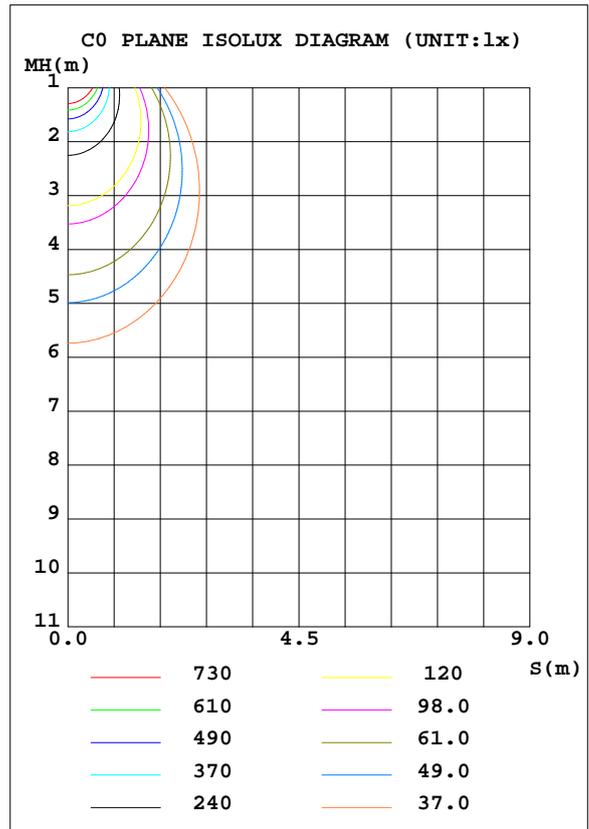
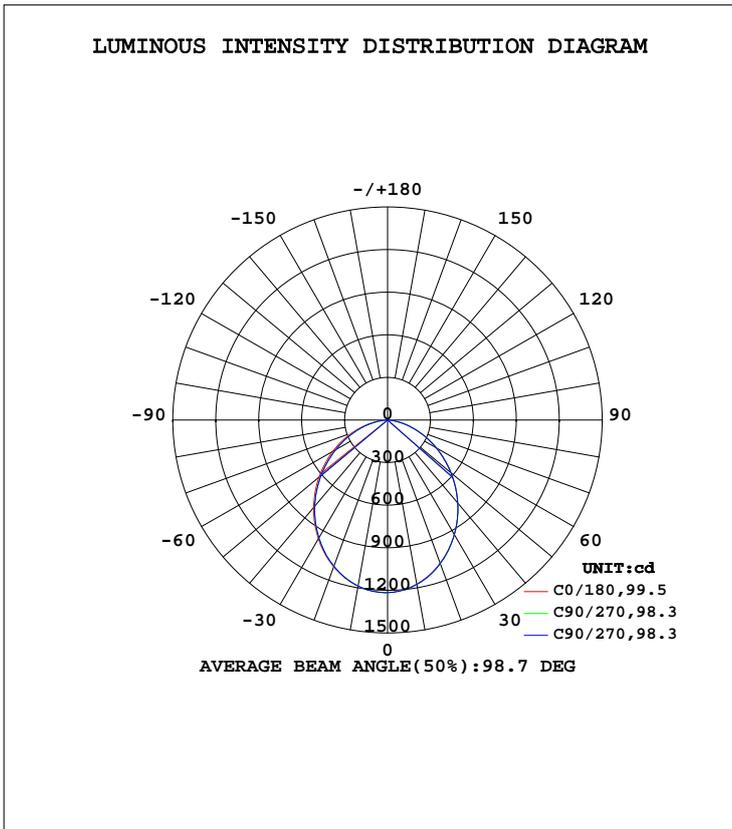


