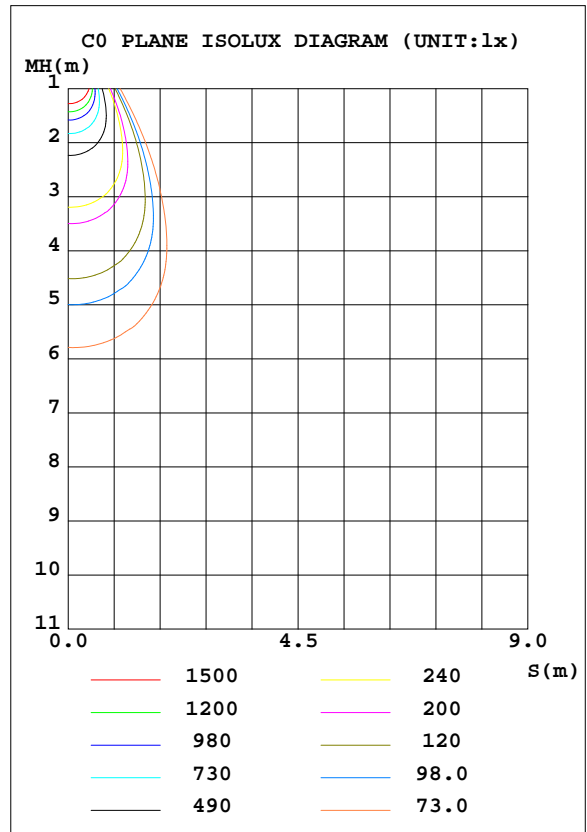
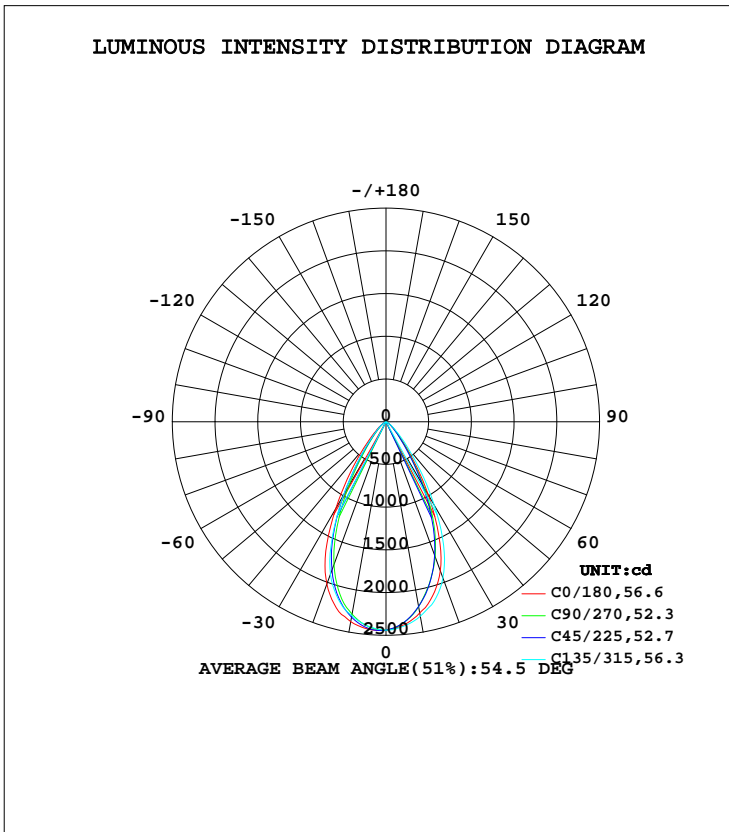


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.00V I:0.1080A P:25.200W PF:0.9670 Freq:49.99Hz Lamp Flux:2048.47x1 lm		
NAME: CD25W-CC-W-IP65 5000K	TYPE: 25W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.0103	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 81.29 lm/W			
MODEL	CD25W-CC-W-IP65 5000K	I _{max} (cd)	2444	S/MH(C0/180)	0.83
NOMINAL POWER(W)	25	LOR(%)	100.0	S/MH(C90/270)	0.81
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	2048.5	η UP, DN(C0-180)	0.0,50.9
NOMINAL FLUX(lm)	2048.47	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,49.1
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	240	η down(%)	100.0	CIBSE SHR MAX	0.85



