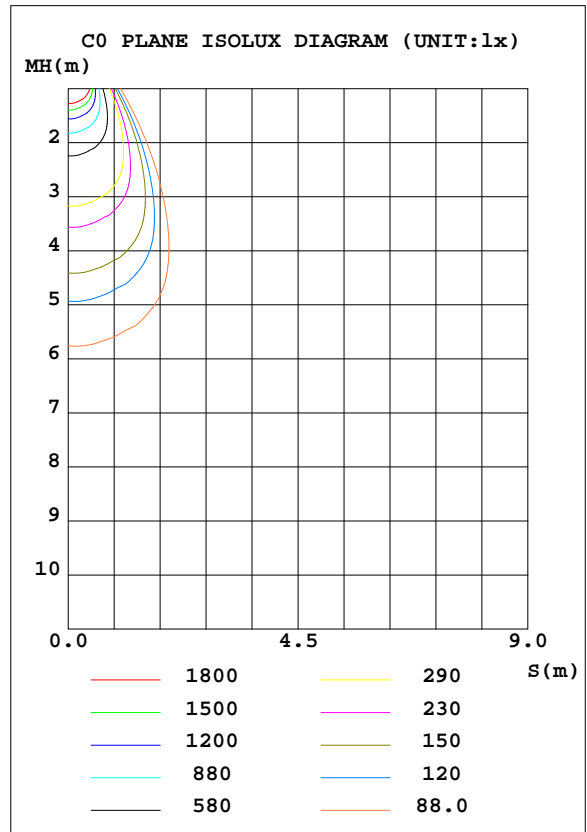
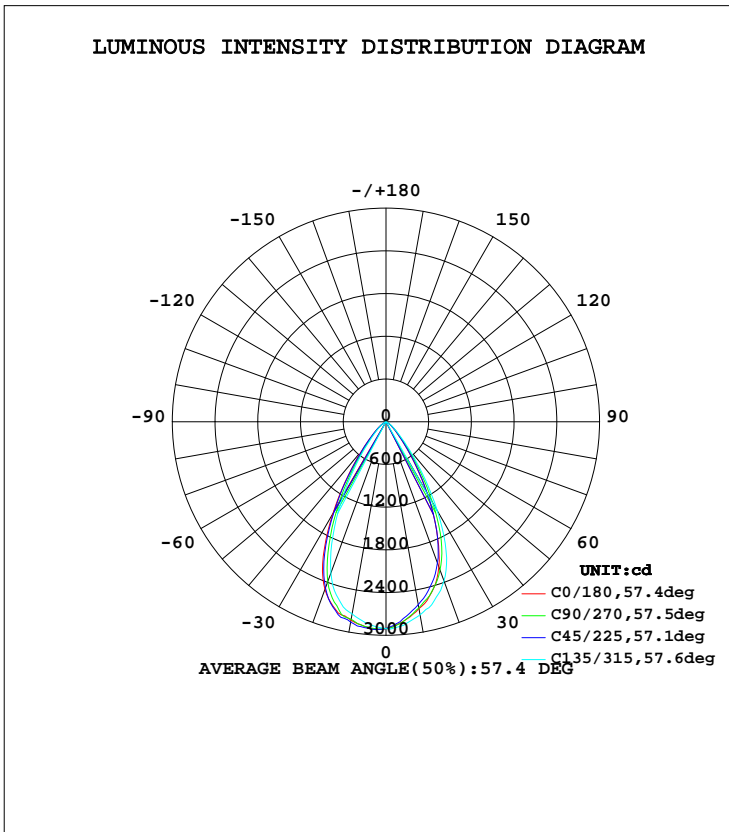


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.0V I:0.1040A P:24.20W PF:0.9660 Lamp Flux:2636.06x1 lm		
NAME: CD25W-NW-W-IP65	TYPE:25W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:
MFR.:	SUR.:0.00898	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 108.93 lm/W			
MODEL	CD25W-NW-W-IP65	I _{max} (cd)	2922	S/MH(C0/180)	0.90
NOMINAL POWER(W)	25	LOR(%)	100.0	S/MH(C90/270)	0.87
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	2636.1	η UP, DN(C0-180)	0.0, 51.9
NOMINAL FLUX(lm)	2636.06	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 48.1
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	240.1	η down(%)	100.0	CIBSE SHR MAX	0.90



