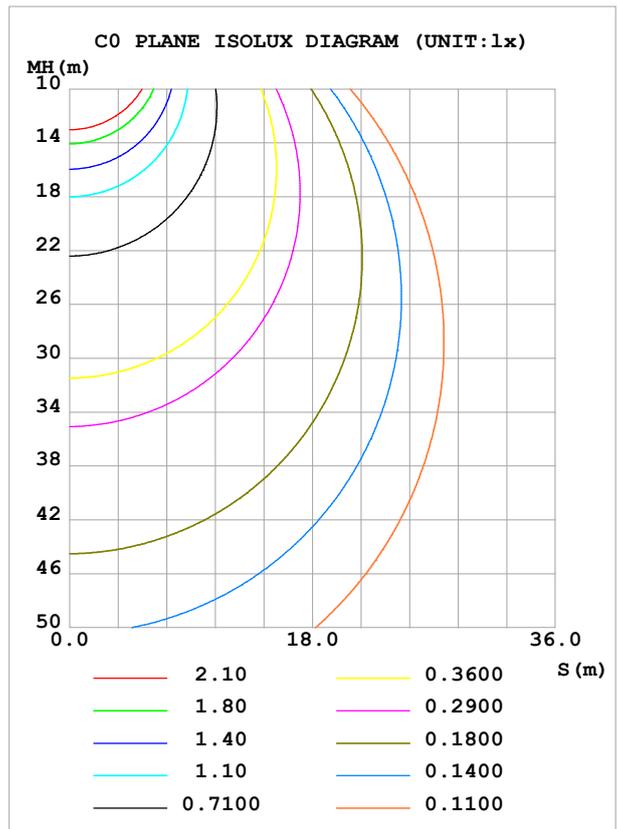
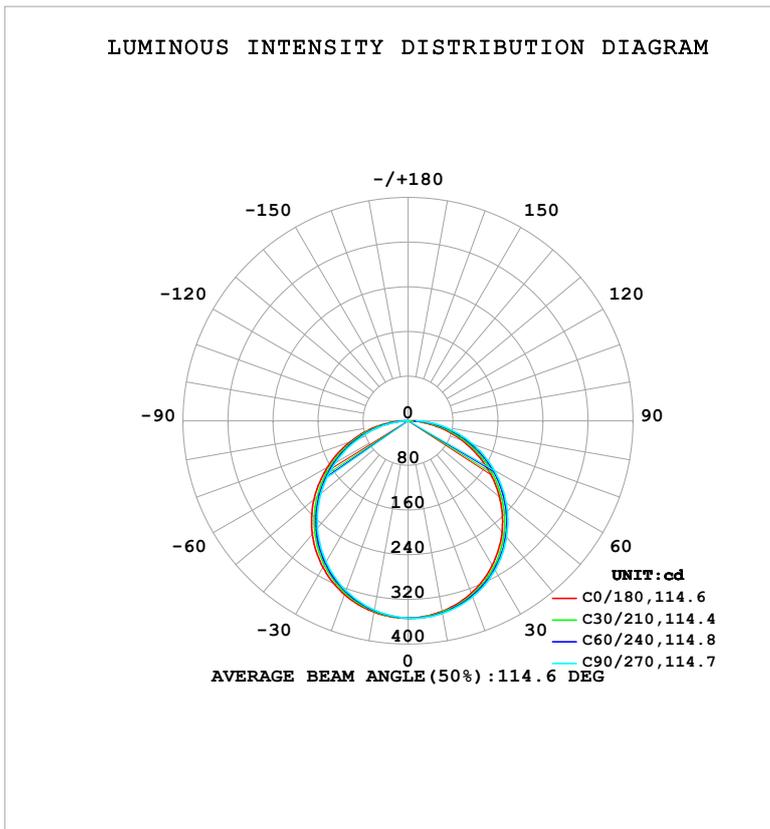


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME :	TYPE :	WEIGHT :
SPEC. :	DIM. :	SERIAL No. :
MFR. :	SUR. : 453*30MM	Shielding Angle :

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	CLT0.37001 18W BL SMART	Imax (cd)	353.7	S/MH (C0/180)	1.27
NOMINAL POWER (W)	18	LOR (%)	100.0	S/MH (C90/270)	1.23
RATED VOLTAGE (V)	48	TOTAL FLUX (lm)	1050.5	η UP, DN (C0-180)	0.0, 52.0
NOMINAL FLUX (lm)	1050.53	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 48.0
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	346.5	348.7	350.2	349.8	348.0	345.6	344.2	344.7	0- 10	33.43	33.43	3.18,3.18
20	328.6	332.8	335.3	334.4	331.1	326.5	323.6	324.8	10- 20	95.93	129.4	12.3,12.3
30	299.2	305.4	308.9	308.0	303.1	296.4	291.7	293.8	20- 30	145.9	275.3	26.2,26.2
40	259.9	267.6	272.2	271.0	265.1	256.3	250.8	252.9	30- 40	176.7	452.0	43,43
50	212.1	221.4	227.4	225.5	218.5	208.4	202.4	204.3	40- 50	184.6	636.6	60.6,60.6
60	158.3	169.2	176.4	174.0	165.6	155.2	148.6	150.4	50- 60	169.0	805.6	76.7,76.7
70	101.9	113.8	121.8	119.2	109.5	99.74	93.62	94.54	60- 70	133.2	938.8	89.4,89.4
80	45.70	57.92	66.82	63.93	54.07	45.18	39.61	39.63	70- 80	83.37	1022	97.3,97.3
90	0.3933	7.102	14.80	11.39	2.209	0.4666	0.4216	0.4127	80- 90	28.34	1051	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): 544.83 lm

%lum = 51.9%

%lamp = 51.9%

Conical surface Flux(130deg): 877.74 lm

%lum = 83.6%

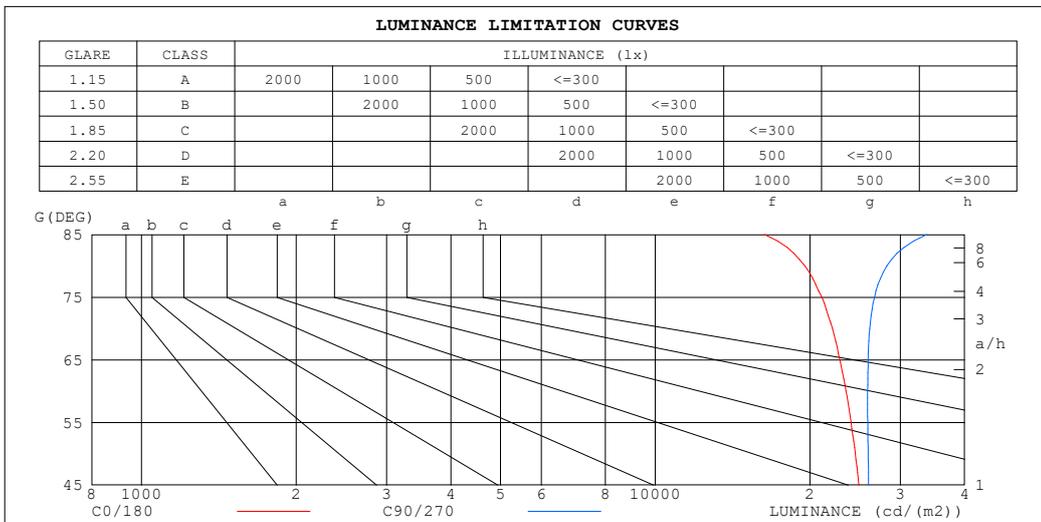
%lamp = 83.6%

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. : 453*30MM	Shielding Angle :



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	16333	33775
80	19550	28247
75	21100	26727
70	22120	26151
65	22876	25960
60	23509	25894
55	24063	25927
50	24513	25972
45	24902	26026

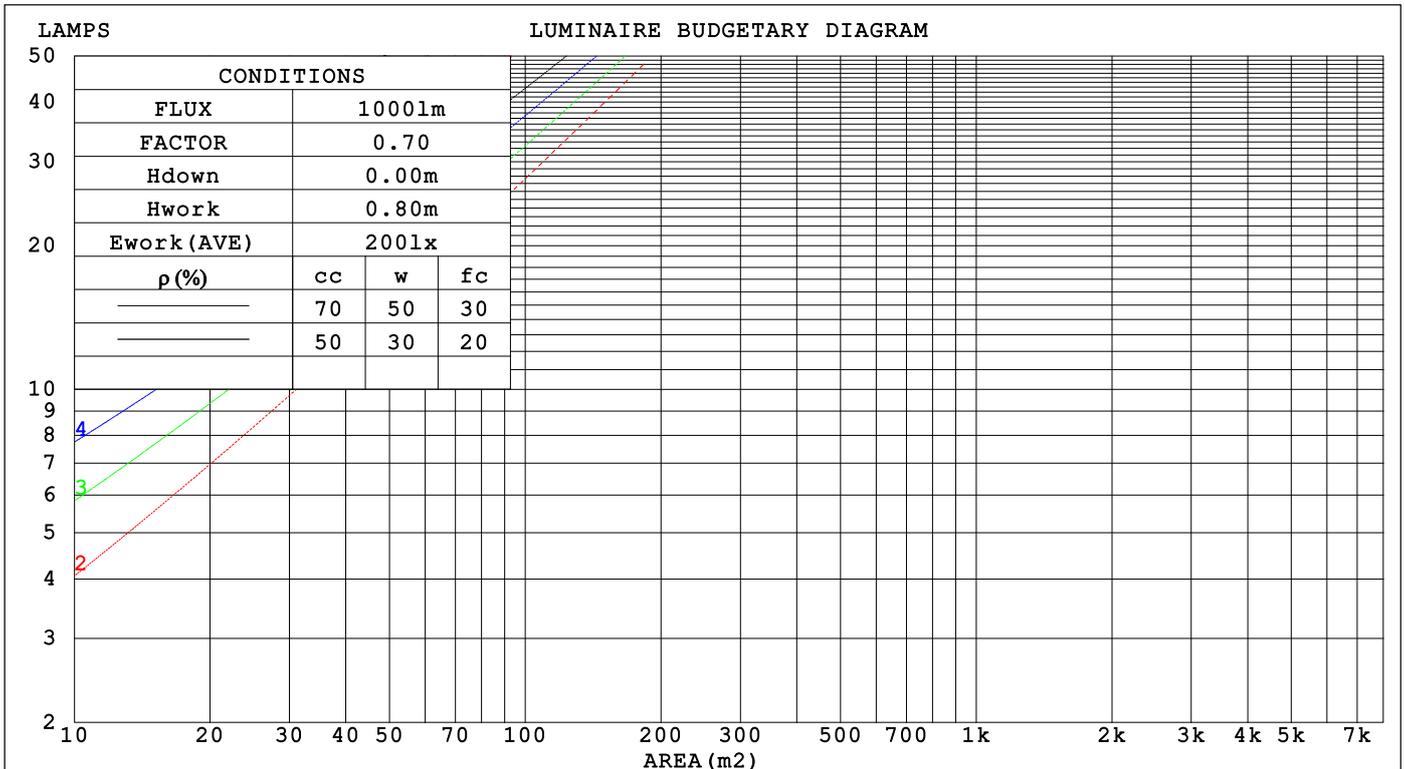
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: FG
 Test Date: 2025-11-06

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.: 453*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	.00
1.0	1.03	.99	.95	1.01	.97	.93	.97	.93	.90	.93	.90	.87	.89	.87	.85	.83
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.: 453*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	.324	.184	.058	.317	.181	.057	.304	.174	.056	.291	.168	.054	.280	.162	.052	
2.0	.301	.165	.051	.295	.162	.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	.108	.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	.173	.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	.053	.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.: 453*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	26.2	27.8	26.5	28.0	28.2	26.6	28.1	26.8	28.3	28.5
3H	27.8	29.3	28.1	29.5	29.7	28.4	29.8	28.7	30.0	30.3
4H	28.5	29.9	28.8	30.1	30.4	29.2	30.6	29.5	30.8	31.1
6H	29.0	30.3	29.3	30.6	30.8	29.9	31.2	30.3	31.5	31.8
8H	29.2	30.4	29.5	30.7	31.0	30.3	31.5	30.6	31.8	32.1
12H	29.3	30.5	29.6	30.8	31.1	30.5	31.7	30.9	32.0	32.3
4H 2H	26.9	28.3	27.3	28.6	28.8	27.2	28.6	27.5	28.8	29.1
3H	28.7	29.9	29.1	30.2	30.6	29.2	30.4	29.6	30.7	31.0
4H	29.6	30.7	29.9	31.0	31.3	30.2	31.3	30.6	31.6	32.0
6H	30.2	31.2	30.6	31.5	31.9	31.1	32.1	31.5	32.4	32.8
8H	30.4	31.4	30.9	31.7	32.1	31.5	32.4	31.9	32.8	33.2
12H	30.6	31.4	31.0	31.8	32.2	31.8	32.7	32.3	33.1	33.5
8H 4H	30.0	30.9	30.4	31.2	31.6	30.5	31.4	30.9	31.8	32.2
6H	30.8	31.6	31.2	32.0	32.4	31.6	32.4	32.0	32.8	33.2
8H	31.1	31.8	31.6	32.2	32.7	32.1	32.8	32.6	33.2	33.7
12H	31.4	32.0	31.9	32.4	32.9	32.6	33.2	33.1	33.7	34.1
12H 4H	30.0	30.9	30.4	31.2	31.7	30.5	31.4	31.0	31.8	32.2
6H	30.9	31.6	31.4	32.0	32.5	31.7	32.4	32.1	32.8	33.2
8H	31.3	31.9	31.8	32.4	32.8	32.3	32.9	32.7	33.3	33.8
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, 1051 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.2)
 Area: 0.01359 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.: 453*30MM	Shielding Angle:

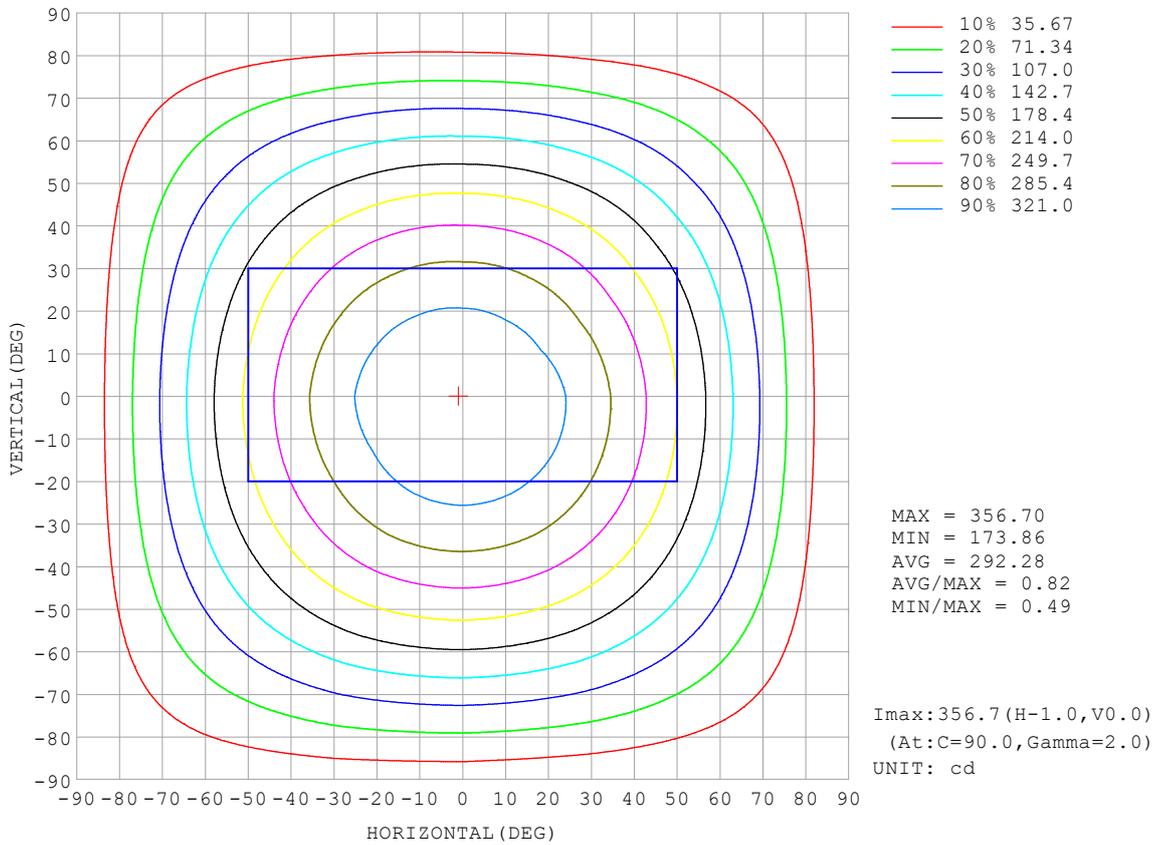
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	45	38	56	45	38	55	44	38	31
0.80	67	55	47	66	54	47	64	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	79	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	88	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. : 453*30MM	Shielding Angle :



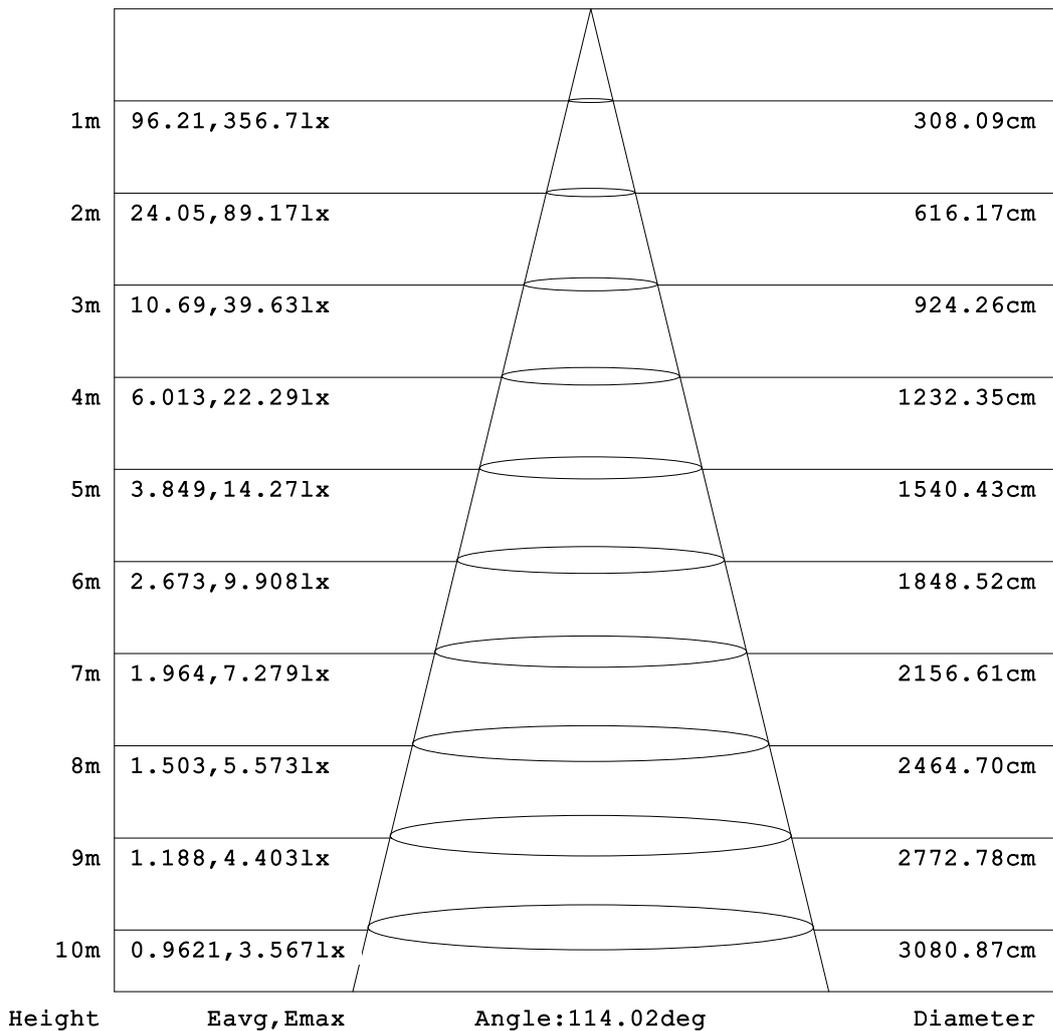
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: FG
 Test Date: 2025-11-06

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. : 453*30MM	Shielding Angle :

Flux out:774.1 lm



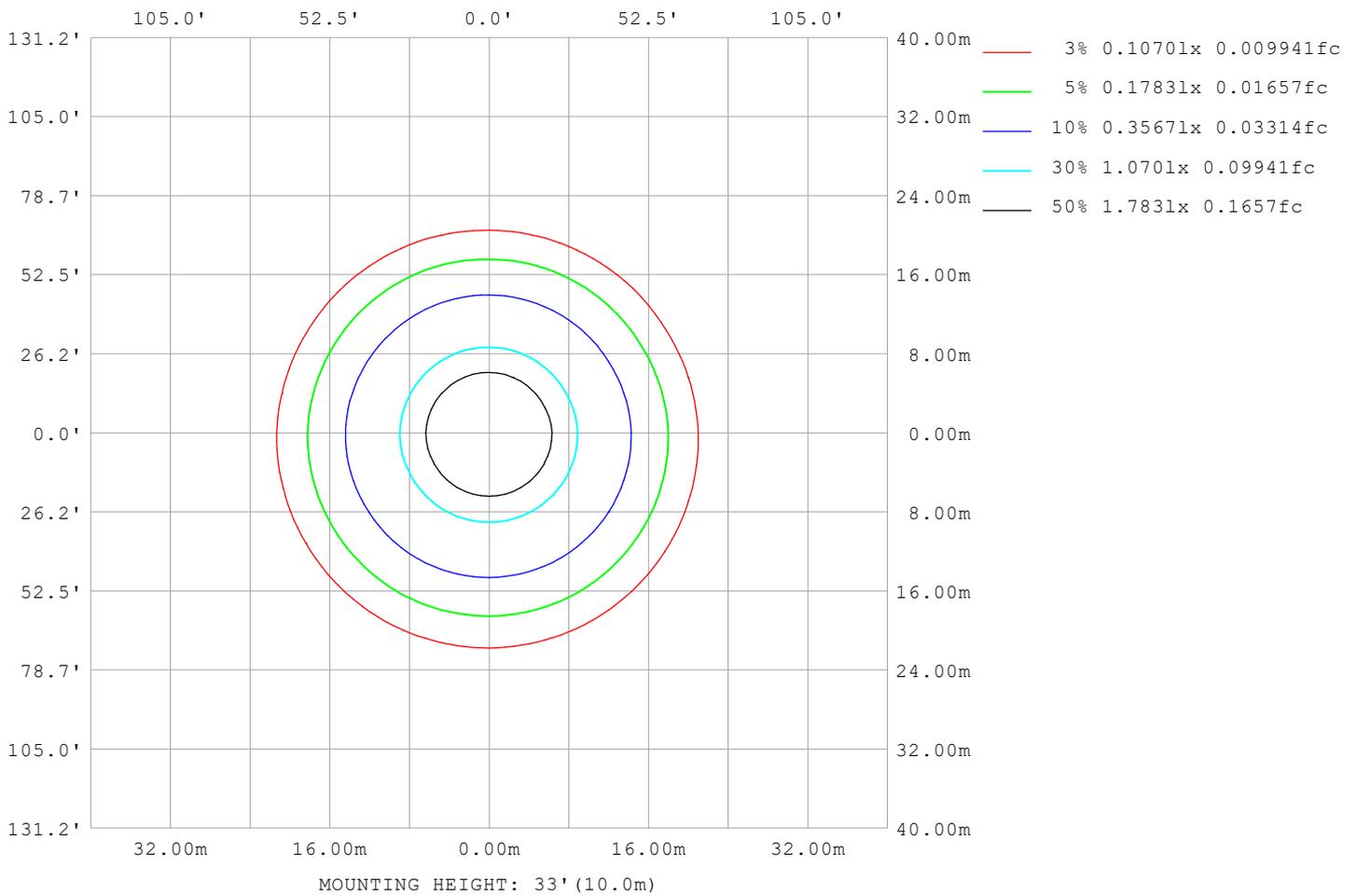
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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.: 453*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. : 453*30MM	Shielding Angle :

