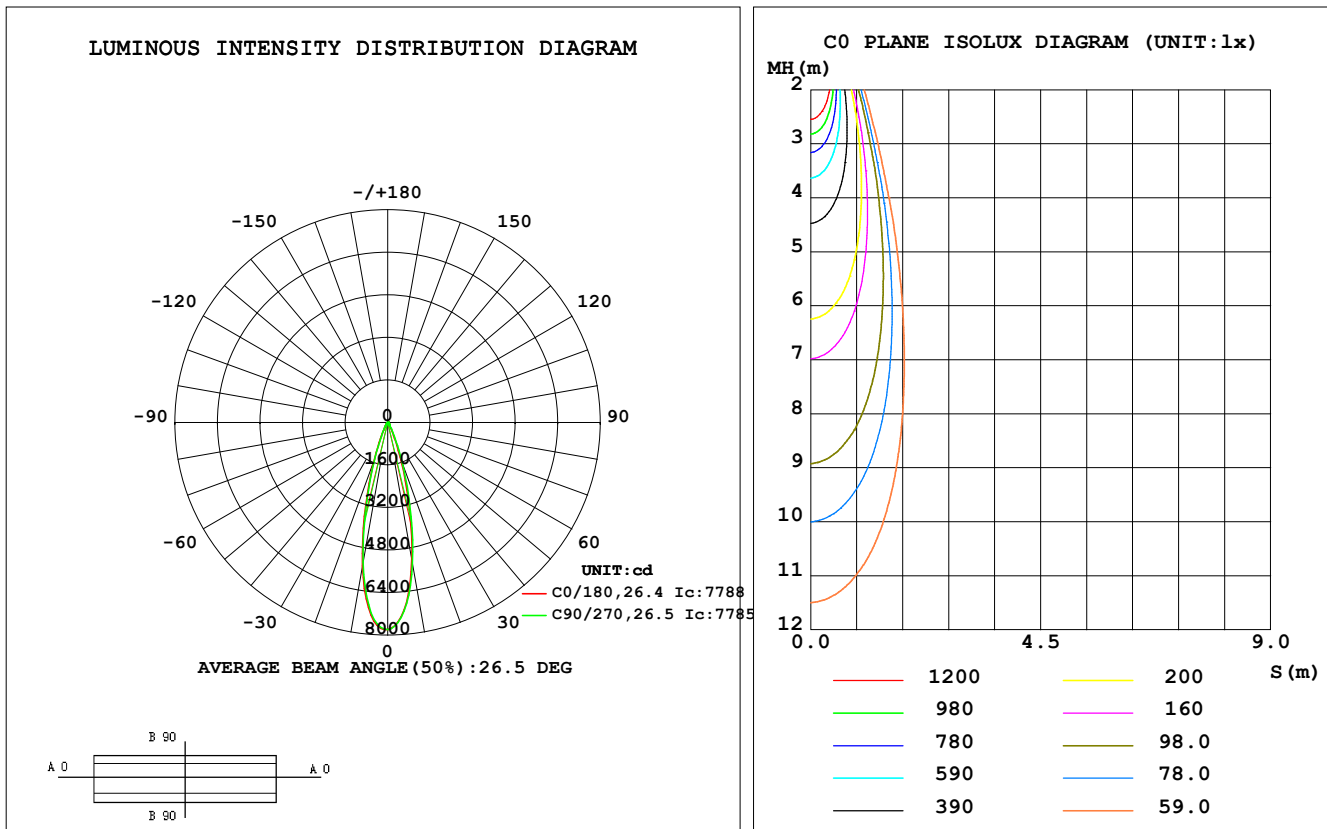


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:224.8V I:0.1120A P:24.00W PF:0.9530 Freq:50.00Hz Lamp Flux:1971.28x1 lm					
NAME: DP125RW-M01-24G30		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.:	
MFR.:		SUR.:120		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 82.14 lm/W
MODEL	3000K CRI90	I _{max} (cd)	7788	S/MH(C0/180)	0.45	
NOMINAL POWER(W)	24	LOR(%)	100.0	S/MH(C90/270)	0.44	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1971.3	η UP,DN(C0-180)	0.0,50.2	
NOMINAL FLUX(lm)	1971.28	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.8	
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	5264	5363	5396	5330	5478	5427	5336	5339	0- 10	625.6	625.6	31.7, 31.7
20	1395	1546	1589	1533	1467	1363	1380	1454	10- 20	856.1	1482	75.2, 75.2
30	237.9	280.8	290.4	250.4	258.3	268.1	266.3	263.4	20- 30	298.9	1781	90.3, 90.3
40	91.77	94.97	94.31	89.53	114.3	109.8	109.6	109.1	30- 40	98.76	1879	95.3, 95.3
50	22.31	23.94	24.45	23.42	39.65	38.45	37.49	37.34	40- 50	44.60	1924	97.6, 97.6
60	10.54	11.06	11.68	11.70	22.23	21.43	21.12	21.20	50- 60	19.88	1944	98.6, 98.6
70	7.036	7.196	7.316	7.308	13.98	13.70	13.61	13.64	60- 70	12.92	1957	99.3, 99.3
80	4.733	4.763	4.179	4.769	8.747	8.552	8.224	8.525	70- 80	8.895	1966	99.7, 99.7
90	3.275	3.265	3.274	3.288	5.257	5.192	5.172	5.189	80- 90	5.540	1971	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): 1906.8 lm

%lum = 96.7%

%lamp = 96.7%

Conical surface Flux(120deg): 1943.9 lm

%lum = 98.6%

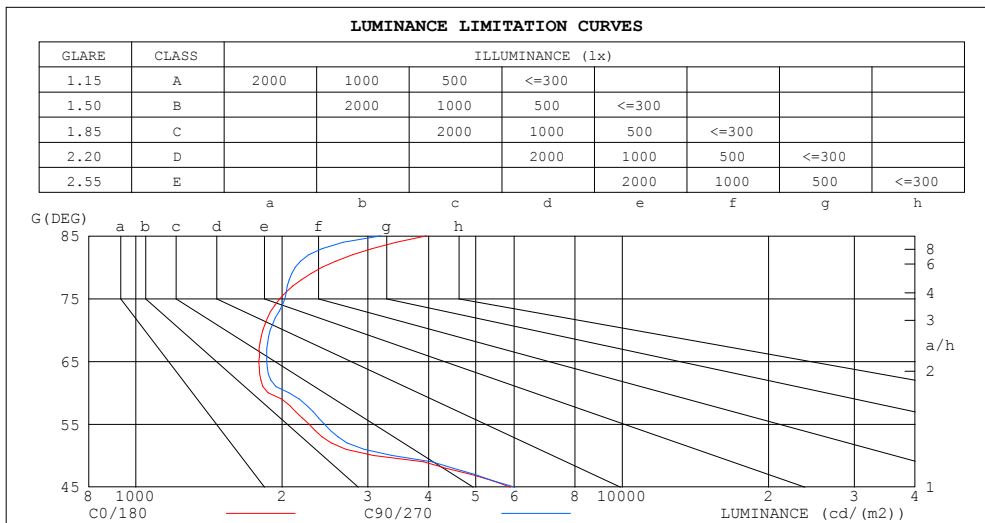
%lamp = 98.6%

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:0.1120A P:24.00W PF:0.9530 Freq:50.00Hz Lamp Flux:1971.28x1 lm		
NAME: DP125RW-M01-24G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:120	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	3960	3188
80	2417	2128
75	1979	2026
70	1825	1891
65	1790	1859
60	1870	2065
55	2272	2443
50	3079	3363
45	5887	6013

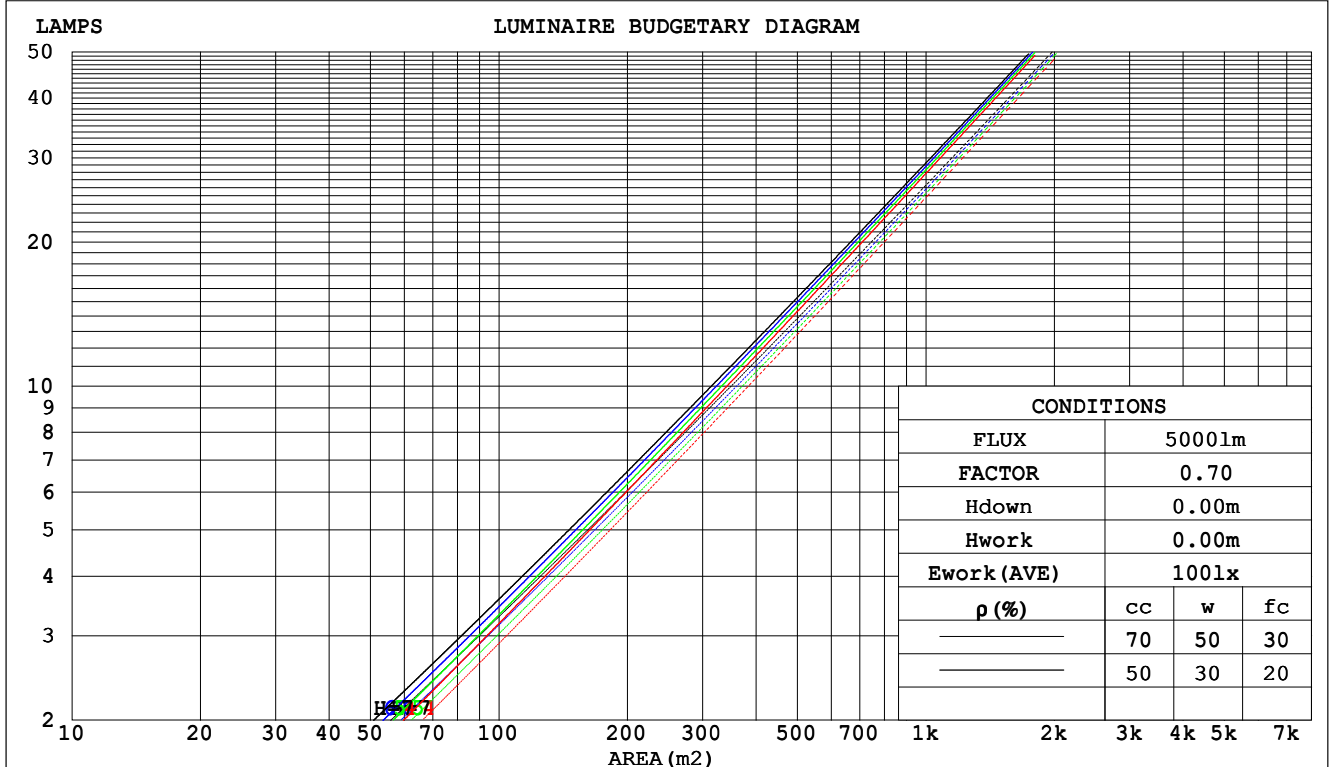
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZR
Test Date:2021-07-16

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:0.1120A P:24.00W PF:0.9530 Freq:50.00Hz Lamp Flux:1971.28x1 lm		
NAME: DP125RW-M01-24G30	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	1.07	1.06	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96
2.0	1.06	1.03	1.00	1.05	1.02	.99	1.02	.99	.97	.99	.97	.95	.96	.95	.93	.92
3.0	1.01	.97	.94	1.00	.97	.94	.98	.95	.92	.95	.93	.91	.93	.91	.89	.88
4.0	.97	.93	.89	.96	.92	.89	.94	.91	.88	.92	.89	.87	.90	.88	.86	.85
5.0	.93	.89	.85	.92	.88	.85	.91	.87	.84	.89	.86	.84	.88	.85	.83	.82
6.0	.90	.85	.82	.89	.85	.82	.88	.84	.81	.86	.83	.81	.85	.82	.80	.79
7.0	.86	.82	.79	.86	.82	.79	.85	.81	.78	.84	.80	.78	.83	.80	.77	.76
8.0	.84	.79	.76	.83	.79	.76	.82	.78	.76	.81	.78	.75	.80	.77	.75	.74
9.0	.81	.76	.74	.80	.76	.73	.80	.76	.73	.79	.75	.73	.78	.75	.73	.72
10.0	.78	.74	.71	.78	.74	.71	.77	.74	.71	.77	.73	.71	.76	.73	.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:224.8V I:0.1120A P:24.00W PF:0.9530 Freq:50.00Hz Lamp Flux:1971.28x1 lm					
NAME: DP125RW-M01-24G30			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	.150	.085	.027	.143	.081	.026	.130	.075	.024	.119	.069	.022	.108	.063	.020	
2.0	.138	.076	.023	.133	.073	.023	.122	.068	.021	.113	.063	.020	.104	.059	.019	
3.0	.129	.068	.021	.124	.066	.020	.115	.063	.019	.107	.059	.018	.100	.055	.017	
4.0	.120	.063	.018	.117	.061	.018	.109	.058	.017	.102	.055	.017	.096	.052	.016	
5.0	.113	.058	.017	.110	.056	.016	.104	.054	.016	.098	.052	.015	.092	.049	.015	
6.0	.107	.054	.015	.104	.053	.015	.099	.051	.015	.094	.049	.014	.089	.047	.014	
7.0	.101	.050	.014	.099	.049	.014	.094	.048	.014	.090	.046	.013	.086	.045	.013	
8.0	.097	.047	.013	.094	.046	.013	.090	.045	.013	.086	.044	.013	.083	.042	.012	
9.0	.092	.045	.012	.090	.044	.012	.087	.043	.012	.083	.042	.012	.080	.041	.012	
10.0	.088	.042	.012	.086	.042	.012	.083	.041	.011	.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	.127	.099	.093	.088	.057	.054	.051	.018	.017	.016	
2.0	.152	.133	.117	.130	.114	.101	.089	.079	.070	.051	.046	.041	.016	.015	.013	
3.0	.137	.113	.094	.118	.098	.082	.081	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.125	.098	.077	.107	.085	.067	.074	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.115	.086	.065	.099	.074	.056	.068	.052	.040	.039	.030	.024	.013	.010	.008	
6.0	.106	.076	.054	.091	.066	.047	.063	.046	.034	.037	.027	.020	.012	.009	.007	
7.0	.099	.068	.046	.085	.059	.041	.059	.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	.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	.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:224.8V I:0.1120A P:24.00W PF:0.9530 Freq:50.00Hz Lamp Flux:1971.28x1 lm										
NAME: DP125RW-M01-24G30					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	7.1	7.8	7.3	7.9	8.1	7.5	8.2	7.7	8.4	8.5
3H	7.4	8.0	7.6	8.2	8.4	7.8	8.5	8.0	8.6	8.8
4H	7.6	8.2	7.8	8.4	8.6	8.0	8.6	8.3	8.8	9.0
6H	7.9	8.5	8.2	8.7	9.0	8.2	8.8	8.5	9.0	9.3
8H	8.1	8.7	8.4	8.9	9.2	8.3	8.9	8.6	9.2	9.4
12H	8.4	8.9	8.7	9.2	9.4	8.5	9.0	8.8	9.3	9.6
4H 2H	7.1	7.7	7.3	7.9	8.1	7.5	8.1	7.8	8.3	8.5
3H	7.5	8.1	7.8	8.3	8.6	7.9	8.4	8.2	8.7	9.0
4H	7.9	8.4	8.2	8.7	9.0	8.2	8.7	8.6	9.0	9.3
6H	8.4	8.8	8.7	9.1	9.5	8.6	9.1	9.0	9.4	9.7
8H	8.7	9.1	9.1	9.4	9.8	8.8	9.2	9.2	9.6	9.9
12H	9.1	9.5	9.5	9.8	10.2	9.0	9.4	9.4	9.8	10.2
8H 4H	8.0	8.4	8.4	8.7	9.1	8.3	8.7	8.7	9.1	9.4
6H	8.7	9.0	9.1	9.4	9.8	8.9	9.2	9.3	9.6	10.0
8H	9.1	9.4	9.6	9.8	10.3	9.1	9.5	9.6	9.9	10.3
12H	9.7	10.0	10.2	10.4	10.9	9.5	9.8	10.0	10.2	10.7
12H 4H	8.0	8.4	8.4	8.7	9.1	8.3	8.7	8.7	9.1	9.5
6H	8.7	9.0	9.2	9.4	9.9	8.9	9.2	9.4	9.6	10.1
8H	9.3	9.5	9.7	10.0	10.4	9.3	9.5	9.7	10.0	10.4
Variations with the observer position at spacings:										
S = 1.0H	+ 1.2 / - 1.4					+ 1.3 / - 1.6				
1.5H	+ 2.2 / - 1.4					+ 2.4 / - 1.6				
2.0H	+ 1.9 / - 0.7					+ 2.0 / - 0.7				

CIE Pub.117, 1971 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:224.8V I:0.1120A P:24.00W PF:0.9530 Freq:50.00Hz Lamp Flux:1971.28x1 lm		
NAME: DP125RW-M01-24G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:120	Shielding Angle:

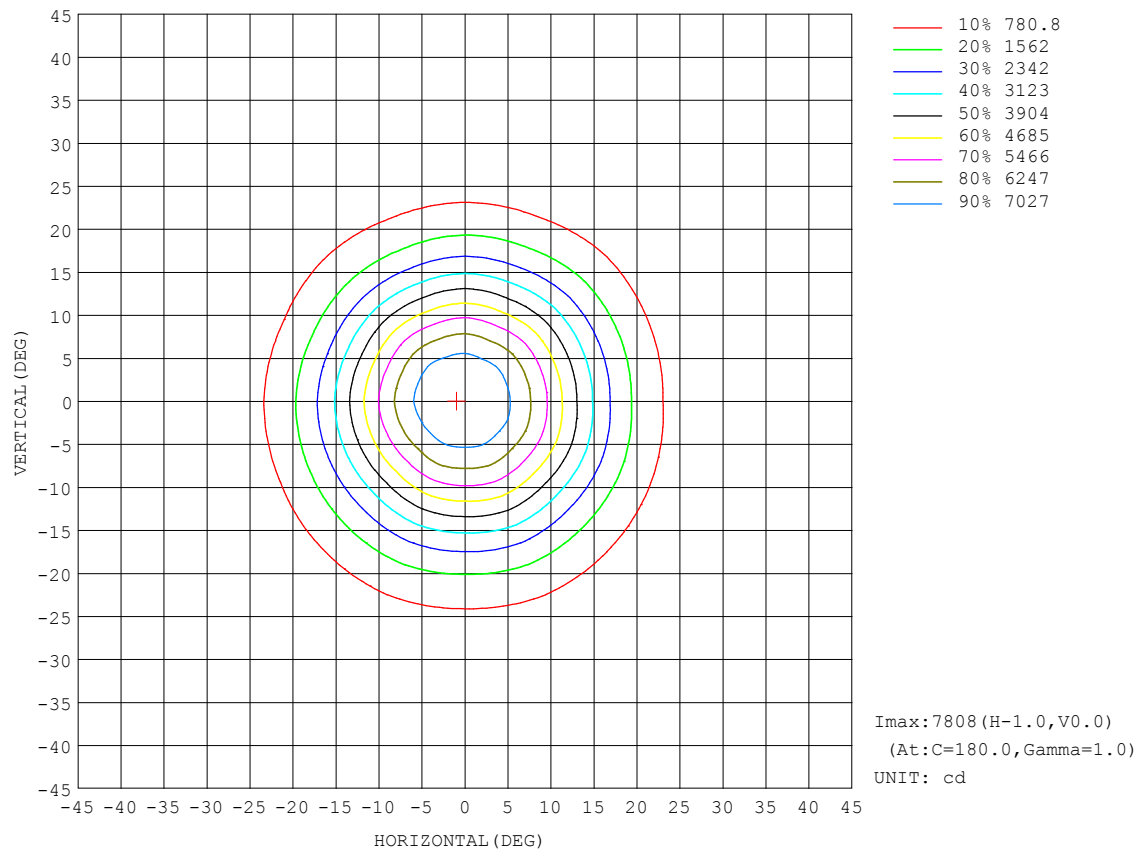
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	89	83	79	88	82	79	87	82	79	75
0.80	96	90	87	95	90	87	94	89	86	83
1.00	100	95	91	99	94	91	98	94	90	86
1.25	104	99	95	103	98	95	101	97	94	90
1.50	106	102	99	105	101	98	103	100	97	93
2.00	109	105	102	107	104	101	105	102	99	94
2.50	110	107	104	109	105	103	106	103	101	95
3.00	112	109	106	110	107	105	107	105	103	96
4.00	114	111	109	112	110	108	108	106	105	98
5.00	115	113	111	113	111	110	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

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:0.1120A P:24.00W PF:0.9530 Freq:50.00Hz Lamp Flux:1971.28x1 lm		
NAME: DP125RW-M01-24G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:120	Shielding Angle:

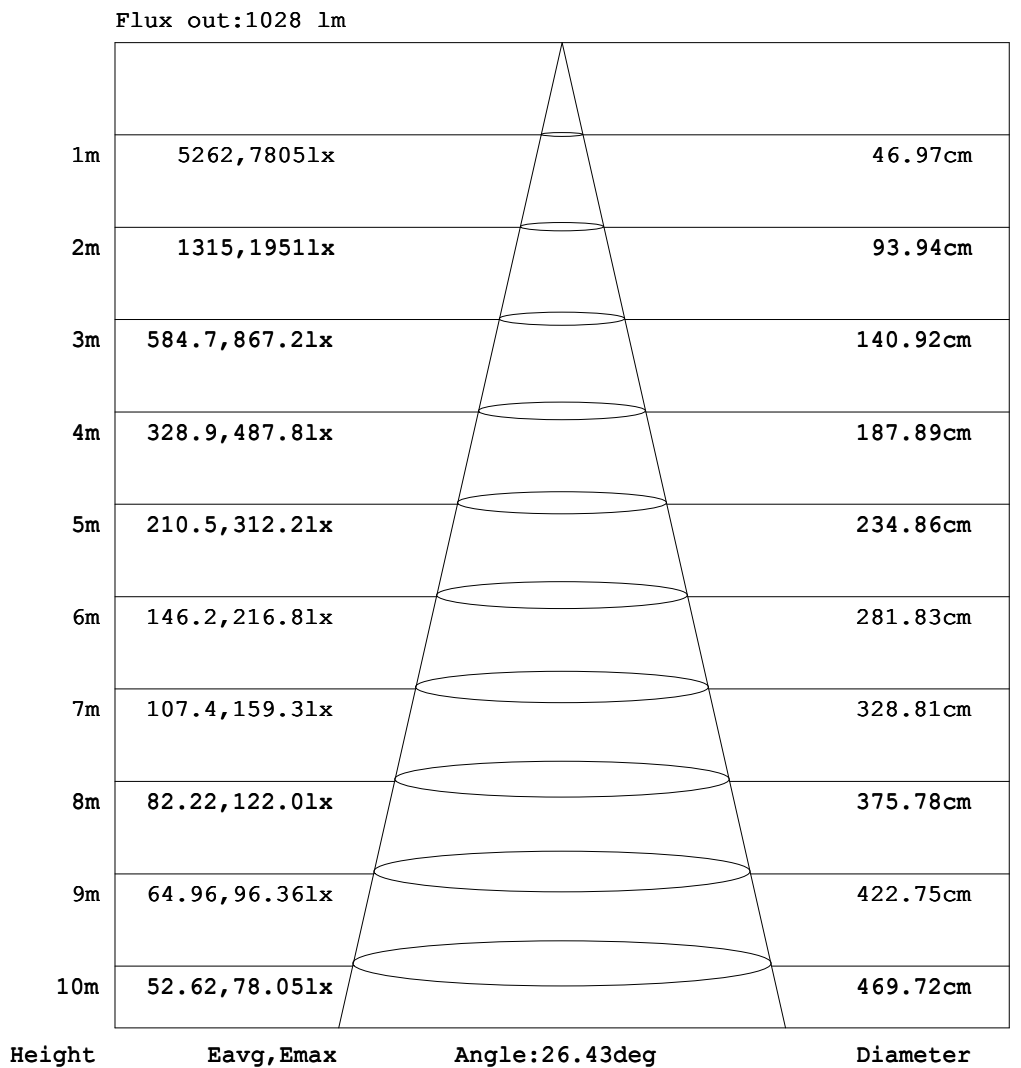


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZR
Test Date:2021-07-16

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:0.1120A P:24.00W PF:0.9530 Freq:50.00Hz Lamp Flux:1971.28x1 lm		
NAME: DP125RW-M01-24G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:120	Shielding Angle:



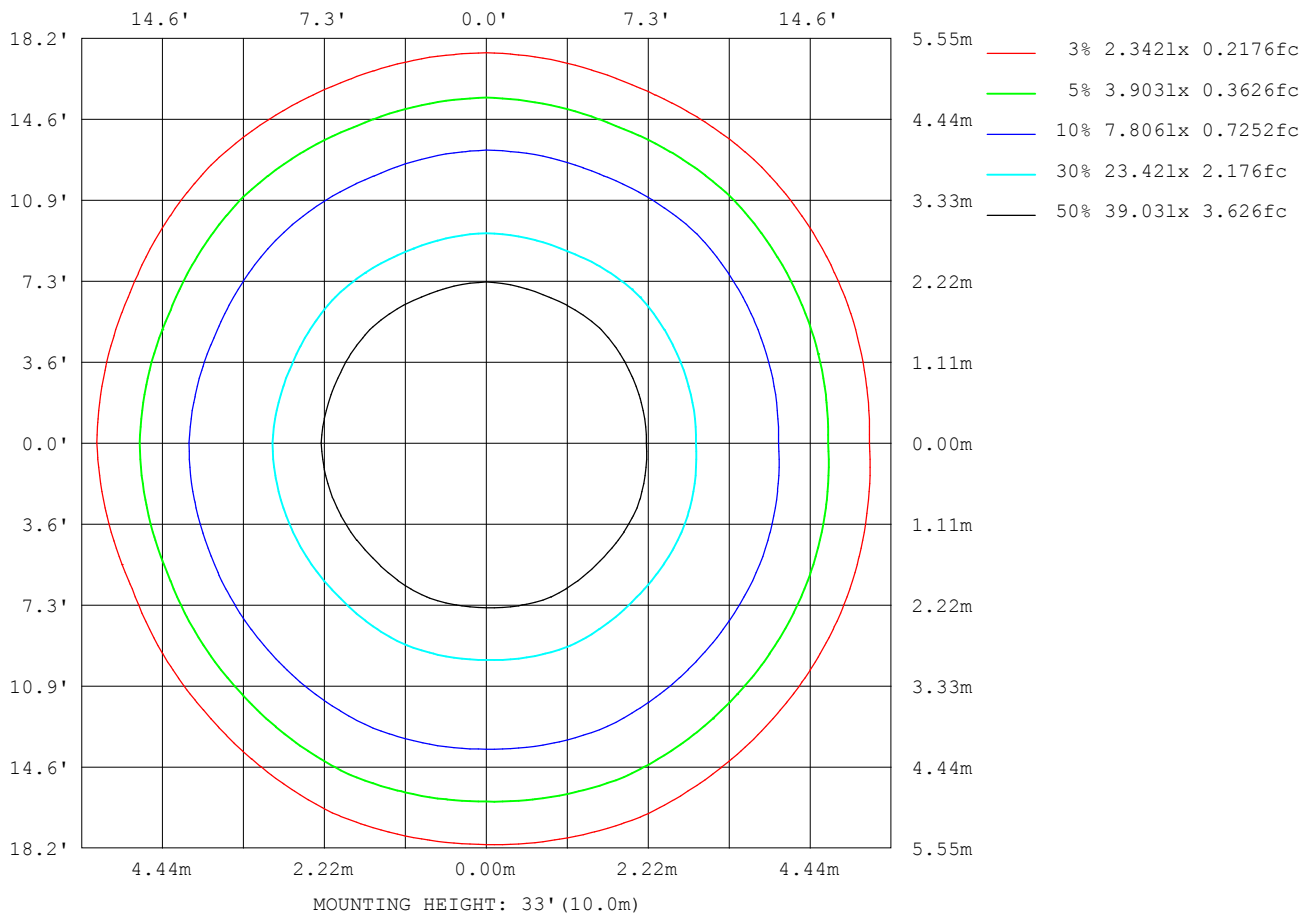
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:24.00W PF:0.9530 Freq:50.00Hz Lamp Flux:1971.28x1 lm		
NAME: DP125RW-M01-24G30	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:0.1120A P:24.00W PF:0.9530 Freq:50.00Hz Lamp Flux:1971.28x1 lm		
NAME: DP125RW-M01-24G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:120	Shielding Angle:

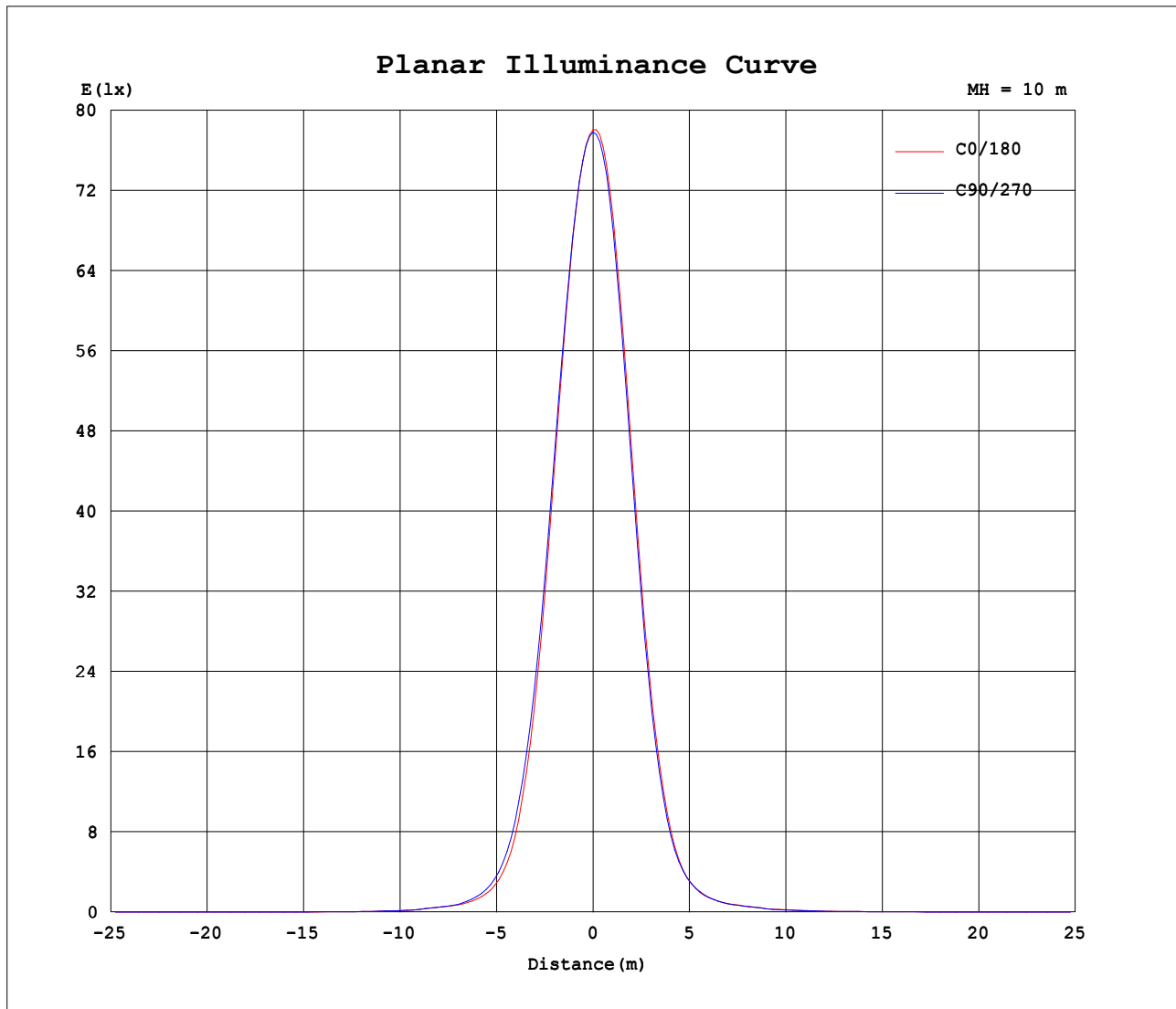
AvgL	cd/m2
L_0~180 (65) av	2721
L_0~180 (75) av	2883
L_0~180 (85) av	5436
L_90~270 (65) av	2706
L_90~270 (75) av	2858
L_90~270 (85) av	4591
L_45 (65) av	2711
L_45 (75) av	2871
L_45 (85) av	4830

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
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:

```