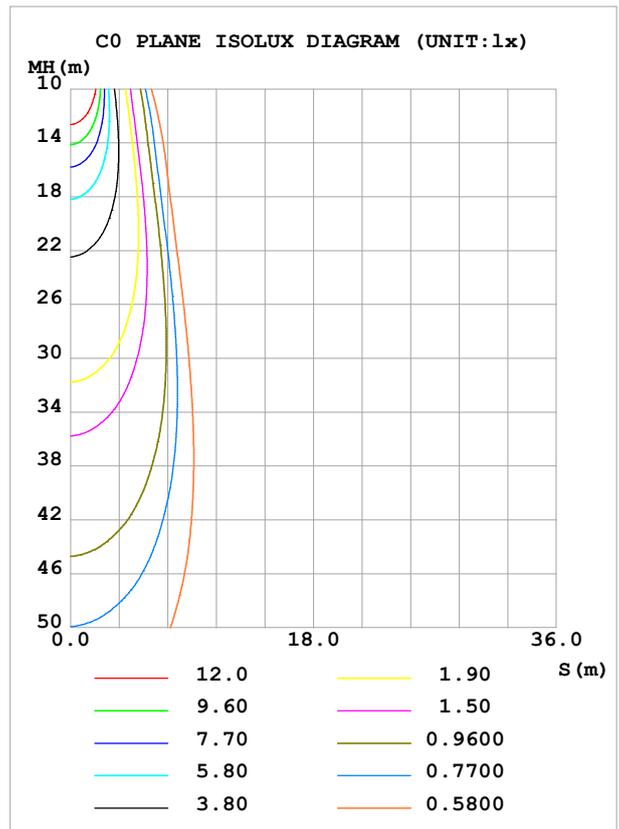
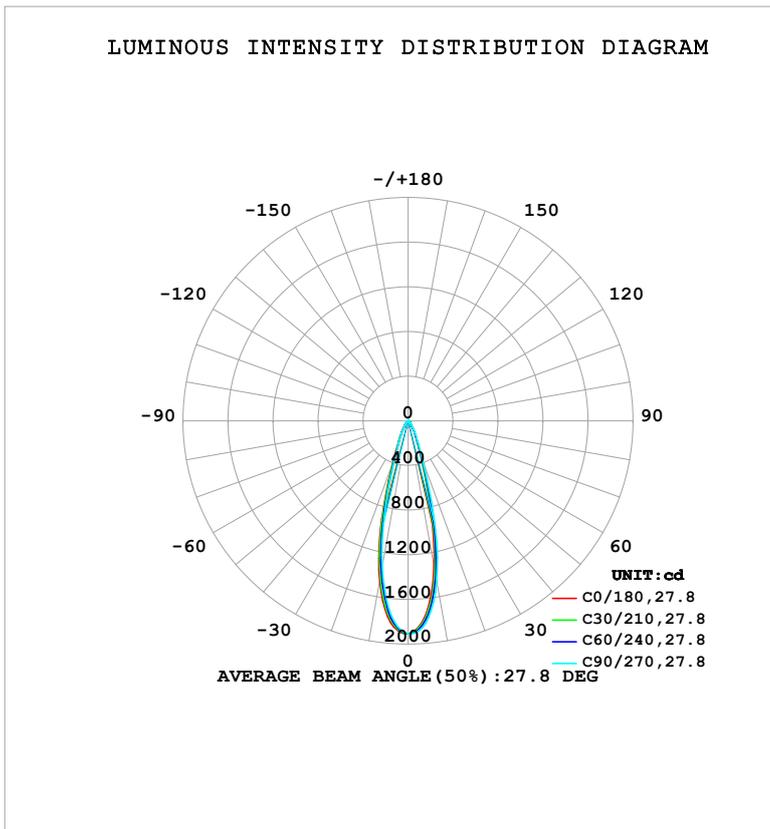


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME :	TYPE :	WEIGHT :
SPEC. :	DIM. :	SERIAL No. :
MFR. :	SUR. : 50mm	Shielding Angle :