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	2376	2322	2287	2305	2274	2196	2199	2312	0- 10	225.3	225.3	11,11
20	2023	1849	1780	1901	1859	1665	1682	1948	10- 20	585.8	811.1	39.6,39.6
30	1182	990.7	886.7	994.3	993.0	856.7	905.3	1138	20- 30	654.9	1466	71.6,71.6
40	408.1	299.1	258.4	313.4	314.6	267.4	284.0	397.3	30- 40	374.2	1840	89.8,89.8
50	125.4	98.18	85.06	97.91	99.36	91.95	97.17	123.1	40- 50	142.7	1983	96.8,96.8
60	25.41	20.43	15.72	17.33	19.37	21.74	25.07	28.21	50- 60	51.17	2034	99.3,99.3
70	5.687	5.336	5.064	5.572	5.716	5.697	5.568	6.021	60- 70	9.383	2044	99.8,99.8
80	2.182	1.860	1.753	1.855	1.944	1.944	1.962	2.264	70- 80	3.774	2047	99.9,99.9
90	0.0804	0.0733	0.0952	0.0808	0.0877	0.1100	0.1612	0.2276	80- 90	1.196	2048	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): 1928.5 lm

%lum = 94.1%
 %lamp = 94.1%

Conical surface Flux(120deg): 2034.1 lm

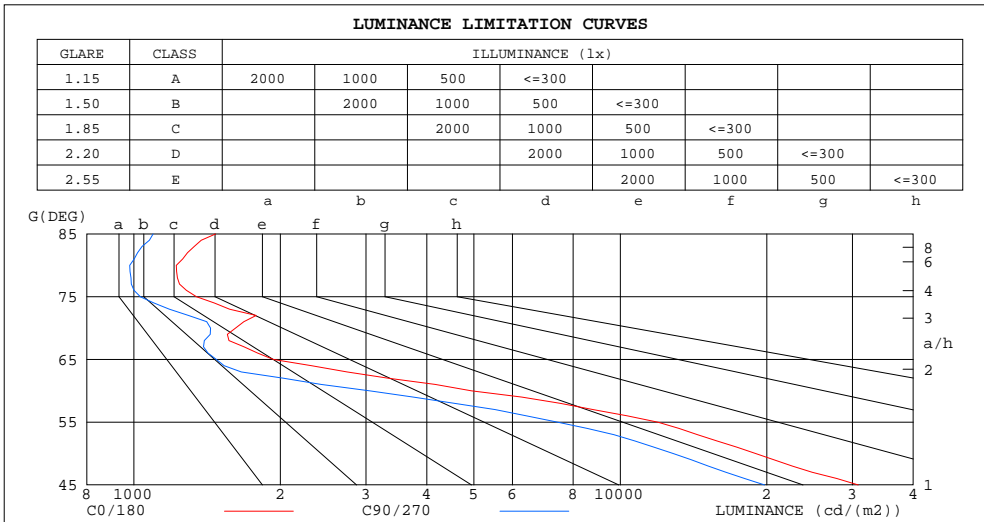
%lum = 99.3%
 %lamp = 99.3%

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:0.1080A P:25.200W PF:0.9670 Freq:49.99Hz Lamp Flux:2048.47x1 lm		
NAME: CD25W-CC-W-IP65 5000K	TYPE: 25W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.0103	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1471	1096
80	1223	980
75	1345	1030
70	1618	1438
65	1936	1478
60	4945	3053
55	11950	7435
50	18983	12849
45	30838	19798

