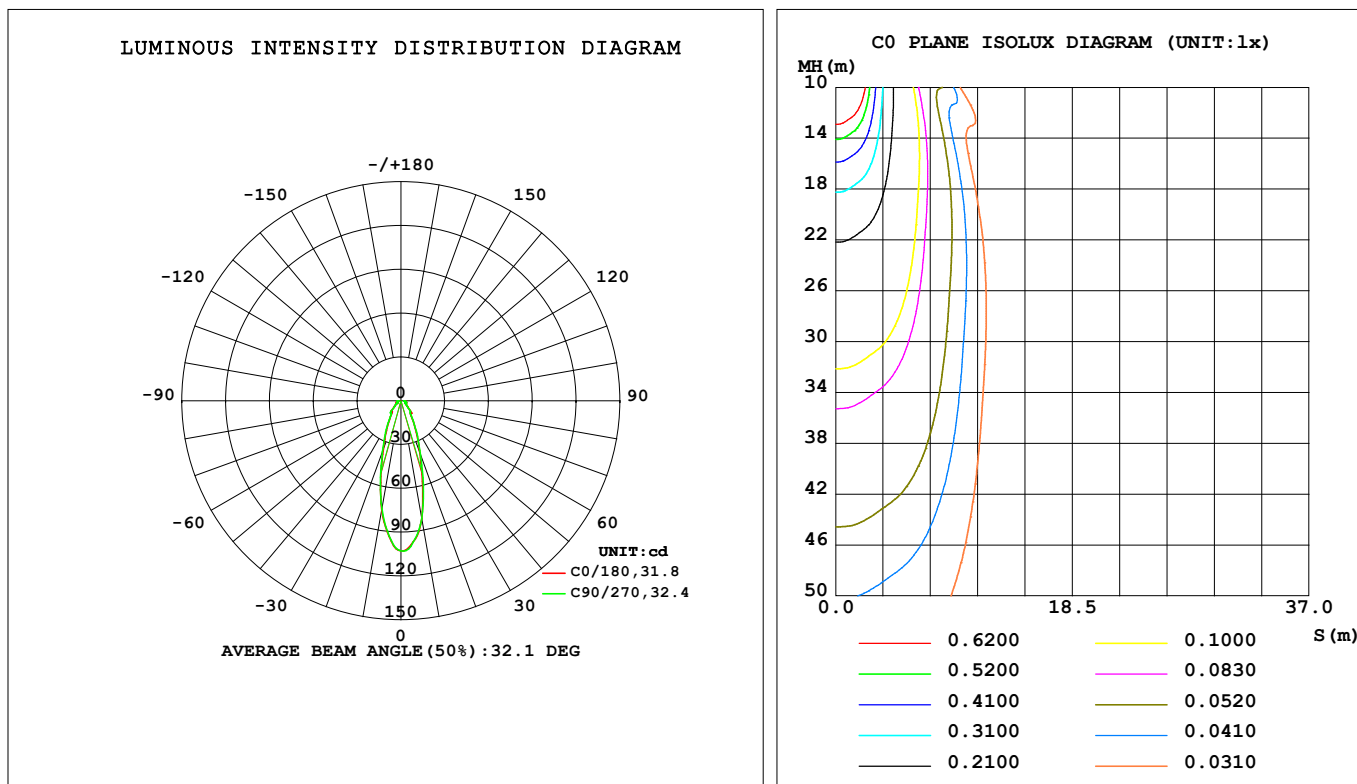


**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:240.02V I:0.0223A P:5.2430W PF:0.9776 Freq:0Hz Lamp Flux:63.325x1 lm		
NAME: CHROME DOME WALL KIT_RND_CHROME_2700K_5W	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 12.08 lm/W
MODEL: CHROME DOME_CHROME_2700K_5W		I <sub>max</sub> (cd)	103.1	S/MH (C0/180)		0.51
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)		0.52
RATED VOLTAGE (V)	230.0	TOTAL FLUX (lm)	63.325	η UP,DN (C0-180)		0.0,50.9
NOMINAL FLUX (lm)	63.325	CIE CLASS	DIRECT	η UP,DN (C180-360)		0.0,49.1
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM		0.50
TEST VOLTAGE (V)	230	η down (%)	100.0	CIBSE SHR MAX		0.60