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	CLT0.37003 9W BL SMART	I _{max} (cd)	1909	S/MH (C0/180)	0.46
NOMINAL POWER (W)	10	LOR (%)	100.0	S/MH (C90/270)	0.44
RATED VOLTAGE (V)	48	TOTAL FLUX (lm)	529.68	η UP, DN (C0-180)	0.0, 50.9
NOMINAL FLUX (lm)	529.676	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 49.1
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE (V)	48	η down (%)	100.0	CIBSE SHR MAX	1.00



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: FG
 Test Date: 2025-11-05

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	1327	1396	1464	1472	1460	1403	1331	1311	0- 10	157.6	157.6	29.8,29.8
20	321.5	343.4	382.3	394.8	394.7	360.8	331.2	323.3	10- 20	221.5	379.1	71.6,71.6
30	101.6	104.3	119.2	110.9	114.5	106.1	102.1	100.3	20- 30	89.71	468.8	88.5,88.5
40	33.23	34.14	37.21	34.43	33.75	33.25	31.80	33.00	30- 40	38.54	507.3	95.8,95.8
50	9.441	10.20	11.67	11.49	11.38	10.54	9.494	9.204	40- 50	16.35	523.6	98.9,98.9
60	2.763	2.869	3.139	3.202	3.202	2.993	2.795	2.665	50- 60	4.662	528.3	99.7,99.7
70	0.0533	0.0627	0.1202	0.2045	0.1712	0.1107	0.0597	0.0534	60- 70	1.306	529.6	100,100
80	0.0205	0.0162	0.0265	0.0236	0.0292	0.0264	0.0294	0.0207	70- 80	0.0353	529.7	100,100
90	0.0205	0.0235	0.0236	0.0222	0.0263	0.0220	0.0295	0.0236	80- 90	0.0237	529.7	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): 517.31 lm

%lum = 97.7%

%lamp = 97.7%

Conical surface Flux(130deg): 529.3 lm

%lum = 99.9%

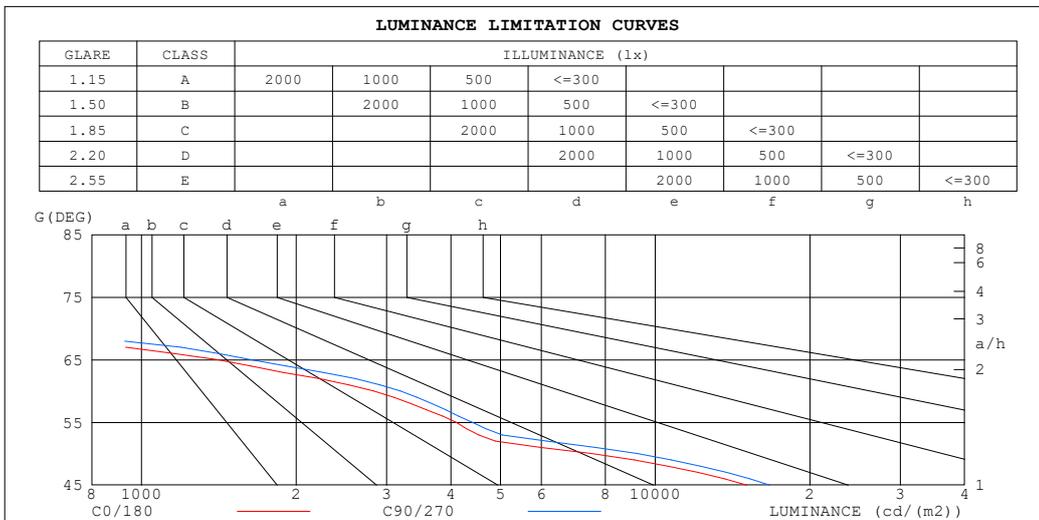
%lamp = 99.9%

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:FG
 Test Date:2025-11-05

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. : 50mm	Shielding Angle :



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	121	103
80	60	77
75	52	46
70	80	179
65	1407	1632
60	2832	3193
55	4098	4403
50	7526	9238
45	15076	16711