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.52V I:0.1364A P:30.796W PF:0.9797 Freq:49.99Hz UTHDi:0.20% ITHDi:19.91% KDisp:0.9997 Lamp Flux:2987.42x1 lm		
NAME: DFL30W-B-CC 30W 3000K	TYPE: 30W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: UP-IES4-R&D
MFR.:	SUR.: 0.020532	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 97.01 lm/W			
MODEL	DFL30W-B-CC 30W	I _{max} (cd)	1216	S/MH(C0/180)	1.19
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	1.18
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	2987.4	η UP, DN(C0-180)	0.6, 47.9
NOMINAL FLUX(lm)	2987.42	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.5, 51.0
LAMPS INSIDE	1	η up(%)	1.1	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230	η down(%)	98.9	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-01-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.570m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270				γ	Φ zone	Φ total	%lum, lamp
10	1175	1176	1187	1186				0- 10	114.3	114.3	3.83,3.83
20	1074	1076	1100	1096				10- 20	321.2	435.6	14.6,14.6
30	931.8	932.0	967.5	959.7				20- 30	470.1	905.7	30.3,30.3
40	763.6	761.9	803.8	791.5				30- 40	541.8	1448	48.5,48.5
50	580.0	578.2	624.7	605.8				40- 50	532.0	1980	66.3,66.3
60	394.9	393.1	441.6	418.9				50- 60	450.6	2430	81.3,81.3
70	221.6	220.8	263.8	243.9				60- 70	320.0	2750	92.1,92.1
80	71.75	74.06	104.1	92.65				70- 80	167.6	2918	97.7,97.7
90	1.415	1.357	2.779	1.738				80- 90	36.44	2954	98.9,98.9
100	2.425	2.345	2.138	2.099				90-100	1.933	2956	99,99
110	3.714	3.636	3.376	3.297				100-110	3.020	2959	99.1,99.1
120	5.163	5.073	4.771	4.678				110-120	4.168	2963	99.2,99.2
130	6.607	6.551	6.205	6.114				120-130	5.047	2968	99.4,99.4
140	7.946	7.945	7.578	7.511				130-140	5.461	2974	99.5,99.5
150	9.090	9.222	8.782	8.786				140-150	5.247	2979	99.7,99.7
160	10.08	10.22	9.844	9.851				150-160	4.387	2983	99.9,99.9
170	10.83	10.90	10.67	10.65				160-170	2.939	2986	100,100
180	11.11	11.15	11.15	11.09				170-180	1.043	2987	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm		

Conical surface Flux(90deg): 1719.6 lm

%lum = 57.6%
%lamp = 57.6%

Conical surface Flux(120deg): 2430.1 lm

%lum = 81.3%
%lamp = 81.3%

0 - 45 DEG Zonal Flux:1719.6 %lum: 57.6%
0 - 60 DEG Zonal Flux:2430.1 %lum: 81.3%

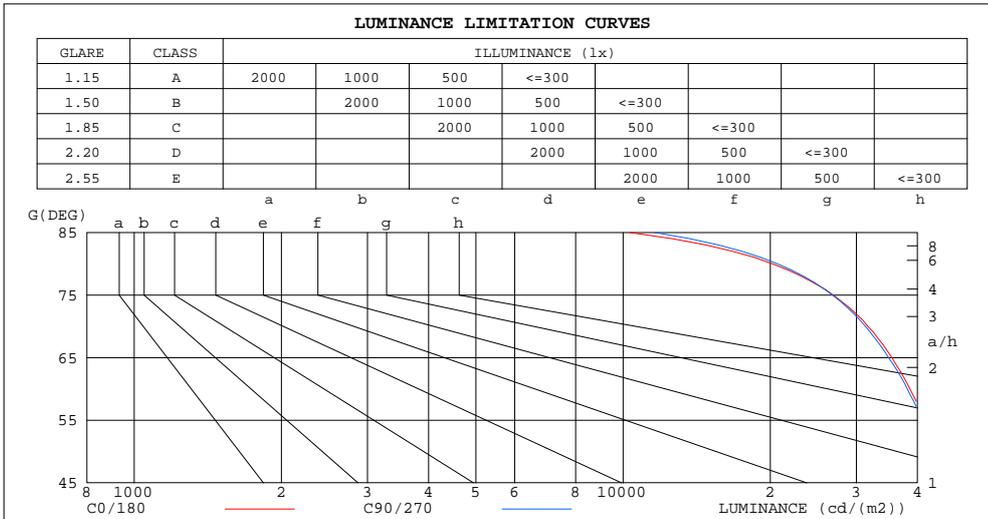
All measured values may vary less than 35 %
from the average measured value in the 0 to 130 deg. zone: 13.4%
All measured values in the 0 to 130 deg. zone
may vary less than 50% from the average value of itself: 19.5%

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-01-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:8.570m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.52V I:0.1364A P:30.796W PF:0.9797 Freq:49.99Hz UTHDi:0.20% ITHDi:19.91% KDisp:0.9997 Lamp Flux:2987.42x1 lm		
NAME: DFL30W-B-CC 30W 3000K	TYPE: 30W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: UP-IES4-R&D
MFR.:	SUR.: 0.020532	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	10340	11625
80	20200	20693
75	26931	26825
70	31678	31327
65	35486	34903
60	38608	38146
55	41437	40956
50	44114	43643
45	46502	46028

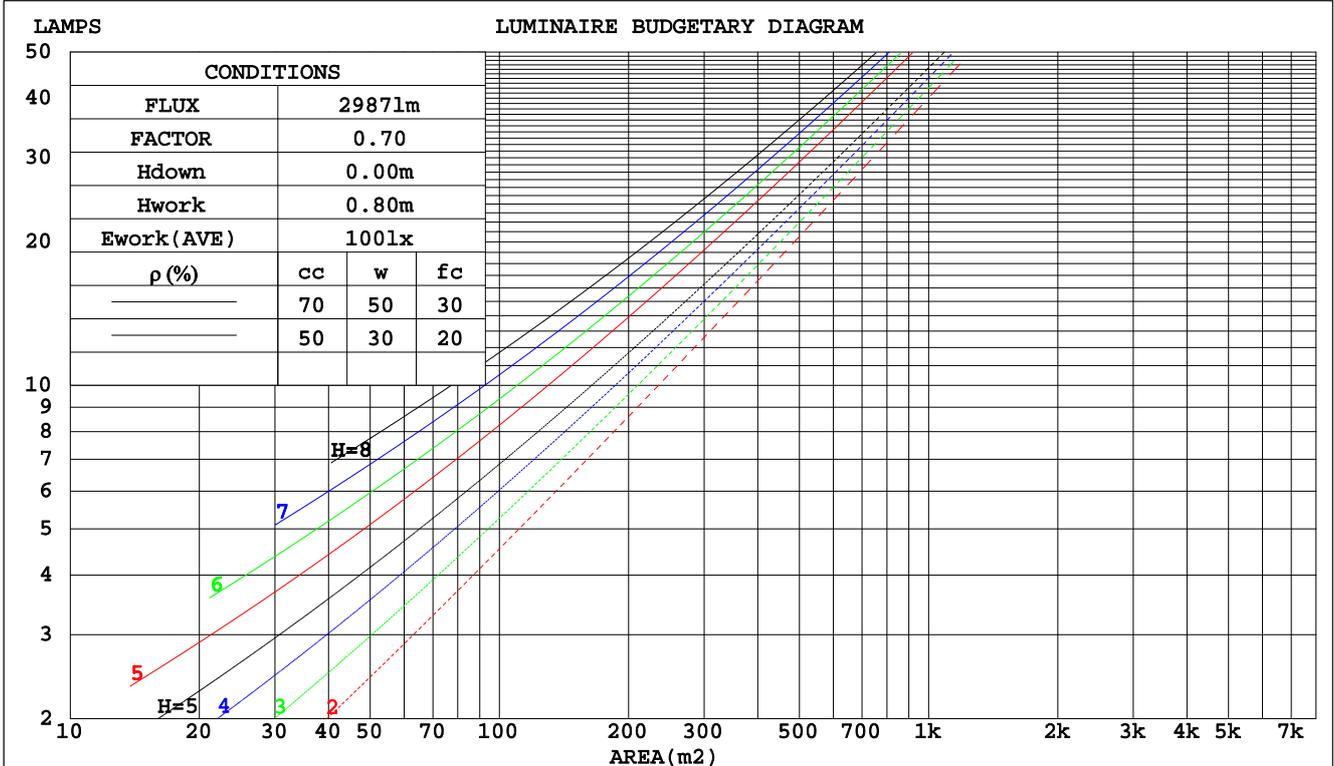
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-01-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.570m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.52V I:0.1364A P:30.796W PF:0.9797 Freq:49.99Hz UTHDi:0.20% ITHDi:19.91% KDisp:0.9997 Lamp Flux:2987.42x1 lm		
NAME: DFL30W-B-CC 30W 3000K	TYPE: 30W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: UP-IES4-R&D
MFR.:	SUR.: 0.020532	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																0
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	1.10	1.10	1.10	1.06	1.06	1.06	1.01	1.01	1.01	.99
1.0	1.05	1.01	.97	1.02	.99	.95	.98	.95	.92	.94	.91	.89	.90	.88	.86	.84
2.0	.92	.85	.80	.90	.84	.79	.86	.81	.77	.83	.79	.75	.80	.76	.73	.71
3.0	.81	.73	.67	.80	.72	.66	.76	.70	.65	.74	.68	.64	.71	.66	.63	.60
4.0	.72	.64	.57	.71	.63	.57	.68	.61	.56	.66	.60	.55	.64	.58	.54	.52
5.0	.65	.56	.50	.64	.55	.49	.61	.54	.49	.59	.53	.48	.57	.52	.47	.45
6.0	.59	.50	.44	.58	.49	.43	.56	.48	.43	.54	.47	.42	.52	.46	.42	.40
7.0	.53	.45	.39	.52	.44	.39	.51	.43	.38	.49	.43	.38	.48	.42	.37	.36
8.0	.49	.40	.35	.48	.40	.35	.47	.39	.34	.45	.39	.34	.44	.38	.34	.32
9.0	.45	.37	.31	.44	.36	.31	.43	.36	.31	.42	.35	.31	.41	.35	.31	.29
10.0	.41	.34	.29	.41	.33	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-01-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.570m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:230.52V I:0.1364A P:30.796W PF:0.9797 Freq:49.99Hz UTHDi:0.20% ITHDi:19.91% KDisp:0.9997 Lamp Flux:2987.42x1 lm		
NAME: DFL30W-B-CC 30W 3000K	TYPE: 30W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: UP-IES4-R&D
MFR.:	SUR.: 0.020532	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	.289	.165	.052	.282	.161	.051	.268	.154	.049	.255	.147	.047	.244	.141	.046	
2.0	.275	.151	.046	.269	.148	.046	.257	.143	.044	.246	.138	.043	.235	.133	.042	
3.0	.257	.137	.041	.251	.134	.040	.240	.130	.040	.230	.126	.039	.221	.122	.038	
4.0	.238	.124	.036	.233	.122	.036	.224	.119	.035	.215	.115	.035	.207	.112	.034	
5.0	.221	.113	.033	.217	.111	.032	.208	.109	.032	.201	.106	.031	.193	.103	.031	
6.0	.206	.103	.030	.202	.102	.029	.195	.100	.029	.187	.097	.029	.181	.095	.028	
7.0	.192	.095	.027	.189	.094	.027	.182	.092	.027	.176	.090	.026	.170	.088	.026	
8.0	.180	.088	.025	.177	.087	.025	.171	.085	.024	.165	.084	.024	.160	.082	.024	
9.0	.169	.082	.023	.166	.081	.023	.161	.080	.023	.156	.078	.022	.151	.077	.022	
10.0	.159	.076	.021	.157	.076	.021	.152	.074	.021	.147	.073	.021	.143	.072	.021	