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: JEFF  
Test Date: 08 November 2019

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity: 65.0%  
Test Distance: 7.220m [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	81.97	83.84	82.07	79.26	76.13	75.06	75.45	78.03	0- 10	8.587	8.587	13.6,13.6
20	38.07	38.70	39.47	37.92	35.77	35.17	37.16	37.89	10- 20	15.46	24.05	38,38
30	17.69	18.11	18.26	17.55	16.85	16.69	17.70	17.97	20- 30	11.94	35.99	56.8,56.8
40	11.49	10.63	10.11	9.881	9.631	9.907	11.14	11.53	30- 40	7.880	43.87	69.3,69.3
50	5.590	5.629	5.455	5.638	5.599	5.521	5.444	5.466	40- 50	6.237	50.11	79.1,79.1
60	3.571	3.687	3.534	3.505	3.536	3.486	3.446	3.484	50- 60	3.880	53.99	85.3,85.3
70	3.391	3.453	3.360	3.282	3.314	3.273	3.219	3.254	60- 70	3.386	57.37	90.6,90.6
80	2.866	2.952	2.822	2.772	2.821	2.794	2.678	2.735	70- 80	3.294	60.67	95.8,95.8
90	2.908	2.494	2.109	2.262	2.438	2.516	2.632	3.000	80- 90	2.657	63.32	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): 47.505 lm

%lum = 75.0%

%lamp = 75.0%

Conical surface Flux(120deg): 53.988 lm

%lum = 85.3%

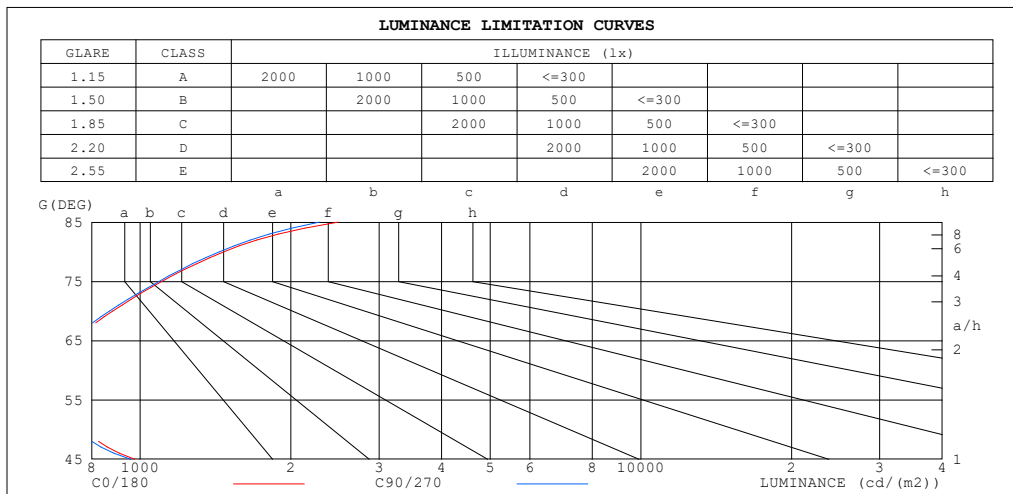
%lamp = 85.3%

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:08 November 2019

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.220m [K=1.0000]  
Remarks:

**LUMINANCE LIMITATION CURVES**

Test:U:240.02V I:0.0223A P:5.2430W PF:0.9776 Freq:0Hz Lamp Flux:63.325x1 lm		
NAME: CHROME DOME_WALL KIT_RND_CHROME_2700K_5W	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	2484	2277
80	1467	1437
75	1104	1092
70	882	869
65	734	722
60	635	625
55	660	647
50	773	750
45	975	958