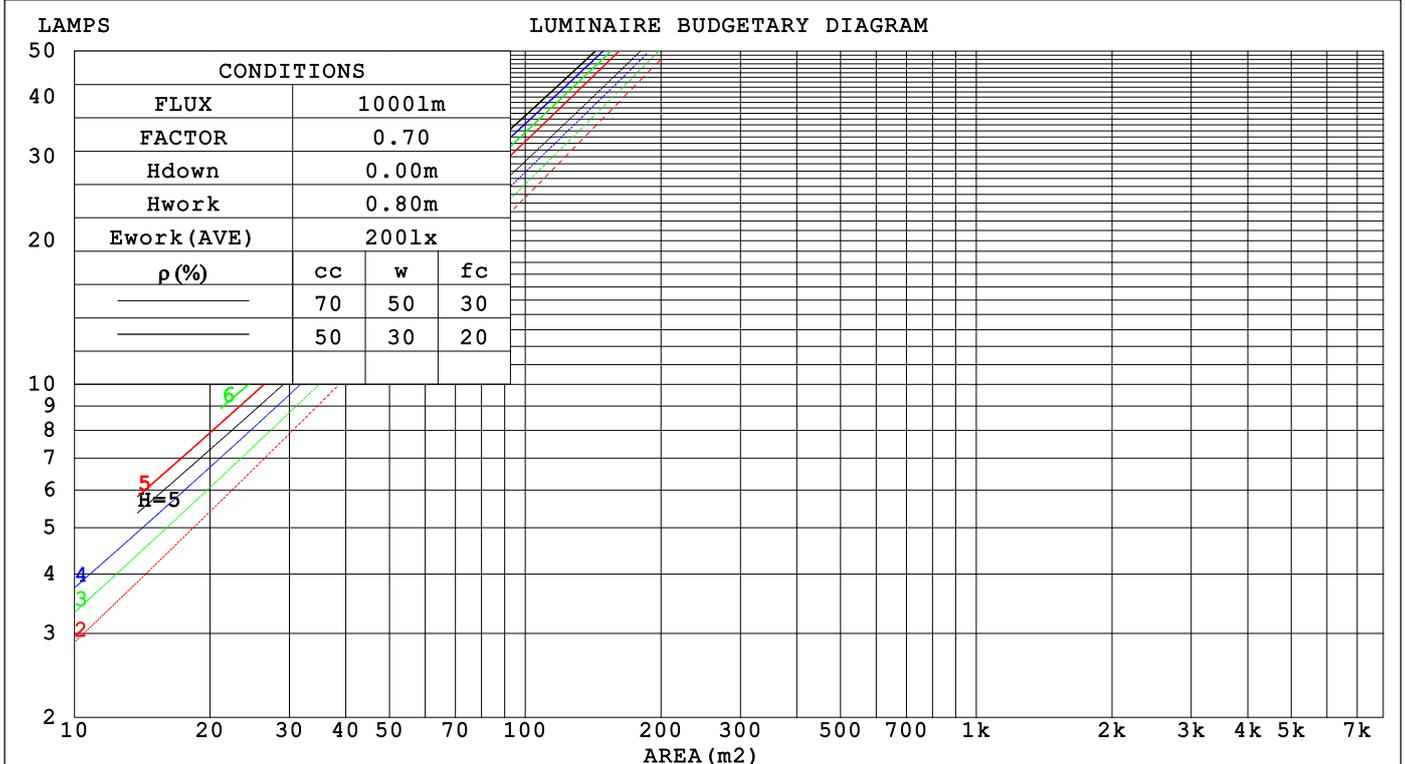
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: FG
 Test Date: 2025-11-05

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.: 50mm	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	1.12	1.10	1.09	1.10	1.08	1.07	1.06	1.05	1.04	1.03	1.01	1.00	.99	.98	.98	.96
2.0	1.07	1.03	1.01	1.05	1.02	.99	1.02	.99	.97	.99	.97	.95	.96	.95	.93	.92
3.0	1.01	.97	.94	1.00	.96	.94	.98	.95	.92	.95	.93	.91	.93	.91	.89	.88
4.0	.97	.92	.89	.96	.92	.89	.94	.90	.88	.92	.89	.87	.90	.88	.86	.84
5.0	.93	.88	.85	.92	.88	.84	.90	.86	.84	.89	.85	.83	.87	.84	.82	.81
6.0	.89	.84	.81	.88	.84	.81	.87	.83	.80	.86	.82	.80	.84	.81	.79	.78
7.0	.86	.81	.78	.85	.81	.78	.84	.80	.77	.83	.79	.77	.82	.79	.76	.75
8.0	.82	.78	.75	.82	.78	.75	.81	.77	.74	.80	.77	.74	.79	.76	.74	.73
9.0	.80	.75	.72	.79	.75	.72	.78	.75	.72	.78	.74	.72	.77	.74	.71	.70
10.0	.77	.73	.70	.77	.72	.70	.76	.72	.69	.75	.72	.69	.75	.71	.69	.68