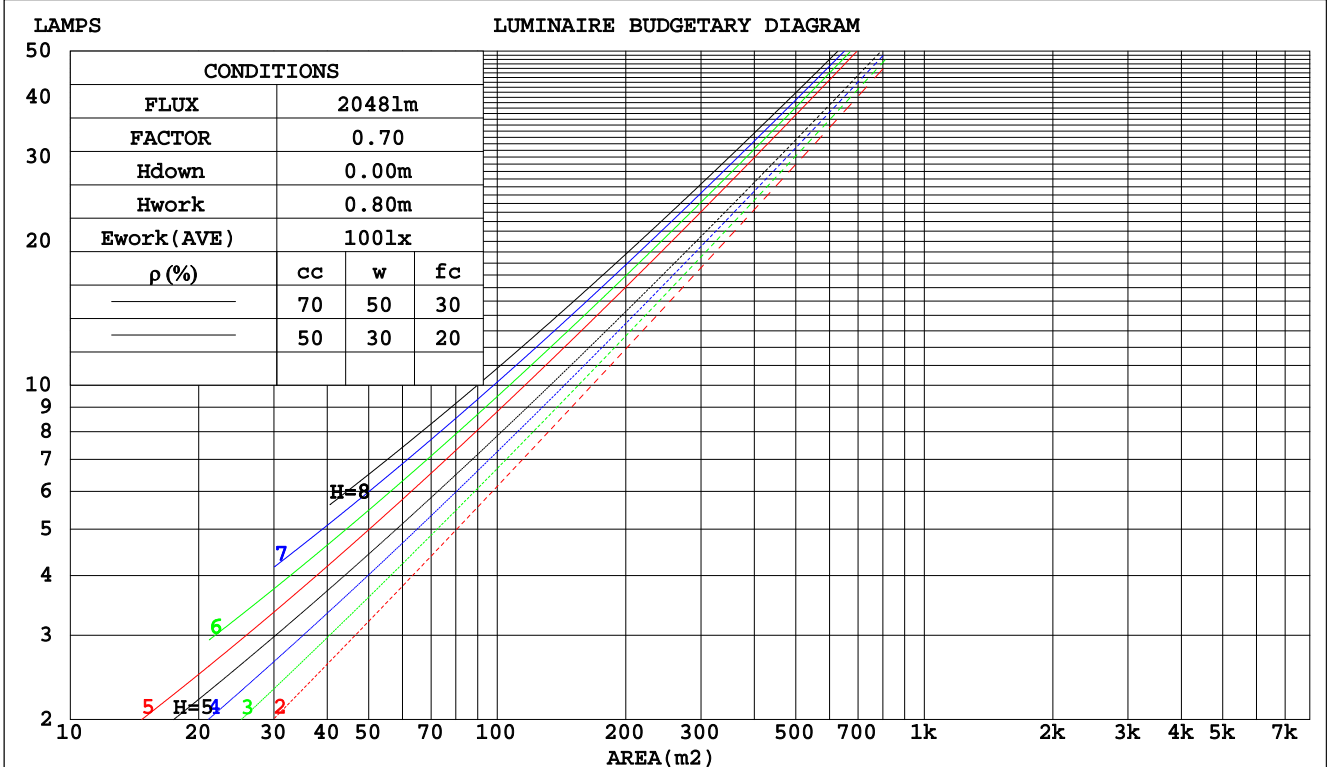
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-02-15

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:0.1080A P:25.200W PF:0.9670 Freq:49.99Hz Lamp Flux:2048.47x1 lm		
NAME: CD25W-CC-W-IP65 5000K	TYPE: 25W	WEIGHT:
SPEC.: 5000K	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	.87
3.0	.96	.91	.87	.94	.90	.86	.92	.88	.85	.89	.86	.83	.87	.84	.82	.81
4.0	.89	.84	.80	.88	.83	.79	.86	.82	.78	.84	.80	.77	.82	.79	.76	.75
5.0	.84	.78	.74	.83	.77	.73	.81	.76	.73	.79	.75	.72	.78	.74	.71	.70
6.0	.79	.73	.68	.78	.72	.68	.76	.71	.68	.75	.70	.67	.74	.70	.67	.65
7.0	.74	.68	.64	.73	.68	.63	.72	.67	.63	.71	.66	.63	.70	.66	.62	.61
8.0	.70	.64	.60	.69	.63	.59	.68	.63	.59	.67	.62	.59	.66	.62	.59	.57
9.0	.66	.60	.56	.65	.60	.56	.64	.59	.56	.63	.59	.55	.63	.58	.55	.54
10.0	.62	.57	.53	.62	.56	.53	.61	.56	.52	.60	.56	.52	.60	.55	.52	.51



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:0.1080A P:25.200W PF:0.9670 Freq:49.99Hz		
Lamp Flux:2048.47x1 lm		
NAME: CD25W-CC-W-IP65 5000K	TYPE: 25W	WEIGHT:
SPEC.: 5000K	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	.180	.102	.032	.173	.099	.031	.161	.092	.029	.149	.086	.028	.138	.080	.026	
2.0	.173	.095	.029	.167	.092	.028	.156	.087	.027	.147	.082	.026	.137	.078	.025	
3.0	.165	.088	.026	.160	.086	.026	.151	.082	.025	.142	.078	.024	.134	.074	.023	
4.0	.157	.081	.024	.153	.080	.024	.145	.077	.023	.137	.074	.022	.131	.071	.022	
5.0	.149	.076	.022	.146	.075	.022	.139	.072	.021	.132	.070	.021	.126	.068	.020	
6.0	.142	.071	.020	.139	.070	.020	.133	.068	.020	.128	.066	.019	.122	.064	.019	
7.0	.136	.067	.019	.133	.066	.019	.128	.065	.019	.123	.063	.018	.118	.061	.018	
8.0	.130	.064	.018	.128	.063	.018	.123	.061	.018	.118	.060	.017	.114	.059	.017	
9.0	.124	.060	.017	.122	.060	.017	.118	.058	.017	.114	.057	.016	.110	.056	.016	
10.0	.119	.057	.016	.117	.057	.016	.113	.056	.016	.110	.055	.016	.106	.054	.015	

