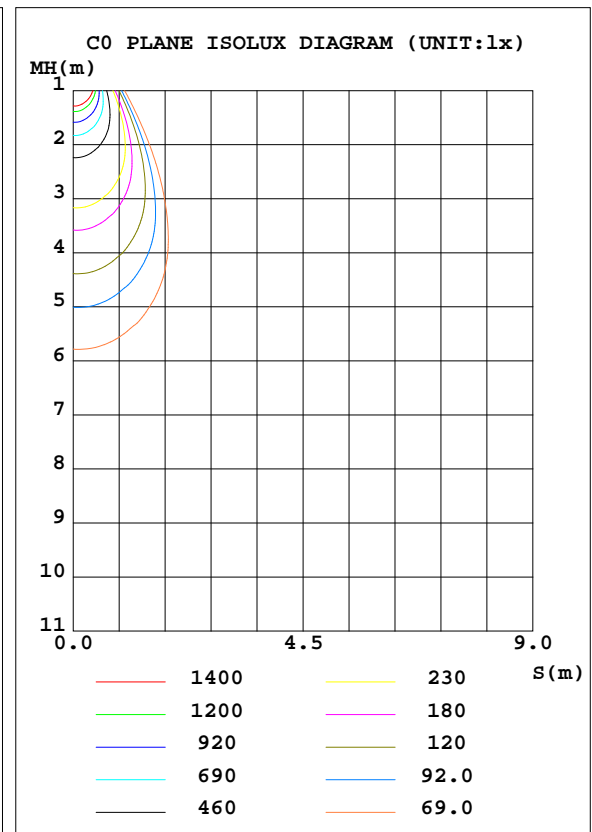
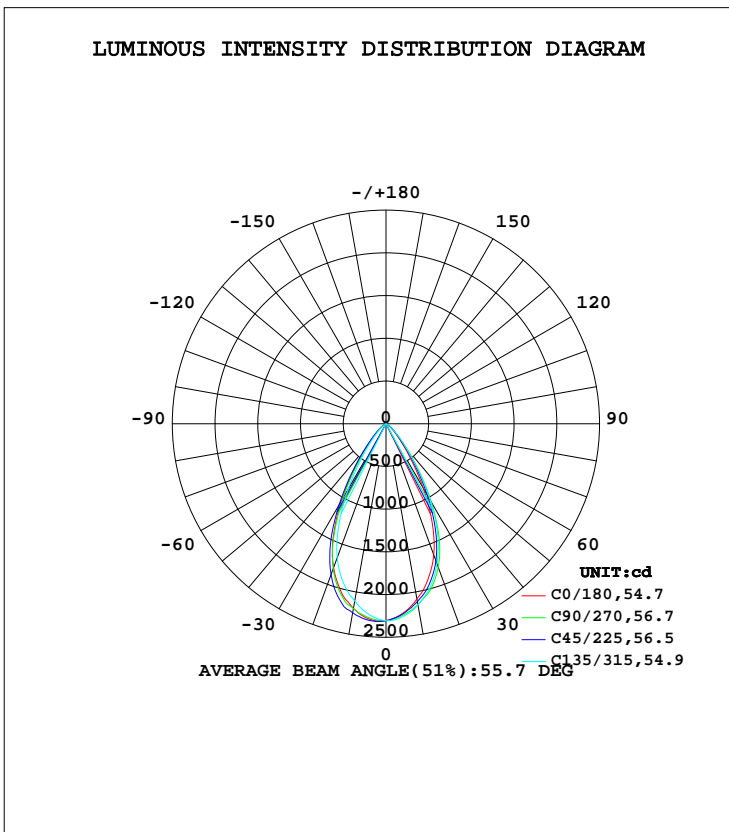


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.00V I:0.1040A P:24.200W PF:0.9650 Freq:49.99Hz Lamp Flux:2014.5lx1 lm		
NAME: CD25W-CC-W-IP65 3000K	TYPE: 25W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.0103	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 83.24 lm/W			
MODEL	CD25W-CC-W-IP65 3000K	I _{max} (cd)	2316	S/MH(C0/180)	0.82
NOMINAL POWER(W)	25	LOR(%)	100.0	S/MH(C90/270)	0.87
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	2014.5	η UP, DN(C0-180)	0.0,50.6
NOMINAL FLUX(lm)	2014.51	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,49.4
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	240	η down(%)	100.0	CIBSE SHR MAX	0.90



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-02-15

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:10.450m [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	2196	2247	2198	2108	2084	2114	2150	2155	0- 10	212.7	212.7	10.6,10.6
20	1793	1879	1808	1672	1636	1709	1788	1744	10- 20	555.9	768.6	38.2,38.2
30	1046	1104	1012	888.6	879.7	975.8	1063	1041	20- 30	637.4	1406	69.8,69.8
40	363.6	382.4	336.4	283.1	281.4	328.2	377.4	363.6	30- 40	390.5	1797	89.2,89.2
50	114.7	117.0	102.4	90.71	91.32	104.8	116.3	113.5	40- 50	150.8	1947	96.7,96.7
60	24.04	21.73	16.95	16.47	18.31	22.86	27.01	26.57	50- 60	52.66	2000	99.3,99.3
70	5.318	5.748	5.531	5.377	5.369	6.037	6.052	5.709	60- 70	9.438	2009	99.8,99.8
80	2.088	1.978	1.869	1.773	1.816	2.047	2.116	2.179	70- 80	3.809	2013	99.9,99.9
90	0.0952	0.0880	0.0952	0.1026	0.1025	0.0946	0.1830	0.2198	80- 90	1.213	2015	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): 1890.4 lm

%lum = 93.8%
 %lamp = 93.8%

Conical surface Flux(120deg): 2000 lm

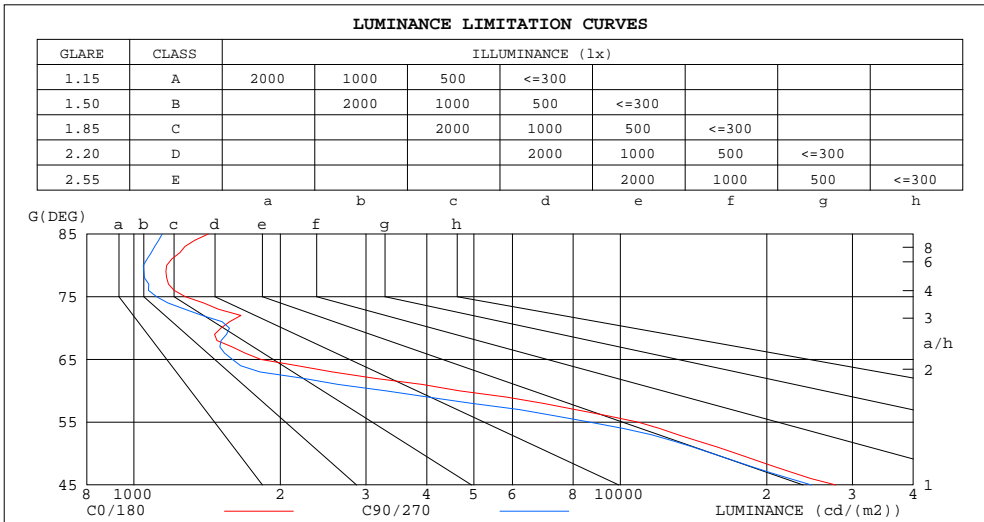
%lum = 99.3%
 %lamp = 99.3%

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-02-15

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:10.450m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:240.00V I:0.1040A P:24.200W PF:0.9650 Freq:49.99Hz Lamp Flux:2014.5lx1 lm		
NAME: CD25W-CC-W-IP65 3000K	TYPE: 25W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.0103	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1422	1144
80	1168	1046
75	1276	1113
70	1510	1571
65	1824	1595
60	4669	3295
55	10887	8670
50	17334	15478
45	27709	24702