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	.199	.199	.199	.170	.170	.170	.116	.116	.116	.067	.067	.067	.021	.021	.021	
1.0	.187	.165	.145	.160	.141	.124	.110	.097	.086	.063	.056	.050	.020	.018	.016	
2.0	.179	.141	.109	.153	.121	.094	.105	.084	.065	.060	.049	.038	.019	.016	.013	
3.0	.171	.123	.085	.146	.106	.074	.100	.074	.052	.058	.043	.030	.019	.014	.010	
4.0	.163	.109	.069	.140	.095	.060	.096	.066	.042	.056	.039	.025	.018	.013	.008	
5.0	.155	.099	.057	.134	.086	.050	.092	.060	.035	.053	.035	.021	.017	.011	.007	
6.0	.148	.091	.049	.128	.078	.043	.088	.055	.030	.051	.032	.018	.016	.011	.006	
7.0	.142	.084	.043	.122	.072	.037	.084	.051	.026	.049	.030	.016	.016	.010	.005	
8.0	.135	.078	.038	.117	.067	.033	.081	.047	.024	.047	.028	.014	.015	.009	.005	
9.0	.130	.073	.035	.112	.063	.030	.077	.044	.021	.045	.026	.013	.015	.009	.004	
10.0	.124	.069	.032	.107	.060	.028	.074	.042	.020	.043	.025	.012	.014	.008	.004	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-01-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.570m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.52V I:0.1364A P:30.796W PF:0.9797 Freq:49.99Hz UTHDi:0.20% ITHDi:19.91% KDisp:0.9997 Lamp Flux:2987.42x1 lm										
NAME: DFL30W-B-CC 30W 3000K					TYPE: 30W			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: UP-IES4-R&D		
MFR.:					SUR.: 0.020532			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	25.4	26.9	25.7	27.1	27.3	25.4	26.8	25.7	27.1	27.3
3H	26.6	28.0	26.9	28.2	28.5	26.6	27.9	26.9	28.2	28.4
4H	27.1	28.3	27.4	28.6	28.9	27.0	28.3	27.3	28.5	28.8
6H	27.3	28.5	27.6	28.8	29.1	27.2	28.4	27.6	28.7	29.0
8H	27.3	28.5	27.7	28.8	29.1	27.3	28.4	27.6	28.7	29.0
12H	27.3	28.4	27.7	28.7	29.0	27.3	28.4	27.6	28.7	29.0
4H 2H	25.9	27.2	26.3	27.5	27.7	25.9	27.2	26.2	27.4	27.7
3H	27.3	28.4	27.7	28.7	29.0	27.3	28.4	27.6	28.7	29.0
4H	27.8	28.8	28.2	29.2	29.5	27.8	28.8	28.2	29.1	29.5
6H	28.1	29.0	28.6	29.4	29.8	28.1	29.0	28.5	29.4	29.8
8H	28.2	29.0	28.6	29.4	29.8	28.2	29.0	28.6	29.4	29.8
12H	28.2	29.0	28.6	29.4	29.8	28.2	29.0	28.6	29.4	29.8
8H 4H	28.0	28.8	28.4	29.2	29.6	28.0	28.8	28.4	29.2	29.6
6H	28.4	29.1	28.9	29.5	30.0	28.4	29.1	28.8	29.5	29.9
8H	28.5	29.1	29.0	29.6	30.0	28.5	29.1	29.0	29.5	30.0
12H	28.5	29.1	29.0	29.5	30.0	28.5	29.1	29.0	29.5	30.0
12H 4H	28.0	28.7	28.4	29.1	29.6	27.9	28.7	28.4	29.1	29.5
6H	28.4	29.0	28.9	29.5	29.9	28.4	29.0	28.9	29.4	29.9
8H	28.5	29.1	29.0	29.5	30.0	28.5	29.0	29.0	29.5	30.0
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.4 / - 0.3					+ 0.3 / - 0.4				