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	.145	.147	.135	.124	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.156	.132	.112	.134	.114	.097	.092	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.144	.114	.089	.124	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010	
4.0	.134	.099	.072	.115	.085	.063	.079	.060	.044	.046	.035	.026	.015	.011	.009	
5.0	.125	.087	.059	.108	.076	.052	.074	.053	.036	.043	.031	.022	.014	.010	.007	
6.0	.118	.078	.049	.102	.068	.043	.070	.047	.030	.041	.028	.018	.013	.009	.006	
7.0	.112	.071	.042	.096	.061	.036	.066	.043	.026	.039	.025	.015	.012	.008	.005	
8.0	.106	.064	.036	.091	.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	.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:0.1080A P:25.200W PF:0.9670 Freq:49.99Hz Lamp Flux:2048.47x1 lm		
NAME: CD25W-CC-W-IP65 5000K	TYPE: 25W	WEIGHT:
SPEC.: 5000K	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	19.7	20.7	20.0	20.9	21.0	18.1	19.1	18.4	19.3	19.4
3H	19.6	20.5	19.9	20.7	20.9	18.0	18.9	18.2	19.1	19.3
4H	19.5	20.3	19.8	20.6	20.8	17.9	18.7	18.2	19.0	19.2
6H	19.4	20.2	19.7	20.5	20.7	17.8	18.6	18.1	18.8	19.1
8H	19.4	20.1	19.7	20.4	20.7	17.8	18.5	18.1	18.8	19.0
12H	19.3	20.1	19.7	20.3	20.6	17.7	18.5	18.1	18.7	19.0
4H 2H	19.5	20.4	19.8	20.6	20.8	17.9	18.8	18.2	19.0	19.2
3H	19.4	20.1	19.7	20.4	20.6	17.8	18.5	18.1	18.8	19.1
4H	19.3	19.9	19.6	20.2	20.5	17.7	18.4	18.1	18.7	19.0
6H	19.2	19.8	19.6	20.1	20.4	17.6	18.2	18.0	18.5	18.9
8H	19.2	19.7	19.5	20.0	20.4	17.6	18.1	18.0	18.5	18.8
12H	19.1	19.6	19.5	20.0	20.4	17.5	18.0	17.9	18.4	18.8
8H 4H	19.1	19.7	19.5	20.0	20.4	17.6	18.1	18.0	18.5	18.8
6H	19.1	19.5	19.5	19.9	20.3	17.5	17.9	17.9	18.3	18.7
8H	19.0	19.4	19.5	19.8	20.3	17.4	17.8	17.9	18.2	18.7
12H	19.0	19.3	19.4	19.7	20.2	17.4	17.7	17.9	18.2	18.6
12H 4H	19.1	19.6	19.5	19.9	20.3	17.5	18.0	17.9	18.4	18.8
6H	19.0	19.4	19.5	19.8	20.2	17.4	17.8	17.9	18.2	18.7
8H	19.0	19.3	19.4	19.7	20.2	17.4	17.7	17.9	18.2	18.6
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 3.4 / - 6.6					+ 2.5 / - 6.9				
1.5H	+ 4.8 / - 5.0					+ 3.6 / - 4.1				
2.0H	+ 5.4 / - 9.3					+ 4.4 / - 8.4				

CIE Pub.117, 2048 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 2.5)
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:0.1080A P:25.200W PF:0.9670 Freq:49.99Hz Lamp Flux:2048.47x1 lm		
NAME: CD25W-CC-W-IP65 5000K	TYPE: 25W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.0103	Shielding Angle:

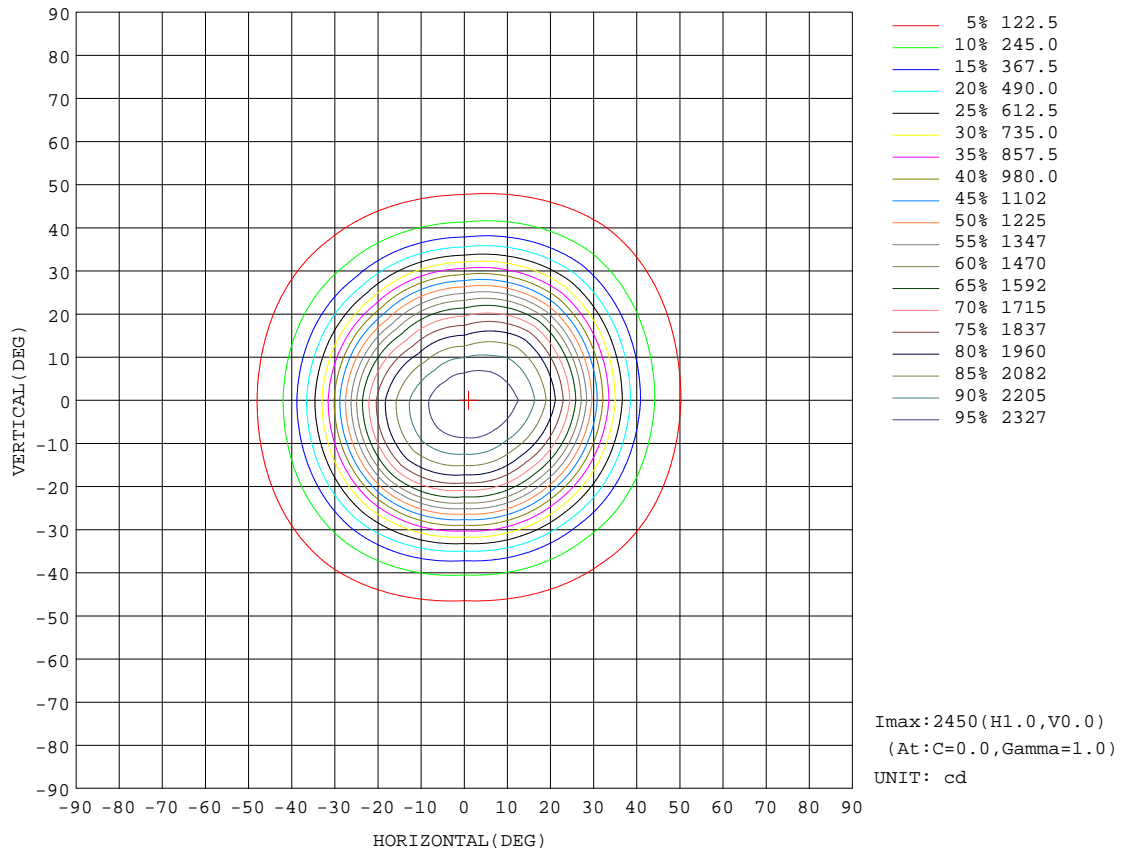
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	85	78	74	84	78	74	84	78	74	70
0.80	93	87	83	92	86	83	91	86	82	78
1.00	98	92	88	97	92	88	95	91	87	83
1.25	102	97	93	101	96	93	99	95	92	88
1.50	105	100	97	104	99	96	102	98	95	90
2.00	108	104	100	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	111	108	105	110	106	104	106	104	102	95
4.00	113	111	108	111	109	107	108	106	104	97
5.00	115	112	110	113	110	109	109	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:0.1080A P:25.200W PF:0.9670 Freq:49.99Hz Lamp Flux:2048.47x1 lm		
NAME: CD25W-CC-W-IP65 5000K	TYPE: 25W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.0103	Shielding Angle:



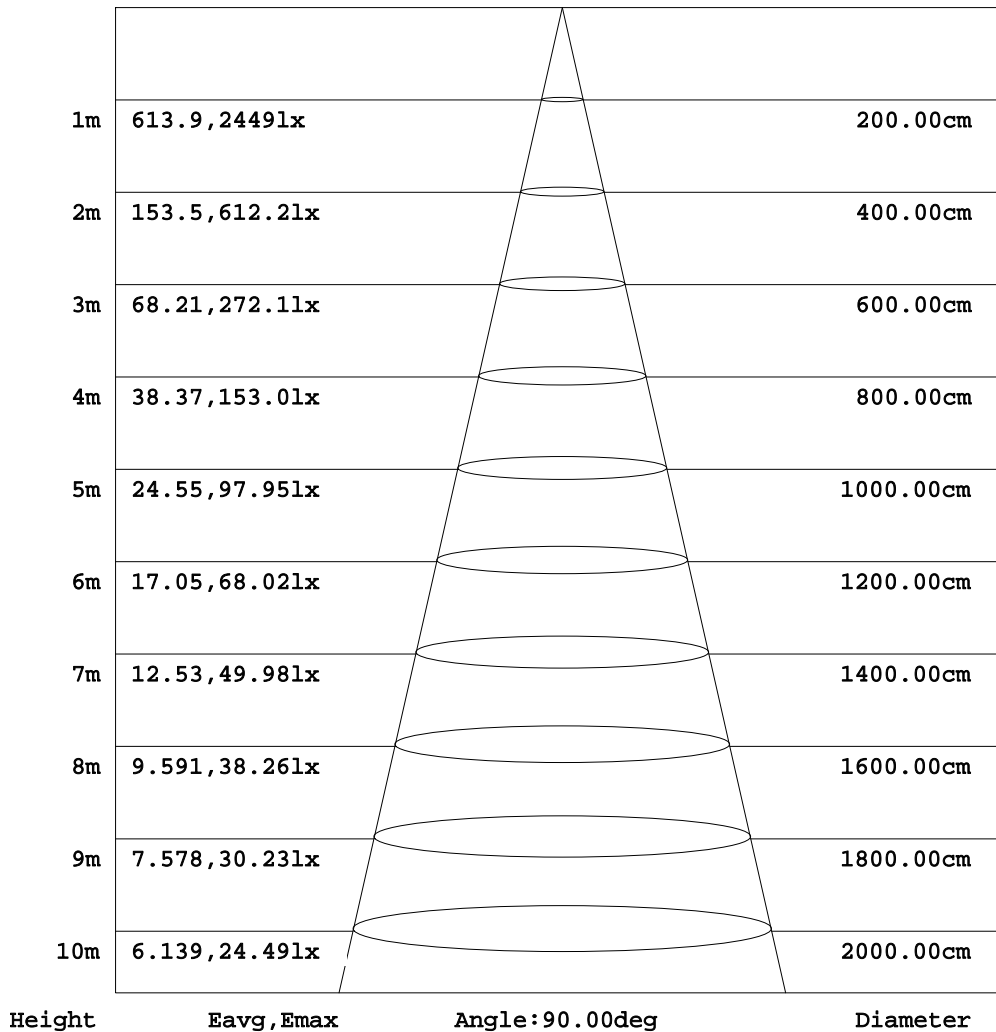
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-02-15

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:0.1080A P:25.200W PF:0.9670 Freq:49.99Hz Lamp Flux:2048.47x1 lm		
NAME: CD25W-CC-W-IP65 5000K	TYPE: 25W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.0103	Shielding Angle:

Flux out:1928 lm



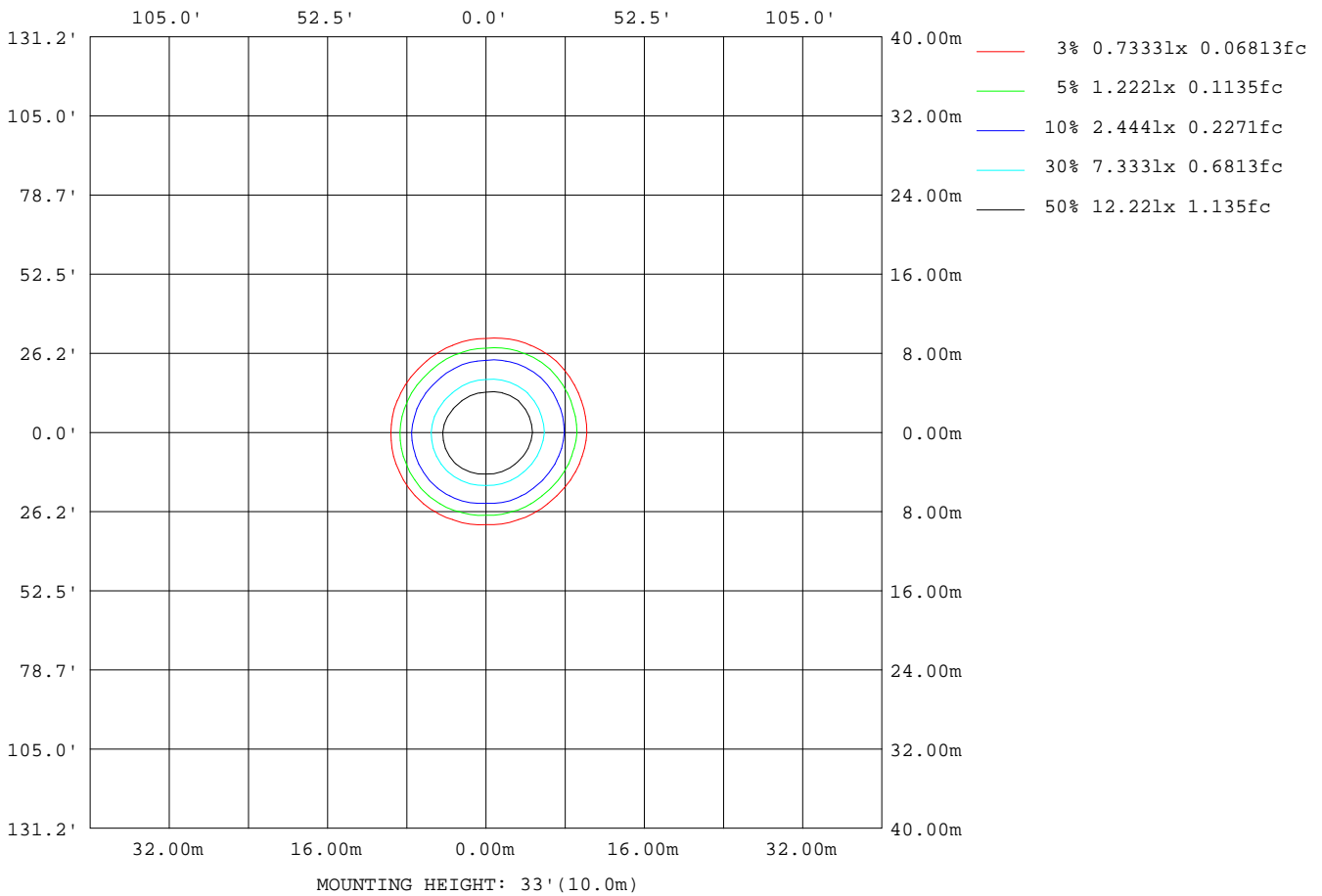
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.1080A P:25.200W PF:0.9670 Freq:49.99Hz Lamp Flux:2048.47x1 lm		
NAME: CD25W-CC-W-IP65 5000K	TYPE: 25W	WEIGHT:
SPEC.: 5000K	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:0.1080A P:25.200W PF:0.9670 Freq:49.99Hz Lamp Flux:2048.47x1 lm		
NAME: CD25W-CC-W-IP65 5000K	TYPE: 25W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.0103	Shielding Angle:

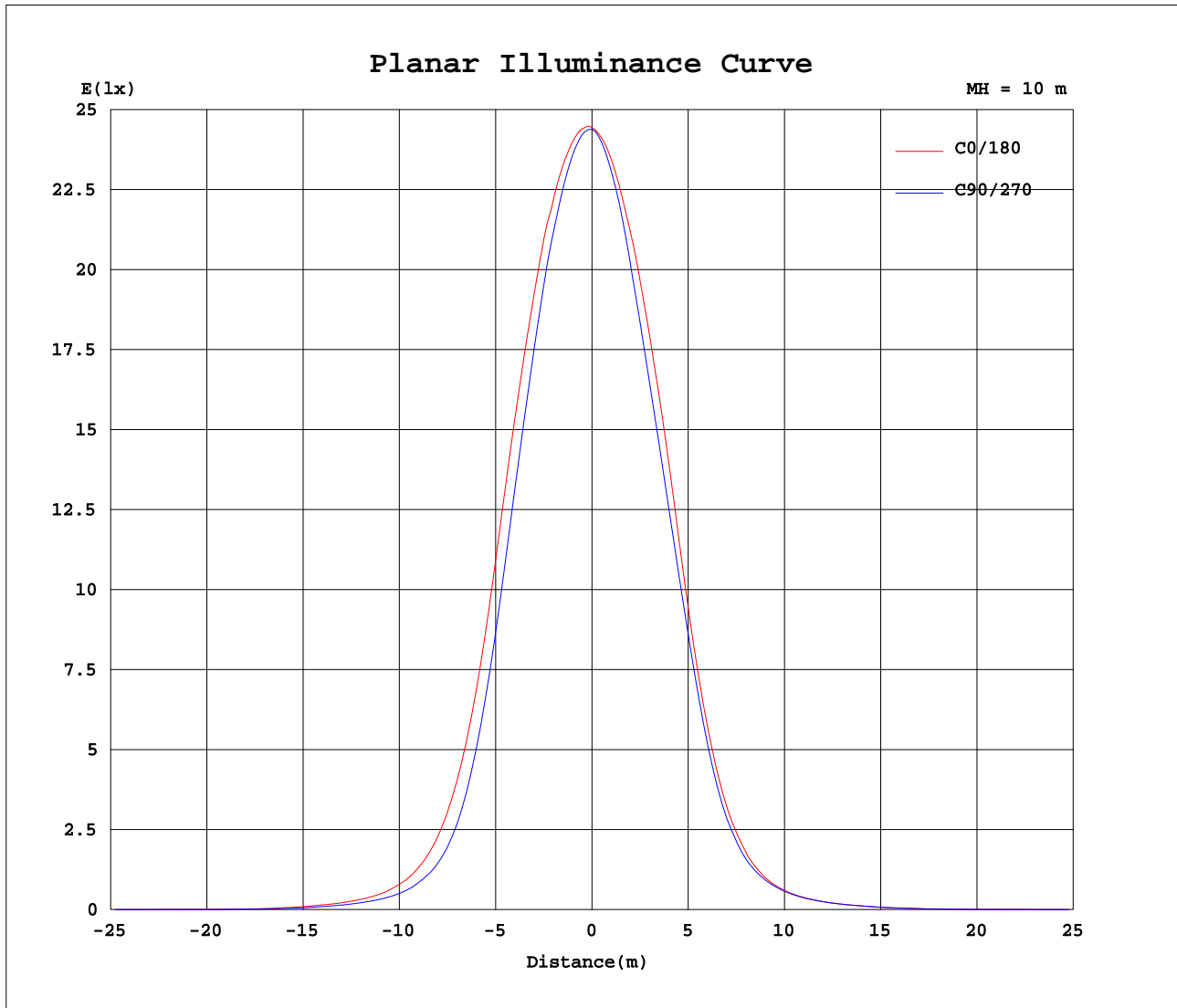
AvgL	cd/m2
L_0~180(65)av	1769
L_0~180(75)av	1261
L_0~180(85)av	1336
L_90~270(65)av	1632
L_90~270(75)av	1215
L_90~270(85)av	1253
L_45(65)av	1739
L_45(75)av	1252
L_45(85)av	1297

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:240.00V I:0.1080A P:25.200W PF:0.9670 Freq:49.99Hz Lamp Flux:2048.47x1 lm		
NAME: CD25W-CC-W-IP65 5000K	TYPE: 25W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.0103	Shielding Angle:

Table--1

UNIT: cd

C(DEG)\γ (DEG)	0	45	90	135	180	225	270	315									
0	2438	2438	2438	2438	2438	2438	2438	2438									
5	2435	2427	2405	2402	2387	2361	2361	2401									
10	2376	2322	2287	2305	2274	2196	2199	2312									
15	2254	2136	2089	2155	2109	1967	1962	2177									
20	2023	1849	1780	1901	1859	1665	1682	1948									
25	1667	1462	1360	1487	1462	1280	1328	1597									
30	1182	991	887	994	993	857	905	1138									
35	733	567	488	578	583	489	519	710									
40	408	299	258	313	315	267	284	397									
45	224	166	144	170	170	153	162	220									
50	125	98.2	85.1	97.9	99.4	92.0	97.2	123									
55	70.4	53.4	43.9	50.6	54.2	52.1	56.2	70.2									
60	25.4	20.4	15.7	17.3	19.4	21.7	25.1	28.2									
65	8.41	7.09	6.43	6.98	6.99	7.11	7.78	9.09									
70	5.69	5.34	5.06	5.57	5.72	5.70	5.57	6.02									
75	3.58	3.05	2.75	2.93	3.15	3.39	3.73	3.97									
80	2.18	1.86	1.75	1.86	1.94	1.94	1.96	2.26									
85	1.32	1.05	0.98	0.97	1.08	1.21	1.27	1.43									
90	0.08	0.07	0.10	0.08	0.09	0.11	0.16	0.23									

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
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γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
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