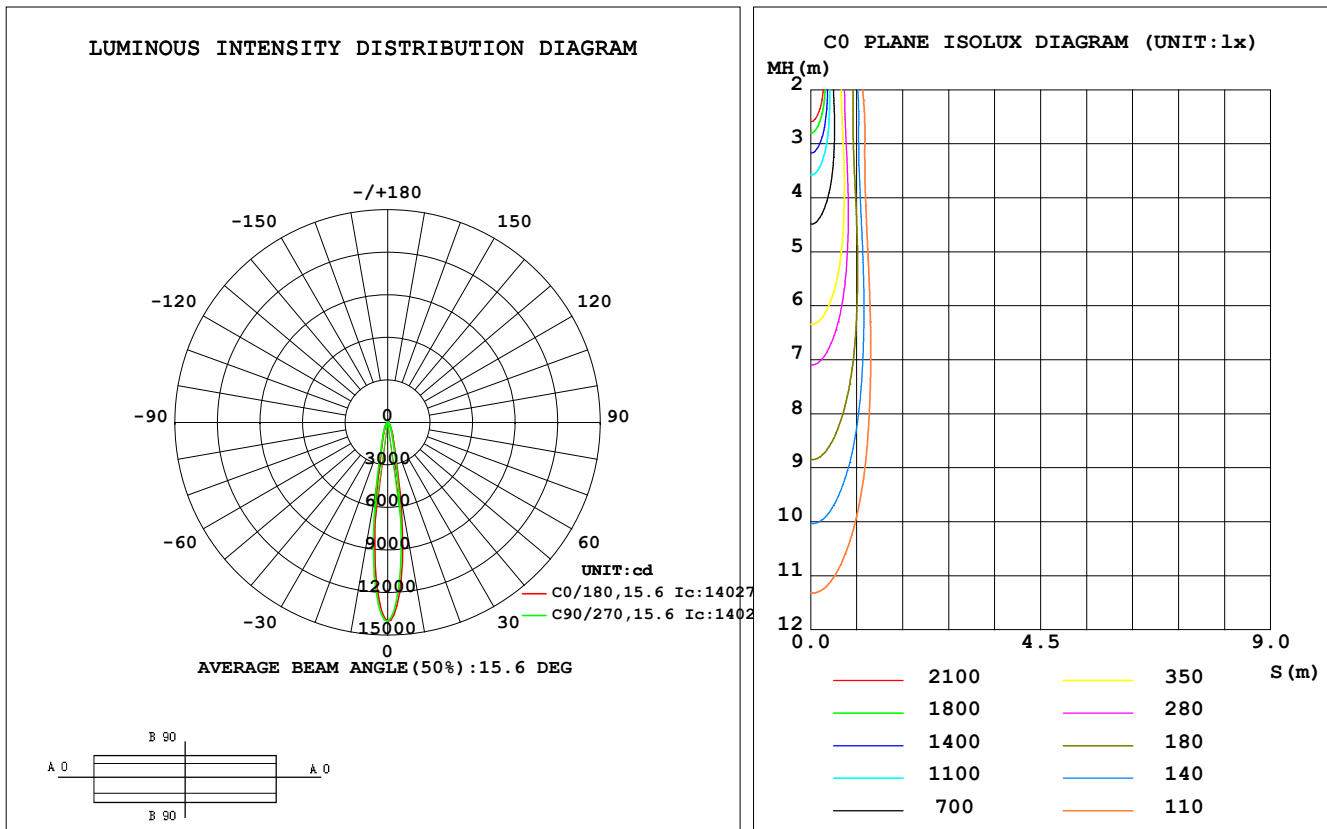


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:224.8V I:0.1110A P:23.80W PF:0.9520 Freq:50.00Hz Lamp Flux:1959.31x1 lm					
NAME: DP125RW-S01-24G30		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.:	
MFR.:		SUR.:120		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 82.32 lm/W
MODEL	3000K CRI90	I _{max} (cd)	14027	S/MH(C0/180)	0.25	
NOMINAL POWER(W)	24	LOR(%)	100.0	S/MH(C90/270)	0.28	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1959.3	η UP,DN(C0-180)	0.0,49.1	
NOMINAL FLUX(lm)	1959.31	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.9	
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	510.5	484.6	425.1	383.3	399.6	412.2	470.1	536.2	0- 10	802.6	802.6	41,41
20	112.2	105.5	94.50	88.30	89.01	91.55	101.0	115.3	10- 20	535.9	1338	68.3,68.3
30	47.57	43.95	39.30	36.34	38.73	39.42	43.29	50.70	20- 30	300.4	1639	83.6,83.6
40	21.78	20.06	17.77	15.90	17.62	18.41	20.24	23.43	30- 40	181.7	1821	92.9,92.9
50	3.476	3.245	2.950	2.779	4.340	4.430	4.747	5.100	40- 50	76.22	1897	96.8,96.8
60	1.825	1.804	1.766	1.752	2.749	2.768	2.847	2.938	50- 60	26.25	1923	98.2,98.2
70	1.130	1.118	1.102	1.096	1.731	1.746	1.789	1.836	60- 70	18.35	1941	99.1,99.1
80	0.6538	0.6219	0.4827	0.5956	0.9996	1.011	0.9635	1.080	70- 80	11.75	1953	99.7,99.7
90	0.3301	0.3322	0.3363	0.3456	0.5169	0.5197	0.5300	0.5448	80- 90	6.114	1959	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:×10cd									UNIT:lm		

Conical surface Flux(90deg): 1872.5 lm

%lum = 95.6%

%lamp = 95.6%

Conical surface Flux(120deg): 1923.1 lm

%lum = 98.2%

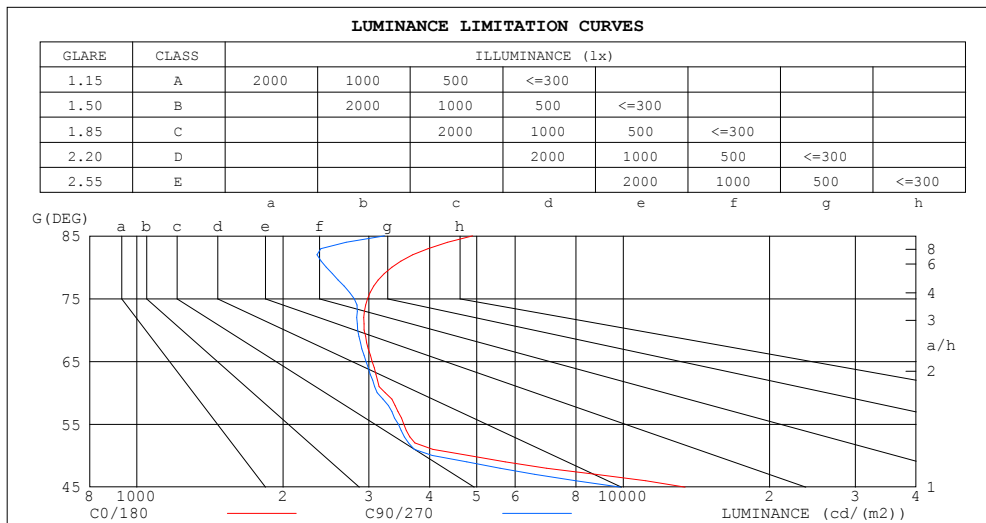
%lamp = 98.2%

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

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:224.8V I:0.1110A P:23.80W PF:0.9520 Freq:50.00Hz Lamp Flux:1959.31x1 lm		
NAME: DP125RW-S01-24G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:120	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4904	3231
80	3345	2455
75	2983	2797
70	2935	2846
65	3046	2959
60	3242	3120
55	3540	3449
50	4804	4052
45	13413	9871

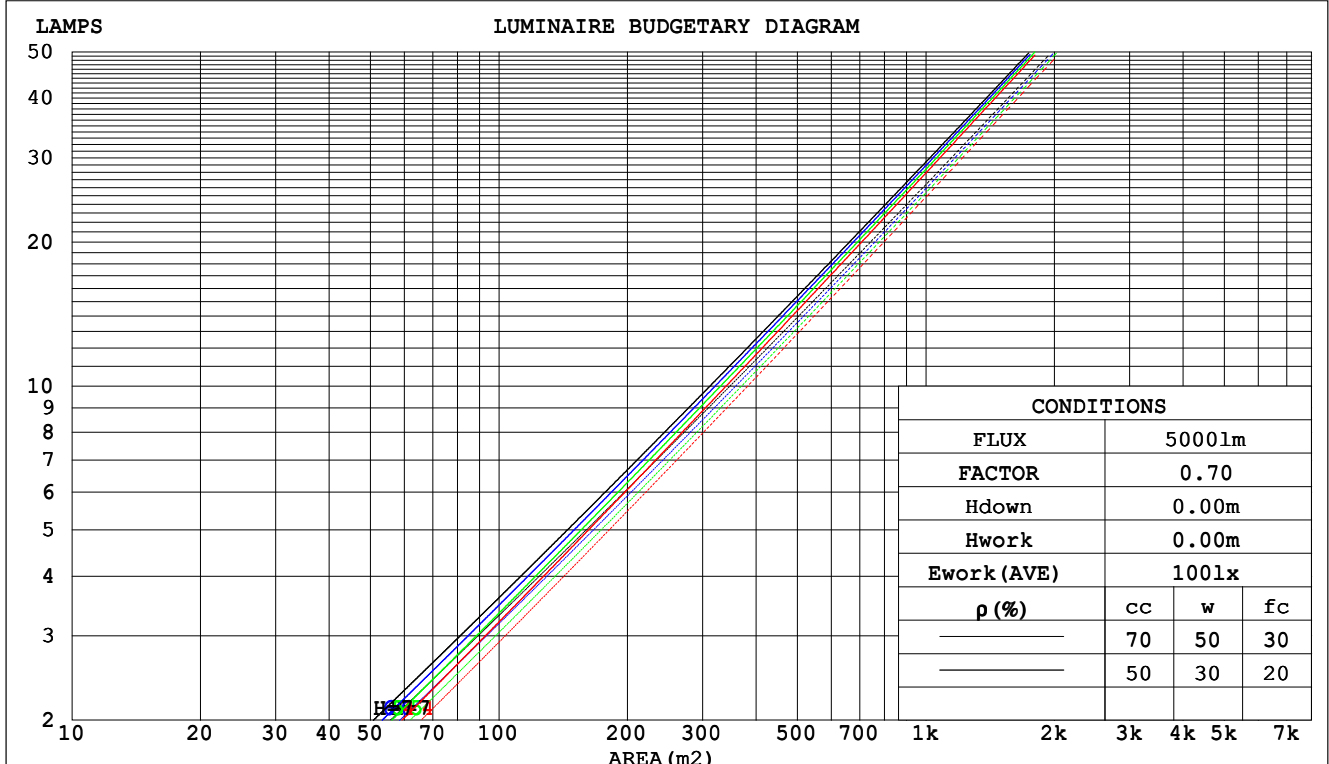
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZR
Test Date:2021-07-16

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:224.8V I:0.1110A P:23.80W PF:0.9520 Freq:50.00Hz Lamp Flux:1959.31x1 lm		
NAME: DP125RW-S01-24G30	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	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.04	1.03	1.02	1.01	1.00	.99	.98	.97	.95
2.0	1.06	1.03	.90	1.04	1.01	.99	1.01	.99	.97	.98	.96	.95	.96	.94	.93	.91
3.0	1.01	.97	.94	.90	.96	.93	.97	.94	.92	.95	.92	.90	.93	.91	.89	.87
4.0	.96	.92	.89	.95	.91	.88	.93	.90	.87	.91	.89	.86	.90	.87	.85	.84
5.0	.93	.88	.85	.92	.87	.84	.90	.86	.84	.88	.85	.83	.87	.84	.82	.81
6.0	.89	.84	.81	.88	.84	.81	.87	.83	.80	.86	.82	.80	.84	.82	.79	.78
7.0	.86	.81	.78	.85	.81	.78	.84	.80	.78	.83	.80	.77	.82	.79	.77	.76
8.0	.83	.79	.76	.83	.78	.75	.82	.78	.75	.81	.77	.75	.80	.77	.75	.73
9.0	.81	.76	.73	.80	.76	.73	.79	.76	.73	.79	.75	.73	.78	.75	.72	.71
10.0	.78	.74	.71	.78	.74	.71	.77	.73	.71	.77	.73	.71	.76	.73	.70	.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:224.8V I:0.1110A P:23.80W PF:0.9520 Freq:50.00Hz Lamp Flux:1959.31x1 lm					
NAME: DP125RW-S01-24G30			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	.152	.087	.027	.146	.083	.026	.133	.076	.024	.122	.070	.023	.111	.064	.021	
2.0	.141	.077	.024	.136	.075	.023	.126	.070	.022	.116	.065	.020	.107	.061	.019	
3.0	.132	.070	.021	.127	.068	.020	.118	.064	.019	.110	.060	.019	.103	.057	.018	
4.0	.123	.064	.019	.119	.062	.018	.112	.059	.018	.105	.056	.017	.099	.054	.016	
5.0	.115	.059	.017	.112	.058	.017	.106	.055	.016	.100	.053	.016	.095	.050	.015	
6.0	.109	.055	.016	.106	.054	.015	.100	.052	.015	.095	.050	.015	.091	.048	.014	
7.0	.103	.051	.014	.100	.050	.014	.096	.048	.014	.091	.047	.014	.087	.045	.013	
8.0	.098	.048	.013	.095	.047	.013	.091	.046	.013	.087	.044	.013	.084	.043	.013	
9.0	.093	.045	.013	.091	.044	.012	.087	.043	.012	.084	.042	.012	.080	.041	.012	
10.0	.088	.042	.012	.087	.042	.012	.083	.041	.012	.080	.040	.011	.077	.039	.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	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.152	.133	.116	.130	.114	.100	.089	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.138	.113	.094	.118	.098	.081	.081	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.126	.098	.077	.108	.085	.067	.074	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.116	.086	.064	.099	.074	.056	.068	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.107	.076	.054	.092	.066	.047	.063	.046	.033	.037	.027	.020	.012	.009	.007	
7.0	.099	.068	.046	.085	.059	.040	.059	.041	.029	.034	.024	.017	.011	.008	.006	
8.0	.093	.061	.040	.080	.053	.035	.055	.037	.025	.032	.022	.015	.010	.007	.005	
9.0	.087	.056	.035	.075	.048	.030	.052	.034	.022	.030	.020	.013	.010	.007	.004	
10.0	.082	.051	.031	.070	.044	.027	.049	.031	.019	.029	.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:224.8V I:0.1110A P:23.80W PF:0.9520 Freq:50.00Hz Lamp Flux:1959.31x1 lm											
NAME: DP125RW-S01-24G30					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		12.2	12.9	12.4	13.1	13.2	11.4	12.1	11.6	12.3	12.4
	3H	12.3	13.0	12.6	13.2	13.4	11.6	12.2	11.8	12.4	12.6
	4H	12.4	13.1	12.7	13.3	13.5	11.7	12.3	11.9	12.5	12.7
	6H	12.5	13.2	12.8	13.4	13.6	11.8	12.4	12.1	12.6	12.9
	8H	12.6	13.2	12.9	13.5	13.7	11.8	12.4	12.1	12.6	12.9
	12H	12.7	13.3	13.0	13.5	13.8	11.8	12.4	12.1	12.6	12.9
4H	2H	12.1	12.8	12.4	13.0	13.2	11.3	12.0	11.6	12.2	12.4
	3H	12.3	12.9	12.6	13.2	13.4	11.6	12.2	11.9	12.4	12.7
	4H	12.5	13.0	12.8	13.3	13.6	11.8	12.3	12.2	12.6	12.9
	6H	12.7	13.2	13.1	13.5	13.9	12.0	12.5	12.4	12.8	13.1
	8H	12.9	13.3	13.2	13.6	14.0	12.0	12.5	12.4	12.8	13.2
	12H	13.0	13.4	13.4	13.8	14.2	12.1	12.5	12.5	12.9	13.3
8H	4H	12.5	12.9	12.9	13.3	13.6	11.9	12.3	12.2	12.6	13.0
	6H	12.8	13.2	13.3	13.6	14.0	12.1	12.5	12.5	12.9	13.3
	8H	13.1	13.4	13.5	13.8	14.2	12.2	12.5	12.7	13.0	13.4
	12H	13.4	13.6	13.8	14.1	14.5	12.3	12.6	12.8	13.1	13.5
12H	4H	12.5	12.9	12.9	13.2	13.6	11.8	12.2	12.2	12.6	13.0
	6H	12.8	13.1	13.3	13.6	14.0	12.1	12.5	12.6	12.9	13.3
	8H	13.1	13.4	13.6	13.8	14.3	12.3	12.5	12.7	13.0	13.5
Variations with the observer position at spacings:											
S = 1.0H	+ 1.7 / - 2.8					+ 1.6 / - 2.7					
1.5H	+ 3.5 / - 3.0					+ 3.3 / - 2.9					
2.0H	+ 3.7 / - 1.0					+ 2.8 / - 0.9					

CIE Pub.117, 1959 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:0.1110A P:23.80W PF:0.9520 Freq:50.00Hz Lamp Flux:1959.31x1 lm		
NAME: DP125RW-S01-24G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:120	Shielding Angle:

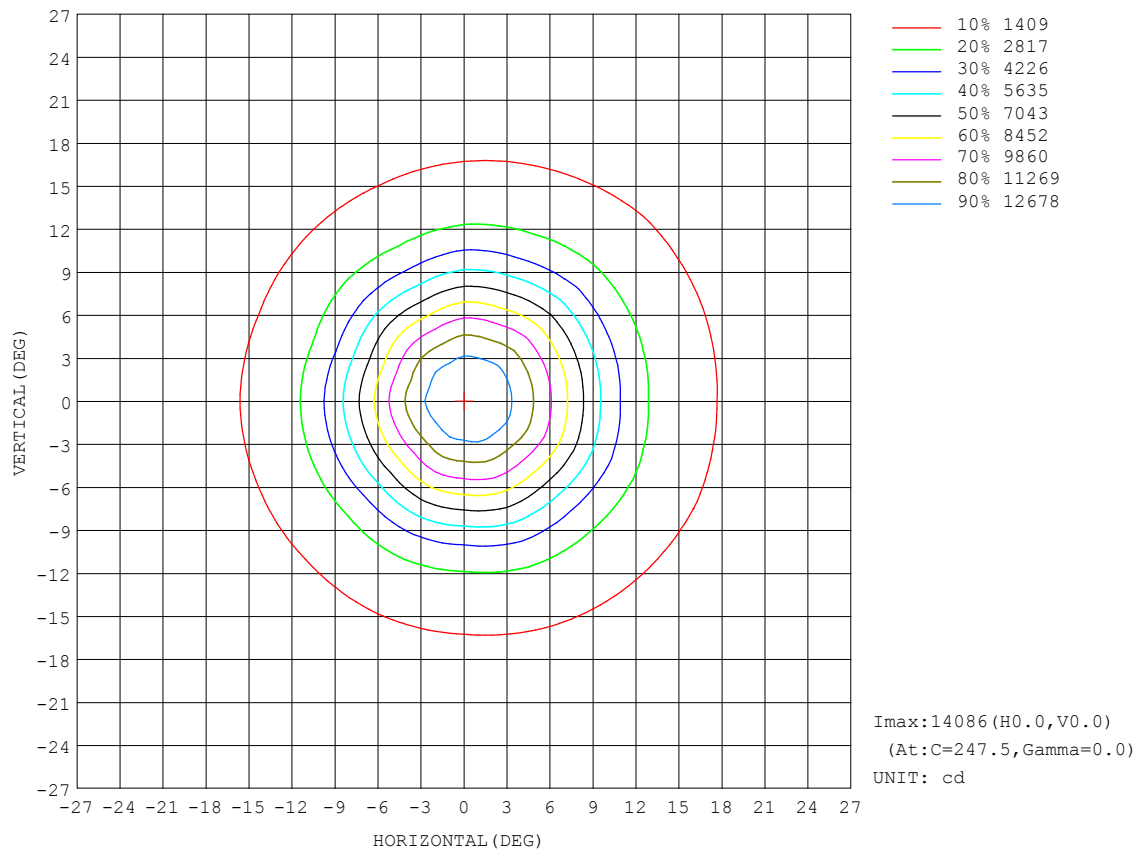
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	87	81	77	87	81	77	86	80	77	73
0.80	95	89	85	94	88	85	93	88	84	81
1.00	99	93	90	98	93	89	97	93	89	85
1.25	103	98	94	102	97	94	100	96	93	89
1.50	106	101	97	104	100	97	102	99	96	91
2.00	108	104	101	107	103	100	104	101	99	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	112	108	105	110	107	104	106	104	102	96
4.00	114	111	109	112	109	107	108	106	104	97
5.00	115	113	111	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

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:

ISOCANDELA DIAGRAM

Test:U:224.8V I:0.1110A P:23.80W PF:0.9520 Freq:50.00Hz Lamp Flux:1959.31x1 lm		
NAME: DP125RW-S01-24G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:120	Shielding Angle:

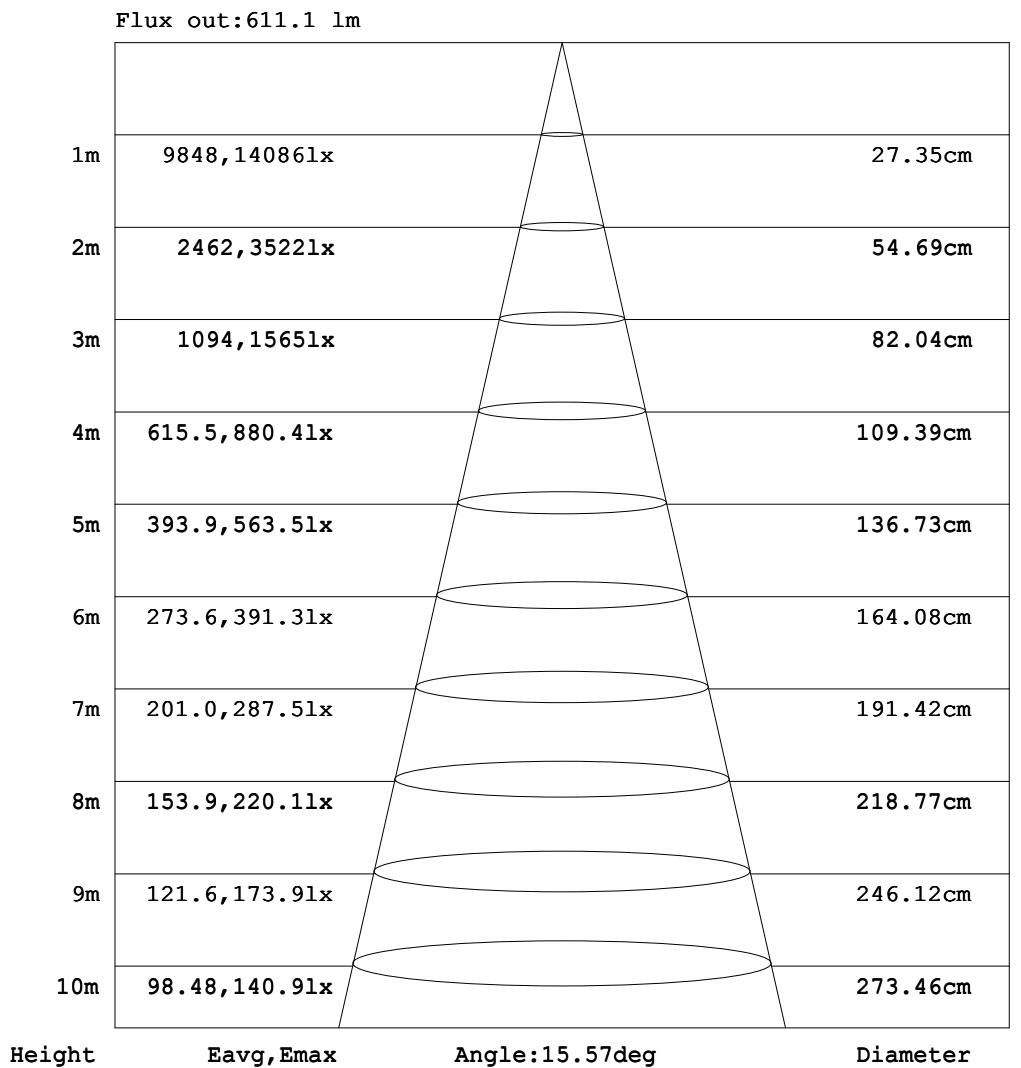


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZR
Test Date:2021-07-16

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:224.8V I:0.1110A P:23.80W PF:0.9520 Freq:50.00Hz Lamp Flux:1959.31x1 lm		
NAME: DP125RW-S01-24G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:120	Shielding Angle:



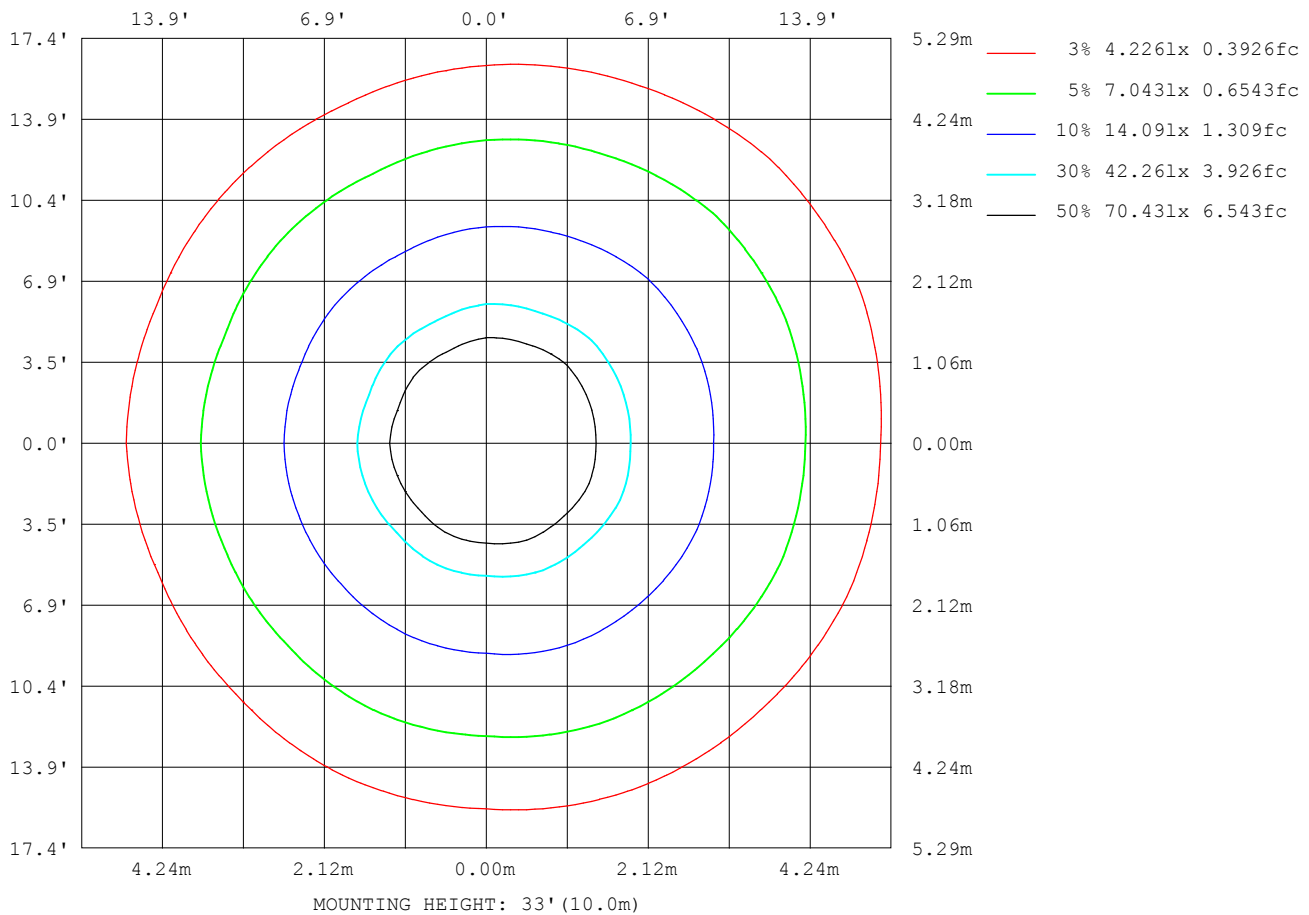
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.1110A P:23.80W PF:0.9520 Freq:50.00Hz Lamp Flux:1959.31x1 lm		
NAME: DP125RW-S01-24G30	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:224.8V I:0.1110A P:23.80W PF:0.9520 Freq:50.00Hz Lamp Flux:1959.31x1 lm		
NAME: DP125RW-S01-24G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:120	Shielding Angle:

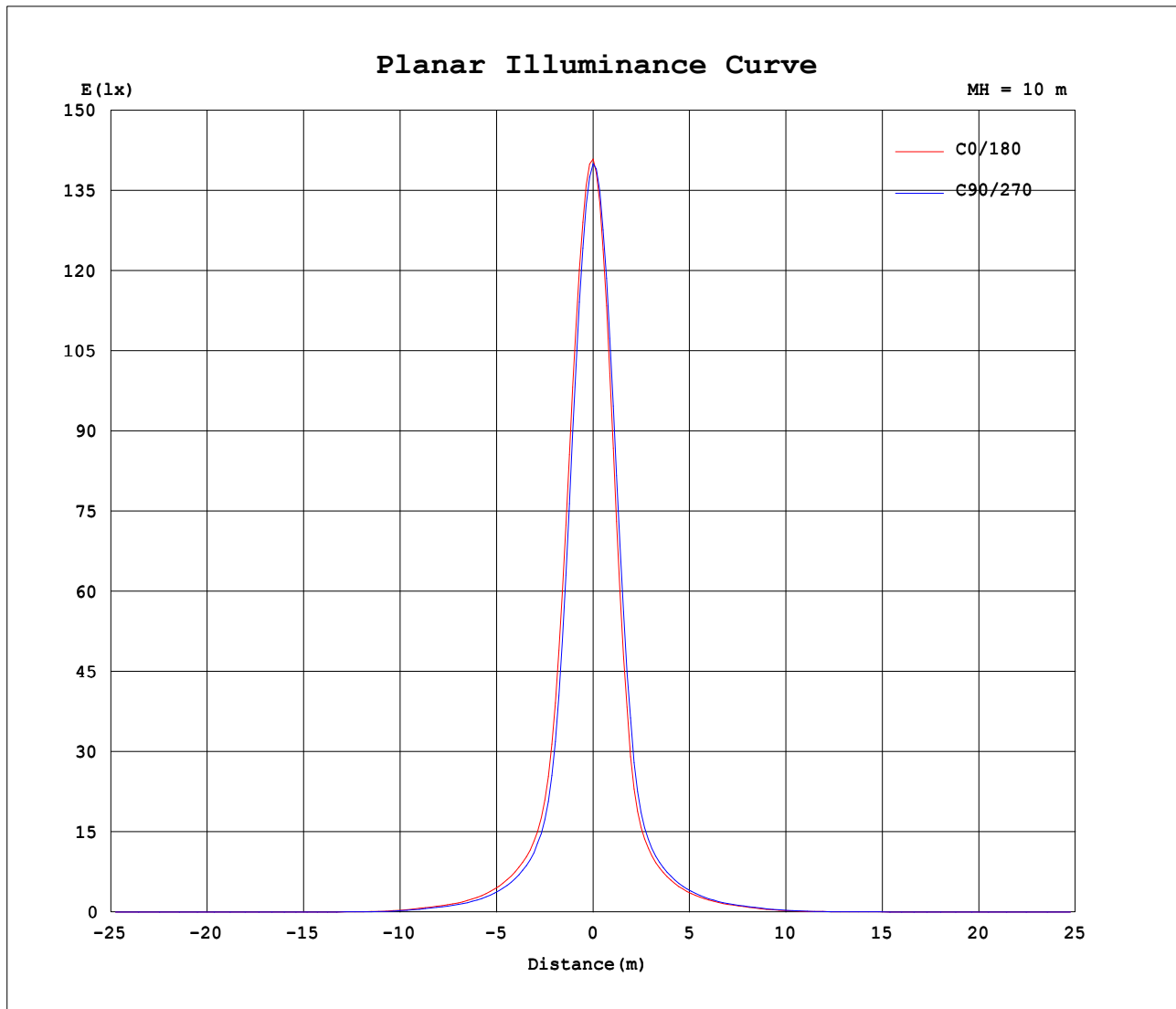
AvgL	cd/m2
L_0~180 (65) av	3831
L_0~180 (75) av	3760
L_0~180 (85) av	6124
L_90~270 (65) av	3867
L_90~270 (75) av	3764
L_90~270 (85) av	4728
L_45 (65) av	3876
L_45 (75) av	3810
L_45 (85) av	5066

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

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
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Humidity: 65.0%
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