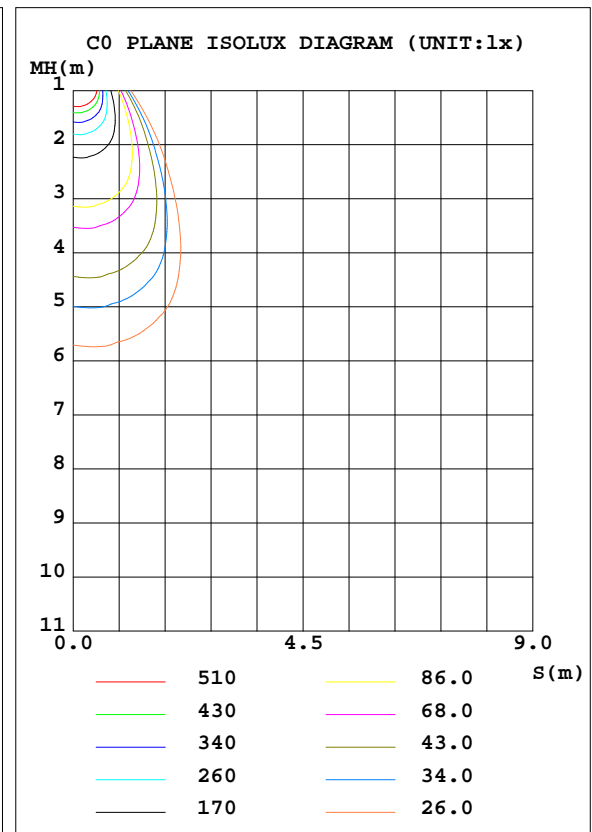
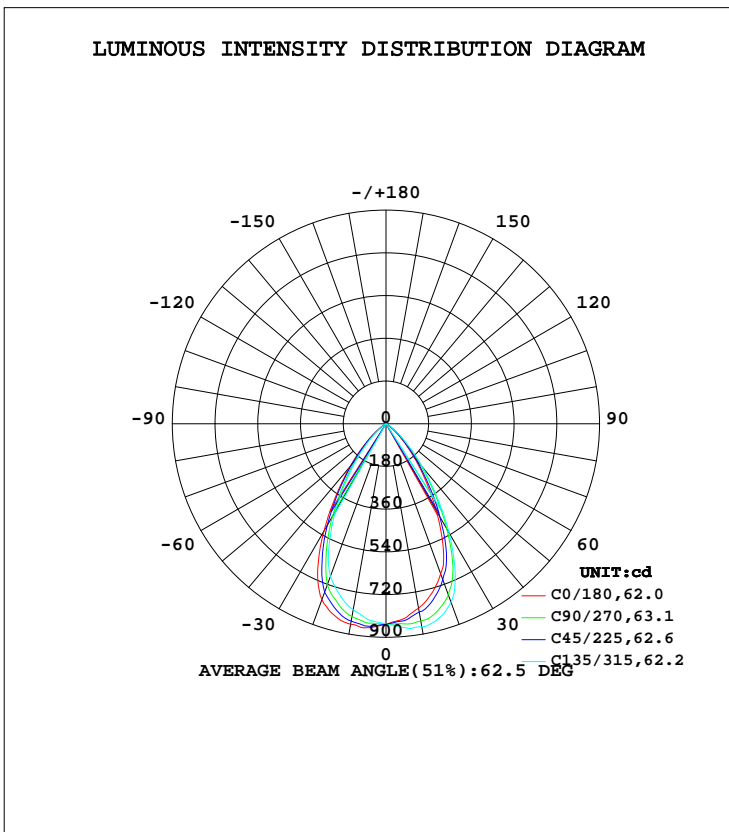


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.00V I:0.0450A P:9.6100W PF:0.8870 Freq:49.99Hz Lamp Flux:926.082x1 lm		
NAME: CD10W-CC-W-IP65 5000K	TYPE: 10W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.00636	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 96.37 lm/W			
MODEL	CD10W-CC-W-IP65 5000K	I _{max} (cd)	869.8	S/MH(C0/180)	0.90
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	0.97
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	926.08	η UP, DN(C0-180)	0.0,49.7
NOMINAL FLUX(lm)	926.082	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,50.3
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	240	η down(%)	100.0	CIBSE SHR MAX	0.95



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	858.0	844.6	825.3	795.6	788.8	805.5	843.5	868.9	0- 10	80.05	80.05	8.64,8.64
20	789.1	755.8	722.4	684.5	673.0	699.7	767.2	800.9	10- 20	222.9	303.0	32.7,32.7
30	524.0	495.3	450.6	427.6	426.0	455.4	512.8	533.8	20- 30	283.3	586.3	63.3,63.3
40	237.1	226.1	198.1	185.4	183.7	201.5	229.9	242.1	30- 40	207.8	794.1	85.8,85.8
50	72.64	66.70	56.94	51.59	53.58	60.36	71.83	75.28	40- 50	97.53	891.7	96.3,96.3
60	12.22	10.89	9.580	8.892	8.650	10.13	12.48	13.34	50- 60	25.76	917.4	99.1,99.1
70	3.462	3.853	3.880	3.960	3.417	3.663	3.959	3.769	60- 70	5.493	922.9	99.7,99.7
80	1.111	1.016	1.065	1.006	1.059	1.187	1.347	1.309	70- 80	2.533	925.4	99.9,99.9
90	0.0219	0	0.0147	0	0.0146	0.0073	0	0.0078	80- 90	0.6386	926.1	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): 855.13 lm

%lum = 92.3%
 %lamp = 92.3%

Conical surface Flux(120deg): 917.42 lm

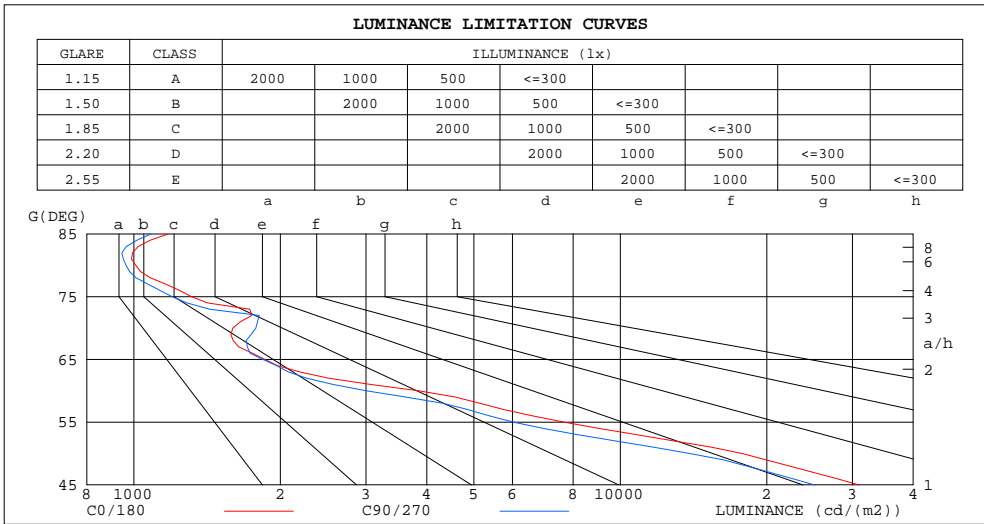
%lum = 99.1%
 %lamp = 99.1%

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:0.0450A P:9.6100W PF:0.8870 Freq:49.99Hz Lamp Flux:926.082x1 lm		
NAME: CD10W-CC-W-IP65 5000K	TYPE: 10W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.00636	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1176	1085
80	1009	963
75	1314	1199
70	1597	1782
65	1860	1842
60	3855	3010
55	7678	6039
50	17828	13915
45	30926	25063

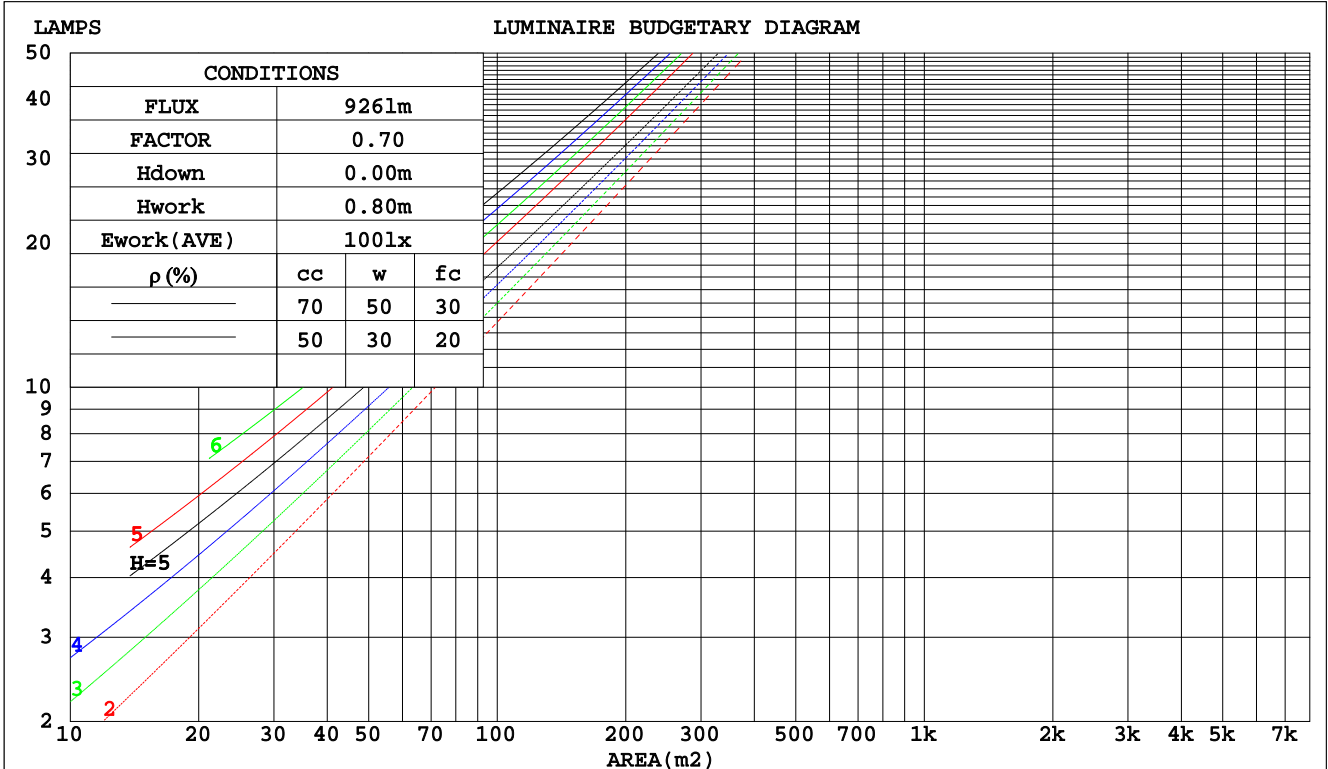
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-02-15

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:0.0450A P:9.6100W PF:0.8870 Freq:49.99Hz Lamp Flux:926.082x1 lm		
NAME: CD10W-CC-W-IP65 5000K	TYPE: 10W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.00636	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	1.10	1.08	1.05	1.08	1.06	1.03	1.04	1.02	1.00	1.00	.99	.97	.97	.96	.94	.93
2.0	1.02	.97	.94	1.00	.96	.93	.97	.94	.91	.94	.91	.89	.91	.89	.87	.85
3.0	.94	.89	.85	.93	.88	.84	.90	.86	.83	.88	.84	.81	.85	.83	.80	.78
4.0	.87	.81	.77	.86	.81	.77	.84	.79	.76	.82	.78	.75	.80	.77	.74	.72
5.0	.81	.75	.70	.80	.74	.70	.78	.73	.69	.77	.72	.69	.75	.71	.68	.67
6.0	.76	.69	.65	.75	.69	.65	.73	.68	.64	.72	.67	.64	.71	.66	.63	.62
7.0	.71	.64	.60	.70	.64	.60	.69	.63	.59	.68	.63	.59	.66	.62	.59	.57
8.0	.66	.60	.56	.66	.60	.55	.65	.59	.55	.63	.59	.55	.62	.58	.55	.53
9.0	.62	.56	.52	.62	.56	.52	.61	.55	.51	.60	.55	.51	.59	.54	.51	.50
10.0	.59	.52	.48	.58	.52	.48	.57	.52	.48	.56	.51	.48	.56	.51	.48	.46



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:0.0450A P:9.6100W PF:0.8870 Freq:49.99Hz Lamp Flux:926.082x1 lm		
NAME: CD10W-CC-W-IP65 5000K	TYPE: 10W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.00636	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	.189	.108	.034	.183	.104	.033	.170	.098	.031	.158	.091	.029	.148	.086	.028	
2.0	.183	.100	.031	.177	.098	.030	.166	.092	.029	.156	.088	.027	.147	.083	.026	
3.0	.175	.093	.028	.170	.091	.027	.161	.087	.026	.152	.083	.026	.144	.080	.025	
4.0	.167	.087	.025	.162	.085	.025	.154	.082	.024	.147	.079	.024	.140	.076	.023	
5.0	.159	.081	.023	.155	.080	.023	.148	.077	.023	.142	.075	.022	.136	.072	.022	
6.0	.152	.076	.022	.148	.075	.022	.142	.073	.021	.136	.071	.021	.131	.069	.020	
7.0	.145	.072	.020	.142	.071	.020	.136	.069	.020	.131	.067	.020	.126	.066	.019	
8.0	.138	.068	.019	.136	.067	.019	.131	.065	.019	.126	.064	.018	.122	.063	.018	
9.0	.132	.064	.018	.130	.063	.018	.126	.062	.018	.121	.061	.017	.117	.060	.017	
10.0	.127	.061	.017	.125	.060	.017	.121	.059	.017	.117	.058	.016	.113	.057	.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	.172	.157	.144	.147	.135	.124	.101	.093	.086	.058	.054	.050	.019	.017	.016	
2.0	.158	.132	.111	.135	.114	.096	.093	.079	.067	.053	.046	.039	.017	.015	.013	
3.0	.146	.114	.088	.125	.098	.076	.086	.068	.053	.050	.040	.031	.016	.013	.010	
4.0	.137	.099	.071	.117	.086	.061	.081	.060	.043	.047	.035	.026	.015	.011	.008	
5.0	.128	.088	.058	.110	.076	.050	.076	.053	.036	.044	.031	.021	.014	.010	.007	
6.0	.121	.079	.048	.104	.068	.042	.072	.048	.030	.042	.028	.018	.013	.009	.006	
7.0	.115	.071	.041	.099	.062	.035	.068	.043	.025	.040	.026	.015	.013	.008	.005	
8.0	.109	.065	.035	.094	.057	.030	.065	.040	.021	.038	.023	.013	.012	.008	.004	
9.0	.104	.060	.030	.090	.052	.026	.062	.037	.019	.036	.022	.011	.012	.007	.004	
10.0	.100	.056	.026	.086	.048	.023	.060	.034	.016	.035	.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:0.0450A P:9.6100W PF:0.8870 Freq:49.99Hz Lamp Flux:926.082x1 lm		
NAME: CD10W-CC-W-IP65 5000K	TYPE: 10W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.00636	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	20.2	21.3	20.5	21.4	21.6	19.6	20.6	19.8	20.8	20.9
3H	20.1	21.0	20.3	21.2	21.4	19.4	20.3	19.7	20.5	20.8
4H	20.0	20.9	20.3	21.1	21.3	19.3	20.2	19.6	20.4	20.7
6H	19.9	20.7	20.2	21.0	21.2	19.2	20.1	19.5	20.3	20.6
8H	19.9	20.7	20.2	20.9	21.2	19.2	20.0	19.5	20.3	20.5
12H	19.8	20.6	20.2	20.9	21.1	19.1	19.9	19.5	20.2	20.5
4H 2H	20.0	20.9	20.3	21.1	21.3	19.3	20.2	19.6	20.4	20.7
3H	19.8	20.6	20.2	20.9	21.2	19.2	19.9	19.5	20.2	20.5
4H	19.8	20.5	20.1	20.8	21.1	19.1	19.8	19.5	20.1	20.4
6H	19.7	20.3	20.1	20.6	21.0	19.0	19.6	19.4	20.0	20.3
8H	19.6	20.2	20.0	20.6	20.9	19.0	19.5	19.4	19.9	20.3
12H	19.6	20.1	20.0	20.5	20.9	18.9	19.4	19.3	19.8	20.2
8H 4H	19.6	20.2	20.0	20.5	20.9	19.0	19.5	19.4	19.9	20.3
6H	19.5	20.0	20.0	20.4	20.8	18.9	19.3	19.3	19.7	20.2
8H	19.5	19.9	20.0	20.3	20.8	18.8	19.2	19.3	19.7	20.1
12H	19.5	19.8	19.9	20.2	20.7	18.8	19.1	19.3	19.6	20.1
12H 4H	19.6	20.1	20.0	20.5	20.9	18.9	19.4	19.3	19.8	20.2
6H	19.5	19.9	19.9	20.3	20.8	18.8	19.2	19.3	19.7	20.1
8H	19.5	19.8	19.9	20.2	20.7	18.8	19.1	19.3	19.6	20.1
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.5 / - 8.5					+ 2.4 / - 8.6				
1.5H	+ 3.8 / - 6.8					+ 3.4 / - 6.5				
2.0H	+ 5.9 / - 9.2					+ 5.4 / - 8.3				

CIE Pub.117, 926.1 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -0.3)
Area: 0.00636 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:0.0450A P:9.6100W PF:0.8870 Freq:49.99Hz Lamp Flux:926.082x1 lm		
NAME: CD10W-CC-W-IP65 5000K	TYPE: 10W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.00636	Shielding Angle:

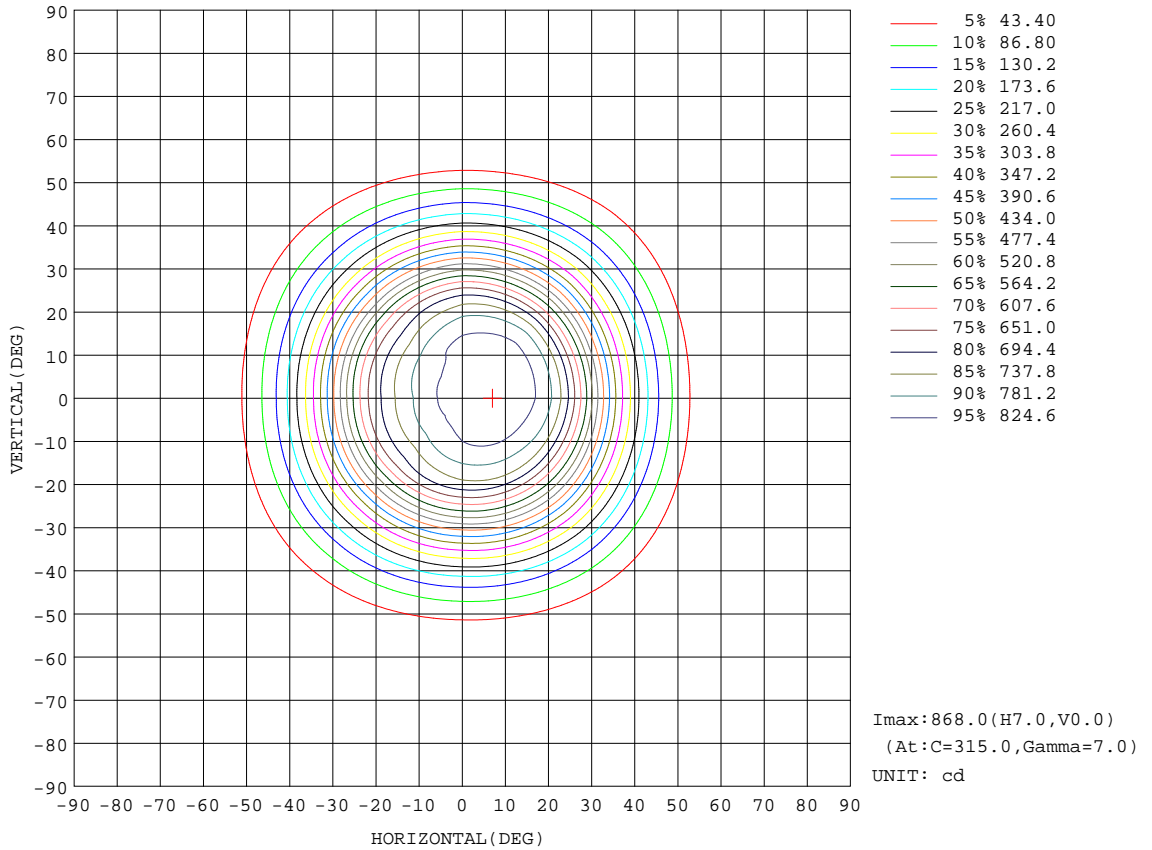
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	82	75	71	82	75	71	81	75	71	67
0.80	91	84	80	90	84	80	89	83	79	75
1.00	96	90	86	95	89	86	94	90	85	81
1.25	101	95	91	100	94	91	98	93	90	85
1.50	104	99	95	103	98	94	100	96	93	89
2.00	107	103	99	106	102	98	103	100	97	91
2.50	109	105	102	107	104	101	104	101	99	93
3.00	111	107	104	109	106	103	106	103	101	94
4.00	113	110	107	111	108	106	107	105	103	96
5.00	114	112	110	112	110	108	108	106	105	97
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:0.0450A P:9.6100W PF:0.8870 Freq:49.99Hz Lamp Flux:926.082x1 lm		
NAME: CD10W-CC-W-IP65 5000K	TYPE: 10W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.00636	Shielding Angle:



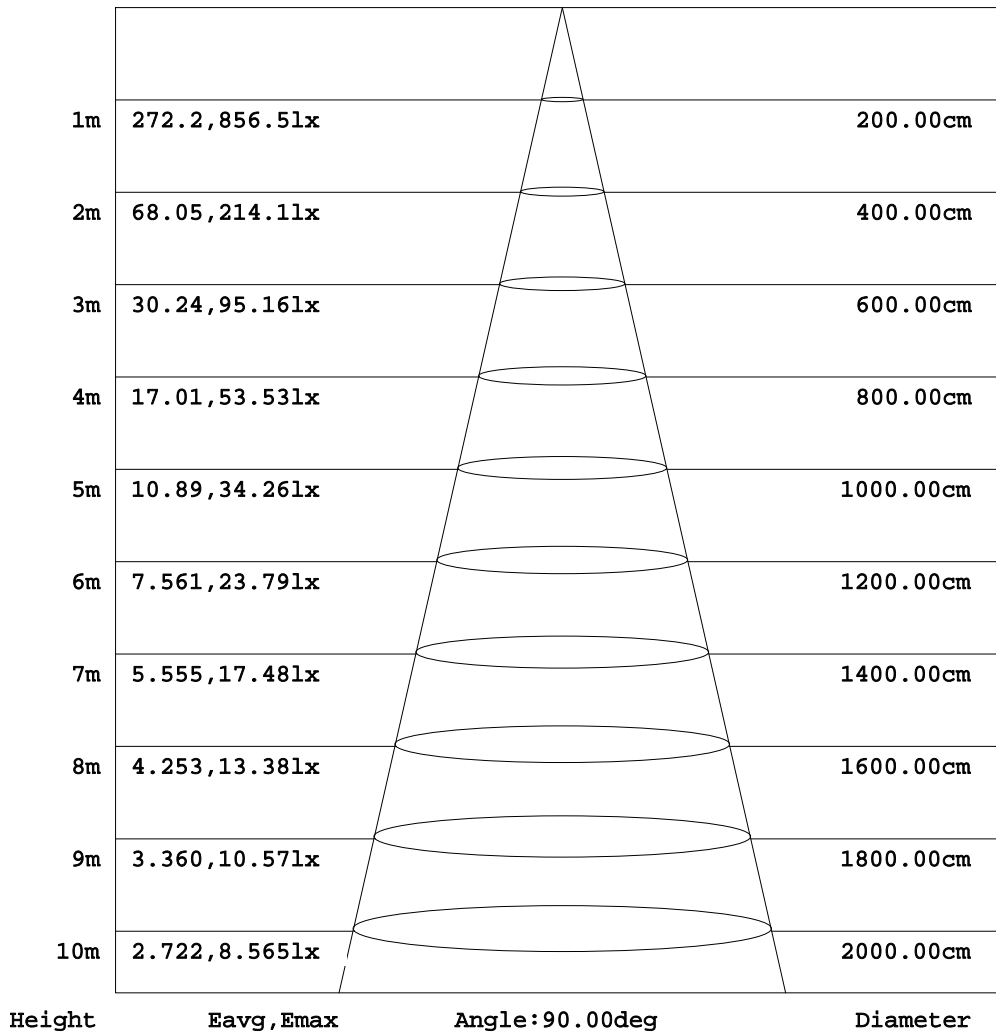
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-02-15

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:0.0450A P:9.6100W PF:0.8870 Freq:49.99Hz Lamp Flux:926.082x1 lm		
NAME: CD10W-CC-W-IP65 5000K	TYPE: 10W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.00636	Shielding Angle:

Flux out:855.1 lm



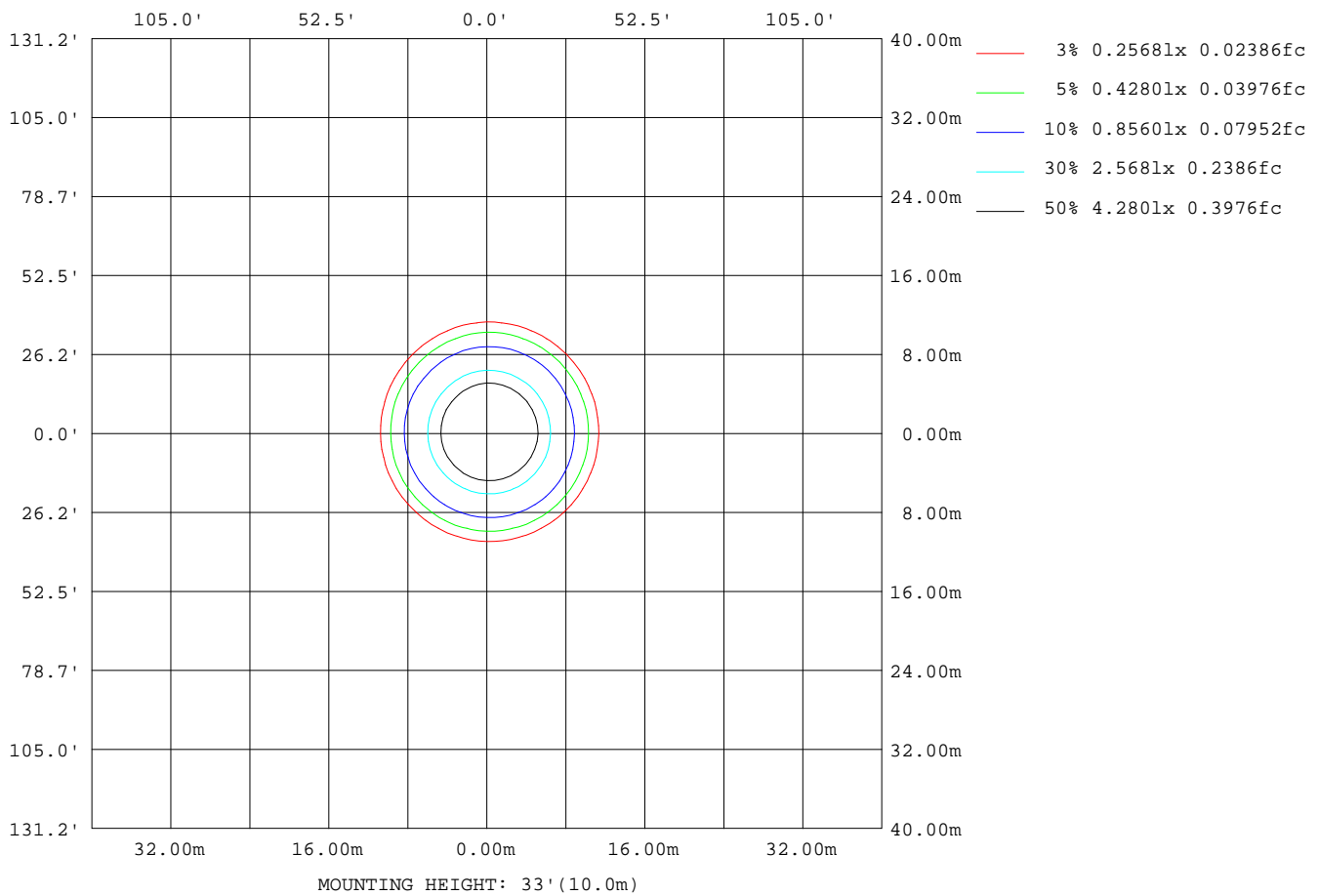
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 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:0.0450A P:9.6100W PF:0.8870 Freq:49.99Hz Lamp Flux:926.082x1 lm		
NAME: CD10W-CC-W-IP65 5000K	TYPE: 10W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.00636	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:0.0450A P:9.6100W PF:0.8870 Freq:49.99Hz Lamp Flux:926.082x1 lm		
NAME: CD10W-CC-W-IP65 5000K	TYPE: 10W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.00636	Shielding Angle:

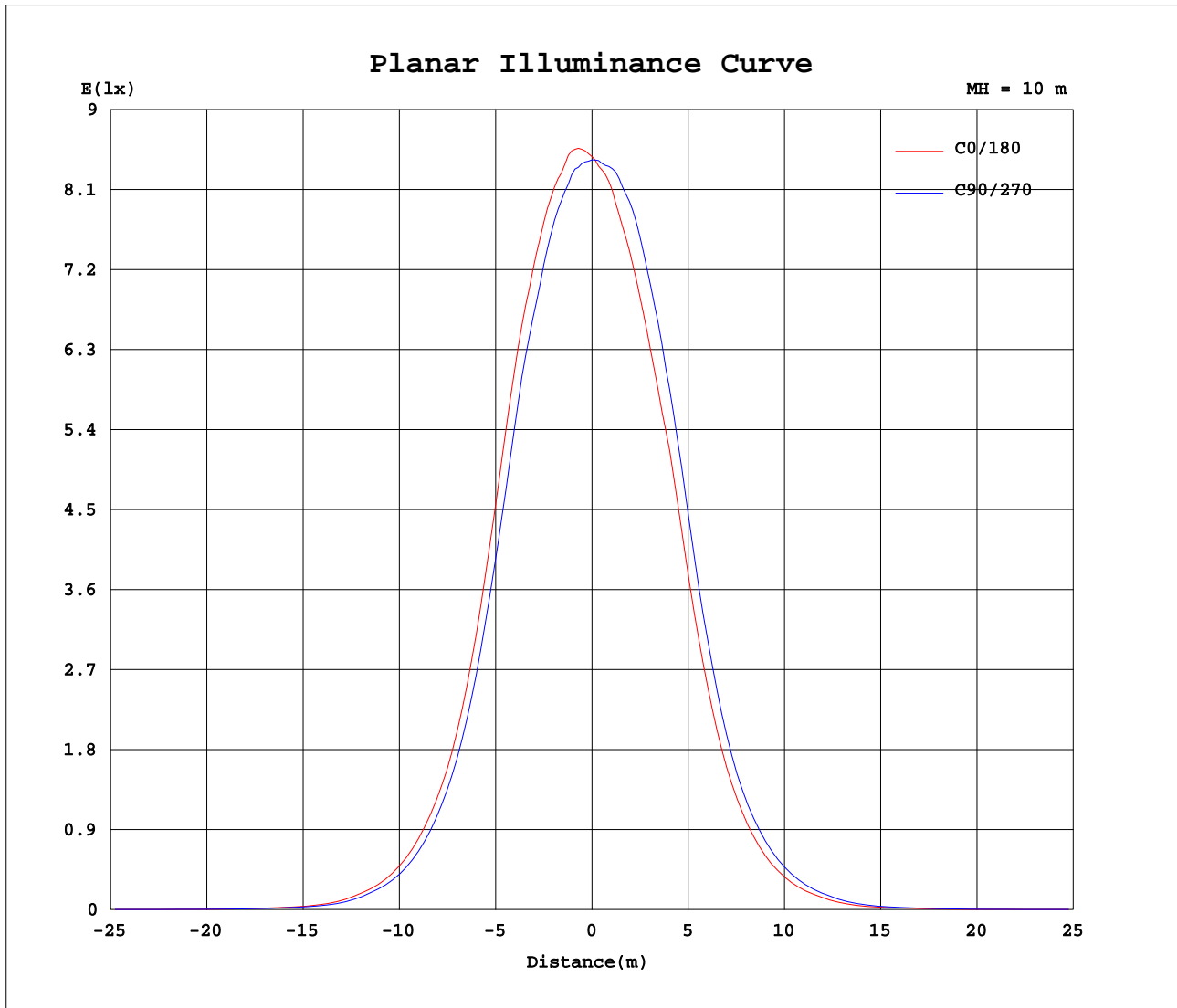
AvgL	cd/m2
L_0~180(65)av	1737
L_0~180(75)av	1327
L_0~180(85)av	1146
L_90~270(65)av	1875
L_90~270(75)av	1437
L_90~270(85)av	1178
L_45(65)av	1833
L_45(75)av	1361
L_45(85)av	1174

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:0.0450A P:9.6100W PF:0.8870 Freq:49.99Hz Lamp Flux:926.082x1 lm		
NAME: CD10W-CC-W-IP65 5000K	TYPE: 10W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.00636	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	45	90	135	180	225	270	315											
0	844	844	844	844	844	844	844	844											
5	862	857	843	830	826	834	846	862											
10	858	845	825	796	789	806	843	869											
15	837	811	783	748	742	768	822	851											
20	789	756	722	685	673	700	767	801											
25	681	638	596	569	571	604	669	691											
30	524	495	451	428	426	455	513	534											
35	364	347	310	292	290	315	357	373											
40	237	226	198	185	184	201	230	242											
45	139	128	113	104	104	116	136	142											
50	72.6	66.7	56.9	51.6	53.6	60.4	71.8	75.3											
55	27.9	25.8	22.1	20.3	19.9	22.8	28.0	29.7											
60	12.2	10.9	9.58	8.89	8.65	10.1	12.5	13.3											
65	4.98	4.82	4.96	4.83	4.35	4.68	5.12	5.39											
70	3.46	3.85	3.88	3.96	3.42	3.66	3.96	3.77											
75	2.16	1.95	1.98	2.00	2.21	2.46	2.76	2.55											
80	1.11	1.02	1.06	1.01	1.06	1.19	1.35	1.31											
85	0.65	0.59	0.60	0.58	0.62	0.72	0.70	0.72											
90	0.02	0.00	0.01	0.00	0.01	0.01	0.00	0.01											

C Range: 0 - 360DEG
 C Interval: 45.0DEG
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γ Range: 0 - 90DEG
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