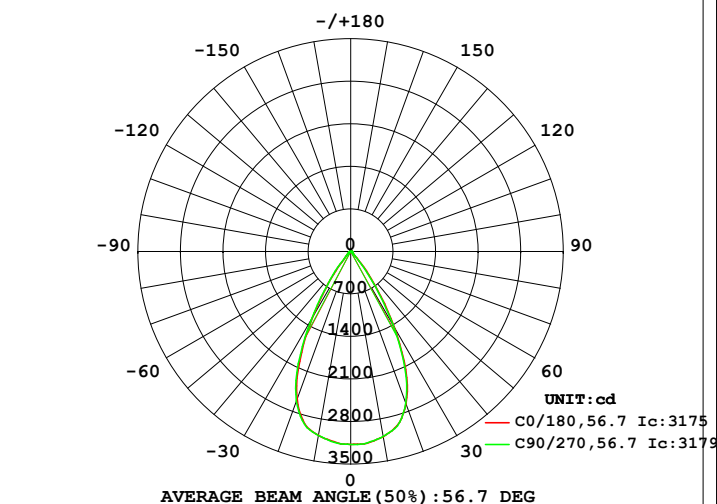


## LUMINAIRE PHOTOMETRIC TEST REPORT

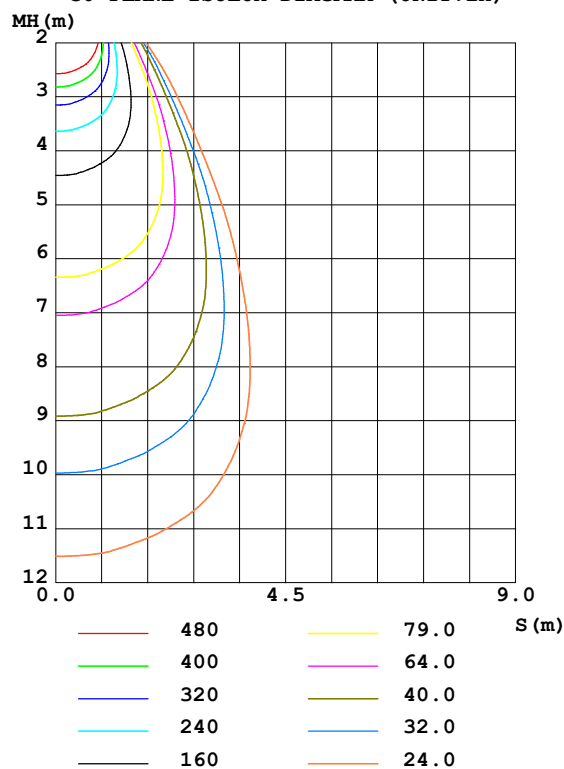
Test:U:224.9V I:0.1470A P:31.70W PF:0.9560 Freq:50.00Hz Lamp Flux:2673.62x1 lm		
NAME: DP145RW-WF01-32G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:140	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 84.34 lm/W			
MODEL	3000K CRI90	I <sub>max</sub> (cd)	3181	S/MH(C0/180)	0.83
NOMINAL POWER(W)	32	LOR(%)	100.0	S/MH(C90/270)	0.84
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2673.6	η UP,DN(C0-180)	0.0,50.3
NOMINAL FLUX(lm)	2673.62	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.7
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	36	η down(%)	100.0	CIBSE SHR MAX	0.90

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



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	3095	3105	3090	3075	3071	3062	3074	3093	0- 10	298.7	298.7	11.2,11.2
20	2664	2676	2654	2594	2584	2563	2616	2670	10- 20	819.4	1118	41.8,41.8
30	1435	1454	1390	1285	1269	1254	1313	1405	20- 30	926.3	2044	76.5,76.5
40	345.5	353.6	293.8	223.7	236.3	239.9	271.0	322.2	30- 40	454.8	2499	93.5,93.5
50	55.49	56.24	52.03	47.71	64.49	64.72	68.87	73.41	40- 50	91.71	2591	96.9,96.9
60	22.08	22.65	21.88	20.12	34.30	34.33	35.13	36.79	50- 60	35.33	2626	98.2,98.2
70	14.31	14.27	13.84	13.27	23.11	23.13	23.73	24.60	60- 70	22.95	2649	99.1,99.1
80	8.802	8.312	6.493	7.462	14.21	14.12	13.60	15.18	70- 80	15.69	2665	99.7,99.7
90	4.709	4.708	4.782	4.875	7.855	7.826	7.909	8.040	80- 90	8.668	2674	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): 2560.1 lm

%lum = 95.8%

%lamp = 95.8%

Conical surface Flux(120deg): 2626.3 lm

%lum = 98.2%

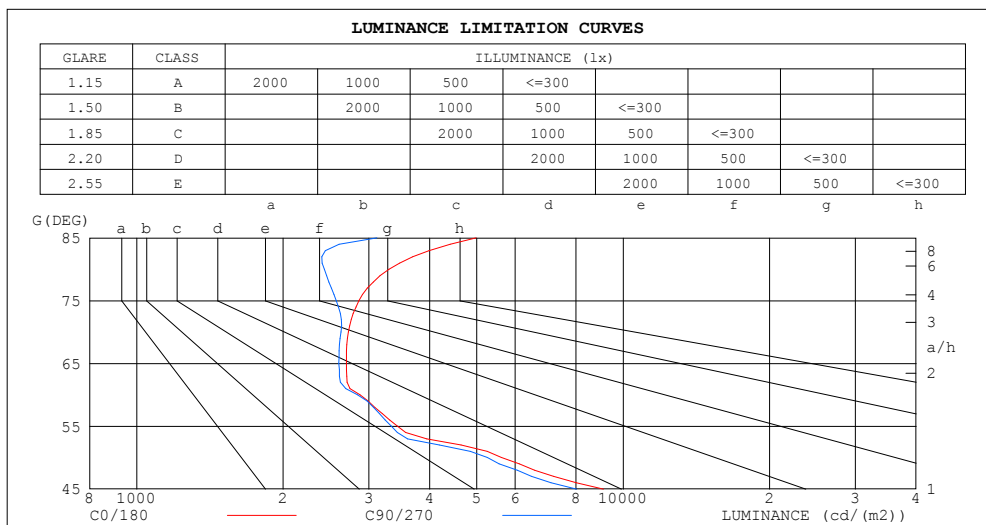
%lamp = 98.2%

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:0.1470A P:31.70W PF:0.9560 Freq:50.00Hz Lamp Flux:2673.62x1 lm		
NAME: DP145RW-WF01-32G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:140	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4987	3117
80	3300	2429
75	2862	2570
70	2724	2629
65	2699	2604
60	2874	2843
55	3434	3335
50	5620	5258
45	9112	8026

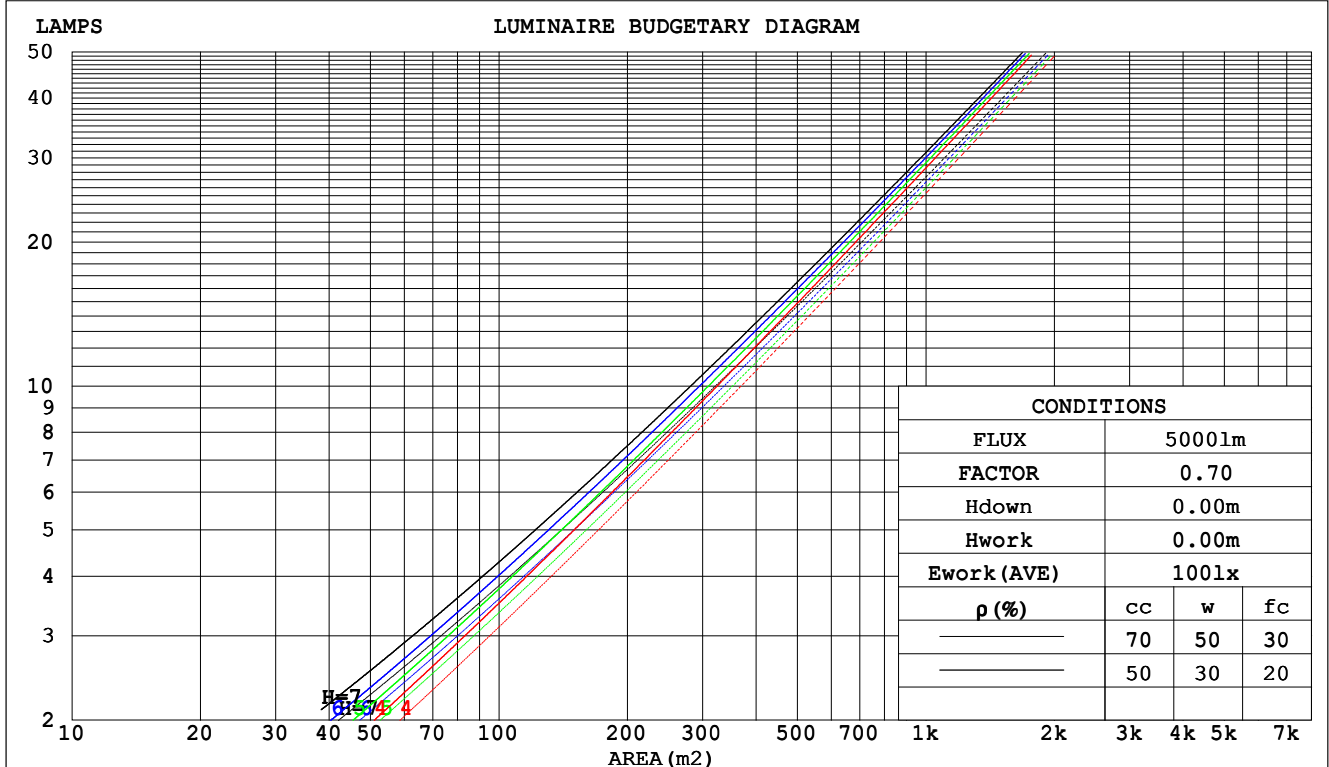
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZR  
Test Date:2021-07-16

$\gamma$  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:0.1470A P:31.70W PF:0.9560 Freq:50.00Hz Lamp Flux:2673.62x1 lm		
NAME: DP145RW-WF01-32G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:140	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	1.11	1.08	1.06	1.08	1.06	1.04	1.04	1.03	1.01	1.01	.99	.98	.97	.96	.95	.93
2.0	1.03	.99	.96	1.01	.98	.95	.98	.95	.93	.95	.93	.91	.92	.90	.89	.87
3.0	.96	.91	.87	.95	.90	.87	.92	.89	.85	.90	.87	.84	.88	.85	.83	.81
4.0	.90	.85	.81	.89	.84	.80	.87	.83	.79	.85	.81	.78	.83	.80	.77	.76
5.0	.85	.79	.75	.84	.79	.75	.82	.77	.74	.80	.76	.73	.79	.75	.73	.71
6.0	.80	.74	.70	.79	.74	.70	.78	.73	.69	.76	.72	.69	.75	.71	.68	.67
7.0	.75	.69	.65	.75	.69	.65	.73	.68	.65	.72	.68	.64	.71	.67	.64	.63
8.0	.71	.65	.61	.71	.65	.61	.70	.65	.61	.69	.64	.61	.68	.63	.60	.59
9.0	.67	.62	.58	.67	.61	.58	.66	.61	.57	.65	.61	.57	.64	.60	.57	.56
10.0	.64	.58	.55	.64	.58	.54	.63	.58	.54	.62	.57	.54	.61	.57	.54	.53



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:0.1470A P:31.70W PF:0.9560 Freq:50.00Hz Lamp Flux:2673.62x1 lm					
NAME: DP145RW-WF01-32G30			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.:			SUR.:140		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	.180	.102	.032	.173	.099	.031	.161	.092	.029	.149	.086	.028	.139	.080	.026	
2.0	.171	.093	.029	.165	.091	.028	.154	.086	.027	.145	.081	.025	.135	.077	.024	
3.0	.161	.086	.026	.157	.084	.025	.147	.080	.024	.139	.076	.023	.131	.073	.023	
4.0	.153	.079	.023	.149	.078	.023	.141	.075	.022	.134	.072	.022	.127	.069	.021	
5.0	.145	.074	.021	.142	.073	.021	.135	.070	.021	.129	.068	.020	.123	.066	.020	
6.0	.138	.069	.020	.135	.068	.020	.129	.066	.019	.124	.064	.019	.119	.062	.019	
7.0	.132	.065	.019	.129	.064	.018	.124	.063	.018	.119	.061	.018	.115	.060	.017	
8.0	.126	.062	.017	.124	.061	.017	.119	.060	.017	.115	.058	.017	.111	.057	.017	
9.0	.121	.059	.016	.119	.058	.016	.115	.057	.016	.111	.055	.016	.107	.054	.016	
10.0	.116	.056	.015	.114	.055	.015	.110	.054	.015	.107	.053	.015	.103	.052	.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	.171	.157	.145	.147	.135	.124	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.156	.132	.113	.134	.114	.097	.092	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.144	.114	.090	.123	.098	.078	.084	.068	.055	.049	.040	.032	.016	.013	.011	
4.0	.133	.099	.073	.114	.085	.063	.079	.060	.044	.045	.035	.026	.015	.011	.009	
5.0	.124	.087	.060	.107	.075	.052	.074	.053	.037	.043	.031	.022	.014	.010	.007	
6.0	.117	.078	.050	.100	.067	.044	.069	.047	.031	.040	.028	.018	.013	.009	.006	
7.0	.110	.070	.042	.095	.061	.037	.066	.043	.026	.038	.025	.016	.012	.008	.005	
8.0	.105	.064	.036	.090	.056	.032	.062	.039	.022	.036	.023	.013	.012	.008	.004	
9.0	.099	.059	.031	.086	.051	.027	.059	.036	.019	.035	.021	.012	.011	.007	.004	
10.0	.095	.054	.028	.082	.047	.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:0.1470A P:31.70W PF:0.9560 Freq:50.00Hz Lamp Flux:2673.62x1 lm											
NAME: DP145RW-WF01-32G30					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.:					SUR.:140			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	14.1	15.1	14.4	15.2	15.4	13.8	14.8	14.0	14.9	15.1	
	3H	14.1	14.9	14.3	15.1	15.3	13.8	14.6	14.0	14.8	15.0
	4H	14.1	14.9	14.3	15.1	15.3	13.7	14.5	14.0	14.8	15.0
	6H	14.1	14.8	14.4	15.1	15.3	13.7	14.5	14.0	14.7	15.0
	8H	14.1	14.8	14.4	15.1	15.3	13.7	14.4	14.0	14.7	14.9
	12H	14.1	14.8	14.4	15.1	15.3	13.7	14.4	14.0	14.6	14.9
4H	2H	13.9	14.7	14.2	15.0	15.2	13.6	14.4	13.9	14.6	14.9
	3H	13.9	14.6	14.2	14.9	15.1	13.6	14.3	13.9	14.6	14.8
	4H	13.9	14.6	14.3	14.9	15.2	13.6	14.2	13.9	14.5	14.8
	6H	14.0	14.5	14.4	14.9	15.2	13.6	14.2	14.0	14.5	14.9
	8H	14.0	14.5	14.4	14.9	15.3	13.6	14.1	14.0	14.5	14.9
	12H	14.1	14.6	14.5	14.9	15.3	13.6	14.1	14.0	14.5	14.9
8H	4H	13.8	14.4	14.2	14.7	15.1	13.5	14.1	13.9	14.4	14.8
	6H	14.0	14.4	14.4	14.8	15.2	13.6	14.0	14.0	14.4	14.8
	8H	14.1	14.4	14.5	14.9	15.3	13.6	14.0	14.1	14.4	14.9
	12H	14.2	14.5	14.7	15.0	15.4	13.7	14.0	14.1	14.4	14.9
12H	4H	13.8	14.3	14.2	14.7	15.0	13.5	14.0	13.9	14.3	14.7
	6H	13.9	14.3	14.4	14.7	15.2	13.6	14.0	14.0	14.4	14.8
	8H	14.1	14.4	14.5	14.8	15.3	13.6	13.9	14.1	14.4	14.9
Variations with the observer position at spacings:											
S = 1.0H	+ 2.8 / - 4.3					+ 2.7 / - 4.6					
1.5H	+ 5.1 / - 4.1					+ 5.0 / - 4.2					
2.0H	+ 2.1 / - 0.9					+ 2.1 / - 1.0					

CIE Pub.117, 2674 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.4)

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:0.1470A P:31.70W PF:0.9560 Freq:50.00Hz Lamp Flux:2673.62x1 lm		
NAME: DP145RW-WF01-32G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:140	Shielding Angle:

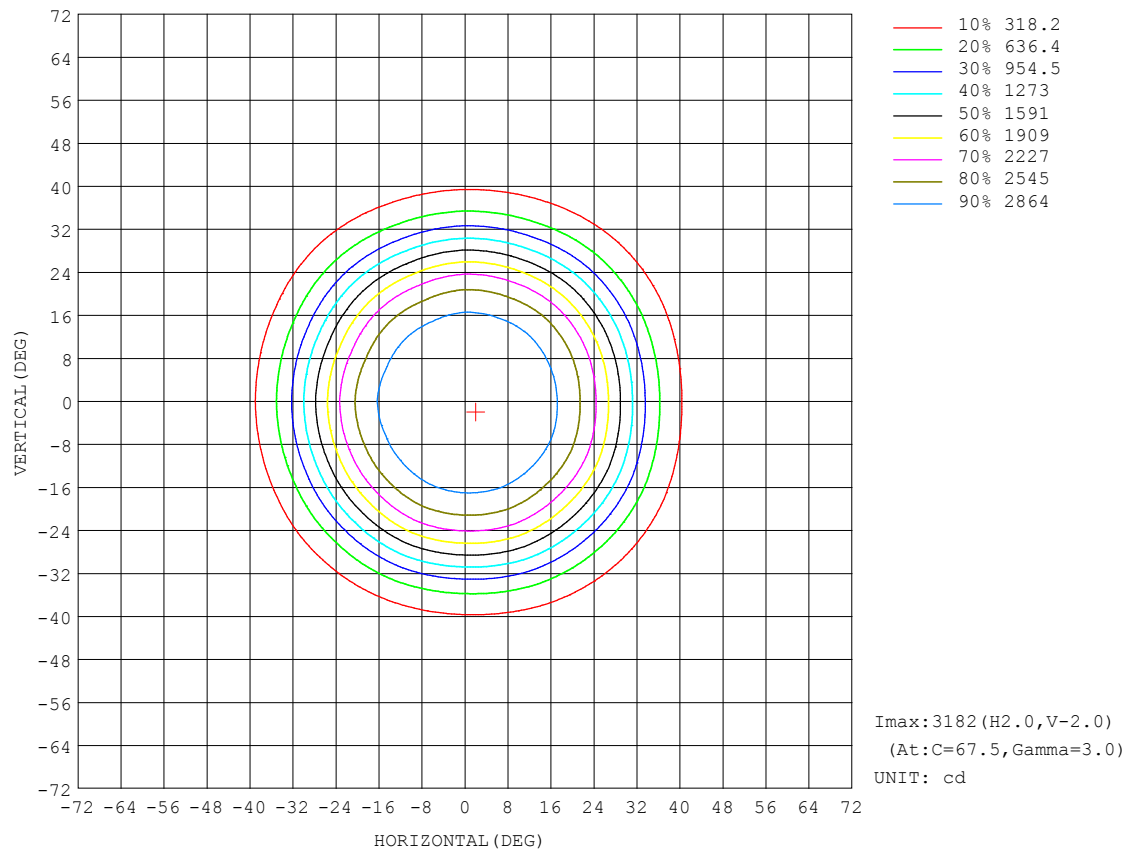
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	88	81	77	87	81	77	86	81	77	74
0.80	95	89	85	94	89	85	93	88	85	81
1.00	99	94	90	98	93	90	97	93	89	85
1.25	103	98	94	102	97	94	100	96	93	89
1.50	106	101	98	105	100	97	102	99	96	92
2.00	108	104	101	107	103	100	104	101	99	93
2.50	110	106	103	108	105	102	105	103	100	94
3.00	112	108	105	110	107	104	106	104	102	96
4.00	114	111	109	112	109	107	108	106	105	97
5.00	115	113	111	113	111	109	109	107	106	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:0.1470A P:31.70W PF:0.9560 Freq:50.00Hz Lamp Flux:2673.62x1 lm		
NAME: DP145RW-WF01-32G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:140	Shielding Angle:



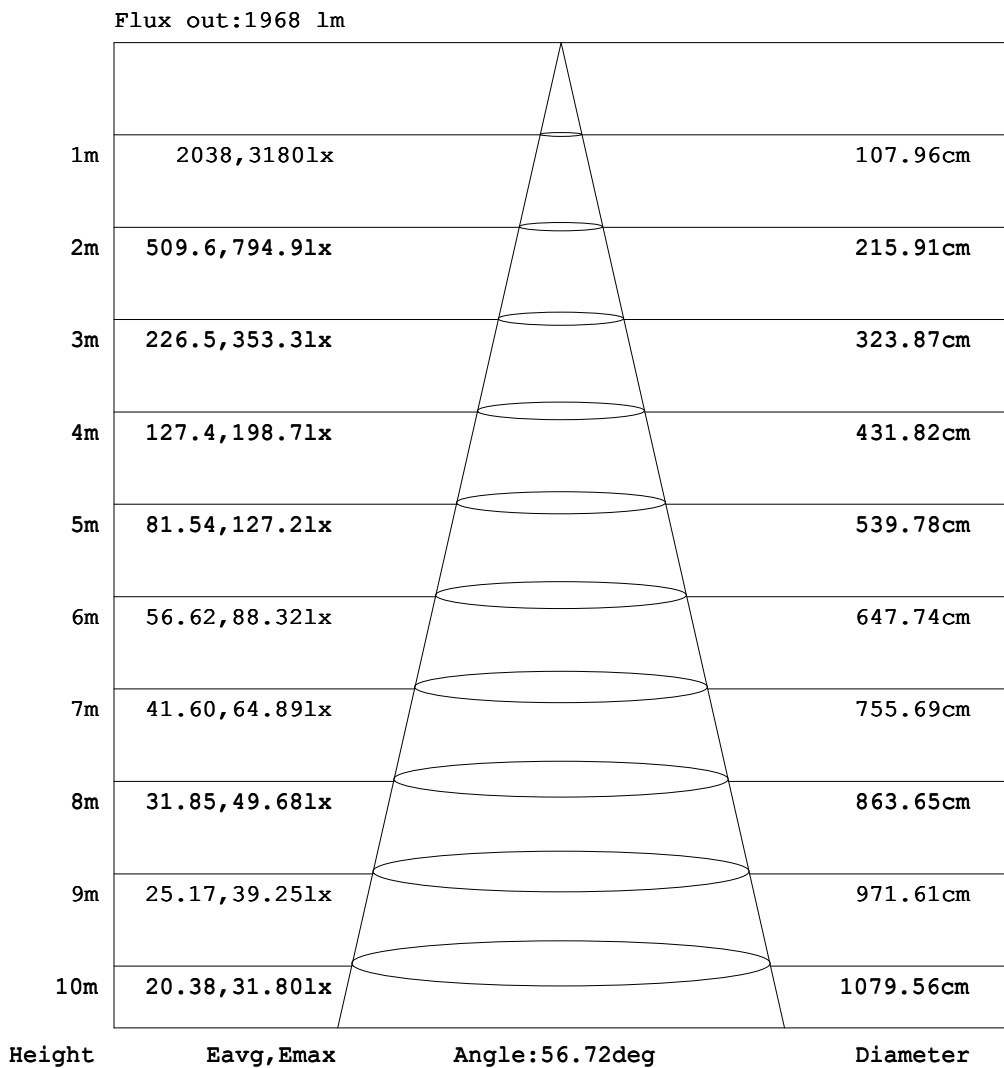
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZR  
Test Date:2021-07-16

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:0.1470A P:31.70W PF:0.9560 Freq:50.00Hz Lamp Flux:2673.62x1 lm		
NAME: DP145RW-WF01-32G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:140	Shielding Angle:



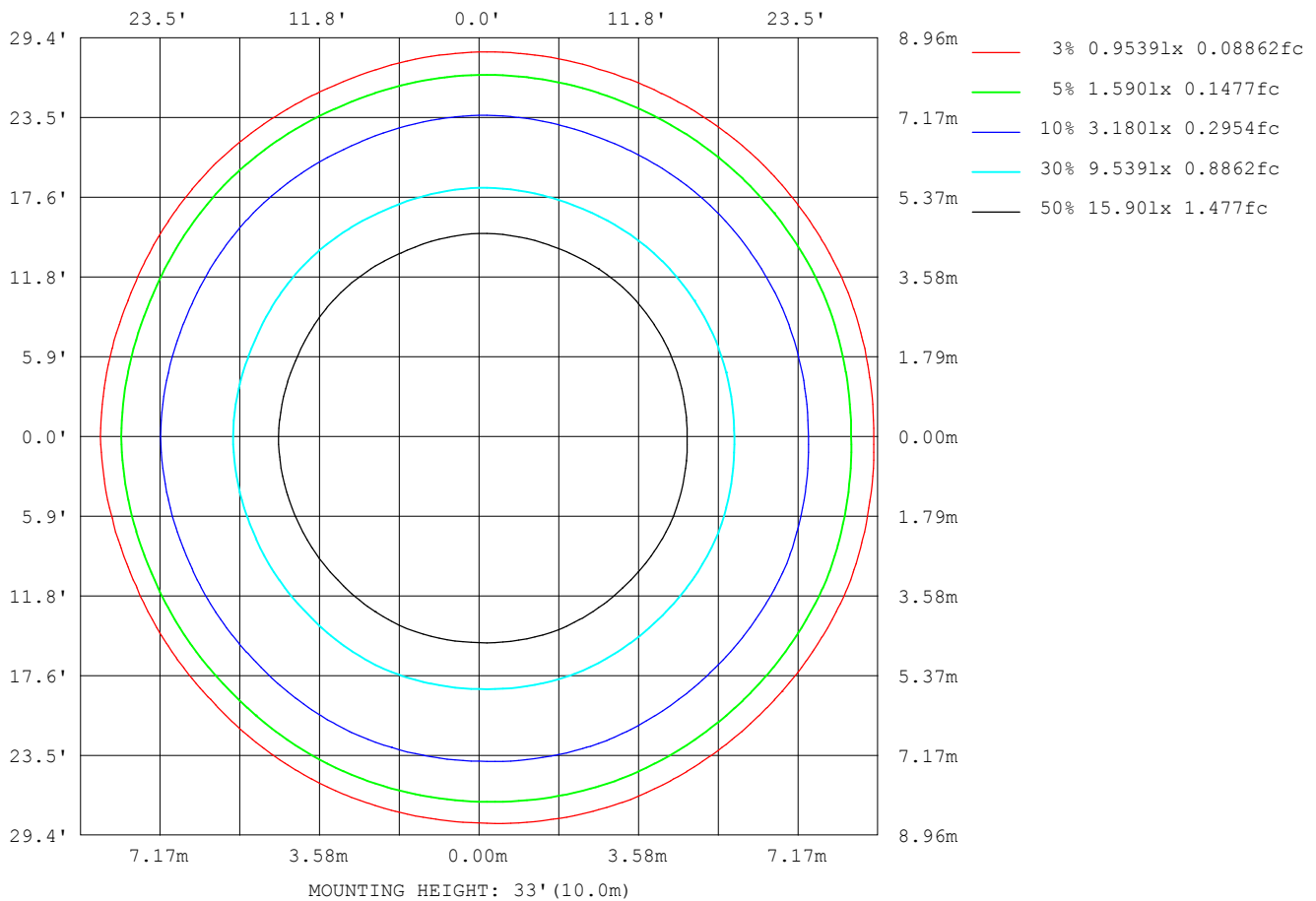
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.1470A P:31.70W PF:0.9560 Freq:50.00Hz Lamp Flux:2673.62x1 lm		
NAME: DP145RW-WF01-32G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:140	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:0.1470A P:31.70W PF:0.9560 Freq:50.00Hz Lamp Flux:2673.62x1 lm		
NAME: DP145RW-WF01-32G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:140	Shielding Angle:

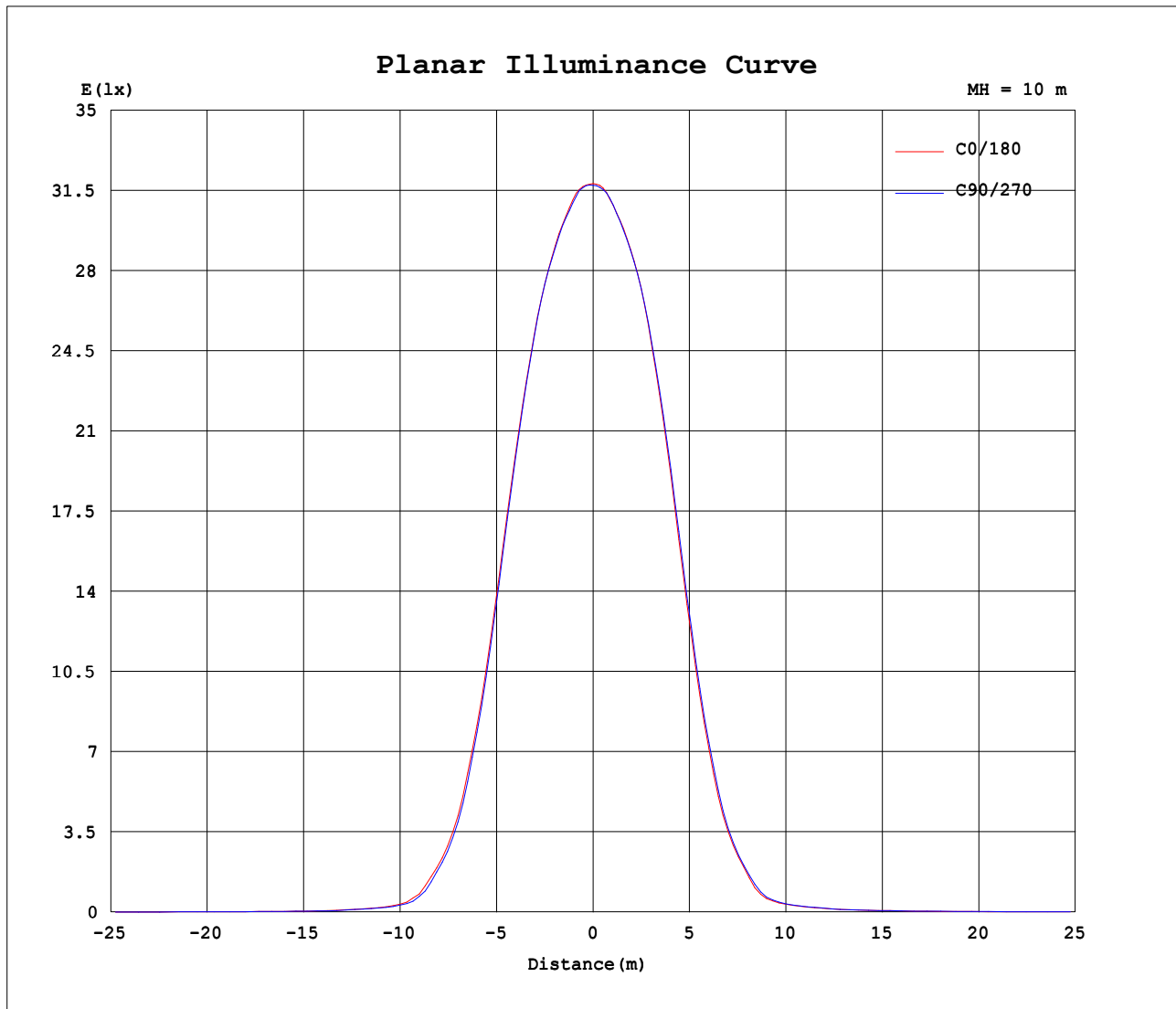
AvgL	cd/m2
L_0~180 (65) av	3533
L_0~180 (75) av	3737
L_0~180 (85) av	6423
L_90~270 (65) av	3549
L_90~270 (75) av	3652
L_90~270 (85) av	4884
L_45 (65) av	3553
L_45 (75) av	3758
L_45 (85) av	5357

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:

```