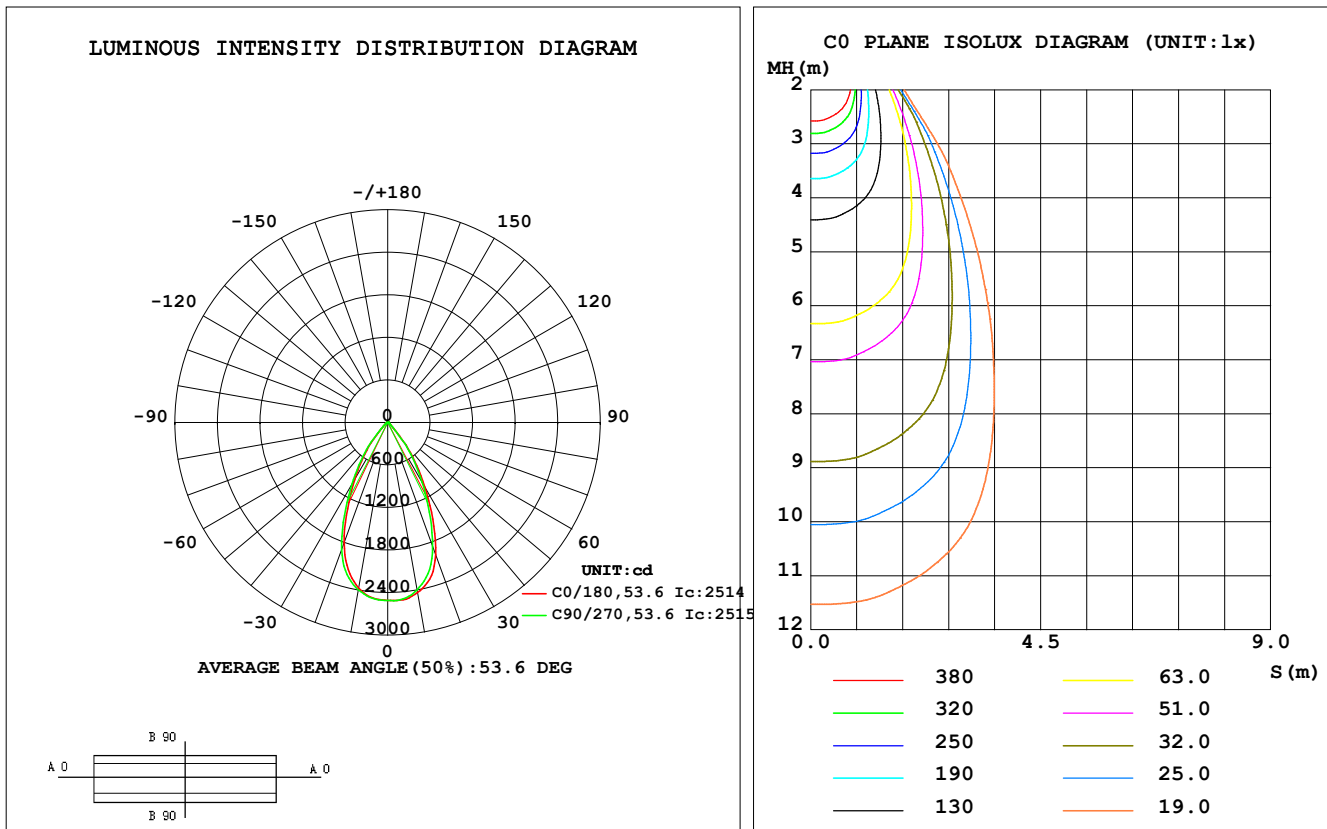


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:224.9V I:0.1110A P:23.80W PF:0.9520 Freq:50.00Hz Lamp Flux:2082.19x1 lm					
NAME: DP125RW-WF01-24G40		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.:	
MFR.:		SUR.:120		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 87.49 lm/W
MODEL	4000K CRI90	I <sub>max</sub> (cd)	2518	S/MH(C0/180)	0.81	
NOMINAL POWER(W)	24	LOR(%)	100.0	S/MH(C90/270)	0.83	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2082.2	η UP,DN(C0-180)	0.0,49.2	
NOMINAL FLUX(lm)	2082.19	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.8	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75	
TEST VOLTAGE(V)	36	η down(%)	100.0	CIBSE SHR MAX	0.85	



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZR  
Test Date:2021-07-16

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.354  
Humidity:65.0%  
Test Distance:8.402m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	2436	2422	2396	2369	2371	2360	2397	2440	0- 10	235.2	235.2	11.3, 11.3
20	1979	1941	1859	1800	1803	1816	1903	2011	10- 20	613.8	849.0	40.8, 40.8
30	1054	1036	972.5	930.9	933.3	958.4	1012	1081	20- 30	650.8	1500	72, 72
40	336.5	334.1	306.5	284.9	311.6	329.2	358.0	397.5	30- 40	402.4	1902	91.4, 91.4
50	58.97	57.05	54.68	53.02	72.01	75.91	79.58	78.13	40- 50	114.8	2017	96.9, 96.9
60	13.57	13.70	13.60	13.53	24.89	24.87	25.22	25.65	50- 60	31.52	2049	98.4, 98.4
70	8.998	9.122	9.252	9.296	17.15	17.11	17.28	17.48	60- 70	15.96	2065	99.2, 99.2
80	5.744	5.641	4.564	5.598	10.70	10.67	10.21	11.05	70- 80	11.19	2076	99.7, 99.7
90	3.588	3.597	3.677	3.715	6.014	6.010	6.072	6.170	80- 90	6.449	2082	100, 100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1978.5 lm

%lum = 95.0%

%lamp = 95.0%

Conical surface Flux(120deg): 2048.6 lm

%lum = 98.4%

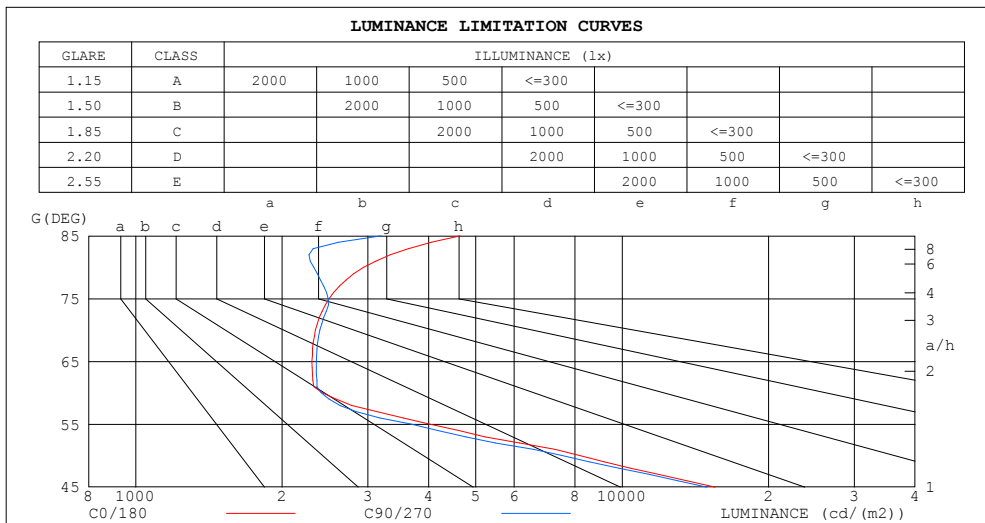
%lamp = 98.4%

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: ZR  
 Test Date: 2021-07-16

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.354  
 Humidity: 65.0%  
 Test Distance: 8.402m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:224.9V I:0.1110A P:23.80W PF:0.9520 Freq:50.00Hz Lamp Flux:2082.19x1 lm		
NAME: DP125RW-WF01-24G40	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:120	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4640	3193
80	2944	2323
75	2498	2486
70	2342	2391
65	2303	2351
60	2415	2404
55	4016	3681
50	8165	7517
45	15539	14938

