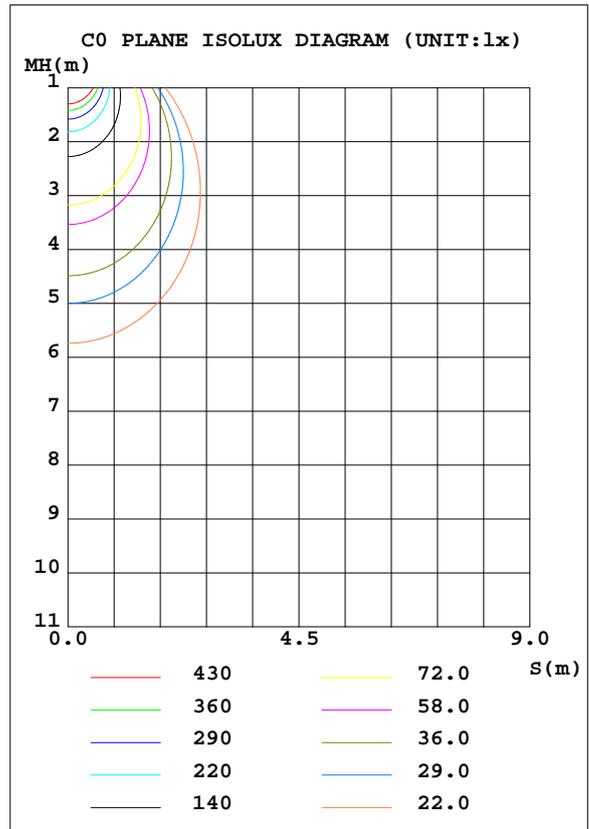
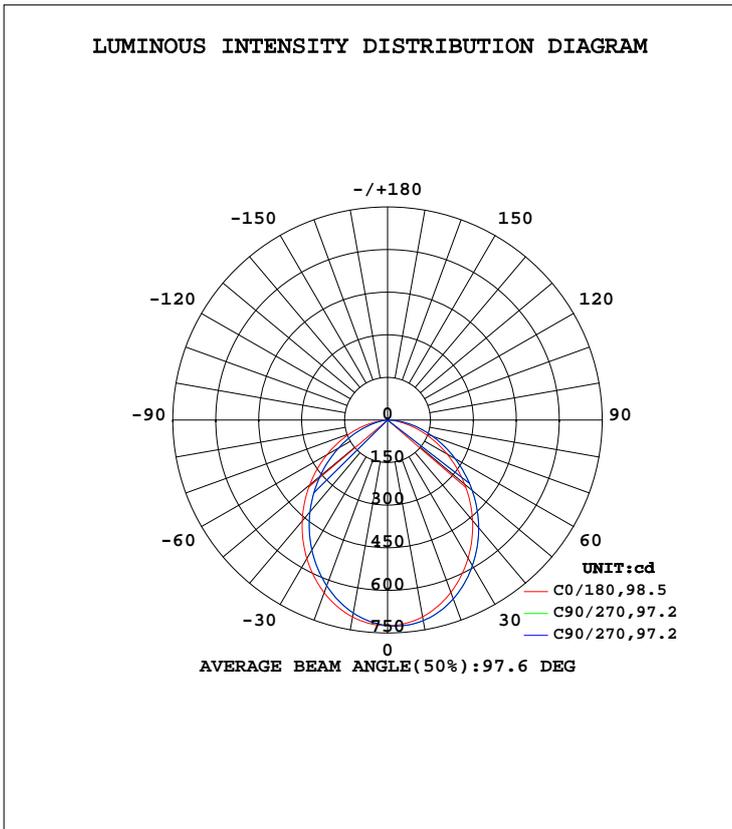


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.29V I:0.0679A P:15.325W PF:0.9799 Freq:49.99Hz UTHDi:0.19% ITHDi:20.23% KDisp:0.9996 Lamp Flux:1755.63x1 lm		
NAME: DFL30W-B-CC 15W 3000K	TYPE: 15W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: UP-IES4-R&D
MFR.:	SUR.: 0.020532	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 114.56 lm/W			
MODEL	DFL30W-B-CC 15W	I _{max} (cd)	726.4	S/MH(C0/180)	1.17
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)	1.11
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	1755.6	η UP, DN(C0-180)	0.6, 52.0
NOMINAL FLUX(lm)	1755.63	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.6, 46.9
LAMPS INSIDE	1	η up(%)	1.1	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230	η down(%)	98.9	CIBSE SHR MAX	1.30



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-1-22

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	703.5	717.3	704.4	689.9				0- 10	68.15	68.15	3.88,3.88
20	646.2	670.7	647.0	621.5				10- 20	191.2	259.4	14.8,14.8
30	562.6	592.2	563.8	529.0				20- 30	279.2	538.6	30.7,30.7
40	461.8	495.3	464.0	421.7				30- 40	320.6	859.2	48.9,48.9
50	351.2	386.2	355.4	308.0				40- 50	313.1	1172	66.8,66.8
60	240.4	272.8	245.0	198.4				50- 60	262.9	1435	81.8,81.8
70	136.7	166.9	140.9	99.61				60- 70	184.7	1620	92.3,92.3
80	46.76	73.36	48.83	21.87				70- 80	94.96	1715	97.7,97.7
90	0.7252	6.968	0.6947	0.8398				80- 90	20.90	1736	98.9,98.9
100	1.288	1.055	1.273	1.444				90-100	1.248	1737	98.9,98.9
110	2.031	1.721	1.997	2.193				100-110	1.708	1739	99,99
120	2.883	2.539	2.832	3.077				110-120	2.380	1741	99.2,99.2
130	3.795	3.457	3.731	3.986				120-130	2.939	1744	99.3,99.3
140	4.684	4.354	4.614	4.838				130-140	3.231	1747	99.5,99.5
150	5.457	5.237	5.398	5.613				140-150	3.153	1751	99.7,99.7
160	6.121	5.981	6.061	6.223				150-160	2.665	1753	99.9,99.9
170	6.650	6.566	6.584	6.663				160-170	1.801	1755	100,100
180	6.851	6.840	6.863	6.828				170-180	0.6415	1756	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm		

Conical surface Flux(90deg): 1019.6 lm

%lum = 58.1%
%lamp = 58.1%

Conical surface Flux(120deg): 1435.3 lm

%lum = 81.8%
%lamp = 81.8%

0 - 45 DEG Zonal Flux:1019.6 %lum: 58.1%
0 - 60 DEG Zonal Flux:1435.3 %lum: 81.8%

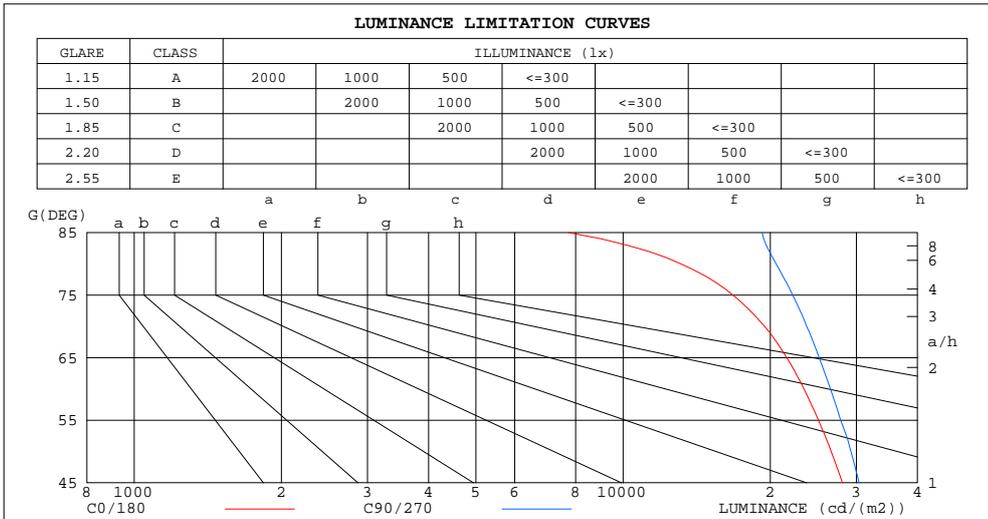
All measured values may vary less than 35 %
from the average measured value in the 0 to 130 deg. zone: 13.5%
All measured values in the 0 to 130 deg. zone
may vary less than 50% from the average value of itself: 19.1%

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-1-22

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:230.29V I:0.0679A P:15.325W PF:0.9799 Freq:49.99Hz UTHDi:0.19% ITHDi:20.23% KDisp:0.9996 Lamp Flux:1755.63x1 lm		
NAME: DFL30W-B-CC 15W 3000K	TYPE: 15W	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	7727	19241
80	13126	20556
75	16778	22229
70	19479	23750
65	21618	25172
60	23435	26549
55	25110	27867
50	26633	29234
45	28087	30389