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: FG
 Test Date: 2025-11-05

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.: 50mm	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	.147	.083	.026	.140	.080	.025	.128	.073	.023	.116	.067	.022	.106	.061	.020	
2.0	.138	.075	.023	.132	.073	.022	.122	.068	.021	.112	.063	.020	.103	.059	.018	
3.0	.129	.069	.021	.125	.067	.020	.116	.063	.019	.108	.059	.018	.101	.056	.017	
4.0	.122	.063	.019	.118	.062	.018	.110	.059	.017	.104	.056	.017	.097	.053	.016	
5.0	.115	.059	.017	.112	.057	.017	.105	.055	.016	.100	.053	.016	.094	.050	.015	
6.0	.109	.055	.016	.106	.054	.015	.101	.052	.015	.096	.050	.015	.091	.048	.014	
7.0	.104	.051	.015	.101	.050	.014	.097	.049	.014	.092	.047	.014	.088	.046	.013	
8.0	.099	.048	.014	.097	.048	.013	.093	.046	.013	.089	.045	.013	.085	.044	.013	
9.0	.095	.046	.013	.093	.045	.013	.089	.044	.012	.086	.043	.012	.082	.042	.012	
10.0	.091	.043	.012	.089	.043	.012	.086	.042	.012	.083	.041	.012	.080	.040	.011	

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	.169	.158	.147	.145	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.016	
2.0	.152	.133	.117	.130	.114	.101	.089	.079	.070	.051	.046	.041	.016	.015	.013	
3.0	.137	.113	.094	.118	.098	.082	.081	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.125	.098	.077	.108	.085	.067	.074	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.115	.086	.064	.099	.074	.056	.068	.052	.040	.040	.031	.023	.013	.010	.008	
6.0	.107	.076	.054	.092	.066	.047	.063	.046	.033	.037	.027	.020	.012	.009	.007	
7.0	.100	.068	.046	.086	.059	.040	.059	.041	.029	.034	.024	.017	.011	.008	.006	
8.0	.093	.062	.040	.080	.053	.035	.056	.037	.025	.032	.022	.015	.010	.007	.005	
9.0	.088	.056	.035	.076	.049	.030	.052	.034	.021	.030	.020	.013	.010	.007	.004	
10.0	.083	.051	.030	.071	.045	.026	.050	.031	.019	.029	.019	.011	.009	.006	.004	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3 °C
 Operators:FG
 Test Date:2025-11-05

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.: 50mm					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	15.8	16.6	16.1	16.7	16.9	16.3	17.0	16.5	17.2	17.3
3H	15.7	16.4	16.0	16.6	16.8	16.2	16.8	16.4	17.0	17.2
4H	15.6	16.3	15.9	16.5	16.7	16.1	16.7	16.3	16.9	17.1
6H	15.5	16.1	15.8	16.4	16.6	16.0	16.6	16.3	16.8	17.1
8H	15.5	16.1	15.8	16.3	16.6	15.9	16.5	16.2	16.8	17.0
12H	15.5	16.0	15.8	16.3	16.5	15.9	16.5	16.2	16.7	17.0
4H 2H	15.7	16.3	15.9	16.5	16.7	16.1	16.7	16.4	17.0	17.2
3H	15.5	16.1	15.8	16.3	16.6	15.9	16.5	16.3	16.8	17.0
4H	15.4	15.9	15.8	16.2	16.5	15.9	16.4	16.2	16.7	17.0
6H	15.3	15.8	15.7	16.1	16.4	15.8	16.2	16.1	16.5	16.9
8H	15.3	15.7	15.6	16.0	16.4	15.7	16.1	16.1	16.5	16.8
12H	15.2	15.6	15.6	16.0	16.3	15.6	16.0	16.0	16.4	16.8
8H 4H	15.3	15.7	15.6	16.0	16.4	15.7	16.1	16.1	16.5	16.8
6H	15.1	15.5	15.6	15.9	16.3	15.6	15.9	16.0	16.3	16.7
8H	15.1	15.4	15.5	15.8	16.2	15.5	15.8	16.0	16.3	16.7
12H	15.0	15.3	15.5	15.7	16.2	15.5	15.7	15.9	16.2	16.6
12H 4H	15.2	15.6	15.6	16.0	16.3	15.6	16.0	16.0	16.4	16.8
6H	15.1	15.4	15.5	15.8	16.2	15.5	15.8	16.0	16.3	16.7
8H	15.0	15.3	15.5	15.7	16.2	15.5	15.7	15.9	16.2	16.6
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.3 / - 7.3					+ 2.8 / - 7.3				
1.5H	+ 3.7 / - 5.7					+ 4.2 / - 6.2				
2.0H	+ 5.6 / - 6.7					+ 5.8 / - 7.0				

CIE Pub.117, 529.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.2)
 Area: 0.00196344 m2

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:FG
 Test Date:2025-11-05

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.: 50mm	Shielding Angle:

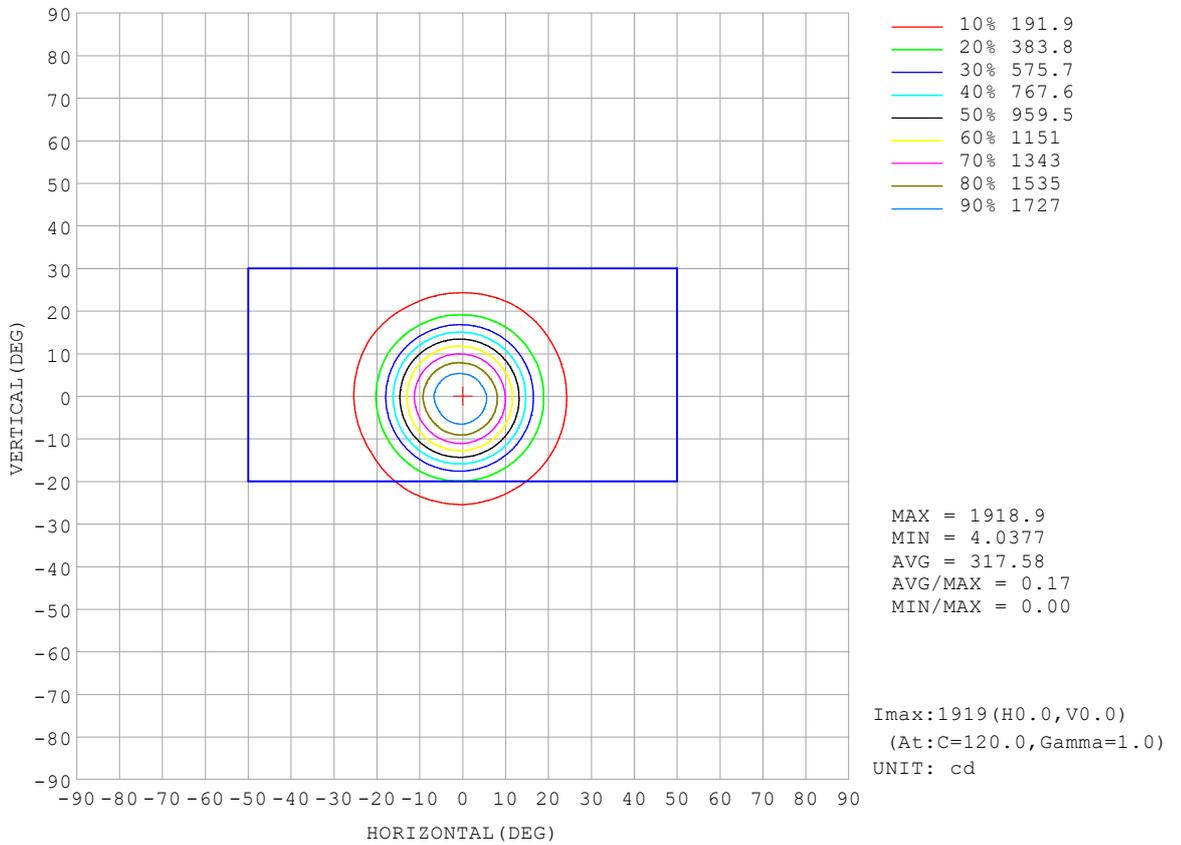
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	89	83	79	88	83	79	88	82	79	76
0.80	96	91	87	95	90	87	94	90	87	83
1.00	100	95	92	100	95	91	98	94	91	87
1.25	104	99	96	103	99	96	101	98	95	91
1.50	107	102	99	106	102	99	103	100	98	93
2.00	109	105	102	108	104	101	105	102	100	95
2.50	111	107	104	109	106	103	106	104	102	96
3.00	112	109	106	110	108	105	107	105	103	97
4.00	114	112	109	112	110	108	109	107	105	98
5.00	115	113	112	113	111	110	109	108	107	99
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: 2025-11-05

