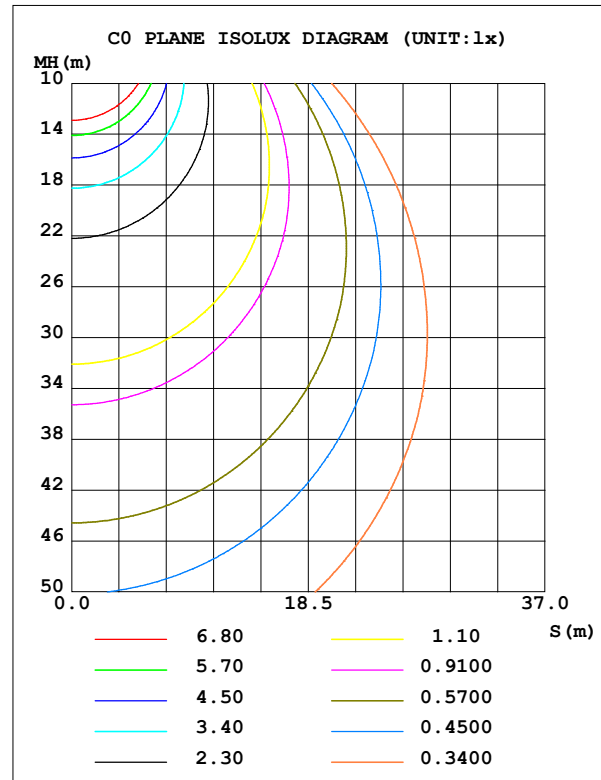
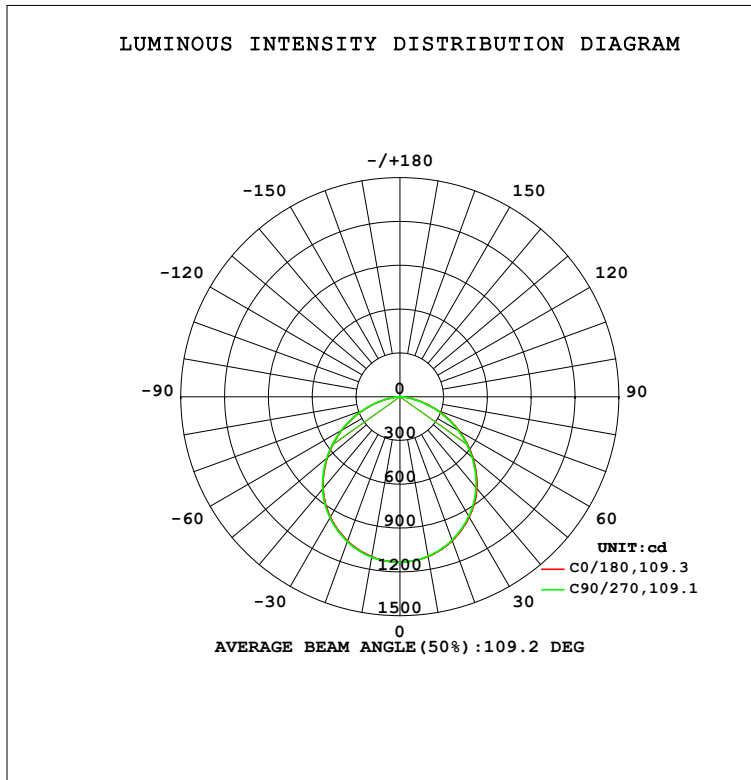


**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:239.81V I:0.1374A P:31.268W PF:0.9491 Freq:50.08Hz Lamp Flux:3077.71x1 lm		
NAME: DEEP C 385 LED_WHT_CLE 315mm ADV4_900mA_3K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 98.43 lm/W
MODEL	CLE 315mm 4000lm ADV4	I <sub>max</sub> (cd)	1133	S/MH (C0/180)	1.25	
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.26	
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	3077.7	η UP,DN (C0-180)	0.0,49.8	
NOMINAL FLUX (lm)	3077.71	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,50.2	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25	
TEST VOLTAGE (V)	230	η down (%)	100.0	CIBSE SHR MAX	1.35	



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:03 September 2020

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.250m [K=1.0000]  
Remarks:

### ZONAL FLUX DIAGRAM

#### ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	1111	1109	1109	1111	1113	1114	1115	1115	0- 10	107.2	107.2	3.48,3.48
20	1049	1045	1044	1047	1051	1054	1056	1054	10- 20	306.5	413.6	13.4,13.4
30	950.4	945.7	944.5	947.5	952.3	955.8	957.6	956.6	20- 30	463.1	876.7	28.5,28.5
40	819.7	814.5	811.4	813.5	819.3	822.9	824.1	823.7	30- 40	556.4	1433	46.6,46.6
50	653.5	649.3	645.0	645.1	649.9	653.1	654.8	655.9	40- 50	568.7	2002	65,65
60	467.9	465.3	460.2	458.1	461.2	463.6	465.9	468.5	50- 60	499.2	2501	81.3,81.3
70	274.4	272.7	267.5	264.1	265.6	267.1	269.9	273.4	60- 70	362.6	2864	93,93
80	86.89	85.48	81.46	78.75	79.67	80.67	82.36	85.60	70- 80	183.5	3047	99,99
90	2.166	2.260	1.787	1.692	1.761	1.733	1.783	2.134	80- 90	30.61	3078	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): 1721.2 lm

%lum = 55.9%

%lamp = 55.9%

Conical surface Flux(120deg): 2501 lm

%lum = 81.3%

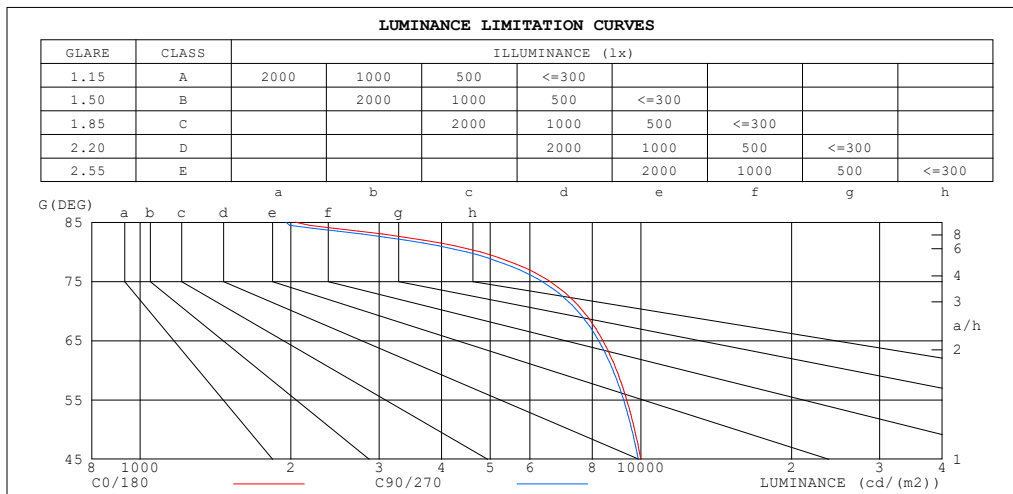
%lamp = 81.3%

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:03 September 2020

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.250m [K=1.0000]  
Remarks:

**LUMINANCE LIMITATION CURVES**

Test:U:239.81V I:0.1374A P:31.268W PF:0.9491 Freq:50.08Hz Lamp Flux:3077.71x1 lm		
NAME: DEEP C 385 LED_WHT_CLE 315mm ADV4_900mA_3K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	2042	1953
80	4783	4485
75	6584	6347
70	7670	7477
65	8402	8238
60	8946	8799
55	9372	9238
50	9719	9593
45	10000	9886

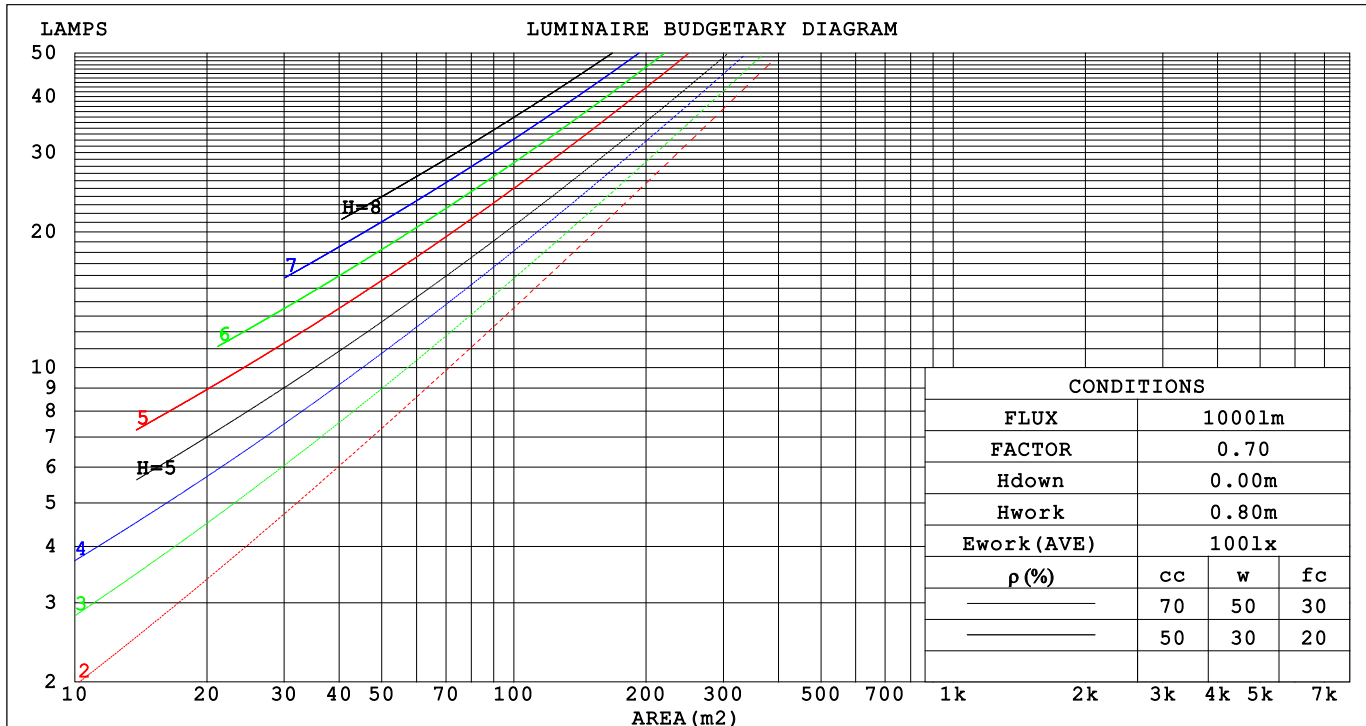
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:03 September 2020

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.250m [K=1.0000]  
Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:239.81V I:0.1374A P:31.268W PF:0.9491 Freq:50.08Hz Lamp Flux:3077.71x1 lm		
NAME: DEEP C 385 LED_WHT_CLE 315mm ADV4_900mA_3K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	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															



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:03 September 2020

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.250m [K=1.0000]  
Remarks:

**WEC AND CCEC**

Test:U:239.81V I:0.1374A P:31.268W PF:0.9491 Freq:50.08Hz Lamp Flux:3077.71x1 lm		
NAME: DEEP C 385 LED_WHT_CLE 315mm ADV4_900mA_3K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	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	.294	.167	.053	.286	.163	.052	.273	.157	.050	.261	.151	.048	.250	.145	.047	
2.0	.281	.154	.047	.275	.151	.047	.263	.146	.045	.252	.142	.044	.242	.137	.043	
3.0	.262	.140	.042	.257	.137	.041	.246	.134	.041	.237	.130	.040	.228	.126	.039	
4.0	.243	.126	.037	.239	.125	.037	.229	.122	.036	.221	.119	.036	.213	.116	.035	
5.0	.226	.115	.033	.222	.114	.033	.214	.111	.033	.206	.109	.032	.199	.106	.032	
6.0	.210	.105	.030	.206	.104	.030	.199	.102	.030	.192	.100	.029	.186	.098	.029	
7.0	.196	.097	.027	.193	.096	.027	.186	.094	.027	.180	.092	.027	.174	.091	.027	
8.0	.183	.090	.025	.180	.089	.025	.175	.087	.025	.169	.086	.025	.164	.084	.025	
9.0	.172	.083	.023	.169	.083	.023	.164	.081	.023	.159	.080	.023	.155	.079	.023	
10.0	.162	.078	.022	.160	.077	.021	.155	.076	.021	.150	.075	.021	.146	.074	.021	

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	.179	.156	.136	.153	.134	.117	.105	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.171	.132	.099	.146	.114	.086	.100	.079	.060	.058	.046	.035	.019	.015	.011	
3.0	.163	.114	.075	.140	.099	.065	.096	.068	.046	.055	.040	.027	.018	.013	.009	
4.0	.155	.101	.059	.133	.087	.051	.092	.061	.036	.053	.036	.021	.017	.012	.007	
5.0	.148	.090	.048	.127	.078	.042	.088	.055	.029	.051	.032	.017	.016	.010	.006	
6.0	.141	.082	.040	.121	.071	.035	.084	.050	.024	.049	.029	.015	.016	.010	.005	
7.0	.134	.075	.034	.116	.065	.029	.080	.046	.021	.046	.027	.012	.015	.009	.004	
8.0	.128	.069	.029	.110	.060	.025	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.122	.064	.025	.105	.056	.022	.073	.039	.016	.042	.023	.009	.014	.008	.003	
10.0	.116	.060	.023	.100	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:03 September 2020

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.250m [K=1.0000]  
Remarks:

**UGR(Unified Glare Rating) Table**

Test:U:239.81V I:0.1374A P:31.268W PF:0.9491 Freq:50.08Hz Lamp Flux:3077.71x1 lm											
NAME: DEEP C 385 LED_WHT_CLE 315mm ADV4_900mA_3K						TYPE:LED			WEIGHT:		
SPEC.:						DIM.:			SERIAL No.:		
MFR.: DARKON						SUR.:			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	2H	16.7	18.2	17.0	18.4	18.6	16.7	18.2	16.9	18.4	18.6
	3H	18.1	19.5	18.4	19.7	19.9	18.0	19.4	18.3	19.6	19.9
	4H	18.6	19.9	18.9	20.1	20.4	18.5	19.8	18.8	20.0	20.3
	6H	18.8	20.1	19.2	20.3	20.6	18.7	19.9	19.0	20.2	20.5
	8H	18.8	20.0	19.2	20.3	20.6	18.7	19.9	19.1	20.2	20.5
	12H	18.8	20.0	19.2	20.3	20.6	18.7	19.8	19.0	20.1	20.4
4H	2H	17.3	18.6	17.6	18.9	19.1	17.3	18.6	17.6	18.8	19.1
	3H	18.8	20.0	19.2	20.3	20.6	18.8	19.9	19.1	20.2	20.5
	4H	19.4	20.5	19.8	20.8	21.1	19.3	20.4	19.7	20.7	21.0
	6H	19.8	20.7	20.2	21.0	21.4	19.7	20.6	20.1	20.9	21.3
	8H	19.8	20.7	20.2	21.0	21.4	19.7	20.6	20.1	20.9	21.3
	12H	19.8	20.6	20.2	21.0	21.4	19.7	20.5	20.1	20.9	21.3
8H	4H	19.6	20.5	20.0	20.8	21.2	19.5	20.4	19.9	20.8	21.1
	6H	20.0	20.7	20.5	21.1	21.6	19.9	20.7	20.4	21.1	21.5
	8H	20.1	20.7	20.6	21.2	21.6	20.0	20.6	20.5	21.1	21.5
	12H	20.1	20.7	20.6	21.1	21.6	20.0	20.6	20.5	21.0	21.5
12H	4H	19.6	20.4	20.0	20.8	21.2	19.5	20.3	19.9	20.7	21.1
	6H	20.0	20.7	20.5	21.1	21.5	20.0	20.6	20.4	21.0	21.5
	8H	20.1	20.7	20.6	21.1	21.6	20.0	20.6	20.5	21.0	21.5
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.4					
2.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.3					

CIE Pub.117, 3078 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.9)

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:03 September 2020

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.250m [K=1.0000]  
Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:239.81V I:0.1374A P:31.268W PF:0.9491 Freq:50.08Hz Lamp Flux:3077.71x1 lm		
NAME: DEEP C 385 LED_WHT_CLE 315mm ADV4_900mA_3K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

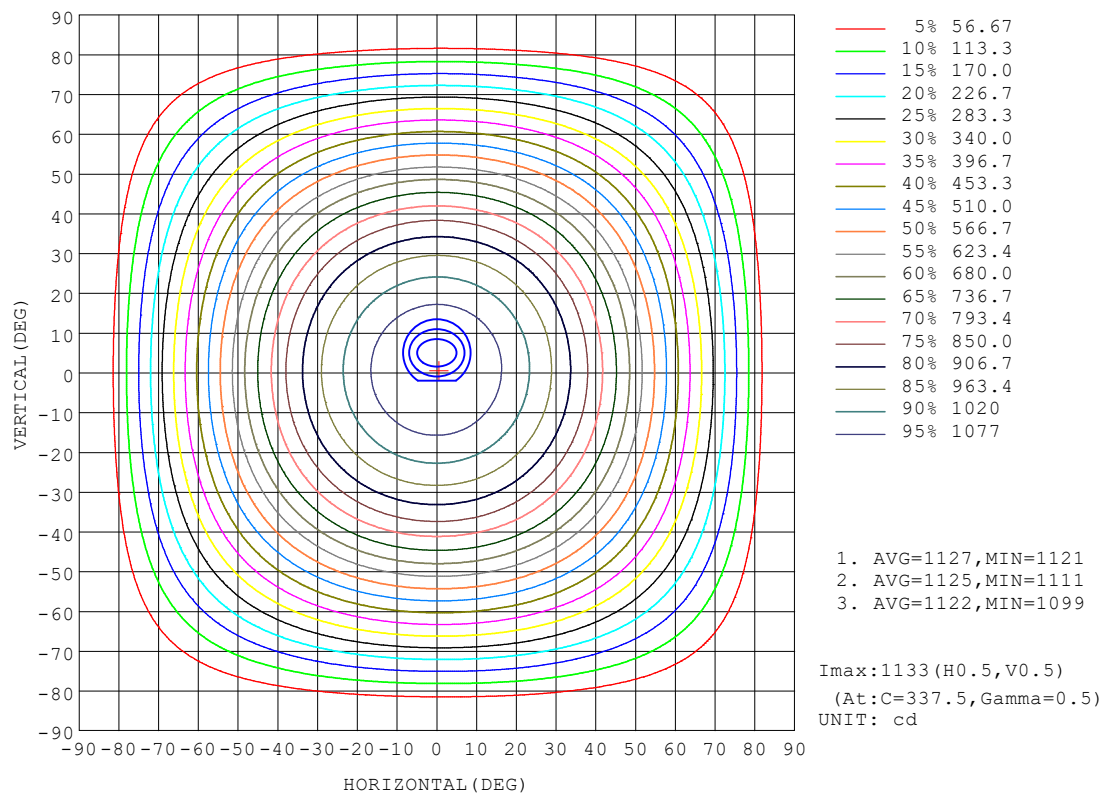
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	59	47	40	58	47	40	57	46	40	34
0.80	69	57	50	68	57	50	66	56	50	43
1.00	77	66	59	76	66	59	74	67	58	51
1.25	84	74	67	83	73	67	80	72	66	59
1.50	89	80	73	88	79	72	85	77	71	64
2.00	96	88	82	94	87	81	91	84	79	72
2.50	100	92	87	98	91	86	94	88	84	76
3.00	103	97	91	101	95	90	97	92	88	80
4.00	107	102	97	105	100	96	100	96	93	84
5.00	109	105	101	107	103	99	102	99	96	87
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: MEDIUM  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:03 September 2020

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.250m [K=1.0000]  
Remarks:

**ISOCANDELA DIAGRAM**

Test:U:239.81V I:0.1374A P:31.268W PF:0.9491 Freq:50.08Hz Lamp Flux:3077.71x1 lm		
NAME: DEEP C 385 LED_WHT_CLE 315mm ADV4_900mA_3K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



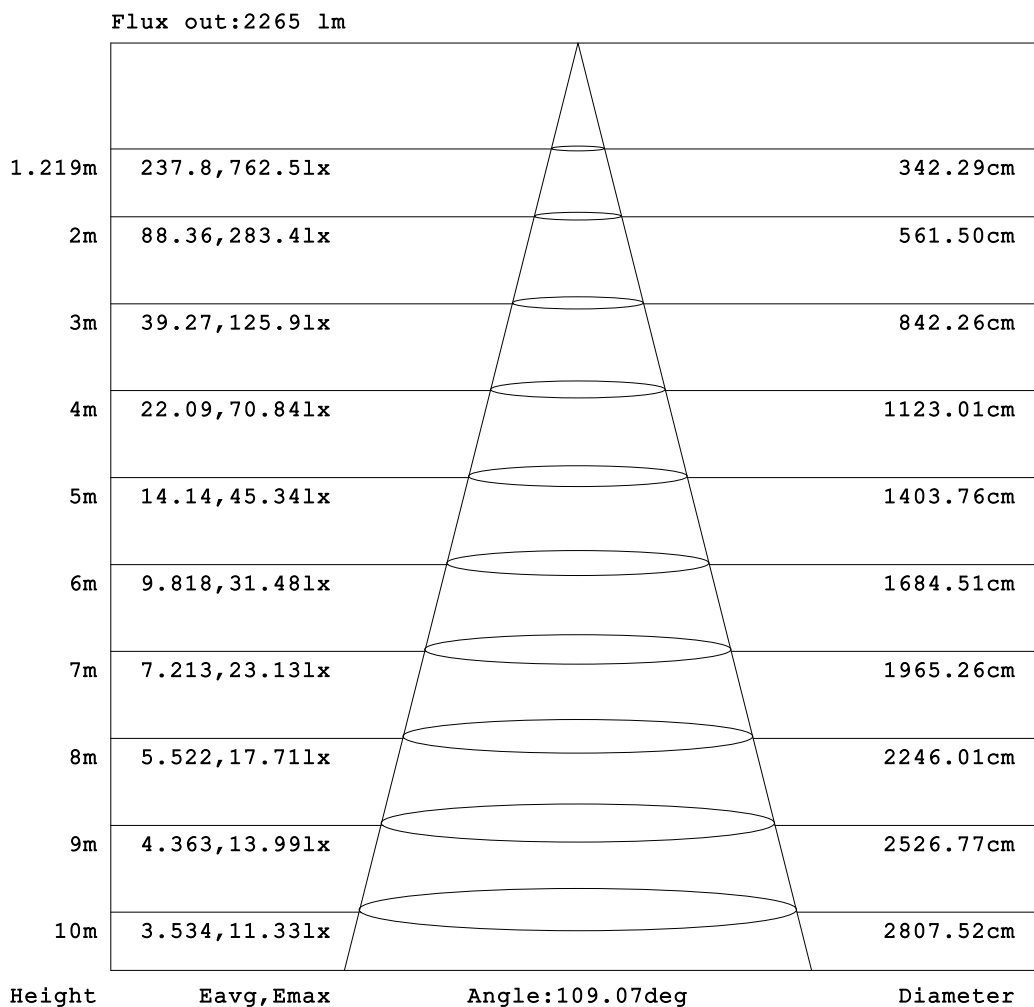
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:03 September 2020

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.250m [K=1.0000]  
Remarks:



**AAI Figure**

Test:U:239.81V I:0.1374A P:31.268W PF:0.9491 Freq:50.08Hz Lamp Flux:3077.71x1 lm		
NAME: DEEP C 385 LED_WHT_CLE 315mm ADV4_900mA_3K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



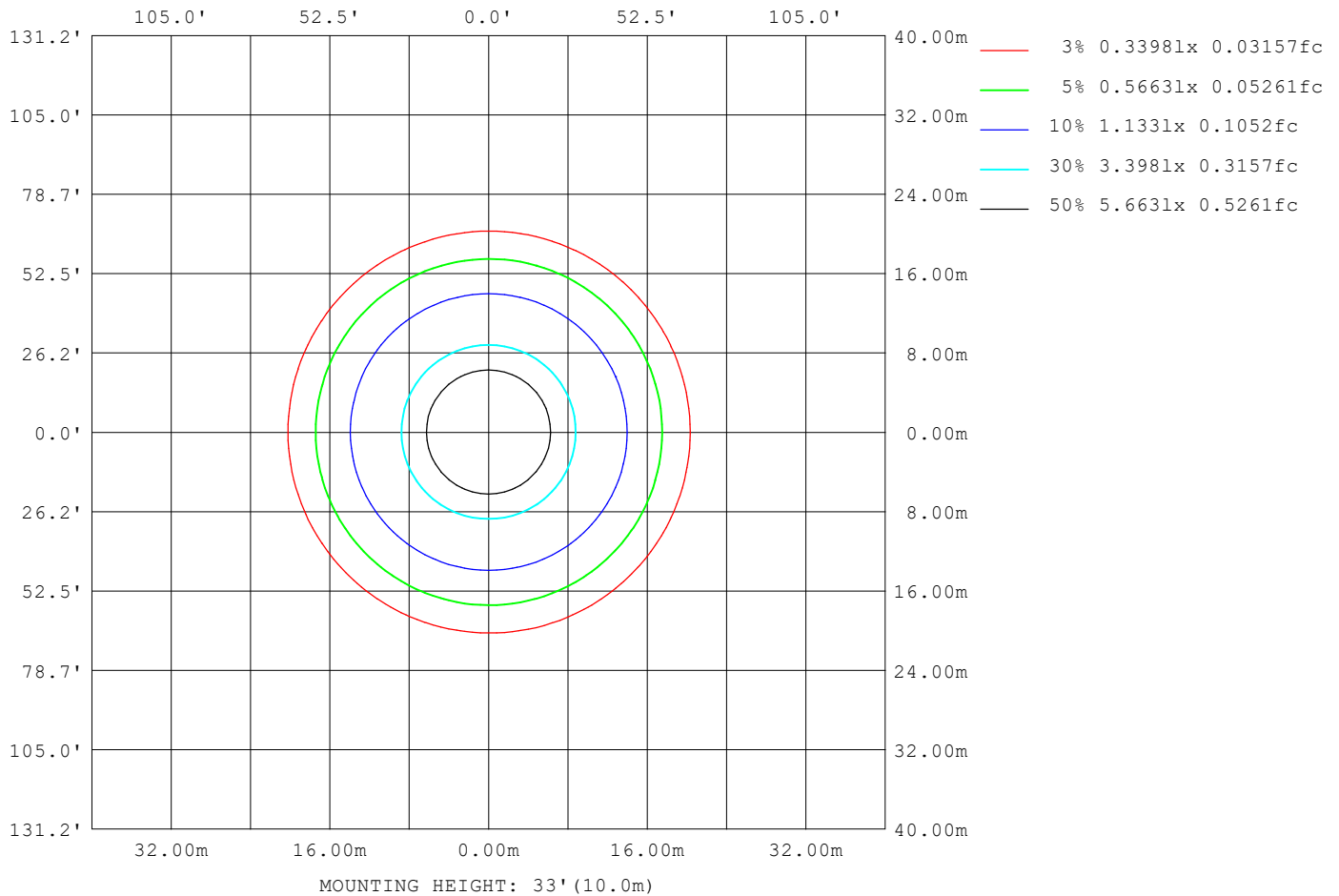
**Note:**The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:03 September 2020

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.250m [K=1.0000]  
Remarks:

**ISOLUX DIAGRAM**

Test:U:239.81V I:0.1374A P:31.268W PF:0.9491 Freq:50.08Hz Lamp Flux:3077.71x1 lm		
NAME: DEEP C 385 LED_WHT_CLE 315mm ADV4_900mA_3K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:03 September 2020

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.250m [K=1.0000]  
Remarks:

**LED Avg.L Report**

Test:U:239.81V I:0.1374A P:31.268W PF:0.9491 Freq:50.08Hz Lamp Flux:3077.71x1 lm		
NAME: DEEP C 385 LED_WHT_CLE 315mm ADV4_900mA_3K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

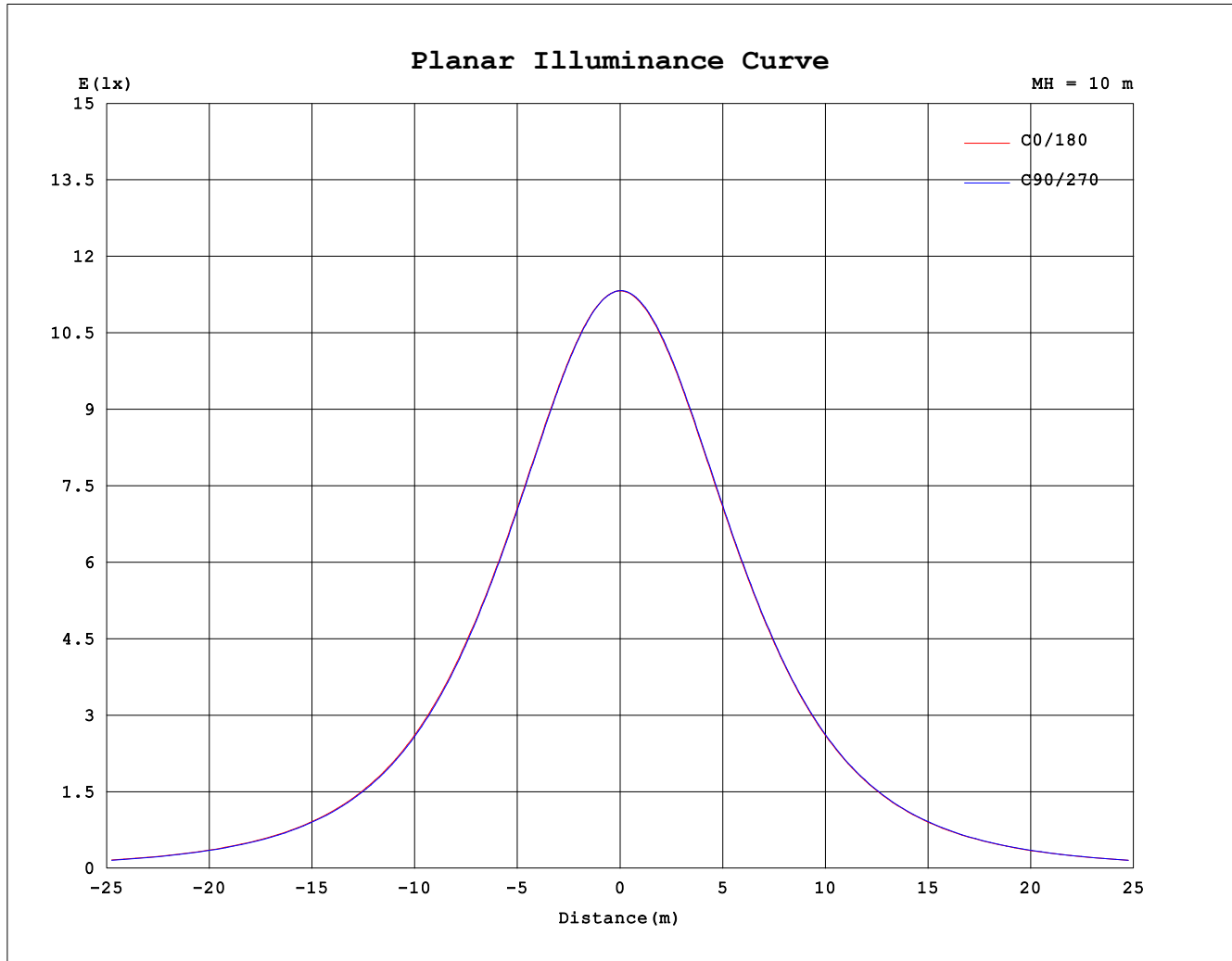
AvgL	cd/m2
L_0~180 (65) av	8311
L_0~180 (75) av	6433
L_0~180 (85) av	1991
L_90~270 (65) av	8281
L_90~270 (75) av	6385
L_90~270 (85) av	1998
L_45 (65) av	8297
L_45 (75) av	6409
L_45 (85) av	1993

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:03 September 2020

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.250m [K=1.0000]  
Remarks:

### Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: MEDIUM  
Temperature: 25.3DEG  
Operators: JEFF  
Test Date: 03 September 2020

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity: 65.0%  
Test Distance: 7.250m [K=1.0000]  
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

```