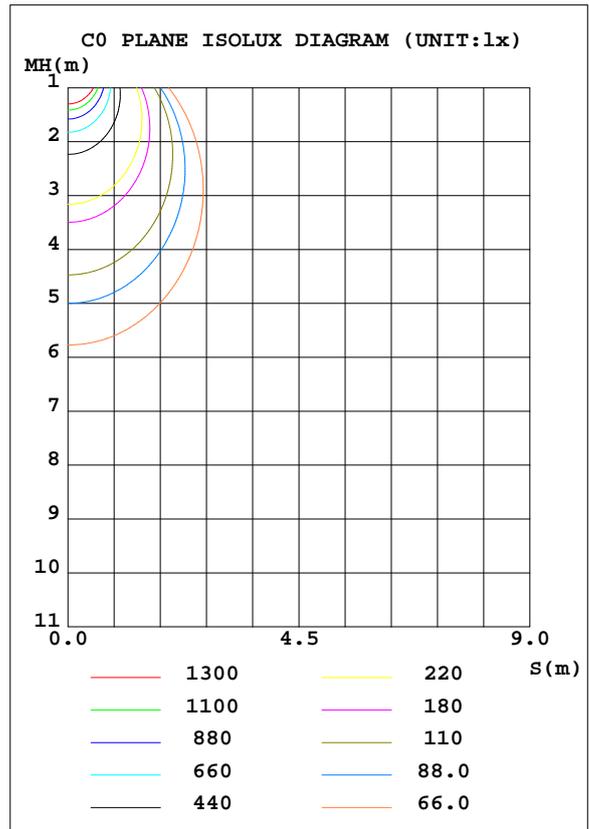
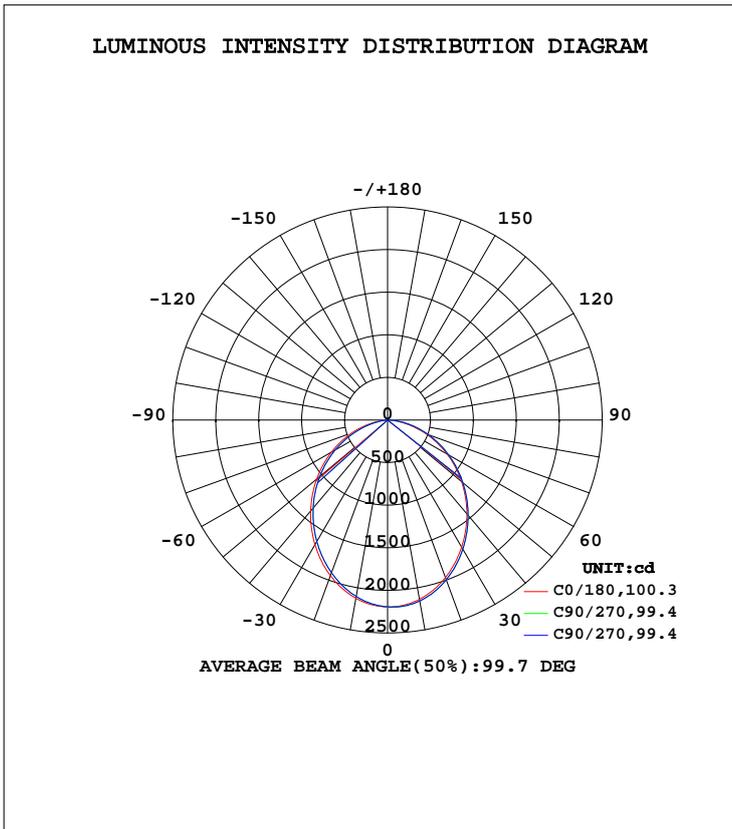


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.23V I:0.2268A P:51.274W PF:0.9822 Freq:49.99Hz UTHDi:0.22% ITHDi:18.53% KDisp:0.9989 Lamp Flux:5459.53x1 lm		
NAME: DFL50W-B-CC 50W 3000K	TYPE: 50W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: UP-IES4-R&D
MFR.:	SUR.: 0.020532	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 106.48 lm/W			
MODEL	DFL50W-B-CC 50W	I _{max} (cd)	2196	S/MH(C0/180)	1.16
NOMINAL POWER(W)	50	LOR(%)	100.0	S/MH(C90/270)	1.13
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	5459.5	η UP, DN(C0-180)	0.5, 51.4
NOMINAL FLUX(lm)	5459.53	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.6, 47.5
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	2137	2157	2126	2103				0- 10	206.4	206.4	3.78,3.78
20	1970	1996	1947	1910				10- 20	578.5	784.9	14.4,14.4
30	1725	1751	1691	1648				20- 30	845.3	1630	29.9,29.9
40	1437	1459	1394	1348				30- 40	975.8	2606	47.7,47.7
50	1125	1145	1078	1030				40- 50	967.2	3573	65.4,65.4
60	802.1	822.0	756.3	705.1				50- 60	834.2	4407	80.7,80.7
70	475.0	507.0	441.1	383.6				60- 70	603.7	5011	91.8,91.8
80	170.9	217.0	156.1	103.9				70- 80	318.4	5329	97.6,97.6
90	2.383	15.05	2.351	2.534				80- 90	69.46	5399	98.9,98.9
100	4.044	3.669	4.181	4.367				90-100	3.727	5403	99,99
110	6.306	5.880	6.465	6.686				100-110	5.460	5408	99.1,99.1
120	8.858	8.414	9.015	9.210				110-120	7.527	5416	99.2,99.2
130	11.52	11.08	11.64	11.87				120-130	9.119	5425	99.4,99.4
140	14.08	13.69	14.20	14.36				130-140	9.895	5435	99.5,99.5
150	16.44	16.20	16.45	16.62				140-150	9.575	5444	99.7,99.7
160	18.30	18.26	18.32	18.48				150-160	8.041	5452	99.9,99.9
170	19.81	19.78	19.73	19.77				160-170	5.399	5458	100,100
180	20.44	20.40	20.48	20.35				170-180	1.915	5460	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm		

Conical surface Flux(90deg): 3098.9 lm

%lum = 56.8%
%lamp = 56.8%

Conical surface Flux(120deg): 4407.4 lm

%lum = 80.7%
%lamp = 80.7%

0 - 45 DEG Zonal Flux:3098.9 %lum: 56.8%
0 - 60 DEG Zonal Flux:4407.4 %lum: 80.7%

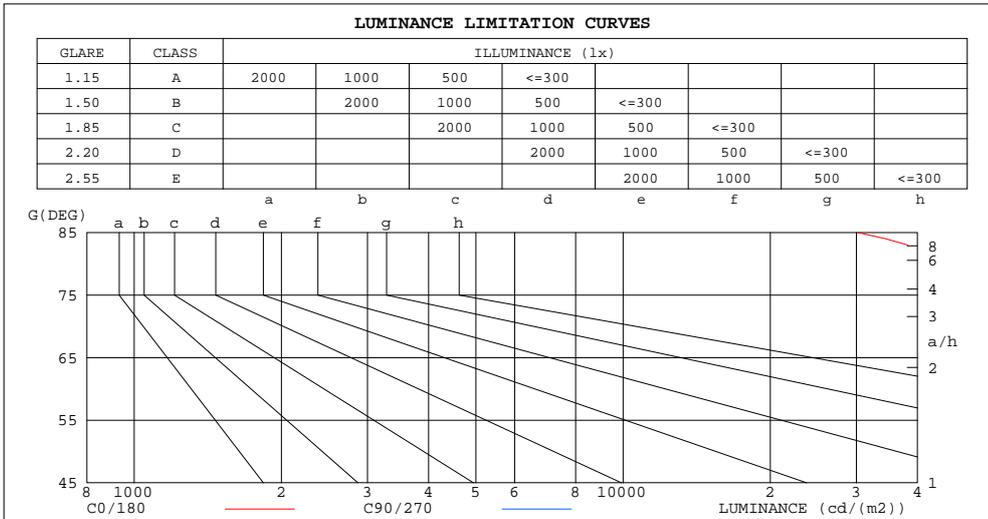
All measured values may vary less than 35 %
from the average measured value in the 0 to 130 deg. zone: 13.4%
All measured values in the 0 to 130 deg. zone
may vary less than 50% from the average value of itself: 19.5%

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

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:230.23V I:0.2268A P:51.274W PF:0.9822 Freq:49.99Hz UTHDi:0.22% ITHDi:18.53% KDisp:0.9989 Lamp Flux:5459.53x1 lm		
NAME: DFL50W-B-CC 50W 3000K	TYPE: 50W	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	30229	53793
80	48010	60778
75	59762	67168
70	67741	72096
65	73590	76237
60	78250	79957
55	82037	83348
50	85403	86642
45	88568	89636

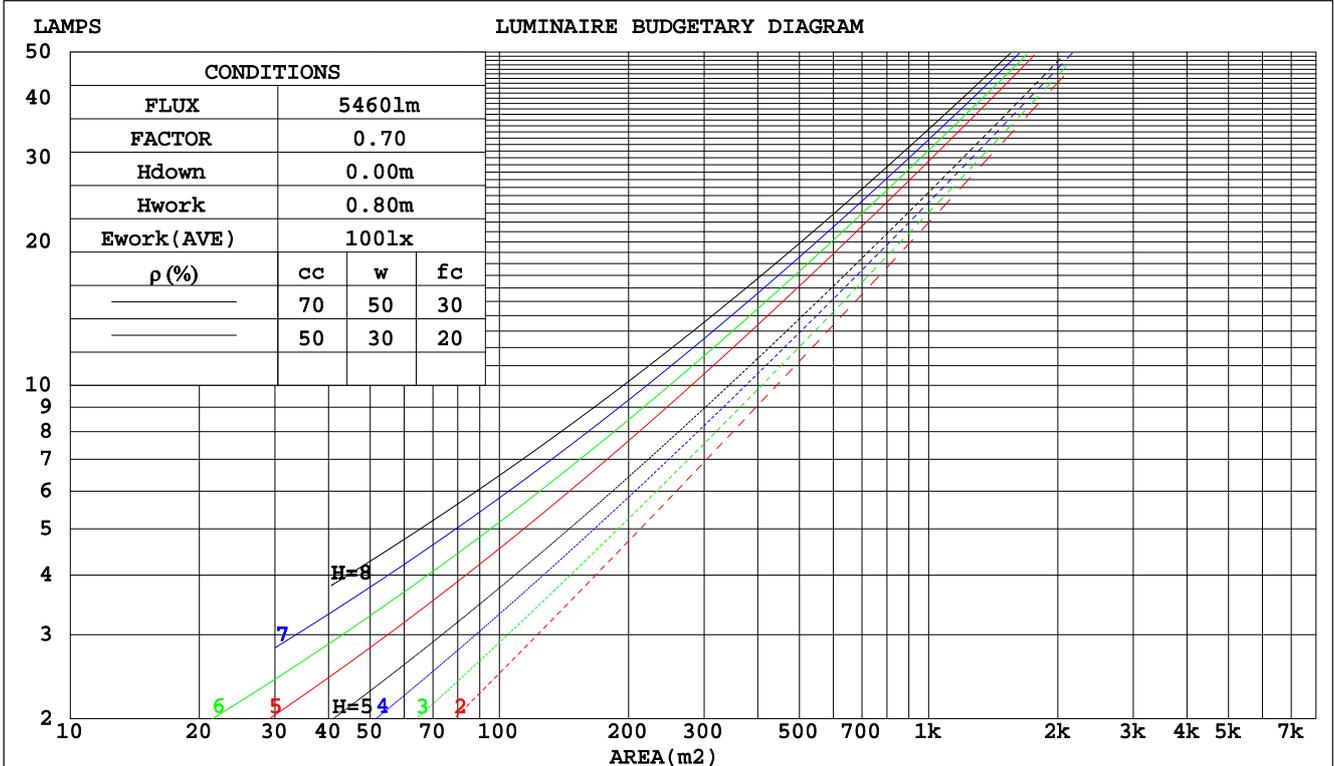
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-1-22

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:230.23V I:0.2268A P:51.274W PF:0.9822 Freq:49.99Hz UTHDi:0.22% ITHDi:18.53% KDisp:0.9989 Lamp Flux:5459.53x1 lm		
NAME: DFL50W-B-CC 50W 3000K	TYPE: 50W	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	1.00	.97	1.02	.98	.95	.98	.95	.92	.94	.91	.89	.90	.88	.86	.84
2.0	.92	.85	.80	.90	.84	.79	.86	.81	.77	.83	.78	.75	.79	.76	.73	.71
3.0	.81	.73	.67	.79	.72	.66	.76	.70	.65	.73	.68	.63	.71	.66	.62	.60
4.0	.72	.63	.57	.71	.63	.56	.68	.61	.56	.65	.59	.55	.63	.58	.54	.52
5.0	.64	.56	.49	.63	.55	.49	.61	.54	.48	.59	.53	.48	.57	.51	.47	.45
6.0	.58	.49	.43	.57	.49	.43	.55	.48	.42	.54	.47	.42	.52	.46	.42	.40
7.0	.53	.44	.38	.52	.44	.38	.50	.43	.38	.49	.42	.37	.47	.42	.37	.35
8.0	.48	.40	.34	.48	.40	.34	.46	.39	.34	.45	.38	.34	.44	.38	.33	.31
9.0	.44	.36	.31	.44	.36	.31	.43	.36	.31	.41	.35	.30	.40	.35	.30	.28
10.0	.41	.33	.28	.41	.33	.28	.39	.33	.28	.38	.32	.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:230.23V I:0.2268A P:51.274W PF:0.9822 Freq:49.99Hz UTHDi:0.22% ITHDi:18.53% KDisp:0.9989 Lamp Flux:5459.53x1 lm		
NAME: DFL50W-B-CC 50W 3000K	TYPE: 50W	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	.292	.166	.053	.285	.162	.052	.271	.155	.050	.258	.149	.048	.247	.143	.046	
2.0	.278	.152	.047	.271	.149	.046	.259	.144	.045	.248	.139	.044	.238	.134	.042	
3.0	.259	.138	.041	.253	.136	.041	.242	.131	.040	.232	.127	.039	.223	.124	.038	
4.0	.240	.125	.037	.235	.123	.036	.225	.120	.036	.217	.116	.035	.208	.113	.034	
5.0	.223	.114	.033	.218	.112	.033	.210	.109	.032	.202	.106	.032	.194	.104	.031	
6.0	.207	.104	.030	.203	.103	.030	.196	.100	.029	.189	.098	.029	.182	.096	.028	
7.0	.193	.096	.027	.190	.095	.027	.183	.093	.027	.177	.091	.026	.171	.089	.026	
8.0	.181	.088	.025	.178	.088	.025	.172	.086	.024	.166	.084	.024	.161	.082	.024	
9.0	.170	.082	.023	.167	.081	.023	.162	.080	.023	.156	.078	.022	.151	.077	.022	
10.0	.160	.077	.021	.157	.076	.021	.152	.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	.085	.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	.084	.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	.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:230.23V I:0.2268A P:51.274W PF:0.9822 Freq:49.99Hz UTHDi:0.22% ITHDi:18.53% KDisp:0.9989 Lamp Flux:5459.53x1 lm										
NAME: DFL50W-B-CC 50W 3000K					TYPE: 50W			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	28.1	29.6	28.4	29.8	30.0	28.2	29.7	28.5	29.9	30.1
3H	29.5	30.8	29.8	31.1	31.3	29.6	31.0	30.0	31.2	31.5
4H	30.0	31.3	30.3	31.5	31.8	30.2	31.5	30.6	31.8	32.0
6H	30.3	31.5	30.7	31.8	32.1	30.6	31.8	31.0	32.1	32.4
8H	30.4	31.5	30.7	31.8	32.1	30.8	31.9	31.1	32.2	32.5
12H	30.4	31.5	30.7	31.8	32.1	30.9	32.0	31.2	32.3	32.6
4H 2H	28.7	30.0	29.0	30.2	30.5	28.8	30.0	29.1	30.3	30.6
3H	30.3	31.4	30.6	31.7	32.0	30.4	31.5	30.8	31.8	32.1
4H	30.9	31.9	31.3	32.2	32.6	31.1	32.1	31.5	32.4	32.8
6H	31.3	32.2	31.7	32.6	33.0	31.6	32.5	32.0	32.9	33.3
8H	31.4	32.2	31.8	32.6	33.0	31.8	32.7	32.2	33.0	33.4
12H	31.4	32.2	31.9	32.6	33.0	31.9	32.7	32.4	33.1	33.5
8H 4H	31.1	32.0	31.6	32.3	32.8	31.3	32.1	31.7	32.5	32.9
6H	31.7	32.4	32.1	32.8	33.2	32.0	32.7	32.4	33.1	33.6
8H	31.8	32.5	32.3	32.9	33.4	32.3	32.9	32.7	33.3	33.8
12H	31.9	32.5	32.4	32.9	33.4	32.5	33.0	32.9	33.4	33.9
12H 4H	31.1	31.9	31.6	32.3	32.7	31.3	32.1	31.8	32.5	32.9
6H	31.7	32.3	32.2	32.8	33.3	32.0	32.6	32.5	33.1	33.6
8H	31.9	32.4	32.4	32.9	33.4	32.3	32.8	32.8	33.3	33.8
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 / - 0.2				

CIE Pub.117, 5460 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 5.9)
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:230.23V I:0.2268A P:51.274W PF:0.9822 Freq:49.99Hz UTHDi:0.22% ITHDi:18.53% KDisp:0.9989 Lamp Flux:5459.53x1 lm		
NAME: DFL50W-B-CC 50W 3000K	TYPE: 50W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: UP-IES4-R&D
MFR.:	SUR.: 0.020532	Shielding Angle:

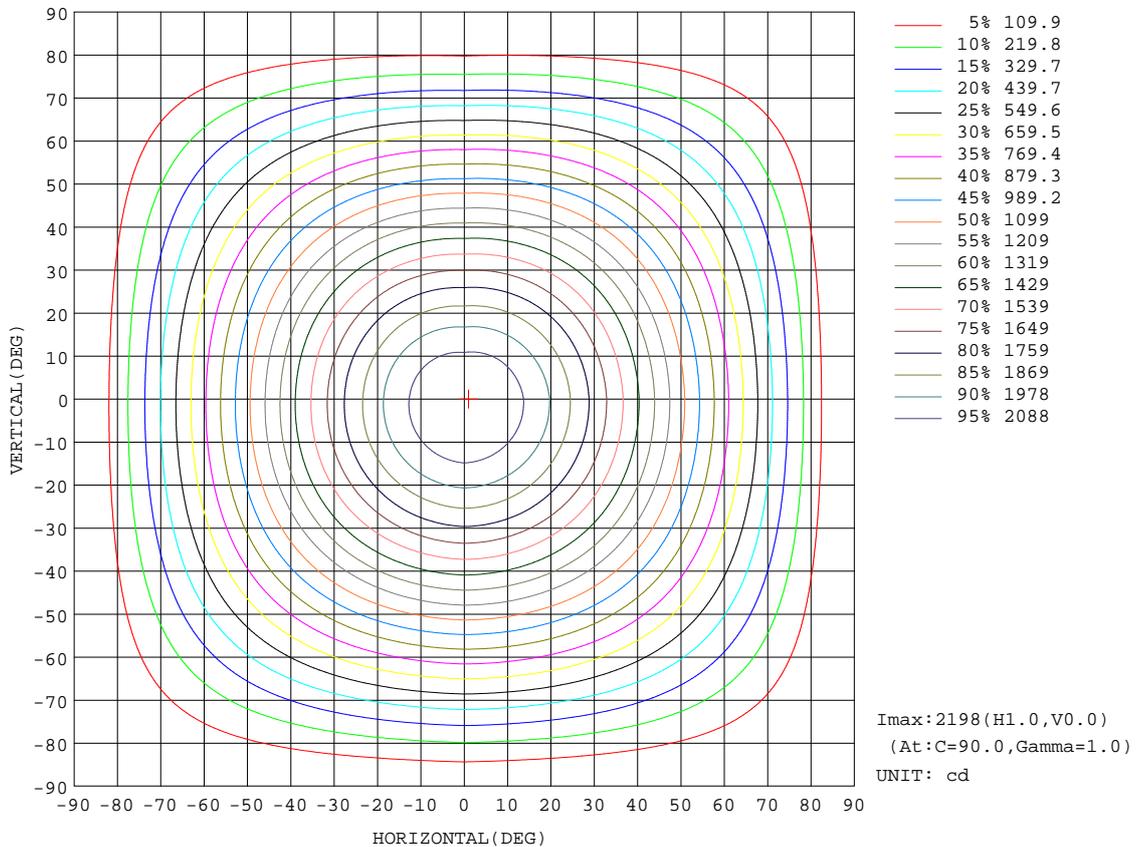
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	59	48	41	59	48	41	57	47	41	35
0.80	69	58	51	68	58	51	66	57	50	44
1.00	78	67	60	76	66	60	74	67	59	52
1.25	85	74	68	83	74	67	80	72	66	59
1.50	89	80	73	88	79	73	85	77	72	64
2.00	96	88	82	94	87	81	91	84	79	71
2.50	100	92	87	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	100	96	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:230.23V I:0.2268A P:51.274W PF:0.9822 Freq:49.99Hz UTHDi:0.22% ITHDi:18.53% KDisp:0.9989 Lamp Flux:5459.53x1 lm		
NAME: DFL50W-B-CC 50W 3000K	TYPE: 50W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: UP-IES4-R&D
MFR.:	SUR.: 0.020532	Shielding Angle:



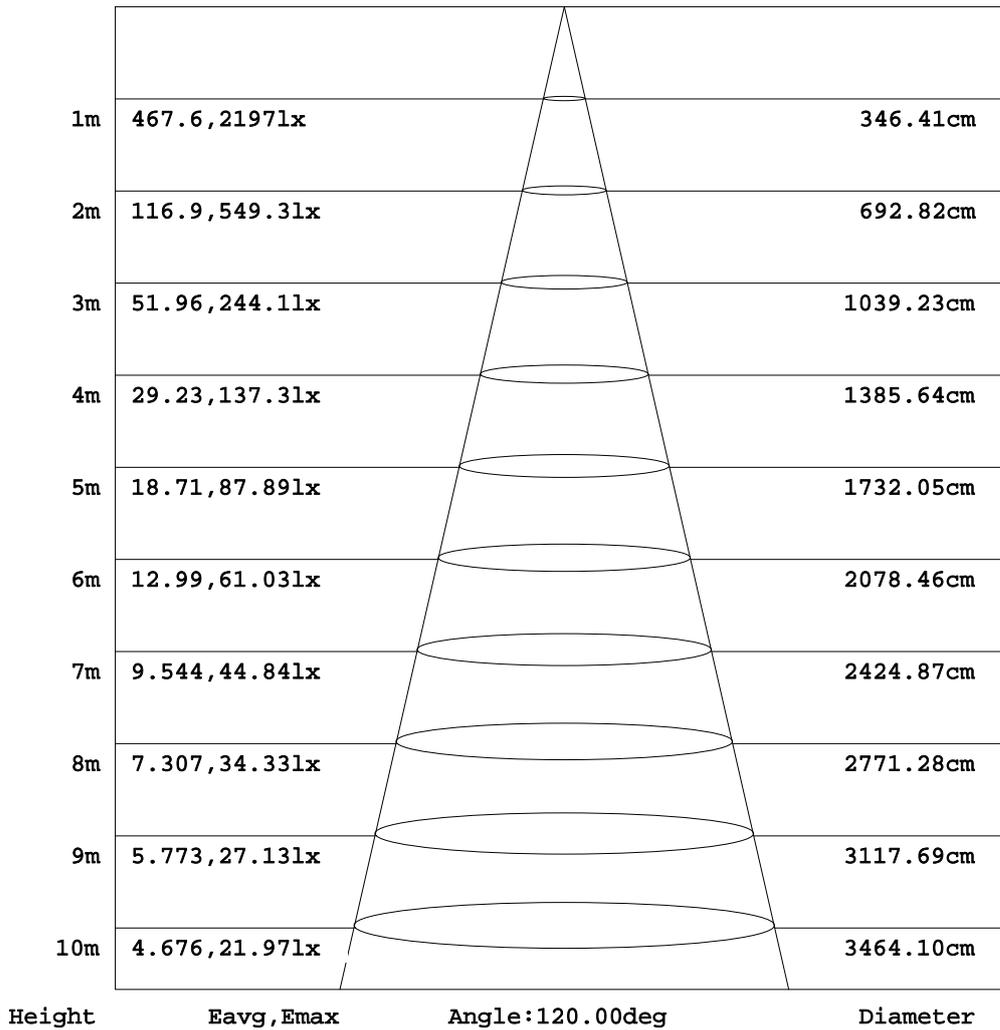
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-1-22

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:230.23V I:0.2268A P:51.274W PF:0.9822 Freq:49.99Hz UTHDi:0.22% ITHDi:18.53% KDisp:0.9989 Lamp Flux:5459.53x1 lm		
NAME: DFL50W-B-CC 50W 3000K	TYPE: 50W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: UP-IES4-R&D
MFR.:	SUR.: 0.020532	Shielding Angle:

Flux out:4407 lm



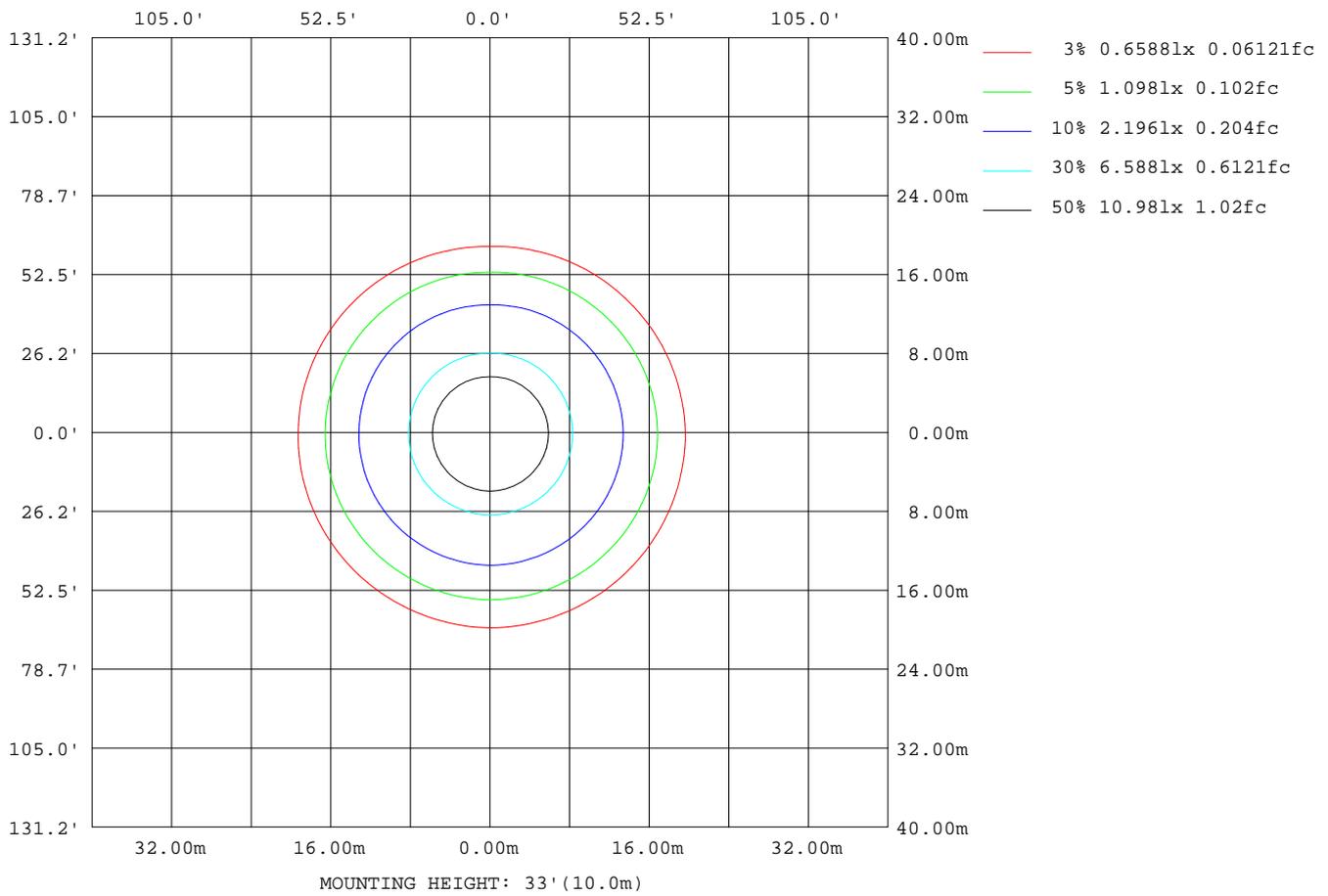
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:230.23V I:0.2268A P:51.274W PF:0.9822 Freq:49.99Hz UTHDi:0.22% ITHDi:18.53% KDisp:0.9989 Lamp Flux:5459.53x1 lm		
NAME: DFL50W-B-CC 50W 3000K	TYPE: 50W	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:230.23V I:0.2268A P:51.274W PF:0.9822 Freq:49.99Hz UTHDi:0.22% ITHDi:18.53% KDisp:0.9989 Lamp Flux:5459.53x1 lm		
NAME: DFL50W-B-CC 50W 3000K	TYPE: 50W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: UP-IES4-R&D
MFR.:	SUR.: 0.020532	Shielding Angle:

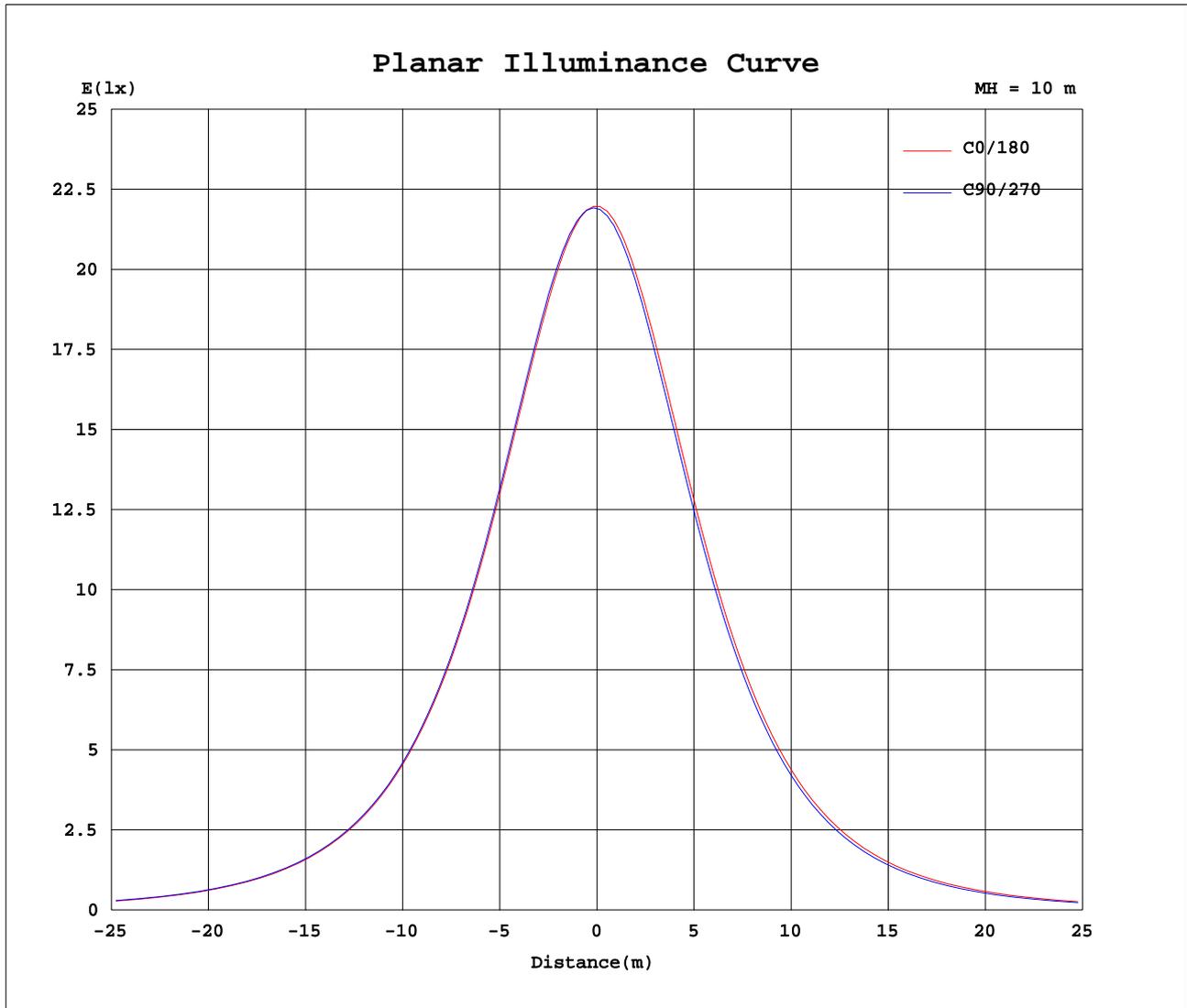
AvgL	cd/m2
L_0~180(65)av	71120
L_0~180(75)av	57241
L_0~180(85)av	28643
L_90~270(65)av	69409
L_90~270(75)av	55576
L_90~270(85)av	30946
L_45(65)av	69904
L_45(75)av	56049
L_45(85)av	29985

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:230.23V I:0.2268A P:51.274W PF:0.9822 Freq:49.99Hz UTHDi:0.22% ITHDi:18.53% KDisp:0.9989 Lamp Flux:5459.53x1 lm		
NAME: DFL50W-B-CC 50W 3000K	TYPE: 50W	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	2193	2193	2193	2193															
5	2182	2191	2176	2165															
10	2137	2157	2126	2103															
15	2063	2089	2046	2017															
20	1970	1996	1947	1910															
25	1852	1882	1825	1784															
30	1725	1751	1691	1648															
35	1585	1610	1547	1502															
40	1437	1459	1394	1348															
45	1284	1303	1238	1191															
50	1125	1145	1078	1030															
55	965	983	917	867															
60	802	822	756	705															
65	638	662	597	542															
70	475	507	441	384															
75	317	357	291	233															
80	171	217	156	104															
85	54.0	96.4	48.5	14.4															
90	2.38	15.0	2.35	2.53															
95	3.08	2.75	3.19	3.37															
100	4.04	3.67	4.18	4.37															
105	5.14	4.73	5.26	5.48															
110	6.31	5.88	6.46	6.69															
115	7.58	7.14	7.74	7.94															
120	8.86	8.41	9.02	9.21															
125	10.2	9.72	10.3	10.5															
130	11.5	11.1	11.6	11.9															
135	12.8	12.4	12.9	13.1															
140	14.1	13.7	14.2	14.4															
145	15.3	15.0	15.4	15.6															
150	16.4	16.2	16.5	16.6															
155	17.4	17.3	17.5	17.6															
160	18.3	18.3	18.3	18.5															
165	19.1	19.1	19.1	19.3															
170	19.8	19.8	19.7	19.8															
175	20.3	20.2	20.2	20.1															
180	20.4	20.4	20.5	20.3															

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