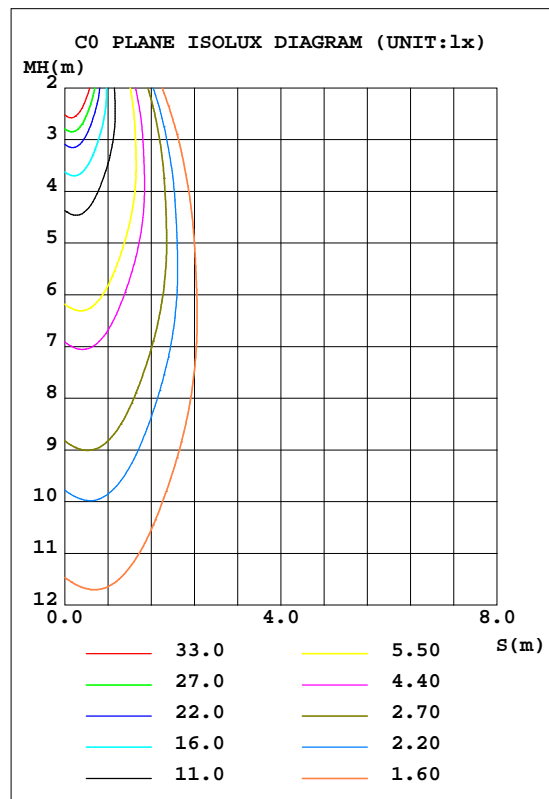
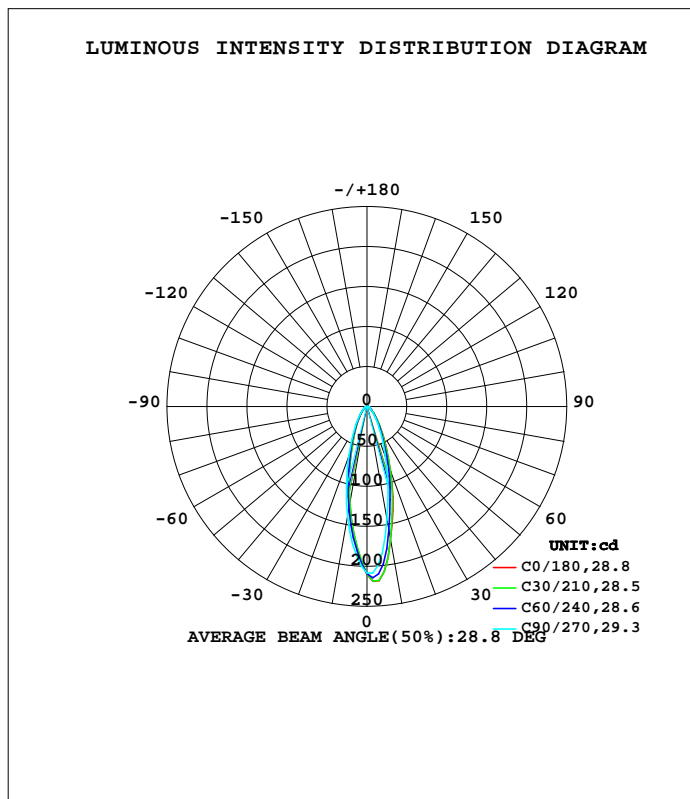


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:3.1419V I:0.3495A P:1.0979W PF:1.0000 Freq:0Hz Lamp Flux:98.7516x1 lm		
NAME: 85-0244-23-99 沱亮新LED	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	974	Imax(cd)	219.3	S/MH(C0/180)	0.41
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.47
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	98.752	h UP, DN(C0-180)	0.0, 51.1
NOMINAL FLUX(lm)	98.7516	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.0, 48.9
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	230.0	h down(%)	100.0	CIBSE SHR MAX	0.55



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: LQL
 Test Date: 20 October 2021

Range: 0 - 90DEG
 Interval: 2.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.403
 Humidity: 65.0%
 Test Distance: 10.365m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