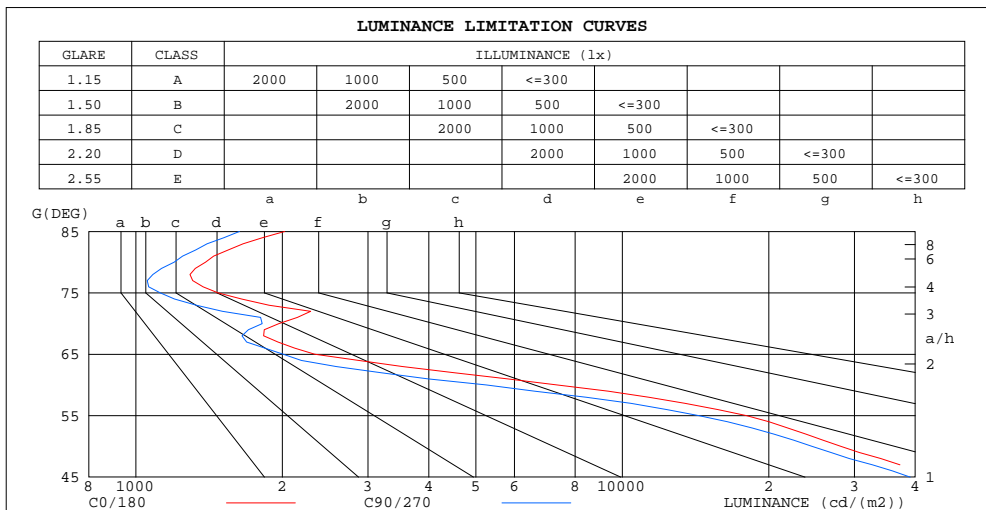
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-09-05

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:10.450m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	2831	2858	2817	2743	2666	2609	2656	2755	0- 10	268.8	268.8	10.2,10.2
20	2507	2484	2392	2264	2173	2111	2218	2380	10- 20	722.0	990.8	37.6,37.6
30	1496	1460	1328	1216	1149	1159	1307	1441	20- 30	843.7	1835	69.6,69.6
40	525.6	512.7	446.1	394.0	372.2	379.0	444.0	500.4	30- 40	513.6	2348	89.1,89.1
50	162.0	160.3	142.2	130.7	125.5	128.3	142.3	157.7	40- 50	199.9	2548	96.7,96.7
60	32.85	29.30	23.63	22.08	23.20	25.85	32.93	35.98	50- 60	71.71	2620	99.4,99.4
70	6.018	5.529	5.596	6.398	6.308	6.124	5.934	6.734	60- 70	10.96	2631	99.8,99.8
80	2.160	1.922	1.873	1.851	1.948	2.048	2.062	2.241	70- 80	3.961	2635	99.9,99.9
90	0.1309	0.1093	0.1317	0.1171	0.1163	0.1384	0.2195	0.2928	80- 90	1.400	2636	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		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	2024	1633
80	1390	1198
75	1477	1123
70	1967	1818
65	2332	2008
60	7344	5251
55	18019	14372
50	28164	24573
45	44536	39069

