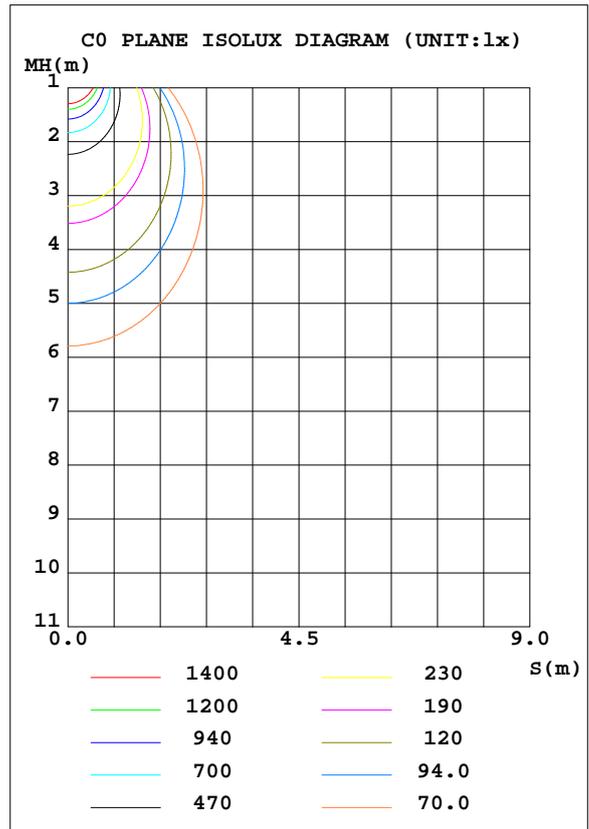
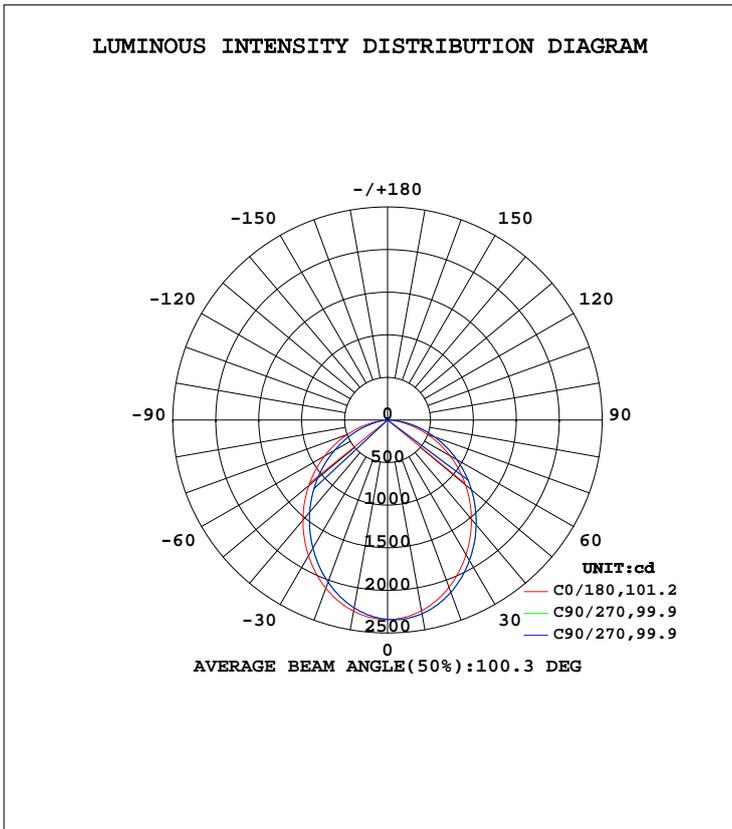


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.25V I:0.2261A P:51.113W PF:0.9820 Freq:49.99Hz UTHDi:0.17% ITHDi:18.79% KDisp:0.9989 Lamp Flux:5879.64x1 lm		
NAME: DFL50W-B-CC 50W 5700K	TYPE: 50W	WEIGHT:
SPEC.: 5700K	DIM.:	SERIAL No.: UP-IES4-R&D
MFR.:	SUR.: 0.020532	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 115.03 lm/W			
MODEL	DFL50W-B-CC 50W	I _{max} (cd)	2346	S/MH(C0/180)	1.18
NOMINAL POWER(W)	50	LOR(%)	100.0	S/MH(C90/270)	1.12
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	5879.6	η UP, DN(C0-180)	0.5, 51.6
NOMINAL FLUX(lm)	5879.64	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.6, 47.3
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	2273	2309	2279	2240				0- 10	220.3	220.3	3.75,3.75
20	2090	2152	2101	2024				10- 20	618.6	838.9	14.3,14.3
30	1827	1906	1840	1738				20- 30	906.0	1745	29.7,29.7
40	1520	1606	1534	1412				30- 40	1048	2793	47.5,47.5
50	1186	1276	1197	1062				40- 50	1042	3835	65.2,65.2
60	838.4	931.7	848.4	714.1				50- 60	900.6	4736	80.5,80.5
70	494.1	585.3	499.5	383.6				60- 70	654.0	5390	91.7,91.7
80	178.1	253.3	177.6	101.8				70- 80	347.3	5737	97.6,97.6
90	2.605	17.39	2.468	2.863				80- 90	77.12	5814	98.9,98.9
100	4.489	3.777	4.389	4.927				90-100	4.059	5819	99,99
110	6.992	6.082	6.816	7.447				100-110	5.889	5824	99.1,99.1
120	9.730	8.779	9.520	10.17				110-120	8.103	5833	99.2,99.2
130	12.57	11.63	12.31	13.02				120-130	9.804	5842	99.4,99.4
140	15.29	14.43	15.05	15.64				130-140	10.62	5853	99.5,99.5
150	17.75	17.16	17.50	18.01				140-150	10.26	5863	99.7,99.7
160	19.68	19.39	19.50	19.92				150-160	8.609	5872	99.9,99.9
170	21.24	21.09	21.05	21.25				160-170	5.775	5878	100,100
180	21.83	21.83	21.91	21.76				170-180	2.048	5880	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm		

Conical surface Flux(90deg): 3324.2 lm

%lum = 56.5%
%lamp = 56.5%

Conical surface Flux(120deg): 4736 lm

%lum = 80.5%
%lamp = 80.5%

0 - 45 DEG Zonal Flux:3324.2 %lum: 56.5%

0 - 60 DEG Zonal Flux:4736 %lum: 80.5%

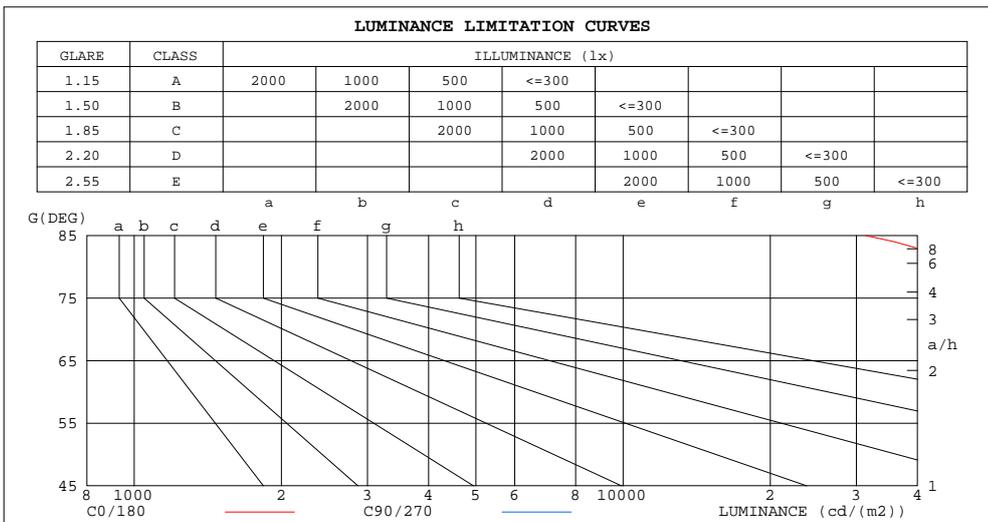
All measured values may vary less than 35 %
from the average measured value in the 0 to 130 deg. zone: 13.9%
All measured values in the 0 to 130 deg. zone
may vary less than 50% from the average value of itself: 20.0%

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:230.25V I:0.2261A P:51.113W PF:0.9820 Freq:49.99Hz UTHDi:0.17% ITHDi:18.79% KDisp:0.9989 Lamp Flux:5879.64x1 lm		
NAME: DFL50W-B-CC 50W 5700K	TYPE: 50W	WEIGHT:
SPEC.: 5700K	DIM.:	SERIAL No.: UP-IES4-R&D
MFR.:	SUR.: 0.020532	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	31359	62925
80	50084	70871
75	62162	77933
70	70533	83141
65	76917	87224
60	81873	90526
55	86249	93661
50	90053	96426
45	93552	99107

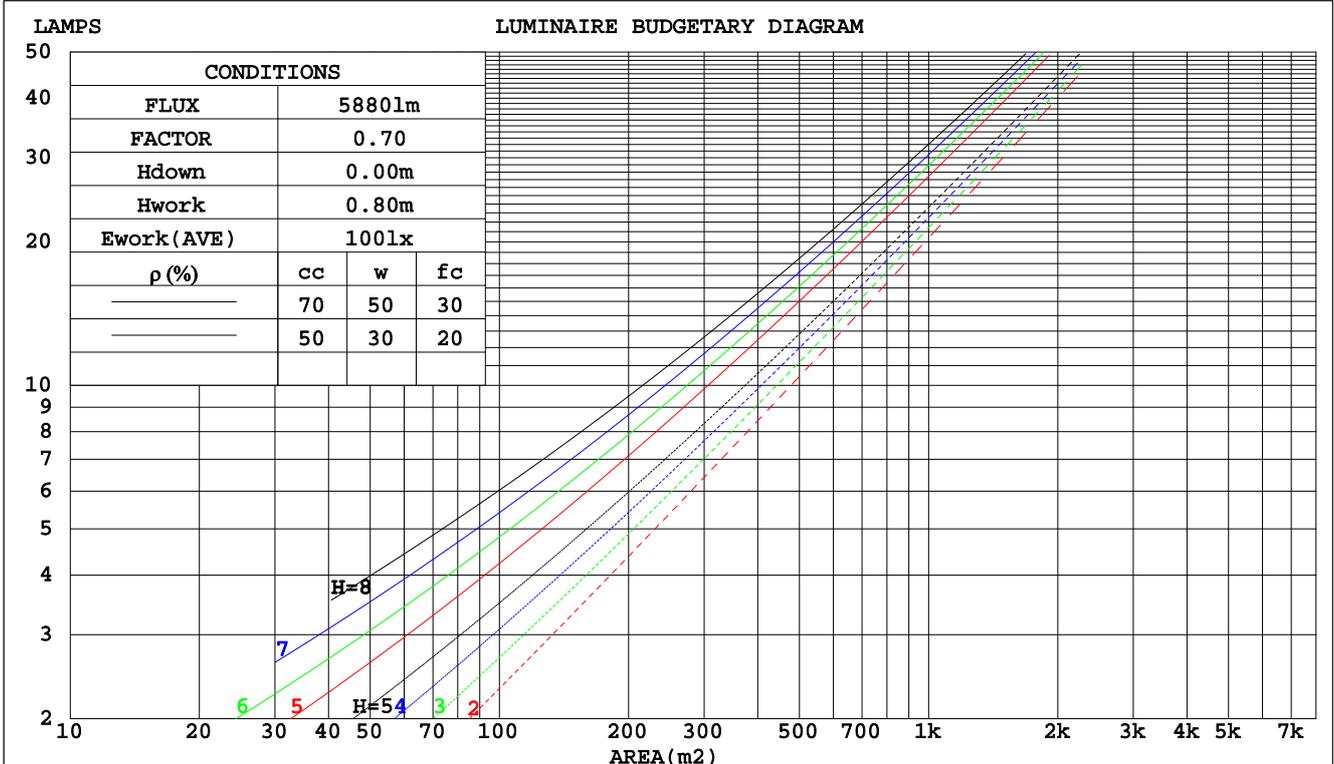
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2025-1-22

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:230.25V I:0.2261A P:51.113W PF:0.9820 Freq:49.99Hz UTHDi:0.17% ITHDi:18.79% KDisp:0.9989 Lamp Flux:5879.64x1 lm		
NAME: DFL50W-B-CC 50W 5700K	TYPE: 50W	WEIGHT:
SPEC.: 5700K	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	1.04	1.00	.97	1.02	.98	.95	.98	.95	.92	.94	.91	.89	.90	.88	.86	.84
2.0	.92	.85	.79	.90	.84	.78	.86	.81	.76	.82	.78	.75	.79	.76	.73	.71
3.0	.81	.73	.67	.79	.72	.66	.76	.70	.65	.73	.68	.63	.70	.66	.62	.60
4.0	.72	.63	.57	.70	.62	.56	.68	.61	.55	.65	.59	.55	.63	.58	.54	.51
5.0	.64	.56	.49	.63	.55	.49	.61	.54	.48	.59	.52	.48	.57	.51	.47	.45
6.0	.58	.49	.43	.57	.49	.43	.55	.48	.42	.53	.47	.42	.52	.46	.41	.39
7.0	.53	.44	.38	.52	.44	.38	.50	.43	.38	.49	.42	.37	.47	.41	.37	.35
8.0	.48	.40	.34	.48	.40	.34	.46	.39	.34	.45	.38	.33	.44	.38	.33	.31
9.0	.44	.36	.31	.44	.36	.31	.43	.35	.31	.41	.35	.30	.40	.34	.30	.28
10.0	.41	.33	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.37	.32	.27	.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:230.25V I:0.2261A P:51.113W PF:0.9820 Freq:49.99Hz UTHDi:0.17% ITHDi:18.79% KDisp:0.9989 Lamp Flux:5879.64x1 lm		
NAME: DFL50W-B-CC 50W 5700K	TYPE: 50W	WEIGHT:
SPEC.: 5700K	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	.293	.167	.053	.286	.163	.052	.272	.156	.050	.259	.150	.048	.248	.144	.046	
2.0	.279	.153	.047	.272	.150	.046	.260	.145	.045	.249	.140	.044	.238	.135	.043	
3.0	.259	.138	.041	.254	.136	.041	.243	.132	.040	.233	.128	.039	.224	.124	.038	
4.0	.241	.125	.037	.236	.123	.036	.226	.120	.036	.217	.117	.035	.209	.113	.035	
5.0	.223	.114	.033	.219	.112	.033	.210	.109	.032	.202	.107	.032	.195	.104	.031	
6.0	.208	.104	.030	.204	.103	.030	.196	.100	.029	.189	.098	.029	.182	.096	.028	
7.0	.194	.096	.027	.190	.095	.027	.183	.093	.027	.177	.091	.026	.171	.089	.026	
8.0	.181	.089	.025	.178	.088	.025	.172	.086	.025	.166	.084	.024	.161	.083	.024	
9.0	.170	.082	.023	.167	.082	.023	.162	.080	.023	.157	.078	.022	.152	.077	.022	
10.0	.160	.077	.021	.158	.076	.021	.153	.075	.021	.148	.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	.188	.165	.144	.161	.141	.124	.110	.097	.086	.063	.056	.050	.020	.018	.016	
2.0	.179	.141	.108	.153	.121	.094	.105	.084	.065	.061	.049	.038	.019	.016	.012	
3.0	.171	.123	.084	.147	.106	.073	.101	.074	.051	.058	.043	.030	.019	.014	.010	
4.0	.163	.109	.068	.140	.095	.059	.096	.066	.042	.056	.039	.025	.018	.013	.008	
5.0	.156	.099	.057	.134	.086	.050	.092	.060	.035	.053	.035	.021	.017	.011	.007	
6.0	.149	.091	.049	.128	.078	.042	.088	.055	.030	.051	.032	.018	.017	.011	.006	
7.0	.142	.084	.043	.122	.073	.037	.085	.051	.026	.049	.030	.016	.016	.010	.005	
8.0	.136	.078	.038	.117	.068	.033	.081	.047	.024	.047	.028	.014	.015	.009	.005	
9.0	.130	.073	.034	.112	.063	.030	.078	.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:230.25V I:0.2261A P:51.113W PF:0.9820 Freq:49.99Hz UTHDi:0.17% ITHDi:18.79% KDisp:0.9989 Lamp Flux:5879.64x1 lm										
NAME: DFL50W-B-CC 50W 5700K					TYPE: 50W			WEIGHT:		
SPEC.: 5700K					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	28.3	29.8	28.6	30.0	30.2	28.7	30.1	28.9	30.3	30.6
3H	29.7	31.0	30.0	31.3	31.5	30.2	31.5	30.5	31.8	32.0
4H	30.2	31.4	30.5	31.7	32.0	30.8	32.1	31.1	32.3	32.6
6H	30.5	31.7	30.8	31.9	32.2	31.2	32.4	31.6	32.7	33.0
8H	30.5	31.7	30.9	32.0	32.3	31.4	32.5	31.7	32.8	33.2
12H	30.5	31.6	30.9	32.0	32.3	31.5	32.6	31.8	32.9	33.2
4H 2H	28.9	30.2	29.3	30.5	30.8	29.2	30.5	29.5	30.7	31.0
3H	30.5	31.6	30.8	31.9	32.2	30.9	32.0	31.3	32.3	32.6
4H	31.1	32.1	31.5	32.4	32.8	31.6	32.6	32.0	33.0	33.3
6H	31.5	32.4	31.9	32.8	33.1	32.2	33.1	32.6	33.5	33.9
8H	31.6	32.4	32.0	32.8	33.2	32.4	33.2	32.8	33.6	34.0
12H	31.6	32.4	32.1	32.8	33.2	32.5	33.3	33.0	33.7	34.1
8H 4H	31.3	32.2	31.8	32.6	33.0	31.8	32.7	32.3	33.1	33.5
6H	31.9	32.6	32.3	33.0	33.5	32.6	33.2	33.0	33.7	34.1
8H	32.1	32.7	32.5	33.1	33.6	32.8	33.4	33.3	33.9	34.4
12H	32.1	32.7	32.6	33.1	33.6	33.0	33.6	33.5	34.0	34.5
12H 4H	31.4	32.1	31.8	32.5	33.0	31.8	32.6	32.3	33.0	33.4
6H	31.9	32.6	32.4	33.0	33.5	32.6	33.2	33.1	33.6	34.1
8H	32.2	32.7	32.6	33.1	33.6	32.9	33.4	33.4	33.9	34.4
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 5880 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 6.2)
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:230.25V I:0.2261A P:51.113W PF:0.9820 Freq:49.99Hz UTHDi:0.17% ITHDi:18.79% KDisp:0.9989 Lamp Flux:5879.64x1 lm		
NAME: DFL50W-B-CC 50W 5700K	TYPE: 50W	WEIGHT:
SPEC.: 5700K	DIM.:	SERIAL No.: UP-IES4-R&D
MFR.:	SUR.: 0.020532	Shielding Angle:

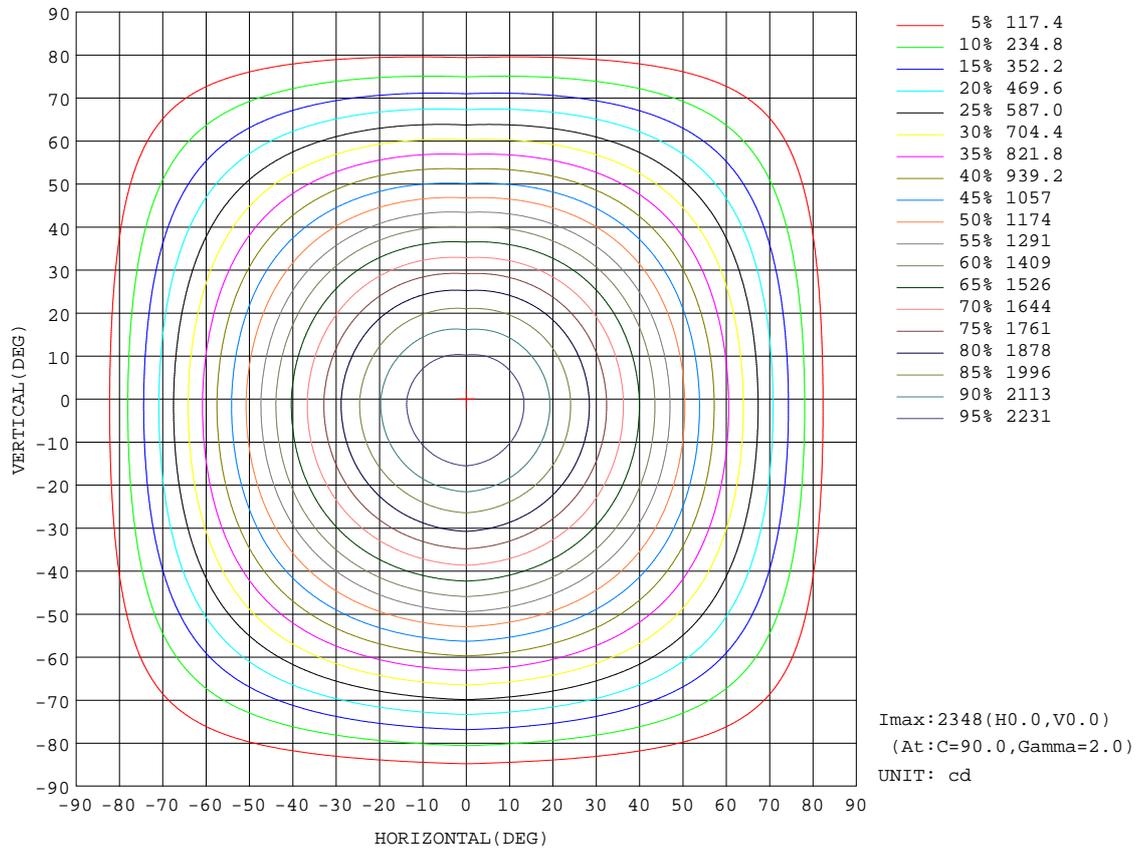
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	59	48	41	58	48	41	57	47	41	35
0.80	69	58	51	68	57	51	66	57	50	43
1.00	77	67	60	76	66	59	74	67	59	52
1.25	84	74	67	83	74	67	80	72	66	59
1.50	89	80	73	88	79	73	85	77	71	64
2.00	96	88	82	94	86	81	90	84	79	71
2.50	100	92	86	98	91	86	94	88	84	75
3.00	103	96	91	101	95	90	97	92	88	79
4.00	107	101	97	104	99	95	100	96	93	84
5.00	109	104	101	107	102	99	102	99	96	86
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:230.25V I:0.2261A P:51.113W PF:0.9820 Freq:49.99Hz UTHDi:0.17% ITHDi:18.79% KDisp:0.9989 Lamp Flux:5879.64x1 lm		
NAME: DFL50W-B-CC 50W 5700K	TYPE: 50W	WEIGHT:
SPEC.: 5700K	DIM.:	SERIAL No.: UP-IES4-R&D
MFR.:	SUR.: 0.020532	Shielding Angle:



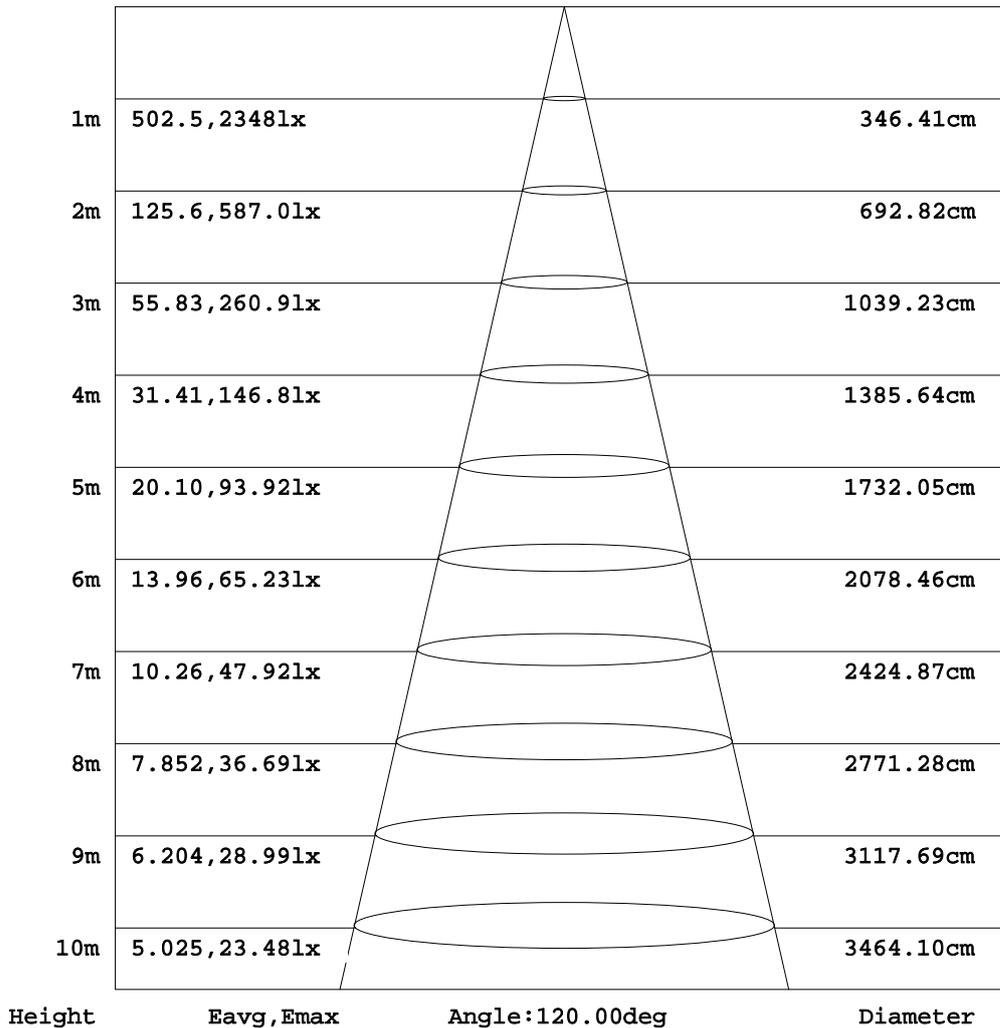
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2025-1-22

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:230.25V I:0.2261A P:51.113W PF:0.9820 Freq:49.99Hz UTHDi:0.17% ITHDi:18.79% KDisp:0.9989 Lamp Flux:5879.64x1 lm		
NAME: DFL50W-B-CC 50W 5700K	TYPE: 50W	WEIGHT:
SPEC.: 5700K	DIM.:	SERIAL No.: UP-IES4-R&D
MFR.:	SUR.: 0.020532	Shielding Angle:

Flux out:4736 lm



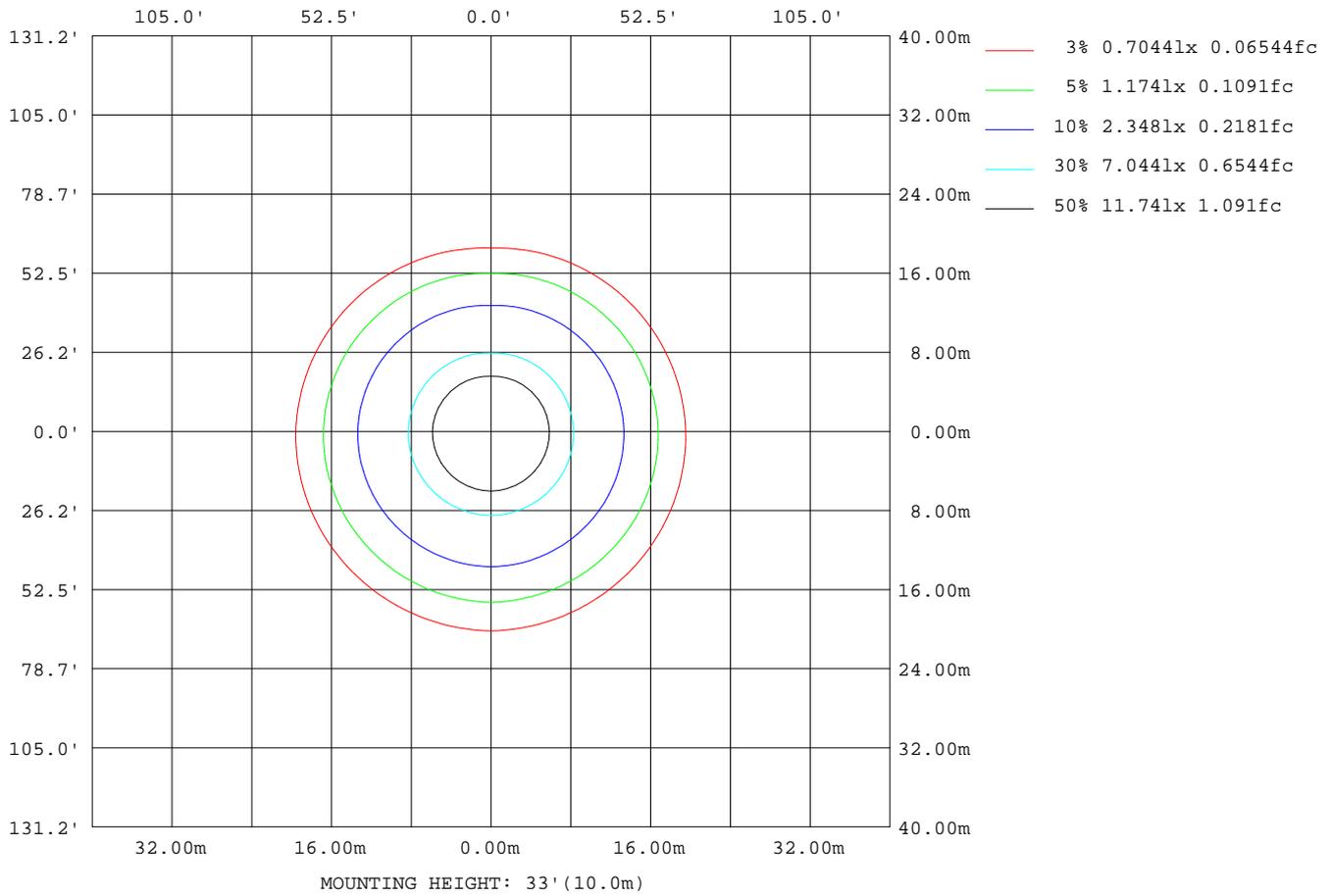
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:230.25V I:0.2261A P:51.113W PF:0.9820 Freq:49.99Hz UTHDi:0.17% ITHDi:18.79% KDisp:0.9989 Lamp Flux:5879.64x1 lm		
NAME: DFL50W-B-CC 50W 5700K	TYPE: 50W	WEIGHT:
SPEC.: 5700K	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:230.25V I:0.2261A P:51.113W PF:0.9820 Freq:49.99Hz UTHDi:0.17% ITHDi:18.79% KDisp:0.9989 Lamp Flux:5879.64x1 lm		
NAME: DFL50W-B-CC 50W 5700K	TYPE: 50W	WEIGHT:
SPEC.: 5700K	DIM.:	SERIAL No.: UP-IES4-R&D
MFR.:	SUR.: 0.020532	Shielding Angle:

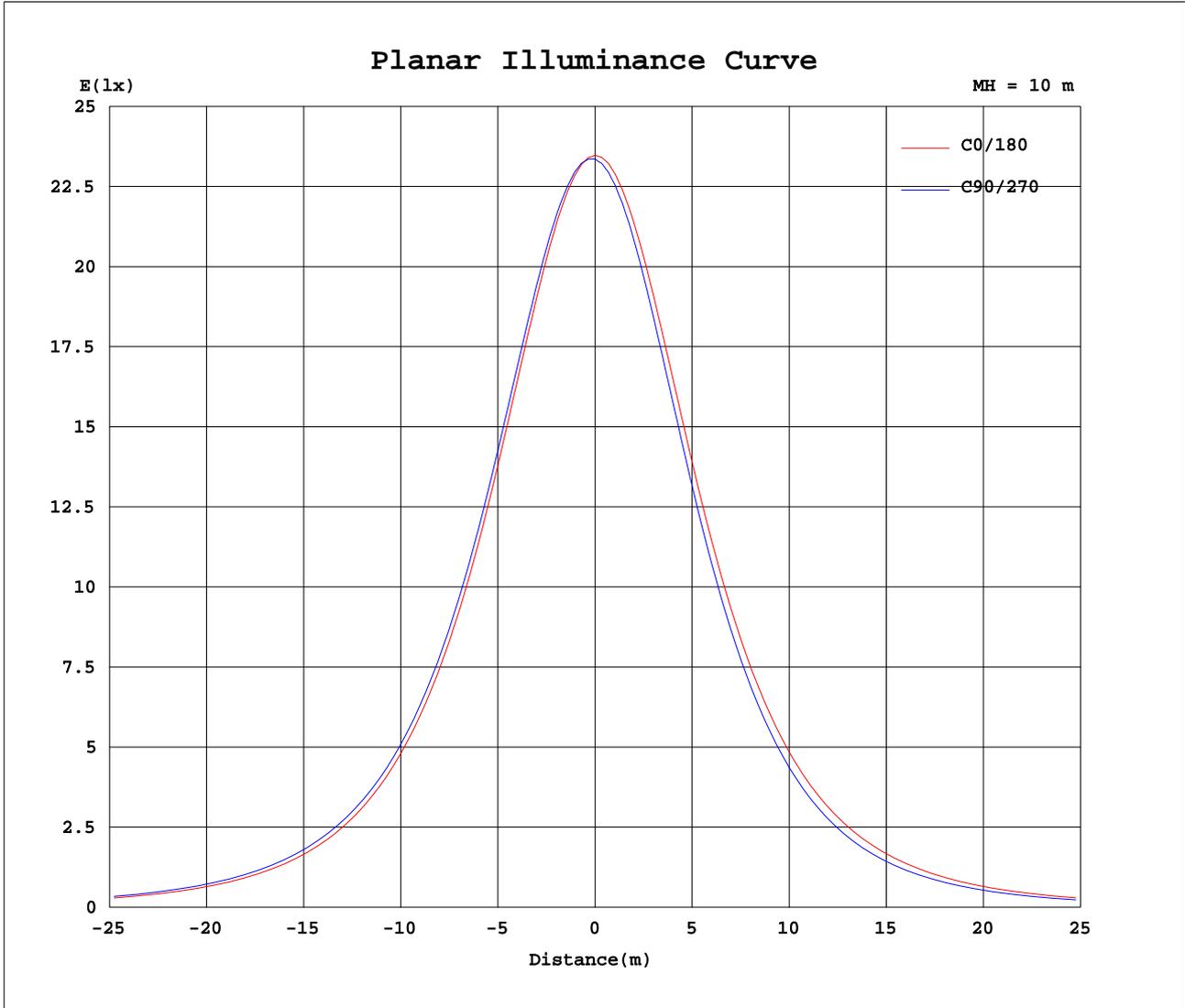
AvgL	cd/m2
L_0~180(65)av	77180
L_0~180(75)av	62213
L_0~180(85)av	31048
L_90~270(65)av	75198
L_90~270(75)av	60938
L_90~270(85)av	35614
L_45(65)av	75972
L_45(75)av	61430
L_45(85)av	33882

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:8.690m [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:230.25V I:0.2261A P:51.113W PF:0.9820 Freq:49.99Hz UTHDi:0.17% ITHDi:18.79% KDisp:0.9989 Lamp Flux:5879.64x1 lm		
NAME: DFL50W-B-CC 50W 5700K	TYPE: 50W	WEIGHT:
SPEC.: 5700K	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	2342	2342	2342	2342															
5	2322	2341	2325	2304															
10	2273	2309	2279	2240															
15	2196	2246	2204	2144															
20	2090	2152	2101	2024															
25	1967	2040	1980	1889															
30	1827	1906	1840	1738															
35	1676	1760	1690	1578															
40	1520	1606	1534	1412															
45	1355	1442	1367	1238															
50	1186	1276	1197	1062															
55	1013	1106	1025	888															
60	838	932	848	714															
65	666	759	674	546															
70	494	585	500	384															
75	330	415	332	232															
80	178	253	178	102															
85	56.0	113	55.1	14.6															
90	2.61	17.4	2.47	2.86															
95	3.43	2.83	3.34	3.84															
100	4.49	3.78	4.39	4.93															
105	5.67	4.86	5.55	6.14															
110	6.99	6.08	6.82	7.45															
115	8.33	7.42	8.16	8.81															
120	9.73	8.78	9.52	10.2															
125	11.2	10.2	10.9	11.6															
130	12.6	11.6	12.3	13.0															
135	14.0	13.0	13.7	14.3															
140	15.3	14.4	15.0	15.6															
145	16.5	15.8	16.3	16.9															
150	17.7	17.2	17.5	18.0															
155	18.8	18.4	18.6	19.1															
160	19.7	19.4	19.5	19.9															
165	20.6	20.3	20.4	20.7															
170	21.2	21.1	21.1	21.2															
175	21.7	21.6	21.6	21.6															
180	21.8	21.8	21.9	21.8															

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