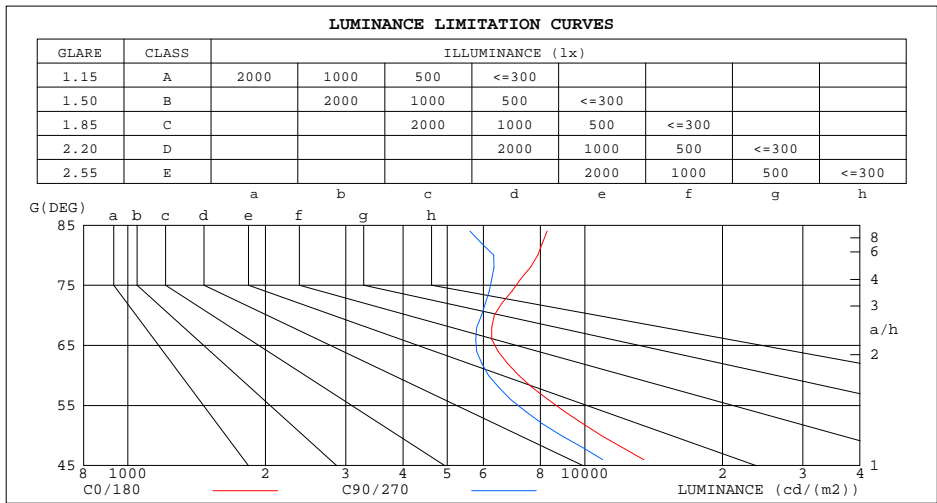
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	170.5	165.5	143.4	128.8	124.3	126.8	140.3	159.3	0- 10	16.57	16.57	16.8,16.8
20	87.17	81.56	68.30	59.05	55.07	58.15	66.68	80.87	10- 20	28.55	45.12	45.7,45.7
30	38.79	36.20	31.11	27.01	25.15	26.46	30.16	35.54	20- 30	21.54	66.66	67.5,67.5
40	18.02	17.23	14.67	12.82	12.34	12.89	14.28	16.81	30- 40	13.61	80.27	81.3,81.3
50	8.786	8.414	7.180	6.282	5.940	6.362	7.013	8.272	40- 50	8.170	88.44	89.6,89.6
60	4.510	4.412	3.864	3.489	3.163	3.209	3.528	4.075	50- 60	4.724	93.16	94.3,94.3
70	2.723	2.711	2.551	2.360	2.167	2.286	2.450	2.537	60- 70	2.991	96.15	97.4,97.4
80	1.720	1.626	1.378	1.040	0.7875	0.7412	1.005	1.398	70- 80	2.007	98.16	99.4,99.4
90	0.2877	0.2324	0.0221	0.0184	0.0295	0.0258	0.0221	0.0553	80- 90	0.5940	98.75	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		

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LQL
 Test Date:20 October 2021

g Range: 0 - 90DEG
 Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.403
 Humidity:65.0%
 Test Distance:10.365m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:3.1419V I:0.3495A P:1.0979W PF:1.0000 Freq:0Hz Lamp Flux:98.7516x1 lm		
NAME: 85-0244-23-99 论亮新LED	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	9924	6725
80	7887	6318
75	7378	6577
70	6339	5939
65	6703	6015
60	7181	6152
55	9254	7625
50	10883	8893
45	15312	12427

