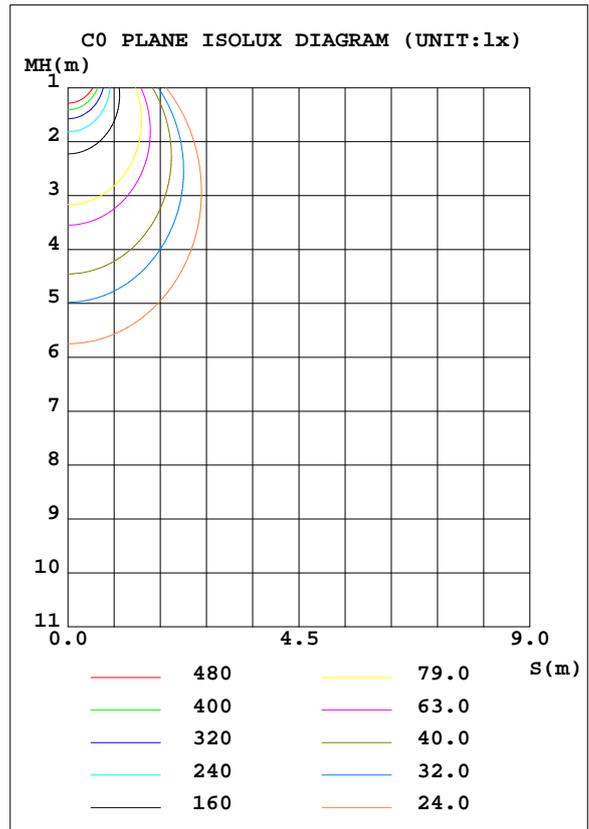
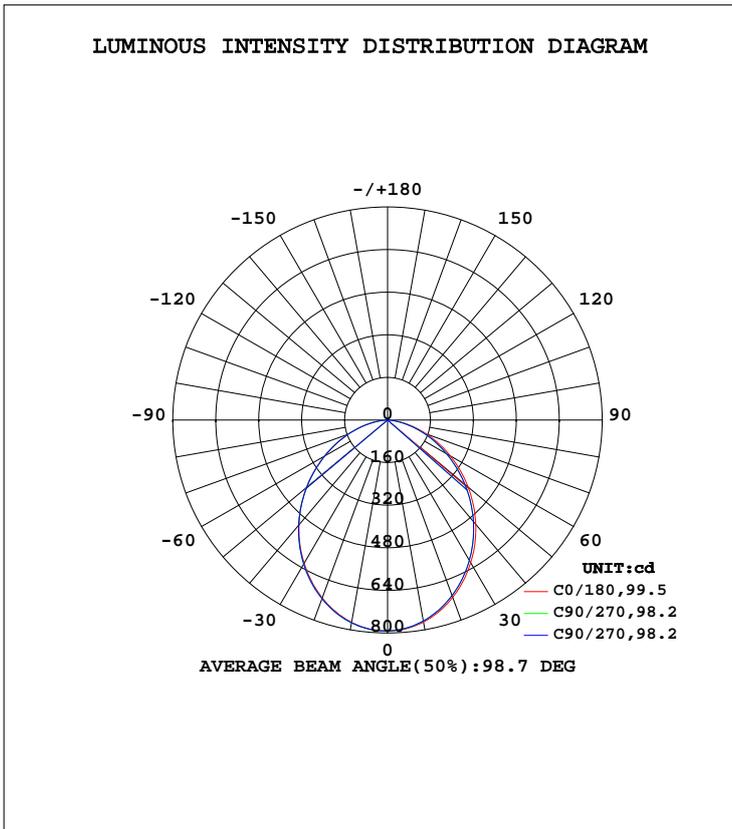


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.31V I:0.0682A P:15.398W PF:0.9804 Freq:49.99Hz UTHDi:0.23% ITHDi:20.10% KDisp:0.9996 Lamp Flux:1941.6lx1 lm		
NAME: DFL30W-B-CC 15W 4000K	TYPE: 15W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: UP-IES4-R&D
MFR.:	SUR.: 0.020532	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 126.10 lm/W			
MODEL	DFL30W-B-CC 15W	I _{max} (cd)	792.5	S/MH(C0/180)	1.18
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)	1.18
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	1941.6	η UP, DN(C0-180)	0.6,48.8
NOMINAL FLUX(lm)	1941.61	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.5,50.1
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:2025-1-22

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	770.5	766.3	771.7	773.5				0- 10	74.58	74.58	3.84,3.84
20	709.2	701.8	711.4	714.1				10- 20	209.6	284.2	14.6,14.6
30	619.6	609.2	621.6	625.0				20- 30	306.9	591.1	30.4,30.4
40	511.2	498.0	513.4	515.8				30- 40	353.8	944.9	48.7,48.7
50	391.8	376.7	394.9	393.9				40- 50	347.1	1292	66.5,66.5
60	270.5	254.2	272.5	270.3				50- 60	292.8	1585	81.6,81.6
70	155.2	142.3	157.6	155.9				60- 70	206.6	1792	92.3,92.3
80	53.51	46.91	56.37	57.30				70- 80	106.7	1898	97.8,97.8
90	0.8545	0.8906	0.7976	0.7983				80- 90	21.74	1920	98.9,98.9
100	1.485	1.530	1.431	1.333				90-100	1.216	1921	98.9,98.9
110	2.283	2.316	2.230	2.119				100-110	1.933	1923	99,99
120	3.232	3.244	3.149	3.015				110-120	2.665	1926	99.2,99.2
130	4.194	4.242	4.103	4.001				120-130	3.260	1929	99.4,99.4
140	5.135	5.199	5.049	4.928				130-140	3.559	1933	99.5,99.5
150	5.982	6.063	5.870	5.798				140-150	3.451	1936	99.7,99.7
160	6.665	6.752	6.570	6.548				150-160	2.903	1939	99.9,99.9
170	7.201	7.257	7.117	7.122				160-170	1.955	1941	100,100
180	7.421	7.409	7.433	7.403				170-180	0.6951	1942	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm		

Conical surface Flux(90deg): 1122.5 lm

%lum = 57.8%
%lamp = 57.8%

Conical surface Flux(120deg): 1584.9 lm

%lum = 81.6%
%lamp = 81.6%

0 - 45 DEG Zonal Flux:1122.5 %lum: 57.8%
0 - 60 DEG Zonal Flux:1584.9 %lum: 81.6%

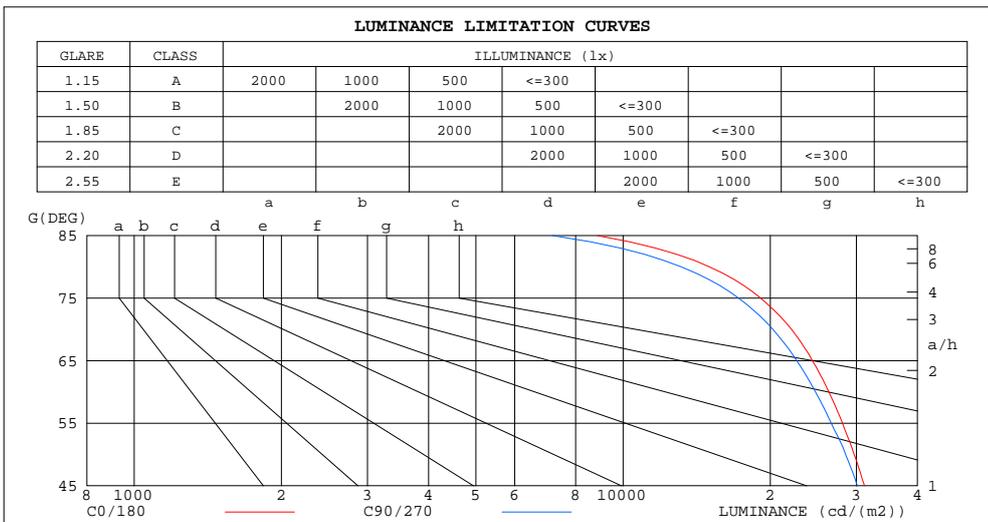
All measured values may vary less than 35 %
from the average measured value in the 0 to 130 deg. zone: 13.2%
All measured values in the 0 to 130 deg. zone
may vary less than 50% from the average value of itself: 19.1%

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:230.31V I:0.0682A P:15.398W PF:0.9804 Freq:49.99Hz UTHDi:0.23% ITHDi:20.10% KDisp:0.9996 Lamp Flux:1941.6lx1 lm		
NAME: DFL30W-B-CC 15W 4000K	TYPE: 15W	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	8853	7170
80	15015	13151
75	19119	17226
70	22107	20256
65	24383	22656
60	26356	24747
55	28113	26654
50	29698	28527
45	31178	30145

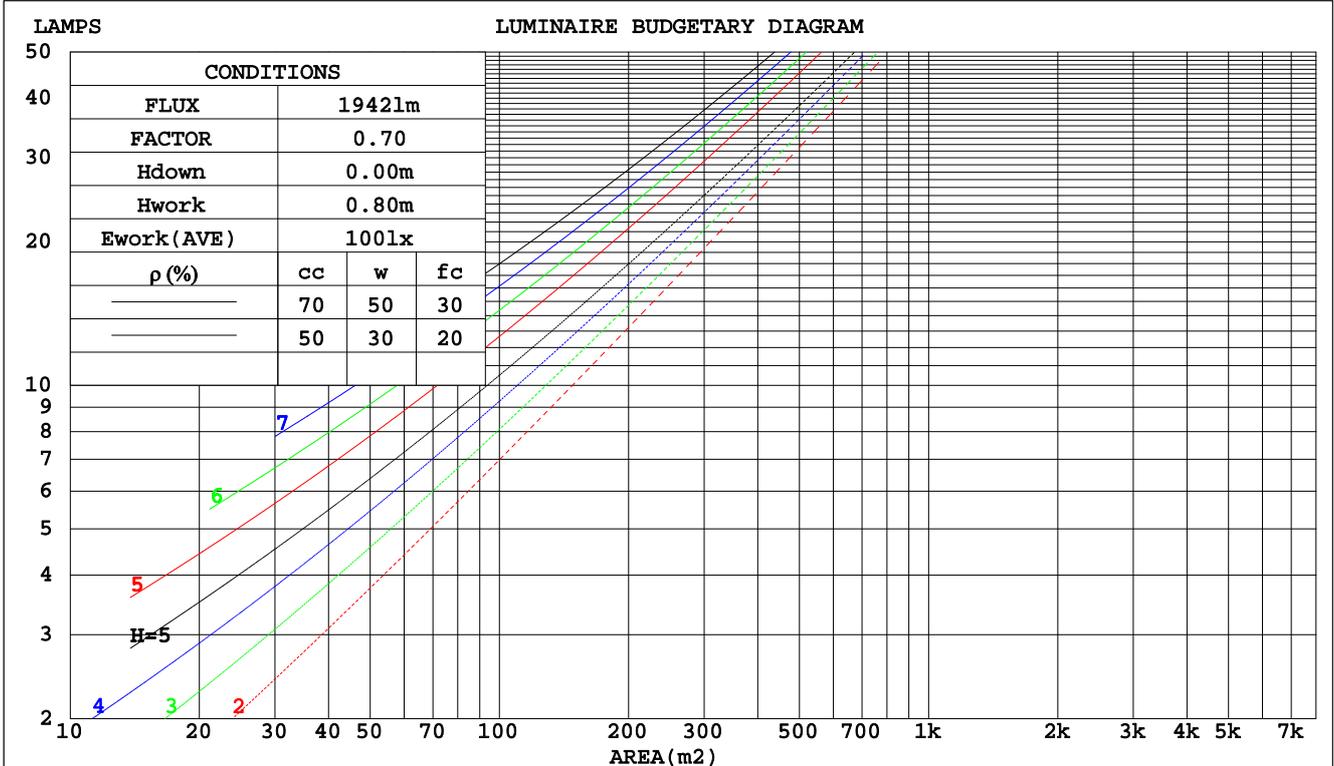
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-1-22

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:230.31V I:0.0682A P:15.398W PF:0.9804 Freq:49.99Hz UTHDi:0.23% ITHDi:20.10% KDisp:0.9996 Lamp Flux:1941.6lx1 lm		
NAME: DFL30W-B-CC 15W 4000K	TYPE: 15W	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	.41	.35	.48	.40	.35	.47	.40	.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:2025-1-22

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:230.31V I:0.0682A P:15.398W PF:0.9804 Freq:49.99Hz UTHDi:0.23% ITHDi:20.10% KDisp:0.9996 Lamp Flux:1941.6lx1 lm		
NAME: DFL30W-B-CC 15W 4000K	TYPE: 15W	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	.287	.163	.052	.280	.160	.051	.266	.153	.049	.254	.146	.047	.242	.140	.045	
2.0	.274	.150	.046	.268	.147	.045	.256	.142	.044	.244	.137	.043	.234	.132	.042	
3.0	.256	.136	.041	.250	.134	.040	.239	.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	.099	.029	.187	.097	.029	.180	.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:2025-1-22

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:230.31V I:0.0682A P:15.398W PF:0.9804 Freq:49.99Hz UTHDi:0.23% ITHDi:20.10% KDisp:0.9996 Lamp Flux:1941.6lx1 lm										
NAME: DFL30W-B-CC 15W 4000K					TYPE: 15W			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	24.2	25.6	24.5	25.8	26.1	24.0	25.4	24.2	25.6	25.8
3H	25.4	26.8	25.7	27.0	27.3	25.1	26.5	25.5	26.7	27.0
4H	25.9	27.1	26.2	27.4	27.7	25.6	26.8	25.9	27.1	27.4
6H	26.1	27.3	26.5	27.6	27.9	25.8	27.0	26.1	27.3	27.6
8H	26.2	27.3	26.5	27.6	27.9	25.8	27.0	26.2	27.3	27.6
12H	26.2	27.3	26.6	27.6	27.9	25.8	26.9	26.2	27.2	27.5
4H 2H	24.7	25.9	25.0	26.2	26.5	24.5	25.8	24.8	26.0	26.3
3H	26.1	27.2	26.5	27.5	27.8	25.9	27.0	26.2	27.3	27.6
4H	26.7	27.7	27.0	28.0	28.3	26.4	27.4	26.8	27.7	28.1
6H	27.0	27.9	27.4	28.3	28.7	26.7	27.6	27.1	27.9	28.3
8H	27.1	27.9	27.5	28.3	28.7	26.7	27.6	27.2	28.0	28.4
12H	27.1	27.9	27.6	28.3	28.7	26.8	27.5	27.2	27.9	28.3
8H 4H	26.8	27.6	27.2	28.0	28.4	26.6	27.4	27.0	27.8	28.2
6H	27.3	28.0	27.7	28.4	28.8	27.0	27.7	27.4	28.1	28.5
8H	27.4	28.0	27.9	28.5	28.9	27.1	27.7	27.6	28.1	28.6
12H	27.5	28.0	28.0	28.4	28.9	27.1	27.6	27.6	28.1	28.6
12H 4H	26.8	27.6	27.2	28.0	28.4	26.5	27.3	27.0	27.7	28.1
6H	27.3	27.9	27.8	28.3	28.8	27.0	27.6	27.5	28.0	28.5
8H	27.4	28.0	27.9	28.4	28.9	27.1	27.6	27.6	28.1	28.6
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
1.5H	+ 0.1 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.4				

CIE Pub.117, 1942 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 2.3)
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:230.31V I:0.0682A P:15.398W PF:0.9804 Freq:49.99Hz UTHDi:0.23% ITHDi:20.10% KDisp:0.9996 Lamp Flux:1941.6lx1 lm		
NAME: DFL30W-B-CC 15W 4000K	TYPE: 15W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: UP-IES4-R&D
MFR.:	SUR.: 0.020532	Shielding Angle:

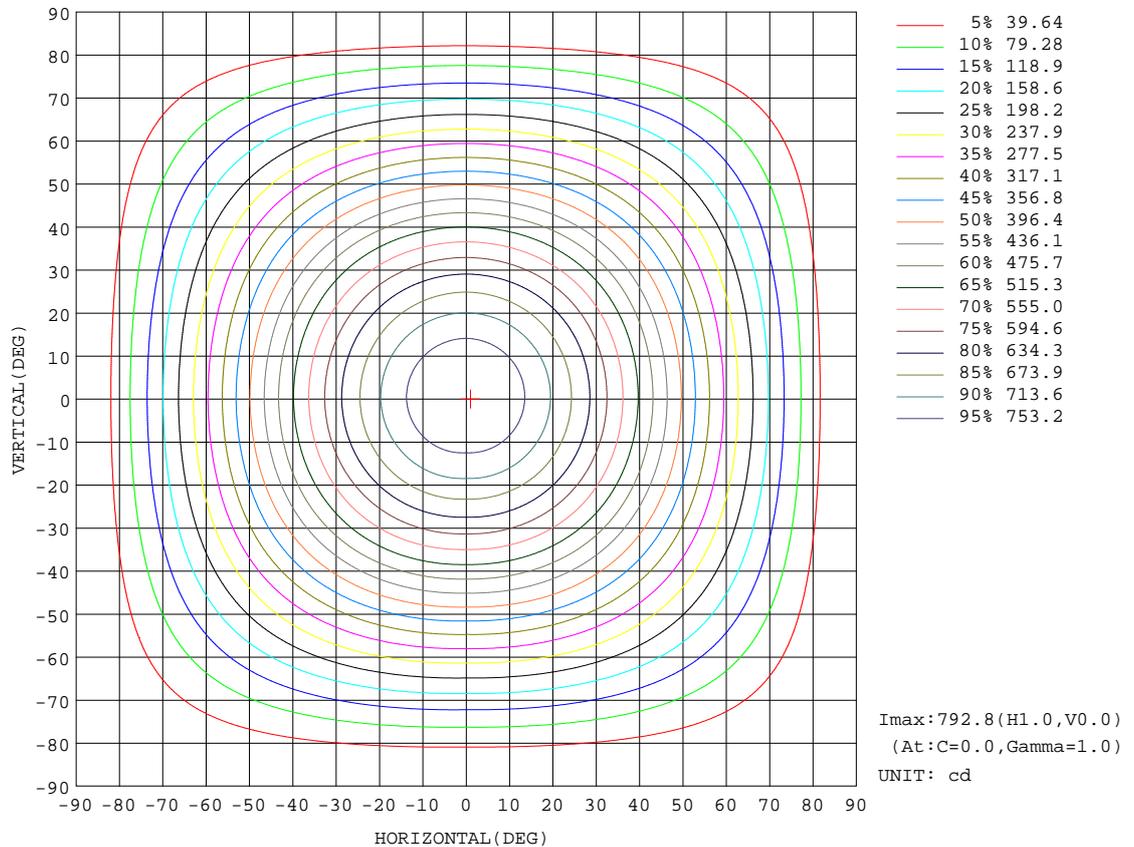
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	60	49	42	59	48	42	58	48	42	35
0.80	70	59	52	69	58	52	67	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:2025-1-22

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:230.31V I:0.0682A P:15.398W PF:0.9804 Freq:49.99Hz UTHDi:0.23% ITHDi:20.10% KDisp:0.9996 Lamp Flux:1941.6lx1 lm		
NAME: DFL30W-B-CC 15W 4000K	TYPE: 15W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: UP-IES4-R&D
MFR.:	SUR.: 0.020532	Shielding Angle:



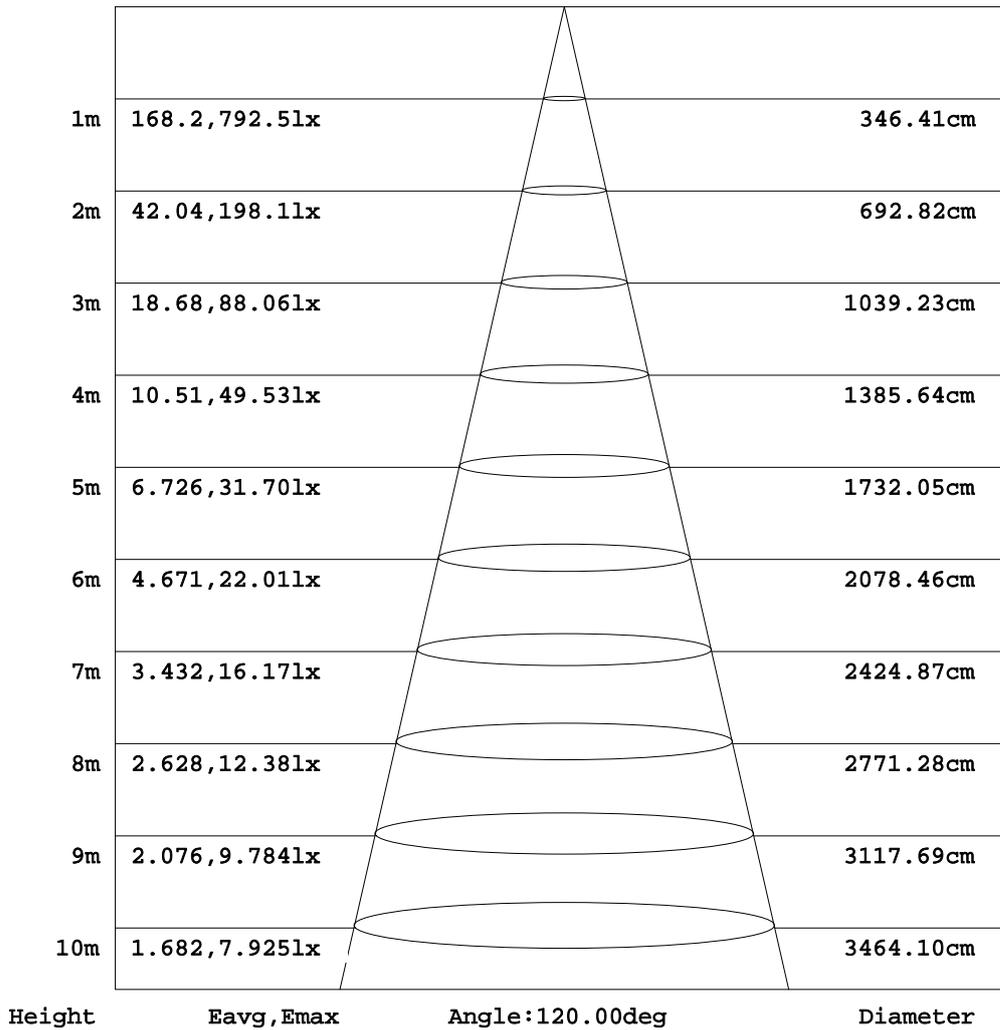
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-1-22

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:230.31V I:0.0682A P:15.398W PF:0.9804 Freq:49.99Hz UTHDi:0.23% ITHDi:20.10% KDisp:0.9996 Lamp Flux:1941.6lx1 lm		
NAME: DFL30W-B-CC 15W 4000K	TYPE: 15W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: UP-IES4-R&D
MFR.:	SUR.: 0.020532	Shielding Angle:

Flux out:1585 lm



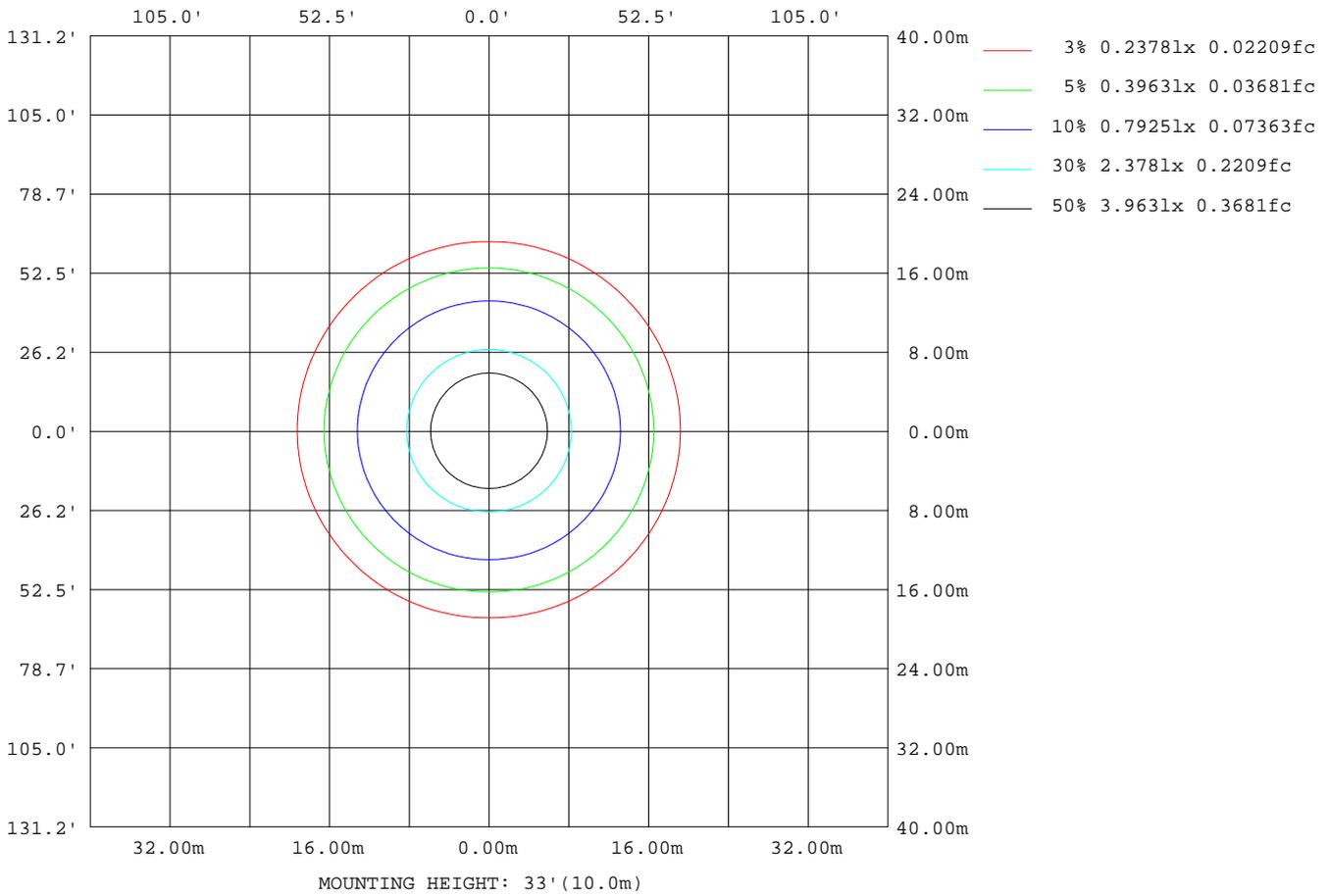
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:230.31V I:0.0682A P:15.398W PF:0.9804 Freq:49.99Hz UTHDi:0.23% ITHDi:20.10% KDisp:0.9996 Lamp Flux:1941.6lx1 lm		
NAME: DFL30W-B-CC 15W 4000K	TYPE: 15W	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:2025-1-22

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:230.31V I:0.0682A P:15.398W PF:0.9804 Freq:49.99Hz UTHDi:0.23% ITHDi:20.10% KDisp:0.9996 Lamp Flux:1941.6lx1 lm		
NAME: DFL30W-B-CC 15W 4000K	TYPE: 15W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: UP-IES4-R&D
MFR.:	SUR.: 0.020532	Shielding Angle:

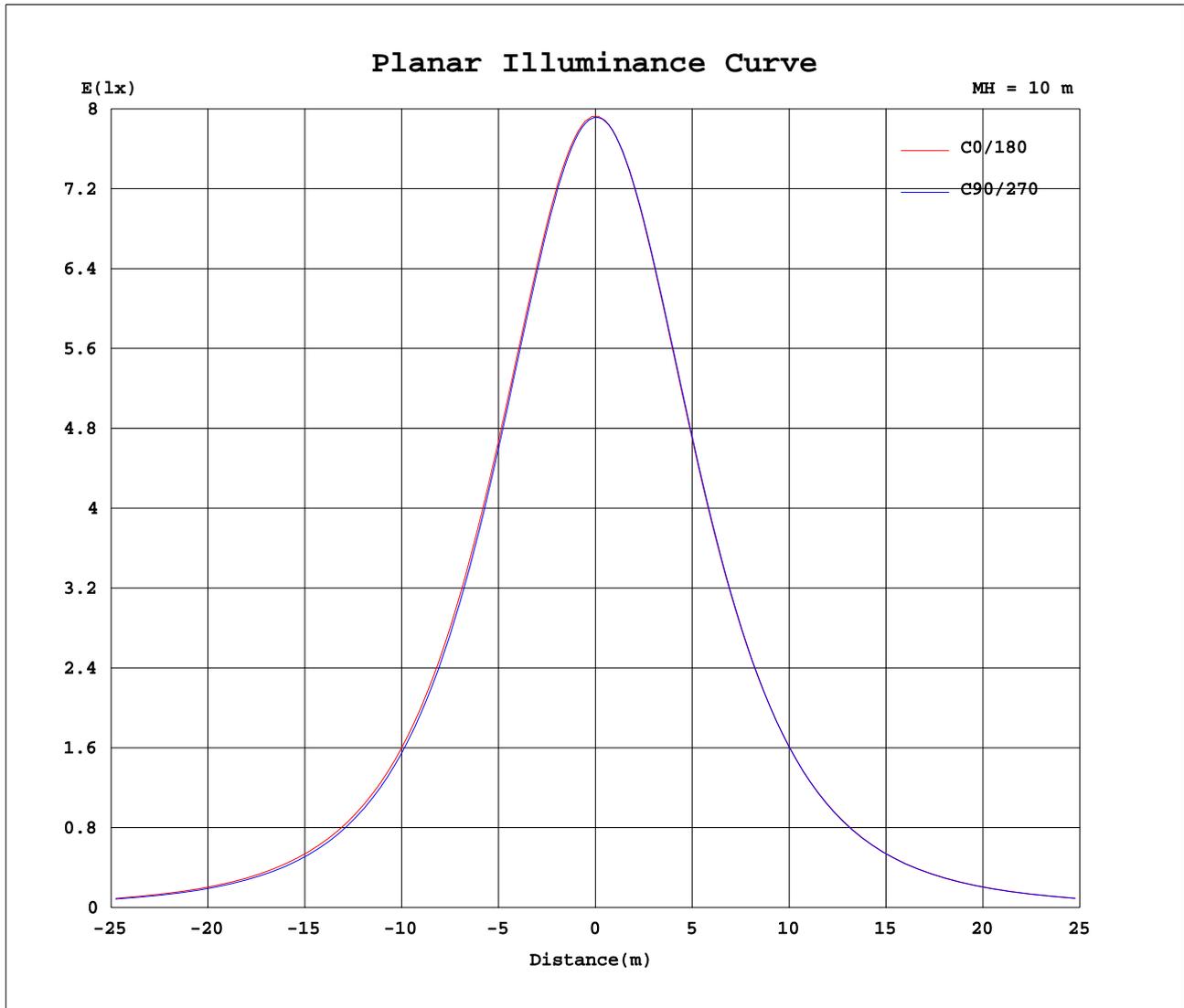
AvgL	cd/m2
L_0~180(65)av	24518
L_0~180(75)av	19390
L_0~180(85)av	9456
L_90~270(65)av	23533
L_90~270(75)av	18379
L_90~270(85)av	8942
L_45(65)av	23911
L_45(75)av	18776
L_45(85)av	9173

Standard: GB/T 29293-2012

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:

Planar Illuminance Curve



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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.31V I:0.0682A P:15.398W PF:0.9804 Freq:49.99Hz UTHDi:0.23% ITHDi:20.10% KDisp:0.9996 Lamp Flux:1941.6lx1 lm		
NAME: DFL30W-B-CC 15W 4000K	TYPE: 15W	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	792	792	792	792															
5	787	785	788	788															
10	770	766	772	773															
15	744	739	746	749															
20	709	702	711	714															
25	667	658	669	673															
30	620	609	622	625															
35	567	555	570	572															
40	511	498	513	516															
45	452	438	455	455															
50	392	377	395	394															
55	331	314	333	332															
60	270	254	272	270															
65	211	197	214	212															
70	155	142	158	156															
75	102	91.6	105	104															
80	53.5	46.9	56.4	57.3															
85	15.8	12.8	18.0	19.2															
90	0.85	0.89	0.80	0.80															
95	1.13	1.19	1.09	1.01															
100	1.48	1.53	1.43	1.33															
105	1.88	1.88	1.82	1.72															
110	2.28	2.32	2.23	2.12															
115	2.76	2.77	2.67	2.55															
120	3.23	3.24	3.15	3.02															
125	3.72	3.74	3.61	3.51															
130	4.19	4.24	4.10	4.00															
135	4.67	4.74	4.58	4.45															
140	5.13	5.20	5.05	4.93															
145	5.56	5.64	5.46	5.37															
150	5.98	6.06	5.87	5.80															
155	6.34	6.44	6.24	6.18															
160	6.67	6.75	6.57	6.55															
165	6.97	7.04	6.87	6.88															
170	7.20	7.26	7.12	7.12															
175	7.38	7.39	7.31	7.28															
180	7.42	7.41	7.43	7.40															

C Range: 0 - 360DEG
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