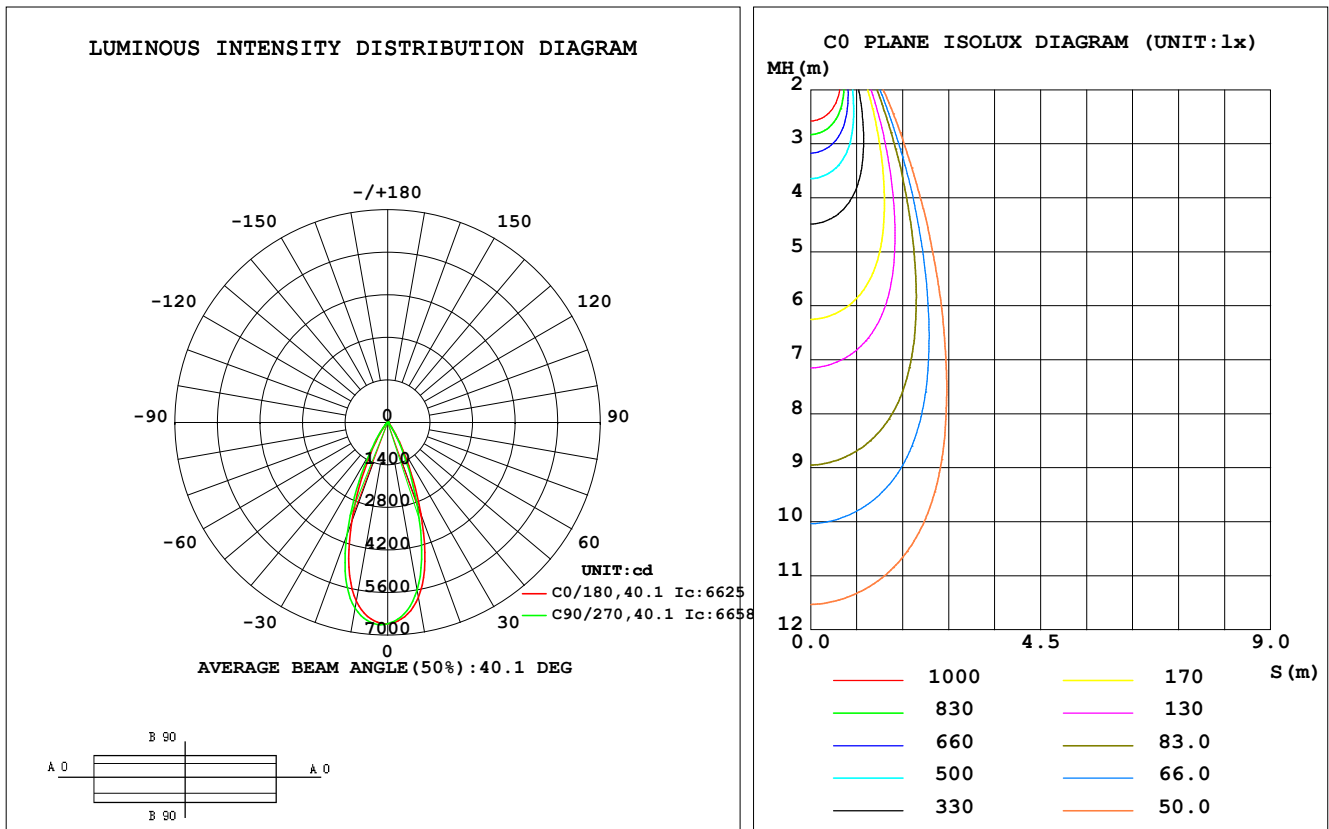


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:224.9V I:0.1810A P:39.70W PF:0.9770 Freq:50.00Hz Lamp Flux:3272.21x1 lm					
NAME: DP165RW-F01-40G30		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.:	
MFR.:		SUR.:155		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 82.42 lm/W
MODEL	3000K CRI90	I _{max} (cd)	6658	S/MH(C0/180)	0.64	
NOMINAL POWER(W)	40	LOR(%)	100.0	S/MH(C90/270)	0.68	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	3272.2	η UP,DN(C0-180)	0.0,44.9	
NOMINAL FLUX(lm)	3272.21	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,55.1	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	36	η down(%)	100.0	CIBSE SHR MAX	0.65	



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	5839	5626	5602	5740	5971	6126	6206	6153	0- 10	599.0	599.0	18.3,18.3
20	3207	2895	2802	2993	3457	3797	3925	3821	10- 20	1313	1912	58.4,58.4
30	889.1	778.4	726.1	791.9	1013	1174	1260	1196	20- 30	905.2	2817	86.1,86.1
40	173.3	145.6	132.1	151.3	220.1	244.8	258.0	249.9	30- 40	296.3	3113	95.1,95.1
50	35.06	28.85	28.07	30.57	63.01	73.13	79.70	76.92	40- 50	80.60	3194	97.6,97.6
60	16.96	16.35	15.88	15.71	34.74	36.71	38.28	37.38	50- 60	31.49	3225	98.6,98.6
70	11.93	11.42	11.09	10.98	23.44	24.47	25.12	24.96	60- 70	21.63	3247	99.2,99.2
80	8.315	7.777	6.807	7.445	15.21	15.56	15.16	15.84	70- 80	15.42	3262	99.7,99.7
90	5.944	6.045	6.090	6.047	9.567	9.763	9.868	9.764	80- 90	10.03	3272	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): 3163.7 lm

%lum = 96.7%

%lamp = 96.7%

Conical surface Flux(120deg): 3225.1 lm

%lum = 98.6%

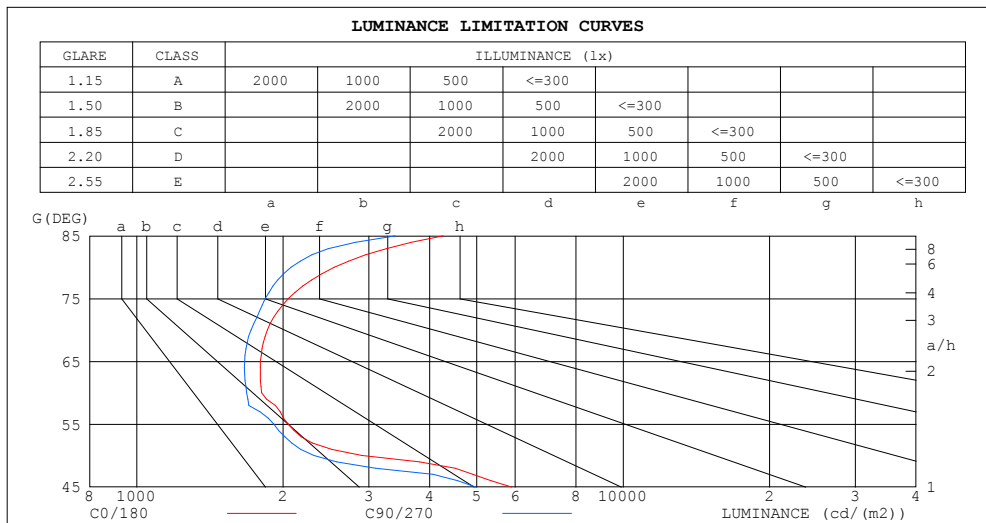
%lamp = 98.6%

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:0.1810A P:39.70W PF:0.9770 Freq:50.00Hz Lamp Flux:3272.21x1 lm		
NAME: DP165RW-F01-40G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:155	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4263	3395
80	2548	2076
75	2048	1838
70	1856	1717
65	1796	1666
60	1805	1682
55	2048	1914
50	2903	2313
45	5911	4988

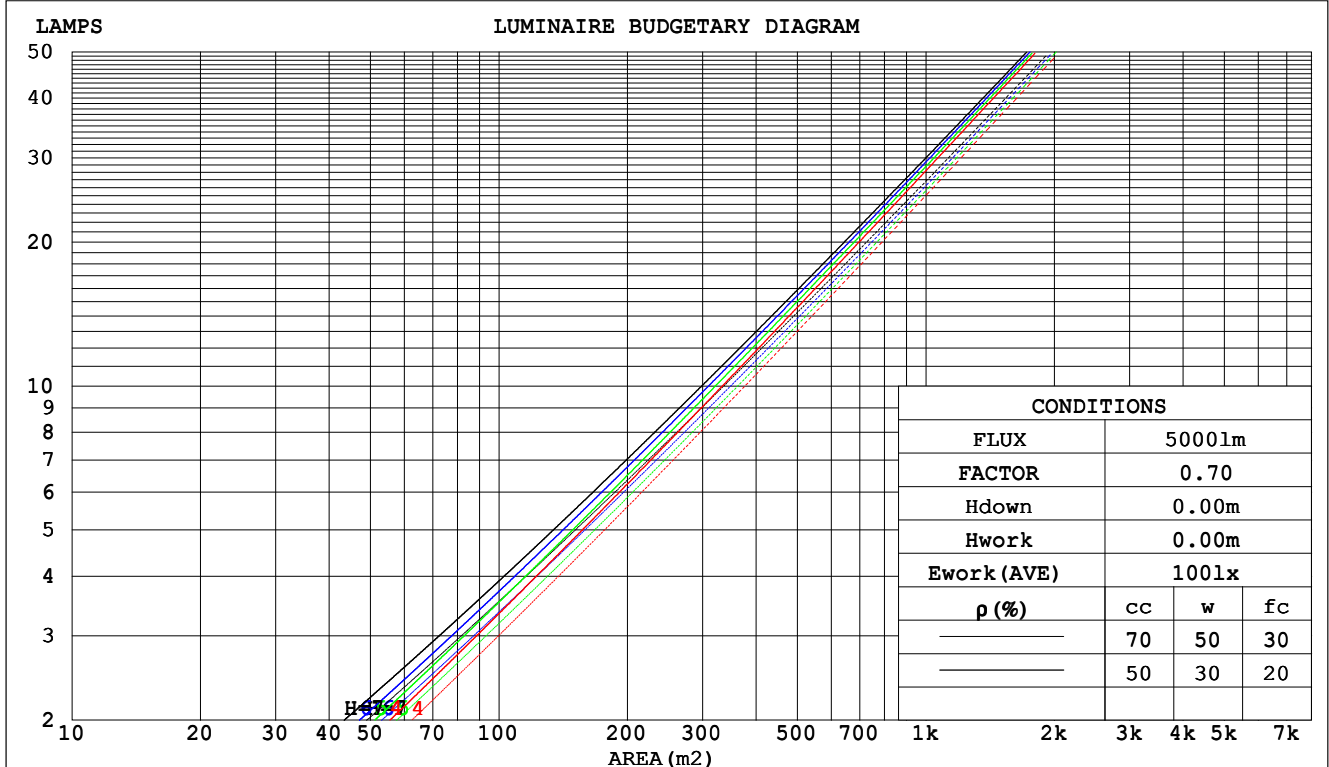
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZR
Test Date:2021-07-16

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:0.1810A P:39.70W PF:0.9770 Freq:50.00Hz Lamp Flux:3272.21x1 lm		
NAME: DP165RW-F01-40G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:155	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	1.09	1.07	1.09	1.07	1.05	1.05	1.04	1.02	1.02	1.00	.99	.98	.97	.96	.95
2.0	1.05	1.01	.98	1.03	.90	.97	.90	.97	.95	.97	.95	.93	.94	.92	.91	.89
3.0	.99	.94	.91	.98	.93	.90	.95	.92	.89	.93	.90	.87	.90	.88	.86	.85
4.0	.94	.89	.85	.93	.88	.85	.90	.87	.84	.89	.85	.83	.87	.84	.82	.80
5.0	.89	.84	.80	.88	.83	.80	.86	.82	.79	.85	.81	.78	.83	.80	.78	.76
6.0	.85	.79	.76	.84	.79	.75	.82	.78	.75	.81	.77	.75	.80	.77	.74	.73
7.0	.81	.76	.72	.80	.75	.72	.79	.75	.71	.78	.74	.71	.77	.73	.71	.69
8.0	.77	.72	.68	.77	.72	.68	.76	.71	.68	.75	.71	.68	.74	.70	.68	.66
9.0	.74	.69	.65	.73	.69	.65	.73	.68	.65	.72	.68	.65	.71	.67	.65	.63
10.0	.71	.66	.63	.70	.66	.62	.70	.65	.62	.69	.65	.62	.68	.65	.62	.61



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:0.1810A P:39.70W PF:0.9770 Freq:50.00Hz Lamp Flux:3272.21x1 lm					
NAME: DP165RW-F01-40G30			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.:			SUR.:155		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	.165	.094	.030	.158	.090	.029	.146	.084	.027	.134	.077	.025	.123	.072	.023		
2.0	.154	.085	.026	.149	.082	.025	.138	.077	.024	.129	.072	.023	.120	.068	.021		
3.0	.145	.077	.023	.140	.075	.023	.131	.071	.022	.123	.067	.021	.116	.064	.020		
4.0	.137	.071	.021	.133	.069	.021	.125	.066	.020	.118	.063	.019	.112	.061	.018		
5.0	.129	.066	.019	.126	.065	.019	.119	.062	.018	.113	.060	.018	.108	.058	.017		
6.0	.123	.062	.018	.120	.061	.017	.114	.059	.017	.109	.057	.017	.104	.055	.016		
7.0	.117	.058	.016	.115	.057	.016	.110	.055	.016	.105	.054	.016	.100	.052	.015		
8.0	.112	.055	.015	.110	.054	.015	.105	.053	.015	.101	.051	.015	.097	.050	.015		
9.0	.107	.052	.014	.105	.051	.014	.101	.050	.014	.097	.049	.014	.094	.048	.014		
10.0	.103	.049	.014	.101	.049	.014	.097	.048	.013	.094	.047	.013	.091	.046	.013		

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	.170	.157	.146	.146	.135	.126	.100	.093	.087	.057	.054	.050	.018	.017	.016	
2.0	.154	.133	.115	.132	.114	.099	.090	.079	.069	.052	.046	.041	.017	.015	.013	
3.0	.140	.113	.092	.120	.098	.080	.083	.068	.056	.048	.040	.033	.015	.013	.011	
4.0	.129	.098	.075	.111	.085	.065	.076	.059	.046	.044	.035	.027	.014	.011	.009	
5.0	.120	.087	.062	.103	.075	.054	.071	.052	.038	.041	.031	.023	.013	.010	.007	
6.0	.112	.077	.052	.096	.067	.045	.066	.047	.032	.038	.027	.019	.012	.009	.006	
7.0	.105	.069	.044	.090	.060	.039	.062	.042	.027	.036	.025	.016	.012	.008	.005	
8.0	.099	.063	.038	.085	.054	.033	.059	.038	.024	.034	.023	.014	.011	.007	.005	
9.0	.093	.057	.033	.080	.050	.029	.056	.035	.020	.032	.021	.012	.010	.007	.004	
10.0	.089	.053	.029	.076	.046	.025	.053	.032	.018	.031	.019	.011	.010	.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:0.1810A P:39.70W PF:0.9770 Freq:50.00Hz Lamp Flux:3272.21x1 lm											
NAME: DP165RW-F01-40G30					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.:					SUR.:155			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	7.5	8.4	7.8	8.5	8.7	6.5	7.3	6.7	7.5	7.7	
	3H	7.6	8.4	7.9	8.6	8.8	6.6	7.4	6.9	7.6	7.8
	4H	7.7	8.4	8.0	8.6	8.9	6.8	7.5	7.0	7.7	7.9
	6H	7.9	8.6	8.2	8.8	9.0	6.9	7.6	7.2	7.8	8.1
	8H	8.0	8.7	8.3	8.9	9.2	7.0	7.7	7.3	7.9	8.2
	12H	8.2	8.8	8.5	9.1	9.3	7.1	7.8	7.5	8.0	8.3
4H	2H	7.4	8.1	7.7	8.3	8.5	6.4	7.1	6.7	7.3	7.6
	3H	7.6	8.2	7.9	8.5	8.7	6.6	7.3	7.0	7.5	7.8
	4H	7.7	8.3	8.1	8.6	8.9	6.9	7.4	7.2	7.7	8.0
	6H	8.1	8.6	8.4	8.9	9.2	7.2	7.7	7.5	8.0	8.3
	8H	8.3	8.7	8.7	9.1	9.5	7.3	7.8	7.7	8.1	8.5
	12H	8.6	9.0	9.0	9.4	9.8	7.6	8.0	8.0	8.4	8.8
8H	4H	7.8	8.2	8.1	8.6	8.9	6.9	7.4	7.3	7.7	8.1
	6H	8.2	8.6	8.6	9.0	9.4	7.4	7.7	7.8	8.1	8.6
	8H	8.5	8.9	9.0	9.3	9.7	7.6	8.0	8.1	8.4	8.8
	12H	9.0	9.3	9.5	9.8	10.2	8.0	8.3	8.5	8.8	9.2
12H	4H	7.7	8.2	8.1	8.5	8.9	6.9	7.3	7.3	7.7	8.1
	6H	8.2	8.6	8.7	9.0	9.4	7.4	7.8	7.9	8.2	8.6
	8H	8.6	8.9	9.1	9.4	9.8	7.7	8.0	8.2	8.5	9.0
Variations with the observer position at spacings:											
S = 1.0H	+ 2.0 / - 1.9					+ 1.6 / - 1.8					
1.5H	+ 3.8 / - 1.9					+ 3.2 / - 1.8					
2.0H	+ 2.0 / - 0.6					+ 1.8 / - 0.5					

CIE Pub.117, 3272 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 4.1$)

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:

UTILIZATION FACTORS TABLE

Test:U:224.9V I:0.1810A P:39.70W PF:0.9770 Freq:50.00Hz Lamp Flux:3272.21x1 lm		
NAME: DP165RW-F01-40G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:155	Shielding Angle:

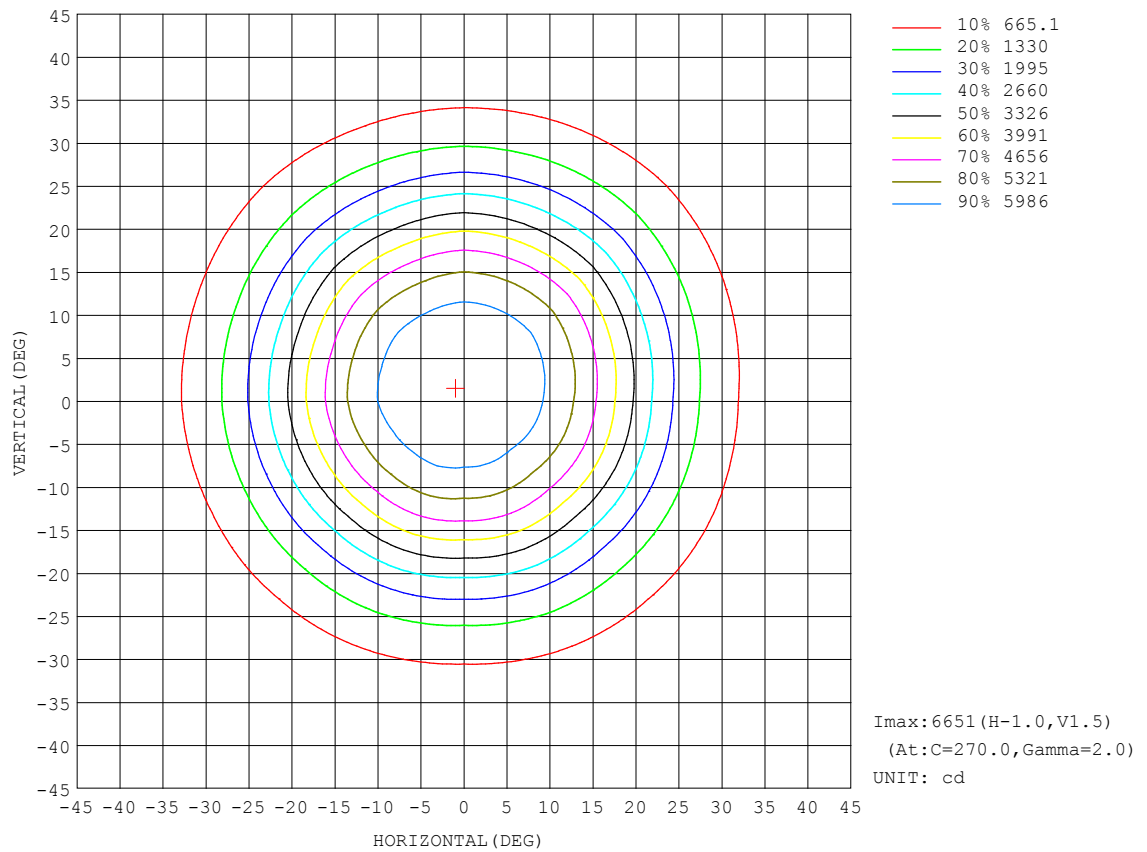
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	89	82	79	88	82	79	87	82	79	75
0.80	96	90	87	95	90	86	94	89	86	82
1.00	100	94	91	99	94	91	97	94	90	86
1.25	104	99	95	103	98	95	101	97	94	90
1.50	106	102	98	105	101	98	103	99	97	92
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	104	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:224.9V I:0.1810A P:39.70W PF:0.9770 Freq:50.00Hz Lamp Flux:3272.21x1 lm		
NAME: DP165RW-F01-40G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:155	Shielding Angle:

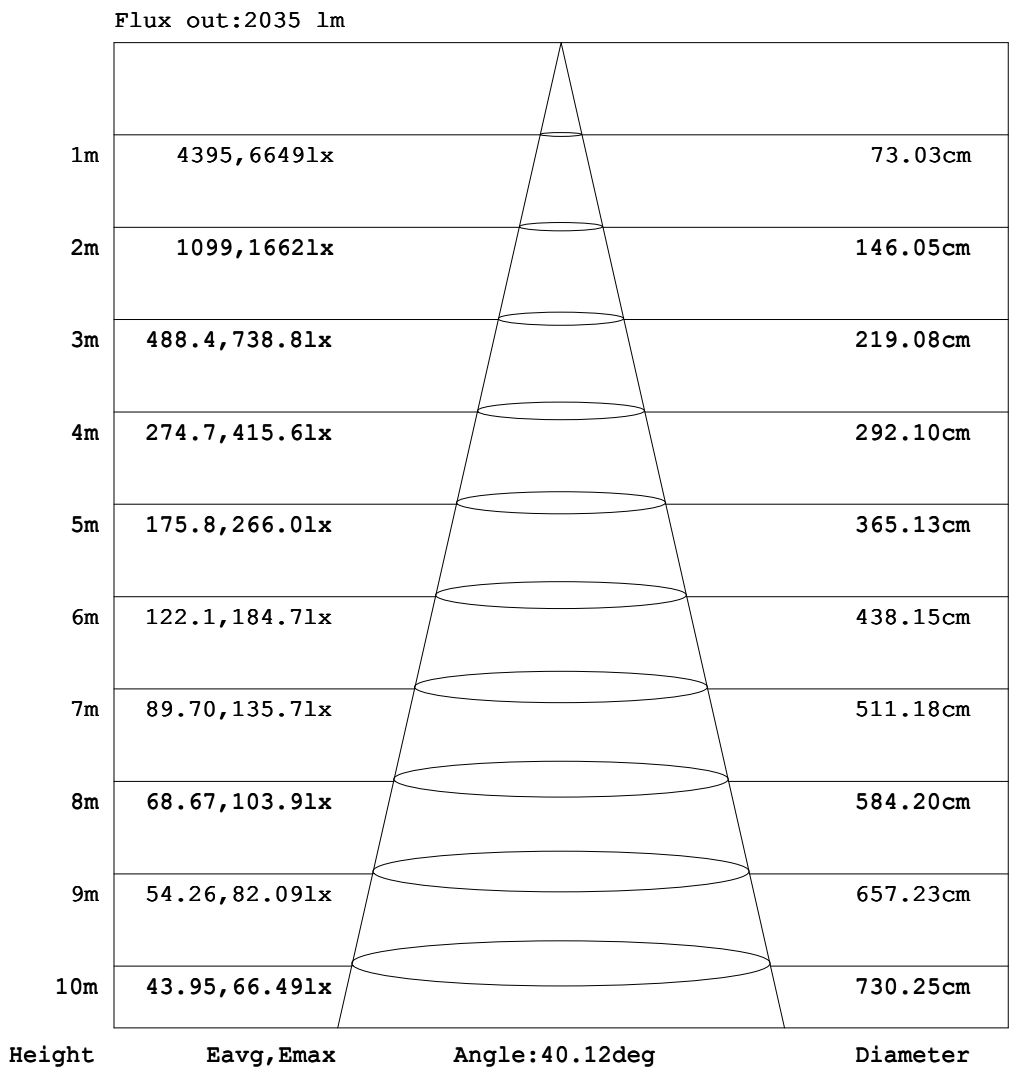


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZR
Test Date:2021-07-16

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:0.1810A P:39.70W PF:0.9770 Freq:50.00Hz Lamp Flux:3272.21x1 lm		
NAME: DP165RW-F01-40G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:155	Shielding Angle:



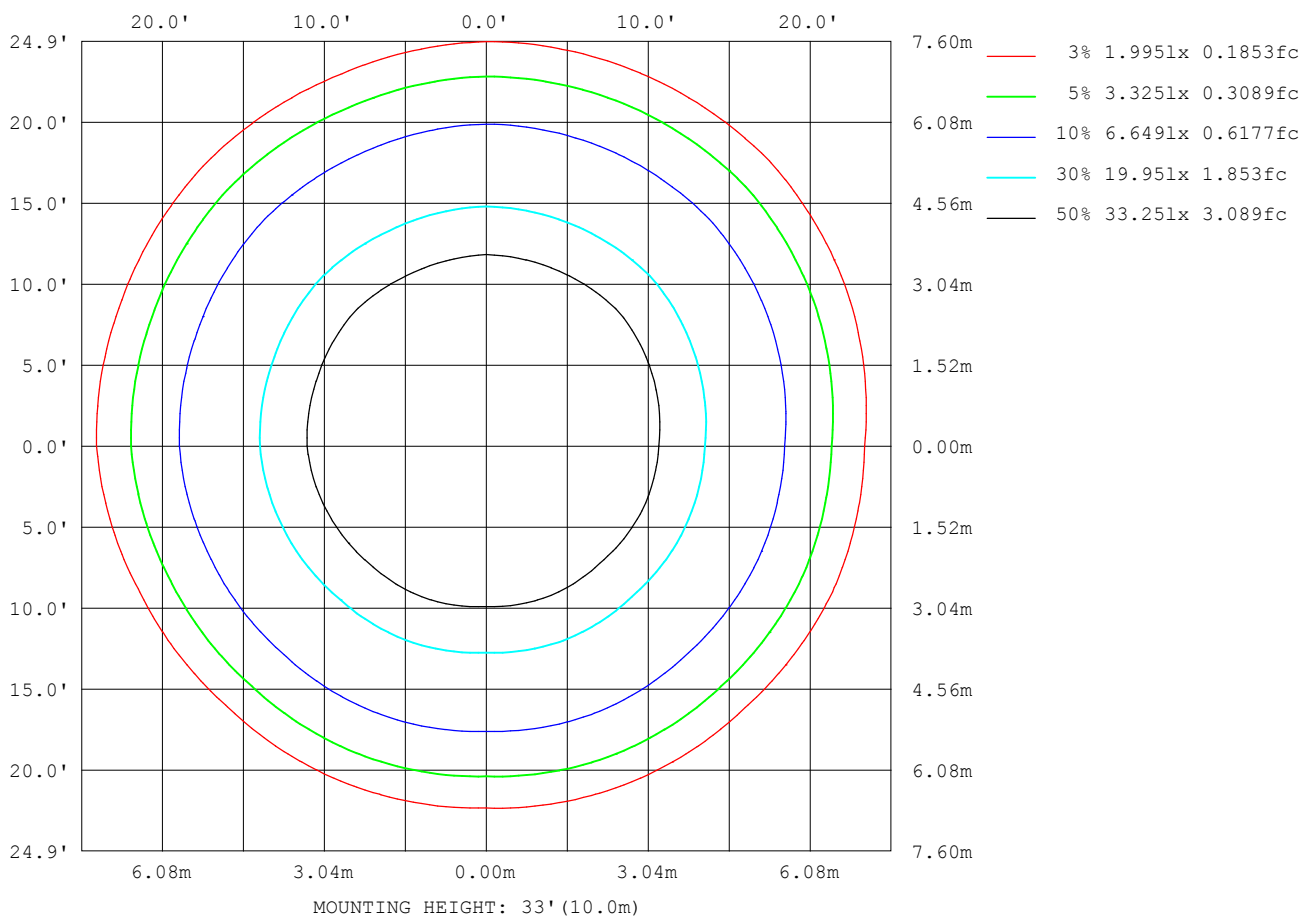
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.1810A P:39.70W PF:0.9770 Freq:50.00Hz Lamp Flux:3272.21x1 lm		
NAME: DP165RW-F01-40G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:155	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:0.1810A P:39.70W PF:0.9770 Freq:50.00Hz Lamp Flux:3272.21x1 lm		
NAME: DP165RW-F01-40G30	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:155	Shielding Angle:

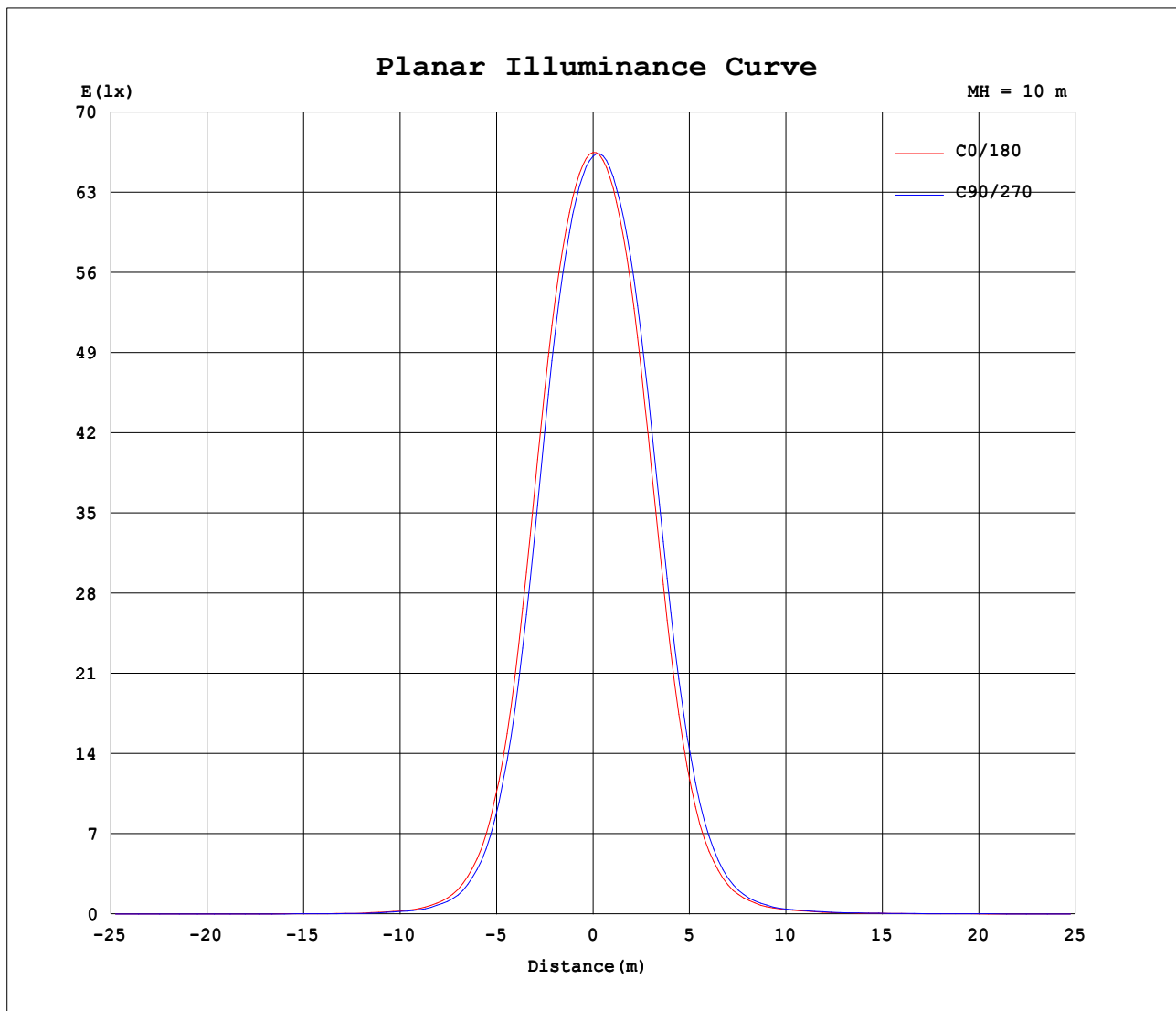
AvgL	cd/m2
L_0~180 (65) av	2694
L_0~180 (75) av	2968
L_0~180 (85) av	5794
L_90~270 (65) av	2761
L_90~270 (75) av	2955
L_90~270 (85) av	5147
L_45 (65) av	2734
L_45 (75) av	3016
L_45 (85) av	5305

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:

```