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. : 50mm	Shielding Angle :

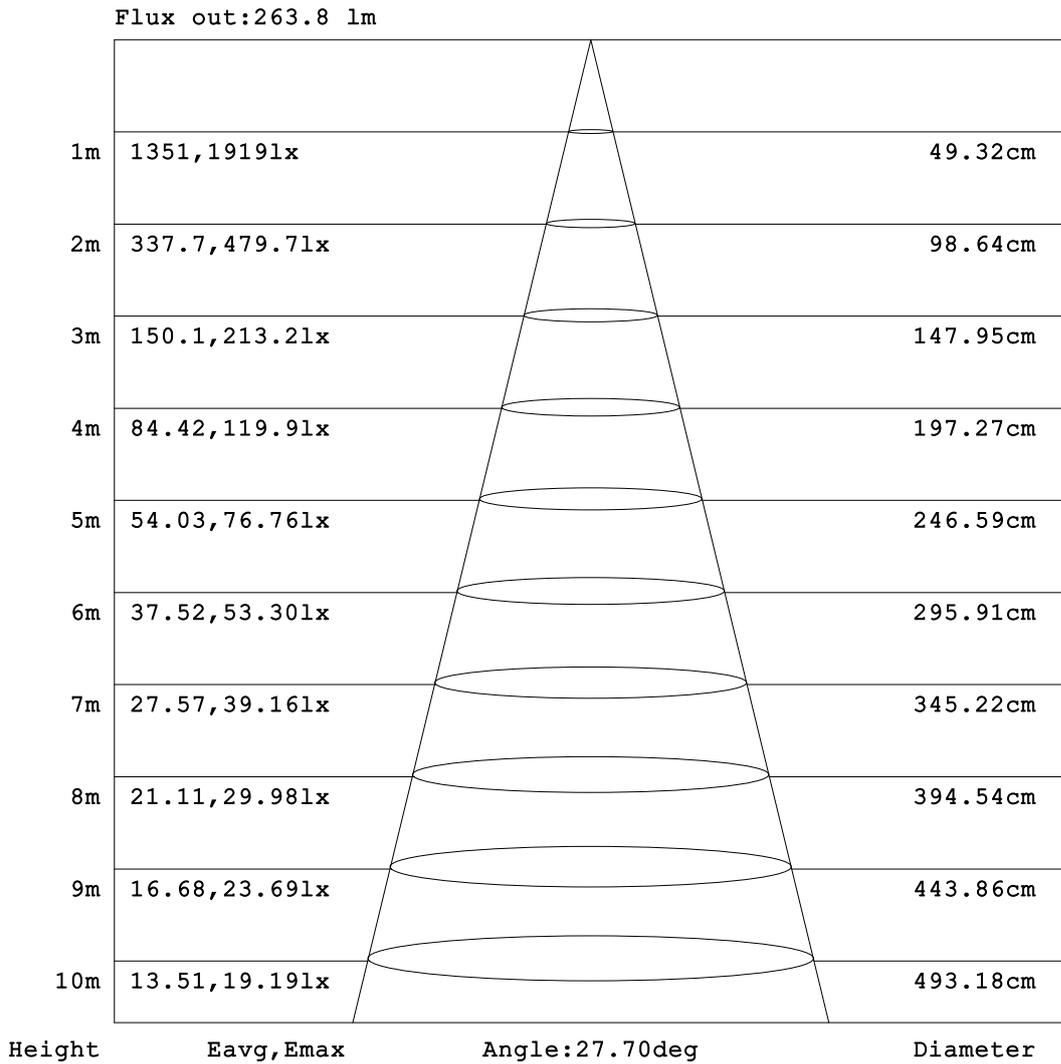


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3 °C
 Operators:FG
 Test Date:2025-11-05