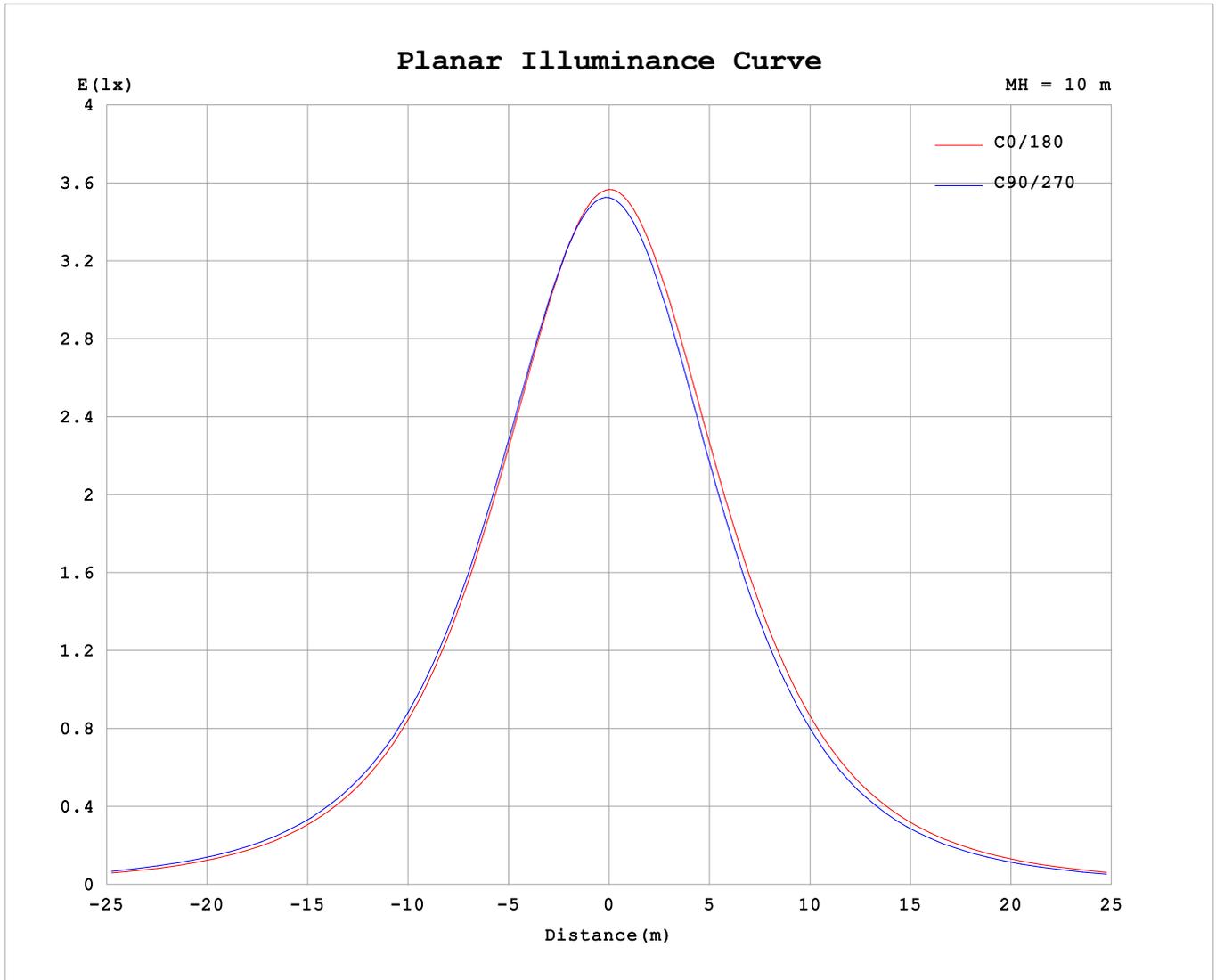
AvgL	cd/m2
L_0~180 (65) av	23319
L_0~180 (75) av	22027
L_0~180 (85) av	19728
L_90~270 (65) av	23562
L_90~270 (75) av	22803
L_90~270 (85) av	22964
L_45 (65) av	23435
L_45 (75) av	22470
L_45 (85) av	21337

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:

