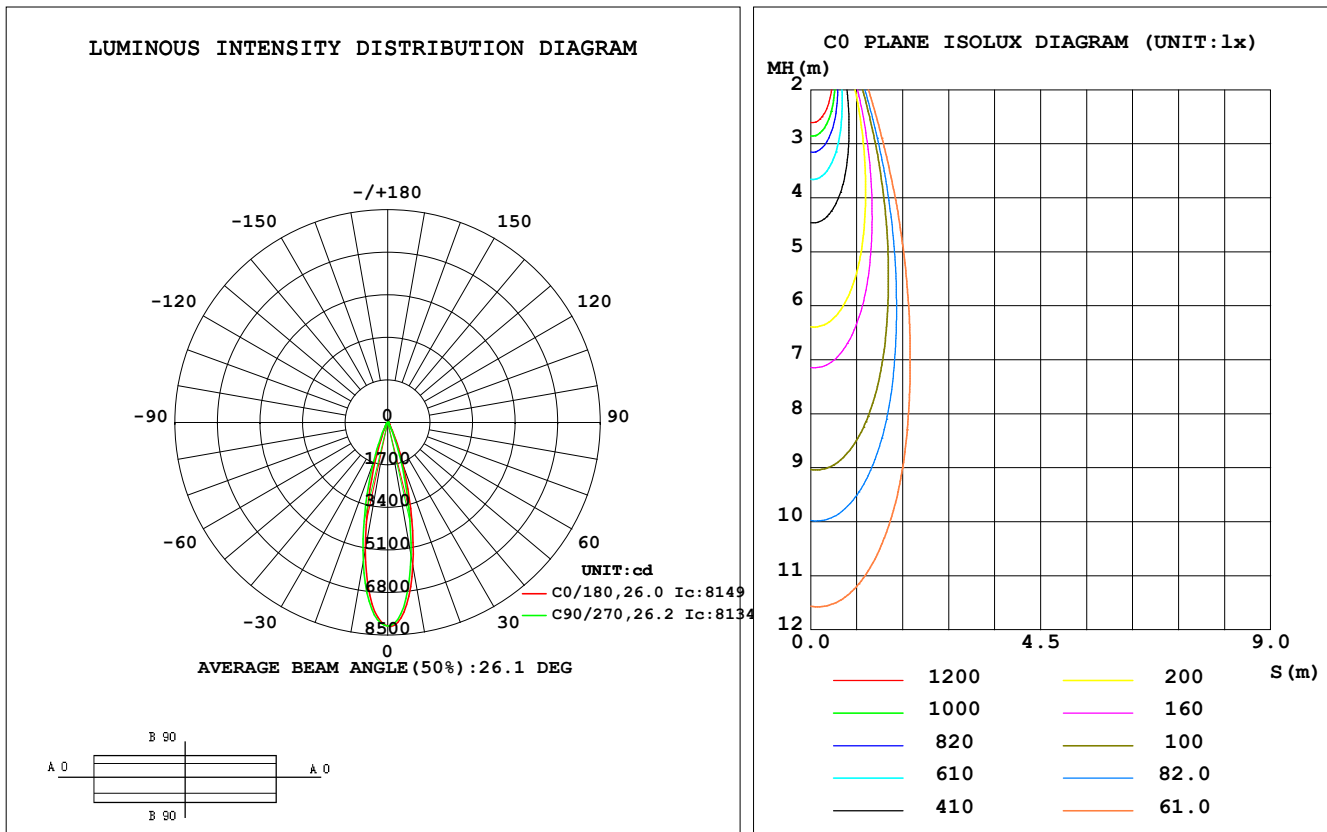


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:224.9V I:0.1110A P:23.80W PF:0.9520 Freq:50.00Hz Lamp Flux:2009.16x1 lm					
NAME: DP125RW-M03-24G30		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.:	
MFR.:		SUR.:120		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 84.42 lm/W
MODEL	3000K CRI90	I <sub>max</sub> (cd)	8155	S/MH(C0/180)	0.41	
NOMINAL POWER(W)	24	LOR(%)	100.0	S/MH(C90/270)	0.45	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2009.2	η UP,DN(C0-180)	0.0,48.9	
NOMINAL FLUX(lm)	2009.16	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,51.1	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE(V)	36	η down(%)	100.0	CIBSE SHR MAX	1.00	



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:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	5813	5695	5383	5101	5162	5360	5659	5838	0- 10	646.7	646.7	32.2,32.2
20	1826	1632	1411	1142	1115	1338	1630	1914	10- 20	874.9	1522	75.7,75.7
30	337.1	318.8	249.6	200.8	226.7	255.9	313.7	371.6	20- 30	313.7	1835	91.3,91.3
40	102.4	96.47	83.12	71.37	98.97	101.2	112.0	123.5	30- 40	102.0	1937	96.4,96.4
50	20.94	18.15	14.38	12.04	27.84	28.68	31.69	37.10	40- 50	40.19	1977	98.4,98.4
60	4.398	4.463	3.743	3.300	13.77	14.08	14.78	15.77	50- 60	13.03	1990	99.1,99.1
70	2.998	3.056	3.090	3.100	9.464	9.665	10.02	10.33	60- 70	7.509	1998	99.4,99.4
80	3.084	3.104	3.126	3.158	6.859	6.951	7.164	7.380	70- 80	6.088	2004	99.7,99.7
90	3.252	3.269	3.291	3.359	5.117	5.142	5.295	5.439	80- 90	5.094	2009	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): 1962.9 lm

%lum = 97.7%

%lamp = 97.7%

Conical surface Flux(120deg): 1990.5 lm

%lum = 99.1%

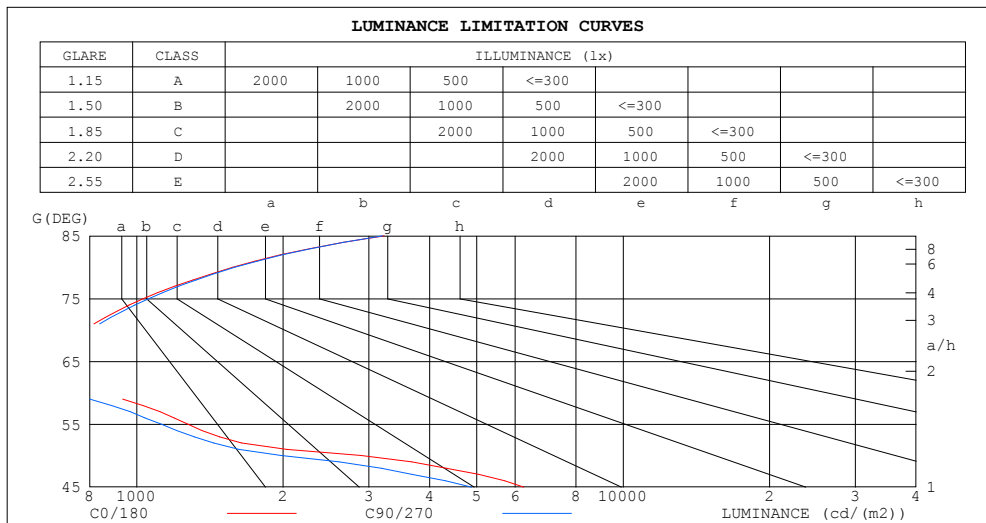
%lamp = 99.1%

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:

## LUMINANCE LIMITATION CURVES

Test:U:224.9V I:0.1110A P:23.80W PF:0.9520 Freq:50.00Hz Lamp Flux:2009.16x1 lm		
NAME: DP125RW-M03-24G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:120	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	3225	3204
80	1576	1591
75	1032	1059
70	778	799
65	634	653
60	780	662
55	1273	1122
50	2891	1978
45	6249	4879

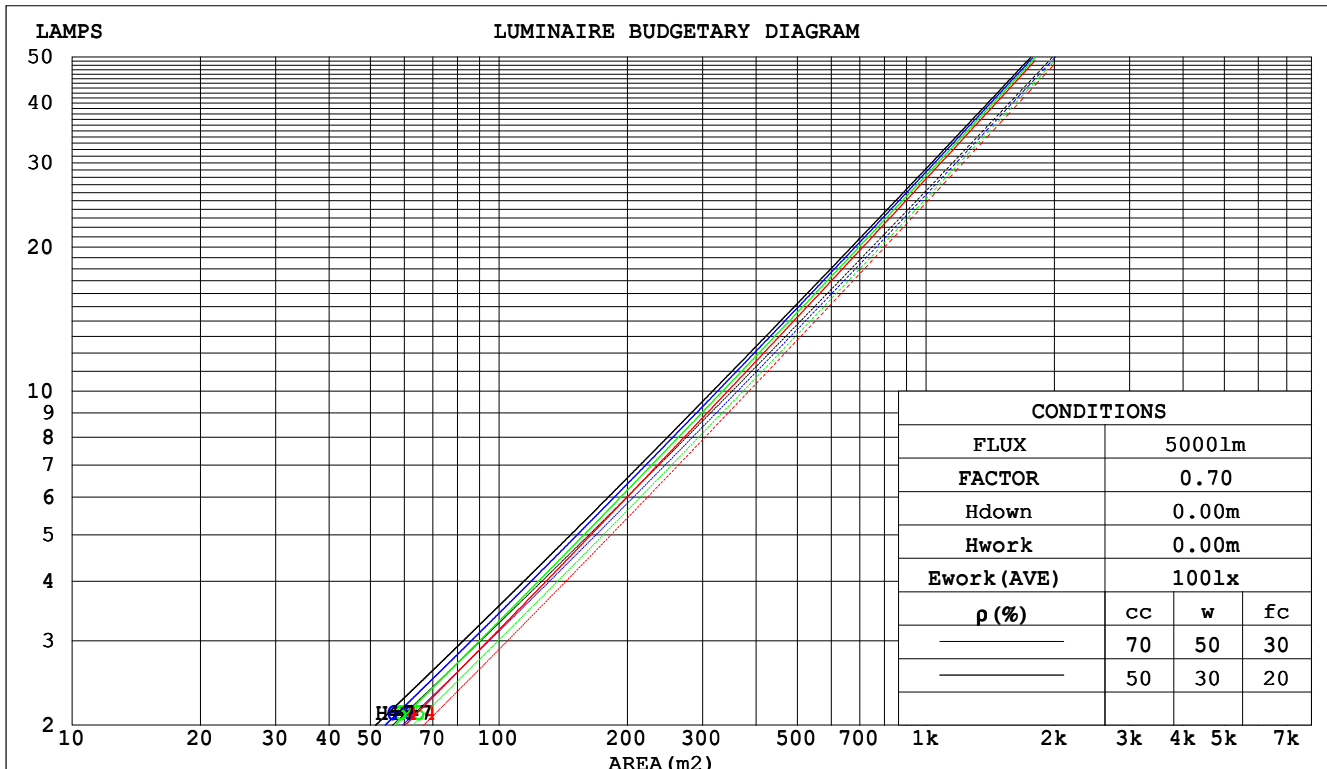
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZR  
Test Date:2021-07-16

$\gamma$  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:2009.16x1 lm		
NAME: DP125RW-M03-24G30	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	.00
1.0	1.12	1.10	1.09	1.10	1.08	1.07	1.06	1.05	1.04	1.03	1.01	1.00	.99	.98	.98	.96
2.0	1.07	1.04	1.01	1.05	1.02	.00	1.02	.00	.98	.99	.97	.96	.96	.95	.94	.92
3.0	1.02	.98	.95	1.00	.97	.94	.98	.95	.93	.96	.93	.91	.94	.92	.90	.89
4.0	.97	.93	.90	.96	.93	.90	.94	.91	.89	.93	.90	.88	.91	.89	.87	.85
5.0	.94	.89	.86	.93	.89	.86	.91	.88	.85	.90	.87	.84	.88	.86	.84	.82
6.0	.90	.86	.83	.89	.85	.82	.88	.84	.82	.87	.84	.81	.86	.83	.81	.80
7.0	.87	.83	.79	.86	.82	.79	.85	.82	.79	.84	.81	.78	.83	.80	.78	.77
8.0	.84	.80	.77	.84	.79	.77	.83	.79	.76	.82	.78	.76	.81	.78	.76	.75
9.0	.81	.77	.74	.81	.77	.74	.80	.76	.74	.79	.76	.74	.79	.76	.73	.72
10.0	.79	.75	.72	.79	.75	.72	.78	.74	.72	.77	.74	.72	.77	.74	.71	.70



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:2009.16x1 lm		
NAME: DP125RW-M03-24G30	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	.147	.083	.026	.140	.080	.025	.127	.073	.023	.116	.067	.021	.105	.061	.020		
2.0	.135	.074	.023	.130	.072	.022	.120	.067	.021	.110	.062	.019	.101	.057	.018		
3.0	.126	.067	.020	.122	.065	.020	.113	.061	.019	.105	.058	.018	.098	.054	.017		
4.0	.118	.061	.018	.114	.060	.018	.107	.057	.017	.100	.054	.016	.094	.051	.016		
5.0	.111	.057	.016	.108	.055	.016	.102	.053	.016	.096	.051	.015	.090	.048	.015		
6.0	.105	.053	.015	.102	.052	.015	.097	.050	.014	.092	.048	.014	.087	.046	.014		
7.0	.100	.049	.014	.097	.049	.014	.093	.047	.013	.088	.045	.013	.084	.044	.013		
8.0	.095	.046	.013	.093	.046	.013	.089	.044	.013	.085	.043	.012	.081	.042	.012		
9.0	.091	.044	.012	.089	.043	.012	.085	.042	.012	.082	.041	.012	.079	.040	.012		
10.0	.087	.042	.012	.085	.041	.011	.082	.040	.011	.079	.039	.011	.076	.038	.011		

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	.169	.158	.147	.145	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.016	
2.0	.151	.133	.117	.130	.114	.101	.089	.079	.070	.051	.046	.041	.016	.015	.013	
3.0	.137	.113	.095	.117	.098	.082	.081	.068	.058	.046	.040	.034	.015	.013	.011	
4.0	.125	.098	.078	.107	.085	.068	.073	.059	.048	.043	.035	.028	.014	.011	.009	
5.0	.114	.086	.065	.098	.074	.056	.068	.052	.040	.039	.030	.024	.013	.010	.008	
6.0	.106	.076	.055	.091	.066	.048	.063	.046	.034	.036	.027	.020	.012	.009	.007	
7.0	.098	.068	.047	.084	.059	.041	.058	.041	.029	.034	.024	.017	.011	.008	.006	
8.0	.092	.061	.040	.079	.053	.035	.055	.037	.025	.032	.022	.015	.010	.007	.005	
9.0	.086	.056	.035	.074	.048	.031	.051	.034	.022	.030	.020	.013	.010	.007	.004	
10.0	.081	.051	.031	.070	.044	.027	.048	.031	.019	.028	.018	.011	.009	.006	.004	

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:2009.16x1 lm											
NAME: DP125RW-M03-24G30					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	7.4	8.1	7.6	8.3	8.4	6.3	7.0	6.5	7.2	7.3	
	3H	7.3	8.0	7.6	8.2	8.4	6.2	6.9	6.5	7.1	7.3
	4H	7.3	7.9	7.6	8.2	8.4	6.3	6.9	6.5	7.1	7.3
	6H	7.4	8.0	7.7	8.2	8.5	6.4	7.0	6.7	7.2	7.5
	8H	7.5	8.1	7.8	8.3	8.6	6.5	7.1	6.8	7.4	7.6
	12H	7.7	8.2	8.0	8.5	8.7	6.8	7.3	7.1	7.6	7.9
4H	2H	7.2	7.8	7.5	8.0	8.2	6.1	6.7	6.4	6.9	7.2
	3H	7.1	7.7	7.5	7.9	8.2	6.1	6.6	6.4	6.9	7.2
	4H	7.2	7.7	7.5	8.0	8.3	6.2	6.7	6.5	7.0	7.3
	6H	7.4	7.8	7.7	8.1	8.5	6.5	6.9	6.8	7.2	7.6
	8H	7.6	8.0	7.9	8.3	8.7	6.7	7.1	7.1	7.5	7.8
	12H	7.9	8.3	8.3	8.6	9.0	7.1	7.5	7.6	7.9	8.3
8H	4H	7.1	7.5	7.5	7.9	8.2	6.2	6.6	6.5	6.9	7.3
	6H	7.4	7.8	7.8	8.2	8.6	6.6	6.9	7.0	7.3	7.7
	8H	7.7	8.0	8.2	8.5	8.9	7.0	7.3	7.4	7.7	8.2
	12H	8.3	8.6	8.8	9.0	9.5	7.7	7.9	8.1	8.4	8.8
12H	4H	7.1	7.5	7.5	7.8	8.2	6.1	6.5	6.5	6.9	7.3
	6H	7.5	7.8	7.9	8.2	8.6	6.6	6.9	7.1	7.4	7.8
	8H	7.8	8.1	8.3	8.5	9.0	7.1	7.4	7.6	7.8	8.3
Variations with the observer position at spacings:											
S = 1.0H	+ 2.0 / - 3.4					+ 1.9 / - 2.9					
1.5H	+ 3.7 / - 3.4					+ 3.3 / - 2.9					
2.0H	+ 4.0 / - 1.5					+ 3.1 / - 1.1					

CIE Pub.117, 2009 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 2.4$ )

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:2009.16x1 lm		
NAME: DP125RW-M03-24G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:120	Shielding Angle:

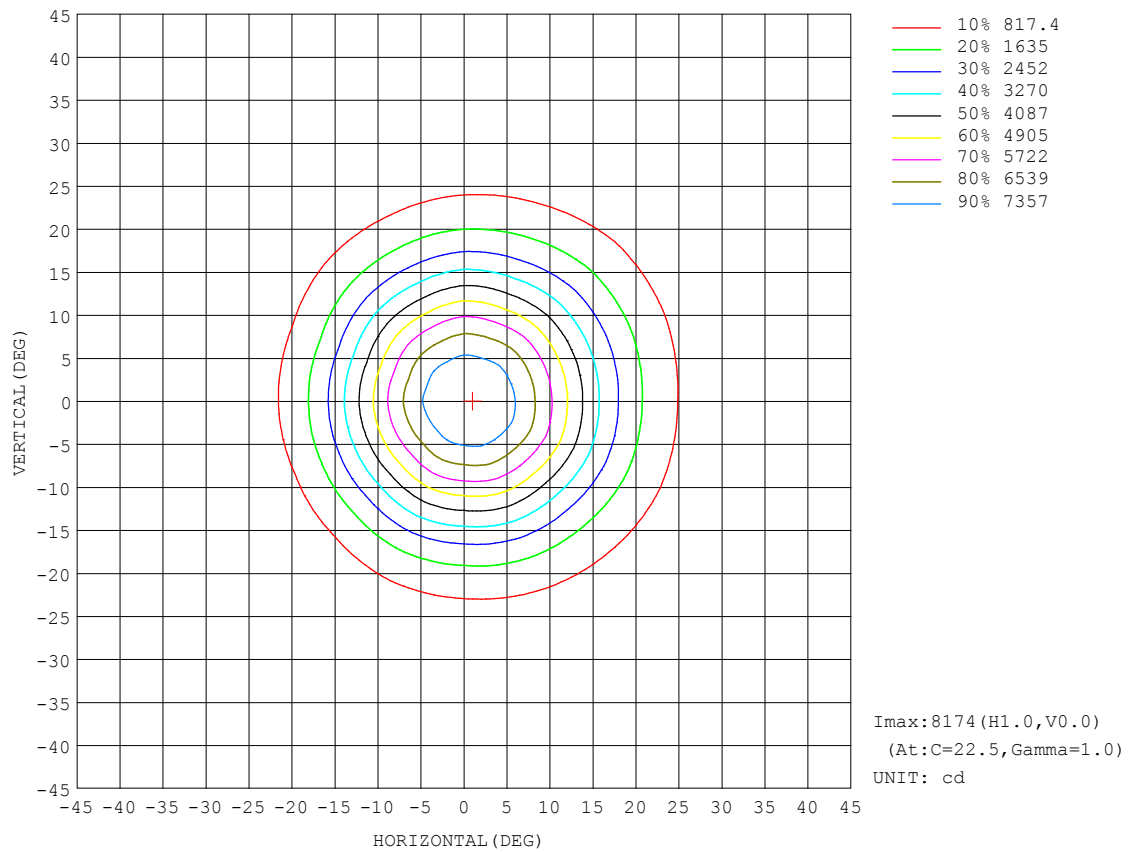
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	89	83	80	89	83	80	88	83	80	76
0.80	96	91	87	96	91	87	95	90	87	84
1.00	101	95	92	100	95	92	98	95	91	87
1.25	104	99	96	103	99	96	101	98	95	91
1.50	107	102	99	106	102	99	103	100	98	93
2.00	109	105	102	108	104	101	105	102	100	95
2.50	111	107	104	109	106	103	106	103	101	96
3.00	112	109	106	110	107	105	107	105	103	97
4.00	114	111	109	112	110	108	108	107	105	98
5.00	115	113	111	113	111	110	109	108	107	99
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:2009.16x1 lm		
NAME: DP125RW-M03-24G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:120	Shielding Angle:



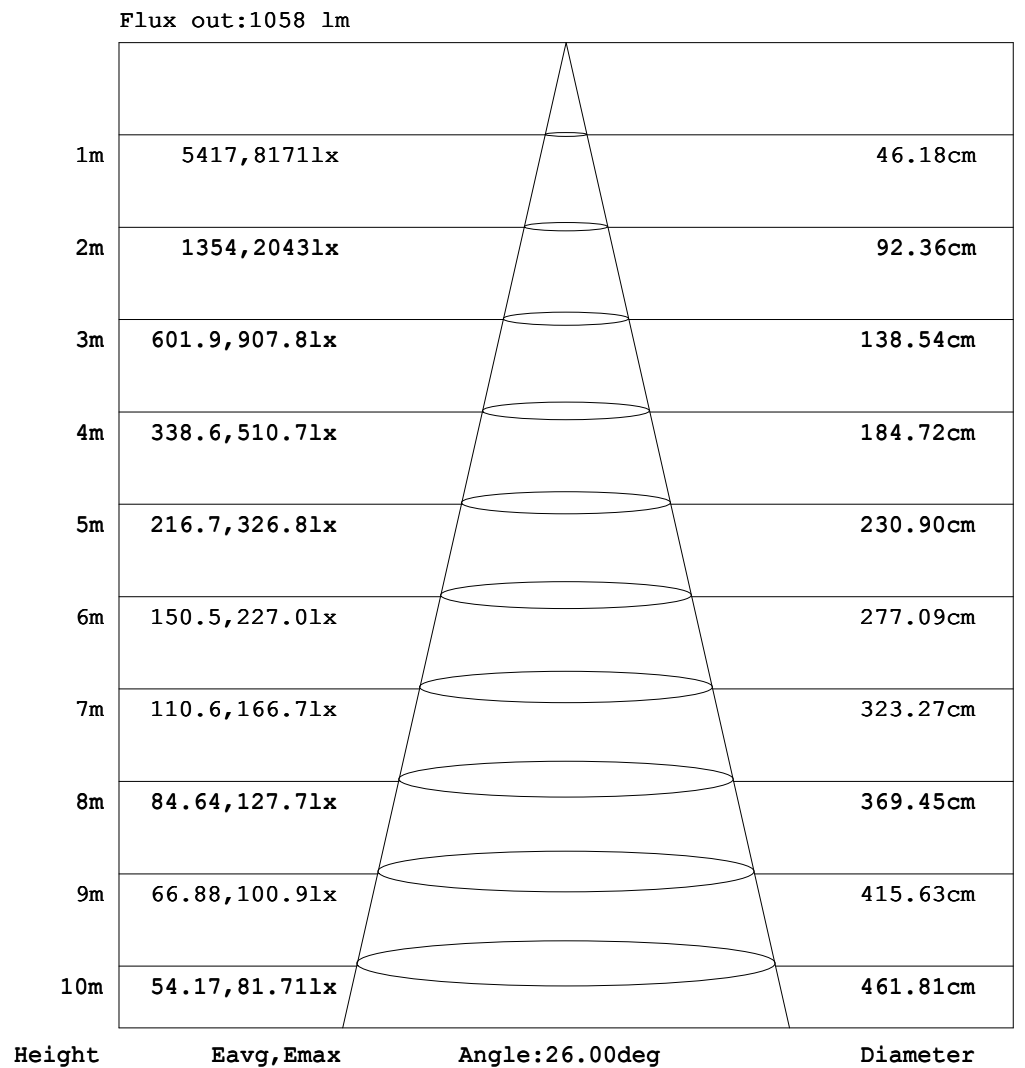
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZR  
Test Date:2021-07-16

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:2009.16x1 lm		
NAME: DP125RW-M03-24G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:120	Shielding Angle:



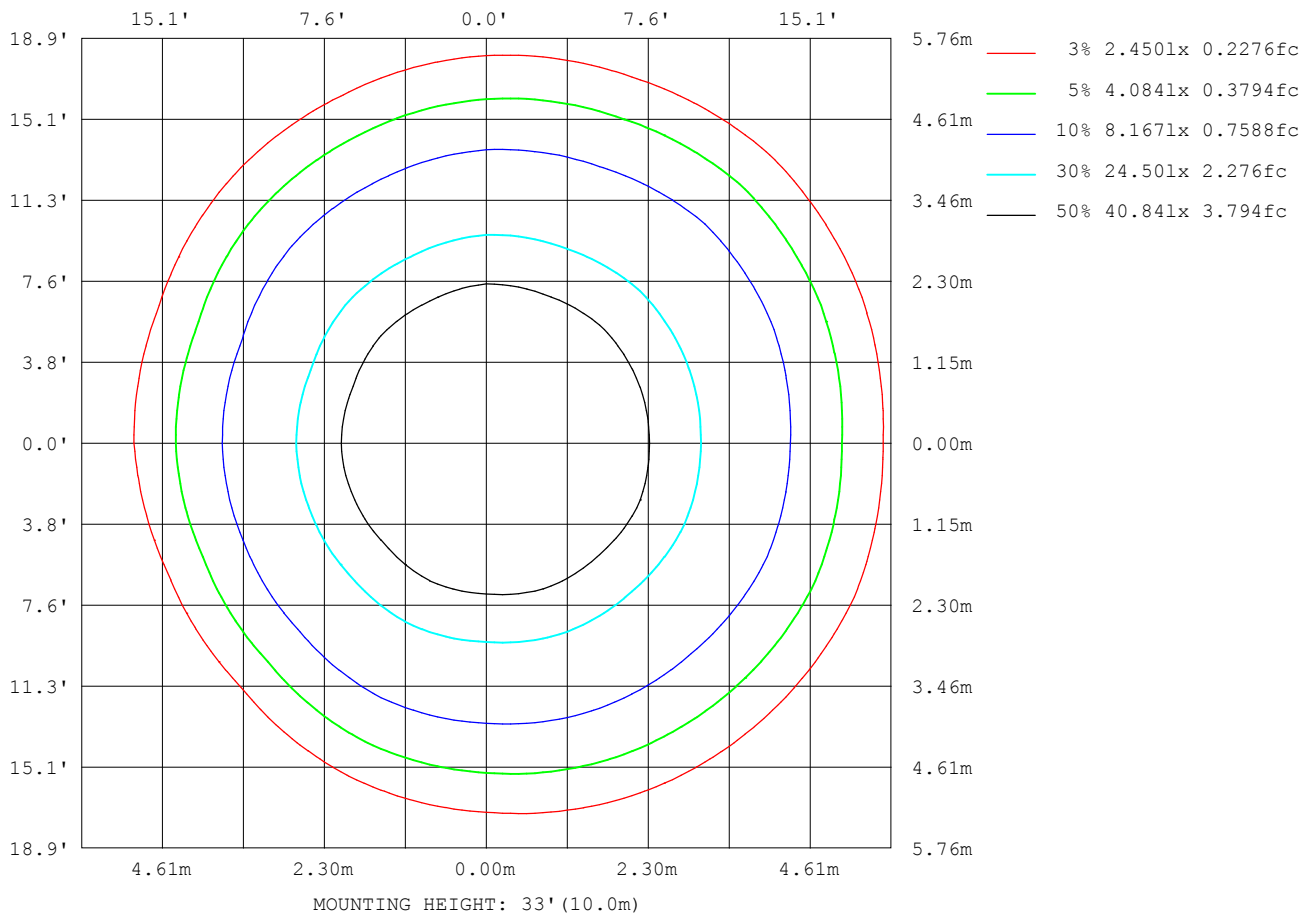
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:2009.16x1 lm		
NAME: DP125RW-M03-24G30	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:2009.16x1 lm		
NAME: DP125RW-M03-24G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:120	Shielding Angle:

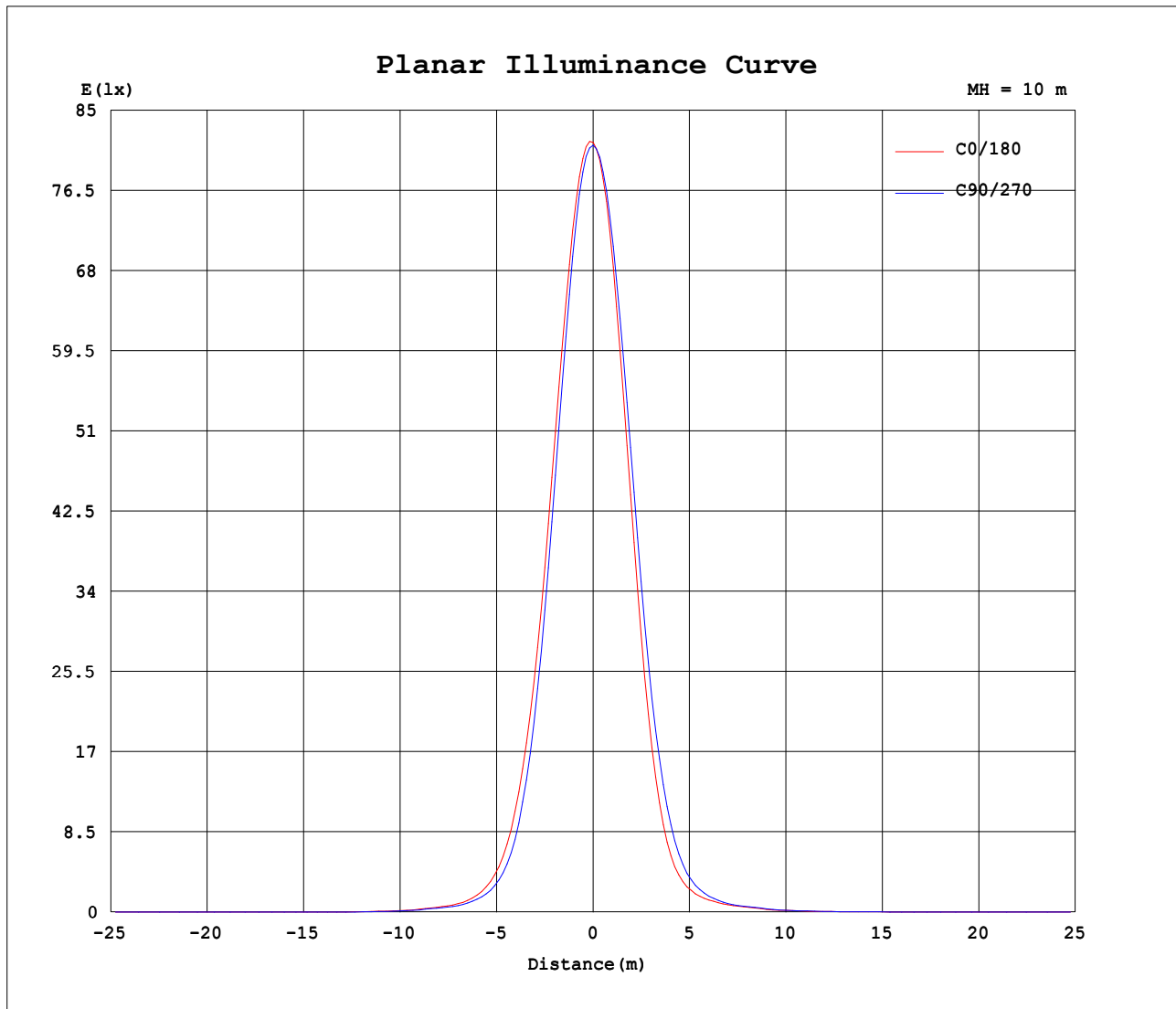
AvgL	cd/m2
L_0~180 (65) av	1504
L_0~180 (75) av	1882
L_0~180 (85) av	4588
L_90~270 (65) av	1587
L_90~270 (75) av	1974
L_90~270 (85) av	4704
L_45 (65) av	1581
L_45 (75) av	1967
L_45 (85) av	4715

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:

```