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. : 50mm	Shielding Angle :



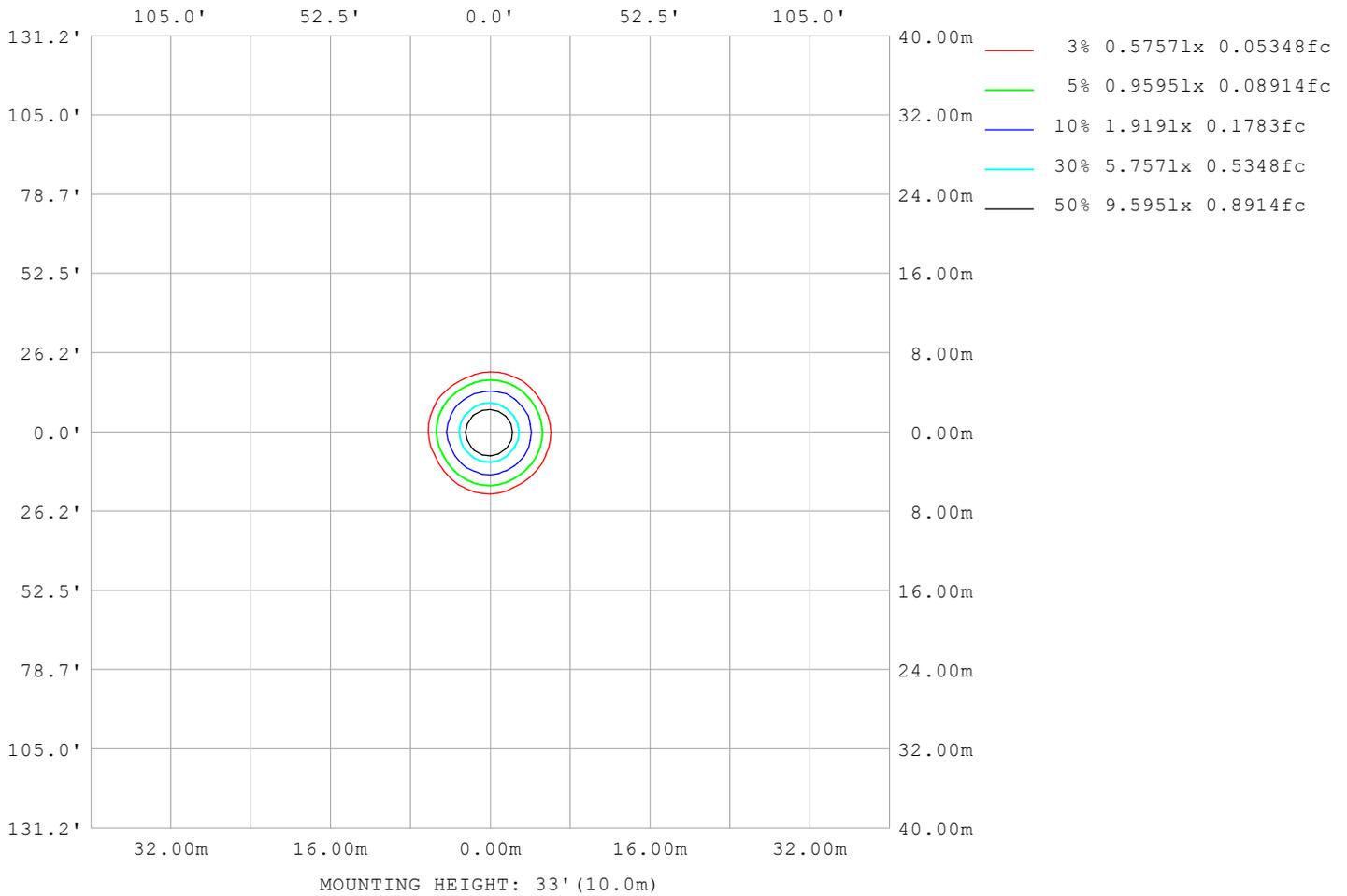
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3 °C
 Operators:FG
 Test Date:2025-11-05

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. : 50mm	Shielding Angle :



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: FG
 Test Date: 2025-11-05

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. : 50mm	Shielding Angle :