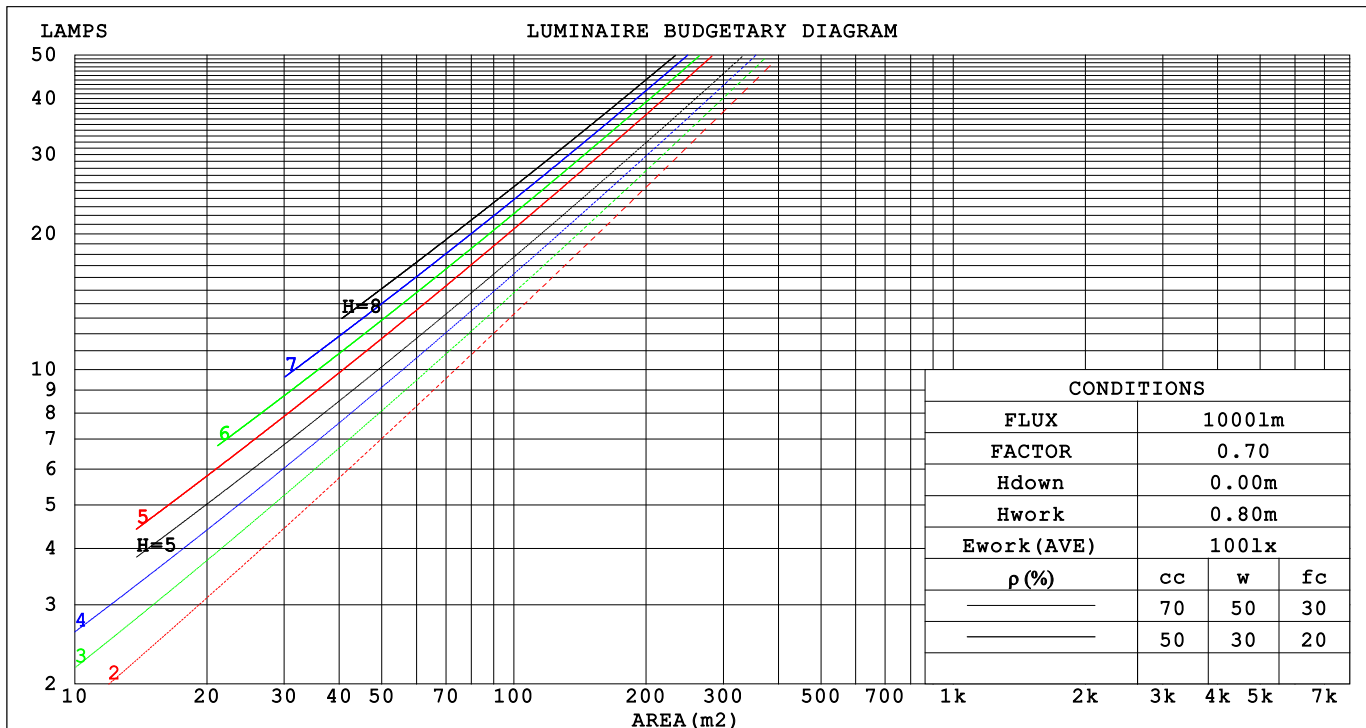
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:JEFF  
 Test Date:08 November 2019

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:7.220m [K=1.0000]  
 Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:240.02V I:0.0223A P:5.2430W PF:0.9776 Freq:0Hz Lamp Flux:63.325x1 lm		
NAME: CHROME DOME_WALL_KIT_RND_CHROME_2700K_5W	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
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: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:08 November 2019

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.220m [K=1.0000]  
Remarks:

## WEC AND CCEC

Test:U:240.02V I:0.0223A P:5.2430W PF:0.9776 Freq:0Hz Lamp Flux:63.325x1 lm		
NAME: CHROME_DOME_WALL_KIT_RND_CHROME_2700K_5W	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
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	.269	.153	.048	.262	.150	.048	.249	.143	.046	.237	.137	.044	.226	.131	.042	
2.0	.237	.130	.040	.232	.128	.039	.220	.123	.038	.210	.118	.037	.200	.113	.036	
3.0	.214	.114	.034	.209	.112	.034	.200	.108	.033	.191	.104	.032	.182	.101	.031	
4.0	.196	.102	.030	.192	.100	.030	.183	.097	.029	.175	.094	.028	.168	.091	.028	
5.0	.181	.092	.027	.177	.091	.026	.170	.088	.026	.163	.086	.026	.156	.084	.025	
6.0	.168	.084	.024	.165	.083	.024	.158	.081	.024	.152	.079	.023	.146	.077	.023	
7.0	.157	.078	.022	.154	.077	.022	.148	.075	.022	.143	.073	.021	.138	.072	.021	
8.0	.147	.072	.020	.145	.071	.020	.140	.070	.020	.135	.068	.020	.130	.067	.019	
9.0	.139	.067	.019	.137	.067	.019	.132	.065	.018	.128	.064	.018	.124	.063	.018	
10.0	.131	.063	.017	.129	.062	.017	.125	.061	.017	.121	.060	.017	.118	.059	.017	

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	.177	.156	.138	.152	.134	.118	.104	.092	.082	.060	.053	.048	.019	.017	.015	
2.0	.165	.132	.105	.141	.114	.090	.097	.079	.063	.056	.046	.037	.018	.015	.012	
3.0	.154	.114	.082	.132	.098	.071	.091	.068	.050	.052	.040	.029	.017	.013	.010	
4.0	.144	.100	.066	.123	.086	.058	.085	.060	.041	.049	.035	.024	.016	.011	.008	
5.0	.135	.089	.055	.116	.077	.047	.080	.054	.033	.046	.031	.020	.015	.010	.007	
6.0	.127	.080	.046	.109	.069	.040	.075	.048	.028	.044	.028	.017	.014	.009	.006	
7.0	.120	.072	.039	.103	.063	.034	.071	.044	.024	.041	.026	.014	.013	.008	.005	
8.0	.113	.066	.034	.097	.057	.029	.067	.040	.021	.039	.024	.012	.013	.008	.004	
9.0	.107	.061	.029	.092	.053	.026	.064	.037	.018	.037	.022	.011	.012	.007	.004	
10.0	.102	.056	.026	.088	.049	.023	.061	.034	.016	.036	.020	.010	.012	.007	.003	

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:08 November 2019

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.220m [K=1.0000]  
Remarks:

**UGR(Unified Glare Rating) Table**

Test:U:240.02V I:0.0223A P:5.2430W PF:0.9776 Freq:0Hz Lamp Flux:63.325x1 lm											
NAME: CHROME_DOME_WALL_KIT_RND_CHROME_2700K_5W						TYPE:LED		WEIGHT:			
SPEC.:						DIM.:		SERIAL No.:1			
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	18.9	20.1	19.1	20.2	20.4	18.8	19.9	19.0	20.1	20.3	
	20.9	22.0	21.2	22.2	22.5	20.8	21.9	21.1	22.1	22.3	
	22.3	23.3	22.6	23.6	23.8	22.2	23.2	22.5	23.5	23.7	
	23.8	24.8	24.1	25.0	25.3	23.7	24.7	24.0	24.9	25.2	
	24.6	25.5	24.9	25.8	26.1	24.4	25.4	24.8	25.7	25.9	
	25.4	26.3	25.8	26.6	26.9	25.2	26.1	25.6	26.4	26.7	
4H 2H	19.5	20.6	19.8	20.8	21.0	19.4	20.4	19.7	20.7	20.9	
	22.0	22.9	22.3	23.2	23.5	21.9	22.8	22.2	23.1	23.4	
	23.6	24.4	23.9	24.7	25.0	23.5	24.3	23.8	24.6	24.9	
	25.3	26.0	25.6	26.4	26.7	25.2	25.9	25.5	26.3	26.6	
	26.1	26.9	26.5	27.2	27.6	26.0	26.7	26.4	27.1	27.5	
	27.1	27.8	27.5	28.1	28.5	26.9	27.6	27.3	27.9	28.3	
8H 4H	24.2	24.9	24.6	25.3	25.7	24.1	24.9	24.5	25.2	25.6	
	26.2	26.8	26.6	27.2	27.6	26.1	26.7	26.5	27.1	27.5	
	27.2	27.8	27.7	28.2	28.7	27.1	27.7	27.6	28.1	28.5	
	28.4	28.9	28.9	29.3	29.8	28.2	28.7	28.7	29.1	29.6	
12H 4H	24.4	25.0	24.8	25.4	25.8	24.3	25.0	24.7	25.3	25.7	
	26.5	27.0	26.9	27.4	27.9	26.4	26.9	26.8	27.3	27.8	
	27.6	28.1	28.1	28.5	29.0	27.5	28.0	28.0	28.4	28.9	
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2					
1.5H	+ 0.1 / - 0.2					+ 0.1 / - 0.2					
2.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2					

CIE Pub.117, 63.32 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = -9.6$ )

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:08 November 2019

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.220m [K=1.0000]  
Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:240.02V I:0.0223A P:5.2430W PF:0.9776 Freq:0Hz Lamp Flux:63.325x1 lm		
NAME: CHROME DOME_WALL_KIT_RND_CHROME_2700K_5W	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

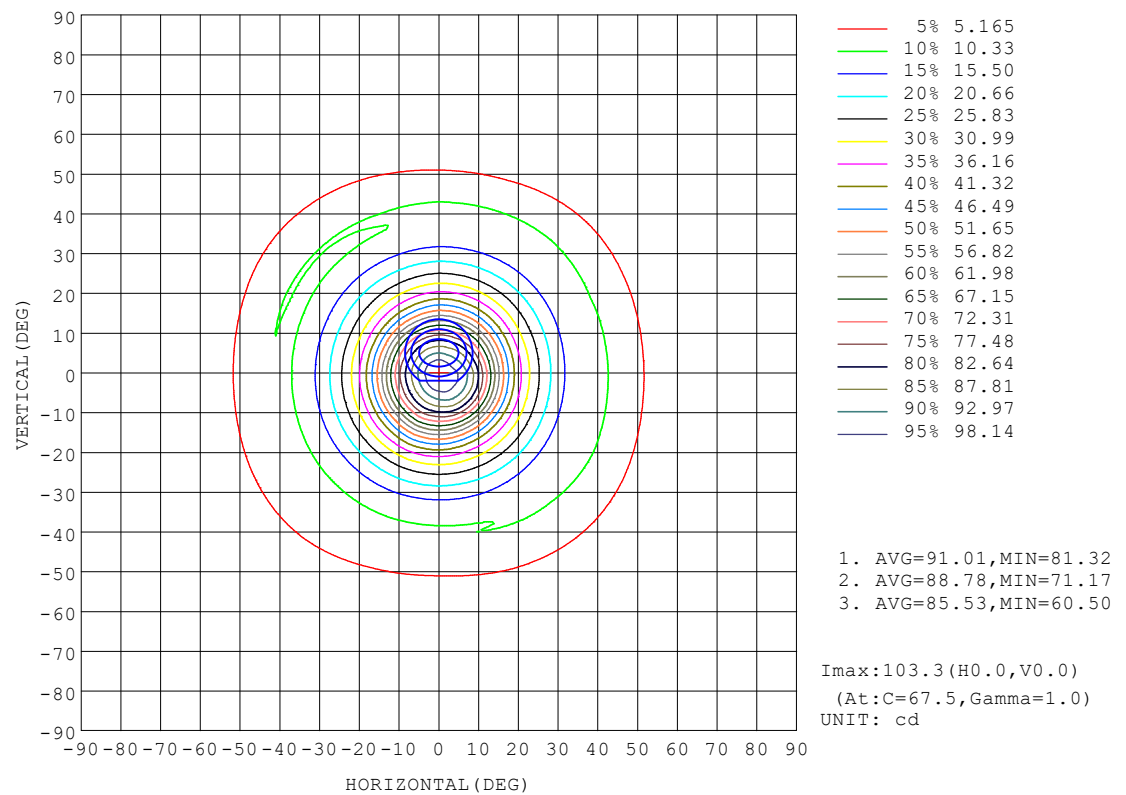
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	73	64	59	72	64	59	71	63	59	54
0.80	81	73	67	80	72	67	79	71	66	61
1.00	87	79	73	86	78	73	84	79	72	67
1.25	92	84	79	91	84	78	89	82	78	72
1.50	96	88	83	95	88	83	92	86	81	75
2.00	100	94	89	99	93	88	96	90	86	79
2.50	103	97	92	101	96	91	98	93	89	82
3.00	106	100	95	104	98	94	100	96	92	84
4.00	109	104	100	106	102	99	102	99	96	88
5.00	111	106	103	108	105	102	104	101	98	90
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:JEFF  
Test Date:08 November 2019

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.220m [K=1.0000]  
Remarks:

**ISOCANDELA DIAGRAM**

Test:U:240.02V I:0.0223A P:5.2430W PF:0.9776 Freq:0Hz Lamp Flux:63.325x1 lm		
NAME: CHROME DOME WALL KIT_RND_CHROME_2700K_5W	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



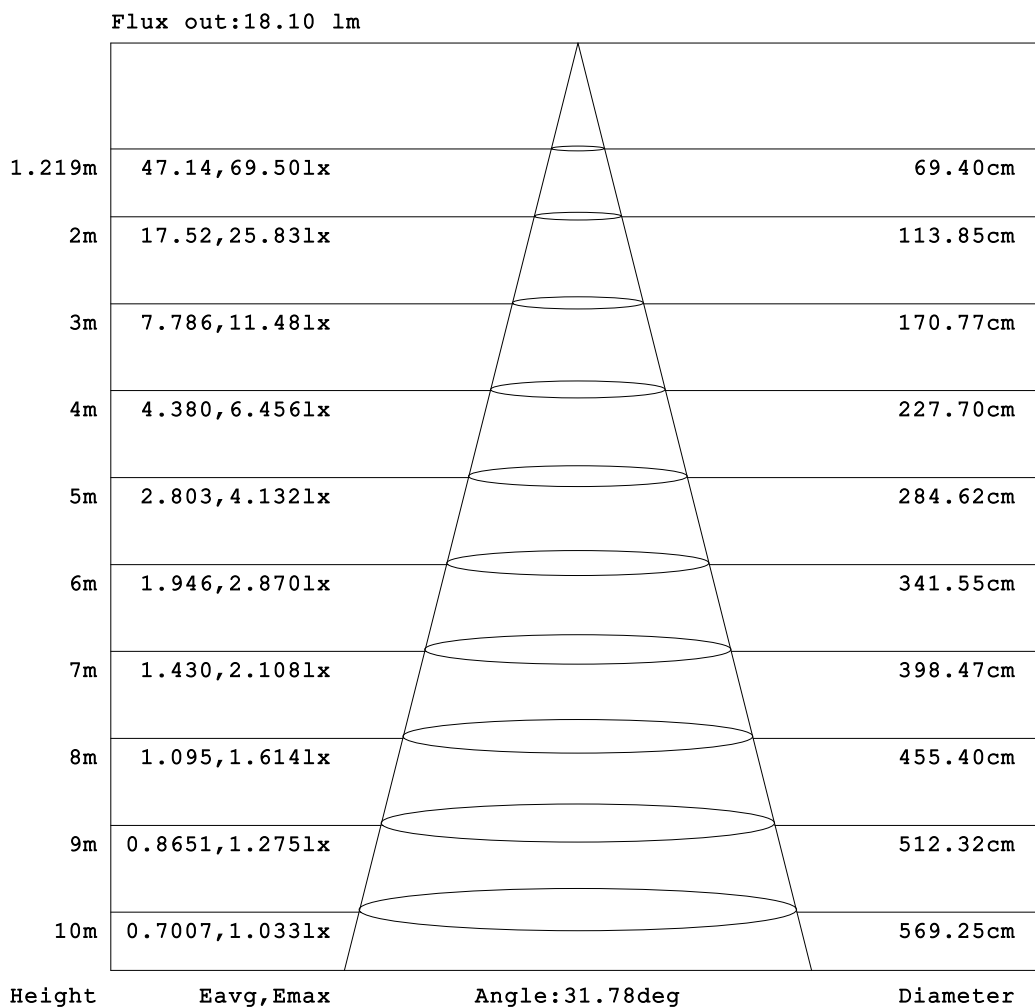
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:08 November 2019

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.220m [K=1.0000]  
Remarks:



**AAI Figure**

Test:U:240.02V I:0.0223A P:5.2430W PF:0.9776 Freq:0Hz Lamp Flux:63.325x1 lm		
NAME: CHROME DOME WALL KIT_RND_CHROME_2700K_5W	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



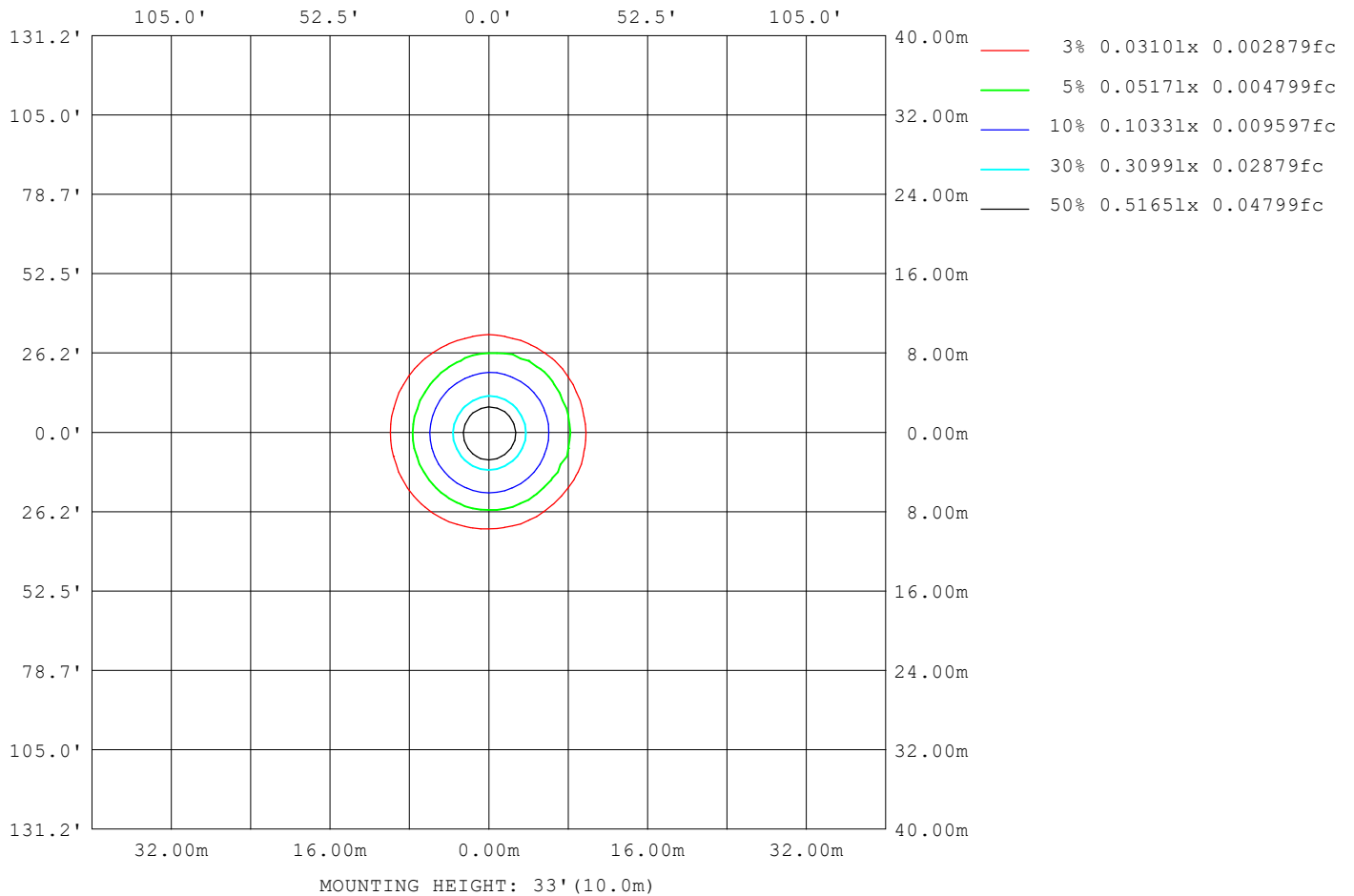
**Note:**The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:08 November 2019

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.220m [K=1.0000]  
Remarks:

**ISOLUX DIAGRAM**

Test:U:240.02V I:0.0223A P:5.2430W PF:0.9776 Freq:0Hz Lamp Flux:63.325x1 lm		
NAME: CHROME DOME WALL KIT_RND_CHROME_2700K_5W	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:JEFF  
 Test Date:08 November 2019

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:7.220m [K=1.0000]  
 Remarks:

**LED Avg.L Report**

Test:U:240.02V I:0.0223A P:5.2430W PF:0.9776 Freq:0Hz Lamp Flux:63.325x1 lm		
NAME: CHROME DOME WALL KIT_RND_CHROME_2700K_5W	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

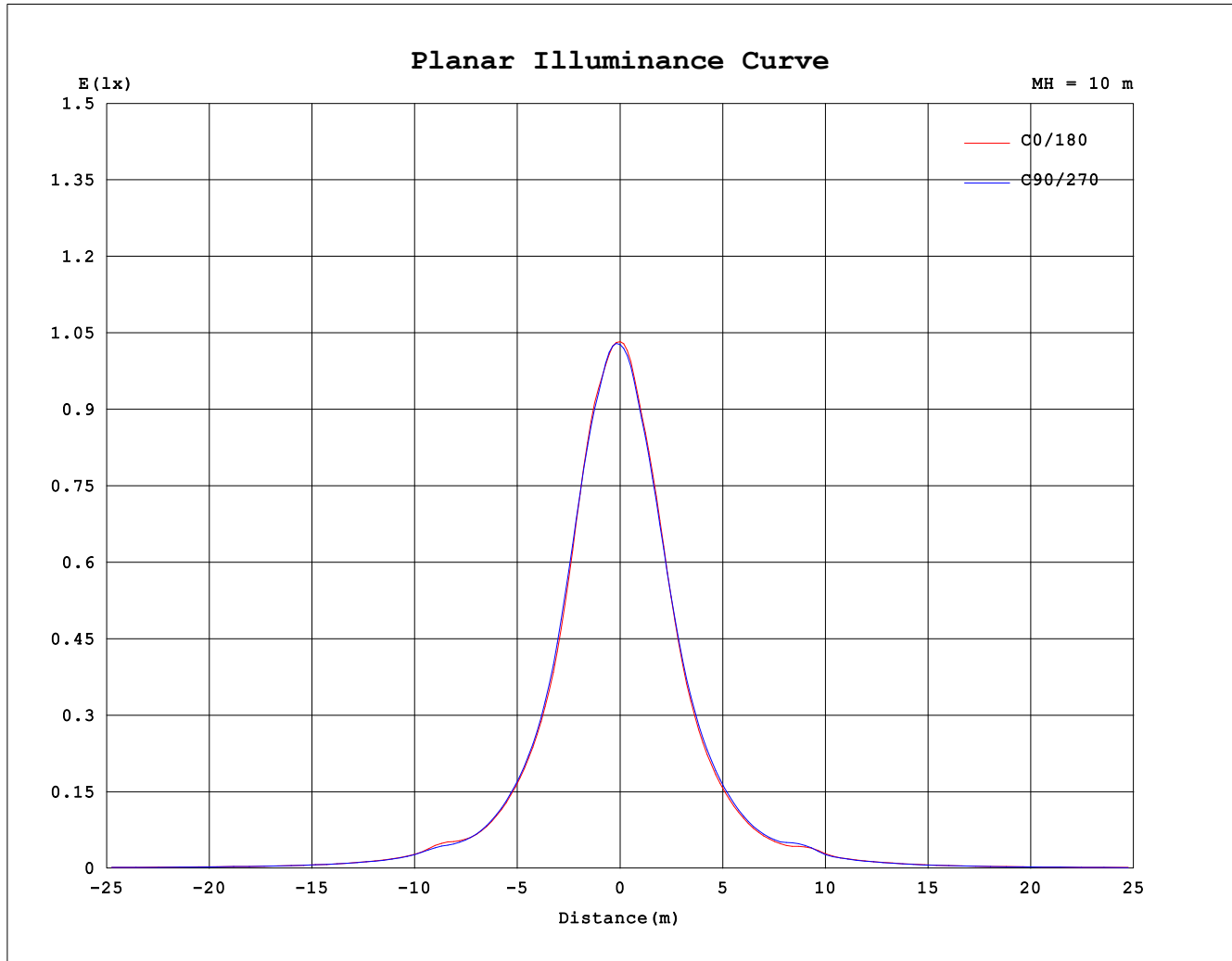
AvgL	cd/m2
L_0~180 (65) av	720
L_0~180 (75) av	1088
L_0~180 (85) av	2466
L_90~270 (65) av	709
L_90~270 (75) av	1062
L_90~270 (85) av	2291
L_45 (65) av	714
L_45 (75) av	1076
L_45 (85) av	2398

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:08 November 2019

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.220m [K=1.0000]  
Remarks:

### Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: JEFF  
Test Date: 08 November 2019

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity: 65.0%  
Test Distance: 7.220m [K=1.0000]  
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.220m [K=1.0000]
Remarks:

```