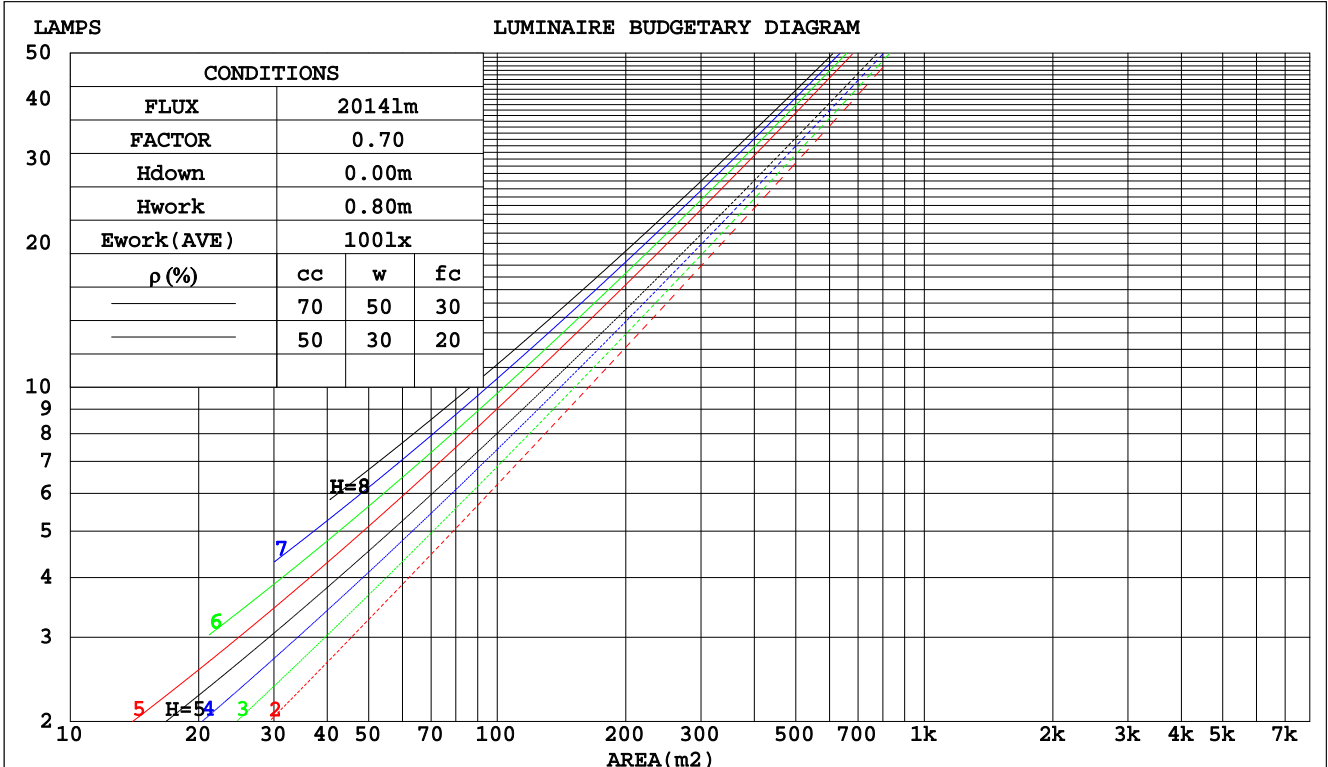
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-02-15

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity: 65.0%
 Test Distance: 10.450m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:240.00V I:0.1040A P:24.200W PF:0.9650 Freq:49.99Hz Lamp Flux:2014.5lx1 lm		
NAME: CD25W-CC-W-IP65 3000K	TYPE: 25W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.0103	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																
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	1.11	1.08	1.06	1.08	1.06	1.04	1.04	1.03	1.01	1.01	.99	.98	.97	.96	.95	.93
2.0	1.03	.99	.95	1.01	.97	.94	.98	.95	.92	.95	.92	.90	.92	.90	.88	.86
3.0	.96	.90	.86	.94	.89	.86	.91	.88	.84	.89	.86	.83	.87	.84	.82	.80
4.0	.89	.83	.79	.88	.83	.79	.86	.81	.78	.84	.80	.77	.82	.79	.76	.74
5.0	.83	.77	.73	.82	.77	.73	.81	.76	.72	.79	.75	.71	.77	.74	.71	.69
6.0	.78	.72	.68	.77	.72	.67	.76	.71	.67	.74	.70	.66	.73	.69	.66	.65
7.0	.73	.67	.63	.73	.67	.63	.71	.66	.62	.70	.65	.62	.69	.65	.62	.60
8.0	.69	.63	.59	.68	.63	.59	.67	.62	.58	.66	.62	.58	.65	.61	.58	.56
9.0	.65	.59	.55	.65	.59	.55	.64	.58	.55	.63	.58	.55	.62	.58	.54	.53
10.0	.62	.56	.52	.61	.56	.52	.60	.55	.52	.60	.55	.51	.59	.54	.51	.50



