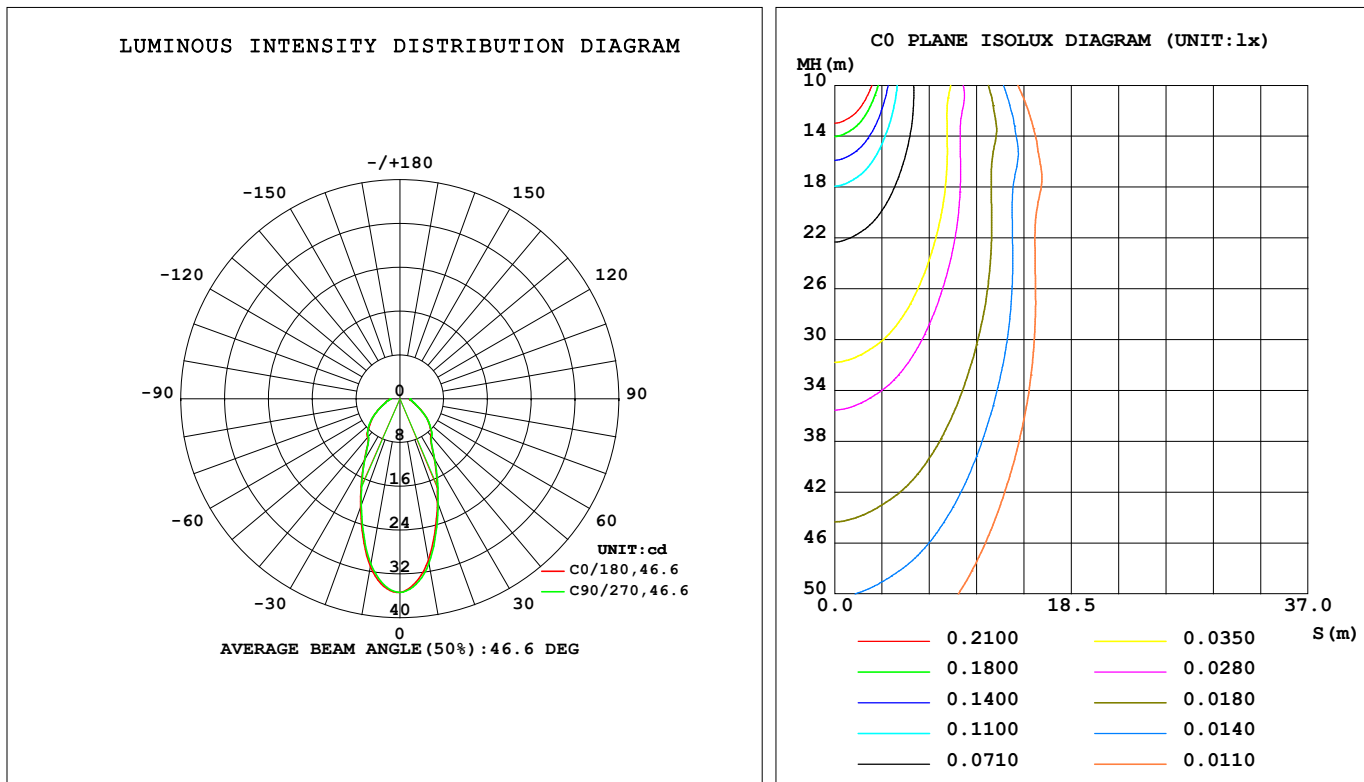


**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:240.11V I:0.0221A P:5.1847W PF:0.9776 Freq:50.08Hz Lamp Flux:44.6909x1 lm		
NAME: CHROME DOME WALL KIT_RND_BRONZE_2700K_5W	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL: CHROME DOME BRONZE_2700K_5W		Eff: 8.62 lm/W			
NOMINAL POWER(W)		I <sub>max</sub> (cd)	35.37	S/MH (C0/180)	0.72
RATED VOLTAGE (V)	230.0	LOR (%)	100.0	S/MH (C90/270)	0.71
NOMINAL FLUX (lm)	44.6909	TOTAL FLUX (lm)	44.691	η UP,DN (C0-180)	0.0,49.5
LAMPS INSIDE	1	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,50.5
TEST VOLTAGE (V)	230	η up (%)	0.0	CIBSE SHR NOM	0.75
		η down (%)	100.0	CIBSE SHR MAX	0.85



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: JEFF  
Test Date: 11 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	29.95	30.17	30.56	30.82	31.15	31.10	30.62	30.12	0- 10	3.137	3.137	7.02,7.02
20	20.12	20.42	20.46	20.48	21.05	21.30	20.71	20.05	10- 20	7.090	10.23	22.9,22.9
30	12.53	12.75	12.70	12.71	13.06	13.30	12.88	12.51	20- 30	7.501	17.73	39.7,39.7
40	8.825	8.939	9.021	9.032	9.145	9.252	9.018	8.933	30- 40	6.515	24.24	54.2,54.2
50	6.936	6.788	6.996	7.104	7.145	7.343	7.333	7.187	40- 50	6.303	30.55	68.4,68.4
60	4.706	4.518	4.686	4.918	5.046	5.038	5.053	4.922	50- 60	5.352	35.90	80.3,80.3
70	2.993	2.947	3.061	3.185	3.248	3.274	3.240	3.169	60- 70	3.879	39.78	89,89
80	2.145	2.089	2.198	2.263	2.342	2.268	2.279	2.228	70- 80	2.797	42.57	95.3,95.3
90	1.914	1.874	2.066	2.084	1.982	1.809	1.836	1.863	80- 90	2.117	44.69	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): 27.465 lm

%lum = 61.5%

%lamp = 61.5%

Conical surface Flux(120deg): 35.899 lm

%lum = 80.3%

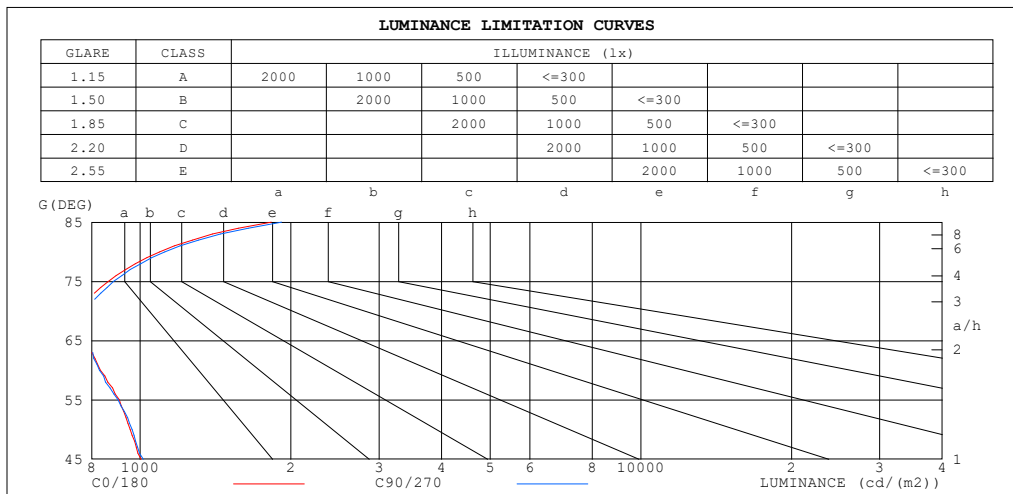
%lamp = 80.3%

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:11 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:240.11V I:0.0221A P:5.1847W PF:0.9776 Freq:50.08Hz Lamp Flux:44.6909x1 lm		
NAME: CHROME DOME_WALL_KIT_RND_BRONZE_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	1828	1916
80	1094	1120
75	864	884
70	775	792
65	780	779
60	833	830
55	909	903
50	956	964
45	1005	1014

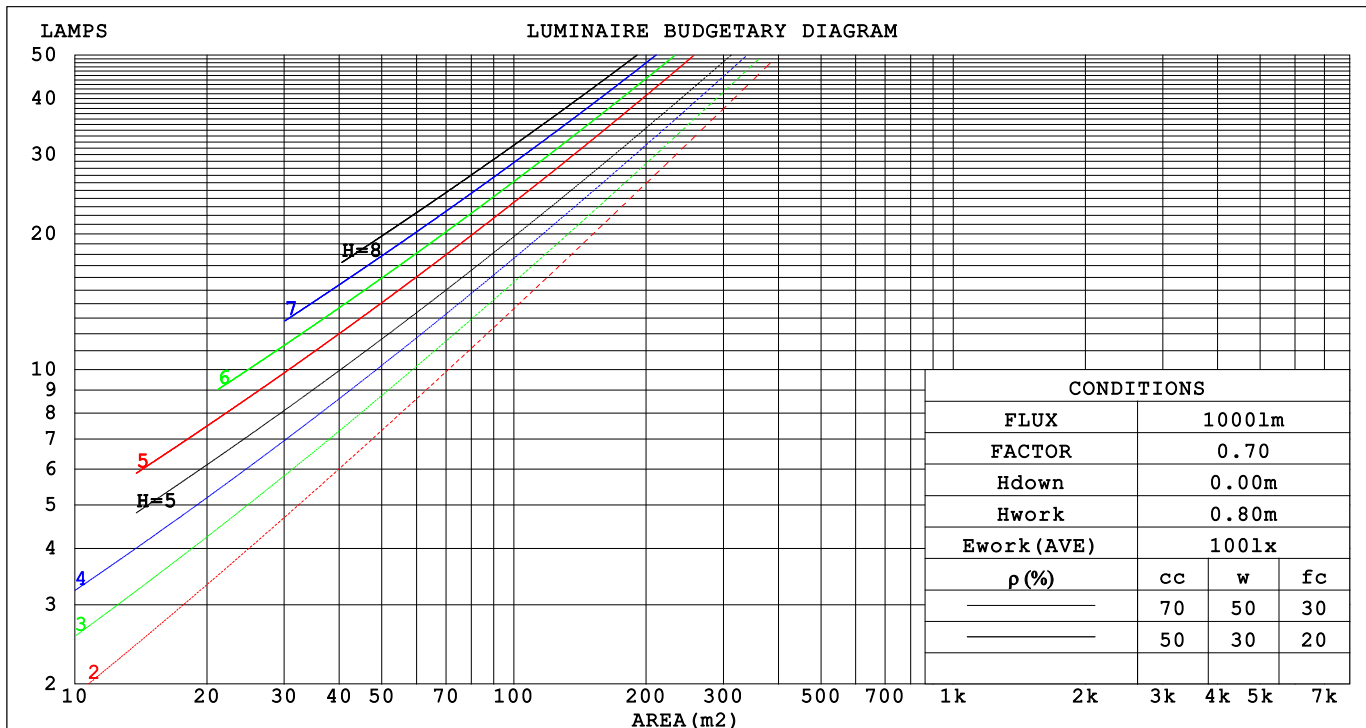
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:11 November 2019

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:240.11V I:0.0221A P:5.1847W PF:0.9776 Freq:50.08Hz Lamp Flux:44.6909x1 lm		
NAME: CHROME DOME_WALL_KIT_RND_BRONZE_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:11 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:240.11V I:0.0221A P:5.1847W PF:0.9776 Freq:50.08Hz Lamp Flux:44.6909x1 lm		
NAME: CHROME_DOME_WALL_KIT_RND_BRONZE_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	.311	.177	.056	.304	.173	.055	.291	.167	.053	.278	.161	.052	.267	.155	.050	
2.0	.278	.152	.047	.272	.150	.046	.260	.145	.045	.249	.140	.044	.240	.135	.043	
3.0	.252	.134	.040	.247	.132	.040	.236	.128	.039	.227	.124	.038	.218	.121	.037	
4.0	.230	.120	.035	.226	.118	.035	.217	.115	.034	.209	.112	.034	.201	.109	.033	
5.0	.212	.108	.031	.208	.107	.031	.200	.104	.031	.193	.102	.030	.186	.099	.030	
6.0	.196	.098	.028	.193	.097	.028	.186	.095	.028	.179	.093	.027	.173	.091	.027	
7.0	.183	.090	.026	.180	.089	.025	.173	.088	.025	.168	.086	.025	.162	.084	.025	
8.0	.171	.084	.023	.168	.083	.023	.162	.081	.023	.157	.080	.023	.152	.078	.023	
9.0	.160	.078	.022	.158	.077	.022	.153	.076	.021	.148	.074	.021	.144	.073	.021	
10.0	.151	.072	.020	.149	.072	.020	.144	.071	.020	.140	.070	.020	.136	.068	.020	

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	.180	.156	.134	.154	.134	.116	.106	.092	.080	.061	.053	.046	.019	.017	.015	
2.0	.170	.132	.100	.146	.114	.086	.100	.079	.060	.058	.046	.035	.019	.015	.011	
3.0	.161	.114	.077	.138	.098	.067	.095	.068	.047	.055	.040	.028	.018	.013	.009	
4.0	.152	.101	.061	.131	.087	.053	.090	.061	.037	.052	.035	.022	.017	.012	.007	
5.0	.144	.090	.050	.124	.078	.043	.085	.054	.031	.049	.032	.018	.016	.010	.006	
6.0	.136	.081	.042	.117	.070	.036	.081	.049	.026	.047	.029	.015	.015	.009	.005	
7.0	.129	.074	.035	.111	.064	.031	.077	.045	.022	.045	.027	.013	.014	.009	.004	
8.0	.123	.068	.031	.106	.059	.027	.073	.042	.019	.043	.024	.011	.014	.008	.004	
9.0	.117	.063	.027	.101	.055	.023	.070	.038	.017	.041	.023	.010	.013	.007	.003	
10.0	.111	.059	.024	.096	.051	.021	.067	.036	.015	.039	.021	.009	.013	.007	.003	

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:11 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:240.11V I:0.0221A P:5.1847W PF:0.9776 Freq:50.08Hz Lamp Flux:44.6909x1 lm											
NAME: CHROME DOME_WALL_KIT_RND_BRONZE_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	22.1	23.5	22.4	23.7	23.9	22.2	23.5	22.4	23.7	23.9	
	23.5	24.8	23.8	25.0	25.3	23.6	24.9	23.9	25.1	25.3	
	24.3	25.6	24.6	25.8	26.1	24.4	25.6	24.7	25.9	26.1	
	25.3	26.5	25.6	26.7	27.0	25.4	26.5	25.7	26.8	27.1	
	25.8	27.0	26.2	27.2	27.5	25.9	27.1	26.3	27.3	27.6	
	26.5	27.6	26.8	27.8	28.1	26.6	27.7	26.9	28.0	28.3	
4H 2H	22.6	23.9	22.9	24.1	24.4	22.7	23.9	23.0	24.1	24.4	
	24.3	25.4	24.6	25.7	26.0	24.3	25.4	24.7	25.7	26.0	
	25.3	26.3	25.7	26.6	26.9	25.4	26.4	25.7	26.7	27.0	
	26.5	27.4	26.9	27.7	28.1	26.6	27.4	26.9	27.8	28.2	
	27.1	28.0	27.5	28.3	28.7	27.2	28.1	27.6	28.4	28.8	
	27.9	28.7	28.3	29.1	29.5	28.1	28.8	28.5	29.2	29.6	
8H 4H	25.7	26.6	26.1	26.9	27.3	25.8	26.6	26.2	27.0	27.4	
	27.2	27.9	27.6	28.3	28.7	27.2	27.9	27.7	28.3	28.8	
	28.0	28.7	28.5	29.1	29.5	28.1	28.7	28.6	29.2	29.6	
	29.0	29.6	29.5	30.0	30.5	29.2	29.7	29.6	30.2	30.6	
12H 4H	25.8	26.6	26.2	27.0	27.4	25.9	26.6	26.3	27.0	27.4	
	27.4	28.0	27.8	28.4	28.9	27.4	28.1	27.9	28.5	28.9	
	28.3	28.9	28.8	29.3	29.8	28.4	29.0	28.9	29.4	29.9	
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2					

CIE Pub.117, 44.69 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = -10.8$ )

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:11 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:240.11V I:0.0221A P:5.1847W PF:0.9776 Freq:50.08Hz Lamp Flux:44.6909x1 lm		
NAME: CHROME DOME_WALL_KIT_RND_BRONZE_2700K_5W	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

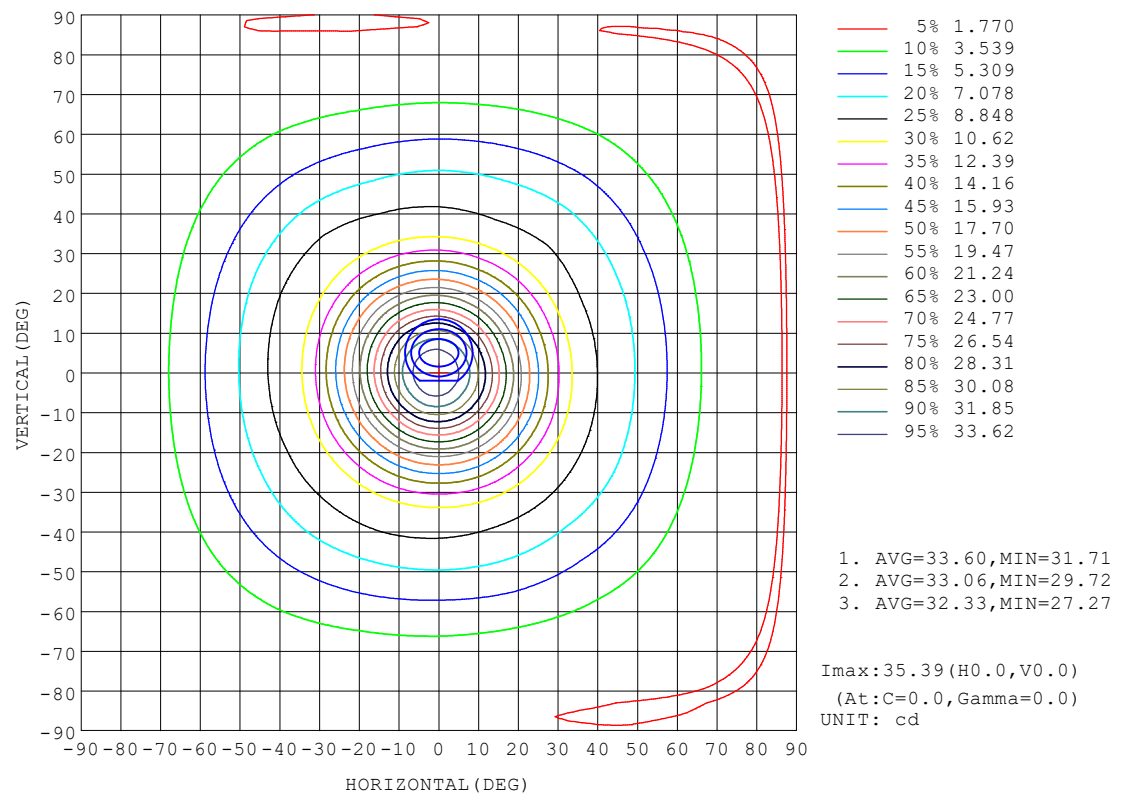
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	64	53	47	63	53	47	62	52	46	41
0.80	73	62	56	72	62	55	70	61	55	49
1.00	80	70	63	79	69	63	77	71	63	56
1.25	86	77	70	85	76	70	82	75	69	62
1.50	91	82	75	89	81	75	86	79	74	67
2.00	97	89	82	95	87	82	91	85	80	73
2.50	100	93	87	98	91	86	94	89	84	76
3.00	103	96	91	101	95	90	97	92	88	79
4.00	106	101	96	104	99	95	100	96	92	83
5.00	109	104	100	106	102	98	102	98	95	86
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:11 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:240.11V I:0.0221A P:5.1847W PF:0.9776 Freq:50.08Hz Lamp Flux:44.6909x1 lm		
NAME: CHROME DOME WALL KIT_RND_BRONZE_2700K_5W	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



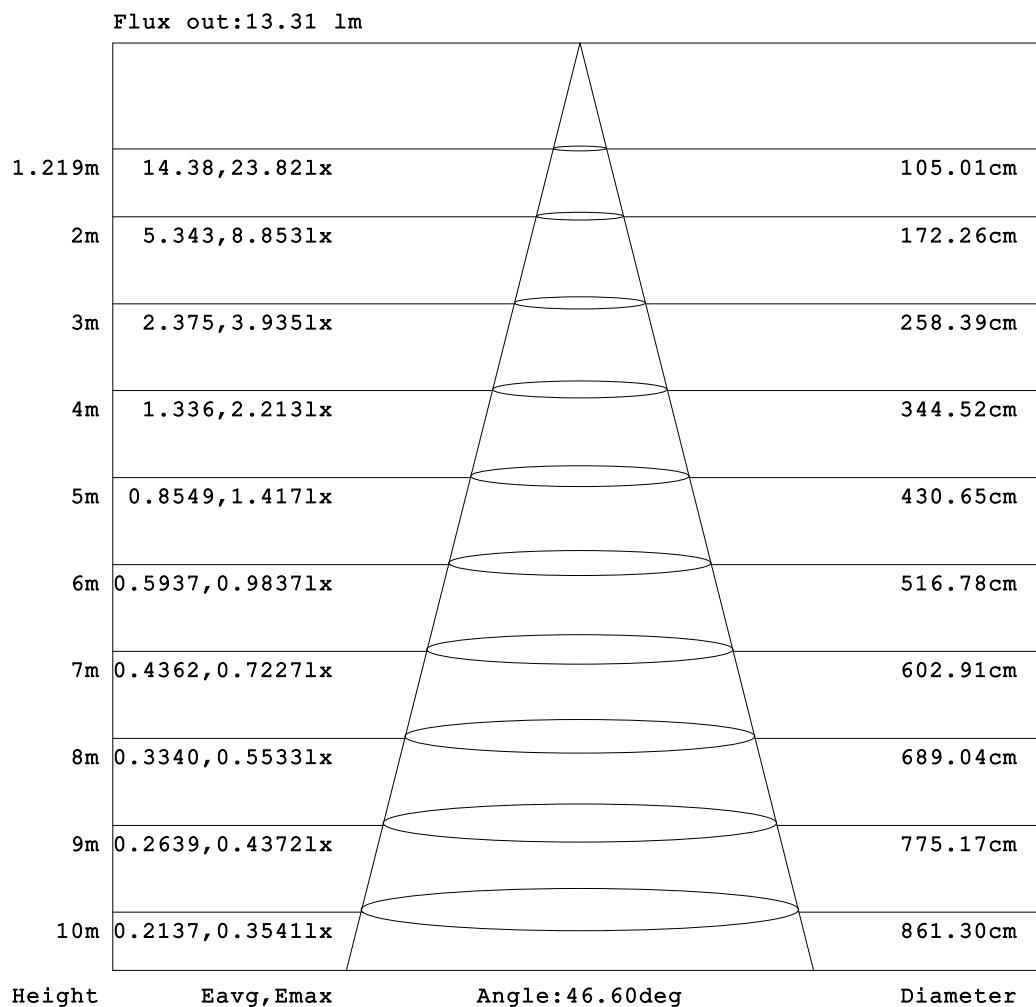
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:11 November 2019

$\gamma$  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:



**AAI Figure**

Test:U:240.11V I:0.0221A P:5.1847W PF:0.9776 Freq:50.08Hz Lamp Flux:44.6909x1 lm		
NAME: CHROME DOME WALL KIT_RND_BRONZE_2700K_5W	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



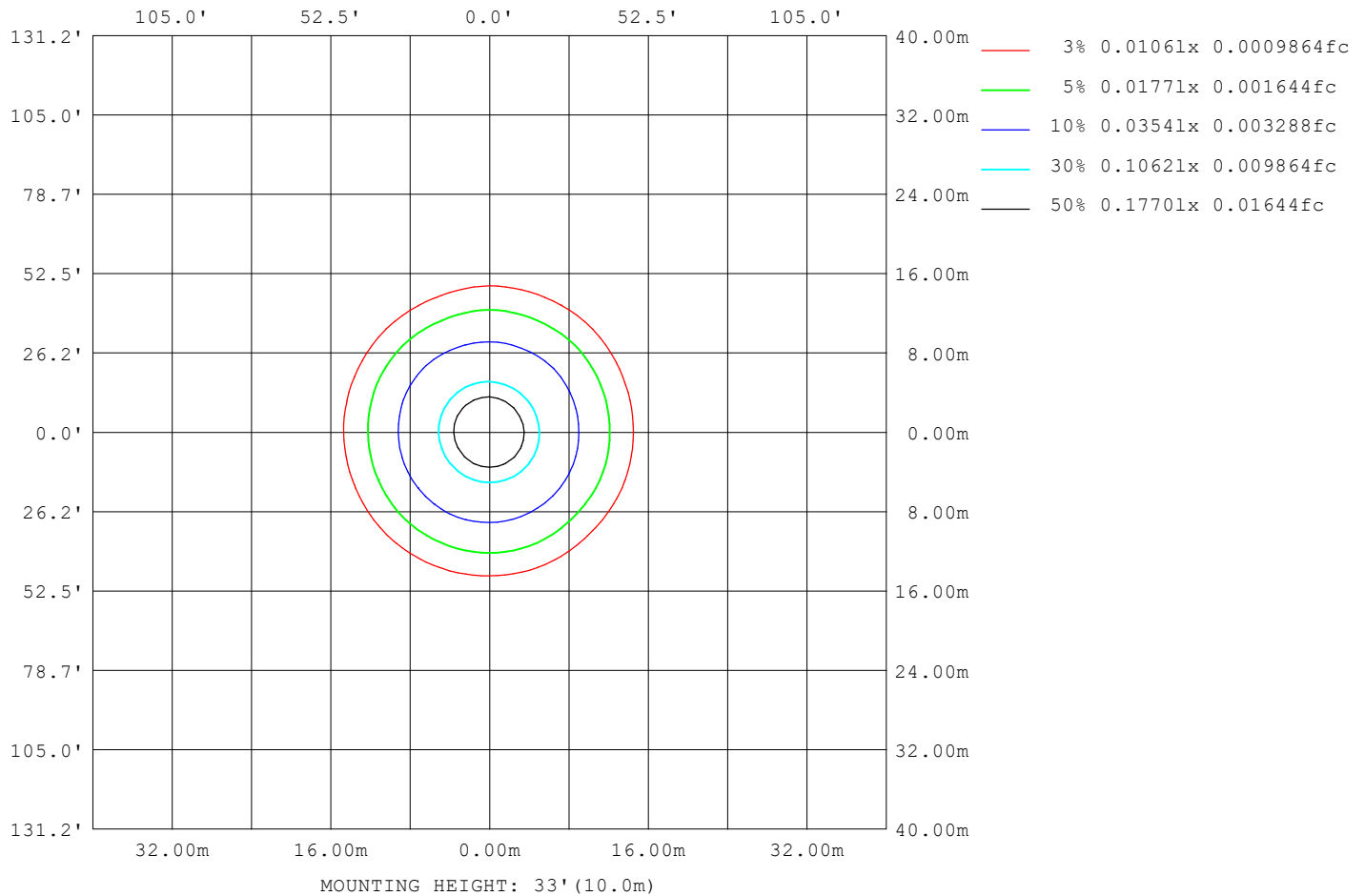
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:11 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:240.11V I:0.0221A P:5.1847W PF:0.9776 Freq:50.08Hz Lamp Flux:44.6909x1 lm		
NAME: CHROME DOME WALL KIT_RND_BRONZE_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:11 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:240.11V I:0.0221A P:5.1847W PF:0.9776 Freq:50.08Hz Lamp Flux:44.6909x1 lm		
NAME: CHROME DOME WALL KIT_RND_BRONZE_2700K_5W	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

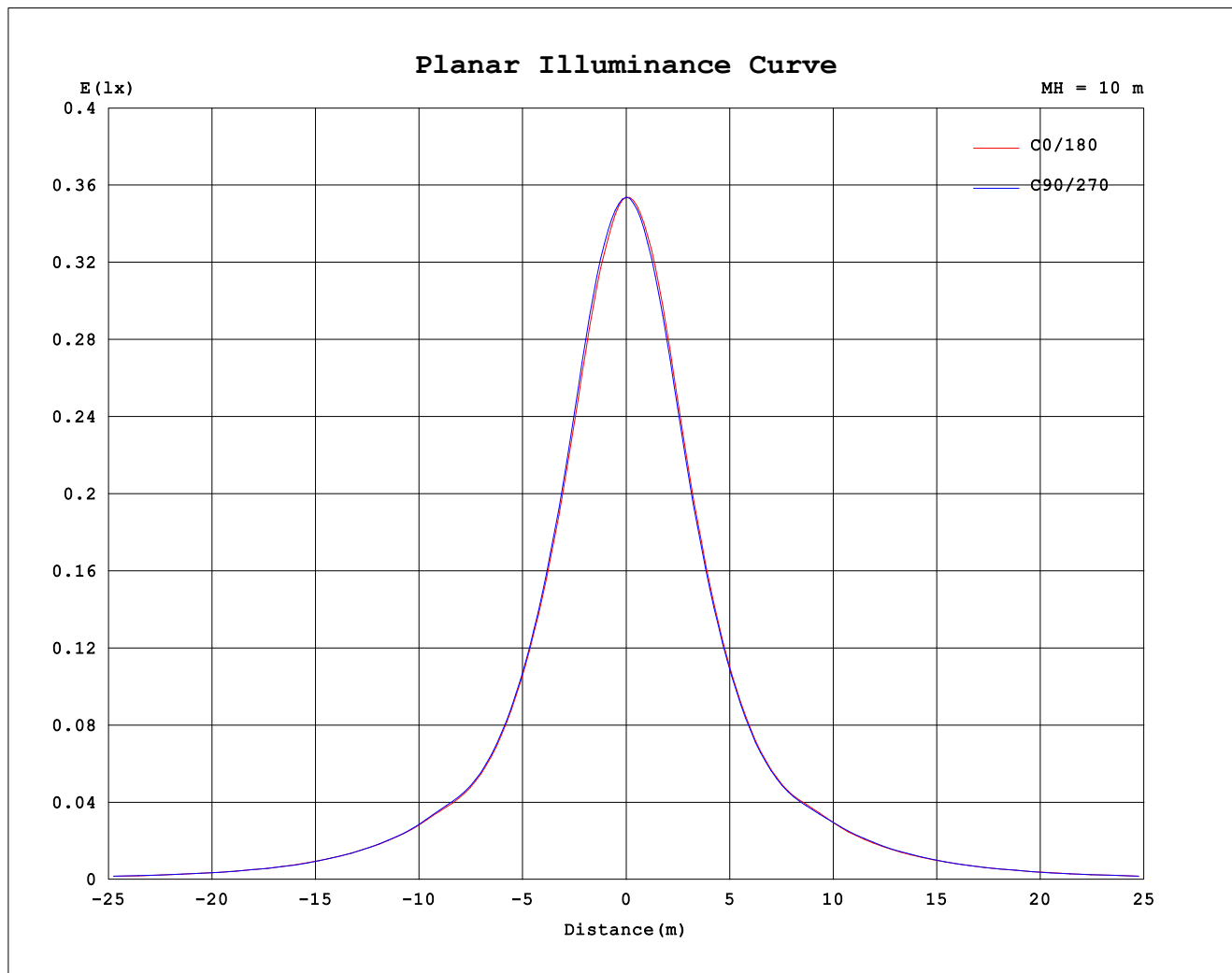
AvgL	cd/m2
L_0~180 (65) av	817
L_0~180 (75) av	902
L_0~180 (85) av	1912
L_90~270 (65) av	813
L_90~270 (75) av	905
L_90~270 (85) av	1910
L_45 (65) av	811
L_45 (75) av	902
L_45 (85) av	1890

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:11 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: 11 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:

```