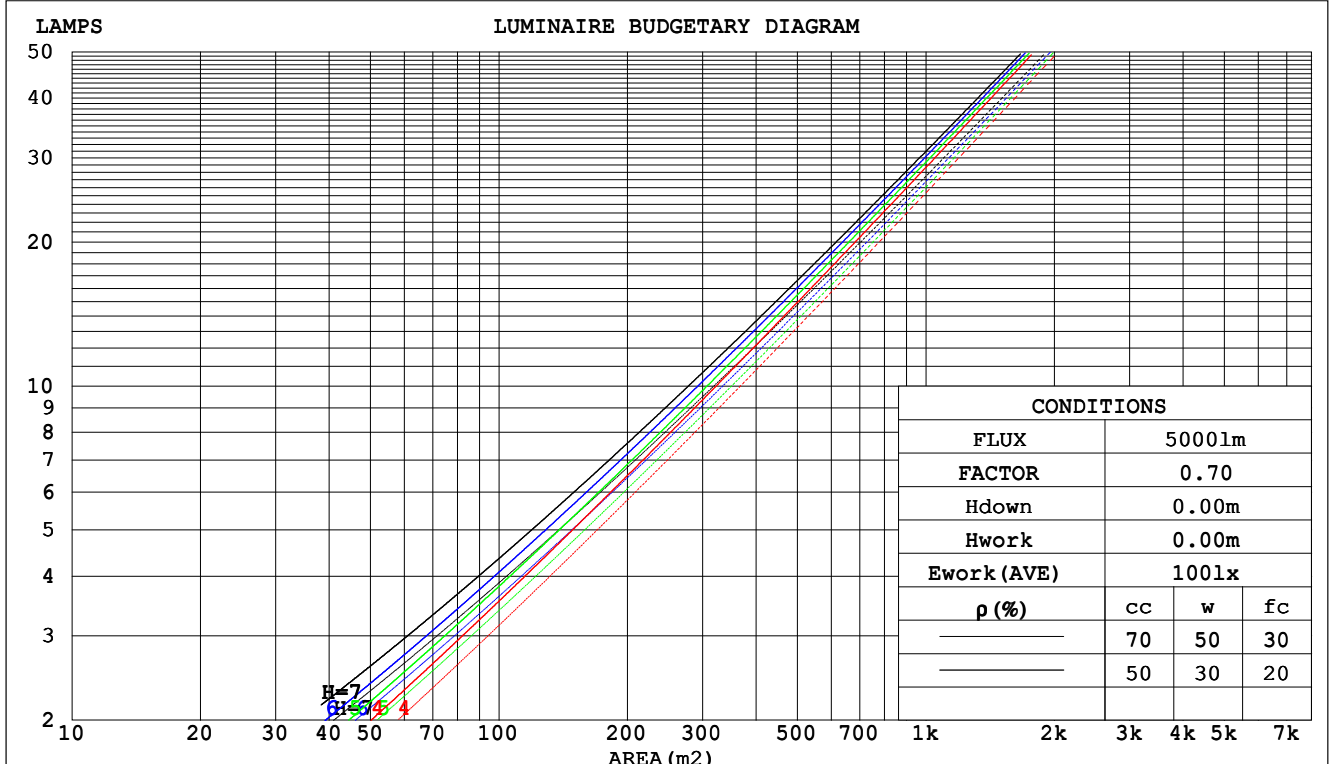
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZR  
Test Date:2021-07-16

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.354  
Humidity:65.0%  
Test Distance:8.402m [K=1.0000]  
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:224.9V I:0.1110A P:23.80W PF:0.9520 Freq:50.00Hz Lamp Flux:2082.19x1 lm		
NAME: DP125RW-WF01-24G40	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:120	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	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	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.11	1.08	1.06	1.08	1.06	1.04	1.04	1.02	1.01	1.01	.99	.98	.97	.96	.95	.93
2.0	1.03	.99	.95	1.01	.97	.94	.98	.95	.92	.95	.92	.90	.92	.90	.88	.87
3.0	.96	.91	.87	.94	.90	.86	.92	.88	.85	.89	.86	.83	.87	.84	.82	.81
4.0	.90	.84	.80	.88	.83	.79	.86	.82	.78	.84	.81	.77	.82	.79	.77	.75
5.0	.84	.78	.74	.83	.78	.74	.81	.77	.73	.80	.75	.72	.78	.74	.72	.70
6.0	.79	.73	.69	.78	.73	.68	.77	.72	.68	.75	.71	.68	.74	.70	.67	.66
7.0	.74	.68	.64	.74	.68	.64	.72	.67	.64	.71	.67	.63	.70	.66	.63	.62
8.0	.70	.64	.60	.70	.64	.60	.68	.63	.60	.67	.63	.59	.66	.62	.59	.58
9.0	.66	.60	.57	.66	.60	.56	.65	.60	.56	.64	.59	.56	.63	.59	.56	.55
10.0	.63	.57	.53	.62	.57	.53	.62	.57	.53	.61	.56	.53	.60	.56	.53	.51



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZR  
Test Date:2021-07-16

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.354  
Humidity:65.0%  
Test Distance:8.402m [K=1.0000]  
Remarks:

### WEC AND CCEC

Test:U:224.9V I:0.1110A P:23.80W PF:0.9520 Freq:50.00Hz Lamp Flux:2082.19x1 lm					
NAME: DP125RW-WF01-24G40			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.:			SUR.:120		Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.183	.104	.033	.176	.100	.032	.163	.094	.030	.152	.087	.028	.141	.082	.026	
2.0	.173	.095	.029	.168	.092	.028	.157	.087	.027	.147	.083	.026	.138	.078	.025	
3.0	.164	.088	.026	.160	.085	.026	.151	.082	.025	.142	.078	.024	.134	.074	.023	
4.0	.156	.081	.024	.152	.079	.023	.144	.076	.023	.137	.073	.022	.130	.071	.022	
5.0	.148	.076	.022	.145	.074	.022	.138	.072	.021	.132	.069	.021	.126	.067	.020	
6.0	.141	.071	.020	.138	.070	.020	.132	.068	.020	.127	.066	.019	.121	.064	.019	
7.0	.135	.067	.019	.132	.066	.019	.127	.064	.018	.122	.062	.018	.117	.061	.018	
8.0	.129	.063	.018	.126	.062	.018	.122	.061	.017	.117	.059	.017	.113	.058	.017	
9.0	.123	.060	.017	.121	.059	.017	.117	.058	.016	.113	.057	.016	.109	.055	.016	
10.0	.118	.057	.016	.116	.056	.016	.112	.055	.016	.109	.054	.015	.105	.053	.015	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.172	.157	.144	.147	.135	.124	.100	.093	.086	.058	.054	.050	.019	.017	.016	
2.0	.156	.132	.112	.134	.114	.097	.092	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.144	.114	.089	.124	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010	
4.0	.134	.099	.072	.115	.085	.063	.079	.060	.044	.046	.035	.026	.015	.011	.009	
5.0	.125	.087	.059	.108	.076	.052	.074	.053	.036	.043	.031	.022	.014	.010	.007	
6.0	.118	.078	.050	.101	.068	.043	.070	.047	.031	.041	.028	.018	.013	.009	.006	
7.0	.111	.070	.042	.096	.061	.037	.066	.043	.026	.038	.025	.015	.012	.008	.005	
8.0	.106	.064	.036	.091	.056	.031	.063	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.100	.059	.031	.087	.051	.027	.060	.036	.019	.035	.021	.012	.011	.007	.004	
10.0	.096	.055	.027	.083	.048	.024	.057	.033	.017	.033	.020	.010	.011	.006	.003	

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZR  
Test Date:2021-07-16

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.354  
Humidity:65.0%  
Test Distance:8.402m [K=1.0000]  
Remarks:

UGR(Unified Glare Rating) Table

Test:U:224.9V I:0.1110A P:23.80W PF:0.9520 Freq:50.00Hz Lamp Flux:2082.19x1 lm										
NAME: DP125RW-WF01-24G40					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.:					SUR.:120			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	15.8	16.7	16.0	16.9	17.1	15.4	16.3	15.6	16.5	16.7
3H	15.7	16.5	15.9	16.7	16.9	15.3	16.2	15.5	16.4	16.6
4H	15.6	16.4	15.9	16.7	16.9	15.2	16.1	15.5	16.3	16.5
6H	15.6	16.4	15.9	16.6	16.8	15.2	16.0	15.5	16.2	16.5
8H	15.6	16.3	15.9	16.6	16.8	15.2	15.9	15.5	16.2	16.4
12H	15.6	16.3	15.9	16.6	16.8	15.1	15.9	15.5	16.1	16.4
4H 2H	15.5	16.4	15.8	16.6	16.8	15.2	16.0	15.4	16.2	16.4
3H	15.4	16.2	15.8	16.4	16.7	15.1	15.8	15.4	16.1	16.3
4H	15.4	16.1	15.8	16.4	16.7	15.1	15.7	15.4	16.0	16.3
6H	15.4	16.0	15.8	16.3	16.7	15.0	15.6	15.4	15.9	16.3
8H	15.4	16.0	15.8	16.3	16.7	15.0	15.6	15.4	15.9	16.3
12H	15.5	16.0	15.9	16.3	16.7	15.0	15.5	15.4	15.9	16.3
8H 4H	15.3	15.8	15.7	16.2	16.6	15.0	15.5	15.3	15.8	16.2
6H	15.4	15.8	15.8	16.2	16.6	15.0	15.4	15.4	15.8	16.2
8H	15.4	15.8	15.8	16.2	16.6	15.0	15.4	15.4	15.8	16.2
12H	15.5	15.8	16.0	16.3	16.7	15.0	15.3	15.5	15.8	16.2
12H 4H	15.3	15.8	15.7	16.1	16.5	14.9	15.4	15.3	15.8	16.2
6H	15.3	15.7	15.8	16.1	16.6	14.9	15.3	15.4	15.7	16.2
8H	15.4	15.7	15.9	16.2	16.6	15.0	15.3	15.4	15.7	16.2
Variations with the observer position at spacings:										
S = 1.0H	+ 2.9 / - 6.6					+ 2.8 / - 6.8				
1.5H	+ 5.1 / - 6.2					+ 5.0 / - 6.3				
2.0H	+ 4.3 / - 2.3					+ 4.5 / - 2.5				

