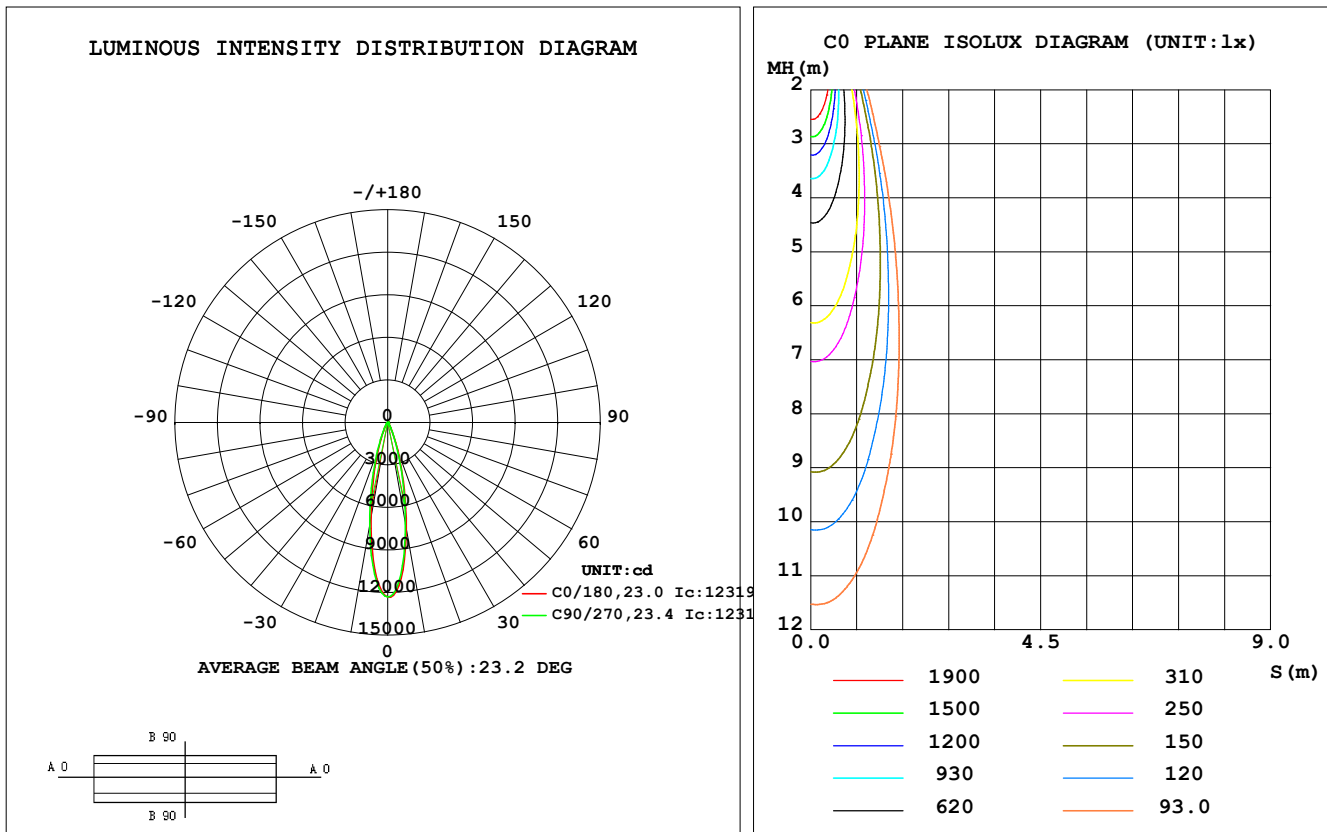


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:224.9V I:0.1470A P:31.80W PF:0.9560 Freq:50.00Hz Lamp Flux:2769.59x1 lm					
NAME: DP145RW-M01-32G30		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.:	
MFR.:		SUR.:140		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 87.09 lm/W
MODEL	3000K CRI90	I _{max} (cd)	12340	S/MH(C0/180)	0.37	
NOMINAL POWER(W)	32	LOR(%)	100.0	S/MH(C90/270)	0.40	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2769.6	η UP,DN(C0-180)	0.0,49.2	
NOMINAL FLUX(lm)	2769.59	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.8	
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	758.7	760.5	727.2	685.0	684.2	697.2	736.0	765.2	0- 10	909.3	909.3	32.8, 32.8
20	211.1	217.3	195.9	173.5	180.9	194.6	211.4	217.8	10- 20	1130	2040	73.6, 73.6
30	46.44	46.67	41.94	36.86	41.58	46.80	51.15	52.15	20- 30	451.5	2491	89.9, 89.9
40	12.65	11.92	11.10	10.40	13.44	14.52	15.82	16.85	30- 40	155.8	2647	95.6, 95.6
50	3.006	3.068	2.929	2.660	4.836	4.942	5.208	5.409	40- 50	58.79	2706	97.7, 97.7
60	1.485	1.501	1.490	1.430	2.872	2.905	2.973	3.053	50- 60	25.90	2732	98.6, 98.6
70	0.9529	0.9683	0.9760	0.9685	1.867	1.868	1.894	1.928	60- 70	17.52	2749	99.3, 99.3
80	0.6787	0.6746	0.5974	0.6553	1.206	1.205	1.171	1.246	70- 80	12.35	2761	99.7, 99.7
90	0.4878	0.4937	0.4968	0.4975	0.7572	0.7642	0.7747	0.7848	80- 90	8.111	2770	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): 2683.4 lm

%lum = 96.9%

%lamp = 96.9%

Conical surface Flux(120deg): 2731.6 lm

%lum = 98.6%

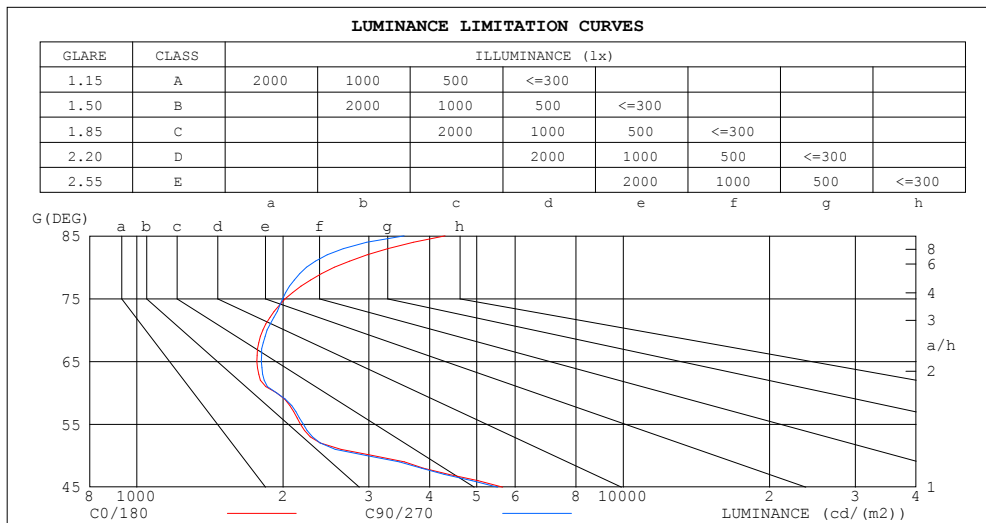
%lamp = 98.6%

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:224.9V I:0.1470A P:31.80W PF:0.9560 Freq:50.00Hz Lamp Flux:2769.59x1 lm		
NAME: DP145RW-M01-32G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:140	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4305	3545
80	2549	2234
75	2022	1996
70	1817	1853
65	1767	1803
60	1937	1936
55	2170	2201
50	3051	2960
45	5650	5519

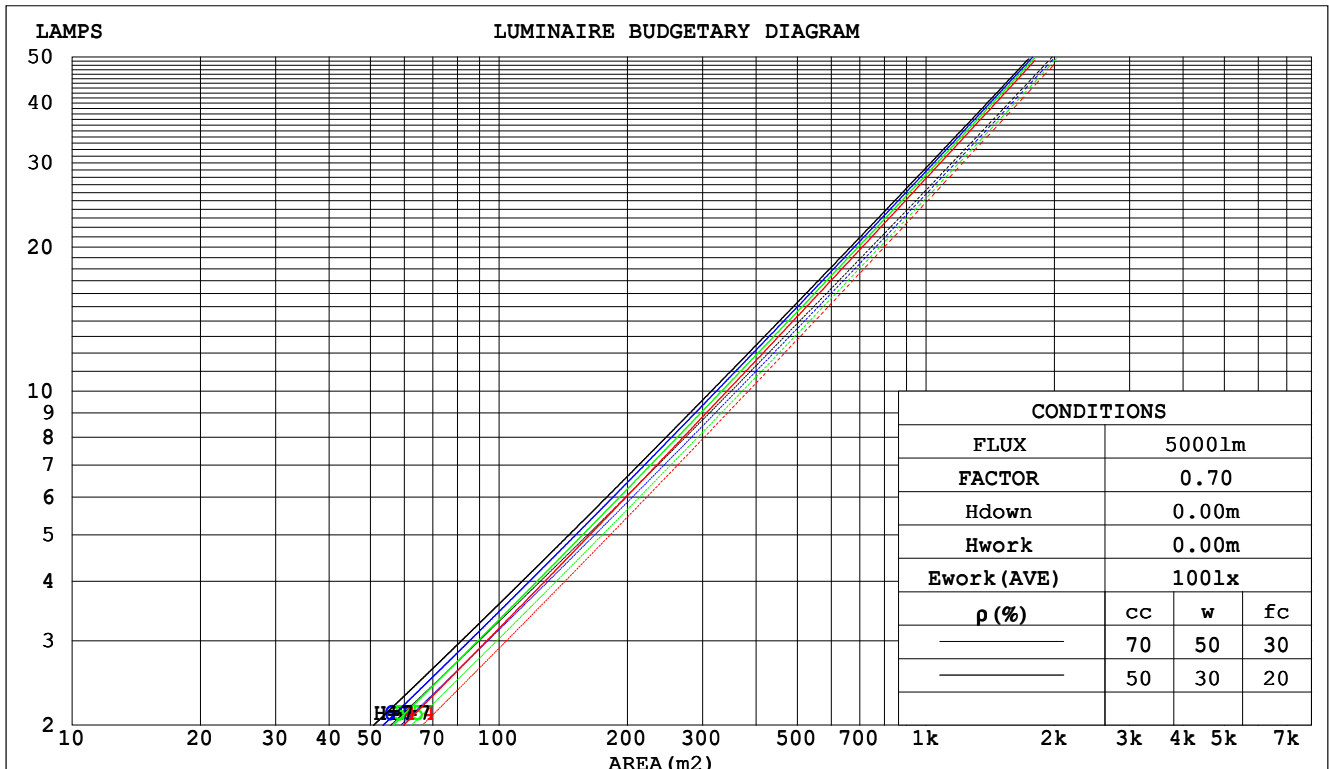
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZR
Test Date:2021-07-16

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:0.1470A P:31.80W PF:0.9560 Freq:50.00Hz Lamp Flux:2769.59x1 lm		
NAME: DP145RW-M01-32G30	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	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	.96	.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	.83	.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:224.9V I:0.1470A P:31.80W PF:0.9560 Freq:50.00Hz Lamp Flux:2769.59x1 lm		
NAME: DP145RW-M01-32G30	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	.150	.085	.027	.143	.082	.026	.130	.075	.024	.119	.069	.022	.108	.063	.020		
2.0	.138	.076	.023	.133	.073	.023	.123	.068	.021	.113	.063	.020	.104	.059	.019		
3.0	.129	.069	.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	.102	.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:224.9V I:0.1470A P:31.80W PF:0.9560 Freq:50.00Hz Lamp Flux:2769.59x1 lm											
NAME: DP145RW-M01-32G30					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	6.5	7.2	6.7	7.4	7.5	6.2	6.9	6.4	7.1	7.2	
	3H	6.7	7.4	7.0	7.6	7.7	6.4	7.1	6.7	7.3	7.5
	4H	6.9	7.5	7.2	7.7	7.9	6.6	7.3	6.9	7.5	7.7
	6H	7.2	7.8	7.5	8.0	8.2	6.9	7.5	7.2	7.7	8.0
	8H	7.4	7.9	7.7	8.2	8.4	7.0	7.6	7.3	7.9	8.1
	12H	7.6	8.2	7.9	8.4	8.7	7.2	7.8	7.5	8.0	8.3
4H	2H	6.4	7.1	6.7	7.3	7.5	6.1	6.8	6.4	7.0	7.2
	3H	6.8	7.3	7.1	7.6	7.9	6.5	7.1	6.8	7.4	7.6
	4H	7.1	7.6	7.4	7.9	8.2	6.9	7.4	7.2	7.7	8.0
	6H	7.5	8.0	7.9	8.3	8.7	7.3	7.7	7.7	8.1	8.4
	8H	7.9	8.3	8.2	8.6	9.0	7.5	7.9	7.9	8.3	8.6
	12H	8.3	8.7	8.7	9.0	9.4	7.8	8.2	8.2	8.6	9.0
8H	4H	7.2	7.6	7.6	7.9	8.3	7.0	7.4	7.4	7.7	8.1
	6H	7.8	8.2	8.2	8.6	9.0	7.6	7.9	8.0	8.3	8.7
	8H	8.3	8.6	8.7	9.0	9.4	7.9	8.2	8.4	8.6	9.1
	12H	8.9	9.2	9.4	9.6	10.1	8.4	8.6	8.8	9.1	9.5
12H	4H	7.2	7.6	7.6	7.9	8.3	7.0	7.4	7.4	7.7	8.1
	6H	7.9	8.2	8.3	8.6	9.0	7.6	8.0	8.1	8.4	8.8
	8H	8.4	8.7	8.9	9.1	9.6	8.1	8.3	8.5	8.8	9.2
Variations with the observer position at spacings:											
S = 1.0H	+ 1.4 / - 1.5					+ 1.1 / - 1.4					
1.5H	+ 2.8 / - 1.5					+ 2.4 / - 1.5					
2.0H	+ 1.7 / - 0.5					+ 1.8 / - 0.6					

CIE Pub.117, 2770 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 3.5$)

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:31.80W PF:0.9560 Freq:50.00Hz Lamp Flux:2769.59x1 lm		
NAME: DP145RW-M01-32G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:140	Shielding Angle:

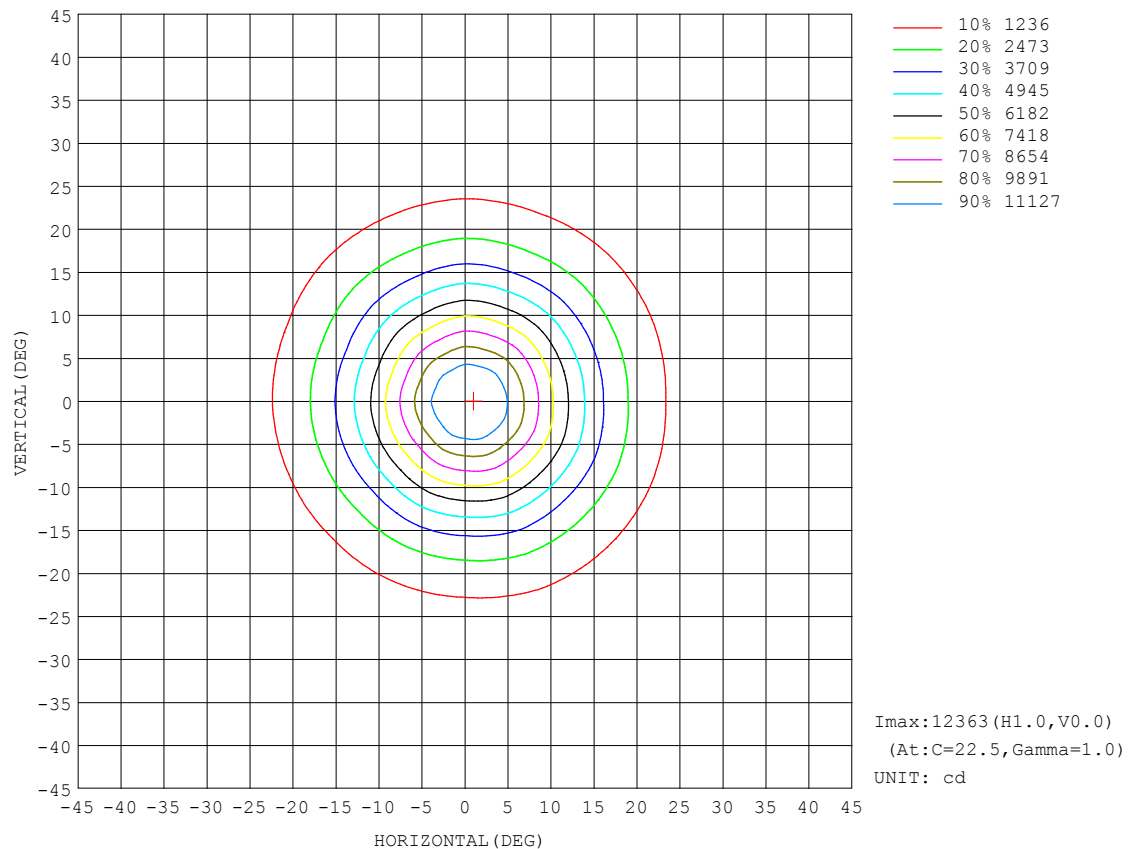
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	89	83	79	88	83	79	88	82	79	76
0.80	96	90	87	95	90	87	94	89	86	83
1.00	100	95	91	99	94	91	98	94	90	87
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	106	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	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:0.1470A P:31.80W PF:0.9560 Freq:50.00Hz Lamp Flux:2769.59x1 lm		
NAME: DP145RW-M01-32G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:140	Shielding Angle:

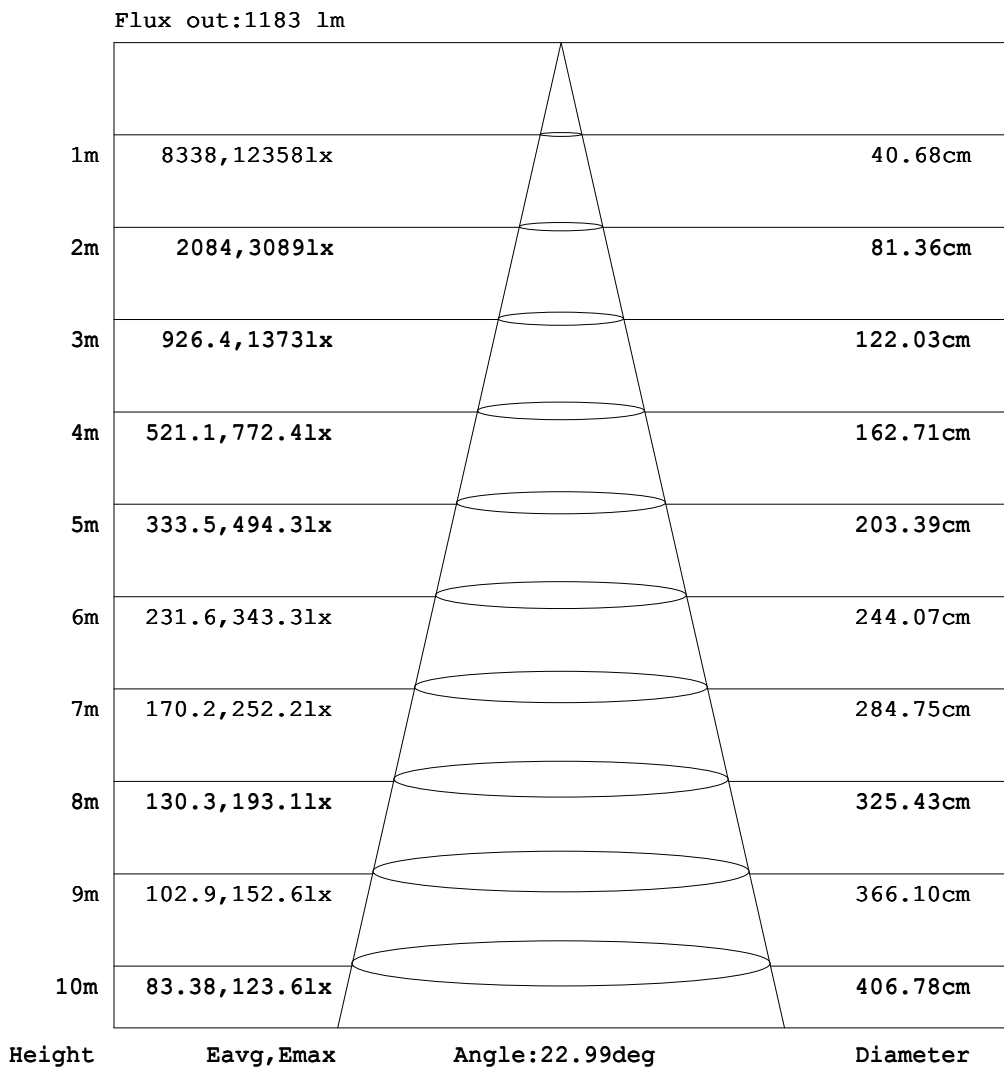


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZR
Test Date:2021-07-16

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:31.80W PF:0.9560 Freq:50.00Hz Lamp Flux:2769.59x1 lm		
NAME: DP145RW-M01-32G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:140	Shielding Angle:



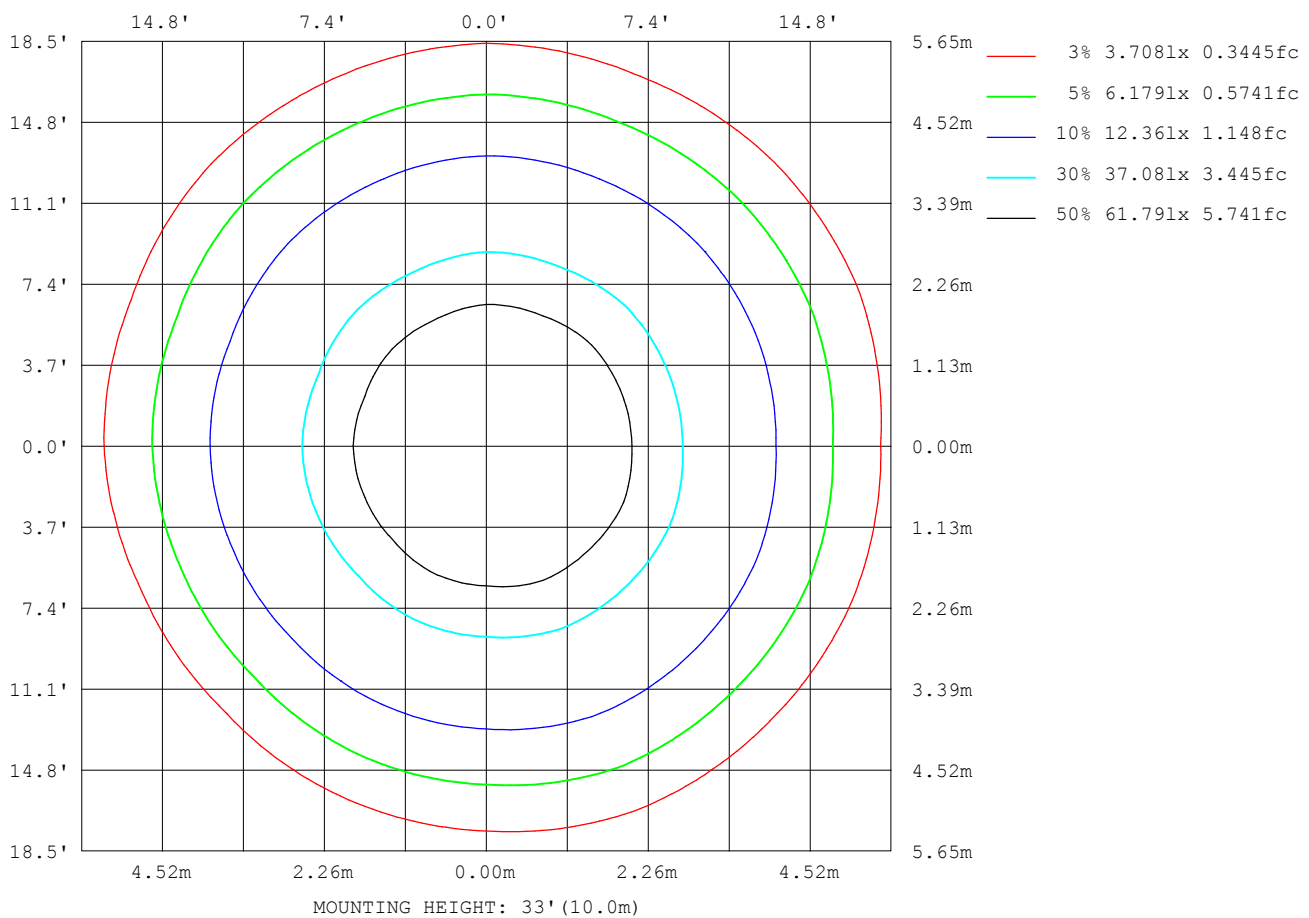
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:31.80W PF:0.9560 Freq:50.00Hz Lamp Flux:2769.59x1 lm		
NAME: DP145RW-M01-32G30	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:31.80W PF:0.9560 Freq:50.00Hz Lamp Flux:2769.59x1 lm		
NAME: DP145RW-M01-32G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:140	Shielding Angle:

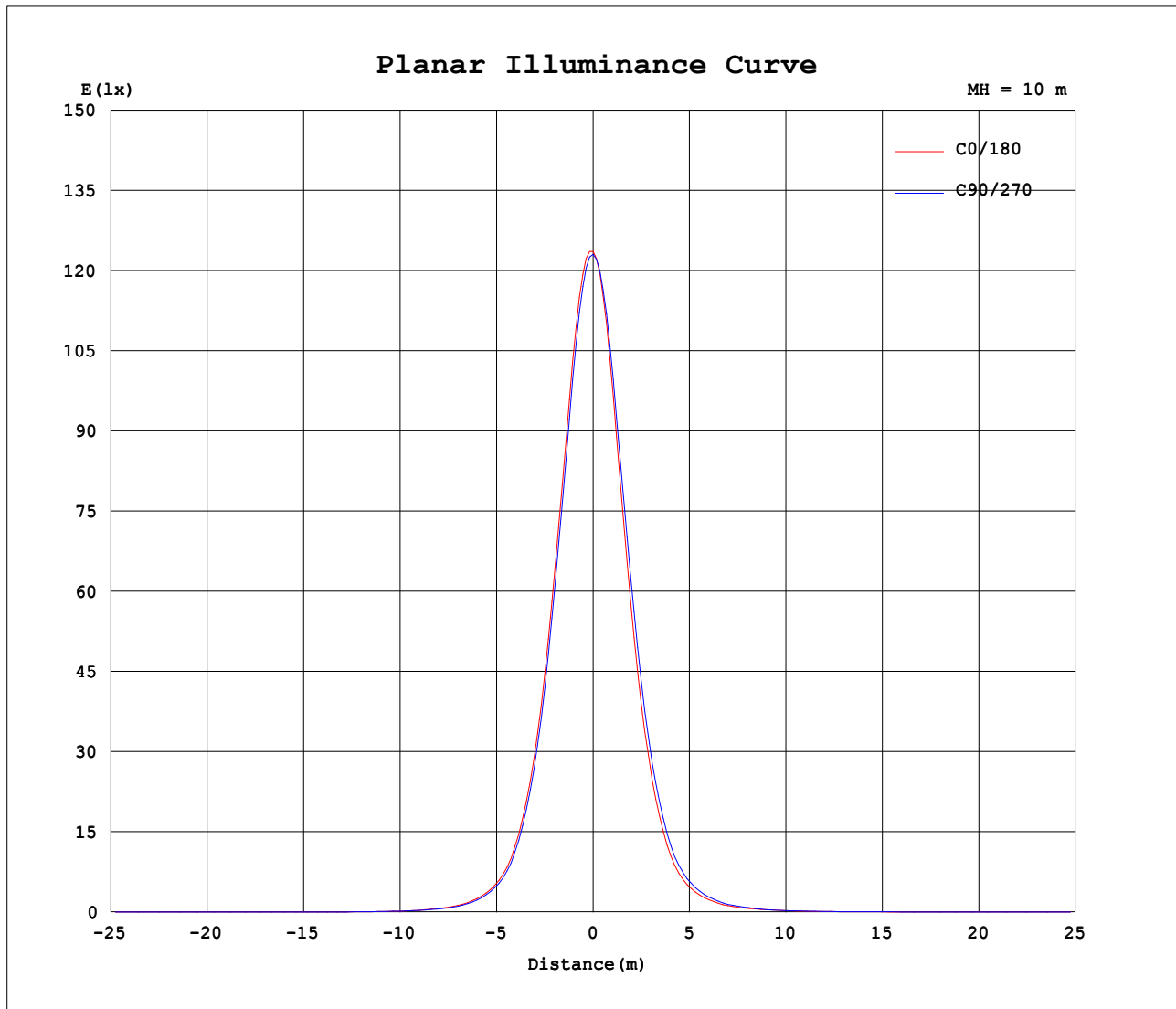
AvgL	cd/m2
L_0~180 (65) av	2658
L_0~180 (75) av	2897
L_0~180 (85) av	5704
L_90~270 (65) av	2709
L_90~270 (75) av	2914
L_90~270 (85) av	5072
L_45 (65) av	2704
L_45 (75) av	2945
L_45 (85) av	5281

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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