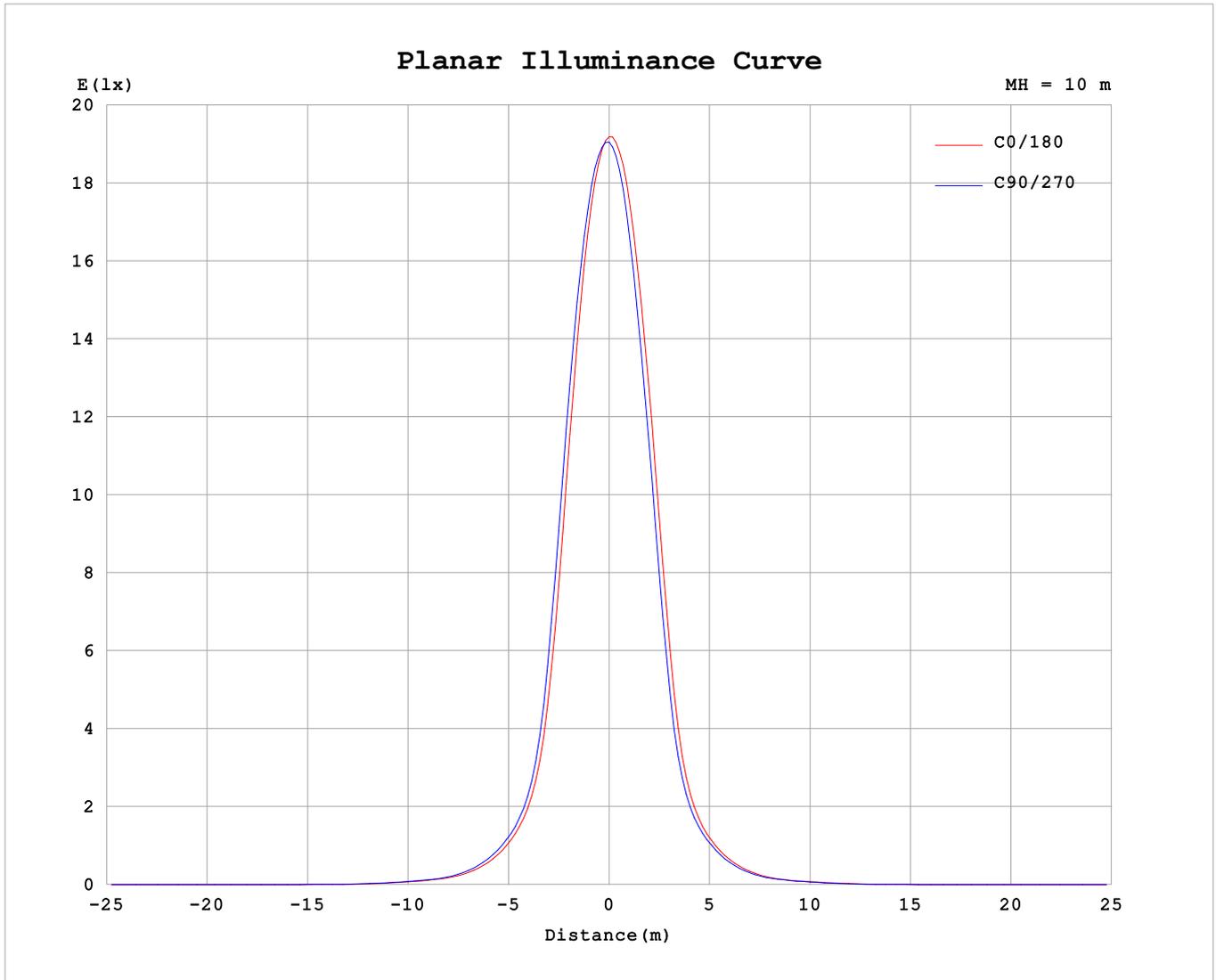
AvgL	cd/m2
L_0~180 (65) av	1534
L_0~180 (75) av	52
L_0~180 (85) av	137
L_90~270 (65) av	1473
L_90~270 (75) av	49
L_90~270 (85) av	121
L_45 (65) av	1448
L_45 (75) av	48
L_45 (85) av	129

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:FG
 Test Date:2025-11-05

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: 2025-11-05

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:

