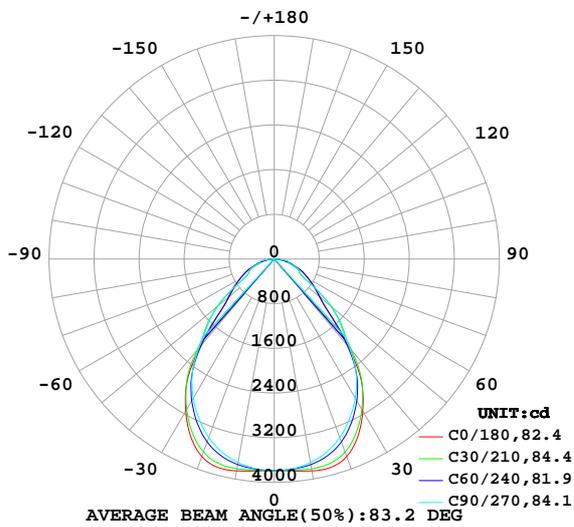


**LUMINAIRE PHOTOMETRIC TEST REPORT**

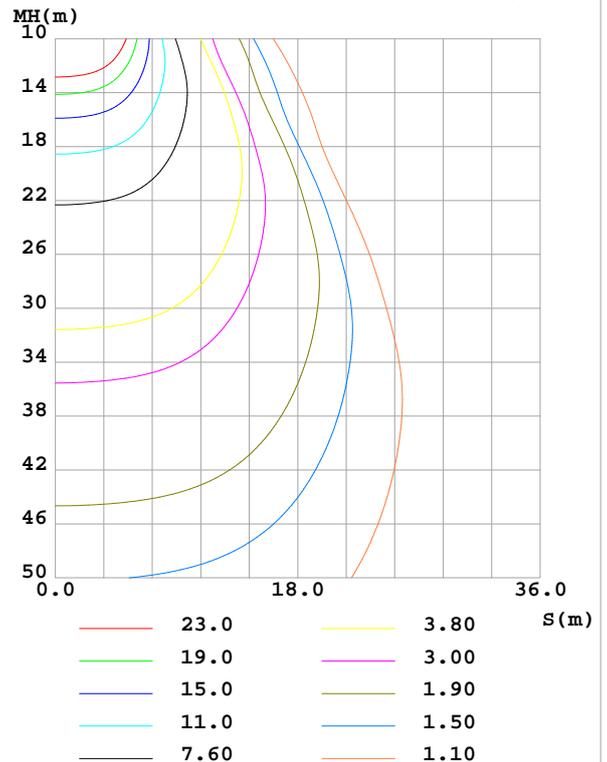
Test:U:231.08V I:0.2613A P:60.382W PF:0.9668 Freq:49.98Hz Lamp Flux:7465.99x1 lm		
NAME: PL-60120-M-CBST-120-2CCT(3000-4000) -UGR	TYPE:	WEIGHT:
SPEC.: PL-60120-M-CBST-120-2CCT(3000-4000) -UGR	DIM.: 595*1195	SERIAL No.:
MFR.: JT	SUR.: 0.595*1.195	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 123.65 lm/W			
MODEL	PL-60120-21M-WH16-SS-60W-02476	Imax(cd)	3869	S/MH(C0/180)	1.18
NOMINAL POWER(W)	60	LOR(%)	100.0	S/MH(C90/270)	1.15
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	7466.0	η UP, DN(C0-180)	0.0,50.0
NOMINAL FLUX(lm)	7465.99	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,50.0
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	229.8	η down(%)	100.0	CIBSE SHR MAX	1.15

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 90DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:JT  
Test Date:2025-11-09  
Stability time:0 s

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.494  
Humidity:65.0%  
Test Distance:9.180m [K=0.9913]  
Remarks: Stability time:0 s

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	3853	3775	3701	3775	3853	3775	3701	3775	0- 10	361.2	361.2	4.84,4.84
20	3763	3582	3401	3582	3763	3582	3401	3582	10- 20	1048	1409	18.9,18.9
30	3147	3022	2877	3022	3147	3022	2877	3022	20- 30	1531	2940	39.4,39.4
40	2050	2074	2087	2074	2050	2074	2087	2074	30- 40	1623	4564	61.1,61.1
50	1071	1185	1289	1185	1071	1185	1289	1185	40- 50	1211	5774	77.3,77.3
60	696.5	615.4	552.9	615.4	696.5	615.4	552.9	615.4	50- 60	769.7	6544	87.7,87.7
70	396.5	386.1	380.6	386.1	396.5	386.1	380.6	386.1	60- 70	510.1	7054	94.5,94.5
80	162.0	204.1	252.8	204.1	162.0	204.1	252.8	204.1	70- 80	299.2	7353	98.5,98.5
90	0	0.2103	3.383	0.2103	0	0.2103	3.383	0.2103	80- 90	112.6	7466	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): 5227.3 lm

%lum = 70.0%

%lamp = 70.0%

Conical surface Flux(130deg): 6820.5 lm

%lum = 91.4%

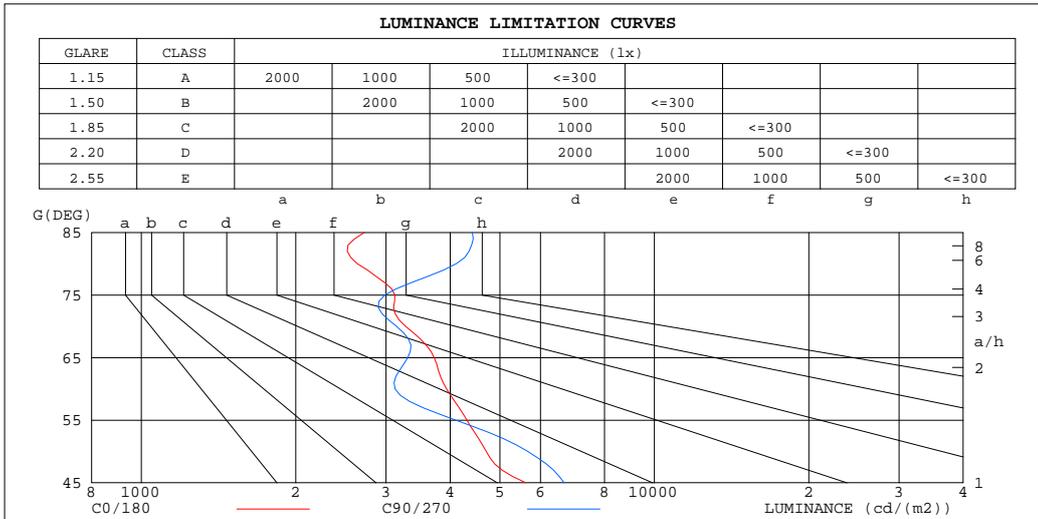
%lamp = 91.4%

C Range: 0 - 90DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:JT  
 Test Date:2025-11-09  
 Stability time:0 s

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.494  
 Humidity:65.0%  
 Test Distance:9.180m [K=0.9913]  
 Remarks: Stability time:0 s

**LUMINANCE LIMITATION CURVES**

Test:U:231.08V I:0.2613A P:60.382W PF:0.9668 Freq:49.98Hz Lamp Flux:7465.99x1 lm		
NAME: PL-60120-M-CBST-120-2CCT(3000-4000) -UGR	TYPE:	WEIGHT:
SPEC.: PL-60120-M-CBST-120-2CCT(3000-4000) -UGR	DIM.: 595*1195	SERIAL No.:
MFR.: JT	SUR.: 0.595*1.195	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	2723	4419
80	2636	4114
75	3122	2985
70	3275	3144
65	3723	3306
60	3935	3124
55	4312	4102
50	4704	5666
45	5621	6669

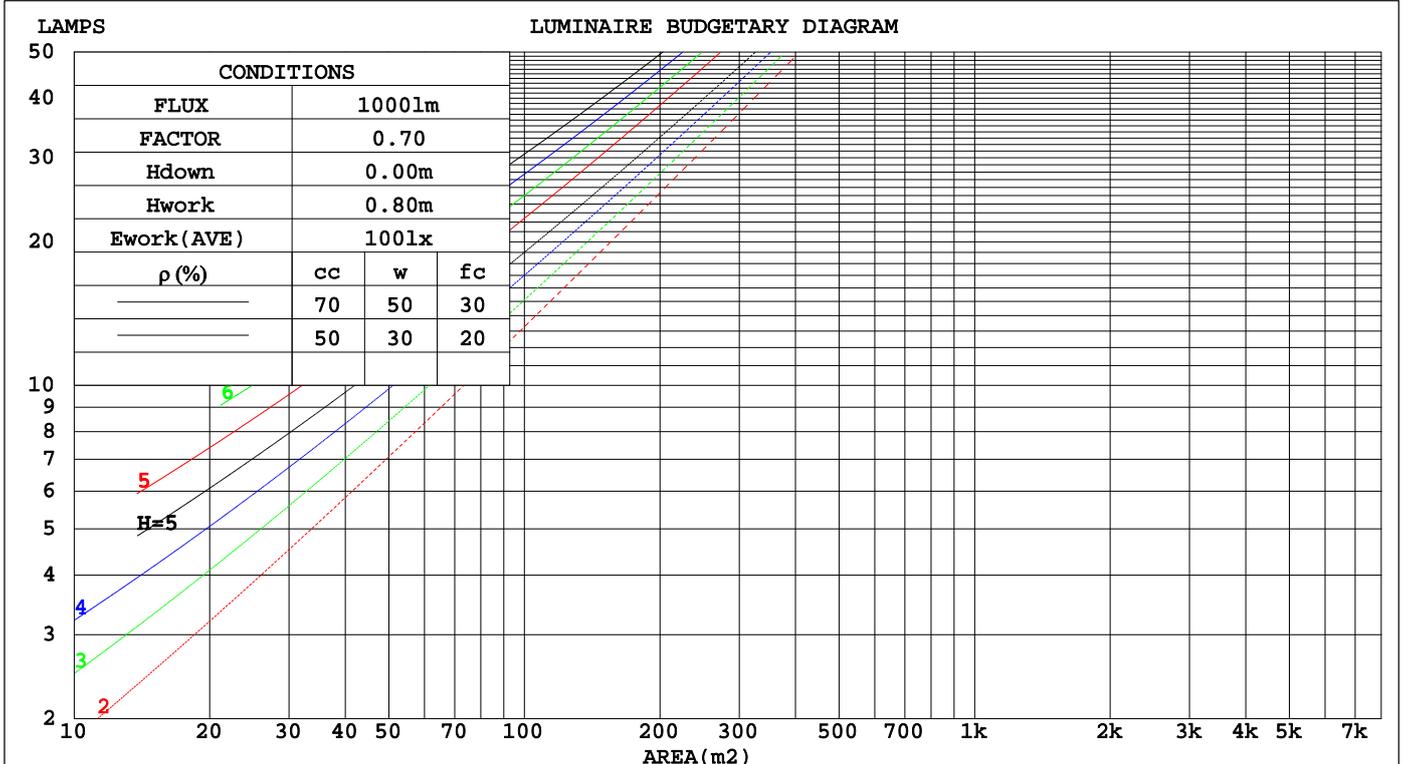
C Range: 0 - 90DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:JT  
 Test Date:2025-11-09  
 Stability time:0 s

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.494  
 Humidity:65.0%  
 Test Distance:9.180m [K=0.9913]  
 Remarks: Stability time:0 s

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:231.08V I:0.2613A P:60.382W PF:0.9668 Freq:49.98Hz Lamp Flux:7465.99x1 lm		
NAME: PL-60120-M-CBST-120-2CCT(3000-4000) -UGR	TYPE:	WEIGHT:
SPEC.: PL-60120-M-CBST-120-2CCT(3000-4000) -UGR	DIM.: 595*1195	SERIAL No.:
MFR.: JT	SUR.: 0.595*1.195	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	
ρpw	0															
ρfc	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	1.03	.99	1.04	1.01	.98	.00	.97	.95	.96	.94	.92	.92	.91	.89	.87
2.0	.95	.89	.84	.93	.88	.83	.90	.85	.81	.86	.83	.79	.84	.80	.78	.76
3.0	.85	.78	.72	.84	.77	.72	.81	.75	.71	.78	.73	.69	.76	.72	.68	.66
4.0	.77	.69	.63	.76	.68	.63	.73	.67	.62	.71	.66	.61	.69	.64	.61	.59
5.0	.70	.62	.56	.69	.61	.56	.67	.60	.55	.65	.59	.55	.63	.58	.54	.52
6.0	.64	.56	.50	.63	.55	.50	.61	.54	.49	.60	.54	.49	.58	.53	.49	.47
7.0	.59	.51	.45	.58	.50	.45	.56	.50	.45	.55	.49	.44	.54	.48	.44	.42
8.0	.54	.46	.41	.53	.46	.41	.52	.45	.41	.51	.45	.40	.50	.44	.40	.38
9.0	.50	.42	.37	.49	.42	.37	.48	.42	.37	.47	.41	.37	.46	.41	.37	.35
10.0	.46	.39	.34	.46	.39	.34	.45	.38	.34	.44	.38	.34	.43	.38	.34	.32



C Range: 0 - 90DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:JT  
 Test Date:2025-11-09  
 Stability time:0 s

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.494  
 Humidity:65.0%  
 Test Distance:9.180m [K=0.9913]  
 Remarks: Stability time:0 s

WEC AND CCEC

Test:U:231.08V I:0.2613A P:60.382W PF:0.9668 Freq:49.98Hz Lamp Flux:7465.99x1 lm		
NAME: PL-60120-M-CBST-120-2CCT(3000-4000) -UGR	TYPE:	WEIGHT:
SPEC.: PL-60120-M-CBST-120-2CCT(3000-4000) -UGR	DIM.: 595*1195	SERIAL No.:
MFR.: JT	SUR.: 0.595*1.195	Shielding Angle:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.264	.150	.048	.257	.146	.047	.244	.140	.045	.232	.134	.043	.221	.128	.041	
2.0	.249	.136	.042	.243	.134	.041	.232	.129	.040	.221	.124	.039	.212	.120	.038	
3.0	.233	.124	.037	.227	.122	.037	.217	.118	.036	.208	.114	.035	.200	.111	.034	
4.0	.217	.113	.033	.212	.111	.033	.204	.108	.032	.196	.105	.032	.188	.102	.031	
5.0	.203	.103	.030	.199	.102	.030	.191	.099	.029	.184	.097	.029	.177	.095	.028	
6.0	.190	.095	.027	.186	.094	.027	.180	.092	.027	.173	.090	.026	.167	.088	.026	
7.0	.179	.088	.025	.175	.087	.025	.169	.086	.025	.163	.084	.024	.158	.082	.024	
8.0	.168	.082	.023	.165	.081	.023	.160	.080	.023	.155	.078	.023	.150	.077	.022	
9.0	.159	.077	.021	.156	.076	.021	.151	.075	.021	.147	.074	.021	.142	.072	.021	
10.0	.150	.072	.020	.148	.071	.020	.144	.070	.020	.139	.069	.020	.135	.068	.020	

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	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	.177	.157	.138	.152	.134	.119	.104	.092	.082	.060	.053	.048	.019	.017	.015	
2.0	.167	.132	.103	.143	.114	.089	.098	.079	.062	.056	.046	.036	.018	.015	.012	
3.0	.157	.114	.080	.135	.098	.069	.093	.068	.048	.053	.040	.029	.017	.013	.009	
4.0	.149	.100	.063	.128	.087	.055	.088	.060	.039	.051	.035	.023	.016	.012	.008	
5.0	.141	.089	.051	.121	.077	.045	.084	.054	.031	.048	.032	.019	.016	.010	.006	
6.0	.134	.081	.043	.115	.070	.037	.080	.049	.026	.046	.029	.016	.015	.009	.005	
7.0	.128	.074	.036	.110	.064	.031	.076	.045	.022	.044	.026	.013	.014	.009	.004	
8.0	.122	.068	.031	.105	.059	.027	.073	.041	.019	.042	.024	.011	.014	.008	.004	
9.0	.116	.063	.027	.100	.055	.024	.069	.038	.017	.040	.023	.010	.013	.007	.003	
10.0	.111	.059	.024	.096	.051	.021	.066	.036	.015	.039	.021	.009	.013	.007	.003	

C Range: 0 - 90DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:JT  
 Test Date:2025-11-09  
 Stability time:0 s

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.494  
 Humidity:65.0%  
 Test Distance:9.180m [K=0.9913]  
 Remarks: Stability time:0 s

UGR(Unified Glare Rating) Table

Test:U:231.08V I:0.2613A P:60.382W PF:0.9668 Freq:49.98Hz Lamp Flux:7465.99x1 lm		
NAME: PL-60120-M-CBST-120-2CCT(3000-4000) -UGR	TYPE:	WEIGHT:
SPEC.: PL-60120-M-CBST-120-2CCT(3000-4000) -UGR	DIM.: 595*1195	SERIAL No.:
MFR.: JT	SUR.: 0.595*1.195	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	14.6	15.9	14.9	16.1	16.3	14.6	15.9	14.8	16.1	16.3
3H	15.6	16.8	15.9	17.0	17.3	15.6	16.8	15.8	17.0	17.2
4H	16.0	17.2	16.3	17.4	17.6	16.0	17.1	16.3	17.4	17.6
6H	16.4	17.5	16.7	17.7	18.0	16.6	17.6	16.9	17.9	18.2
8H	16.5	17.5	16.8	17.8	18.1	16.9	17.9	17.2	18.2	18.5
12H	16.6	17.6	16.9	17.9	18.2	17.1	18.1	17.4	18.4	18.7
4H 2H	14.9	16.1	15.2	16.3	16.6	14.9	16.1	15.2	16.3	16.6
3H	16.1	17.1	16.4	17.4	17.7	16.2	17.2	16.5	17.5	17.7
4H	16.6	17.5	17.0	17.9	18.2	16.7	17.7	17.1	18.0	18.3
6H	17.2	18.0	17.6	18.3	18.7	17.5	18.3	17.8	18.6	19.0
8H	17.4	18.2	17.8	18.5	18.9	17.8	18.6	18.2	18.9	19.3
12H	17.6	18.2	18.0	18.6	19.0	18.1	18.8	18.6	19.2	19.6
8H 4H	16.9	17.6	17.3	18.0	18.4	17.0	17.7	17.4	18.1	18.5
6H	17.7	18.3	18.1	18.7	19.1	17.8	18.4	18.2	18.8	19.3
8H	18.0	18.6	18.5	19.0	19.5	18.3	18.8	18.7	19.2	19.7
12H	18.3	18.8	18.8	19.2	19.7	18.7	19.2	19.2	19.6	20.1
12H 4H	16.9	17.6	17.3	18.0	18.4	17.0	17.7	17.4	18.1	18.5
6H	17.8	18.3	18.2	18.7	19.2	17.9	18.4	18.3	18.9	19.3
8H	18.2	18.7	18.6	19.1	19.6	18.4	18.9	18.9	19.3	19.8

Variations with the observer position at spacings(CIE Pub.117):		
S = 1.0H	+ 0.4 / - 0.5	+ 0.3 / - 0.4
1.5H	+ 0.4 / - 0.4	+ 0.3 / - 0.2
2.0H	+ 0.7 / - 0.6	+ 0.8 / - 0.7

CIE Pub.117, 7466 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 7.0)  
Area: 0.354 m2

C Range: 0 - 90DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:JT  
Test Date:2025-11-09  
Stability time:0 s

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.494  
Humidity:65.0%  
Test Distance:9.180m [K=0.9913]  
Remarks: Stability time:0 s

**UTILIZATION FACTORS TABLE**

Test:U:231.08V I:0.2613A P:60.382W PF:0.9668 Freq:49.98Hz Lamp Flux:7465.99x1 lm		
NAME: PL-60120-M-CBST-120-2CCT(3000-4000) -UGR	TYPE:	WEIGHT:
SPEC.: PL-60120-M-CBST-120-2CCT(3000-4000) -UGR	DIM.: 595*1195	SERIAL No.:
MFR.: JT	SUR.: 0.595*1.195	Shielding Angle:

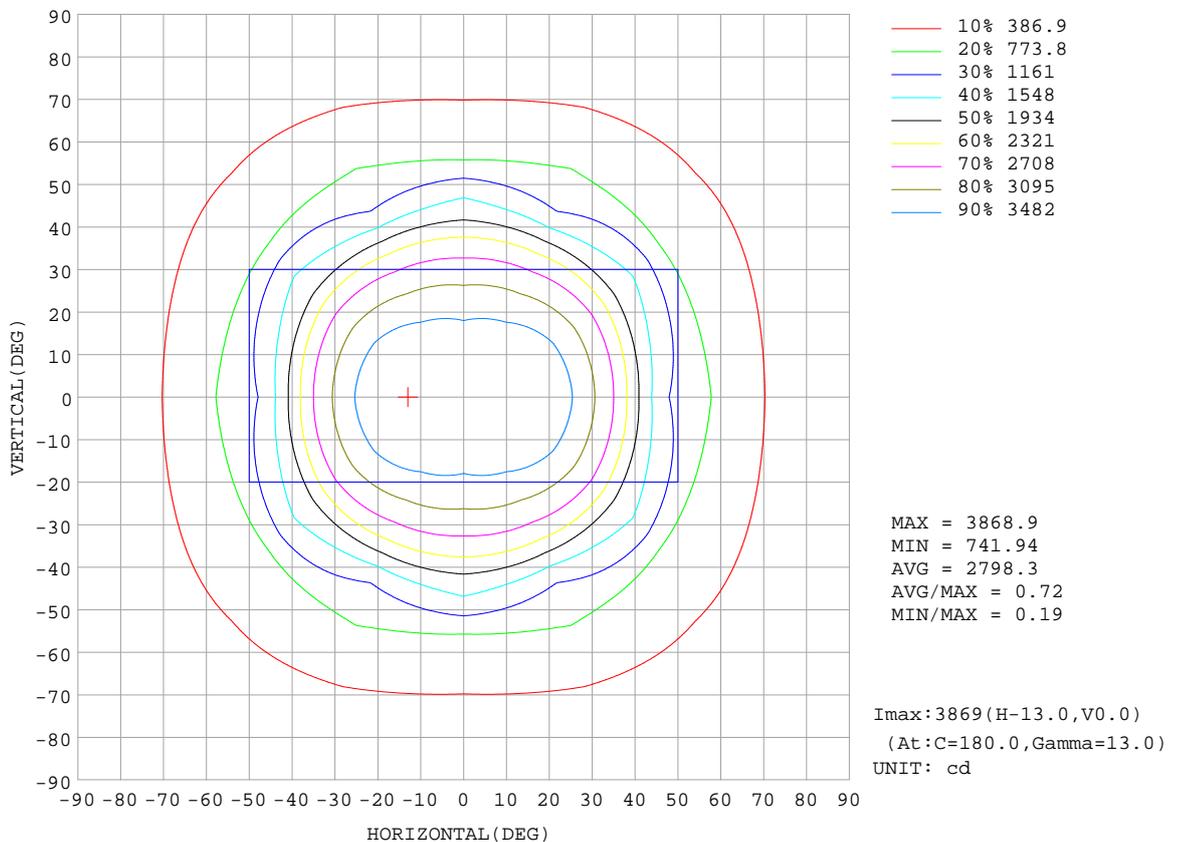
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	67	58	52	67	57	52	66	57	51	46
0.80	77	67	61	76	67	61	74	66	61	55
1.00	84	75	69	83	75	69	81	75	68	62
1.25	90	82	76	89	81	76	87	80	75	69
1.50	95	87	81	93	86	80	90	84	79	73
2.00	100	93	88	98	92	87	95	90	86	79
2.50	103	97	92	101	95	91	98	93	89	82
3.00	106	100	96	104	99	94	100	96	92	85
4.00	109	104	100	107	103	99	103	99	96	88
5.00	111	107	104	108	105	102	104	101	99	90
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 90DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:JT  
 Test Date:2025-11-09  
 Stability time:0 s

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.494  
 Humidity:65.0%  
 Test Distance:9.180m [K=0.9913]  
 Remarks: Stability time:0 s

**ISOCANDELA DIAGRAM**

Test:U:231.08V I:0.2613A P:60.382W PF:0.9668 Freq:49.98Hz Lamp Flux:7465.99x1 lm		
NAME: PL-60120-M-CBST-120-2CCT(3000-4000) -UGR	TYPE:	WEIGHT:
SPEC.: PL-60120-M-CBST-120-2CCT(3000-4000) -UGR	DIM.: 595*1195	SERIAL No.:
MFR.: JT	SUR.: 0.595*1.195	Shielding Angle:



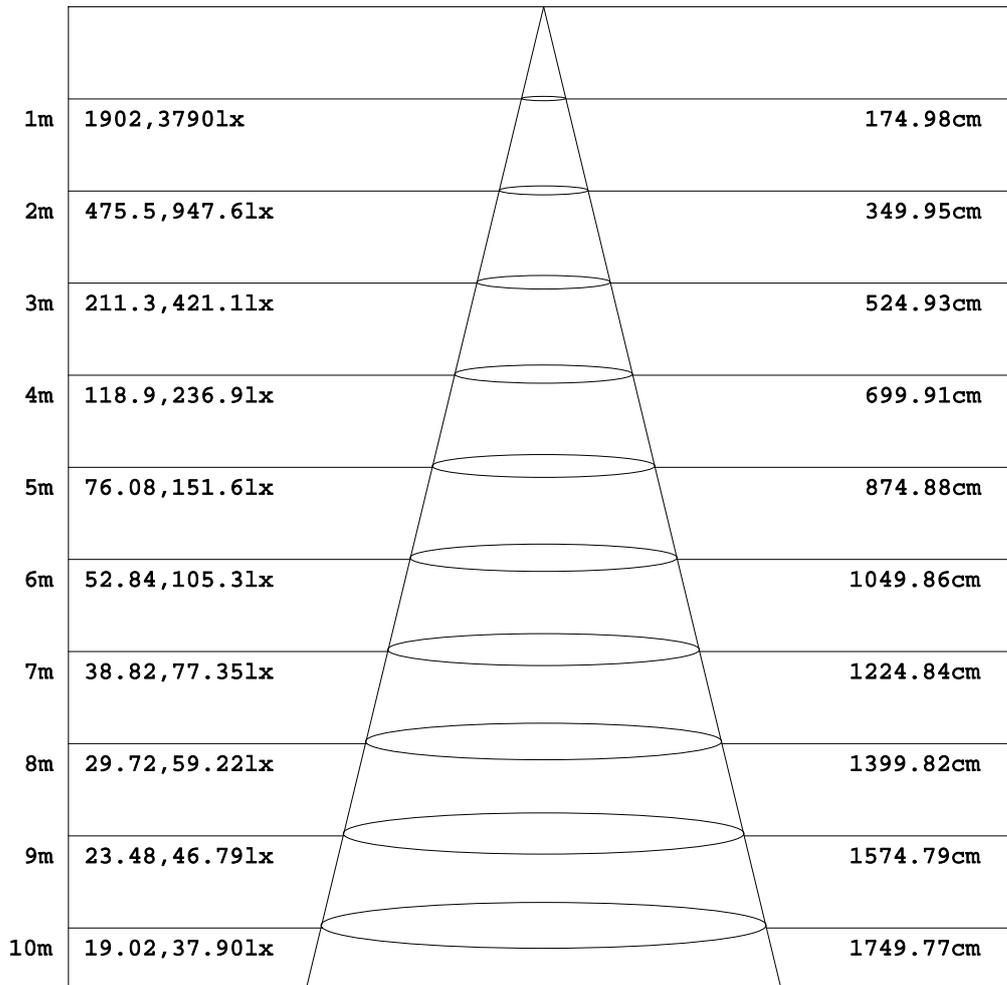
C Range: 0 - 90DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:JT  
 Test Date:2025-11-09  
 Stability time:0 s

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.494  
 Humidity:65.0%  
 Test Distance:9.180m [K=0.9913]  
 Remarks: Stability time:0 s

**AAI Figure**

Test:U:231.08V I:0.2613A P:60.382W PF:0.9668 Freq:49.98Hz Lamp Flux:7465.99x1 lm		
NAME: PL-60120-M-CBST-120-2CCT(3000-4000) -UGR	TYPE:	WEIGHT:
SPEC.: PL-60120-M-CBST-120-2CCT(3000-4000) -UGR	DIM.: 595*1195	SERIAL No.:
MFR.: JT	SUR.: 0.595*1.195	Shielding Angle:

Flux out:4845 lm



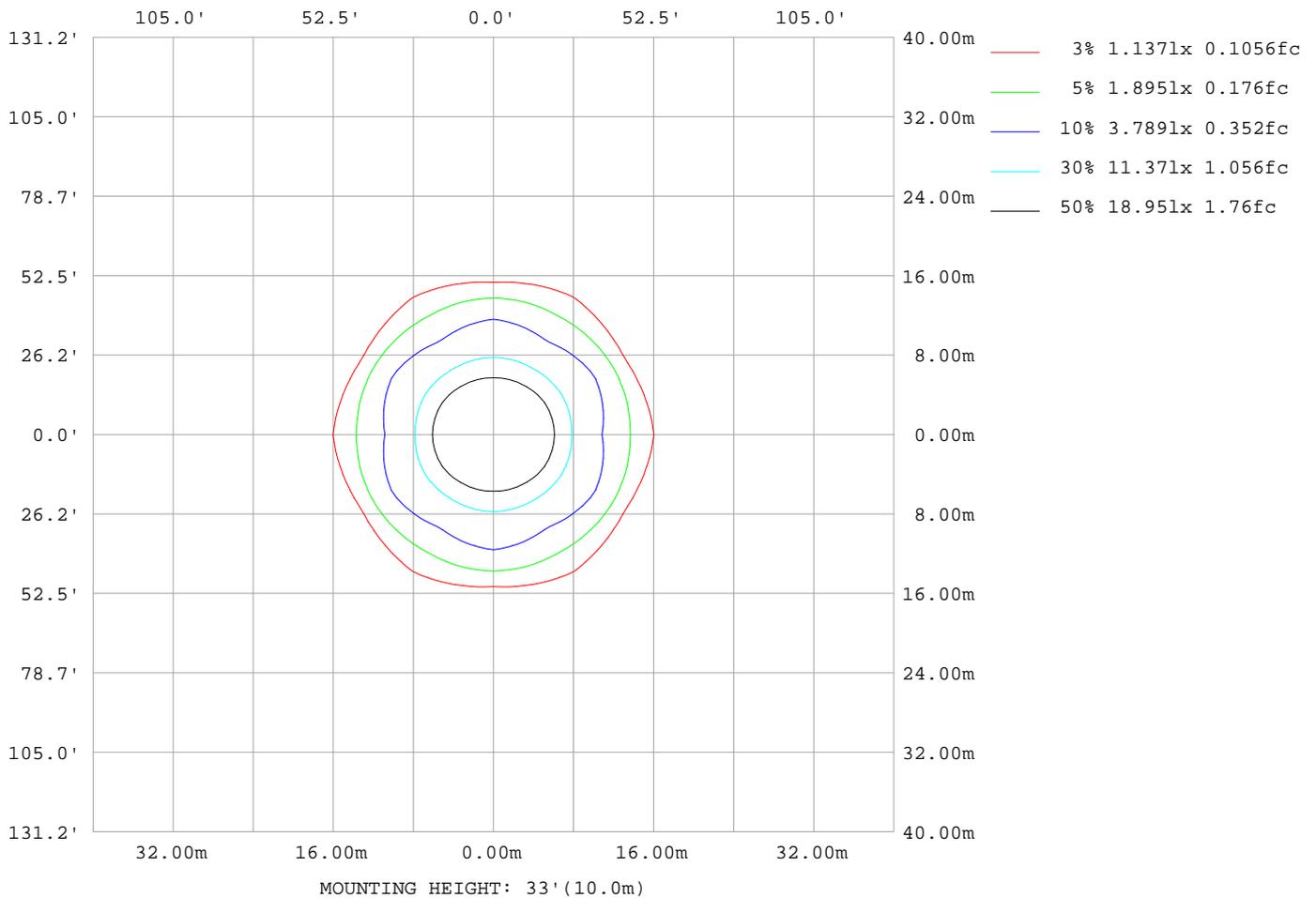
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 90DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:JT  
Test Date:2025-11-09  
Stability time:0 s

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.494  
Humidity:65.0%  
Test Distance:9.180m [K=0.9913]  
Remarks: Stability time:0 s

**ISOLUX DIAGRAM**

Test:U:231.08V I:0.2613A P:60.382W PF:0.9668 Freq:49.98Hz Lamp Flux:7465.99x1 lm		
NAME: PL-60120-M-CBST-120-2CCT(3000-4000) -UGR	TYPE:	WEIGHT:
SPEC.: PL-60120-M-CBST-120-2CCT(3000-4000) -UGR	DIM.: 595*1195	SERIAL No.:
MFR.: JT	SUR.: 0.595*1.195	Shielding Angle:



C Range: 0 - 90DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:JT  
 Test Date:2025-11-09  
 Stability time:0 s

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.494  
 Humidity:65.0%  
 Test Distance:9.180m [K=0.9913]  
 Remarks: Stability time:0 s

LED Avg.L Report

Test:U:231.08V I:0.2613A P:60.382W PF:0.9668 Freq:49.98Hz Lamp Flux:7465.99x1 lm		
NAME: PL-60120-M-CBST-120-2CCT(3000-4000) -UGR	TYPE:	WEIGHT:
SPEC.: PL-60120-M-CBST-120-2CCT(3000-4000) -UGR	DIM.: 595*1195	SERIAL No.:
MFR.: JT	SUR.: 0.595*1.195	Shielding Angle:

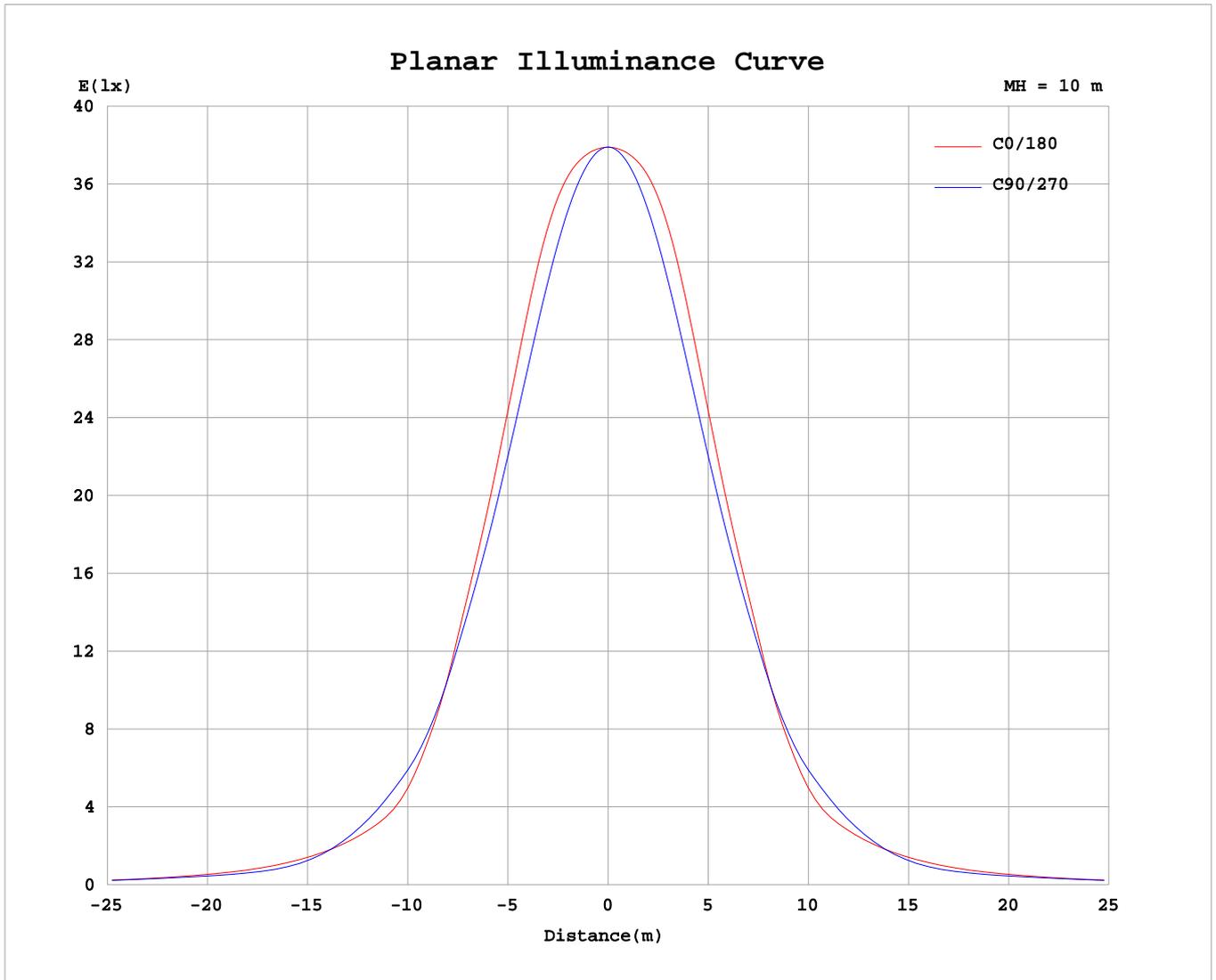
AvgL	cd/m2
L_0~180(65)av	3723
L_0~180(75)av	3122
L_0~180(85)av	2723
L_90~270(65)av	3306
L_90~270(75)av	2985
L_90~270(85)av	4418
L_45(65)av	3501
L_45(75)av	3003
L_45(85)av	3421

Standard: GB/T 29293-2012

C Range: 0 - 90DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:JT  
 Test Date:2025-11-09  
 Stability time:0 s

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.494  
 Humidity:65.0%  
 Test Distance:9.180m [K=0.9913]  
 Remarks: Stability time:0 s

Planar Illuminance Curve



C Range: 0 - 90DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators: JT  
Test Date: 2025-11-09  
Stability time: 0 s

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.494  
Humidity: 65.0%  
Test Distance: 9.180m [K=0.9913]  
Remarks: Stability time: 0 s

