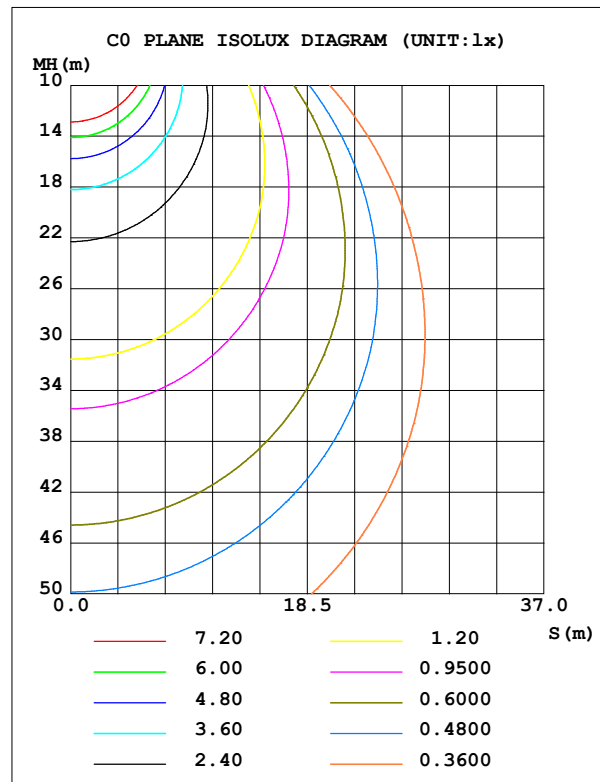
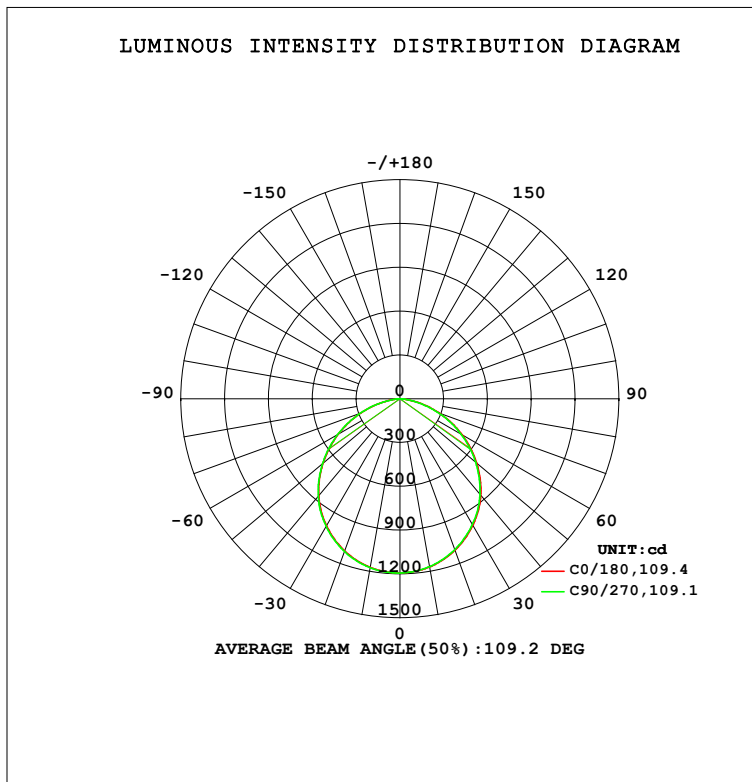


**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:239.94V I:0.1376A P:31.320W PF:0.9488 Freq:50.08Hz Lamp Flux:3244.15x1 lm		
NAME: DEEP C 385 LED_WHT_CLE 315mm ADV4_900mA_4K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 103.58 lm/W
MODEL	315mm 4000lm ADV4 4000K	I <sub>max</sub> (cd)	1194	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)	3244.2	η UP,DN (C0-180)	0.0,49.7	
NOMINAL FLUX (lm)	3244.15	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,50.3	
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	1170	1167	1168	1170	1173	1175	1175	1174	0- 10	112.9	112.9	3.48,3.48
20	1104	1099	1099	1103	1109	1112	1113	1111	10- 20	322.8	435.7	13.4,13.4
30	999.8	994.2	993.9	998.1	1005	1009	1011	1008	20- 30	487.9	923.6	28.5,28.5
40	861.7	855.4	853.3	856.7	865.8	870.8	870.6	868.7	30- 40	586.4	1510	46.5,46.5
50	686.4	680.8	677.7	679.4	687.9	692.5	692.5	692.1	40- 50	599.5	2110	65,65
60	491.0	486.6	482.8	482.3	489.3	493.1	493.7	494.7	50- 60	526.4	2636	81.3,81.3
70	286.7	283.4	279.5	277.6	282.9	286.1	287.1	289.0	60- 70	382.4	3018	93,93
80	89.09	86.40	83.51	82.26	86.45	89.07	89.46	91.11	70- 80	193.5	3212	99,99
90	1.937	1.990	1.774	1.777	2.044	2.335	2.250	2.438	80- 90	32.29	3244	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): 1813.8 lm

%lum = 55.9%

%lamp = 55.9%

Conical surface Flux(120deg): 2635.9 lm

%lum = 81.3%

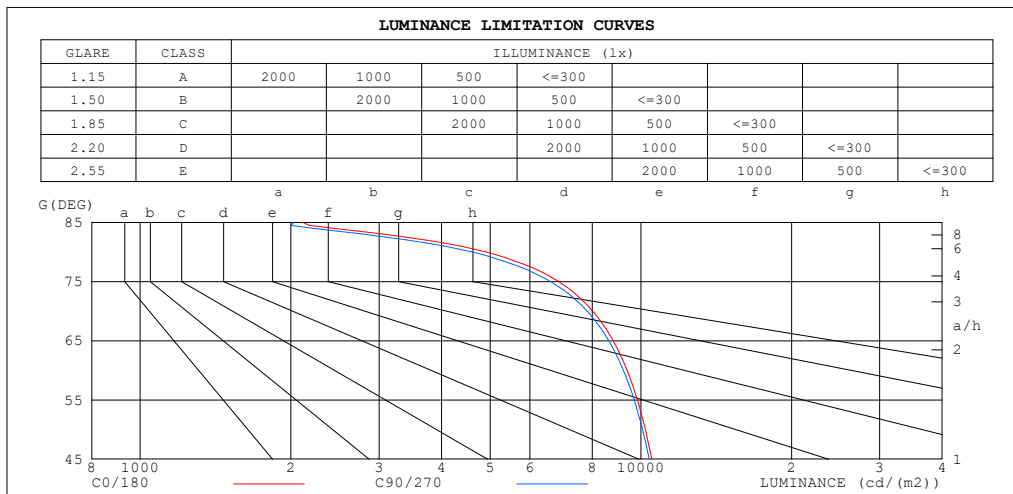
%lamp = 81.3%

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:239.94V I:0.1376A P:31.320W PF:0.9488 Freq:50.08Hz Lamp Flux:3244.15x1 lm		
NAME: DEEP C 385 LED_WHT_CLE 315mm ADV4_900mA_4K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	2105	2030
80	4905	4598
75	6845	6598
70	8013	7813
65	8801	8626
60	9388	9230
55	9840	9699
50	10208	10079
45	10513	10391

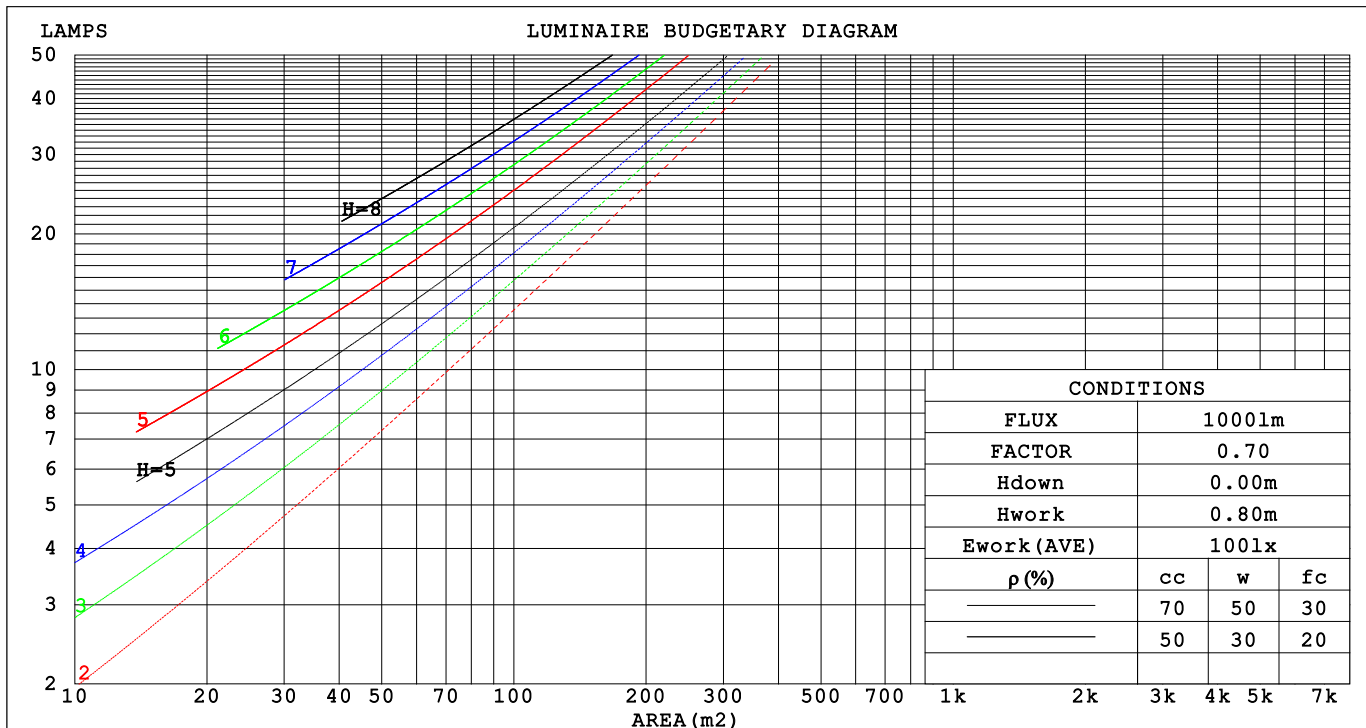
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:JEFF  
 Test Date:03 September 2020

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:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:239.94V I:0.1376A P:31.320W PF:0.9488 Freq:50.08Hz Lamp Flux:3244.15x1 lm		
NAME: DEEP C 385 LED_WHT_CLE 315mm ADV4_900mA_4K	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:239.94V I:0.1376A P:31.320W PF:0.9488 Freq:50.08Hz Lamp Flux:3244.15x1 lm		
NAME: DEEP C 385 LED_WHT_CLE 315mm ADV4_900mA_4K	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	.287	.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	.243	.137	.043	
3.0	.262	.140	.042	.257	.138	.041	.247	.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	.175	.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	.151	.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:239.94V I:0.1376A P:31.320W PF:0.9488 Freq:50.08Hz Lamp Flux:3244.15x1 lm											
NAME: DEEP C 385 LED_WHT_CLE 315mm ADV4_900mA_4K					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	16.6	18.1	16.9	18.3	18.5
	3H	18.1	19.4	18.3	19.7	19.9	18.0	19.4	18.3	19.6	19.8
	4H	18.5	19.8	18.8	20.1	20.3	18.4	19.7	18.7	20.0	20.2
	6H	18.8	20.0	19.1	20.3	20.5	18.6	19.9	19.0	20.2	20.4
	8H	18.8	20.0	19.1	20.2	20.5	18.7	19.8	19.0	20.1	20.4
	12H	18.7	19.9	19.1	20.2	20.5	18.6	19.8	19.0	20.1	20.4
4H	2H	17.3	18.6	17.6	18.8	19.1	17.2	18.5	17.5	18.8	19.0
	3H	18.8	19.9	19.1	20.2	20.5	18.7	19.9	19.1	20.2	20.5
	4H	19.4	20.4	19.7	20.7	21.0	19.3	20.3	19.6	20.6	21.0
	6H	19.7	20.6	20.1	20.9	21.3	19.6	20.5	20.0	20.9	21.2
	8H	19.7	20.6	20.1	20.9	21.3	19.6	20.5	20.0	20.8	21.2
	12H	19.7	20.5	20.1	20.9	21.3	19.6	20.4	20.0	20.8	21.2
8H	4H	19.5	20.4	19.9	20.8	21.1	19.5	20.3	19.9	20.7	21.1
	6H	19.9	20.7	20.4	21.1	21.5	19.9	20.6	20.3	21.0	21.4
	8H	20.0	20.6	20.5	21.1	21.5	19.9	20.6	20.4	21.0	21.4
	12H	20.0	20.6	20.5	21.0	21.5	19.9	20.5	20.4	20.9	21.4
12H	4H	19.5	20.3	19.9	20.7	21.1	19.4	20.2	19.9	20.6	21.0
	6H	20.0	20.6	20.4	21.0	21.5	19.9	20.5	20.3	20.9	21.4
	8H	20.0	20.6	20.5	21.0	21.5	19.9	20.5	20.4	20.9	21.4
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.3					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.4					
2.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.3					

CIE Pub.117, 3244 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 4.1)

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:239.94V I:0.1376A P:31.320W PF:0.9488 Freq:50.08Hz Lamp Flux:3244.15x1 lm		
NAME: DEEP C 385 LED_WHT_CLE 315mm ADV4_900mA_4K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

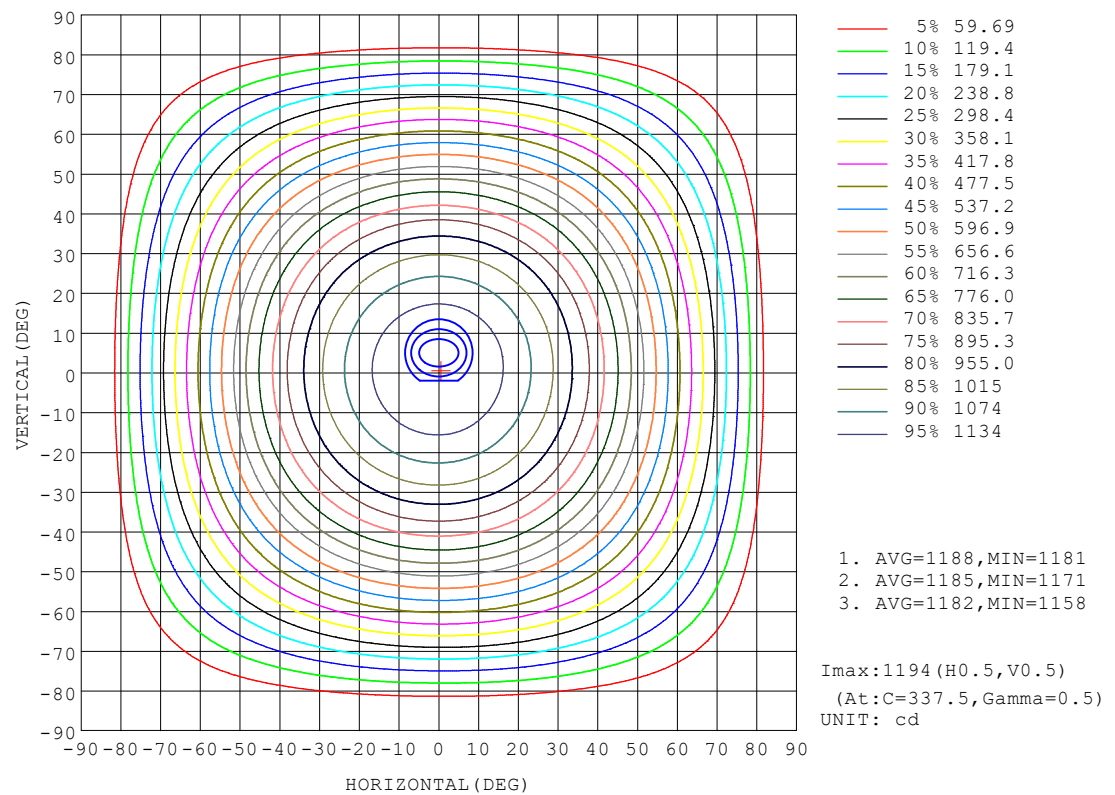
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	59	47	40	58	47	40	57	46	40	34
0.80	69	57	50	68	57	50	66	56	49	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:239.94V I:0.1376A P:31.320W PF:0.9488 Freq:50.08Hz Lamp Flux:3244.15x1 lm		
NAME: DEEP C 385 LED_WHT_CLE 315mm ADV4_900mA_4K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



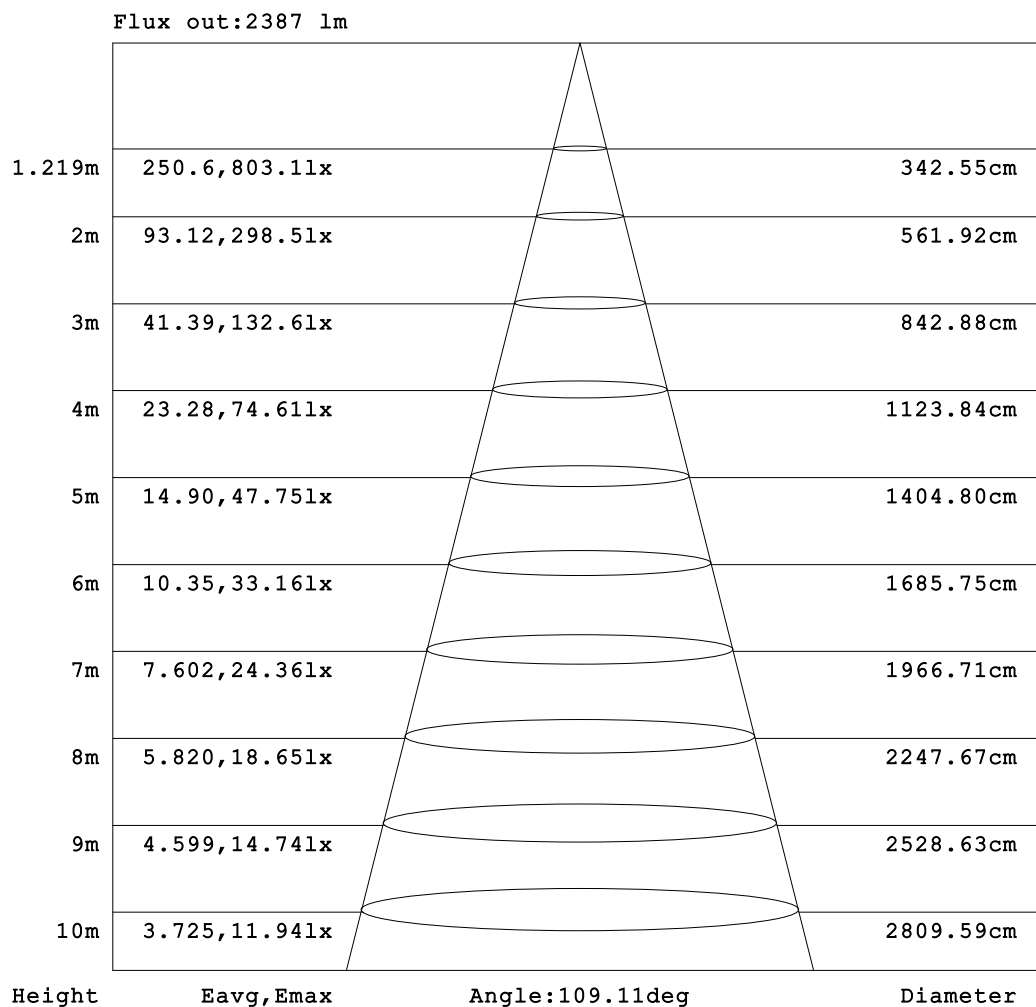
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:03 September 2020

$\gamma$  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:239.94V I:0.1376A P:31.320W PF:0.9488 Freq:50.08Hz Lamp Flux:3244.15x1 lm		
NAME: DEEP C 385 LED_WHT_CLE 315mm ADV4_900mA_4K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



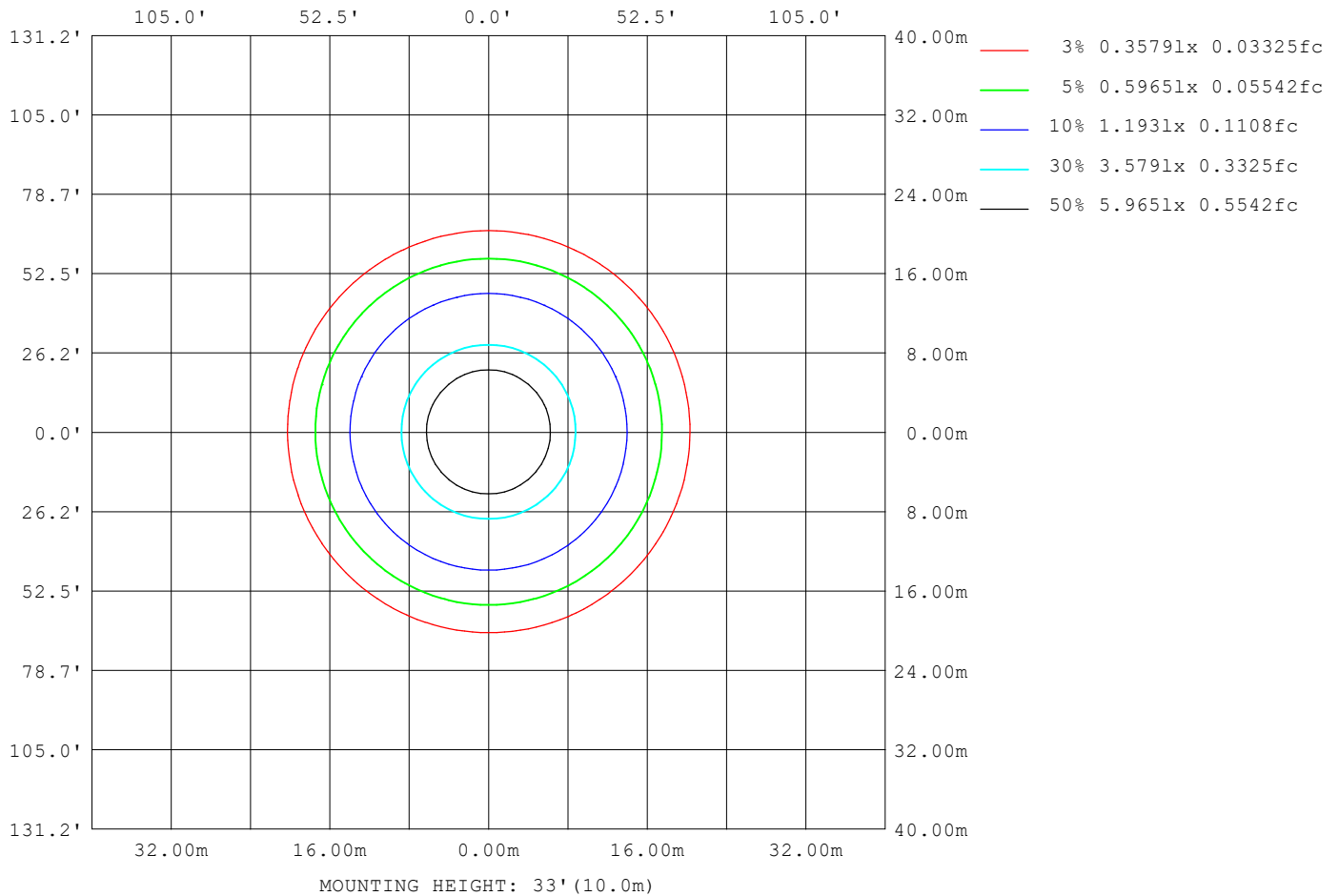
**Note:**The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:239.94V I:0.1376A P:31.320W PF:0.9488 Freq:50.08Hz Lamp Flux:3244.15x1 lm		
NAME: DEEP C 385 LED_WHT_CLE 315mm ADV4_900mA_4K	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:239.94V I:0.1376A P:31.320W PF:0.9488 Freq:50.08Hz Lamp Flux:3244.15x1 lm		
NAME: DEEP C 385 LED_WHT_CLE 315mm ADV4_900mA_4K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

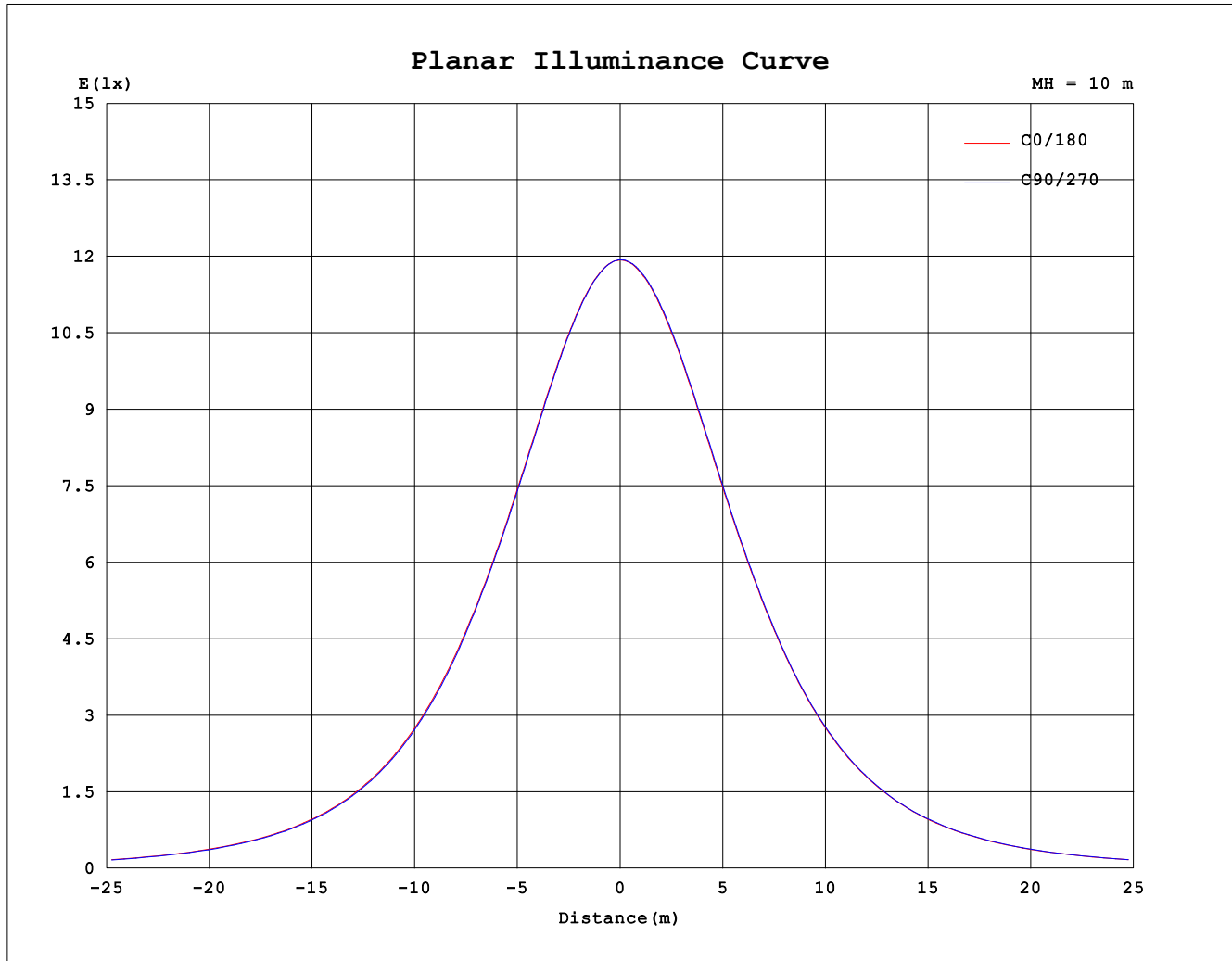
AvgL	cd/m2
L_0~180 (65) av	8768
L_0~180 (75) av	6786
L_0~180 (85) av	2090
L_90~270 (65) av	8729
L_90~270 (75) av	6730
L_90~270 (85) av	2112
L_45 (65) av	8748
L_45 (75) av	6756
L_45 (85) av	2105

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:

```