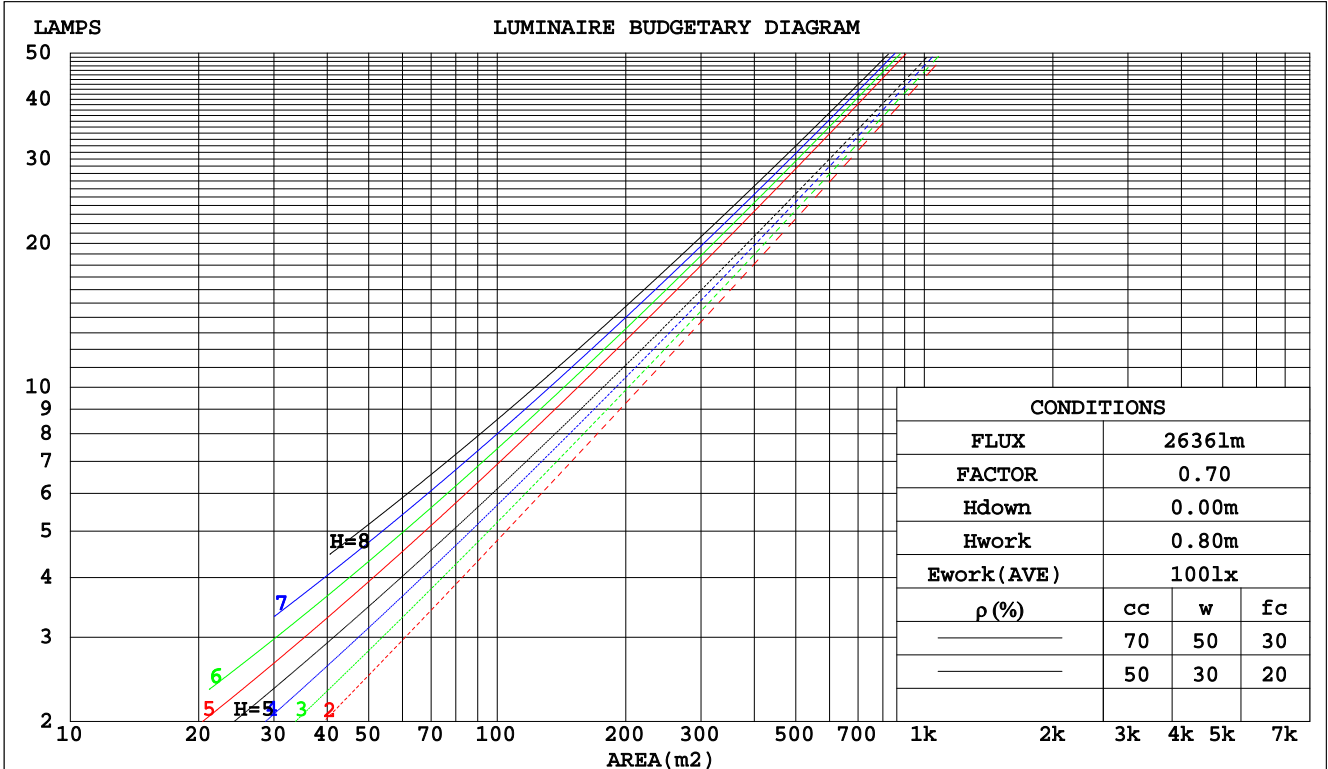
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-09-05

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:10.450m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:240.0V I:0.1040A P:24.20W PF:0.9660 Lamp Flux:2636.06x1 lm		
NAME: CD25W-NW-W-IP65	TYPE:25W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:
MFR.:	SUR.:0.00898	PROTECTION 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	.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	.98	.95	1.01	.97	.94	.98	.95	.92	.95	.92	.90	.92	.90	.88	.86
3.0	.95	.90	.86	.94	.89	.86	.91	.87	.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	.72	.80	.76	.72	.79	.74	.71	.77	.73	.71	.69
6.0	.78	.72	.67	.77	.71	.67	.76	.70	.67	.74	.70	.66	.73	.69	.66	.64
7.0	.73	.67	.63	.72	.67	.63	.71	.66	.62	.70	.65	.62	.69	.65	.61	.60
8.0	.69	.63	.59	.68	.62	.58	.67	.62	.58	.66	.61	.58	.65	.61	.58	.56
9.0	.65	.59	.55	.64	.59	.55	.63	.58	.55	.63	.58	.54	.62	.57	.54	.53
10.0	.61	.55	.52	.61	.55	.51	.60	.55	.51	.59	.55	.51	.59	.54	.51	.50



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-09-05

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:10.450m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:240.0V I:0.1040A P:24.20W PF:0.9660 Lamp Flux:2636.06x1 lm		
NAME: CD25W-NW-W-IP65	TYPE:25W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:
MFR.:	SUR.:0.00898	PROTECTION 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	.163	.093	.030	.151	.087	.028	.140	.081	.026	
2.0	.175	.096	.029	.169	.093	.029	.159	.088	.027	.149	.083	.026	.140	.079	.025	
3.0	.167	.089	.027	.162	.087	.026	.153	.083	.025	.145	.079	.024	.137	.076	.023	
4.0	.159	.083	.024	.155	.081	.024	.147	.078	.023	.140	.075	.023	.133	.072	.022	
5.0	.152	.077	.022	.148	.076	.022	.141	.073	.022	.135	.071	.021	.129	.069	.021	
6.0	.145	.073	.021	.142	.071	.021	.135	.069	.020	.130	.067	.020	.124	.066	.019	
7.0	.138	.068	.019	.135	.067	.019	.130	.066	.019	.125	.064	.019	.120	.062	.018	
8.0	.132	.065	.018	.130	.064	.018	.125	.062	.018	.120	.061	.018	.116	.060	.017	
9.0	.127	.061	.017	.124	.061	.017	.120	.059	.017	.116	.058	.017	.112	.057	.016	
10.0	.121	.058	.016	.119	.058	.016	.115	.057	.016	.112	.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	.019	.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	.116	.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	.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	.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:2022-09-05

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:10.450m [K=1.0000]
 Remarks:

Uncorrected UGR Table

Test:U:240.0V I:0.1040A P:24.20W PF:0.9660 Lamp Flux:2636.06x1 lm										
NAME: CD25W-NW-W-IP65					TYPE:25W			WEIGHT:		
DIM.:					SPEC.:4000K			SERIAL No.:		
MFR.:					SUR.:0.00898			PROTECTION 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	21.7	22.7	21.9	22.9	23.0	21.1	22.1	21.4	22.3	22.5
3H	21.5	22.4	21.8	22.6	22.8	21.0	21.9	21.2	22.1	22.3
4H	21.5	22.3	21.7	22.5	22.8	20.9	21.7	21.2	22.0	22.2
6H	21.4	22.2	21.7	22.4	22.7	20.8	21.6	21.1	21.8	22.1
8H	21.3	22.1	21.6	22.3	22.6	20.7	21.5	21.1	21.8	22.0
12H	21.3	22.0	21.6	22.3	22.6	20.7	21.4	21.0	21.7	22.0
4H 2H	21.5	22.3	21.8	22.6	22.8	20.9	21.8	21.2	22.0	22.2
3H	21.3	22.0	21.6	22.3	22.6	20.8	21.5	21.1	21.8	22.0
4H	21.2	21.9	21.6	22.2	22.5	20.7	21.3	21.0	21.6	21.9
6H	21.1	21.7	21.5	22.1	22.4	20.6	21.2	20.9	21.5	21.8
8H	21.1	21.6	21.5	22.0	22.3	20.5	21.1	20.9	21.4	21.8
12H	21.0	21.5	21.5	21.9	22.3	20.5	21.0	20.9	21.3	21.7
8H 4H	21.1	21.6	21.5	22.0	22.3	20.5	21.1	20.9	21.4	21.8
6H	21.0	21.4	21.4	21.8	22.2	20.4	20.9	20.9	21.3	21.7
8H	20.9	21.3	21.4	21.8	22.2	20.4	20.8	20.8	21.2	21.6
12H	20.9	21.2	21.4	21.7	22.1	20.3	20.7	20.8	21.1	21.6
12H 4H	21.0	21.5	21.4	21.9	22.3	20.5	21.0	20.9	21.3	21.7
6H	20.9	21.3	21.4	21.7	22.2	20.4	20.8	20.8	21.2	21.6
8H	20.9	21.2	21.4	21.7	22.1	20.3	20.7	20.8	21.1	21.6
Variations with the observer position at spacings:										
S = 1.0H	+ 2.8 / - 7.1					+ 2.5 / - 7.8				
1.5H	+ 4.2 / - 4.5					+ 3.7 / - 4.3				
2.0H	+ 4.8 / -10.5					+ 4.7 / -10.6				