CIE Pub.117, 2987 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 3.8)
Area: 0.020532 m2

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-01-21

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:8.570m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.52V I:0.1364A P:30.796W PF:0.9797 Freq:49.99Hz UTHDi:0.20% ITHDi:19.91% KDisp:0.9997 Lamp Flux:2987.42x1 lm		
NAME: DFL30W-B-CC 30W 3000K	TYPE: 30W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: UP-IES4-R&D
MFR.:	SUR.: 0.020532	Shielding Angle:

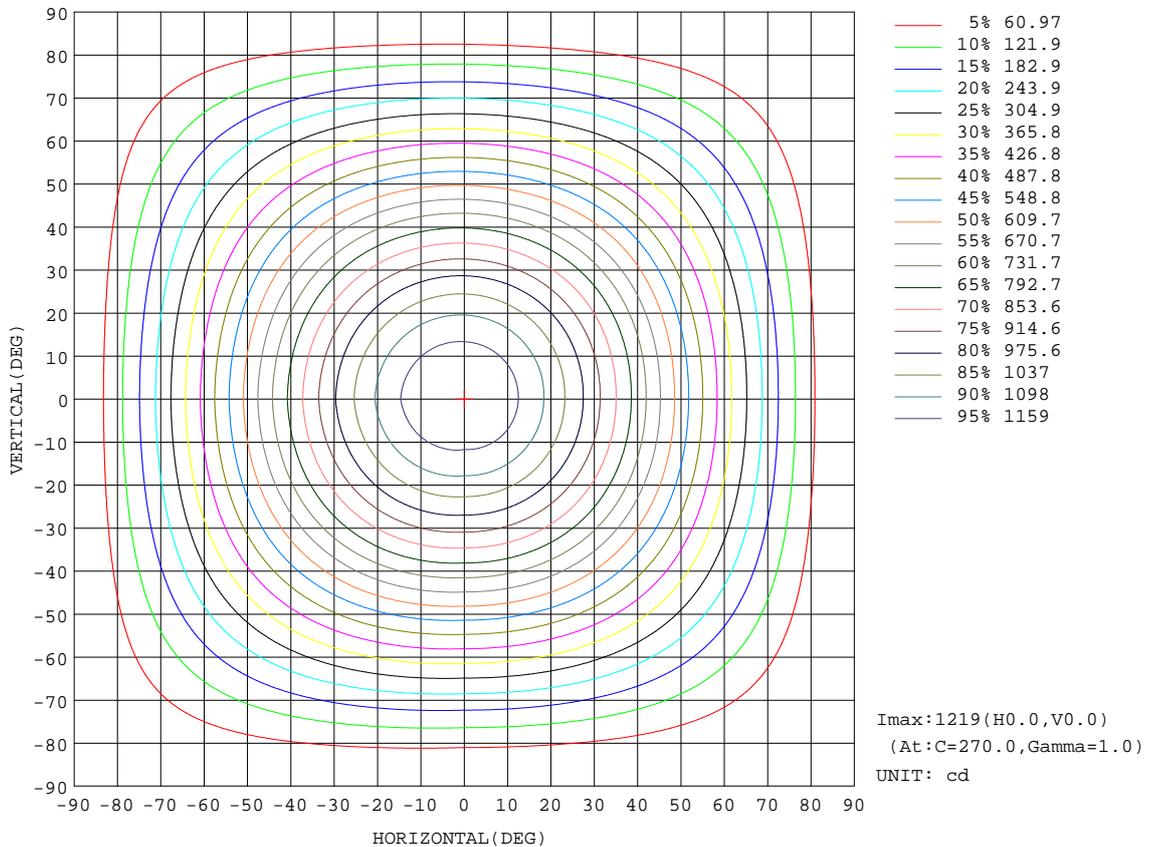
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	60	48	42	59	48	42	58	48	41	35
0.80	70	59	52	69	58	51	67	57	51	44
1.00	78	67	60	77	67	60	74	68	60	53
1.25	85	75	68	83	74	68	81	73	67	60
1.50	90	80	74	88	79	73	85	78	72	65
2.00	96	88	82	94	87	81	91	85	80	72
2.50	100	93	87	98	91	86	94	88	84	76
3.00	103	97	92	101	95	90	97	92	88	80
4.00	107	102	97	104	100	96	100	96	93	84
5.00	109	105	101	107	103	99	102	99	96	87
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-01-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.570m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:230.52V I:0.1364A P:30.796W PF:0.9797 Freq:49.99Hz UTHDi:0.20% ITHDi:19.91% KDisp:0.9997 Lamp Flux:2987.42x1 lm		
NAME: DFL30W-B-CC 30W 3000K	TYPE: 30W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: UP-IES4-R&D
MFR.:	SUR.: 0.020532	Shielding Angle:



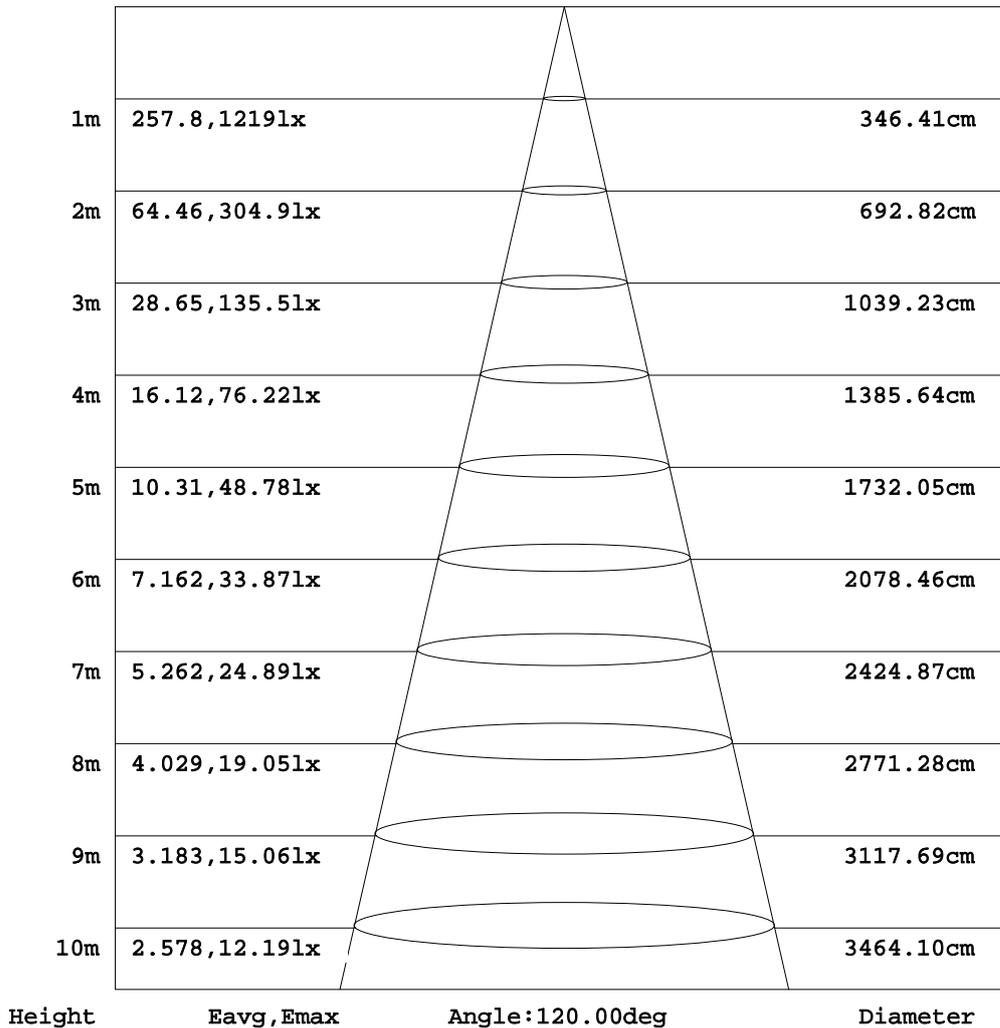
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-01-21

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:8.570m [K=1.0000]
Remarks:

AAI Figure

Test:U:230.52V I:0.1364A P:30.796W PF:0.9797 Freq:49.99Hz UTHDi:0.20% ITHDi:19.91% KDisp:0.9997 Lamp Flux:2987.42x1 lm		
NAME: DFL30W-B-CC 30W 3000K	TYPE: 30W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: UP-IES4-R&D
MFR.:	SUR.: 0.020532	Shielding Angle:

Flux out:2430 lm



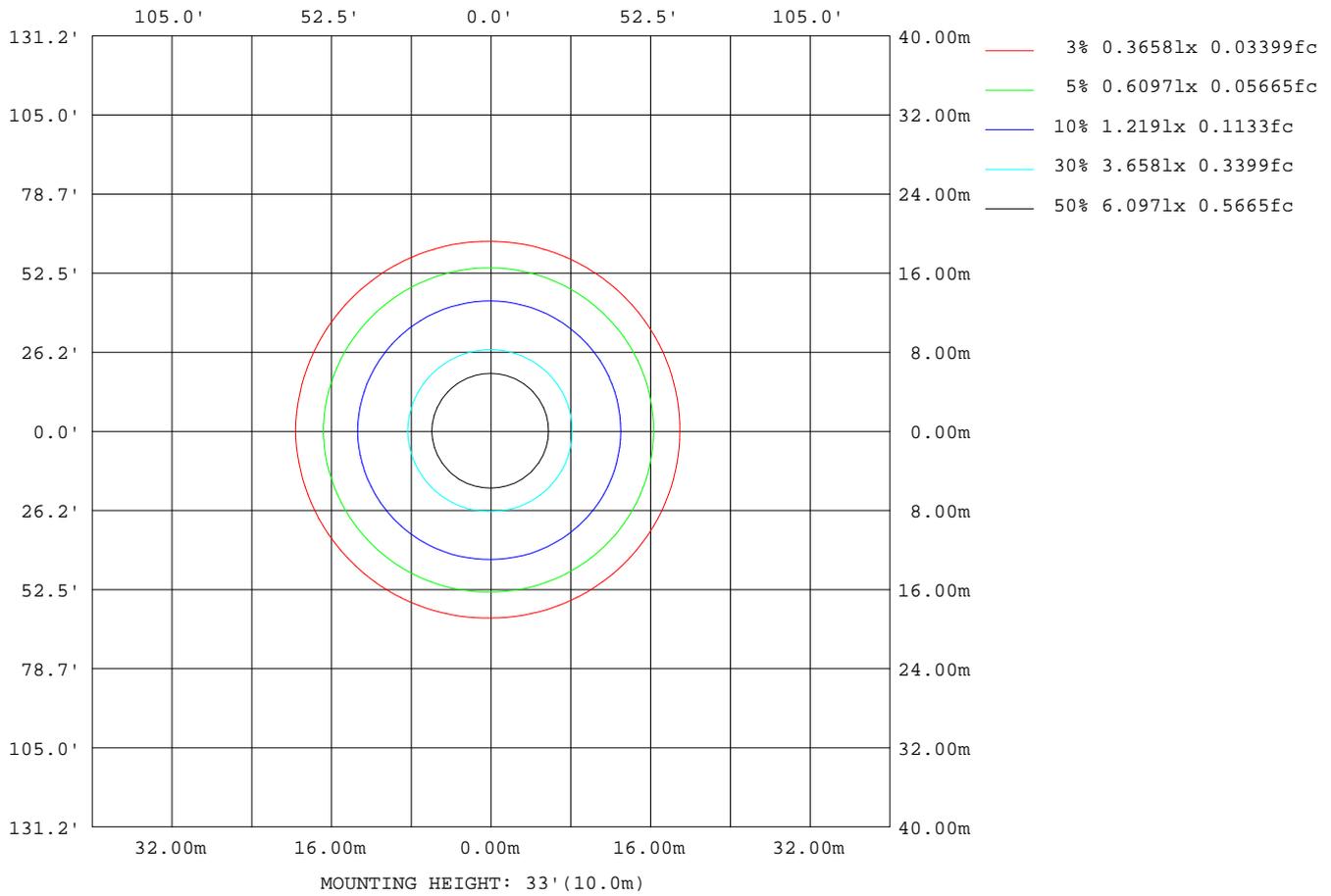
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-01-21

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:8.570m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:230.52V I:0.1364A P:30.796W PF:0.9797 Freq:49.99Hz UTHDi:0.20% ITHDi:19.91% KDisp:0.9997 Lamp Flux:2987.42x1 lm		
NAME: DFL30W-B-CC 30W 3000K	TYPE: 30W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: UP-IES4-R&D
MFR.:	SUR.: 0.020532	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-01-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.570m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:230.52V I:0.1364A P:30.796W PF:0.9797 Freq:49.99Hz UTHDi:0.20% ITHDi:19.91% KDisp:0.9997 Lamp Flux:2987.42x1 lm		
NAME: DFL30W-B-CC 30W 3000K	TYPE: 30W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: UP-IES4-R&D
MFR.:	SUR.: 0.020532	Shielding Angle:

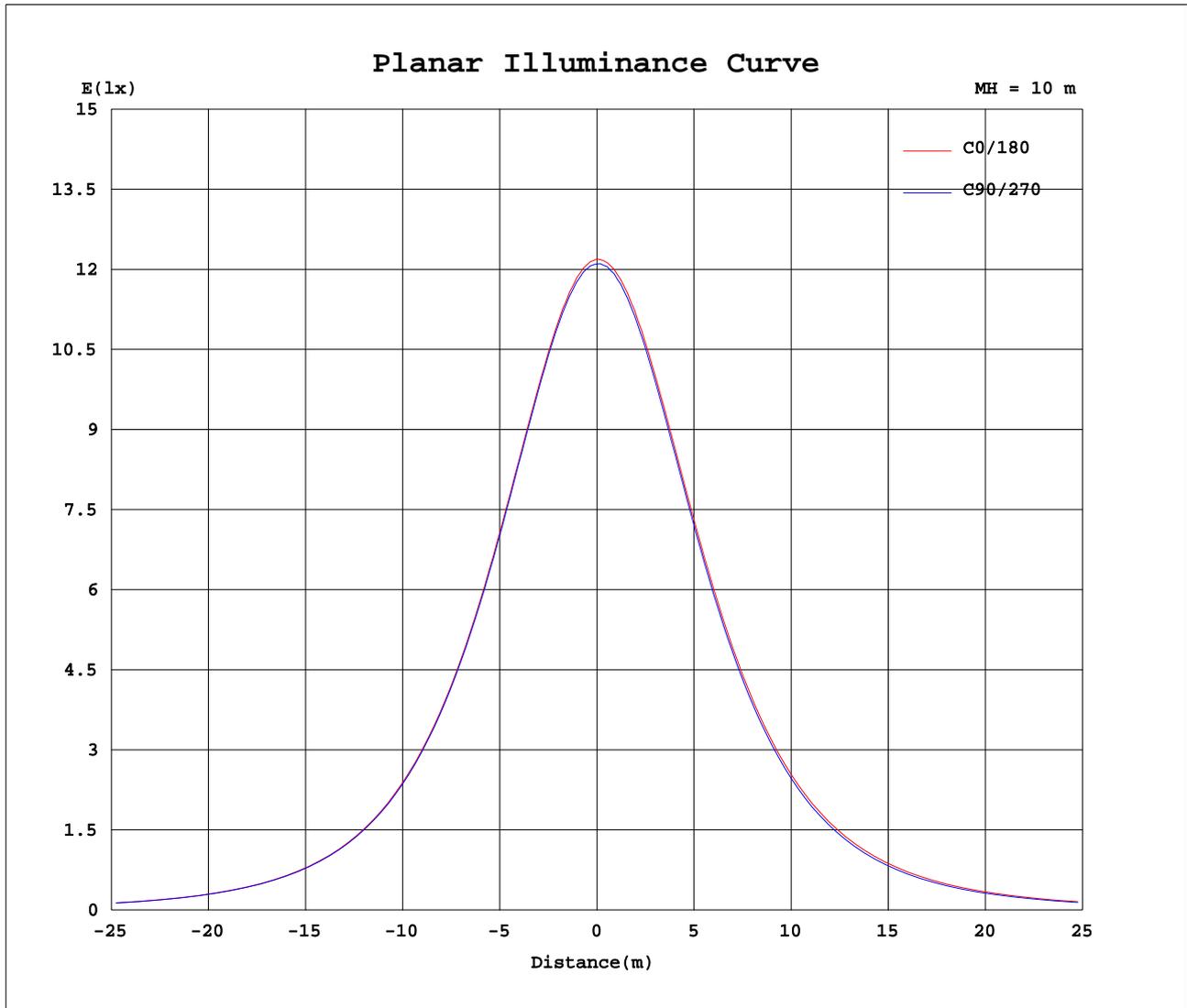
AvgL	cd/m2
L_0~180(65)av	37950
L_0~180(75)av	30424
L_0~180(85)av	16281
L_90~270(65)av	36463
L_90~270(75)av	28925
L_90~270(85)av	15370
L_45(65)av	37185
L_45(75)av	29714
L_45(85)av	16086

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
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γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.570m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2025-01-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity: 65.0%
 Test Distance: 8.570m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.52V I:0.1364A P:30.796W PF:0.9797 Freq:49.99Hz UTHDi:0.20% ITHDi:19.91% KDisp:0.9997 Lamp Flux:2987.42x1 lm		
NAME: DFL30W-B-CC 30W 3000K	TYPE: 30W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: UP-IES4-R&D
MFR.:	SUR.: 0.020532	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	90	180	270															
0	1215	1215	1215	1215															
5	1202	1203	1210	1211															
10	1175	1176	1187	1186															
15	1130	1132	1152	1149															
20	1074	1076	1100	1096															
25	1008	1008	1038	1032															
30	932	932	967	960															
35	851	851	887	879															
40	764	762	804	792															
45	673	671	716	700															
50	580	578	625	606															
55	486	484	533	511															
60	395	393	442	419															
65	307	304	352	329															
70	222	221	264	244															
75	143	143	181	164															
80	71.7	74.1	104	92.6															
85	18.4	20.9	39.8	34.1															
90	1.42	1.36	2.78	1.74															
95	1.88	1.82	1.63	1.61															
100	2.42	2.34	2.14	2.10															
105	3.05	2.98	2.72	2.66															
110	3.71	3.64	3.38	3.30															
115	4.44	4.36	4.07	3.97															
120	5.16	5.07	4.77	4.68															
125	5.88	5.81	5.50	5.38															
130	6.61	6.55	6.20	6.11															
135	7.29	7.27	6.93	6.84															
140	7.95	7.95	7.58	7.51															
145	8.52	8.61	8.21	8.20															
150	9.09	9.22	8.78	8.79															
155	9.62	9.79	9.34	9.37															
160	10.1	10.2	9.84	9.85															
165	10.5	10.6	10.3	10.3															
170	10.8	10.9	10.7	10.6															
175	11.1	11.1	10.9	10.9															
180	11.1	11.1	11.2	11.1															

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