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-02-15

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:10.450m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:240.00V I:0.1040A P:24.200W PF:0.9650 Freq:49.99Hz Lamp Flux:2014.5lx1 lm		
NAME: CD25W-CC-W-IP65 3000K	TYPE: 25W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.0103	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.182	.103	.033	.175	.100	.032	.162	.093	.030	.151	.087	.028	.140	.081	.026	
2.0	.175	.096	.029	.169	.093	.029	.158	.088	.027	.148	.083	.026	.139	.079	.025	
3.0	.167	.089	.027	.162	.087	.026	.153	.083	.025	.144	.079	.024	.136	.075	.023	
4.0	.159	.082	.024	.154	.081	.024	.147	.078	.023	.139	.075	.023	.132	.072	.022	
5.0	.151	.077	.022	.148	.076	.022	.141	.073	.022	.134	.071	.021	.128	.069	.021	
6.0	.144	.072	.021	.141	.071	.021	.135	.069	.020	.129	.067	.020	.124	.065	.019	
7.0	.138	.068	.019	.135	.067	.019	.130	.065	.019	.124	.064	.019	.120	.062	.018	
8.0	.132	.064	.018	.129	.064	.018	.124	.062	.018	.120	.061	.018	.116	.059	.017	
9.0	.126	.061	.017	.124	.060	.017	.119	.059	.017	.115	.058	.017	.112	.057	.016	
10.0	.121	.058	.016	.119	.057	.016	.115	.056	.016	.111	.055	.016	.108	.054	.016	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	.171	.157	.144	.147	.135	.124	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.157	.132	.112	.134	.114	.097	.092	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.145	.114	.089	.124	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010	
4.0	.135	.099	.072	.115	.086	.062	.079	.060	.044	.046	.035	.026	.015	.011	.009	
5.0	.126	.087	.059	.108	.076	.051	.075	.053	.036	.043	.031	.021	.014	.010	.007	
6.0	.119	.078	.049	.102	.068	.043	.070	.047	.030	.041	.028	.018	.013	.009	.006	
7.0	.112	.071	.042	.097	.061	.036	.067	.043	.026	.039	.025	.015	.013	.008	.005	
8.0	.107	.065	.036	.092	.056	.031	.064	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.102	.059	.031	.088	.052	.027	.061	.036	.019	.035	.021	.011	.011	.007	.004	
10.0	.097	.055	.027	.084	.048	.024	.058	.034	.017	.034	.020	.010	.011	.007	.003	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-02-15

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:10.450m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:240.00V I:0.1040A P:24.200W PF:0.9650 Freq:49.99Hz										
Lamp Flux:2014.5lx1 lm										
NAME: CD25W-CC-W-IP65 3000K					TYPE: 25W			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.:		
MFR.:					SUR.: 0.0103			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	19.8	20.8	20.1	21.0	21.2	19.5	20.5	19.8	20.7	20.9
3H	19.7	20.6	19.9	20.8	21.0	19.4	20.3	19.6	20.5	20.7
4H	19.6	20.5	19.9	20.7	20.9	19.3	20.1	19.6	20.4	20.6
6H	19.5	20.3	19.8	20.6	20.8	19.2	20.0	19.5	20.3	20.5
8H	19.5	20.2	19.8	20.5	20.8	19.2	19.9	19.5	20.2	20.5
12H	19.4	20.2	19.8	20.4	20.7	19.1	19.9	19.5	20.1	20.4
4H 2H	19.6	20.5	19.9	20.7	20.9	19.3	20.2	19.6	20.4	20.6
3H	19.5	20.2	19.8	20.5	20.7	19.2	19.9	19.5	20.2	20.4
4H	19.4	20.0	19.7	20.3	20.7	19.1	19.7	19.4	20.0	20.4
6H	19.3	19.9	19.7	20.2	20.6	19.0	19.6	19.4	19.9	20.3
8H	19.3	19.8	19.6	20.1	20.5	19.0	19.5	19.3	19.8	20.2
12H	19.2	19.7	19.6	20.1	20.5	18.9	19.4	19.3	19.8	20.2
8H 4H	19.2	19.8	19.6	20.1	20.5	18.9	19.5	19.3	19.8	20.2
6H	19.2	19.6	19.6	20.0	20.4	18.9	19.3	19.3	19.7	20.1
8H	19.1	19.5	19.6	19.9	20.4	18.8	19.2	19.3	19.6	20.1
12H	19.1	19.4	19.5	19.8	20.3	18.8	19.1	19.2	19.5	20.0
12H 4H	19.2	19.7	19.6	20.1	20.4	18.9	19.4	19.3	19.8	20.1
6H	19.1	19.5	19.6	19.9	20.4	18.8	19.2	19.3	19.6	20.1
8H	19.1	19.4	19.5	19.8	20.3	18.8	19.1	19.2	19.5	20.0
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.6 / - 7.0					+ 2.5 / - 7.8				
1.5H	+ 3.9 / - 4.6					+ 3.8 / - 4.7				
2.0H	+ 4.8 / - 9.1					+ 4.6 / - 9.1				

CIE Pub.117, 2015 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 2.4)
 Area: 0.0103 m2

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-02-15

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:10.450m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:240.00V I:0.1040A P:24.200W PF:0.9650 Freq:49.99Hz Lamp Flux:2014.5lx1 lm		
NAME: CD25W-CC-W-IP65 3000K	TYPE: 25W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.0103	Shielding Angle:

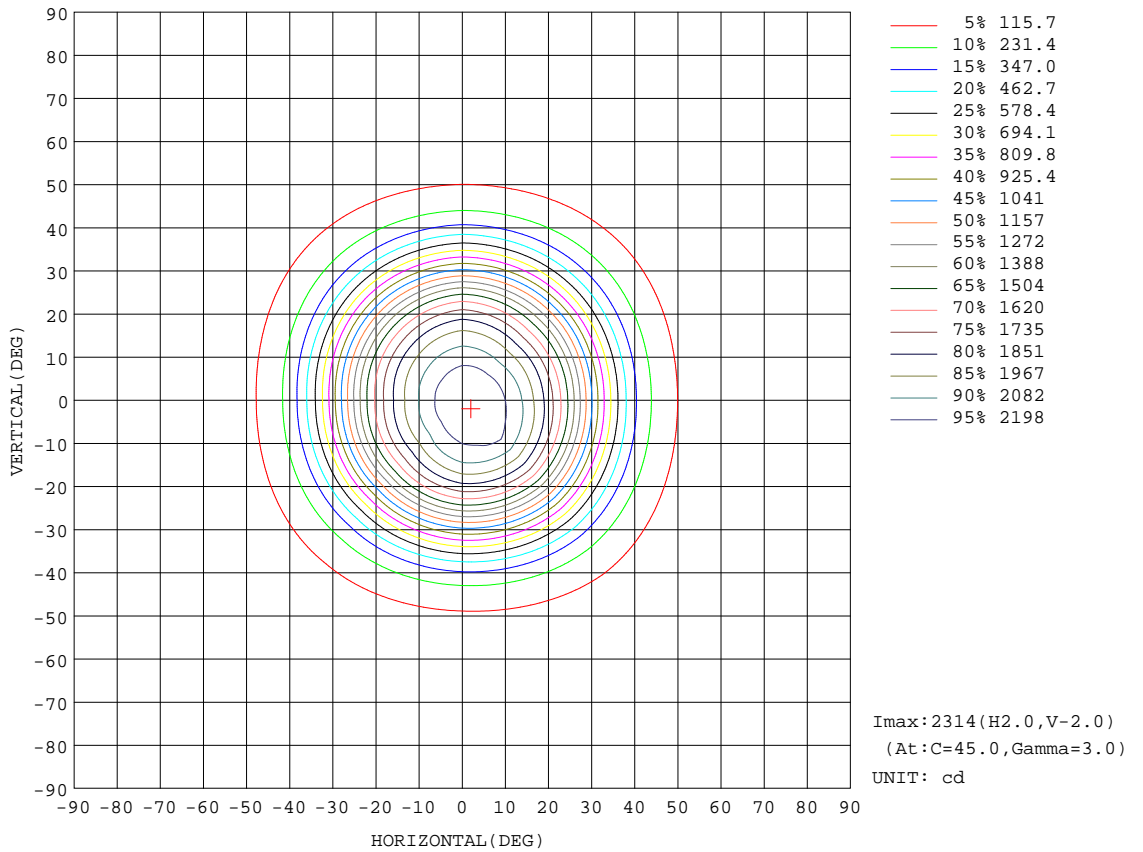
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	85	78	74	84	78	74	83	77	73	70
0.80	93	86	82	92	86	82	91	85	82	78
1.00	98	92	88	97	91	87	95	91	87	83
1.25	102	96	93	101	96	92	99	95	92	87
1.50	105	100	96	104	99	96	101	98	95	90
2.00	108	104	100	106	102	99	104	100	98	93
2.50	110	106	103	108	104	102	105	102	100	94
3.00	111	108	105	109	106	104	106	104	102	95
4.00	113	110	108	111	109	107	108	106	104	97
5.00	115	112	110	112	110	109	108	107	106	98
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-02-15

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:10.450m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:240.00V I:0.1040A P:24.200W PF:0.9650 Freq:49.99Hz Lamp Flux:2014.5lx1 lm		
NAME: CD25W-CC-W-IP65 3000K	TYPE: 25W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.0103	Shielding Angle:



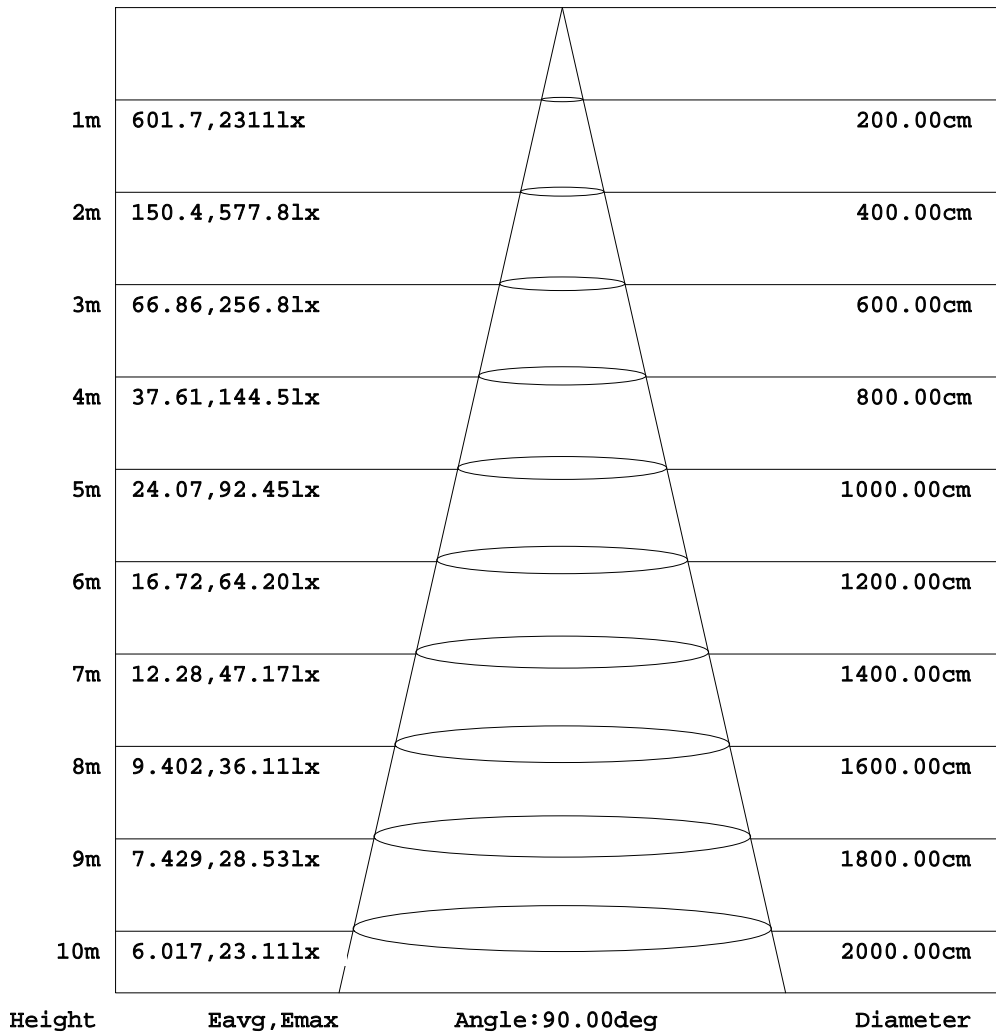
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-02-15

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity: 65.0%
 Test Distance: 10.450m [K=1.0000]
 Remarks:

AAI Figure

Test:U:240.00V I:0.1040A P:24.200W PF:0.9650 Freq:49.99Hz Lamp Flux:2014.5lx1 lm		
NAME: CD25W-CC-W-IP65 3000K	TYPE: 25W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.0103	Shielding Angle:

Flux out:1890 lm



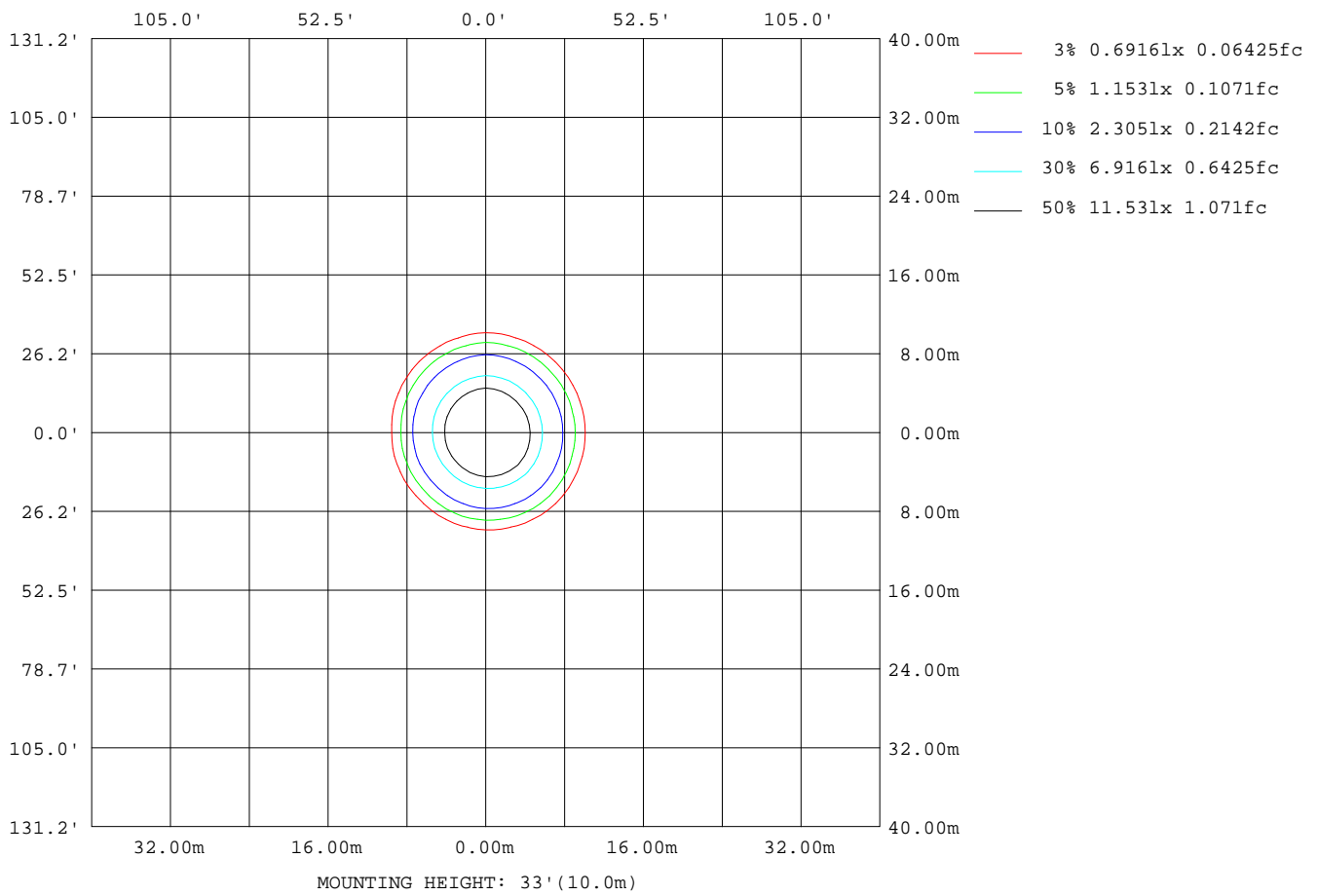
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-02-15

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:10.450m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:240.00V I:0.1040A P:24.200W PF:0.9650 Freq:49.99Hz Lamp Flux:2014.5lx1 lm		
NAME: CD25W-CC-W-IP65 3000K	TYPE: 25W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.0103	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-02-15

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity: 65.0%
 Test Distance: 10.450m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:240.00V I:0.1040A P:24.200W PF:0.9650 Freq:49.99Hz Lamp Flux:2014.5lx1 lm		
NAME: CD25W-CC-W-IP65 3000K	TYPE: 25W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.0103	Shielding Angle:

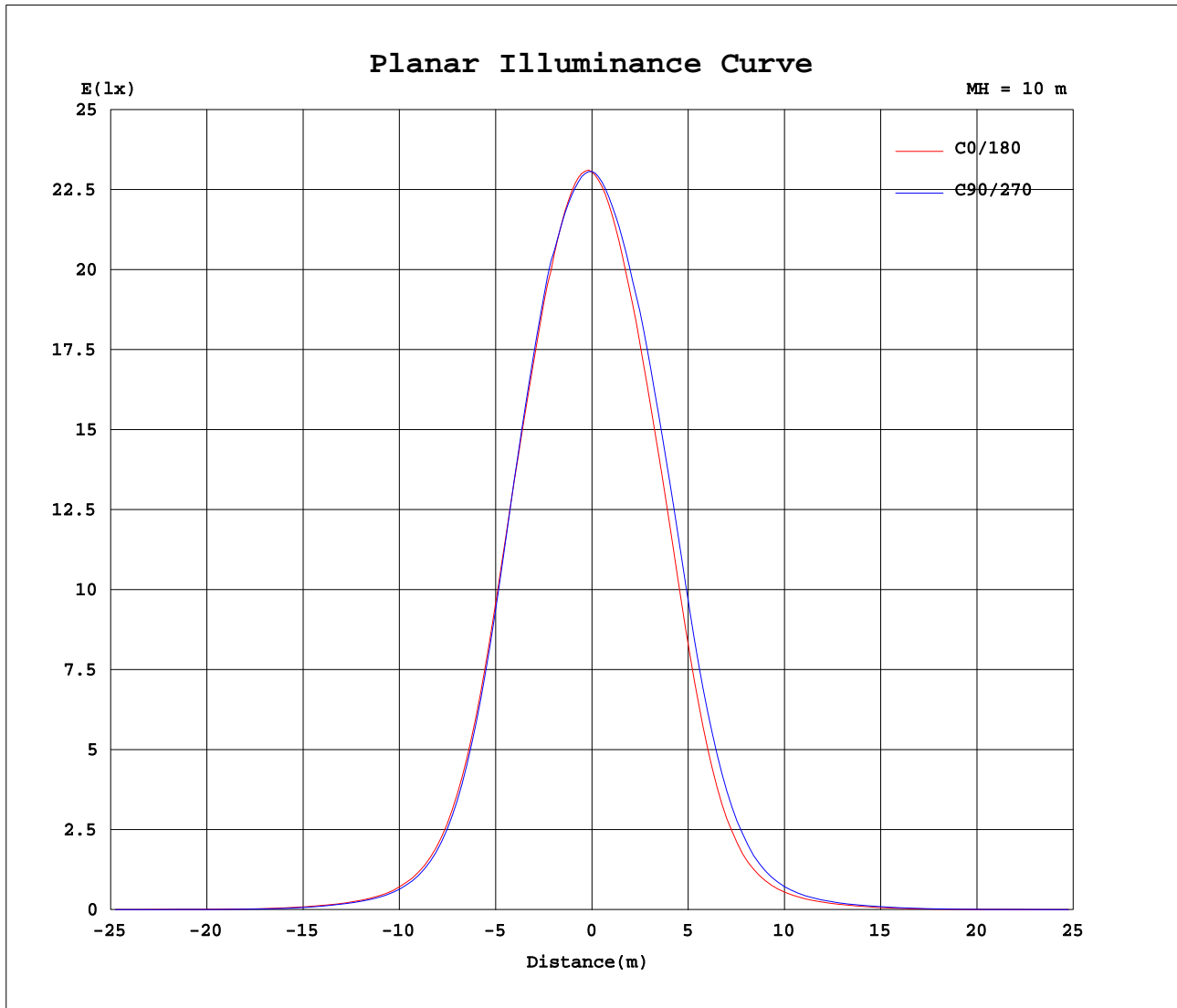
AvgL	cd/m2
L_0~180(65)av	1668
L_0~180(75)av	1192
L_0~180(85)av	1290
L_90~270(65)av	1771
L_90~270(75)av	1314
L_90~270(85)av	1346
L_45(65)av	1747
L_45(75)av	1257
L_45(85)av	1319

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-02-15

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:10.450m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-02-15

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity: 65.0%
 Test Distance: 10.450m [K=1.0000]
 Remarks:

