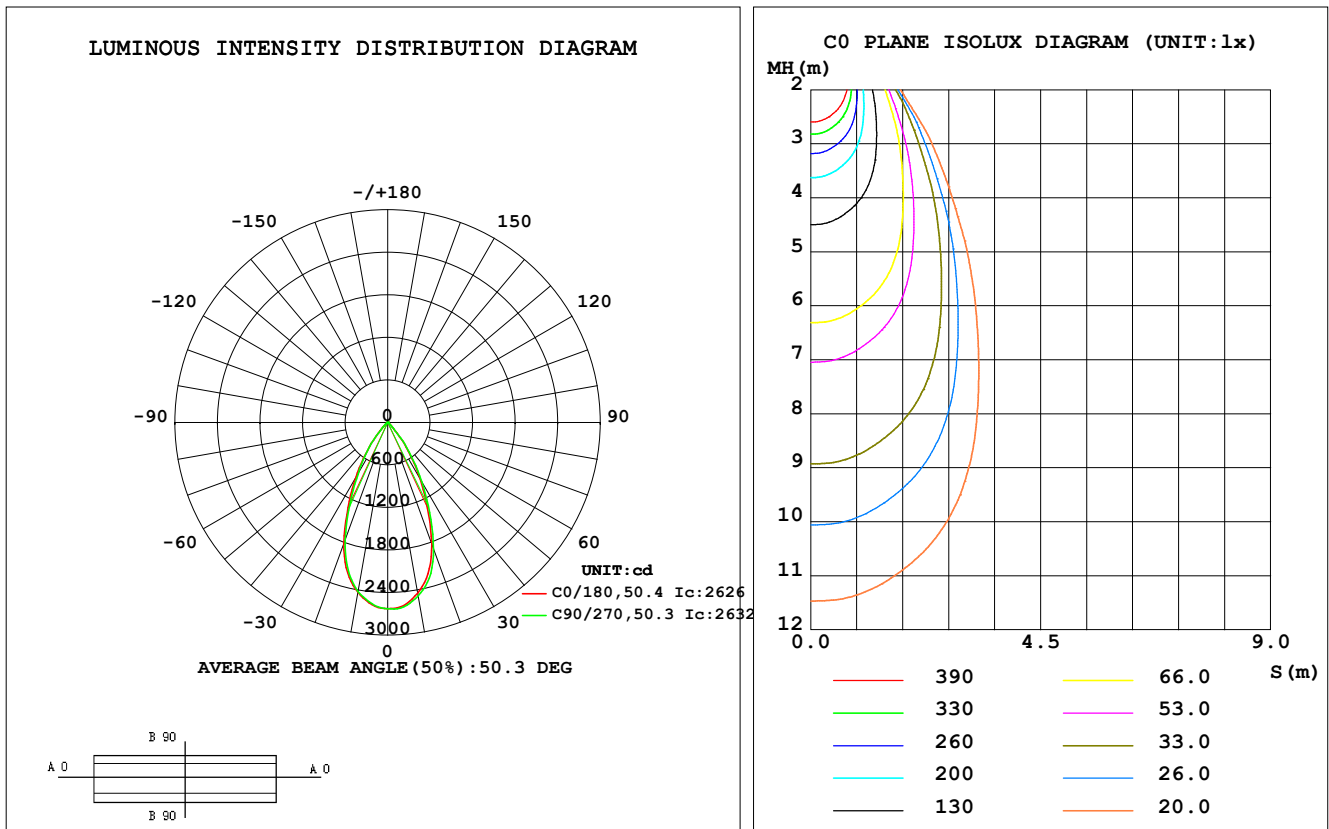


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:224.8V I:0.1120A P:23.90W PF:0.9530 Freq:50.00Hz Lamp Flux:1931.38x1 lm					
NAME: DP125RW-WF02-24G30			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.:			SUR.:120		Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 80.81 lm/W
MODEL	3000K CRI90	I <sub>max</sub> (cd)	2632	S/MH(C0/180)	0.79	
NOMINAL POWER(W)	24	LOR(%)	100.0	S/MH(C90/270)	0.76	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1931.4	η UP,DN(C0-180)	0.0,50.8	
NOMINAL FLUX(lm)	1931.38	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.2	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75	
TEST VOLTAGE(V)	36	η down(%)	100.0	CIBSE SHR MAX	0.80	



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	2444	2469	2484	2461	2432	2414	2420	2434	0- 10	242.3	242.3	12.5,12.5
20	1821	1882	1898	1873	1811	1774	1761	1811	10- 20	610.3	852.5	44.1,44.1
30	915.8	961.0	963.2	928.3	909.0	865.7	839.0	893.6	20- 30	611.1	1464	75.8,75.8
40	265.2	289.2	290.4	265.6	261.1	238.5	246.1	259.5	30- 40	349.0	1813	93.9,93.9
50	35.71	36.42	36.81	37.77	49.77	47.50	47.33	50.68	40- 50	85.12	1898	98.3,98.3
60	1.825	2.018	2.334	2.247	12.74	12.48	12.45	12.62	50- 60	16.89	1915	99.1,99.1
70	1.988	1.990	1.997	2.016	9.469	9.328	9.322	9.437	60- 70	6.364	1921	99.5,99.5
80	2.424	2.437	2.424	2.438	7.124	6.985	6.967	7.058	70- 80	5.475	1926	99.7,99.7
90	3.198	3.181	3.189	3.203	5.454	5.382	5.366	5.398	80- 90	4.877	1931	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): 1871.2 lm

%lum = 96.9%

%lamp = 96.9%

Conical surface Flux(120deg): 1914.7 lm

%lum = 99.1%

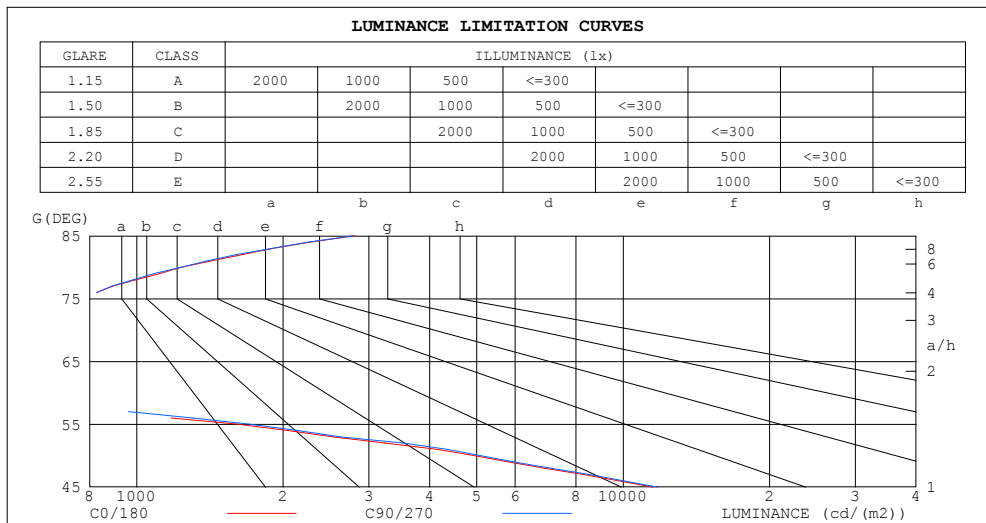
%lamp = 99.1%

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

$\gamma$  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:224.8V I:0.1120A P:23.90W PF:0.9530 Freq:50.00Hz Lamp Flux:1931.38x1 lm		
NAME: DP125RW-WF02-24G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:120	Shielding Angle:



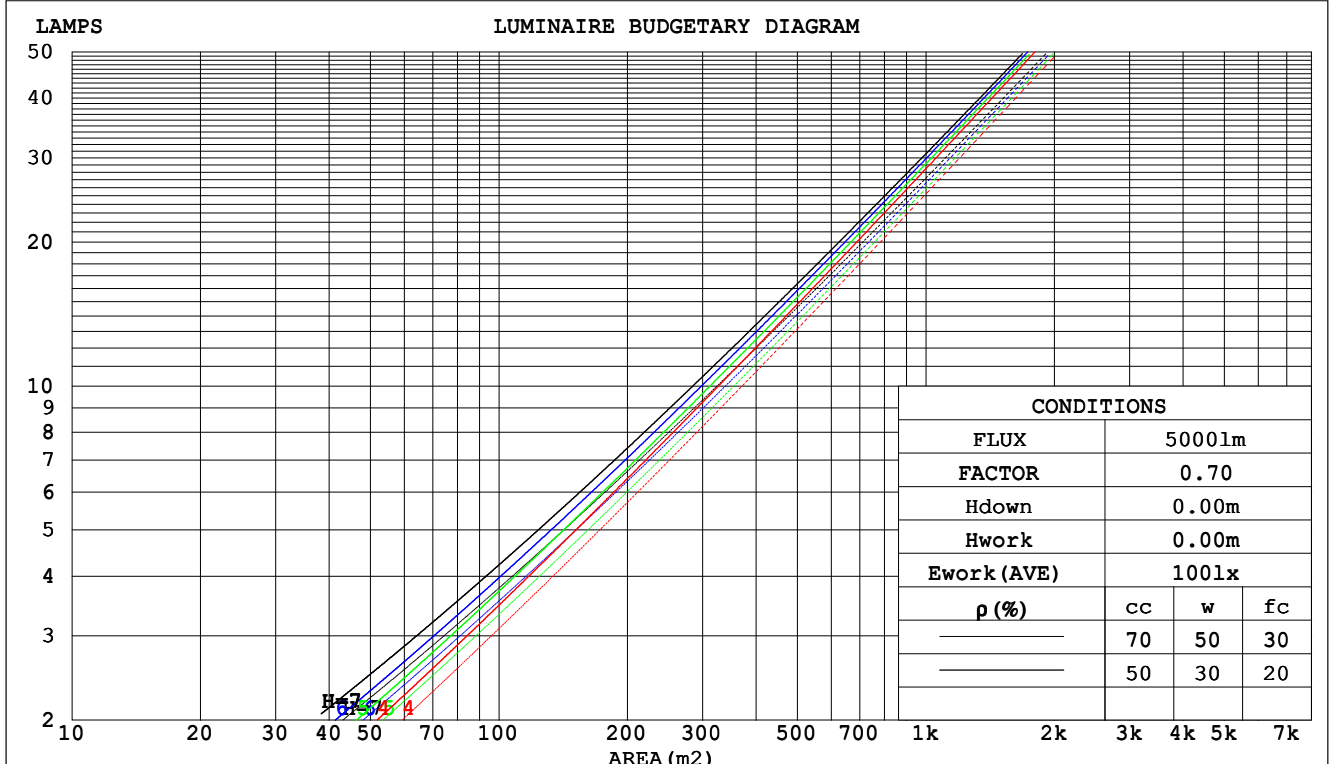
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZR  
Test Date:2021-07-16

$\gamma$  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:224.8V I:0.1120A P:23.90W PF:0.9530 Freq:50.00Hz Lamp Flux:1931.38x1 lm		
NAME: DP125RW-WF02-24G30	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	1.00
1.0	1.11	1.08	1.06	1.09	1.07	1.05	1.05	1.03	1.01	1.01	.00	.98	.98	.96	.95	.94
2.0	1.04	.00	.96	1.02	.98	.95	.99	.96	.93	.96	.93	.91	.93	.91	.89	.88
3.0	.97	.92	.88	.96	.91	.88	.93	.89	.86	.91	.87	.85	.88	.86	.84	.82
4.0	.91	.86	.82	.90	.85	.81	.88	.83	.80	.86	.82	.79	.84	.81	.78	.77
5.0	.85	.80	.76	.85	.79	.75	.83	.78	.75	.81	.77	.74	.80	.76	.73	.72
6.0	.81	.75	.71	.80	.74	.70	.78	.74	.70	.77	.73	.70	.76	.72	.69	.68
7.0	.76	.70	.66	.75	.70	.66	.74	.69	.66	.73	.69	.65	.72	.68	.65	.64
8.0	.72	.66	.62	.71	.66	.62	.70	.65	.62	.69	.65	.62	.68	.64	.61	.60
9.0	.68	.63	.59	.68	.62	.59	.67	.62	.58	.66	.62	.58	.65	.61	.58	.57
10.0	.65	.59	.56	.64	.59	.56	.64	.59	.55	.63	.58	.55	.62	.58	.55	.54



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:224.8V I:0.1120A P:23.90W PF:0.9530 Freq:50.00Hz Lamp Flux:1931.38x1 lm					
NAME: DP125RW-WF02-24G30			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	.175	.100	.032	.169	.096	.031	.156	.090	.029	.144	.083	.027	.134	.078	.025	
2.0	.166	.091	.028	.161	.088	.027	.150	.083	.026	.140	.079	.025	.131	.074	.023	
3.0	.158	.084	.025	.153	.082	.025	.144	.078	.024	.136	.074	.023	.128	.071	.022	
4.0	.150	.078	.023	.146	.076	.023	.138	.073	.022	.131	.070	.021	.124	.067	.021	
5.0	.143	.073	.021	.139	.071	.021	.132	.069	.020	.126	.066	.020	.120	.064	.019	
6.0	.136	.068	.020	.133	.067	.019	.127	.065	.019	.121	.063	.019	.116	.061	.018	
7.0	.130	.064	.018	.127	.063	.018	.122	.062	.018	.117	.060	.017	.112	.058	.017	
8.0	.124	.061	.017	.122	.060	.017	.117	.059	.017	.113	.057	.016	.109	.056	.016	
9.0	.119	.058	.016	.117	.057	.016	.113	.056	.016	.109	.055	.016	.105	.053	.015	
10.0	.114	.055	.015	.112	.054	.015	.109	.053	.015	.105	.052	.015	.102	.051	.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	.146	.135	.125	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.155	.133	.113	.133	.114	.098	.091	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.143	.114	.090	.122	.098	.078	.084	.068	.055	.049	.040	.032	.016	.013	.011	
4.0	.132	.099	.073	.114	.085	.064	.078	.059	.045	.045	.035	.026	.015	.011	.009	
5.0	.124	.087	.060	.106	.075	.052	.073	.053	.037	.042	.031	.022	.014	.010	.007	
6.0	.116	.078	.050	.100	.067	.044	.069	.047	.031	.040	.028	.018	.013	.009	.006	
7.0	.109	.070	.043	.094	.061	.037	.065	.043	.026	.038	.025	.016	.012	.008	.005	
8.0	.104	.064	.037	.089	.055	.032	.062	.039	.023	.036	.023	.013	.012	.008	.004	
9.0	.099	.059	.032	.085	.051	.028	.059	.036	.020	.034	.021	.012	.011	.007	.004	
10.0	.094	.054	.028	.081	.047	.024	.056	.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:224.8V I:0.1120A P:23.90W PF:0.9530 Freq:50.00Hz Lamp Flux:1931.38x1 lm											
NAME: DP125RW-WF02-24G30					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		15.0	15.9	15.2	16.1	16.3	15.3	16.2	15.5	16.4	16.5
	3H	14.8	15.7	15.1	15.9	16.1	15.1	16.0	15.4	16.2	16.4
	4H	14.8	15.6	15.0	15.8	16.0	15.0	15.8	15.3	16.1	16.3
	6H	14.7	15.4	15.0	15.7	15.9	15.0	15.7	15.3	16.0	16.2
	8H	14.7	15.4	15.0	15.6	15.9	14.9	15.6	15.2	15.9	16.2
	12H	14.6	15.3	15.0	15.6	15.9	14.9	15.6	15.2	15.9	16.1
4H	2H	14.8	15.6	15.0	15.8	16.0	15.0	15.8	15.3	16.1	16.3
	3H	14.6	15.3	14.9	15.5	15.8	14.9	15.5	15.2	15.8	16.1
	4H	14.5	15.1	14.8	15.4	15.7	14.8	15.4	15.1	15.7	16.0
	6H	14.4	15.0	14.8	15.3	15.7	14.7	15.2	15.1	15.6	15.9
	8H	14.4	14.9	14.8	15.3	15.6	14.7	15.2	15.1	15.5	15.9
	12H	14.4	14.9	14.8	15.2	15.6	14.7	15.1	15.1	15.5	15.9
8H	4H	14.4	14.9	14.7	15.2	15.6	14.6	15.1	15.0	15.5	15.9
	6H	14.3	14.7	14.7	15.1	15.5	14.6	15.0	15.0	15.4	15.8
	8H	14.3	14.6	14.7	15.1	15.5	14.5	14.9	15.0	15.3	15.8
	12H	14.3	14.6	14.8	15.1	15.5	14.6	14.9	15.0	15.3	15.8
12H	4H	14.3	14.8	14.7	15.1	15.5	14.6	15.0	15.0	15.4	15.8
	6H	14.2	14.6	14.7	15.0	15.5	14.5	14.9	15.0	15.3	15.7
	8H	14.2	14.6	14.7	15.0	15.5	14.5	14.8	15.0	15.3	15.7
Variations with the observer position at spacings:											
S = 1.0H	+ 3.1 / -11.7					+ 3.1 / -11.9					
1.5H	+ 5.5 / -11.0					+ 5.5 / -11.2					
2.0H	+ 6.2 / - 4.8					+ 6.2 / - 5.0					

CIE Pub.117, 1931 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 2.3$ )

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:224.8V I:0.1120A P:23.90W PF:0.9530 Freq:50.00Hz Lamp Flux:1931.38x1 lm		
NAME: DP125RW-WF02-24G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:120	Shielding Angle:

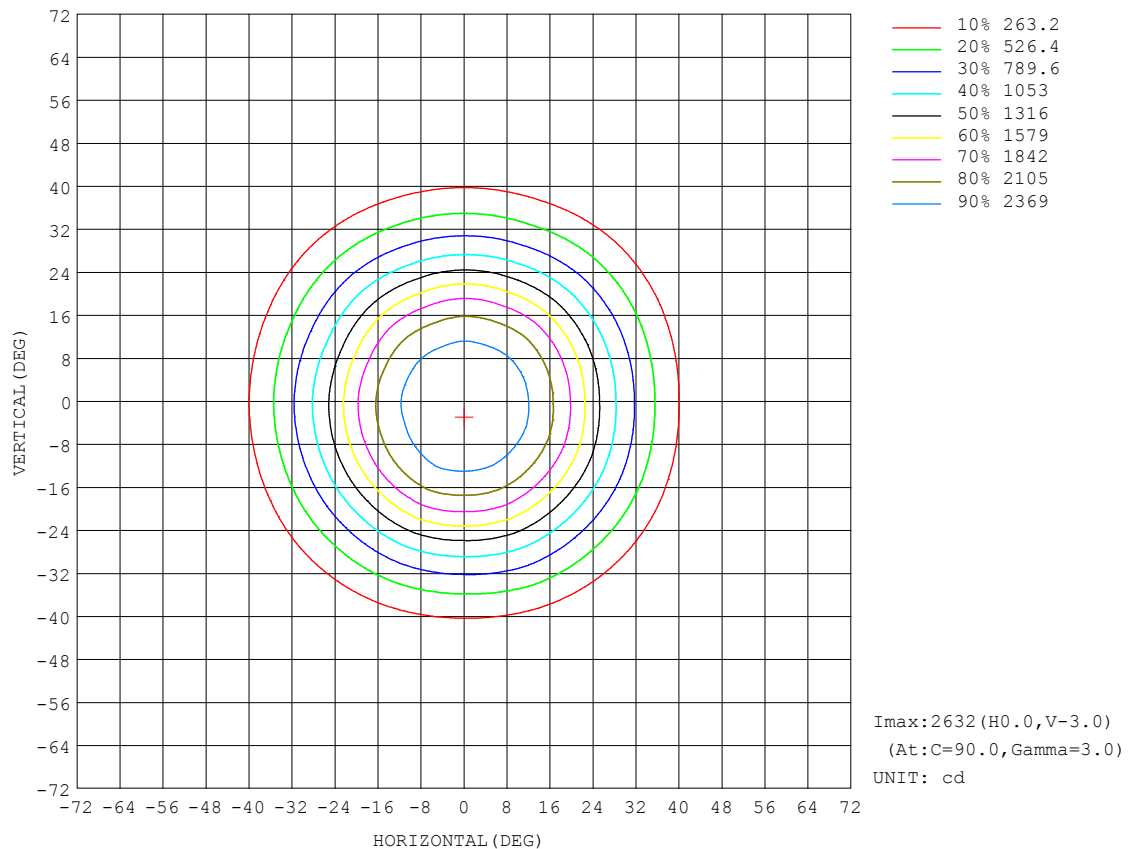
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	88	81	78	87	81	78	86	81	77	74
0.80	95	89	86	94	89	86	93	88	85	82
1.00	100	94	90	99	94	90	97	93	90	86
1.25	103	98	95	102	98	95	100	97	94	90
1.50	106	101	98	105	101	98	103	99	97	92
2.00	109	105	101	107	104	101	105	102	99	94
2.50	110	107	104	109	105	103	106	103	101	95
3.00	112	108	106	110	107	105	107	104	102	96
4.00	114	111	109	112	109	107	108	106	105	98
5.00	115	113	111	113	111	109	109	108	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:224.8V I:0.1120A P:23.90W PF:0.9530 Freq:50.00Hz Lamp Flux:1931.38x1 lm		
NAME: DP125RW-WF02-24G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:120	Shielding Angle:



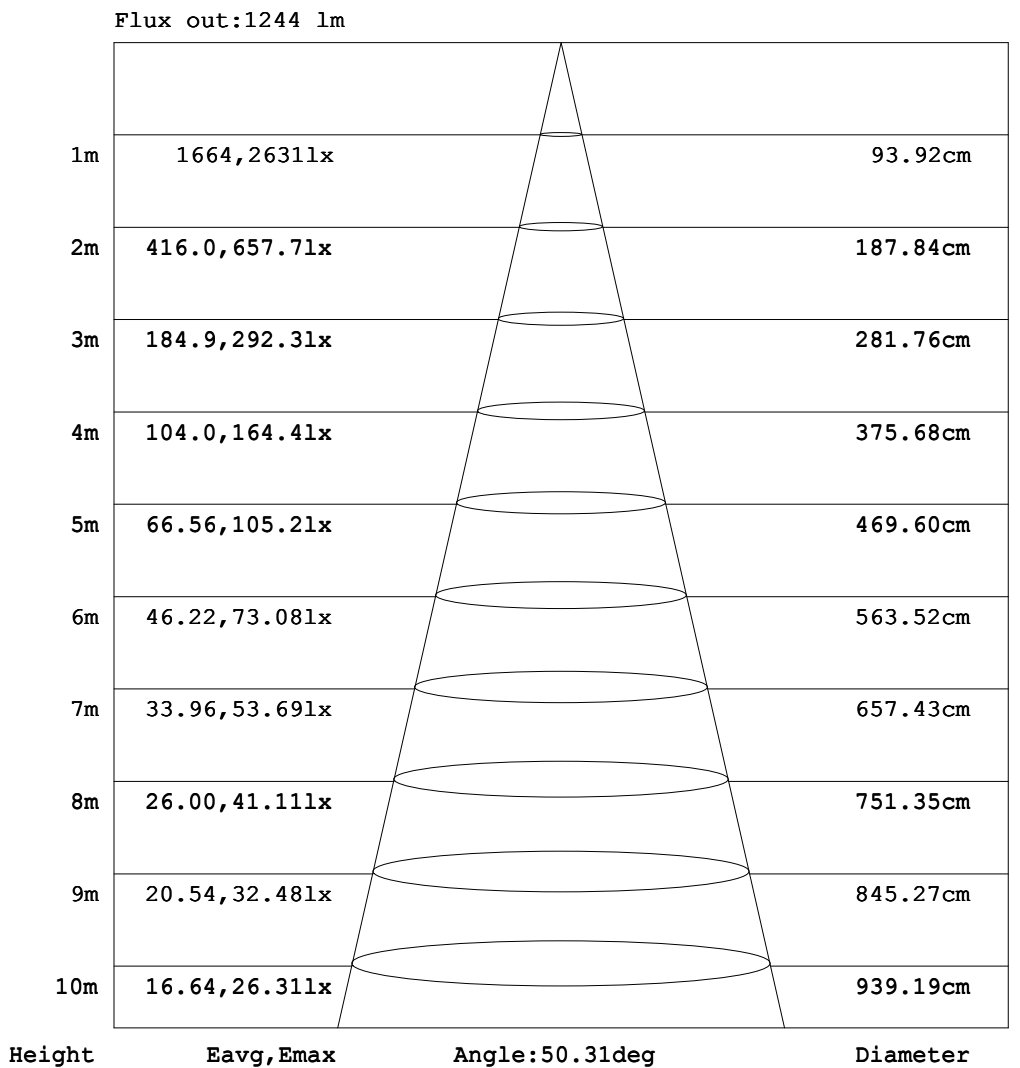
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZR  
Test Date:2021-07-16

$\gamma$  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:



### AAI Figure

Test:U:224.8V I:0.1120A P:23.90W PF:0.9530 Freq:50.00Hz Lamp Flux:1931.38x1 lm		
NAME: DP125RW-WF02-24G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:120	Shielding Angle:



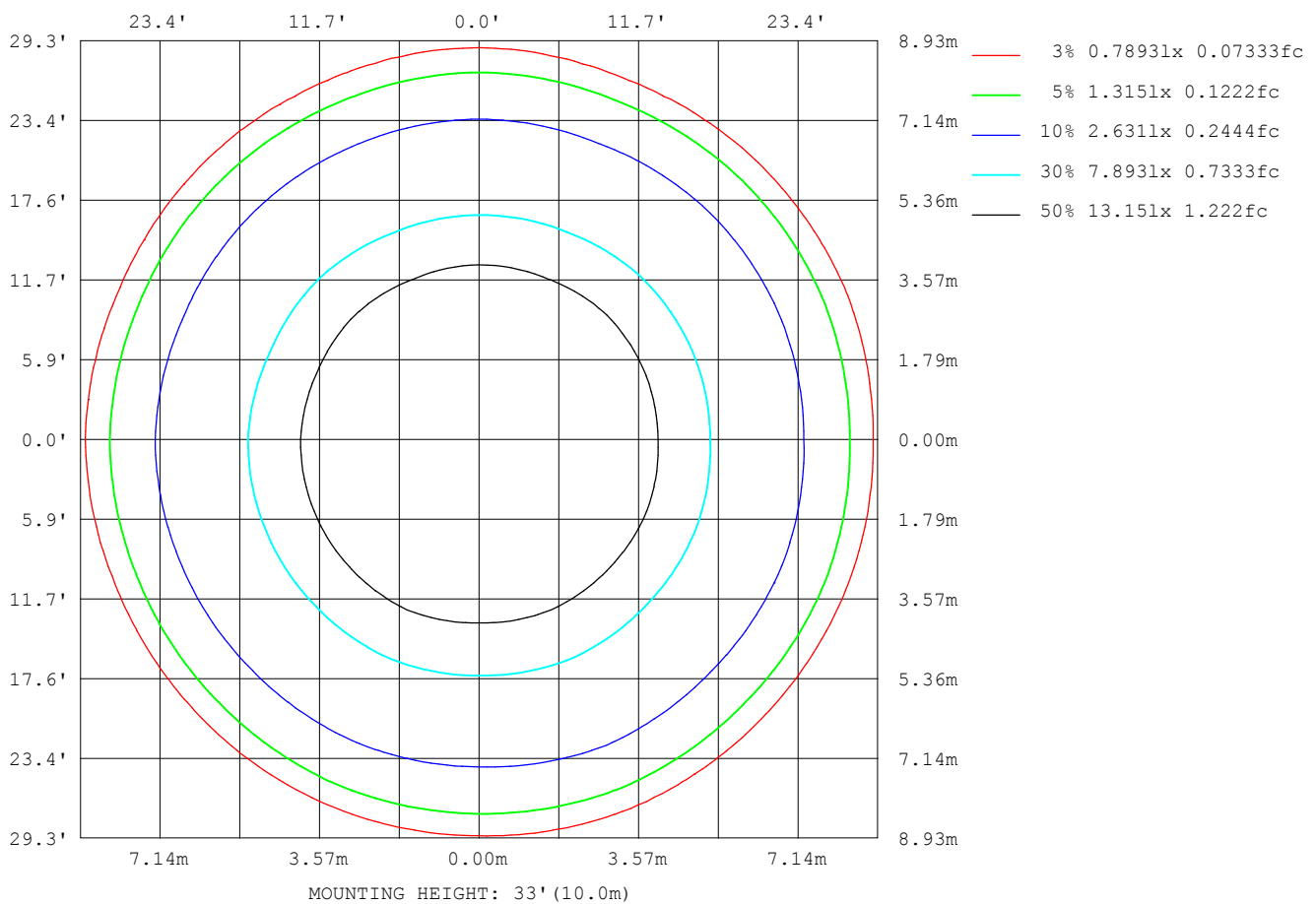
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:224.8V I:0.1120A P:23.90W PF:0.9530 Freq:50.00Hz Lamp Flux:1931.38x1 lm		
NAME: DP125RW-WF02-24G30	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

$\gamma$  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:

## LED Avg.L Report

Test:U:224.8V I:0.1120A P:23.90W PF:0.9530 Freq:50.00Hz Lamp Flux:1931.38x1 lm		
NAME: DP125RW-WF02-24G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:120	Shielding Angle:

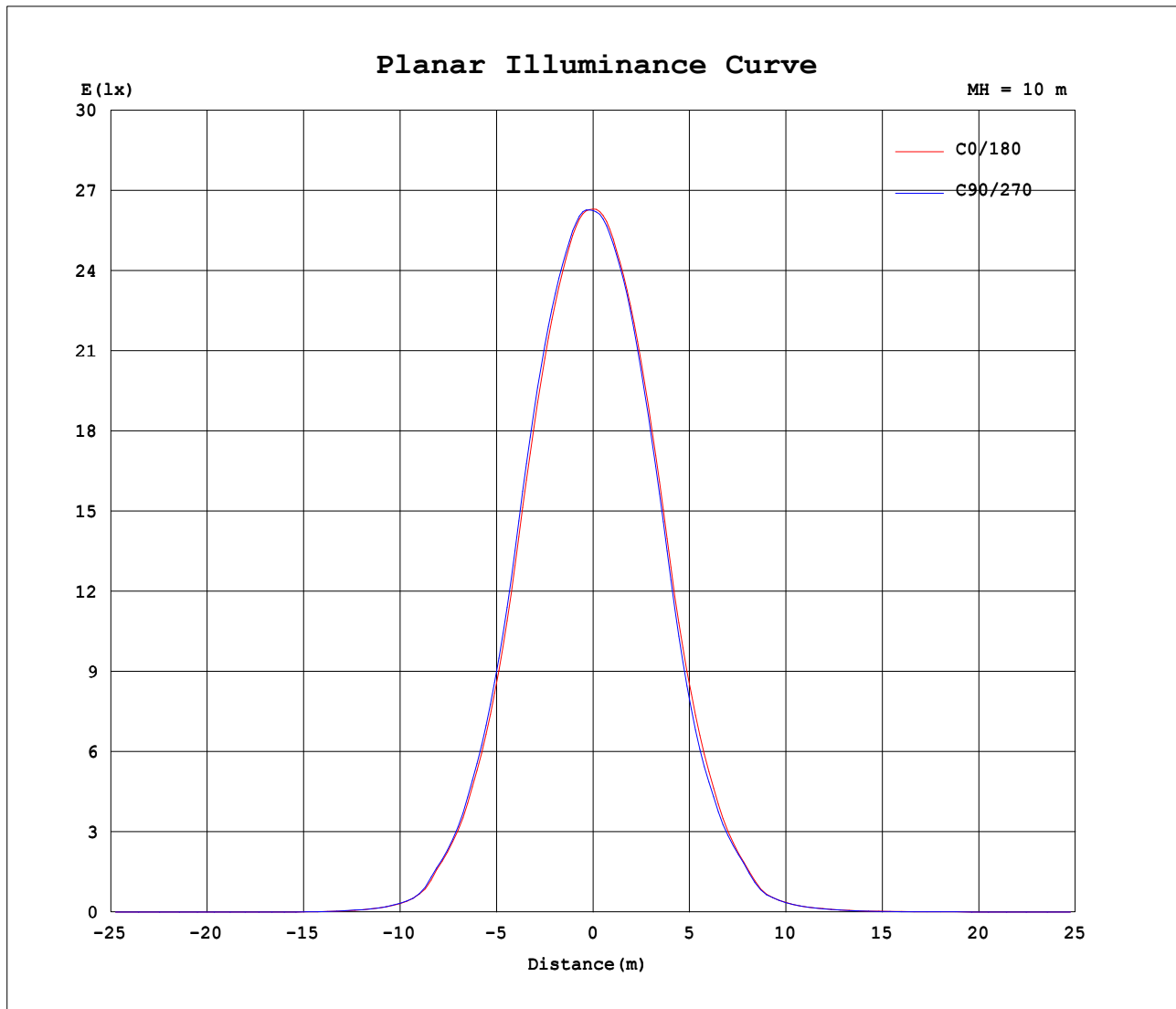
AvgL	cd/m2
L_0~180 (65) av	1344
L_0~180 (75) av	1768
L_0~180 (85) av	4533
L_90~270 (65) av	1334
L_90~270 (75) av	1743
L_90~270 (85) av	4461
L_45 (65) av	1338
L_45 (75) av	1755
L_45 (85) av	4491

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:

```

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