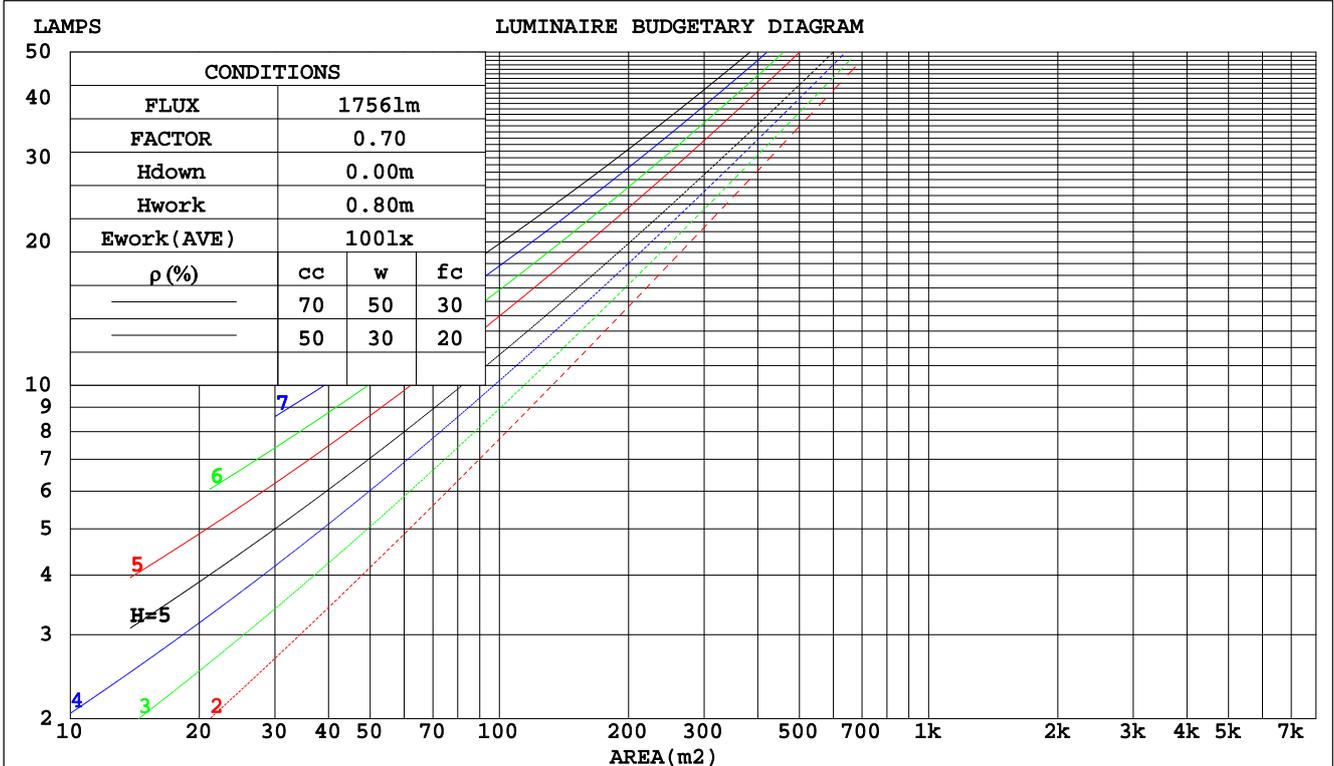
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-1-22

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:230.29V I:0.0679A P:15.325W PF:0.9799 Freq:49.99Hz UTHDi:0.19% ITHDi:20.23% KDisp:0.9996 Lamp Flux:1755.63x1 lm		
NAME: DFL30W-B-CC 15W 3000K	TYPE: 15W	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																
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	.96	.98	.95	.92	.94	.92	.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	.74	.67	.80	.73	.67	.77	.70	.65	.74	.69	.64	.71	.67	.63	.61
4.0	.72	.64	.58	.71	.63	.57	.68	.62	.56	.66	.60	.55	.64	.59	.55	.52
5.0	.65	.56	.50	.64	.56	.50	.62	.55	.49	.60	.53	.48	.58	.52	.48	.46
6.0	.59	.50	.44	.58	.50	.44	.56	.49	.43	.54	.48	.43	.52	.47	.42	.40
7.0	.53	.45	.39	.53	.45	.39	.51	.44	.38	.49	.43	.38	.48	.42	.38	.36
8.0	.49	.41	.35	.48	.40	.35	.47	.40	.35	.45	.39	.34	.44	.38	.34	.32
9.0	.45	.37	.32	.44	.37	.31	.43	.36	.31	.42	.36	.31	.41	.35	.31	.29
10.0	.42	.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:2025-1-22

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:230.29V I:0.0679A P:15.325W PF:0.9799 Freq:49.99Hz UTHDi:0.19% ITHDi:20.23% KDisp:0.9996 Lamp Flux:1755.63x1 lm		
NAME: DFL30W-B-CC 15W 3000K	TYPE: 15W	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	.287	.163	.052	.280	.160	.051	.266	.153	.049	.253	.146	.047	.242	.140	.045	
2.0	.274	.150	.046	.267	.147	.045	.255	.142	.044	.244	.137	.043	.233	.132	.042	
3.0	.255	.136	.041	.250	.134	.040	.239	.129	.039	.229	.125	.038	.220	.122	.038	
4.0	.237	.123	.036	.232	.121	.036	.223	.118	.035	.214	.115	.035	.206	.112	.034	
5.0	.220	.112	.033	.216	.111	.032	.207	.108	.032	.200	.105	.031	.192	.103	.031	
6.0	.205	.103	.029	.201	.102	.029	.194	.099	.029	.187	.097	.029	.180	.095	.028	
7.0	.192	.095	.027	.188	.094	.027	.181	.092	.026	.175	.090	.026	.169	.088	.026	
8.0	.180	.088	.025	.176	.087	.025	.170	.085	.024	.165	.083	.024	.159	.082	.024	
9.0	.169	.082	.023	.166	.081	.023	.160	.079	.022	.155	.078	.022	.150	.076	.022	
10.0	.159	.076	.021	.156	.076	.021	.151	.074	.021	.147	.073	.021	.142	.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	.031	.019	.014	.010	
4.0	.163	.110	.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	.073	.038	.084	.051	.027	.049	.030	.016	.016	.010	.005	
8.0	.135	.078	.038	.117	.068	.033	.081	.047	.024	.047	.028	.014	.015	.009	.005	
9.0	.129	.073	.035	.112	.063	.030	.077	.044	.022	.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:2025-1-22

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:230.29V I:0.0679A P:15.325W PF:0.9799 Freq:49.99Hz UTHDi:0.19% ITHDi:20.23% KDisp:0.9996 Lamp Flux:1755.63x1 lm		
NAME: DFL30W-B-CC 15W 3000K	TYPE: 15W	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	24.0	25.4	24.3	25.6	25.9	24.4	25.9	24.7	26.1	26.3
3H	25.2	26.5	25.5	26.8	27.0	25.8	27.2	26.1	27.4	27.7
4H	25.6	26.9	26.0	27.2	27.5	26.4	27.7	26.7	27.9	28.2
6H	25.9	27.1	26.2	27.4	27.7	26.8	28.0	27.2	28.3	28.6
8H	25.9	27.1	26.3	27.4	27.7	27.0	28.1	27.3	28.4	28.7
12H	25.9	27.0	26.3	27.4	27.7	27.1	28.2	27.5	28.5	28.8
4H 2H	24.6	25.8	24.9	26.1	26.4	24.9	26.2	25.2	26.4	26.7
3H	26.0	27.1	26.3	27.4	27.7	26.5	27.6	26.9	27.9	28.2
4H	26.5	27.5	26.9	27.9	28.2	27.2	28.2	27.6	28.5	28.9
6H	26.9	27.8	27.3	28.2	28.5	27.8	28.7	28.2	29.0	29.4
8H	27.0	27.8	27.4	28.2	28.6	28.0	28.8	28.4	29.2	29.6
12H	27.0	27.8	27.5	28.2	28.6	28.1	28.9	28.6	29.3	29.7
8H 4H	26.8	27.6	27.2	28.0	28.4	27.4	28.2	27.8	28.6	29.0
6H	27.3	28.0	27.7	28.4	28.8	28.1	28.8	28.6	29.2	29.6
8H	27.4	28.0	27.9	28.5	29.0	28.4	29.0	28.9	29.4	29.9
12H	27.5	28.0	28.0	28.5	29.0	28.6	29.1	29.1	29.6	30.1
12H 4H	26.8	27.6	27.3	28.0	28.4	27.4	28.1	27.8	28.5	29.0
6H	27.3	27.9	27.8	28.4	28.9	28.1	28.7	28.6	29.2	29.6
8H	27.5	28.0	28.0	28.5	29.0	28.4	29.0	28.9	29.4	29.9
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.4					+ 0.1 / - 0.3				
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.3				

CIE Pub.117, 1756 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 2.0)
Area: 0.020532 m2

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-1-22

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:230.29V I:0.0679A P:15.325W PF:0.9799 Freq:49.99Hz UTHDi:0.19% ITHDi:20.23% KDisp:0.9996 Lamp Flux:1755.63x1 lm		
NAME: DFL30W-B-CC 15W 3000K	TYPE: 15W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: UP-IES4-R&D
MFR.:	SUR.: 0.020532	Shielding Angle:

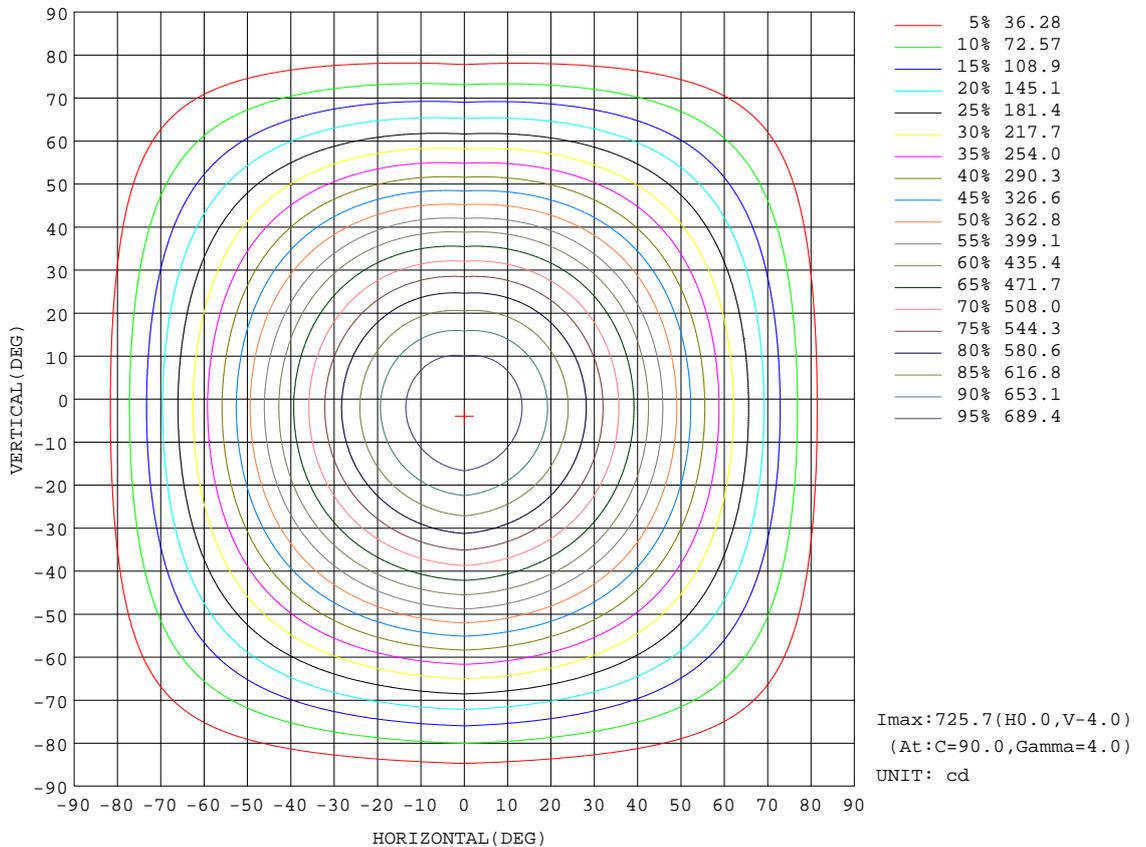
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	60	49	42	59	49	42	58	48	42	36
0.80	70	59	52	69	58	52	67	58	51	45
1.00	78	68	61	77	67	61	75	68	60	53
1.25	85	75	69	84	75	68	81	73	67	60
1.50	90	81	74	88	80	74	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:2025-1-22

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:230.29V I:0.0679A P:15.325W PF:0.9799 Freq:49.99Hz UTHDi:0.19% ITHDi:20.23% KDisp:0.9996 Lamp Flux:1755.63x1 lm		
NAME: DFL30W-B-CC 15W 3000K	TYPE: 15W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: UP-IES4-R&D
MFR.:	SUR.: 0.020532	Shielding Angle:



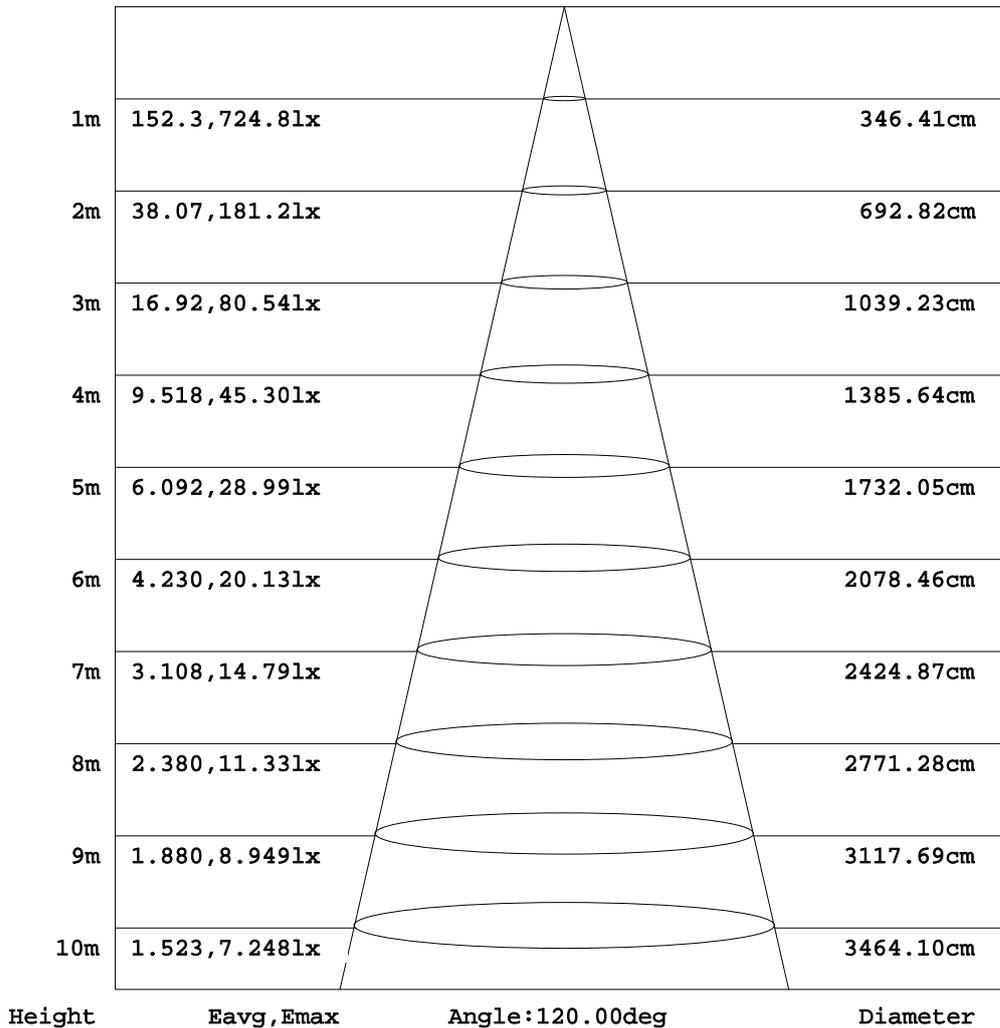
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-1-22

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:230.29V I:0.0679A P:15.325W PF:0.9799 Freq:49.99Hz UTHDi:0.19% ITHDi:20.23% KDisp:0.9996 Lamp Flux:1755.63x1 lm		
NAME: DFL30W-B-CC 15W 3000K	TYPE: 15W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: UP-IES4-R&D
MFR.:	SUR.: 0.020532	Shielding Angle:

Flux out:1435 lm



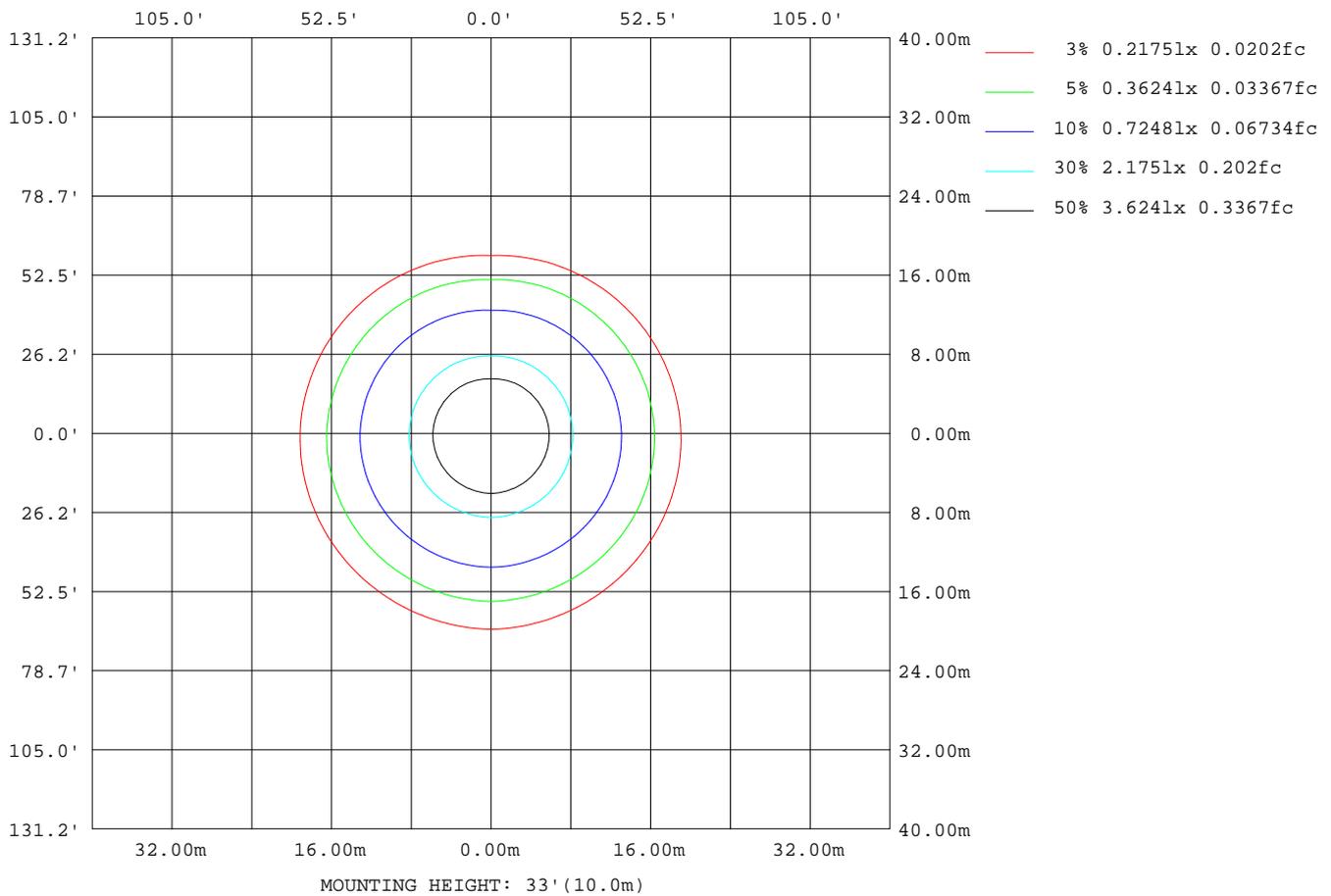
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-1-22

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:230.29V I:0.0679A P:15.325W PF:0.9799 Freq:49.99Hz UTHDi:0.19% ITHDi:20.23% KDisp:0.9996 Lamp Flux:1755.63x1 lm		
NAME: DFL30W-B-CC 15W 3000K	TYPE: 15W	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:2025-1-22

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:230.29V I:0.0679A P:15.325W PF:0.9799 Freq:49.99Hz UTHDi:0.19% ITHDi:20.23% KDisp:0.9996 Lamp Flux:1755.63x1 lm		
NAME: DFL30W-B-CC 15W 3000K	TYPE: 15W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: UP-IES4-R&D
MFR.:	SUR.: 0.020532	Shielding Angle:

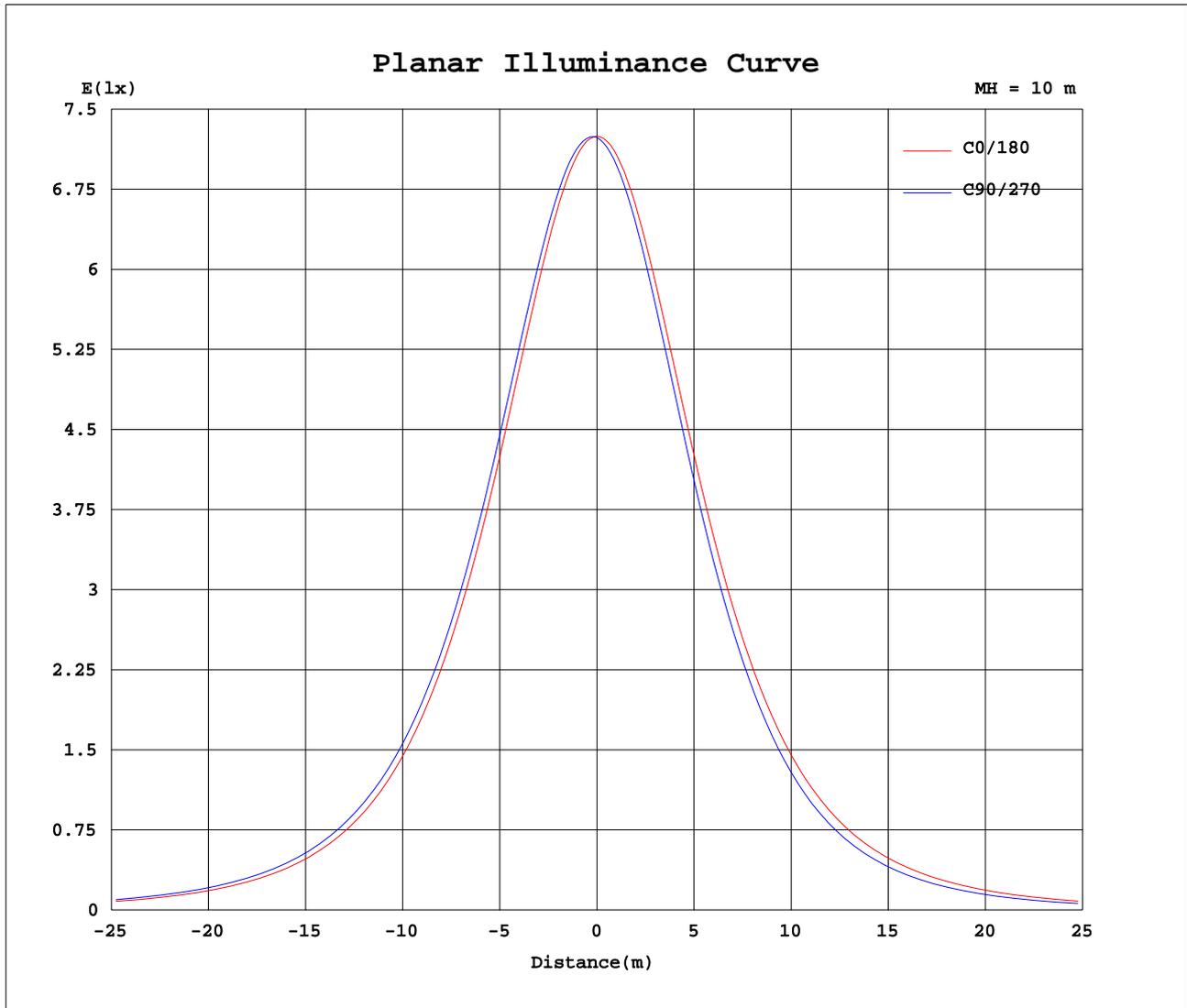
AvgL	cd/m2
L_0~180(65)av	21864
L_0~180(75)av	17096
L_0~180(85)av	7918
L_90~270(65)av	21085
L_90~270(75)av	16489
L_90~270(85)av	10056
L_45(65)av	21395
L_45(75)av	16738
L_45(85)av	9266

Standard: GB/T 29293-2012

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 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
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 Remarks:

Planar Illuminance Curve



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 Operators:
 Test Date: 2025-1-22

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 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:230.29V I:0.0679A P:15.325W PF:0.9799 Freq:49.99Hz UTHDi:0.19% ITHDi:20.23% KDisp:0.9996 Lamp Flux:1755.63x1 lm		
NAME: DFL30W-B-CC 15W 3000K	TYPE: 15W	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	724	724	724	724															
5	719	726	719	712															
10	704	717	704	690															
15	679	699	680	659															
20	646	671	647	622															
25	607	635	608	577															
30	563	592	564	529															
35	513	546	515	477															
40	462	495	464	422															
45	407	442	410	365															
50	351	386	355	308															
55	295	328	299	252															
60	240	273	245	198															
65	187	219	192	147															
70	137	167	141	99.6															
75	89.1	118	92.6	57.0															
80	46.8	73.4	48.8	21.9															
85	13.8	34.5	14.5	1.53															
90	0.73	6.97	0.69	0.84															
95	0.99	0.77	0.94	1.12															
100	1.29	1.05	1.27	1.44															
105	1.65	1.37	1.61	1.82															
110	2.03	1.72	2.00	2.19															
115	2.45	2.12	2.39	2.64															
120	2.88	2.54	2.83	3.08															
125	3.33	2.99	3.27	3.53															
130	3.79	3.46	3.73	3.99															
135	4.23	3.90	4.17	4.42															
140	4.68	4.35	4.61	4.84															
145	5.10	4.82	5.01	5.23															
150	5.46	5.24	5.40	5.61															
155	5.82	5.64	5.75	5.93															
160	6.12	5.98	6.06	6.22															
165	6.42	6.32	6.36	6.49															
170	6.65	6.57	6.58	6.66															
175	6.81	6.76	6.74	6.78															
180	6.85	6.84	6.86	6.83															

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