CIE Pub.117, 2082 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 2.5$ )

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZR  
Test Date:2021-07-16

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.354  
Humidity:65.0%  
Test Distance:8.402m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:224.9V I:0.1110A P:23.80W PF:0.9520 Freq:50.00Hz Lamp Flux:2082.19x1 lm		
NAME: DP125RW-WF01-24G40	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:120	Shielding Angle:

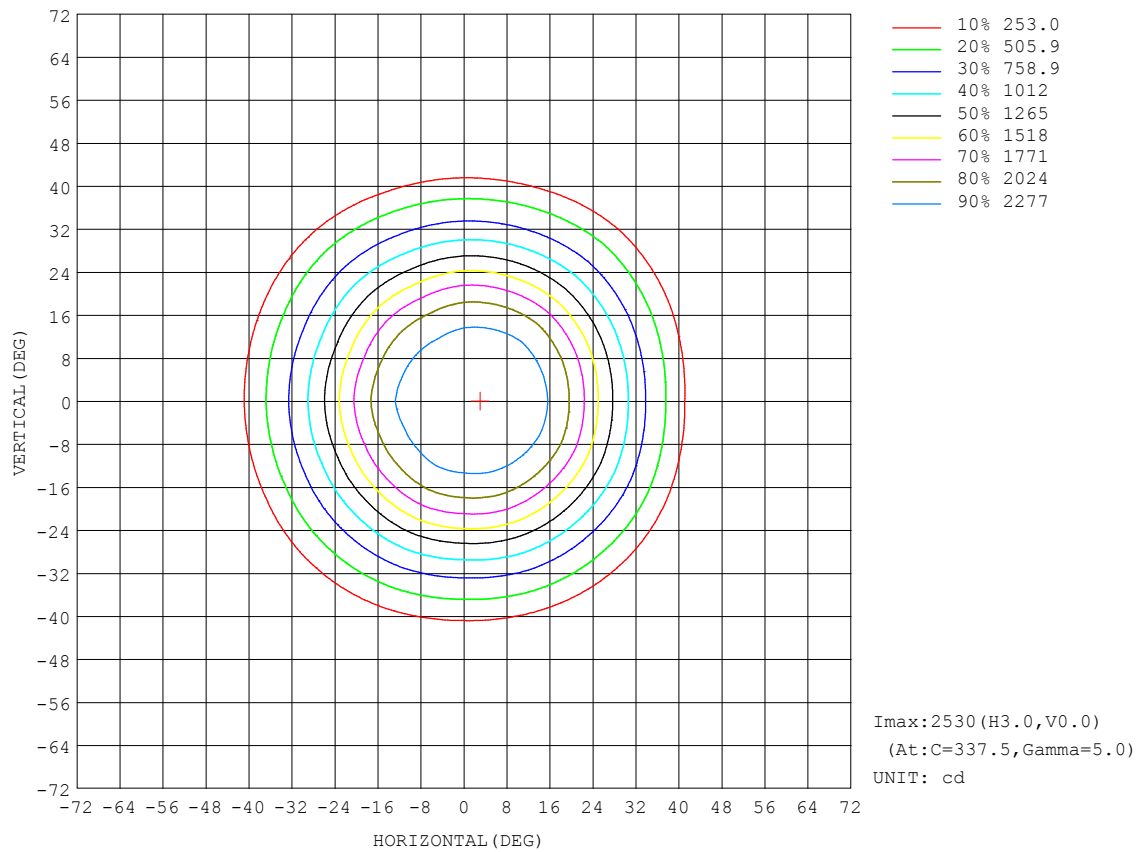
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	86	80	76	86	79	76	85	79	75	72
0.80	94	88	84	93	87	84	92	87	83	79
1.00	98	93	89	98	92	89	96	92	88	84
1.25	102	97	94	101	97	93	99	95	92	88
1.50	105	100	97	104	100	96	102	98	95	91
2.00	108	104	100	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	111	108	105	110	106	104	106	104	102	95
4.00	113	111	108	111	109	107	108	106	104	97
5.00	115	112	110	113	111	109	109	107	106	98
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZR  
Test Date:2021-07-16

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.354  
Humidity:65.0%  
Test Distance:8.402m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

Test:U:224.9V I:0.1110A P:23.80W PF:0.9520 Freq:50.00Hz Lamp Flux:2082.19x1 lm		
NAME: DP125RW-WF01-24G40	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:120	Shielding Angle:



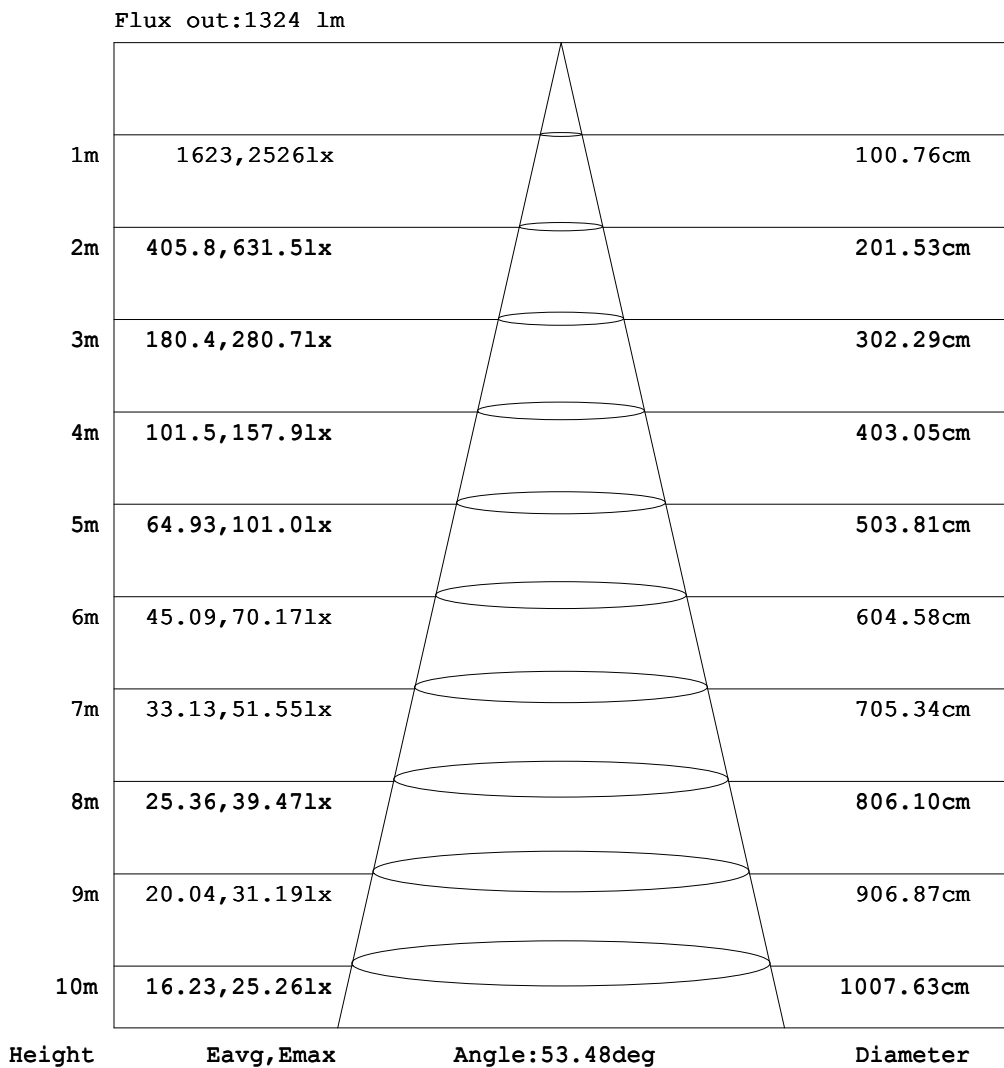
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZR  
Test Date:2021-07-16

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.354  
Humidity:65.0%  
Test Distance:8.402m [K=1.0000]  
Remarks:



### AAI Figure

Test:U:224.9V I:0.1110A P:23.80W PF:0.9520 Freq:50.00Hz Lamp Flux:2082.19x1 lm		
NAME: DP125RW-WF01-24G40	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:120	Shielding Angle:



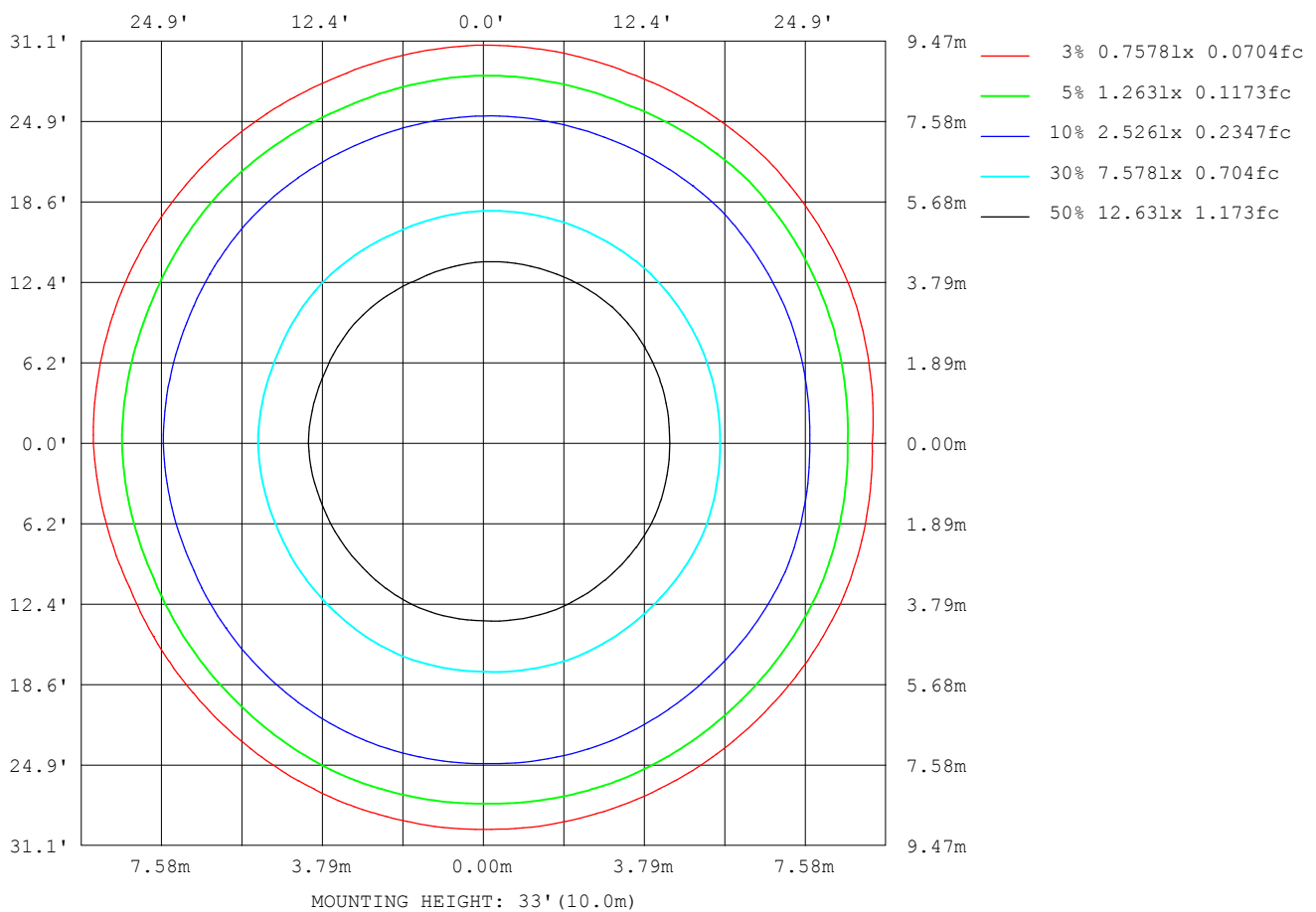
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: ZR  
Test Date: 2021-07-16

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.354  
Humidity: 65.0%  
Test Distance: 8.402m [K=1.0000]  
Remarks:

### ISOLUX DIAGRAM

Test:U:224.9V I:0.1110A P:23.80W PF:0.9520 Freq:50.00Hz Lamp Flux:2082.19x1 lm		
NAME: DP125RW-WF01-24G40	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:120	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZR  
Test Date:2021-07-16

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.354  
Humidity:65.0%  
Test Distance:8.402m [K=1.0000]  
Remarks:

## LED Avg.L Report

Test:U:224.9V I:0.1110A P:23.80W PF:0.9520 Freq:50.00Hz Lamp Flux:2082.19x1 lm		
NAME: DP125RW-WF01-24G40	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:120	Shielding Angle:

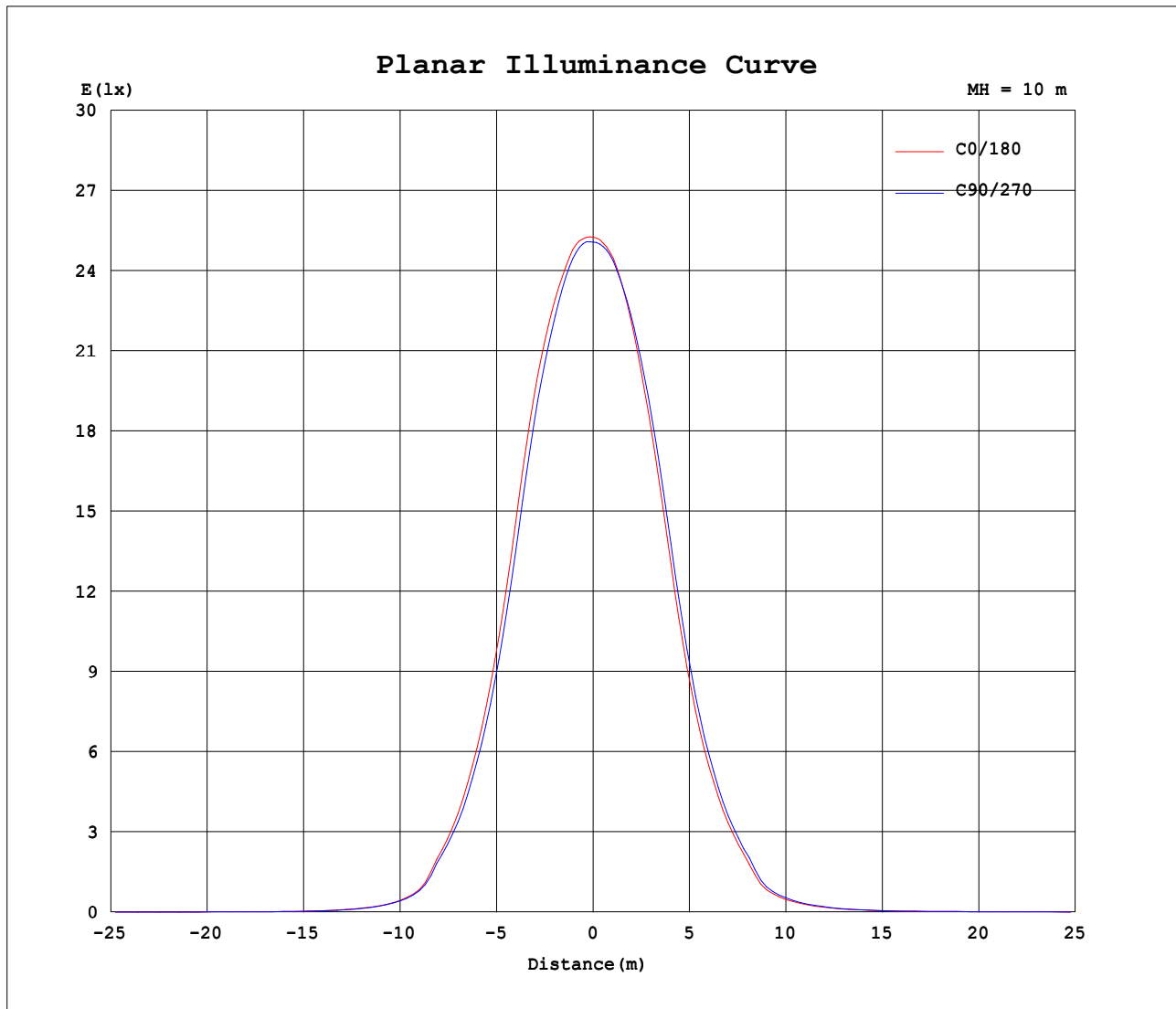
AvgL	cd/m2
L_0~180 (65) av	3334
L_0~180 (75) av	3587
L_0~180 (85) av	6408
L_90~270 (65) av	3377
L_90~270 (75) av	3613
L_90~270 (85) av	5083
L_45 (65) av	3376
L_45 (75) av	3636
L_45 (85) av	5413

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:ZR  
 Test Date:2021-07-16

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.354  
 Humidity:65.0%  
 Test Distance:8.402m [K=1.0000]  
 Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: ZR  
Test Date: 2021-07-16

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.354  
Humidity: 65.0%  
Test Distance: 8.402m [K=1.0000]  
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:8.402m [K=1.0000]
Remarks:

```