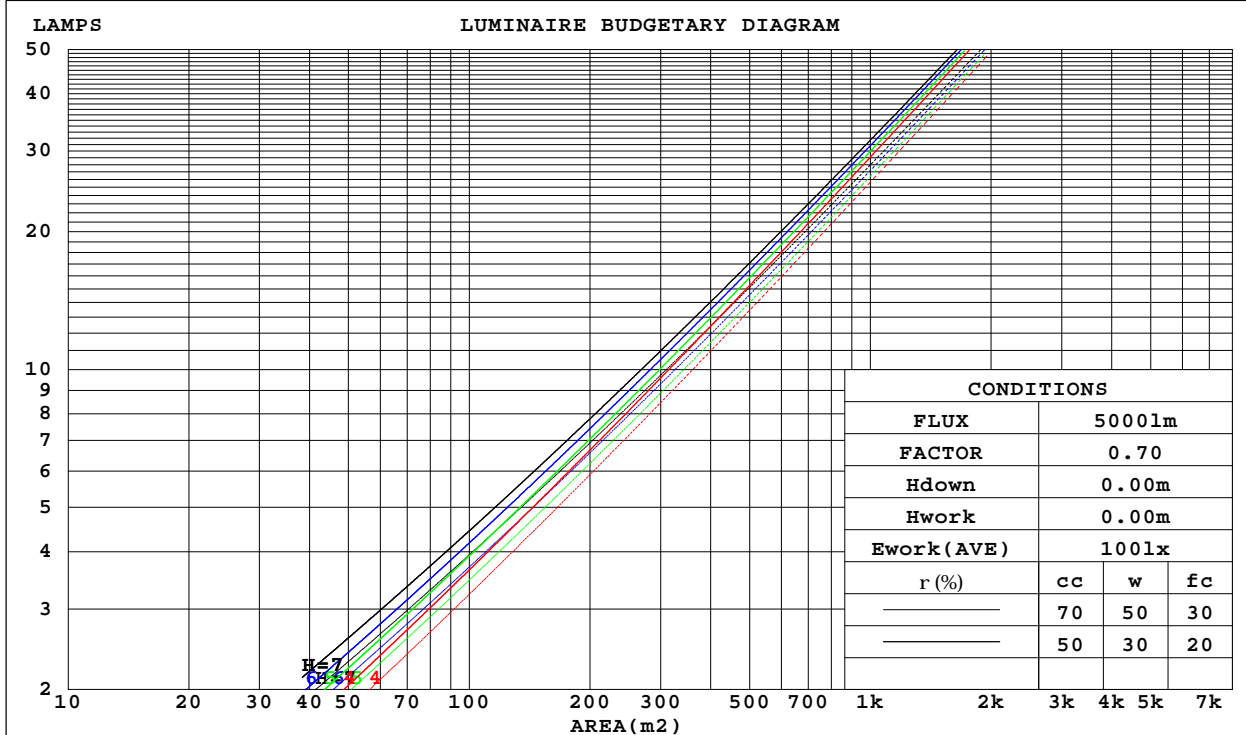
C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: LQL
 Test Date: 20 October 2021

G Range: 0 - 90DEG
 G Interval: 2.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.403
 Humidity: 65.0%
 Test Distance: 10.365m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:3.1419V I:0.3495A P:1.0979W PF:1.0000 Freq:0Hz Lamp Flux:98.7516x1 lm		
NAME: 85-0244-23-99 涂亮新LED	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:

r _{cc}	80%			70%			50%			30%			10%			0
r _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r _{fc}	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	1.10	1.07	1.04	1.07	1.05	1.03	1.03	1.01	.99	.00	.98	.97	.96	.95	.94	.92
2.0	1.01	.97	.93	.99	.95	.92	.96	.93	.90	.93	.90	.88	.90	.88	.86	.84
3.0	.94	.89	.84	.93	.88	.84	.90	.86	.82	.87	.84	.81	.85	.82	.80	.78
4.0	.88	.82	.77	.87	.81	.77	.84	.80	.76	.82	.78	.75	.80	.77	.74	.73
5.0	.82	.76	.72	.81	.76	.71	.79	.74	.71	.78	.73	.70	.76	.72	.69	.68
6.0	.77	.71	.67	.77	.71	.67	.75	.70	.66	.74	.69	.66	.72	.68	.65	.64
7.0	.73	.67	.63	.72	.67	.62	.71	.66	.62	.70	.65	.62	.69	.65	.61	.60
8.0	.69	.63	.59	.69	.63	.59	.68	.62	.59	.67	.62	.58	.66	.61	.58	.57
9.0	.66	.60	.56	.65	.60	.56	.64	.59	.56	.63	.59	.55	.63	.58	.55	.54
10.0	.63	.57	.53	.62	.57	.53	.61	.56	.53	.61	.56	.53	.60	.56	.53	.51



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LQL
 Test Date:20 October 2021

Range: 0 - 90DEG
 Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.403
 Humidity:65.0%
 Test Distance:10.365m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:3.1419V I:0.3495A P:1.0979W PF:1.0000 Freq:0Hz Lamp Flux:98.7516x1 lm		
NAME: 85-0244-23-99 涂亮新LED	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.200	.114	.036	.193	.110	.035	.180	.104	.033	.169	.097	.031	.158	.092	.030	
2.0	.188	.103	.032	.183	.101	.031	.172	.096	.030	.162	.091	.028	.153	.086	.027	
3.0	.176	.094	.028	.172	.092	.028	.162	.088	.027	.154	.084	.026	.146	.081	.025	
4.0	.165	.086	.025	.161	.084	.025	.153	.081	.024	.146	.078	.024	.139	.075	.023	
5.0	.155	.079	.023	.152	.078	.023	.145	.075	.022	.138	.073	.022	.132	.071	.021	
6.0	.146	.073	.021	.143	.072	.021	.137	.070	.020	.131	.068	.020	.126	.066	.020	
7.0	.138	.068	.019	.136	.068	.019	.130	.066	.019	.125	.064	.019	.120	.063	.018	
8.0	.131	.064	.018	.129	.063	.018	.124	.062	.018	.119	.060	.017	.115	.059	.017	
9.0	.125	.060	.017	.122	.060	.017	.118	.058	.017	.114	.057	.016	.110	.056	.016	
10.0	.119	.057	.016	.117	.056	.016	.113	.055	.016	.109	.054	.015	.106	.053	.015	

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	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	.173	.157	.143	.148	.135	.123	.101	.093	.085	.058	.054	.050	.019	.017	.016	
2.0	.158	.132	.111	.136	.114	.096	.093	.079	.067	.054	.046	.039	.017	.015	.013	
3.0	.146	.114	.088	.126	.098	.076	.086	.068	.053	.050	.040	.031	.016	.013	.010	
4.0	.136	.099	.071	.117	.086	.062	.080	.060	.043	.046	.035	.026	.015	.011	.008	
5.0	.127	.088	.058	.109	.076	.051	.075	.053	.036	.044	.031	.021	.014	.010	.007	
6.0	.119	.078	.049	.103	.068	.043	.071	.047	.030	.041	.028	.018	.013	.009	.006	
7.0	.113	.071	.041	.097	.061	.036	.067	.043	.026	.039	.025	.015	.013	.008	.005	
8.0	.106	.064	.036	.092	.056	.031	.063	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.101	.059	.031	.087	.051	.027	.060	.036	.019	.035	.021	.011	.011	.007	.004	
10.0	.096	.055	.027	.083	.048	.024	.057	.033	.017	.033	.020	.010	.011	.006	.003	

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LQL
 Test Date:20 October 2021

g Range: 0 - 90DEG
 g Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.403
 Humidity:65.0%
 Test Distance:10.365m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:3.1419V I:0.3495A P:1.0979W PF:1.0000 Freq:0Hz Lamp Flux:98.7516x1 lm										
NAME: 85-0244-23-99 亮新LED					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: CG LIGHTING					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	26.1	27.1	26.3	27.2	27.4	25.2	26.2	25.5	26.4	26.6
3H	26.8	27.7	27.1	27.9	28.1	26.1	27.0	26.4	27.2	27.4
4H	27.3	28.2	27.6	28.4	28.6	26.6	27.5	26.9	27.7	27.9
6H	27.9	28.7	28.2	28.9	29.2	27.1	27.9	27.4	28.2	28.4
8H	28.1	28.9	28.4	29.1	29.4	27.3	28.1	27.6	28.4	28.6
12H	28.3	29.0	28.6	29.3	29.6	27.4	28.2	27.7	28.4	28.7
4H 2H	26.3	27.2	26.6	27.4	27.6	25.6	26.4	25.8	26.7	26.9
3H	27.2	28.0	27.6	28.3	28.6	26.7	27.4	27.0	27.7	28.0
4H	27.9	28.6	28.3	28.9	29.2	27.4	28.1	27.7	28.4	28.7
6H	28.7	29.3	29.1	29.6	30.0	28.1	28.7	28.4	29.0	29.4
8H	29.0	29.6	29.4	29.9	30.3	28.3	28.9	28.7	29.3	29.6
12H	29.3	29.8	29.7	30.2	30.6	28.5	29.0	28.9	29.4	29.8
8H 4H	28.2	28.7	28.6	29.1	29.5	27.7	28.3	28.1	28.6	29.0
6H	29.1	29.6	29.6	30.0	30.4	28.6	29.1	29.0	29.5	29.9
8H	29.6	30.0	30.0	30.4	30.8	29.0	29.4	29.4	29.8	30.2
12H	30.0	30.4	30.5	30.8	31.3	29.2	29.6	29.7	30.0	30.5
12H 4H	28.2	28.7	28.6	29.1	29.5	27.7	28.3	28.1	28.6	29.0
6H	29.2	29.6	29.7	30.1	30.5	28.7	29.1	29.1	29.5	30.0
8H	29.7	30.1	30.2	30.5	31.0	29.1	29.5	29.6	29.9	30.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.5					+ 0.4 / - 0.5				
1.5H	+ 0.6 / - 0.4					+ 0.4 / - 0.5				
2.0H	+ 0.9 / - 0.5					+ 0.7 / - 0.6				