CIE Pub.117 Corrected 2636 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.4)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-09-05

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:10.450m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:240.0V I:0.1040A P:24.20W PF:0.9660 Lamp Flux:2636.06x1 lm		
NAME: CD25W-NW-W-IP65	TYPE:25W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:
MFR.:	SUR.:0.00898	PROTECTION ANGLE:

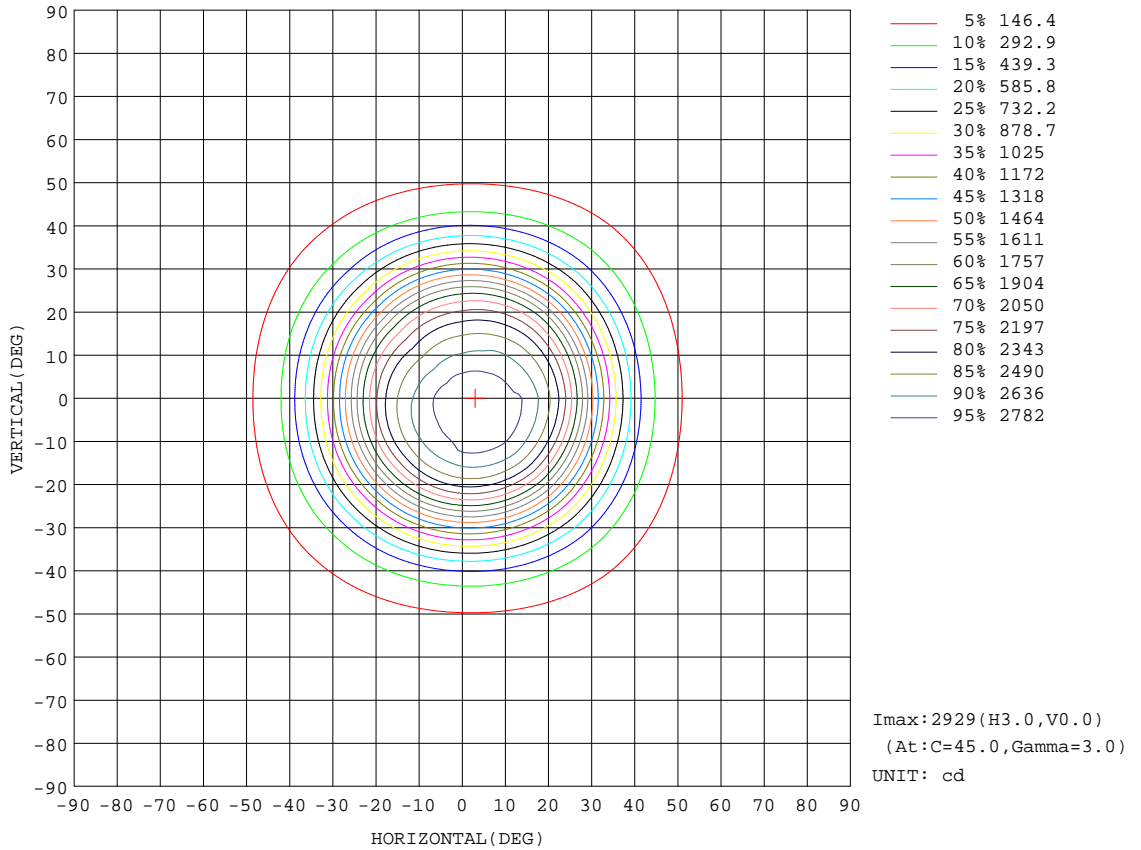
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	85	78	74	84	77	73	83	77	73	70
0.80	92	86	82	92	86	82	91	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:2022-09-05

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:10.450m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:240.0V I:0.1040A P:24.20W PF:0.9660 Lamp Flux:2636.06x1 lm		
NAME: CD25W-NW-W-IP65	TYPE:25W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:
MFR.:	SUR.:0.00898	PROTECTION ANGLE:

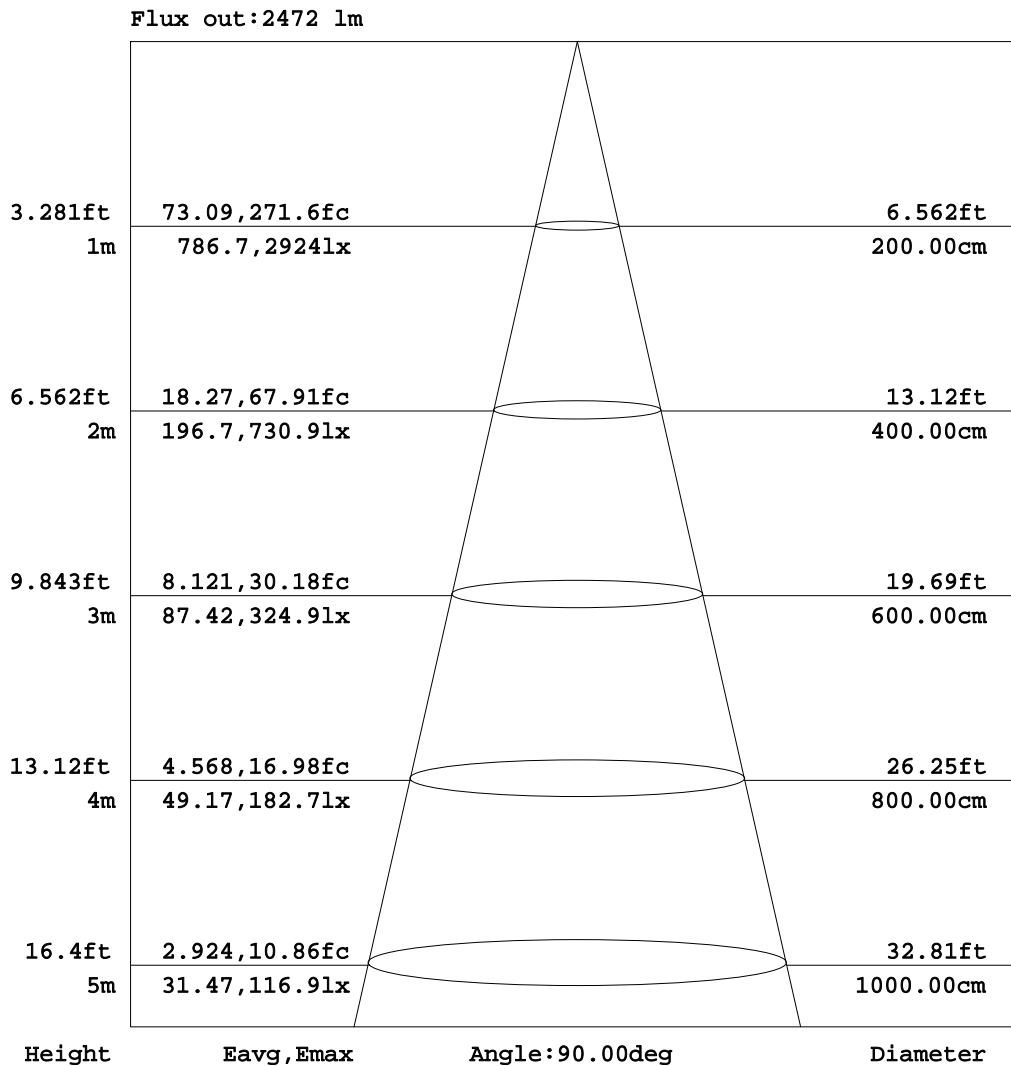


C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-09-05

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity: 65.0%
 Test Distance: 10.450m [K=1.0000]
 Remarks:

AAI Figure

Test:U:240.0V I:0.1040A P:24.20W PF:0.9660 Lamp Flux:2636.06x1 lm		
NAME: CD25W-NW-W-IP65	TYPE:25W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:
MFR.:	SUR.:0.00898	PROTECTION ANGLE:



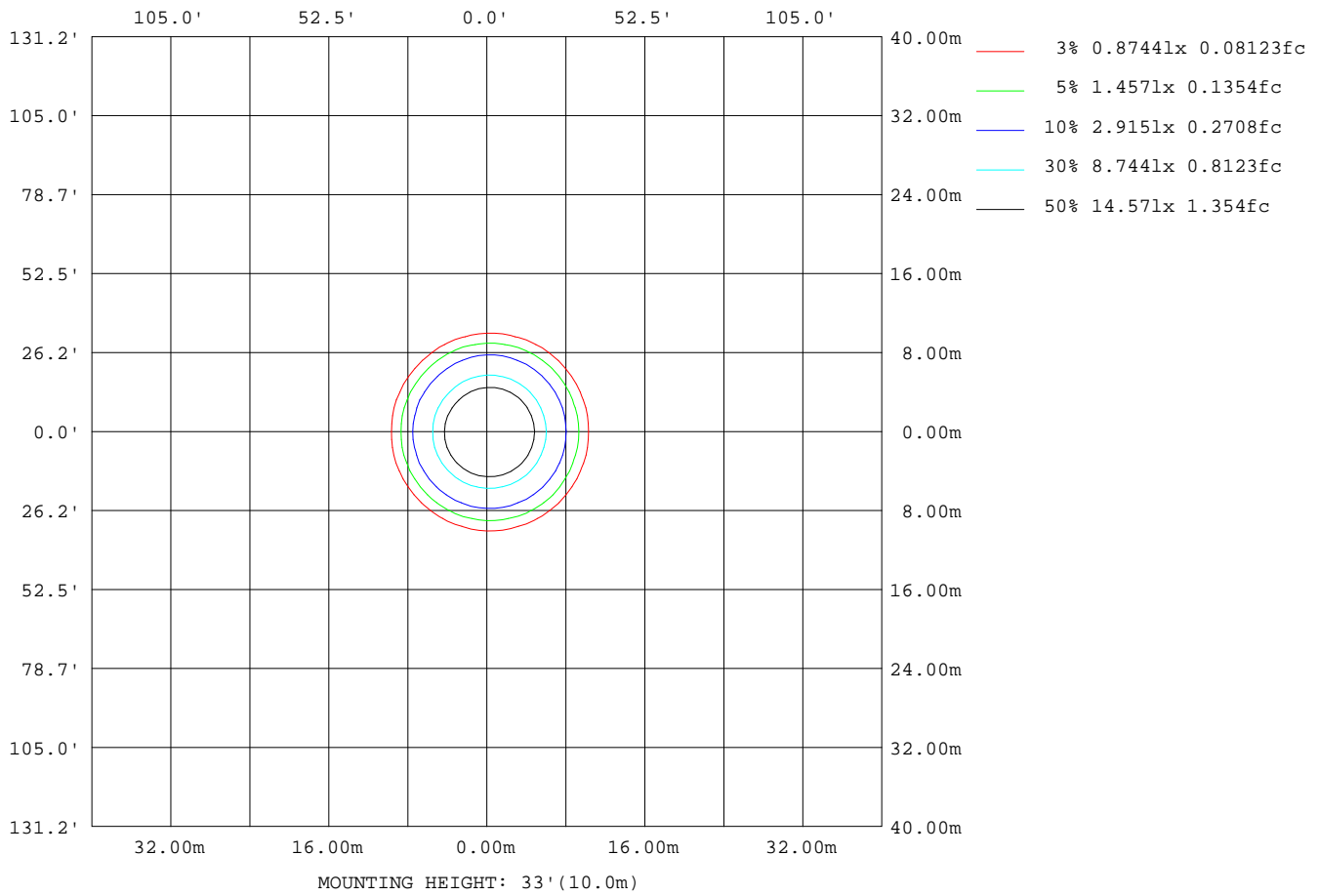
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-09-05

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:10.450m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

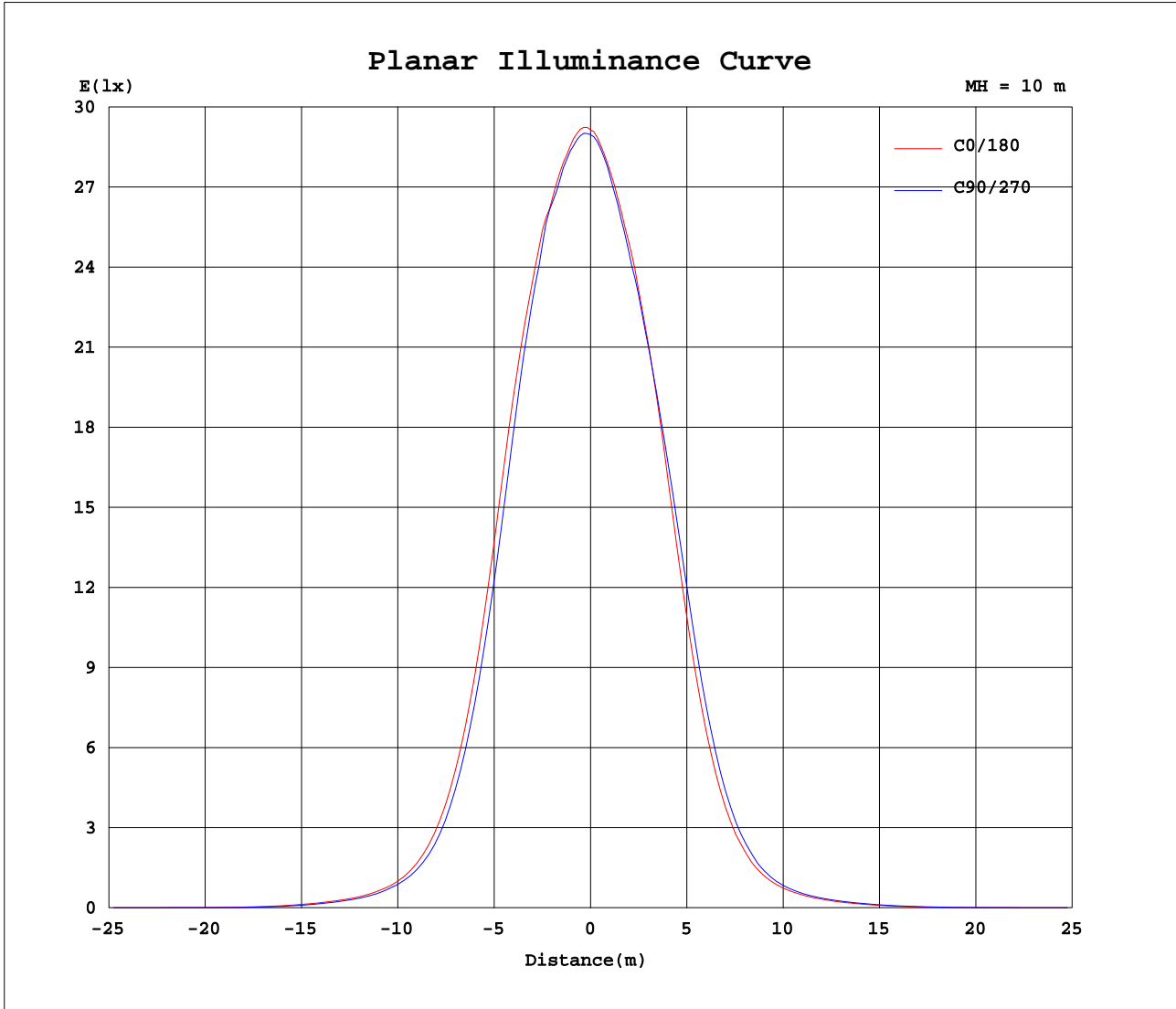
Test:U:240.0V I:0.1040A P:24.20W PF:0.9660 Lamp Flux:2636.06x1 lm		
NAME: CD25W-NW-W-IP65	TYPE:25W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:
MFR.:	SUR.:0.00898	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-09-05

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 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: 2022-09-05

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity: 65.0%
 Test Distance: 10.450m [K=1.0000]
 Remarks:

