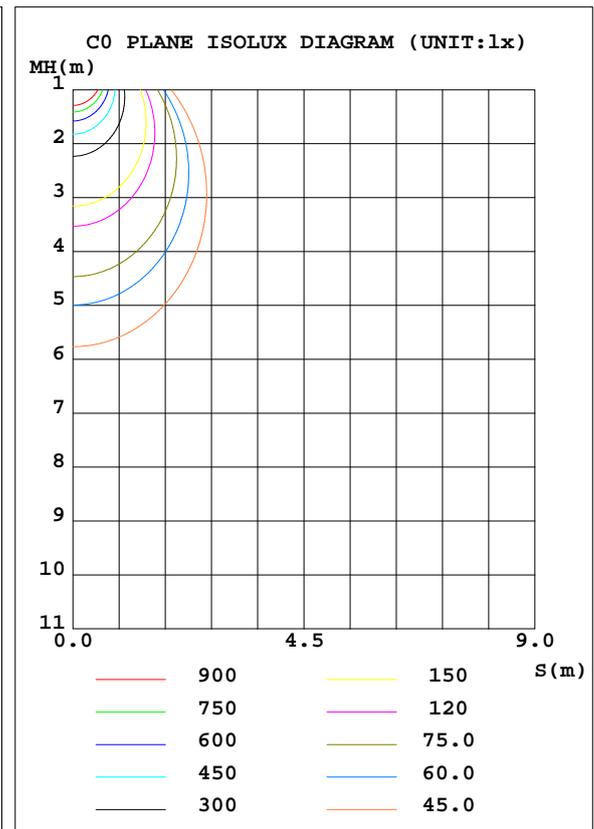
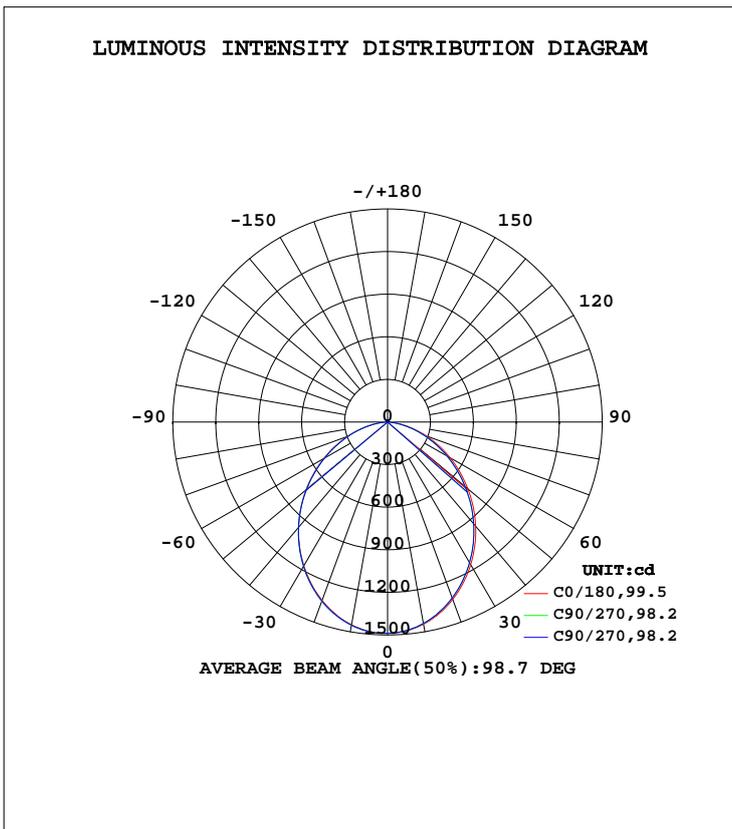


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.26V I:0.1361A P:30.701W PF:0.9795 Freq:49.99Hz UTHDi:0.23% ITHDi:19.74% KDisp:0.9997 Lamp Flux:3649.76x1 lm		
NAME: DFL30W-B-CC 30W 4000K	TYPE: 30W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: UP-IES4-R&D
MFR.:	SUR.: 0.020532	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 118.88 lm/W			
MODEL	DFL30W-B-CC 30W	I _{max} (cd)	1489	S/MH(C0/180)	1.18
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	1.18
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	3649.8	η UP, DN(C0-180)	0.6, 48.7
NOMINAL FLUX(lm)	3649.76	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.5, 50.2
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:8.690m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270				γ	Φ zone	Φ total	%lum, lamp
10	1447	1441	1450	1453				0- 10	140.1	140.1	3.84,3.84
20	1330	1319	1337	1342				10- 20	393.7	533.8	14.6,14.6
30	1161	1145	1170	1174				20- 30	576.6	1110	30.4,30.4
40	957.4	935.8	967.0	968.2				30- 40	664.6	1775	48.6,48.6
50	733.4	708.4	744.2	739.9				40- 50	652.1	2427	66.5,66.5
60	505.4	480.5	516.3	508.5				50- 60	551.0	2978	81.6,81.6
70	288.8	268.0	298.5	293.0				60- 70	389.1	3367	92.3,92.3
80	98.75	88.44	107.7	107.7				70- 80	200.9	3568	97.8,97.8
90	1.594	1.691	1.473	1.448				80- 90	40.97	3609	98.9,98.9
100	2.762	2.865	2.615	2.477				90-100	2.260	3611	98.9,98.9
110	4.320	4.371	4.158	3.957				100-110	3.605	3615	99,99
120	6.059	6.129	5.892	5.677				110-120	5.013	3620	99.2,99.2
130	7.872	8.005	7.703	7.503				120-130	6.127	3626	99.4,99.4
140	9.619	9.765	9.456	9.220				130-140	6.681	3633	99.5,99.5
150	11.21	11.40	11.04	10.88				140-150	6.480	3639	99.7,99.7
160	12.46	12.70	12.36	12.28				150-160	5.453	3645	99.9,99.9
170	13.46	13.65	13.41	13.31				160-170	3.670	3648	100,100
180	13.88	13.94	13.97	13.85				170-180	1.304	3650	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm		

Conical surface Flux(90deg): 2108.7 lm

%lum = 57.8%
%lamp = 57.8%

Conical surface Flux(120deg): 2978.2 lm

%lum = 81.6%
%lamp = 81.6%

0 - 45 DEG Zonal Flux:2108.7 %lum: 57.8%
0 - 60 DEG Zonal Flux:2978.2 %lum: 81.6%

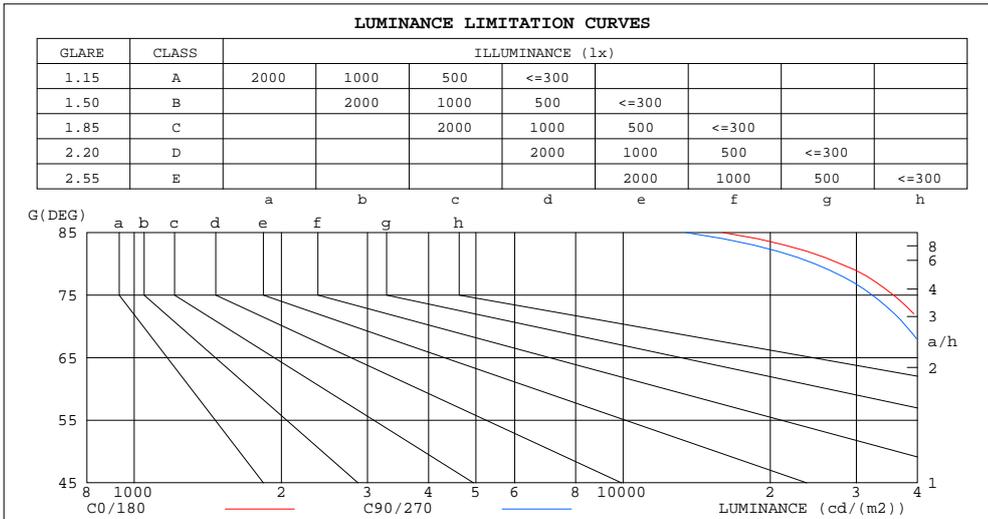
All measured values may vary less than 35 %
from the average measured value in the 0 to 130 deg. zone: 13.2%
All measured values in the 0 to 130 deg. zone
may vary less than 50% from the average value of itself: 19.3%

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:8.690m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.26V I:0.1361A P:30.701W PF:0.9795 Freq:49.99Hz UTHDi:0.23% ITHDi:19.74% KDisp:0.9997 Lamp Flux:3649.76x1 lm		
NAME: DFL30W-B-CC 30W 4000K	TYPE: 30W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: UP-IES4-R&D
MFR.:	SUR.: 0.020532	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	16005	13450
80	27839	24679
75	35739	32338
70	41338	37962
65	45768	42605
60	49487	46564
55	52772	50086
50	55856	53400
45	58636	56424

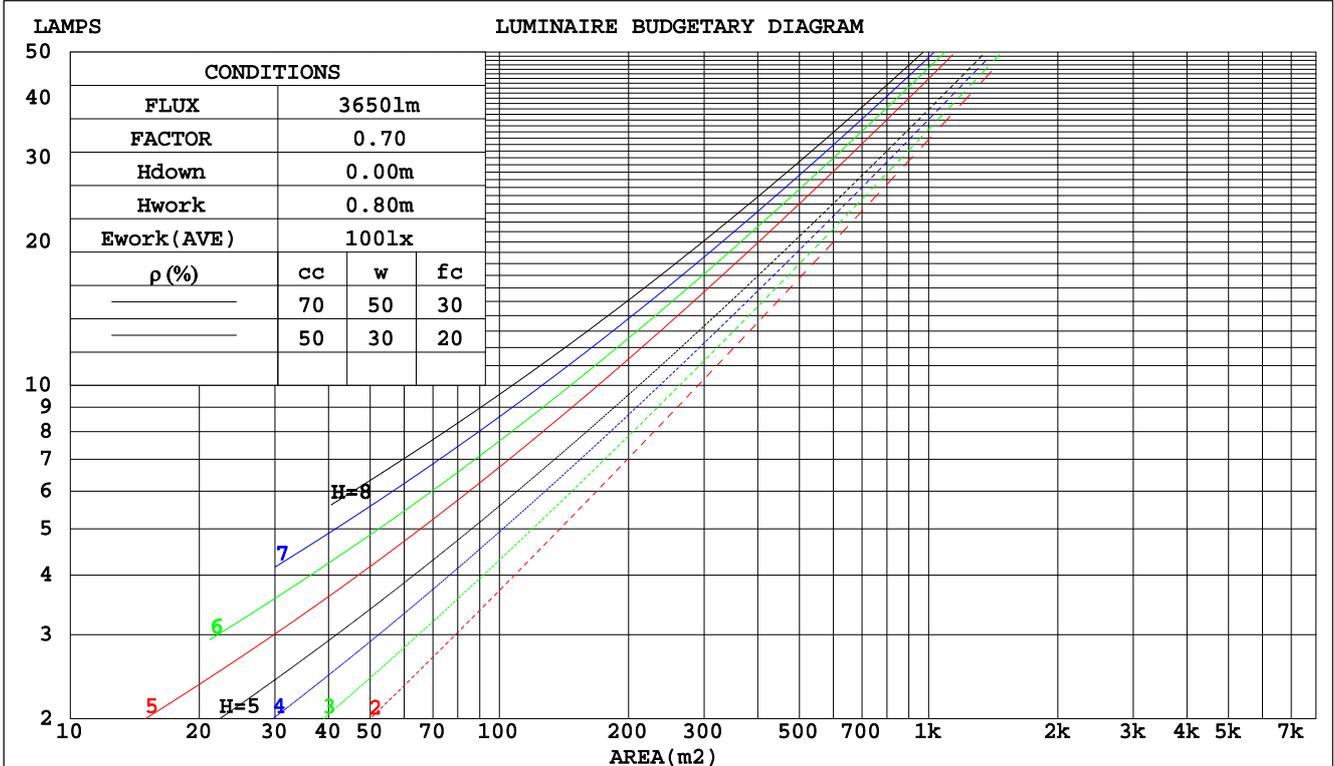
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-01-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.690m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.26V I:0.1361A P:30.701W PF:0.9795 Freq:49.99Hz UTHDi:0.23% ITHDi:19.74% KDisp:0.9997 Lamp Flux:3649.76x1 lm		
NAME: DFL30W-B-CC 30W 4000K	TYPE: 30W	WEIGHT:
SPEC.: 4000K	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																
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	.86	.80	.90	.84	.79	.86	.81	.77	.83	.79	.75	.80	.76	.73	.71
3.0	.81	.73	.67	.80	.72	.67	.77	.70	.65	.74	.68	.64	.71	.67	.63	.61
4.0	.72	.64	.57	.71	.63	.57	.68	.62	.56	.66	.60	.55	.64	.59	.54	.52
5.0	.65	.56	.50	.64	.56	.50	.62	.54	.49	.59	.53	.48	.58	.52	.48	.46
6.0	.59	.50	.44	.58	.49	.44	.56	.48	.43	.54	.48	.43	.52	.47	.42	.40
7.0	.53	.45	.39	.52	.44	.39	.51	.44	.38	.49	.43	.38	.48	.42	.38	.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	.37	.31	.43	.36	.31	.42	.35	.31	.41	.35	.31	.29
10.0	.41	.34	.29	.41	.34	.29	.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:8.690m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:230.26V I:0.1361A P:30.701W PF:0.9795 Freq:49.99Hz UTHDi:0.23% ITHDi:19.74% KDisp:0.9997 Lamp Flux:3649.76x1 lm		
NAME: DFL30W-B-CC 30W 4000K	TYPE: 30W	WEIGHT:
SPEC.: 4000K	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	.288	.164	.052	.280	.160	.051	.266	.153	.049	.254	.146	.047	.242	.140	.045	
2.0	.274	.150	.046	.268	.148	.045	.256	.142	.044	.245	.137	.043	.234	.132	.042	
3.0	.256	.136	.041	.250	.134	.040	.240	.130	.039	.230	.126	.039	.220	.122	.038	
4.0	.238	.124	.036	.233	.122	.036	.223	.118	.035	.214	.115	.035	.206	.112	.034	
5.0	.221	.113	.033	.216	.111	.032	.208	.108	.032	.200	.106	.031	.193	.103	.031	
6.0	.206	.103	.030	.202	.102	.029	.194	.100	.029	.187	.097	.029	.181	.095	.028	
7.0	.192	.095	.027	.189	.094	.027	.182	.092	.026	.175	.090	.026	.169	.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	.079	.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	.142	.125	.110	.097	.086	.063	.056	.050	.020	.018	.016	
2.0	.179	.141	.109	.153	.121	.094	.105	.084	.066	.060	.049	.038	.019	.016	.013	
3.0	.170	.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	.133	.086	.050	.092	.060	.035	.053	.035	.021	.017	.011	.007	
6.0	.148	.091	.049	.127	.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	.129	.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:8.690m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.26V I:0.1361A P:30.701W PF:0.9795 Freq:49.99Hz UTHDi:0.23% ITHDi:19.74% KDisp:0.9997 Lamp Flux:3649.76x1 lm		
NAME: DFL30W-B-CC 30W 4000K	TYPE: 30W	WEIGHT:
SPEC.: 4000K	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	26.4	27.8	26.6	28.0	28.2	26.2	27.6	26.4	27.8	28.0
3H	27.6	28.9	27.9	29.2	29.5	27.3	28.7	27.6	28.9	29.2
4H	28.1	29.3	28.4	29.6	29.9	27.7	29.0	28.1	29.3	29.5
6H	28.3	29.5	28.7	29.8	30.1	28.0	29.2	28.3	29.4	29.7
8H	28.4	29.5	28.7	29.8	30.1	28.0	29.1	28.3	29.4	29.8
12H	28.4	29.5	28.7	29.8	30.1	28.0	29.1	28.3	29.4	29.7
4H 2H	26.8	28.1	27.2	28.4	28.7	26.7	27.9	27.0	28.2	28.5
3H	28.3	29.4	28.6	29.7	30.0	28.0	29.1	28.4	29.4	29.8
4H	28.8	29.8	29.2	30.2	30.5	28.6	29.6	28.9	29.9	30.2
6H	29.2	30.1	29.6	30.4	30.8	28.9	29.8	29.3	30.1	30.5
8H	29.3	30.1	29.7	30.5	30.9	28.9	29.8	29.4	30.1	30.5
12H	29.3	30.0	29.7	30.4	30.9	28.9	29.7	29.4	30.1	30.5
8H 4H	29.0	29.8	29.4	30.2	30.6	28.7	29.6	29.2	29.9	30.4
6H	29.4	30.1	29.9	30.5	31.0	29.2	29.8	29.6	30.3	30.7
8H	29.6	30.2	30.0	30.6	31.1	29.3	29.9	29.7	30.3	30.8
12H	29.6	30.1	30.1	30.6	31.1	29.3	29.8	29.8	30.3	30.8
12H 4H	29.0	29.7	29.4	30.1	30.6	28.7	29.5	29.2	29.9	30.3
6H	29.5	30.1	29.9	30.5	31.0	29.2	29.8	29.6	30.2	30.7
8H	29.6	30.1	30.1	30.6	31.1	29.3	29.8	29.8	30.3	30.8
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 / - 0.4				
2.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.4				

CIE Pub.117, 3650 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 4.5)
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:8.690m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.26V I:0.1361A P:30.701W PF:0.9795 Freq:49.99Hz UTHDi:0.23% ITHDi:19.74% KDisp:0.9997 Lamp Flux:3649.76x1 lm		
NAME: DFL30W-B-CC 30W 4000K	TYPE: 30W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: UP-IES4-R&D
MFR.:	SUR.: 0.020532	Shielding Angle:

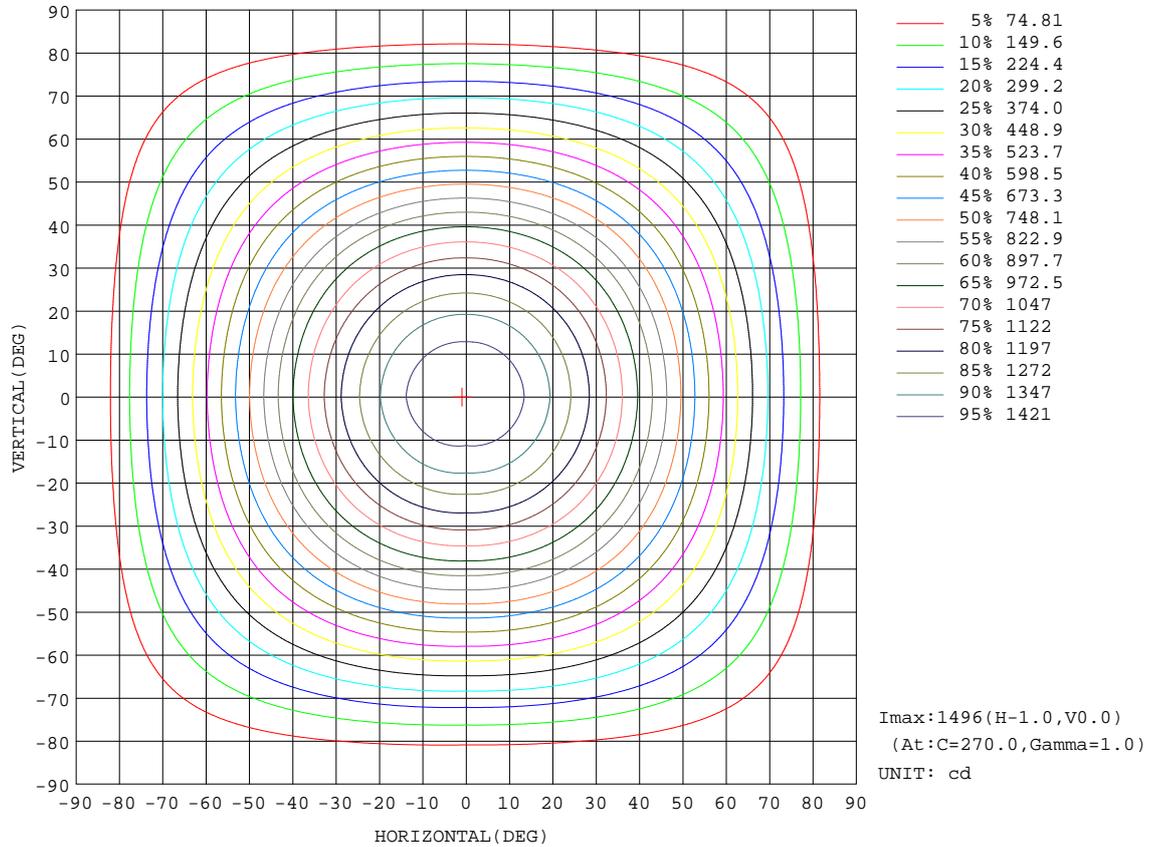
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	60	49	42	59	48	42	58	48	42	35
0.80	70	59	52	69	58	52	67	57	51	44
1.00	78	68	61	77	67	60	75	68	60	53
1.25	85	75	68	84	74	68	81	73	67	60
1.50	90	81	74	88	80	73	85	78	72	65
2.00	96	88	82	95	87	82	91	85	80	72
2.50	100	93	87	98	91	86	94	89	84	76
3.00	103	97	92	101	95	91	97	92	88	80
4.00	107	102	97	105	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:8.690m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:230.26V I:0.1361A P:30.701W PF:0.9795 Freq:49.99Hz UTHDi:0.23% ITHDi:19.74% KDisp:0.9997 Lamp Flux:3649.76x1 lm		
NAME: DFL30W-B-CC 30W 4000K	TYPE: 30W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: UP-IES4-R&D
MFR.:	SUR.: 0.020532	Shielding Angle:



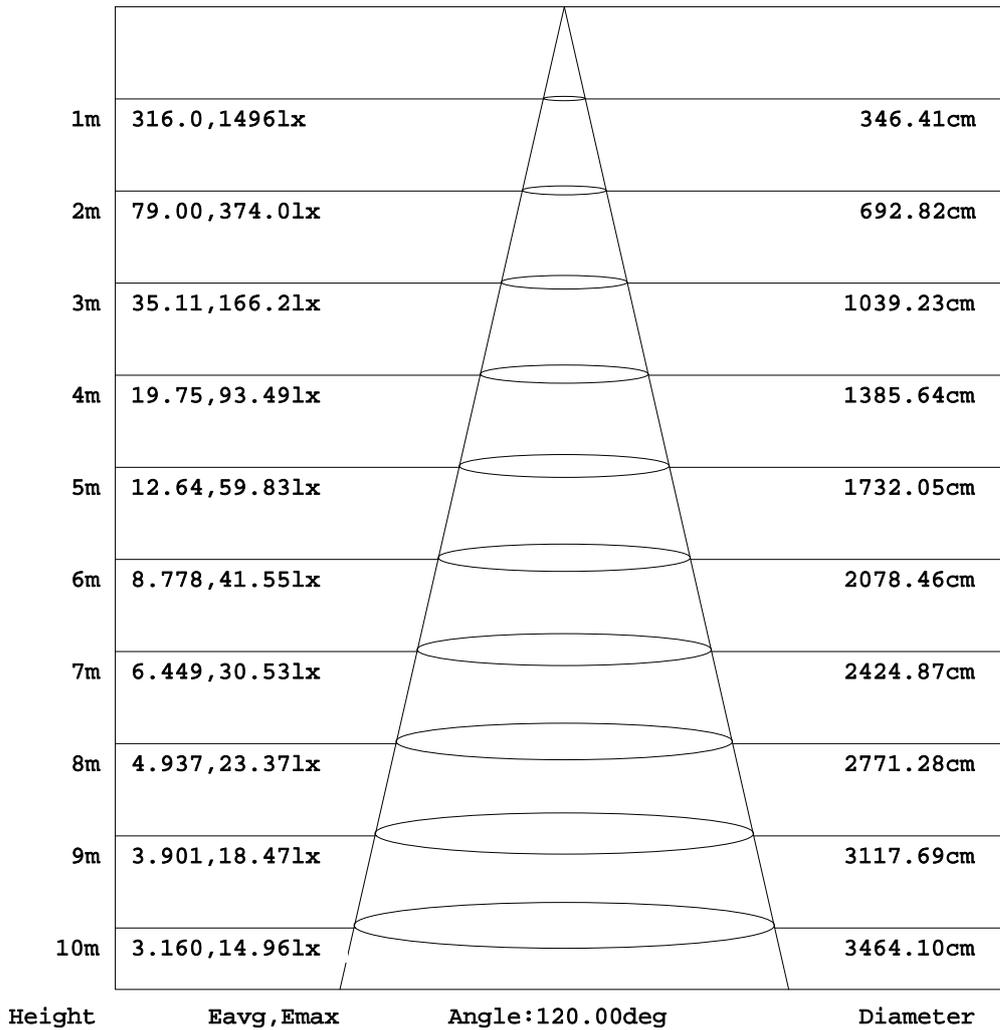
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-01-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.690m [K=1.0000]
 Remarks:

AAI Figure

Test:U:230.26V I:0.1361A P:30.701W PF:0.9795 Freq:49.99Hz UTHDi:0.23% ITHDi:19.74% KDisp:0.9997 Lamp Flux:3649.76x1 lm		
NAME: DFL30W-B-CC 30W 4000K	TYPE: 30W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: UP-IES4-R&D
MFR.:	SUR.: 0.020532	Shielding Angle:

Flux out:2978 lm



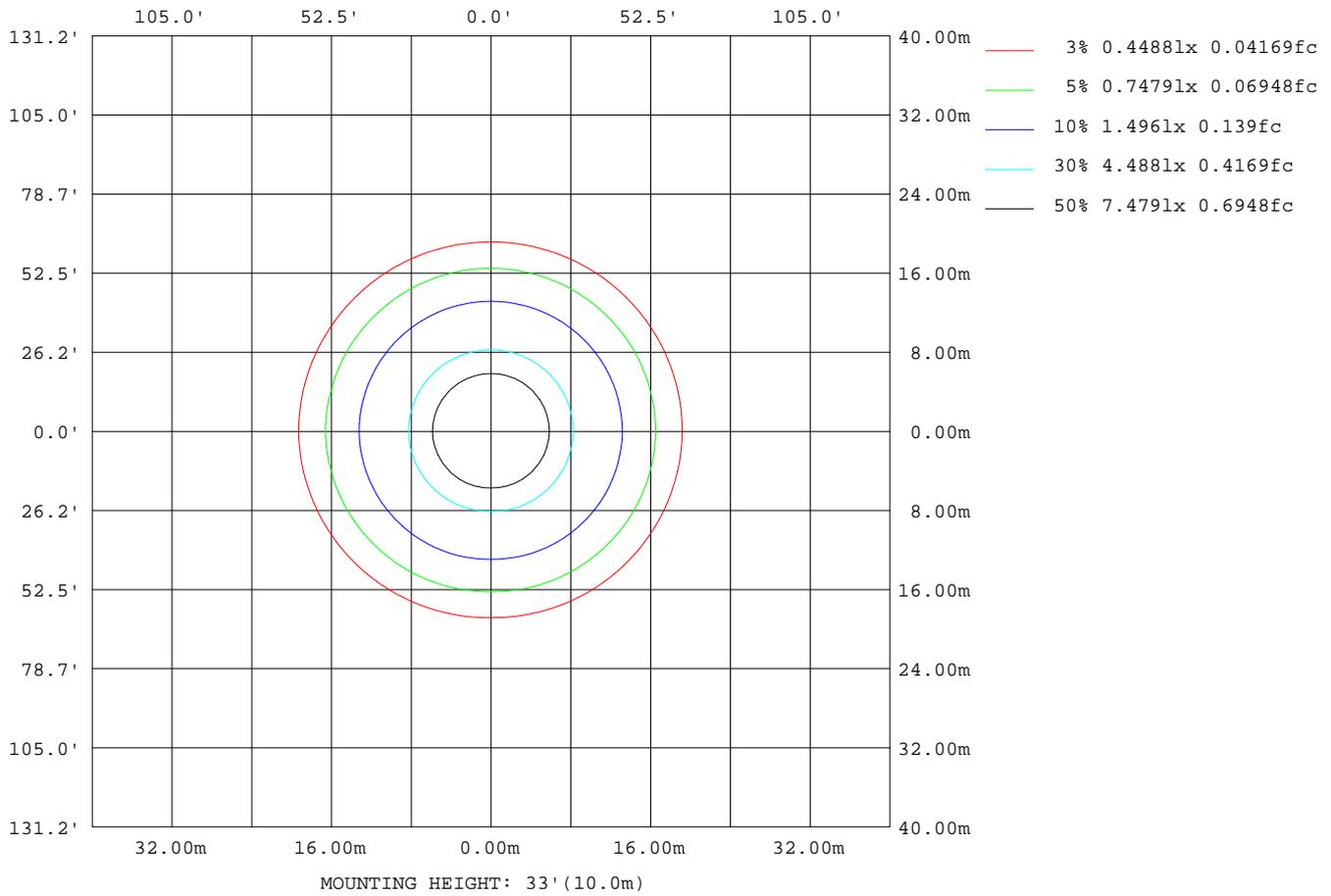
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:8.690m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:230.26V I:0.1361A P:30.701W PF:0.9795 Freq:49.99Hz UTHDi:0.23% ITHDi:19.74% KDisp:0.9997 Lamp Flux:3649.76x1 lm		
NAME: DFL30W-B-CC 30W 4000K	TYPE: 30W	WEIGHT:
SPEC.: 4000K	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:8.690m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:230.26V I:0.1361A P:30.701W PF:0.9795 Freq:49.99Hz UTHDi:0.23% ITHDi:19.74% KDisp:0.9997 Lamp Flux:3649.76x1 lm		
NAME: DFL30W-B-CC 30W 4000K	TYPE: 30W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: UP-IES4-R&D
MFR.:	SUR.: 0.020532	Shielding Angle:

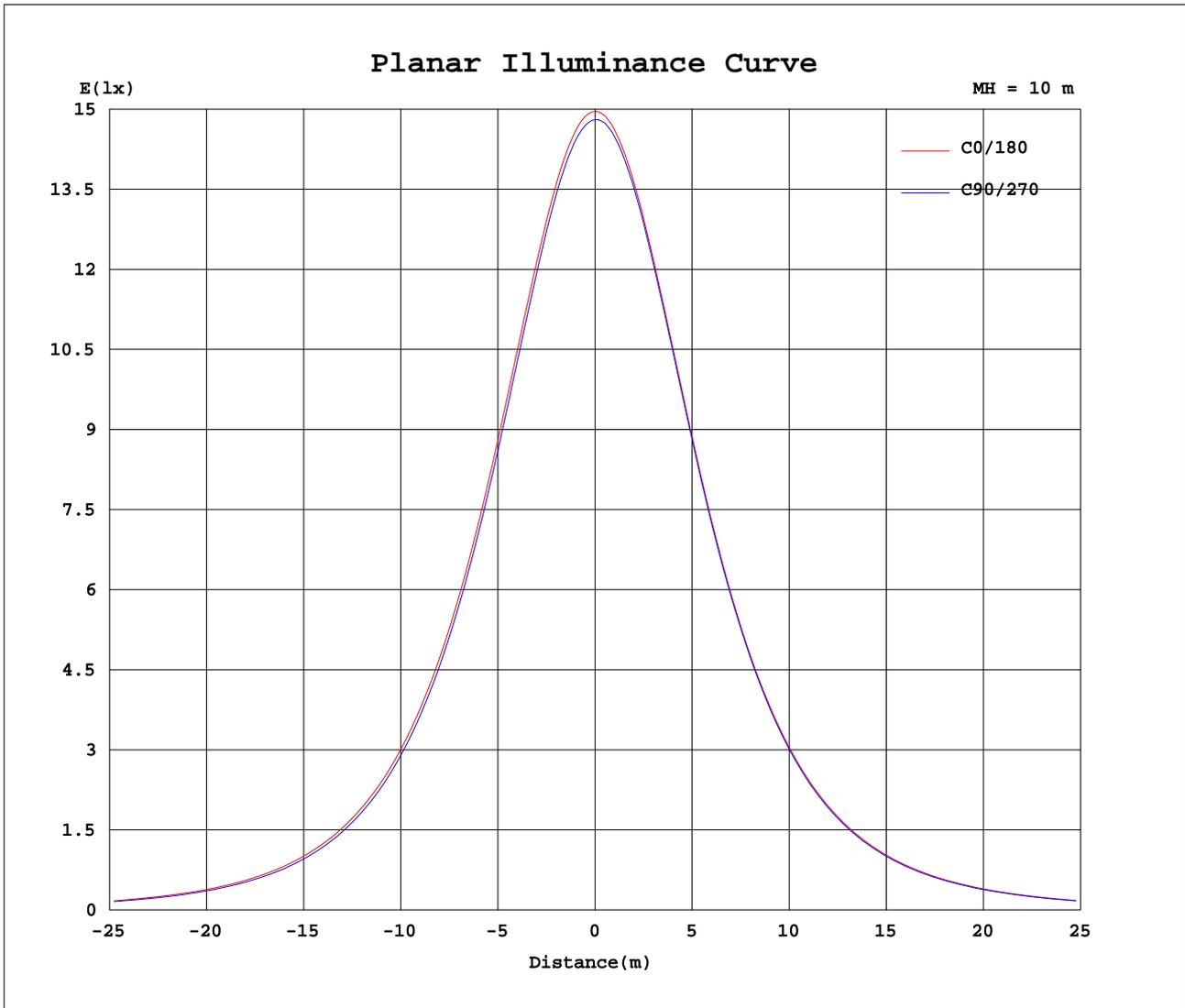
AvgL	cd/m2
L_0~180(65)av	46187
L_0~180(75)av	36467
L_0~180(85)av	17747
L_90~270(65)av	44339
L_90~270(75)av	34645
L_90~270(85)av	16989
L_45(65)av	45076
L_45(75)av	35389
L_45(85)av	17388

Standard: GB/T 29293-2012

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:8.690m [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: 8.690m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.26V I:0.1361A P:30.701W PF:0.9795 Freq:49.99Hz UTHDi:0.23% ITHDi:19.74% KDisp:0.9997 Lamp Flux:3649.76x1 lm		
NAME: DFL30W-B-CC 30W 4000K	TYPE: 30W	WEIGHT:
SPEC.: 4000K	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	1488	1488	1488	1488															
5	1478	1475	1480	1482															
10	1447	1441	1450	1453															
15	1395	1388	1401	1406															
20	1330	1319	1337	1342															
25	1251	1238	1259	1264															
30	1161	1145	1170	1174															
35	1063	1044	1072	1075															
40	957	936	967	968															
45	847	823	857	856															
50	733	708	744	740															
55	618	593	629	623															
60	505	480	516	508															
65	395	372	406	398															
70	289	268	299	293															
75	189	173	199	195															
80	98.7	88.4	108	108															
85	28.5	24.2	35.0	36.6															
90	1.59	1.69	1.47	1.45															
95	2.10	2.23	2.00	1.88															
100	2.76	2.87	2.62	2.48															
105	3.51	3.55	3.37	3.18															
110	4.32	4.37	4.16	3.96															
115	5.17	5.24	5.00	4.81															
120	6.06	6.13	5.89	5.68															
125	6.96	7.05	6.78	6.56															
130	7.87	8.01	7.70	7.50															
135	8.77	8.91	8.59	8.37															
140	9.62	9.77	9.46	9.22															
145	10.4	10.6	10.3	10.1															
150	11.2	11.4	11.0	10.9															
155	11.9	12.1	11.8	11.6															
160	12.5	12.7	12.4	12.3															
165	13.0	13.3	13.0	12.9															
170	13.5	13.6	13.4	13.3															
175	13.8	13.9	13.7	13.6															
180	13.9	13.9	14.0	13.8															

C Range: 0 - 360DEG
 C Interval: 90.0DEG
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