CIE Pub.117, 98.75 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -8.0)

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LQL
 Test Date:20 October 2021

g Range: 0 - 90DEG
 g Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.403
 Humidity:65.0%
 Test Distance:10.365m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:3.1419V I:0.3495A P:1.0979W PF:1.0000 Freq:0Hz Lamp Flux:98.7516x1 lm		
NAME: 85-0244-23-99 洽亮新LED	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:

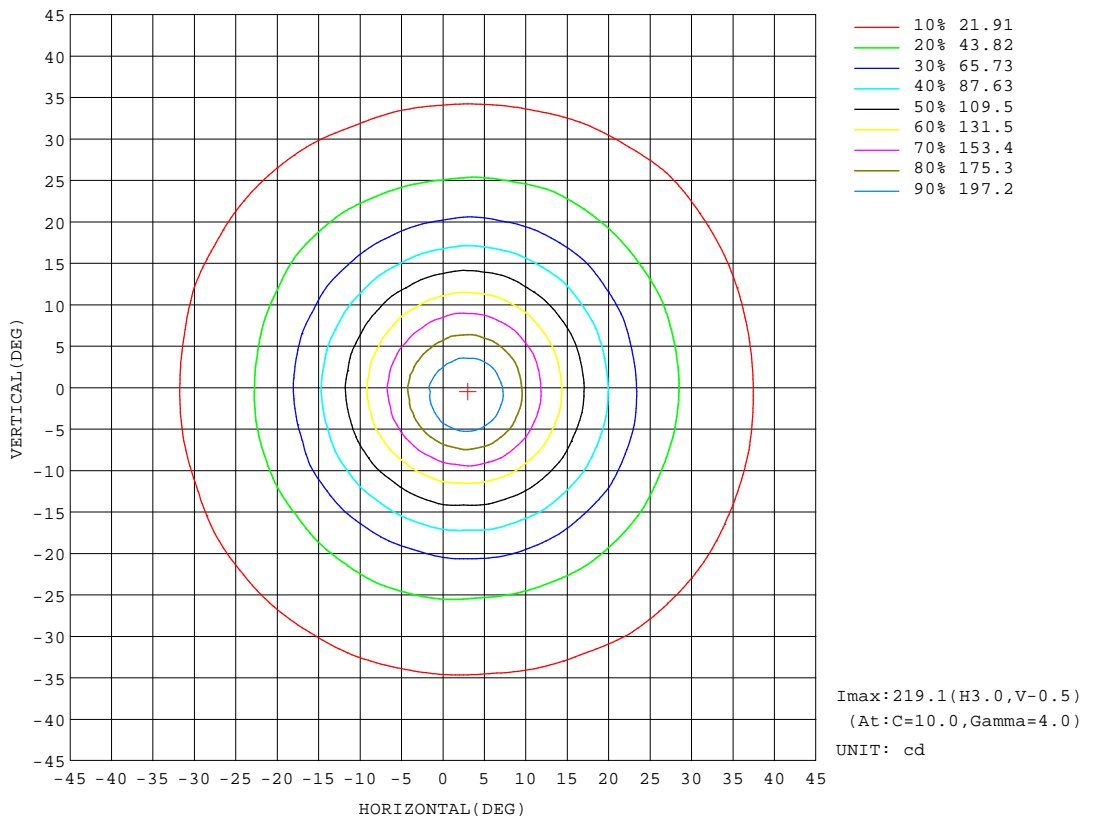
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	80	72	68	79	72	68	79	72	67	63
0.80	88	81	76	87	80	76	86	80	76	71
1.00	94	87	82	93	86	82	91	86	81	77
1.25	98	92	88	97	91	87	95	90	86	81
1.50	102	96	91	100	95	91	98	93	90	85
2.00	105	100	96	104	99	95	101	97	94	88
2.50	107	103	99	106	101	98	102	99	96	90
3.00	109	105	102	108	104	101	104	101	98	92
4.00	112	108	106	110	107	104	106	104	102	94
5.00	113	111	108	111	109	107	107	105	103	95
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LQL
 Test Date:20 October 2021

g Range: 0 - 90DEG
 Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.403
 Humidity:65.0%
 Test Distance:10.365m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:3.1419V I:0.3495A P:1.0979W PF:1.0000 Freq:0Hz Lamp Flux:98.7516x1 lm		
NAME: 85-0244-23-99 论亮新LED	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:



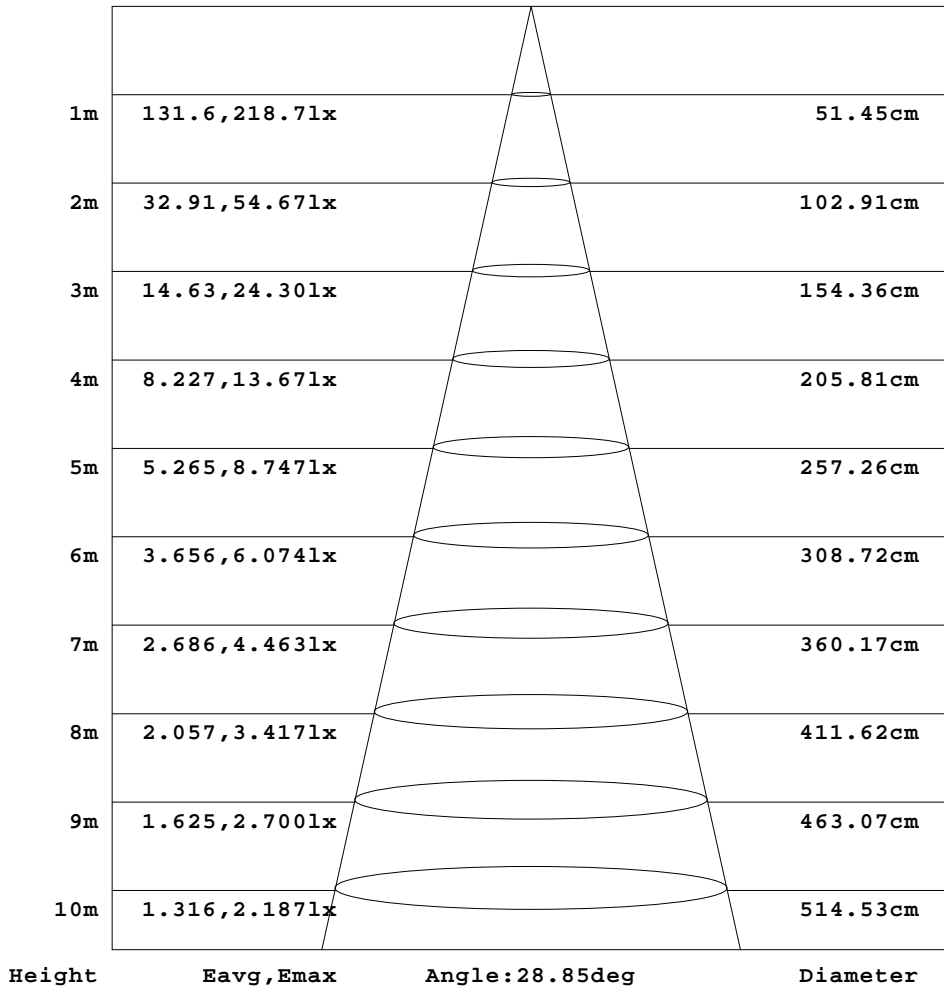
C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LQL
 Test Date:20 October 2021

Range: 0 - 90DEG
 Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.403
 Humidity:65.0%
 Test Distance:10.365m [K=1.0000]
 Remarks:

AAI Figure

Test:U:3.1419V I:0.3495A P:1.0979W PF:1.0000 Freq:0Hz Lamp Flux:98.7516x1 lm		
NAME: 85-0244-23-99 途亮新LED	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:

Flux out:34.00 lm



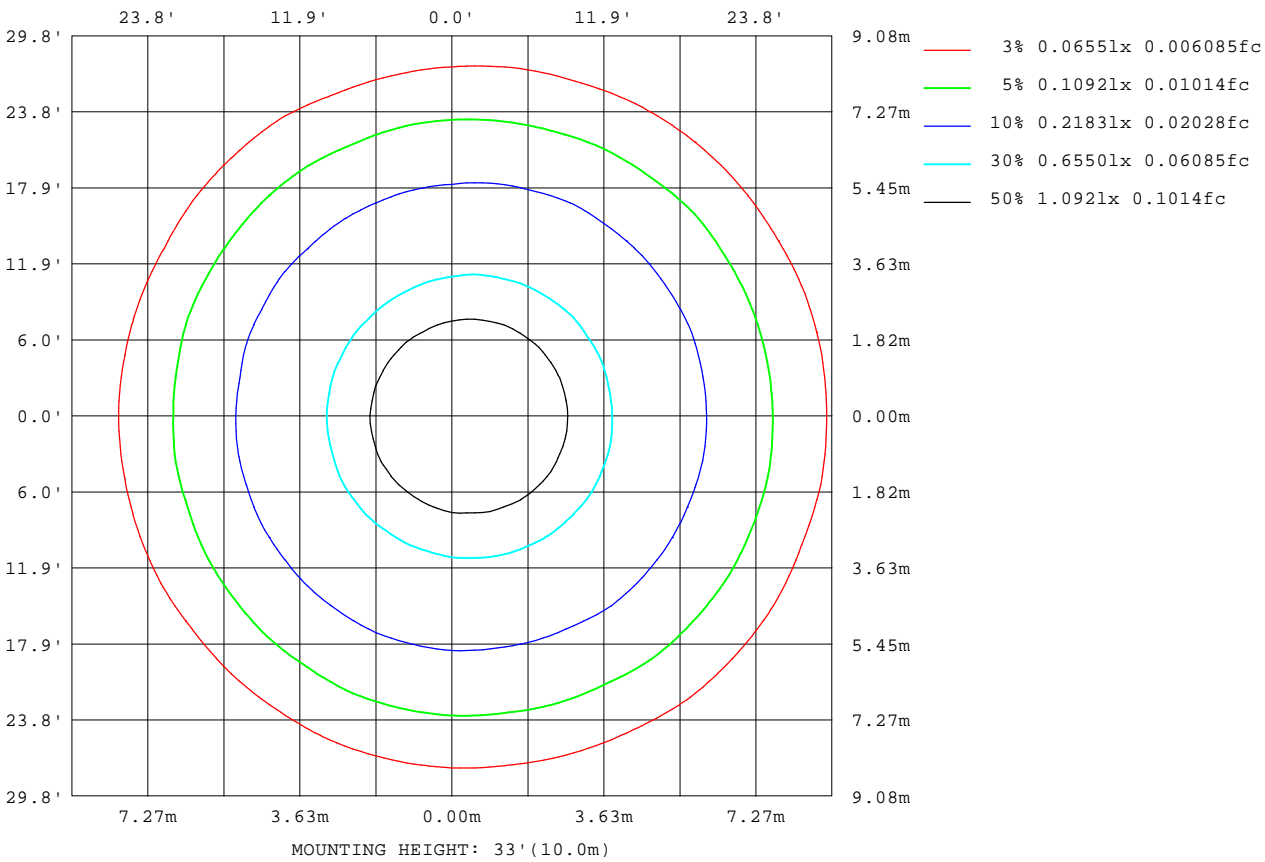
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: LQL
 Test Date: 20 October 2021

Range: 0 - 90DEG
 Interval: 2.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.403
 Humidity: 65.0%
 Test Distance: 10.365m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:3.1419V I:0.3495A P:1.0979W PF:1.0000 Freq:0Hz Lamp Flux:98.7516x1 lm		
NAME: 85-0244-23-99 洽亮新LED	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: LQL
Test Date: 20 October 2021

Page Range: 0 - 90DEG
Interval: 2.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.403
Humidity: 65.0%
Test Distance: 10.365m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:3.1419V I:0.3495A P:1.0979W PF:1.0000 Freq:0Hz Lamp Flux:98.7516x1 lm		
NAME: 85-0244-23-99 洽亮新LED	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:

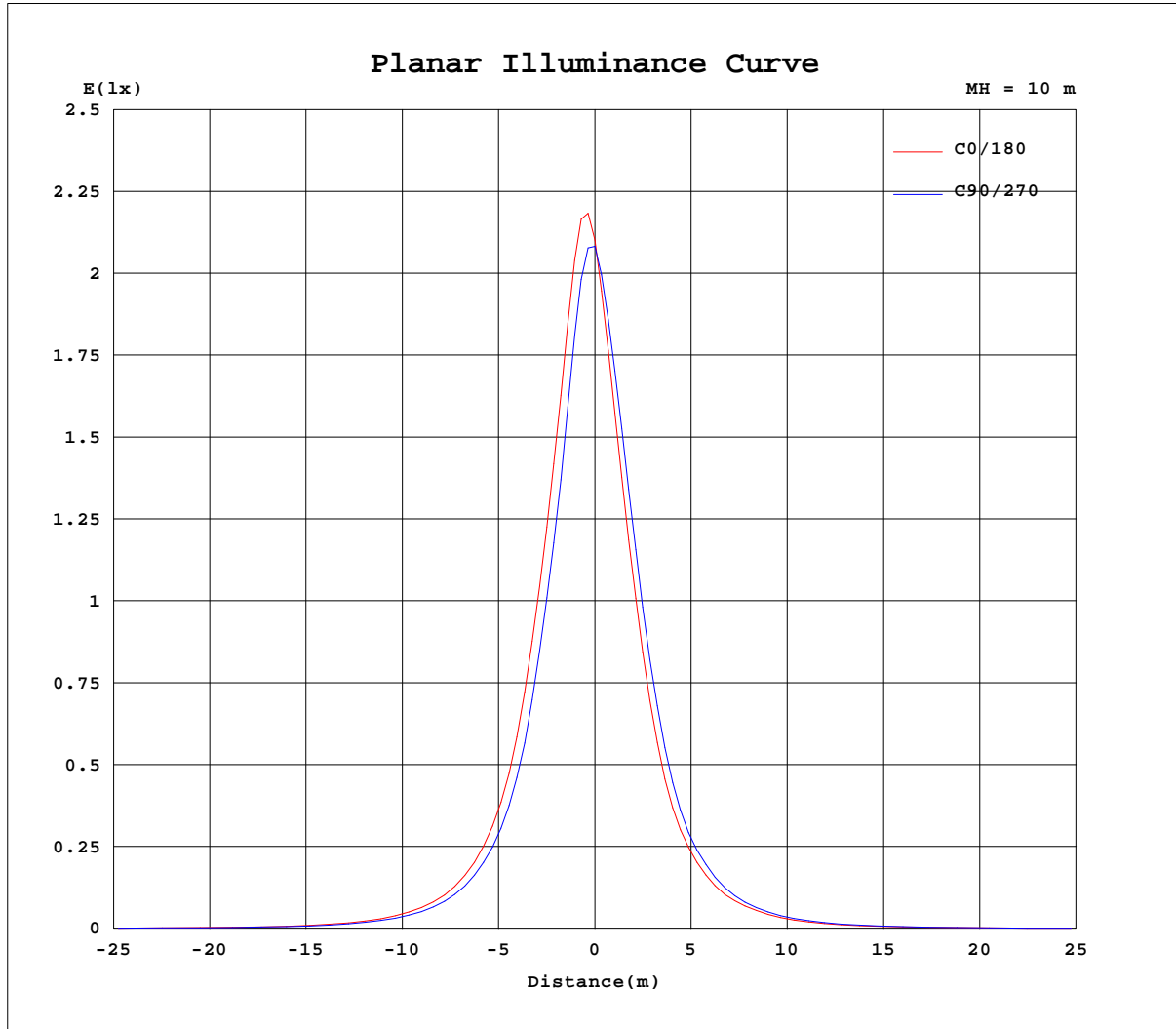
AvgL	cd/m2
L_0~180(65)av	5614
L_0~180(75)av	5966
L_0~180(85)av	4784
L_90~270(65)av	5547
L_90~270(75)av	6030
L_90~270(85)av	4100
L_45(65)av	5579
L_45(75)av	5949
L_45(85)av	4403

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LQL
 Test Date:20 October 2021

g Range: 0 - 90DEG
 g Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.403
 Humidity:65.0%
 Test Distance:10.365m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: LQL
 Test Date: 20 October 2021

Page Range: 0 - 90DEG
 Interval: 2.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.403
 Humidity: 65.0%
 Test Distance: 10.365m [K=1.0000]
 Remarks:

