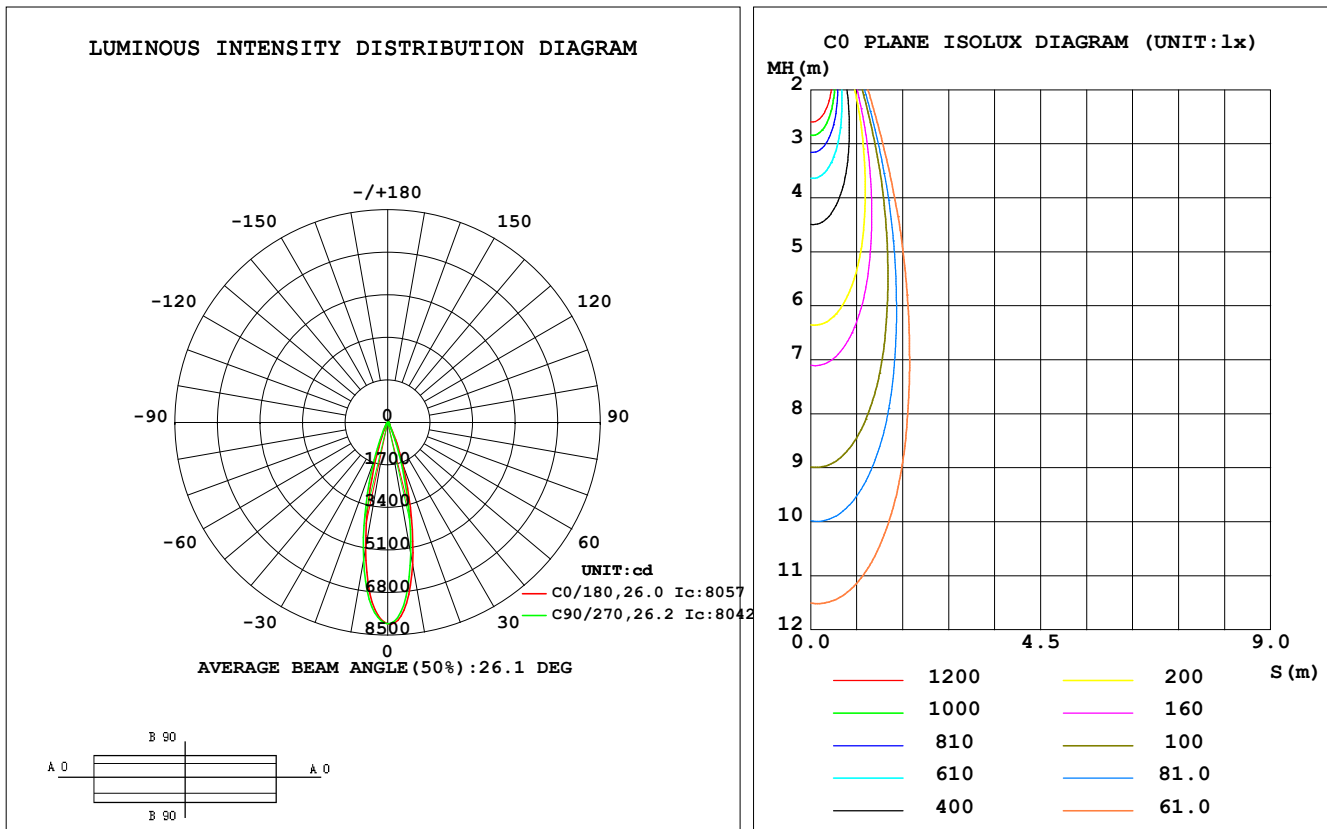


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:224.9V I:0.1110A P:23.80W PF:0.9510 Freq:50.00Hz Lamp Flux:1962.88x1 lm					
NAME: DP125RW-M02-24G30			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.:			SUR.:120		Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 82.47 lm/W
MODEL	3000K CRI90	I _{max} (cd)	8065	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)	1962.9	η UP,DN(C0-180)	0.0,48.9	
NOMINAL FLUX(lm)	1962.88	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	5753	5632	5336	5060	5108	5301	5590	5768	0- 10	640.2	640.2	32.6, 32.6
20	1791	1598	1382	1115	1082	1300	1588	1876	10- 20	862.5	1503	76.6, 76.6
30	321.3	302.8	235.7	186.9	211.5	239.6	293.3	351.6	20- 30	301.9	1805	91.9, 91.9
40	94.15	87.92	75.57	64.43	91.79	93.30	102.7	115.1	30- 40	94.98	1900	96.8, 96.8
50	14.19	12.70	10.12	8.273	24.57	25.11	27.33	31.36	40- 50	35.41	1935	98.6, 98.6
60	2.408	2.266	2.146	2.179	12.46	12.71	13.21	14.10	50- 60	10.67	1946	99.1, 99.1
70	2.514	2.572	2.600	2.641	8.889	9.069	9.411	9.696	60- 70	6.649	1952	99.5, 99.5
80	2.918	2.915	2.938	2.964	6.549	6.665	6.886	7.072	70- 80	5.708	1958	99.7, 99.7
90	3.134	3.173	3.191	3.254	4.955	4.994	5.137	5.278	80- 90	4.915	1963	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): 1922.4 lm

%lum = 97.9%

%lamp = 97.9%

Conical surface Flux(120deg): 1945.6 lm

%lum = 99.1%

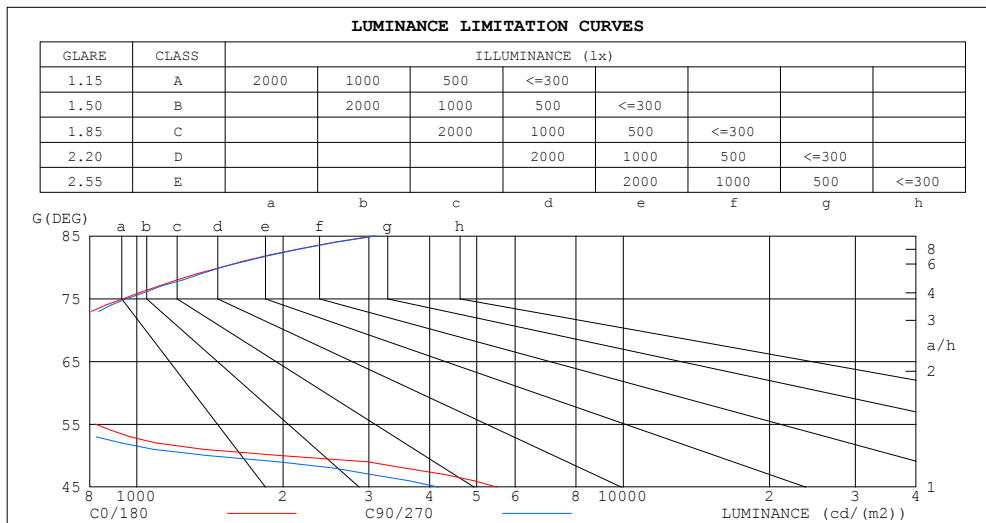
%lamp = 99.1%

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:0.9510 Freq:50.00Hz Lamp Flux:1962.88x1 lm		
NAME: DP125RW-M02-24G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:120	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	3070	3113
80	1492	1495
75	940	955
70	653	672
65	473	492
60	428	379
55	822	677
50	1960	1392
45	5499	4172

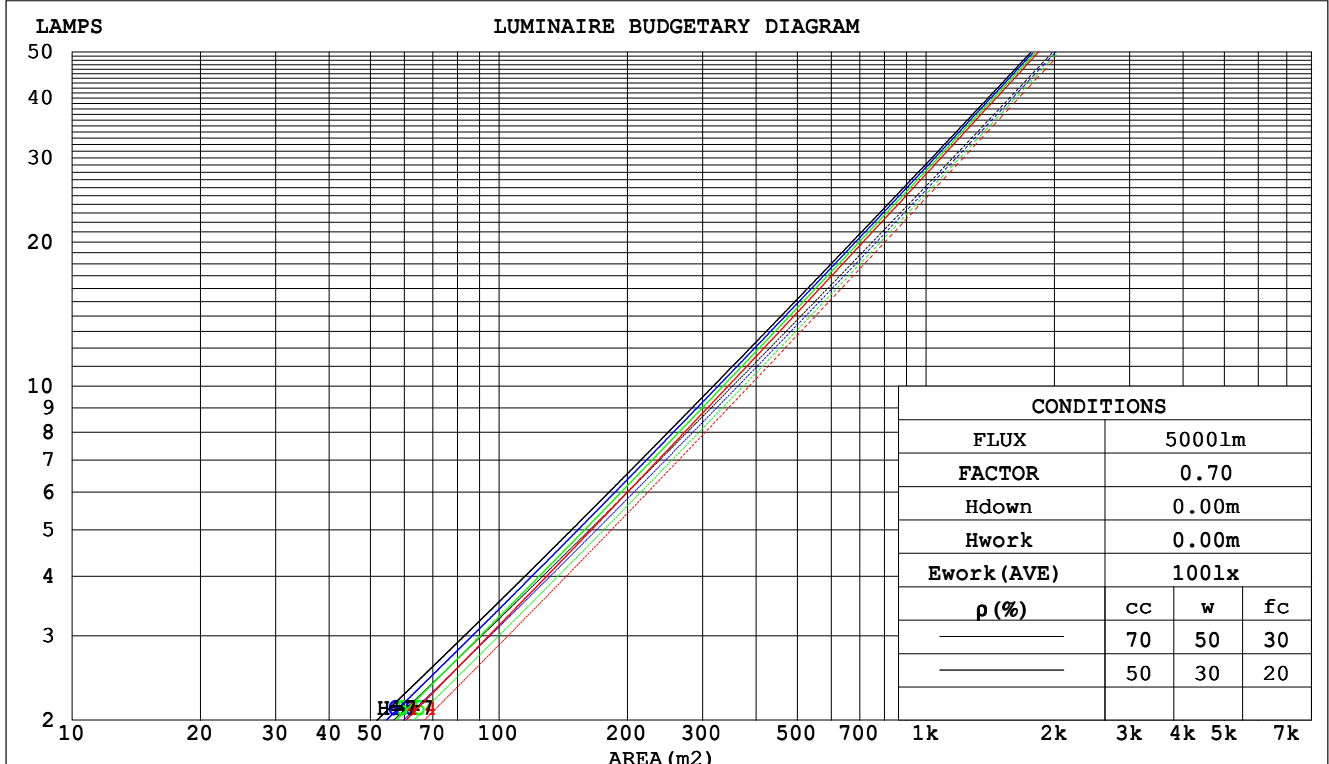
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZR
Test Date:2021-07-16

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:224.9V I:0.1110A P:23.80W PF:0.9510 Freq:50.00Hz Lamp Flux:1962.88x1 lm		
NAME: DP125RW-M02-24G30	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	1.09	1.10	1.09	1.07	1.06	1.05	1.04	1.03	1.02	1.01	.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	1.01	.97	.94	.98	.95	.93	.96	.94	.92	.94	.92	.90	.89
4.0	.98	.94	.90	.97	.93	.90	.95	.91	.89	.93	.90	.88	.91	.89	.87	.86
5.0	.94	.90	.86	.93	.89	.86	.91	.88	.85	.90	.87	.85	.88	.86	.84	.83
6.0	.90	.86	.83	.90	.86	.83	.88	.85	.82	.87	.84	.82	.86	.83	.81	.80
7.0	.87	.83	.80	.87	.83	.80	.86	.82	.79	.85	.81	.79	.84	.81	.79	.77
8.0	.84	.80	.77	.84	.80	.77	.83	.79	.77	.82	.79	.76	.81	.78	.76	.75
9.0	.82	.78	.75	.81	.77	.75	.81	.77	.74	.80	.77	.74	.79	.76	.74	.73
10.0	.79	.75	.72	.79	.75	.72	.78	.75	.72	.78	.74	.72	.77	.74	.72	.71



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:0.9510 Freq:50.00Hz Lamp Flux:1962.88x1 lm					
NAME: DP125RW-M02-24G30			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	.145	.083	.026	.139	.079	.025	.126	.072	.023	.115	.066	.021	.104	.061	.020	
2.0	.134	.074	.023	.129	.071	.022	.119	.066	.020	.109	.061	.019	.100	.057	.018	
3.0	.125	.067	.020	.120	.064	.019	.112	.061	.018	.104	.057	.017	.096	.053	.017	
4.0	.117	.061	.018	.113	.059	.018	.106	.056	.017	.099	.053	.016	.093	.050	.015	
5.0	.110	.056	.016	.107	.055	.016	.101	.052	.015	.095	.050	.015	.089	.048	.014	
6.0	.104	.052	.015	.101	.051	.015	.096	.049	.014	.091	.047	.014	.086	.045	.013	
7.0	.099	.049	.014	.096	.048	.014	.092	.046	.013	.087	.045	.013	.083	.043	.013	
8.0	.094	.046	.013	.092	.045	.013	.088	.044	.013	.084	.043	.012	.080	.041	.012	
9.0	.090	.044	.012	.088	.043	.012	.084	.042	.012	.081	.041	.012	.078	.040	.011	
10.0	.086	.041	.011	.084	.041	.011	.081	.040	.011	.078	.039	.011	.075	.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	.071	.051	.046	.041	.016	.015	.013	
3.0	.137	.113	.095	.117	.098	.082	.080	.068	.058	.046	.040	.034	.015	.013	.011	
4.0	.124	.098	.078	.107	.085	.068	.073	.059	.048	.042	.035	.028	.014	.011	.009	
5.0	.114	.086	.065	.098	.074	.057	.067	.052	.040	.039	.030	.024	.013	.010	.008	
6.0	.105	.076	.055	.090	.066	.048	.062	.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	.091	.061	.040	.079	.053	.035	.054	.037	.025	.032	.022	.015	.010	.007	.005	
9.0	.086	.055	.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:0.9510 Freq:50.00Hz Lamp Flux:1962.88x1 lm											
NAME: DP125RW-M02-24G30					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	6.8	7.5	7.0	7.6	7.8	5.7	6.4	5.9	6.5	6.7	
	3H	6.7	7.3	6.9	7.5	7.7	5.6	6.3	5.9	6.5	6.7
	4H	6.7	7.3	7.0	7.5	7.7	5.7	6.3	5.9	6.5	6.7
	6H	6.8	7.4	7.1	7.6	7.8	5.8	6.4	6.1	6.6	6.9
	8H	6.9	7.5	7.2	7.7	8.0	6.0	6.5	6.3	6.8	7.0
	12H	7.1	7.6	7.4	7.9	8.2	6.3	6.8	6.6	7.1	7.3
4H	2H	6.6	7.2	6.8	7.4	7.6	5.5	6.1	5.8	6.3	6.5
	3H	6.5	7.0	6.8	7.3	7.6	5.5	6.0	5.8	6.3	6.5
	4H	6.5	7.0	6.9	7.3	7.6	5.6	6.0	5.9	6.3	6.6
	6H	6.7	7.2	7.1	7.5	7.8	5.9	6.3	6.2	6.6	7.0
	8H	7.0	7.4	7.4	7.7	8.1	6.2	6.6	6.6	6.9	7.3
	12H	7.3	7.7	7.8	8.1	8.5	6.7	7.0	7.1	7.4	7.8
8H	4H	6.5	6.9	6.9	7.2	7.6	5.5	5.9	5.9	6.3	6.6
	6H	6.8	7.2	7.2	7.6	8.0	6.0	6.4	6.4	6.7	7.2
	8H	7.2	7.5	7.6	7.9	8.3	6.5	6.8	6.9	7.2	7.6
	12H	7.8	8.1	8.3	8.5	9.0	7.3	7.5	7.7	8.0	8.4
12H	4H	6.5	6.8	6.9	7.2	7.6	5.5	5.9	5.9	6.3	6.7
	6H	6.9	7.2	7.3	7.6	8.0	6.1	6.4	6.5	6.8	7.2
	8H	7.3	7.6	7.8	8.0	8.5	6.6	6.9	7.1	7.3	7.8
Variations with the observer position at spacings:											
S = 1.0H	+ 2.1 / - 3.4					+ 1.9 / - 2.8					
1.5H	+ 3.9 / - 3.6					+ 3.5 / - 3.0					
2.0H	+ 4.0 / - 1.3					+ 3.0 / - 0.9					

CIE Pub.117, 1963 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:224.9V I:0.1110A P:23.80W PF:0.9510 Freq:50.00Hz Lamp Flux:1962.88x1 lm		
NAME: DP125RW-M02-24G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:120	Shielding Angle:

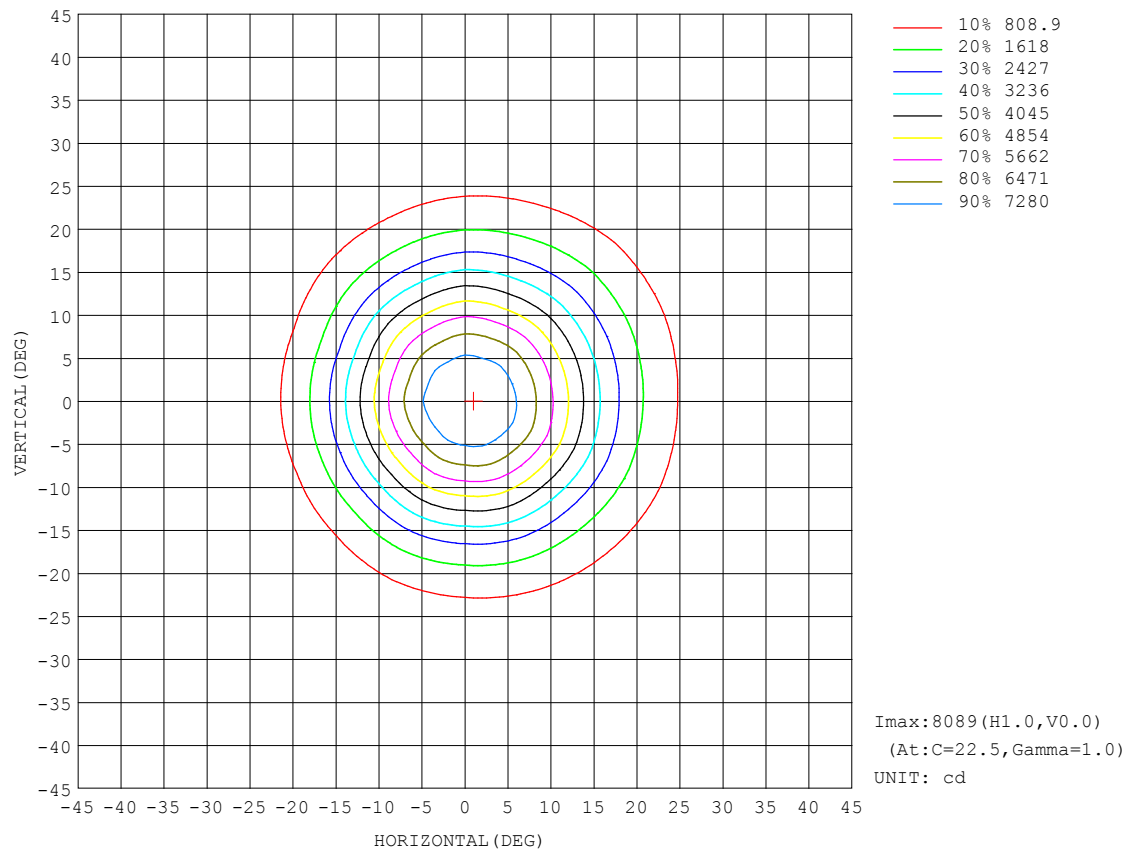
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	90	84	80	89	83	80	88	83	80	77
0.80	97	91	88	96	91	88	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	104	102	96
3.00	112	109	106	110	108	105	107	105	103	97
4.00	114	111	109	112	110	108	109	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

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:224.9V I:0.1110A P:23.80W PF:0.9510 Freq:50.00Hz Lamp Flux:1962.88x1 lm		
NAME: DP125RW-M02-24G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:120	Shielding Angle:

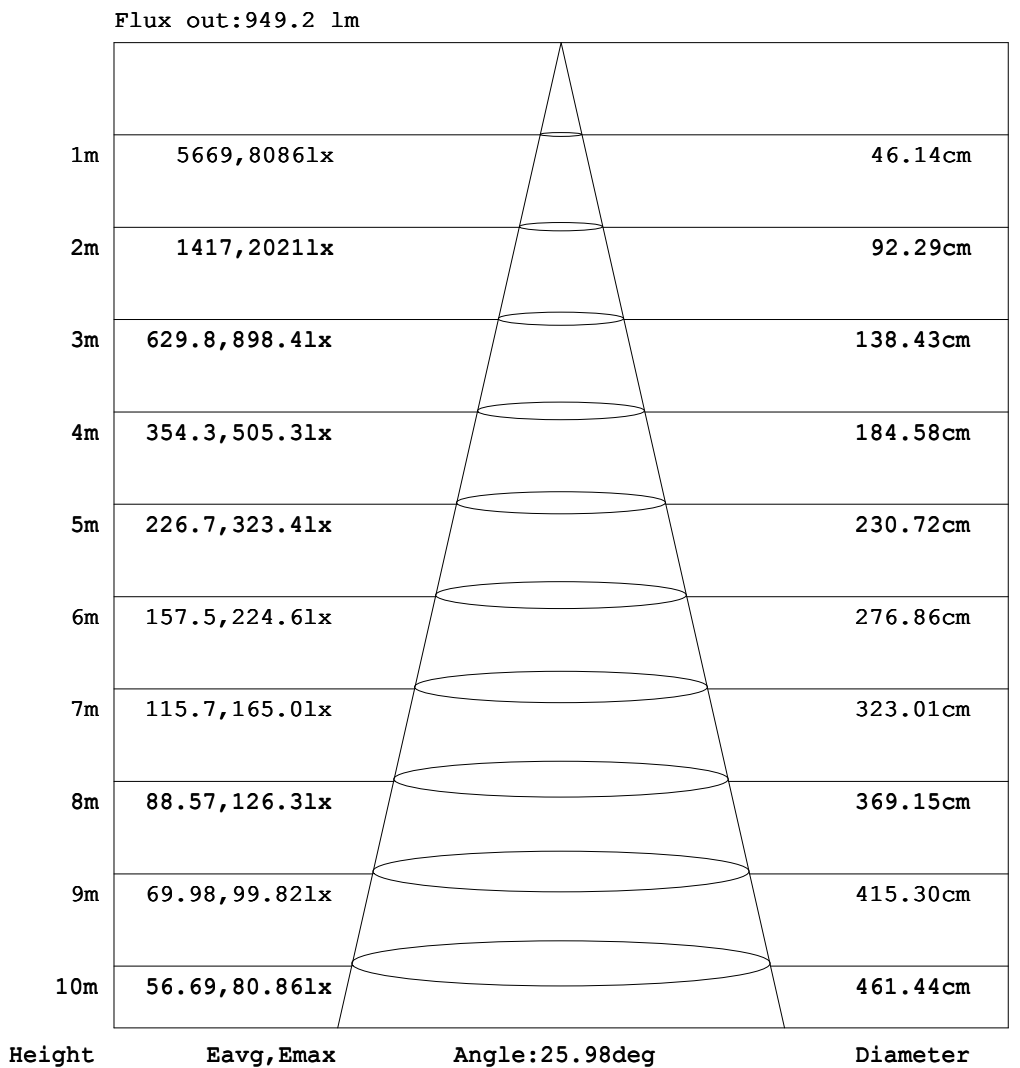


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZR
Test Date:2021-07-16

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:0.9510 Freq:50.00Hz Lamp Flux:1962.88x1 lm		
NAME: DP125RW-M02-24G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:120	Shielding Angle:



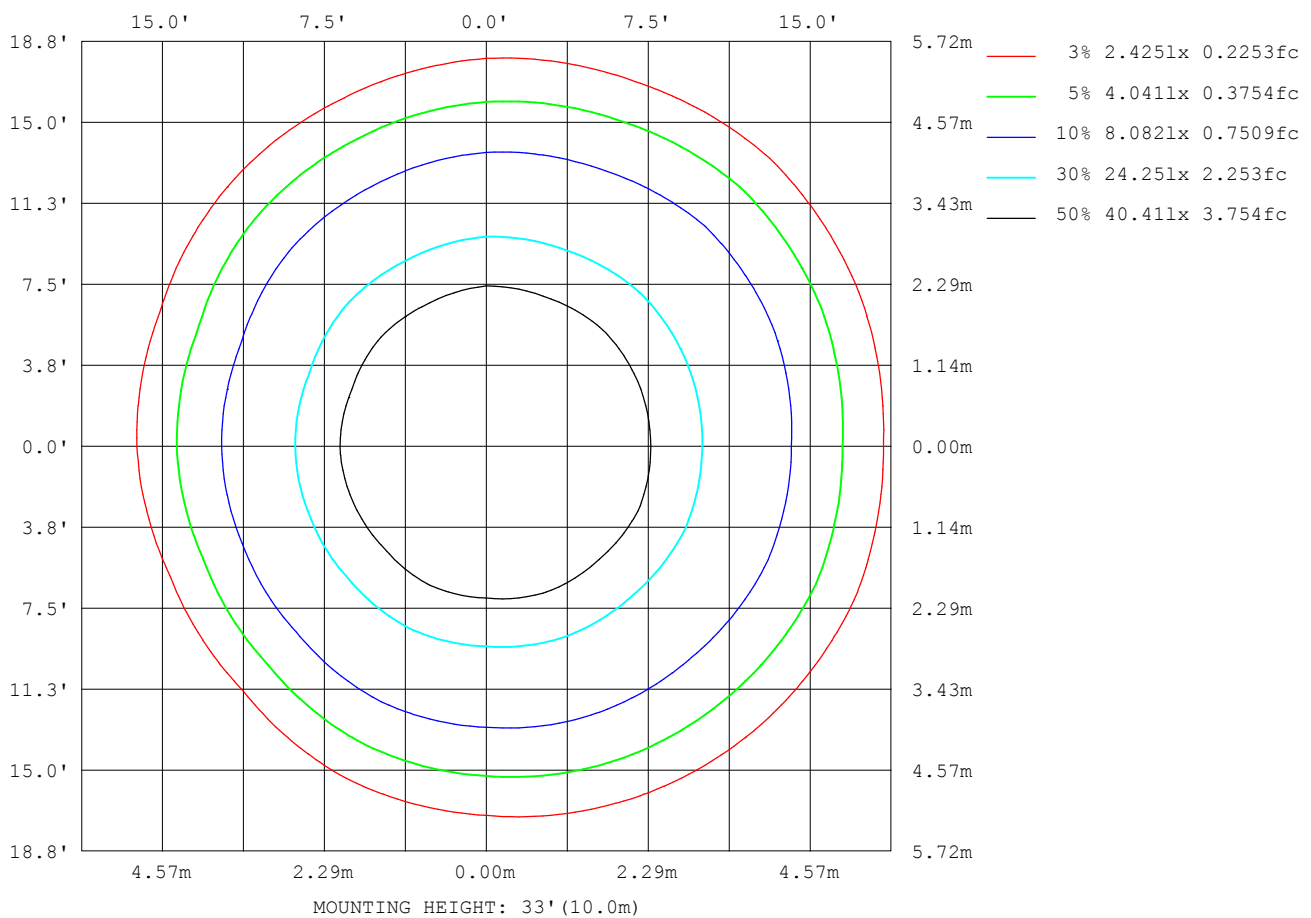
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.9510 Freq:50.00Hz Lamp Flux:1962.88x1 lm		
NAME: DP125RW-M02-24G30	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:0.9510 Freq:50.00Hz Lamp Flux:1962.88x1 lm		
NAME: DP125RW-M02-24G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:120	Shielding Angle:

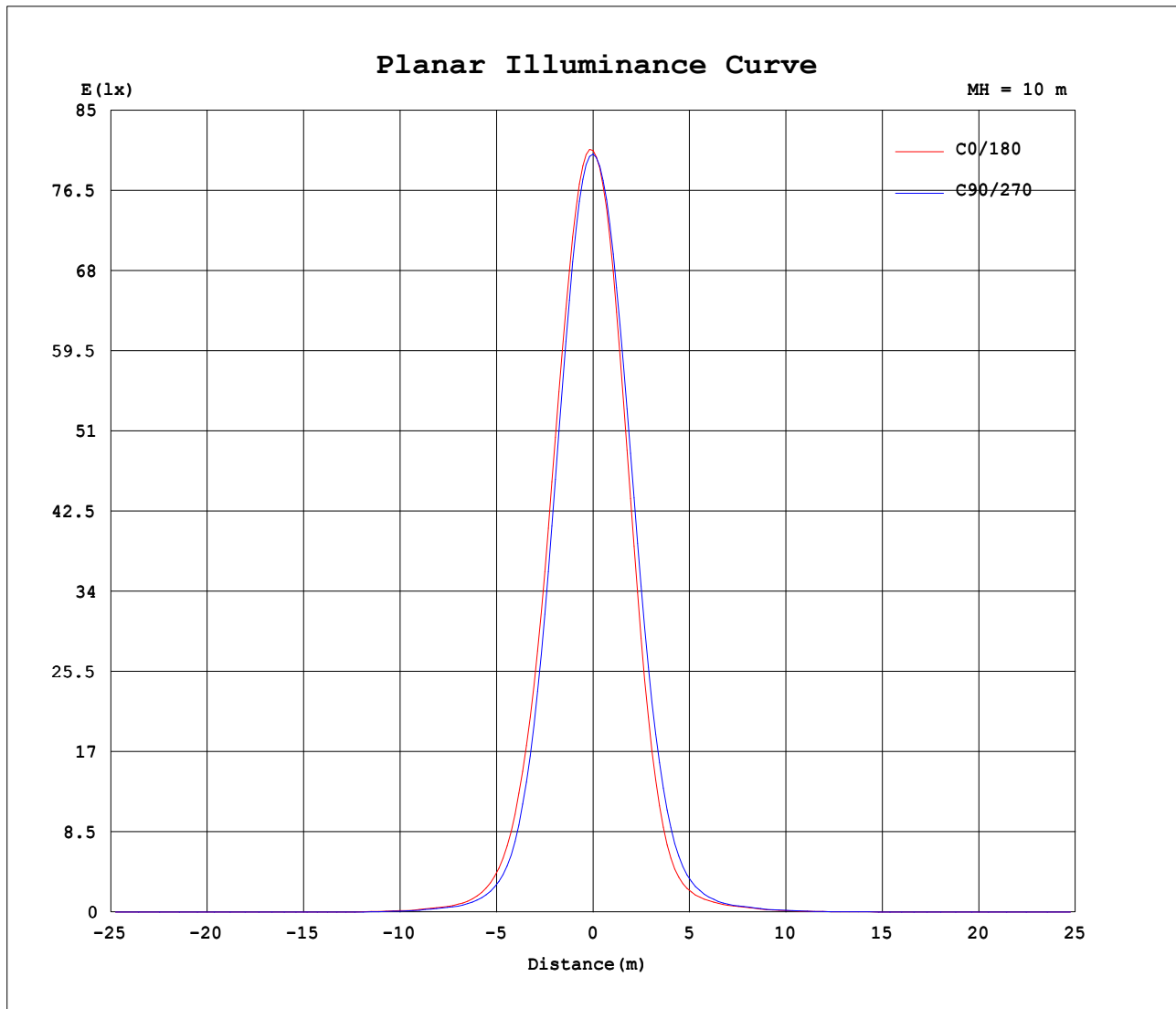
AvgL	cd/m2
L_0~180 (65) av	1335
L_0~180 (75) av	1768
L_0~180 (85) av	4405
L_90~270 (65) av	1409
L_90~270 (75) av	1849
L_90~270 (85) av	4576
L_45 (65) av	1407
L_45 (75) av	1845
L_45 (85) av	4565

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:

```