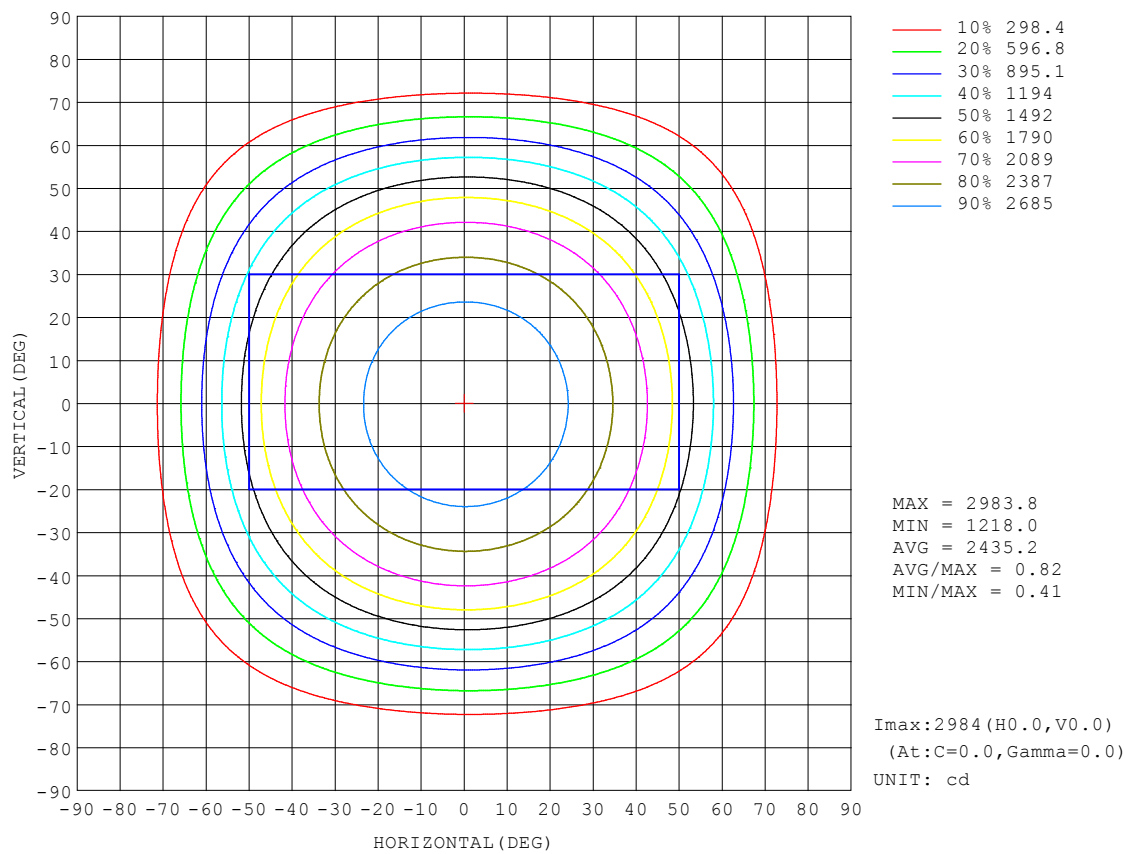
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	60	49	43	60	49	43	59	49	42	36
0.80	71	60	53	70	60	53	68	59	53	46
1.00	80	69	63	79	69	62	76	70	62	55
1.25	87	77	71	85	77	70	83	75	70	63
1.50	92	83	76	90	82	76	87	80	75	68
2.00	98	90	85	96	89	84	93	87	82	75
2.50	101	95	89	99	93	88	96	91	86	79
3.00	104	98	94	102	97	92	98	94	90	82
4.00	108	103	99	106	101	97	102	98	95	86
5.00	110	106	102	108	104	101	103	100	97	89
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: 2025-11-18

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=1.1055]
 Remarks:

ISOCANDELA DIAGRAM

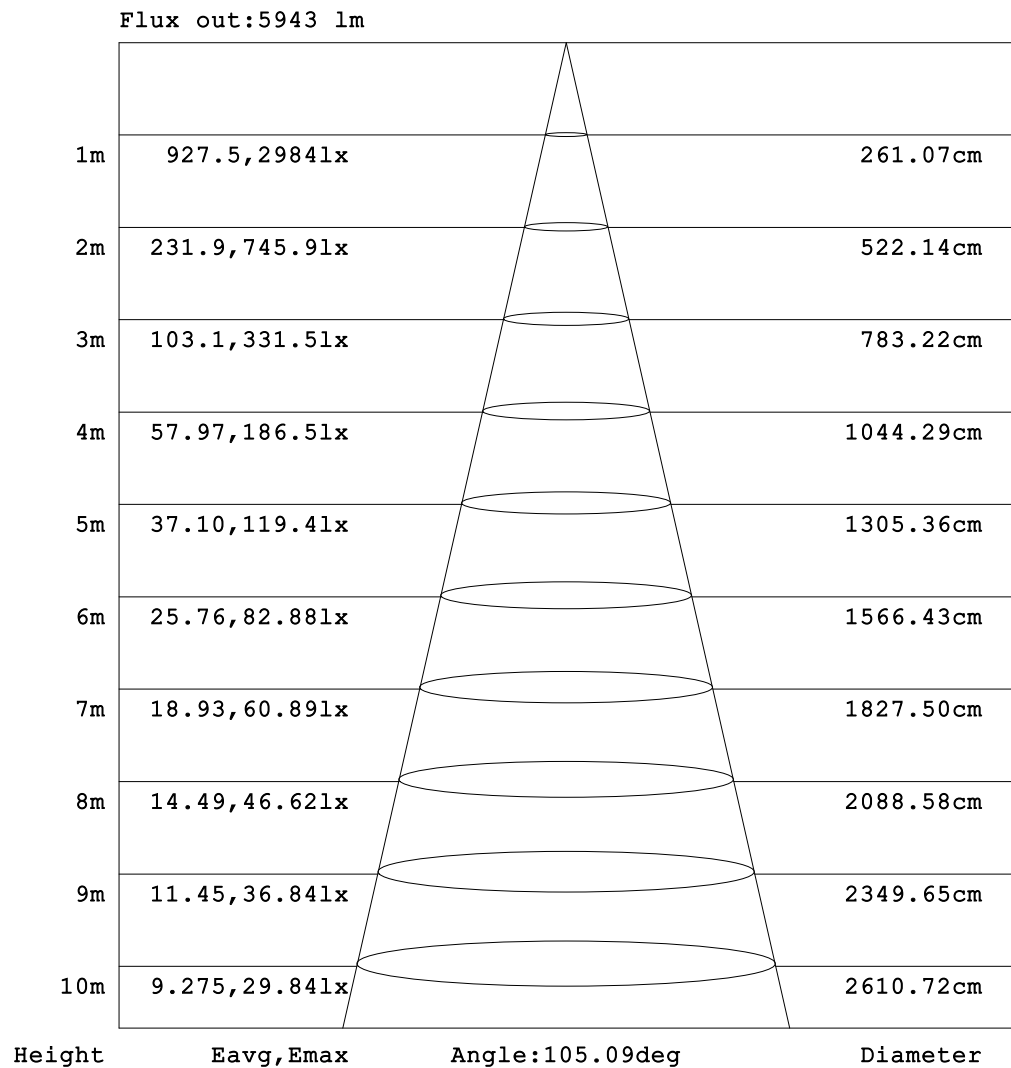
Test:U:220.16V I:0.7868A P:70.091W PF:0.4046 Freq:49.99Hz Lamp Flux:7489.1x1 lm		
NAME: LED PANEL LIGHT	TYPE:PALERMO	WEIGHT:
SPEC.:4000K	DIM.: 595*595*30mm	SERIAL No.:01
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG	γ Range: 0 - 120DEG
C Interval: 90.0DEG	γ Interval: 5.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
Temperature:25.3DEG	Humidity:65.0%
Operators:King	Test Distance:9.950m [K=1.1055]
Test Date:2025-11-18	Remarks:

AAI Figure

Test:U:220.16V I:0.7868A P:70.091W PF:0.4046 Freq:49.99Hz Lamp Flux:7489.1x1 lm		
NAME: LED PANEL LIGHT	TYPE: PALERMO	WEIGHT:
SPEC.: 4000K	DIM.: 595*595*30mm	SERIAL No.: 01
MFR.:	SUR.:	Shielding Angle:



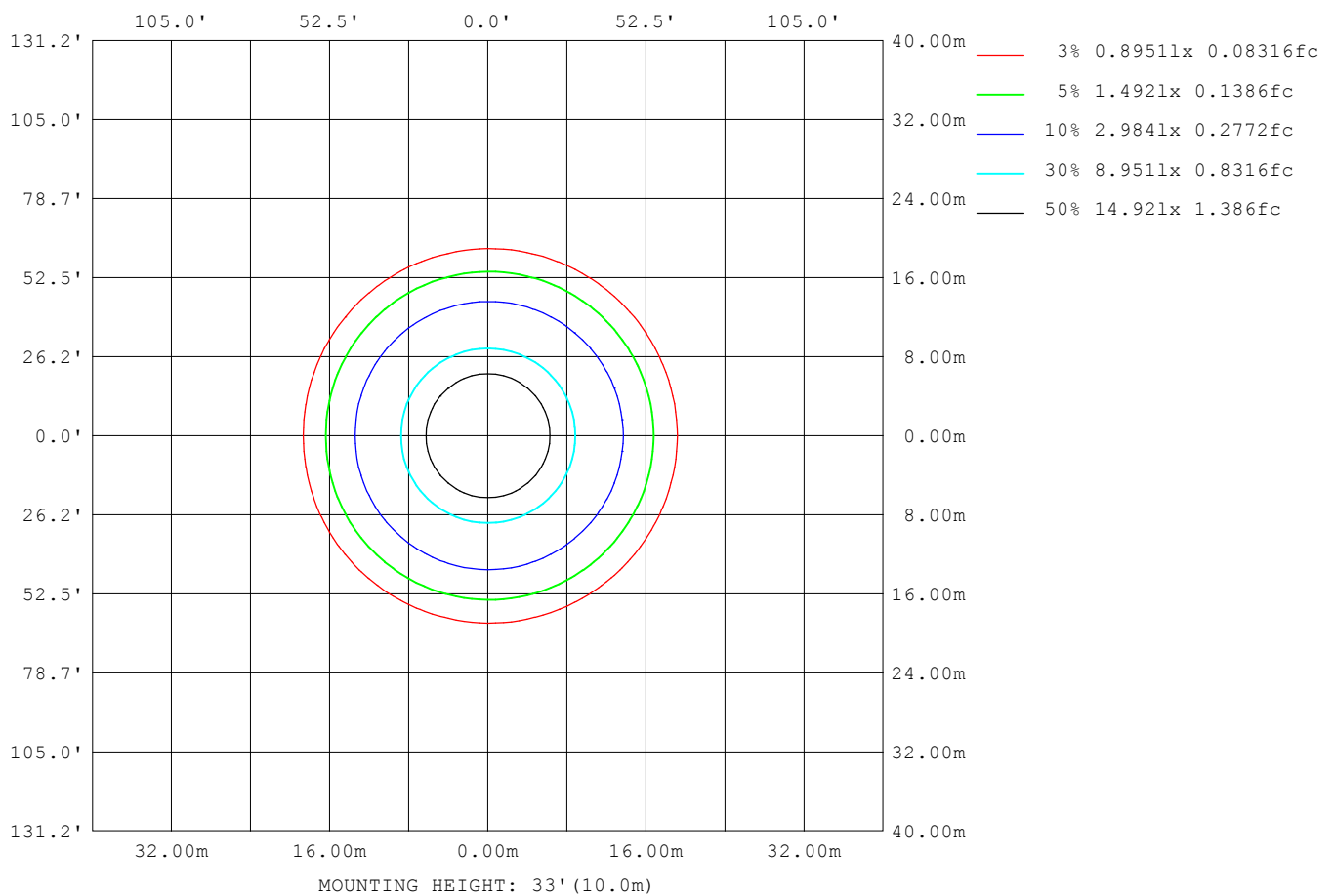
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: King
 Test Date: 2025-11-18

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=1.1055]
 Remarks:

ISOLUX DIAGRAM

Test:U:220.16V I:0.7868A P:70.091W PF:0.4046 Freq:49.99Hz Lamp Flux:7489.1x1 lm		
NAME: LED PANEL LIGHT	TYPE: PALERMO	WEIGHT:
SPEC.: 4000K	DIM.: 595*595*30mm	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: 2025-11-18

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=1.1055]
Remarks:

LED Avg.L Report

Test:U:220.16V I:0.7868A P:70.091W PF:0.4046 Freq:49.99Hz Lamp Flux:7489.1x1 lm		
NAME: LED PANEL LIGHT	TYPE:PALERMO	WEIGHT:
SPEC.:4000K	DIM.: 595*595*30mm	SERIAL No.:01
MFR.:	SUR.:	Shielding Angle:

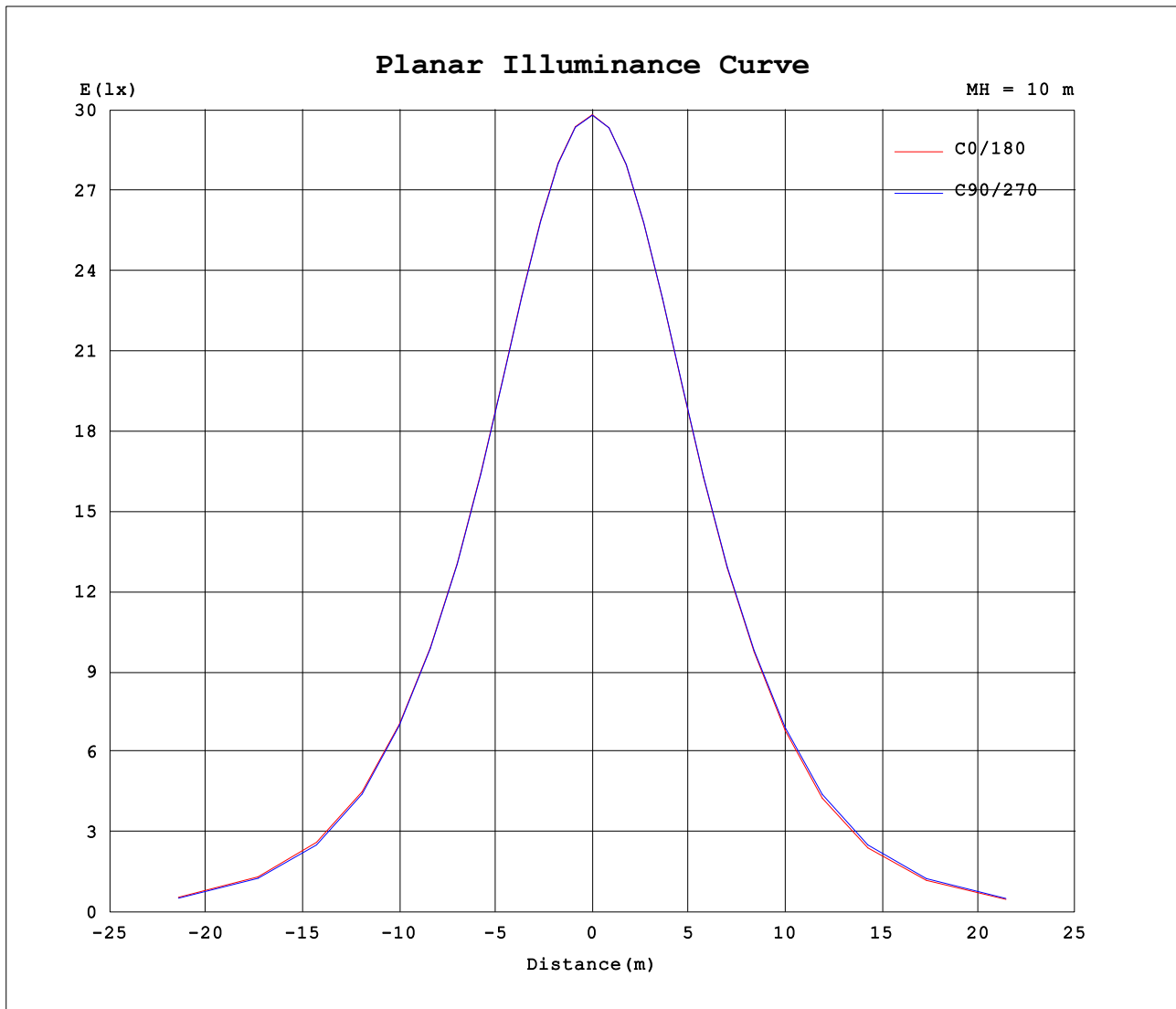
AvgL	cd/m2
L_0~180 (65) av	5533
L_0~180 (75) av	2214
L_0~180 (85) av	2478
L_90~270 (65) av	5562
L_90~270 (75) av	2200
L_90~270 (85) av	2556
L_45 (65) av	5526
L_45 (75) av	2191
L_45 (85) av	2510

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:King
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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=1.1055]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: King
Test Date: 2025-11-18

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=1.1055]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.16V I:0.7868A P:70.091W PF:0.4046 Freq:49.99Hz Lamp Flux:7489.1x1 lm		
NAME: LED PANEL LIGHT	TYPE: PALERMO	WEIGHT:
SPEC.: 4000K	DIM.: 595*595*30mm	SERIAL No.: 01
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	2983	2983	2983	2983															
5	2972	2972	2968	2970															
10	2935	2933	2926	2930															
15	2871	2867	2858	2863															
20	2781	2776	2765	2769															
25	2667	2664	2646	2652															
30	2531	2526	2504	2511															
35	2374	2369	2344	2354															
40	2201	2196	2167	2180															
45	1988	1977	1927	1959															
50	1701	1667	1607	1662															
55	1387	1335	1280	1335															
60	1065	1021	958	1008															
65	744	704	645	692															
70	435	407	351	393															
75	187	173	153	165															
80	124	120	109	119															
85	71.0	67.8	57.3	64.5															
90	7.09	4.06	2.42	2.54															
95	2.18	2.48	3.22	3.03															
100	2.97	3.30	4.30	4.07															
105	4.02	4.42	5.56	5.32															
110	5.14	5.56	6.81	6.59															
115	6.20	6.65	7.91	7.71															
120	7.21	7.68	8.96	8.84															
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: 2025-11-18

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=1.1055]
 Remarks: