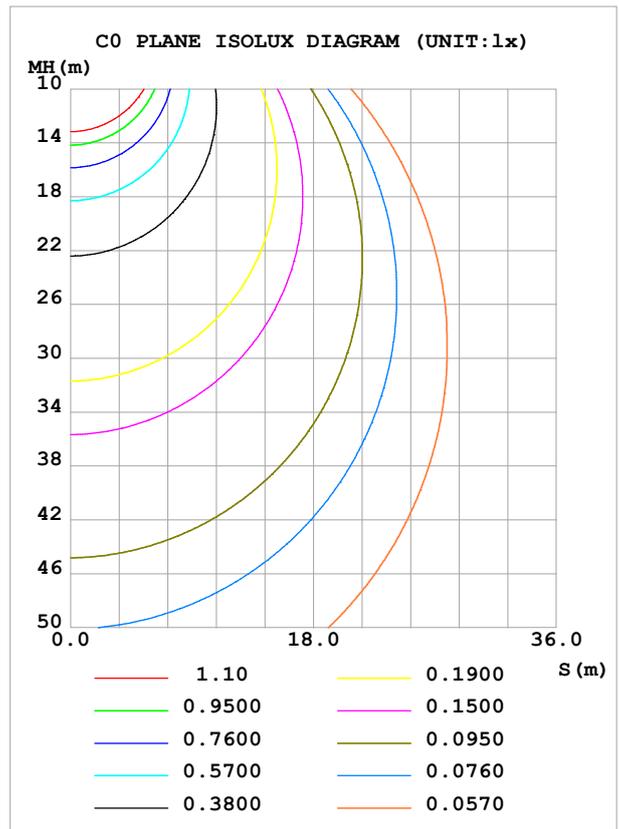
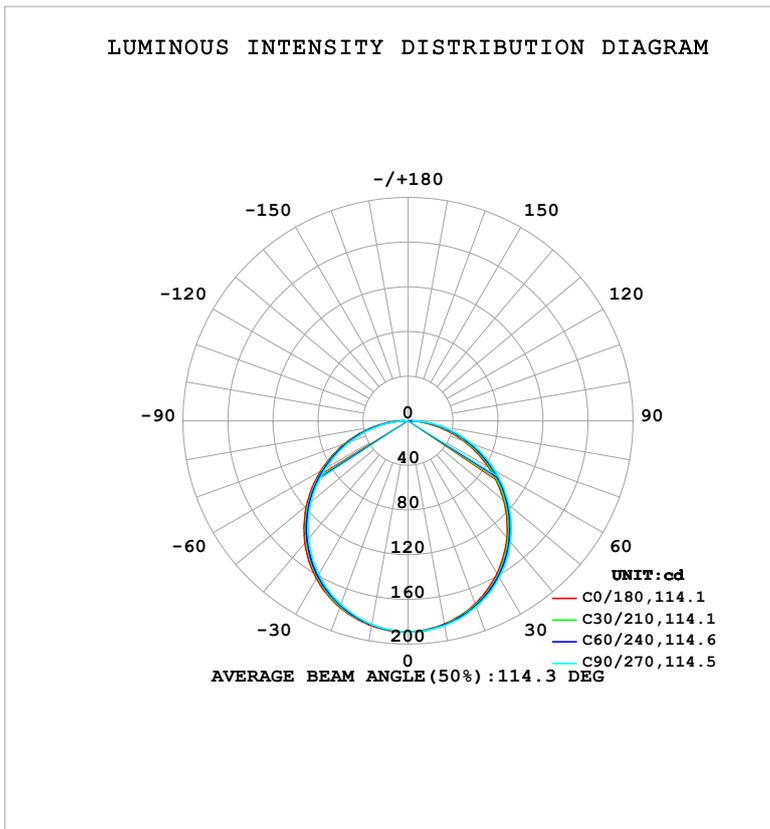


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME :	TYPE :	WEIGHT :
SPEC. :	DIM. :	SERIAL No. :
MFR. :	SUR. : 229*30MM	Shielding Angle :

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	CLT0.3700110W BL SMART	I _{max} (cd)	189.0	S/MH (C0/180)	1.28
NOMINAL POWER (W)	10	LOR (%)	100.0	S/MH (C90/270)	1.25
RATED VOLTAGE (V)	48	TOTAL FLUX (lm)	560.48	η UP, DN (C0-180)	0.0, 50.4
NOMINAL FLUX (lm)	560.481	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 49.6
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	48	η down (%)	100.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: FG
 Test Date: 2025-11-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.493
 Humidity: 65.0%
 Test Distance: 6.980m [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	184.8	185.4	186.1	186.5	186.4	185.8	185.1	184.8	0- 10	17.88	17.88	3.19,3.19
20	174.4	175.6	177.0	177.7	177.6	176.3	175.0	174.3	10- 20	51.25	69.12	12.3,12.3
30	158.0	160.1	162.1	163.1	163.1	161.1	158.8	158.1	20- 30	77.90	147.0	26.2,26.2
40	136.6	139.0	141.6	142.8	142.7	140.2	137.5	136.4	30- 40	94.26	241.3	43.1,43.1
50	110.9	113.8	116.8	118.2	117.9	115.2	112.4	110.7	40- 50	98.35	339.6	60.6,60.6
60	82.21	85.61	89.08	90.43	89.64	87.12	84.19	82.17	50- 60	89.97	429.6	76.6,76.6
70	52.33	56.18	59.83	61.15	59.88	57.71	54.96	52.64	60- 70	70.89	500.5	89.3,89.3
80	23.27	27.13	30.85	32.01	30.41	28.70	26.08	23.72	70- 80	44.56	545.1	97.2,97.2
90	0.3640	1.317	3.799	4.638	2.927	2.224	1.324	0.5727	80- 90	15.42	560.5	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): 290.74 lm

%lum = 51.9%

%lamp = 51.9%

Conical surface Flux(130deg): 467.98 lm

%lum = 83.5%

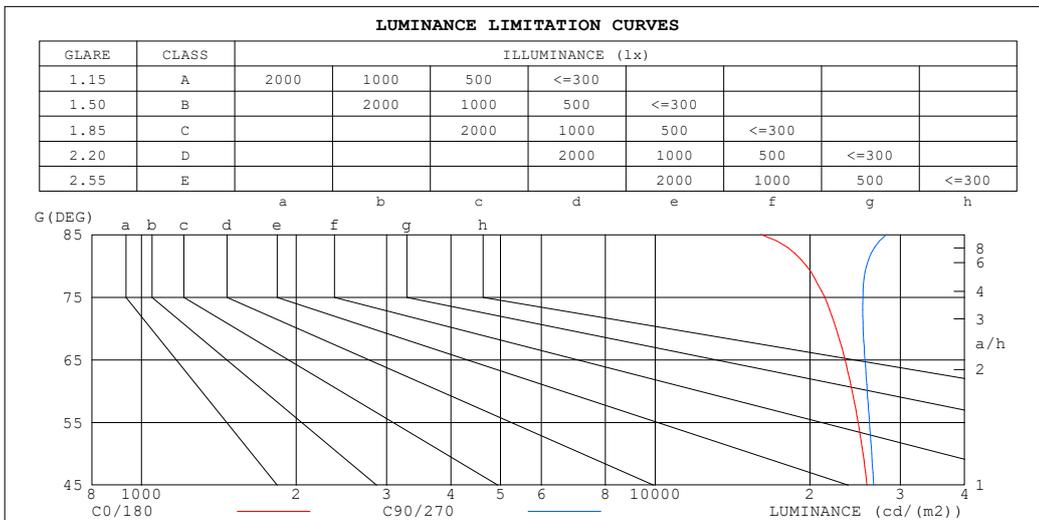
%lamp = 83.5%

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:FG
 Test Date:2025-11-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.493
 Humidity:65.0%
 Test Distance:6.980m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

NAME :	TYPE :	WEIGHT :
SPEC. :	DIM. :	SERIAL No. :
MFR. :	SUR. : 229*30MM	Shielding Angle :



LUMINANCE cd/ (m2)		
G (DEG)	C0/180	C90/270
85	16079	28215
80	19704	25788
75	21363	25372
70	22495	25391
65	23421	25592
60	24171	25859
55	24820	26128
50	25370	26383
45	25811	26618

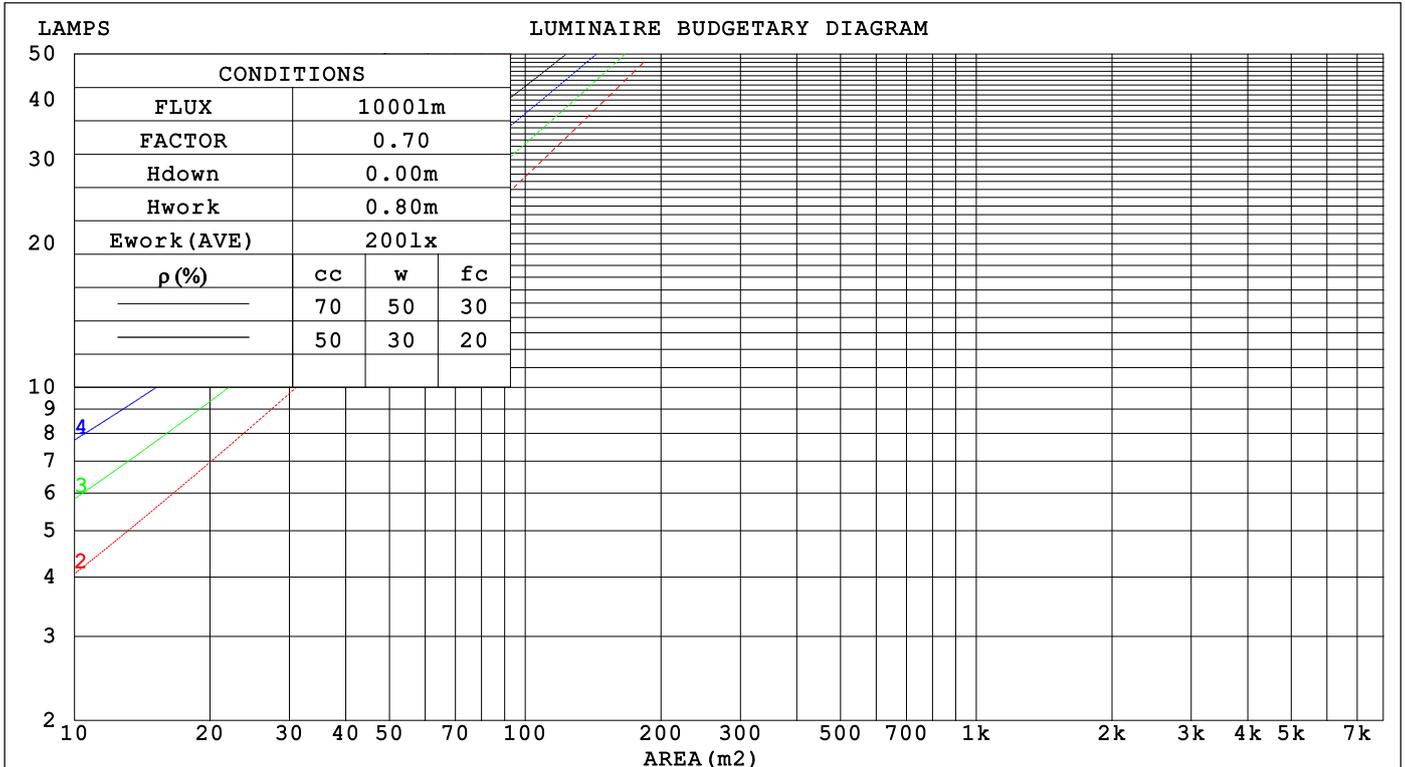
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: FG
 Test Date: 2025-11-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.493
 Humidity: 65.0%
 Test Distance: 6.980m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 229*30MM	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	1.00
1.0	1.03	.99	.95	1.01	.97	.93	.97	.93	.90	.93	.90	.87	.89	.87	.85	.82
2.0	.89	.82	.76	.88	.81	.75	.84	.78	.74	.81	.76	.72	.78	.74	.70	.68
3.0	.78	.70	.63	.77	.69	.63	.74	.67	.61	.71	.65	.60	.68	.63	.59	.57
4.0	.69	.60	.53	.68	.59	.53	.65	.58	.52	.63	.57	.51	.61	.55	.51	.48
5.0	.62	.53	.46	.61	.52	.45	.58	.51	.45	.56	.50	.44	.55	.49	.44	.42
6.0	.56	.46	.40	.55	.46	.40	.53	.45	.39	.51	.44	.39	.49	.43	.39	.36
7.0	.50	.41	.35	.49	.41	.35	.48	.40	.35	.46	.40	.34	.45	.39	.34	.32
8.0	.46	.37	.31	.45	.37	.31	.44	.36	.31	.43	.36	.31	.41	.35	.31	.29
9.0	.42	.34	.28	.41	.33	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.25	.38	.31	.25	.37	.30	.25	.36	.30	.25	.35	.29	.25	.23



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: FG
 Test Date: 2025-11-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.493
 Humidity: 65.0%
 Test Distance: 6.980m [K=1.0000]
 Remarks:

WEC AND CCEC

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 229*30MM	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	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.325	.185	.058	.318	.181	.058	.304	.175	.056	.292	.168	.054	.281	.163	.052	
2.0	.301	.165	.051	.295	.163	.050	.283	.157	.049	.272	.153	.048	.262	.148	.047	
3.0	.277	.147	.044	.271	.145	.044	.261	.141	.043	.251	.138	.042	.242	.134	.041	
4.0	.254	.132	.039	.249	.130	.039	.240	.127	.038	.231	.124	.037	.223	.121	.037	
5.0	.234	.119	.035	.230	.118	.034	.222	.115	.034	.214	.113	.034	.207	.111	.033	
6.0	.217	.109	.031	.213	.107	.031	.206	.105	.031	.199	.103	.030	.192	.101	.030	
7.0	.201	.100	.028	.198	.099	.028	.191	.097	.028	.185	.095	.028	.179	.093	.027	
8.0	.188	.092	.026	.185	.091	.026	.179	.089	.026	.173	.088	.025	.168	.086	.025	
9.0	.176	.085	.024	.173	.084	.024	.168	.083	.024	.163	.082	.023	.158	.080	.023	
10.0	.165	.079	.022	.163	.079	.022	.158	.077	.022	.153	.076	.022	.149	.075	.022	

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	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	.181	.156	.133	.155	.134	.115	.106	.092	.079	.061	.053	.046	.020	.017	.015	
2.0	.174	.132	.097	.149	.114	.084	.102	.079	.058	.059	.046	.034	.019	.015	.011	
3.0	.166	.114	.073	.142	.099	.064	.098	.069	.045	.056	.040	.026	.018	.013	.009	
4.0	.158	.101	.058	.136	.087	.050	.093	.061	.035	.054	.036	.021	.017	.012	.007	
5.0	.151	.091	.047	.129	.079	.041	.089	.055	.029	.052	.032	.017	.017	.011	.006	
6.0	.143	.082	.039	.123	.071	.034	.085	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.136	.076	.033	.117	.065	.029	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.130	.070	.028	.112	.060	.025	.077	.042	.018	.045	.025	.010	.015	.008	.003	
9.0	.124	.065	.025	.106	.056	.022	.074	.040	.015	.043	.023	.009	.014	.008	.003	
10.0	.118	.060	.022	.102	.052	.019	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3 °C
 Operators:FG
 Test Date:2025-11-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.493
 Humidity:65.0%
 Test Distance:6.980m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

NAME:	TYPE:					WEIGHT:				
SPEC.:	DIM.:					SERIAL No.:				
MFR.:	SUR.: 229*30MM					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	21.8	23.4	22.1	23.6	23.8	22.0	23.6	22.3	23.8	24.0
3H	23.4	24.8	23.7	25.0	25.3	23.8	25.2	24.1	25.4	25.7
4H	24.0	25.4	24.3	25.6	25.9	24.5	25.9	24.8	26.1	26.4
6H	24.5	25.8	24.9	26.1	26.4	25.2	26.5	25.5	26.7	27.0
8H	24.7	25.9	25.0	26.2	26.5	25.4	26.7	25.8	27.0	27.3
12H	24.8	26.0	25.1	26.3	26.6	25.7	26.9	26.0	27.2	27.5
4H 2H	22.5	23.8	22.8	24.1	24.4	22.7	24.0	23.0	24.3	24.5
3H	24.2	25.4	24.6	25.7	26.0	24.6	25.8	24.9	26.1	26.4
4H	25.0	26.1	25.4	26.5	26.8	25.5	26.6	25.9	26.9	27.2
6H	25.7	26.6	26.1	27.0	27.4	26.3	27.3	26.7	27.6	28.0
8H	25.9	26.8	26.3	27.2	27.6	26.6	27.5	27.0	27.9	28.3
12H	26.0	26.9	26.4	27.2	27.7	26.9	27.7	27.3	28.1	28.5
8H 4H	25.4	26.3	25.8	26.7	27.1	25.8	26.7	26.2	27.1	27.4
6H	26.2	27.0	26.6	27.4	27.8	26.8	27.5	27.2	27.9	28.4
8H	26.5	27.2	27.0	27.6	28.1	27.2	27.9	27.7	28.3	28.8
12H	26.7	27.3	27.2	27.8	28.3	27.6	28.2	28.1	28.6	29.1
12H 4H	25.4	26.3	25.9	26.7	27.1	25.8	26.6	26.2	27.0	27.4
6H	26.3	27.0	26.8	27.4	27.9	26.8	27.5	27.3	27.9	28.4
8H	26.7	27.3	27.1	27.7	28.2	27.3	27.9	27.8	28.4	28.8
Variations with the observer position at spacings(CIE Pub.117):										
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					+ 0.1 / - 0.3				

CIE Pub.117, 560.5 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.0)
 Area: 0.00687 m2

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:FG
 Test Date:2025-11-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.493
 Humidity:65.0%
 Test Distance:6.980m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 229*30MM	Shielding Angle:

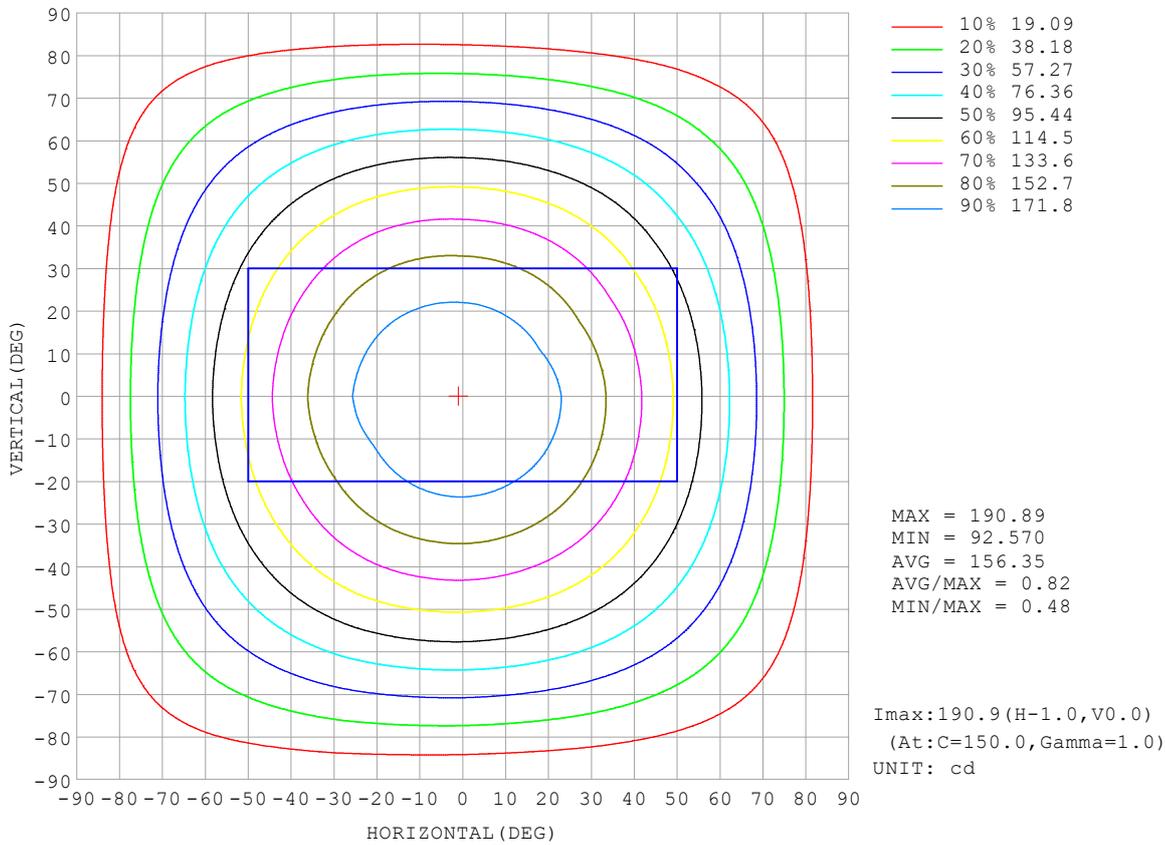
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) k(RI) x RCR = 5									
k = 0.60	57	45	38	56	45	38	55	44	38	31
0.80	67	55	47	66	54	47	64	54	47	40
1.00	75	64	56	74	63	56	71	65	55	48
1.25	82	71	64	81	71	64	78	69	63	55
1.50	87	77	70	85	76	69	82	74	68	60
2.00	94	85	78	92	84	78	89	82	76	68
2.50	98	90	84	96	89	83	92	86	81	72
3.00	101	94	89	99	93	87	95	90	85	77
4.00	106	100	95	103	98	93	99	94	91	82
5.00	108	103	99	106	101	97	101	97	94	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: FG
 Test Date: 2025-11-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.493
 Humidity: 65.0%
 Test Distance: 6.980m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

NAME :	TYPE :	WEIGHT :
SPEC. :	DIM. :	SERIAL No. :
MFR. :	SUR. : 229*30MM	Shielding Angle :



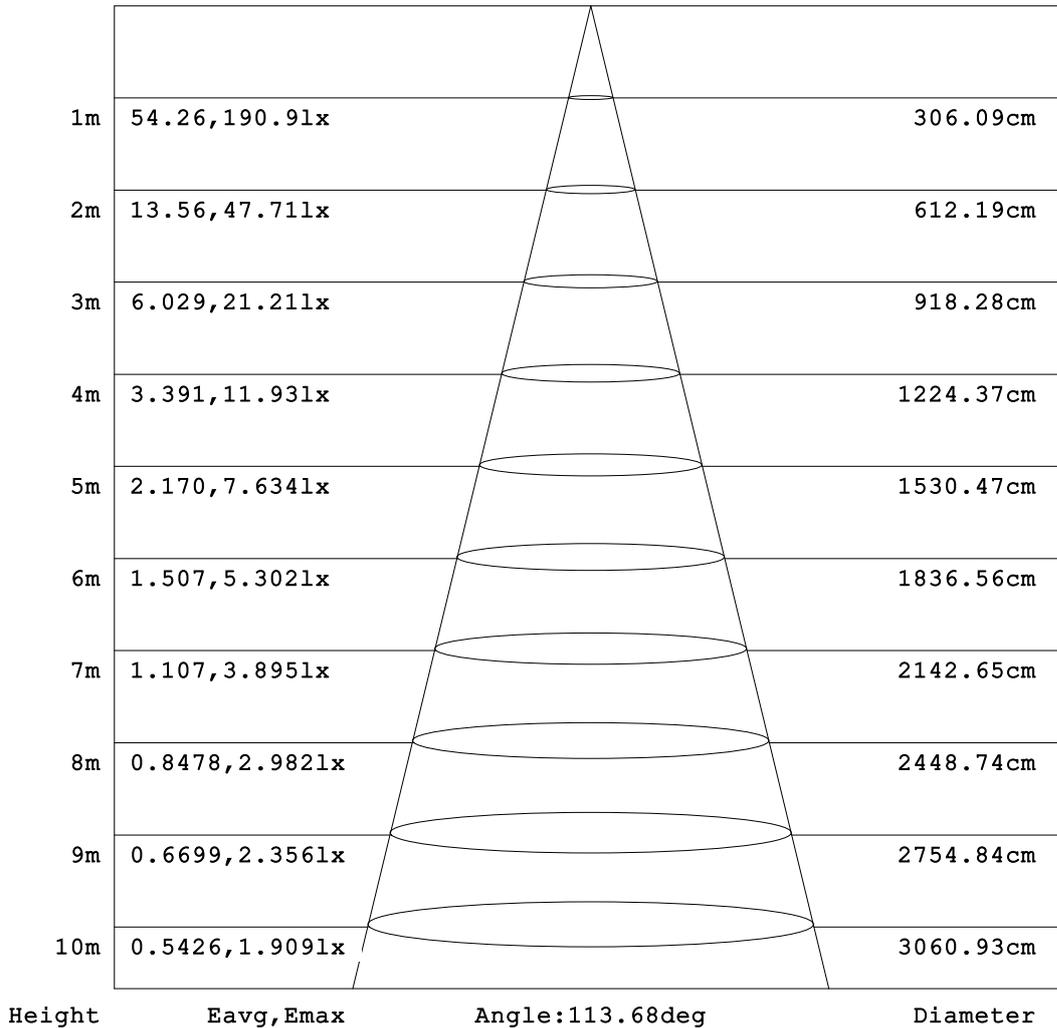
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: FG
 Test Date: 2025-11-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.493
 Humidity: 65.0%
 Test Distance: 6.980m [K=1.0000]
 Remarks:

AAI Figure

NAME :	TYPE :	WEIGHT :
SPEC. :	DIM. :	SERIAL No. :
MFR. :	SUR. : 229*30MM	Shielding Angle :

Flux out:404.2 lm



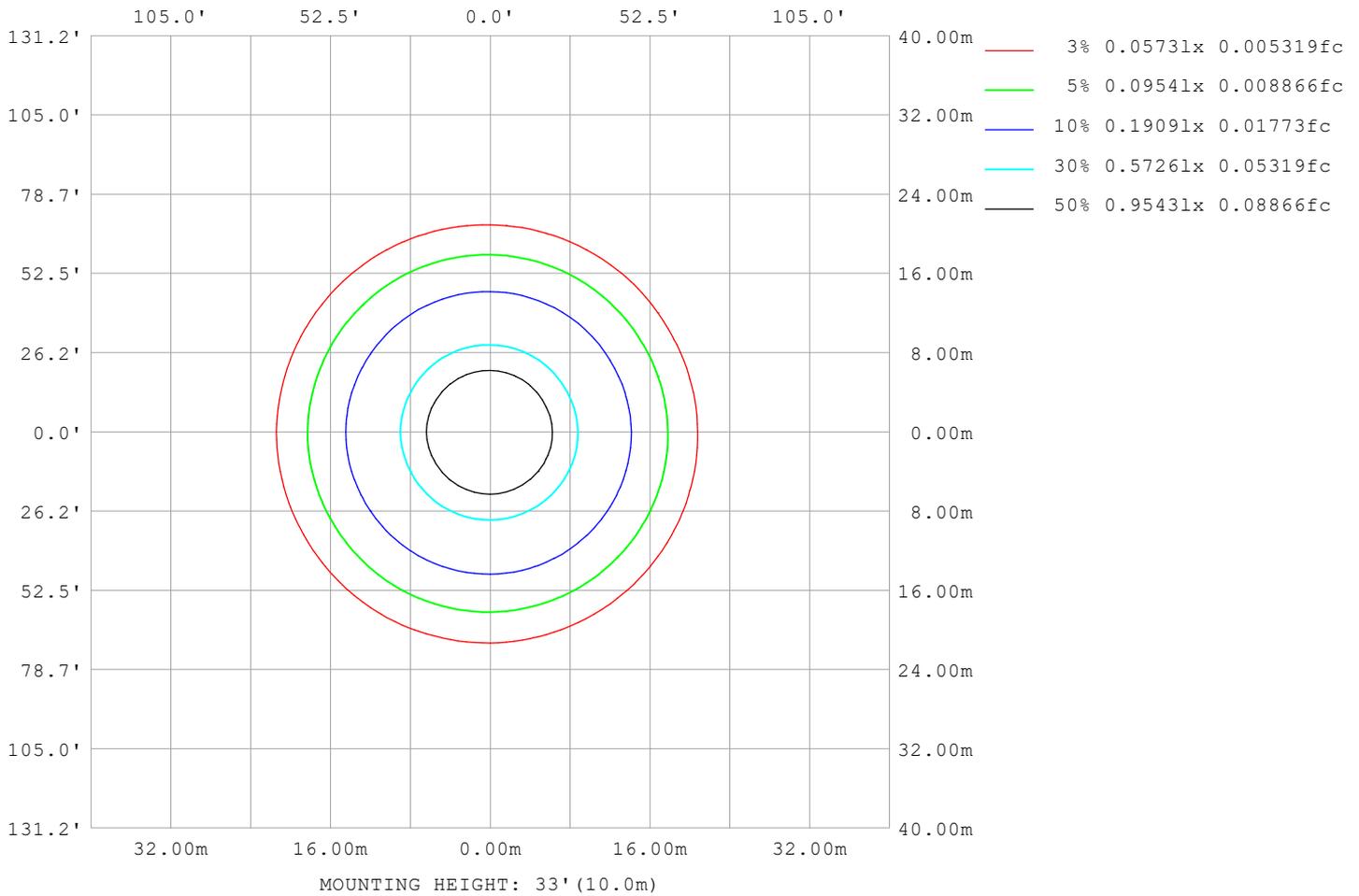
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:FG
 Test Date:2025-11-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.493
 Humidity:65.0%
 Test Distance:6.980m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 229*30MM	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: FG
 Test Date: 2025-11-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.493
 Humidity: 65.0%
 Test Distance: 6.980m [K=1.0000]
 Remarks:

LED Avg.L Report

NAME :	TYPE :	WEIGHT :
SPEC. :	DIM. :	SERIAL No. :
MFR. :	SUR. : 229*30MM	Shielding Angle :

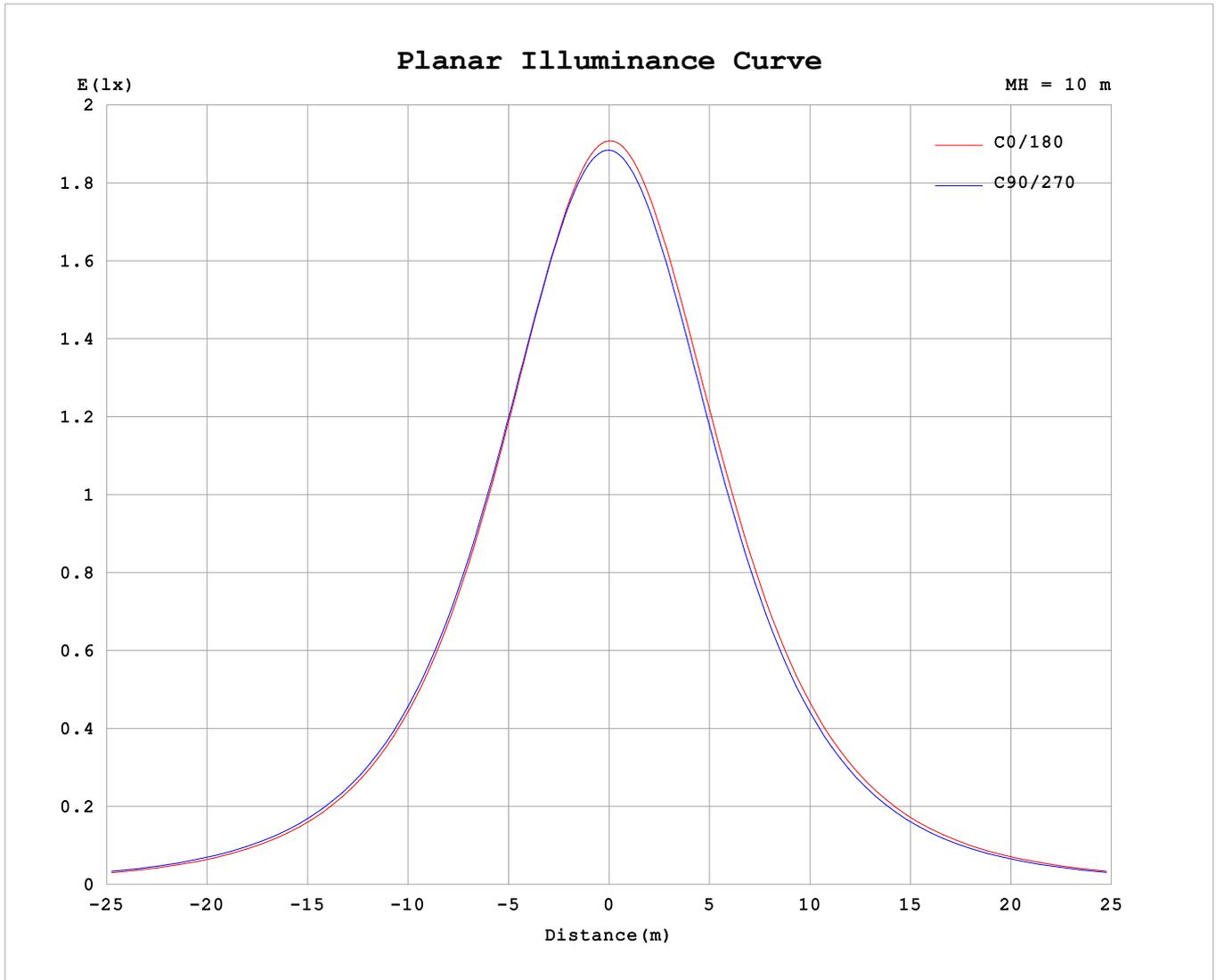
AvgL	cd/m2
L_0~180 (65) av	24479
L_0~180 (75) av	23232
L_0~180 (85) av	21554
L_90~270 (65) av	24811
L_90~270 (75) av	24069
L_90~270 (85) av	24370
L_45 (65) av	24690
L_45 (75) av	23792
L_45 (85) av	23411

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:FG
 Test Date:2025-11-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.493
 Humidity:65.0%
 Test Distance:6.980m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: FG
 Test Date: 2025-11-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.493
 Humidity: 65.0%
 Test Distance: 6.980m [K=1.0000]
 Remarks:

