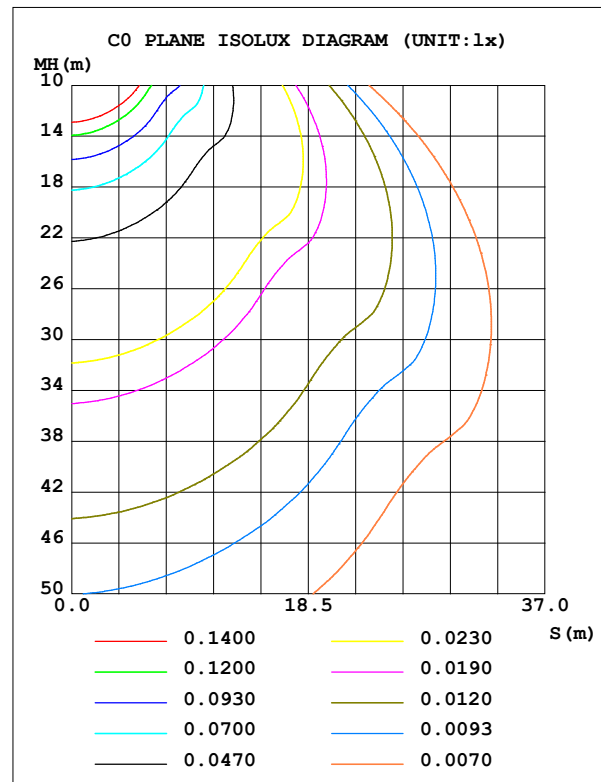
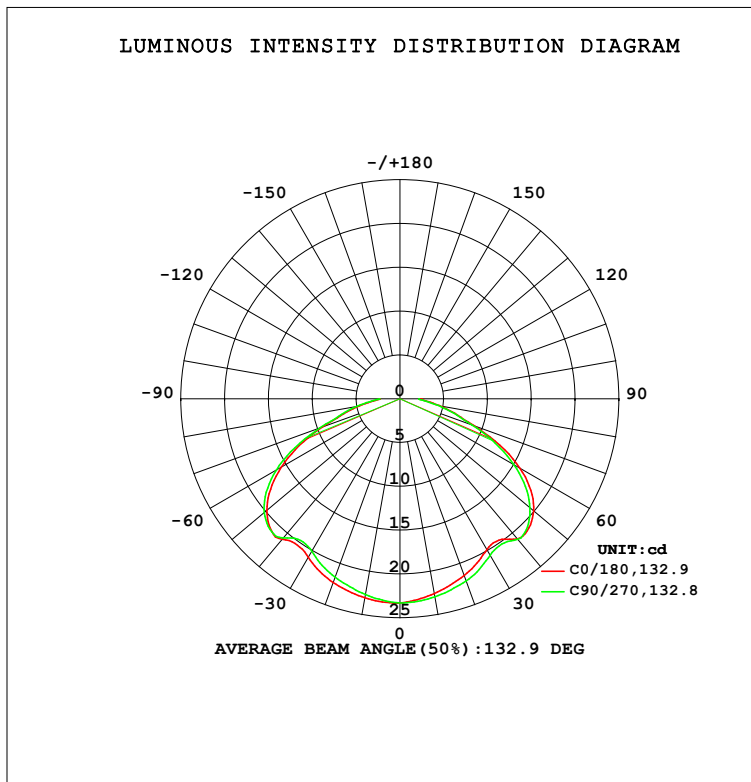


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:239.94V I:0.0219A P:5.1290W PF:0.9765 Freq:50.09Hz Lamp Flux:86.1919x1 lm		
NAME: CHROME DOME WALL KIT_RND_WHT_2700K_5W	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 16.80 lm/W
MODEL	CHROME DOME_WHT_2700K_5W	I _{max} (cd)	23.34	S/MH (C0/180)	1.35	
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.30	
RATED VOLTAGE (V)	230.0	TOTAL FLUX (lm)	86.192	η UP,DN (C0-180)	0.0,49.5	
NOMINAL FLUX (lm)	86.1919	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,50.5	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.50	
TEST VOLTAGE (V)	230	η down (%)	100.0	CIBSE SHR MAX	1.55	



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:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	22.58	22.73	22.94	23.08	23.08	22.90	22.69	22.54	0- 10	2.198	2.198	2.55,2.55
20	21.46	21.78	22.13	22.32	22.31	22.03	21.66	21.41	10- 20	6.327	8.526	9.89,9.89
30	19.87	20.23	20.62	20.92	20.92	20.59	20.13	19.78	20- 30	9.789	18.31	21.2,21.2
40	20.89	20.98	20.94	21.03	20.92	20.82	20.74	20.74	30- 40	12.73	31.05	36,36
50	19.93	19.66	19.38	19.68	19.83	20.08	20.21	20.12	40- 50	16.03	47.08	54.6,54.6
60	15.79	15.25	14.99	15.36	15.65	16.07	16.29	16.13	50- 60	16.11	63.19	73.3,73.3
70	8.962	8.757	8.777	9.090	9.419	9.738	9.686	9.491	60- 70	12.45	75.65	87.8,87.8
80	4.566	4.458	4.375	4.556	4.706	4.927	4.959	4.801	70- 80	7.069	82.71	96,96
90	2.582	2.386	2.191	2.242	2.228	2.277	2.297	2.460	80- 90	3.478	86.19	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): 38.827 lm

%lum = 45.0%

%lamp = 45.0%

Conical surface Flux(120deg): 63.191 lm

%lum = 73.3%

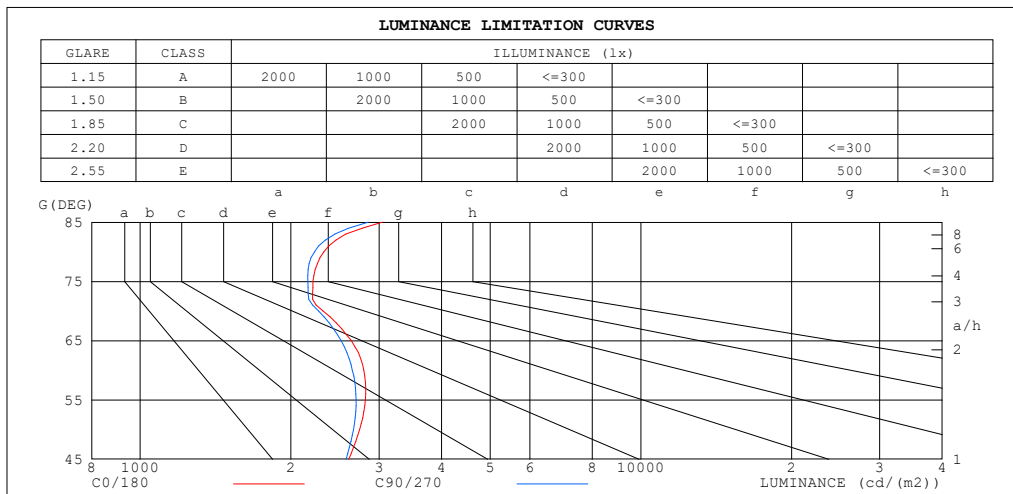
%lamp = 73.3%

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:

LUMINANCE LIMITATION CURVES

Test:U:239.94V I:0.0219A P:5.1290W PF:0.9765 Freq:50.09Hz Lamp Flux:86.1919x1 lm		
NAME: CHROME DOME_WALL_KIT_RND_WHT_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	3044	2853
80	2328	2230
75	2213	2161
70	2320	2272
65	2639	2520
60	2796	2654
55	2817	2700
50	2745	2668
45	2609	2579

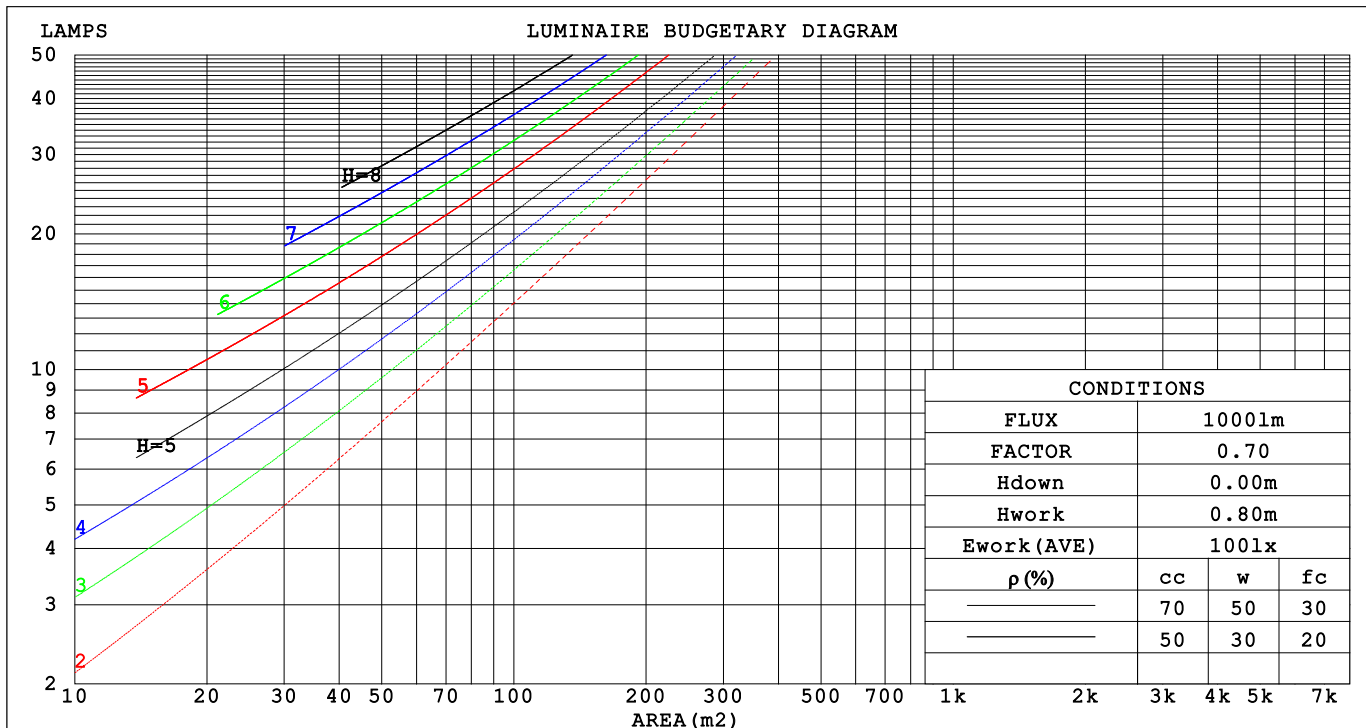
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:08 November 2019

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:239.94V I:0.0219A P:5.1290W PF:0.9765 Freq:50.09Hz Lamp Flux:86.1919x1 lm		
NAME: CHROME DOME_WALL_KIT_RND_WHT_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:239.94V I:0.0219A P:5.1290W PF:0.9765 Freq:50.09Hz Lamp Flux:86.1919x1 lm		
NAME: CHROME DOME_WALL_KIT_RND_WHT_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	.350	.199	.063	.342	.195	.062	.329	.189	.060	.317	.183	.059	.305	.177	.057	
2.0	.320	.176	.054	.314	.173	.053	.302	.168	.052	.291	.163	.051	.281	.159	.050	
3.0	.292	.156	.047	.287	.154	.046	.276	.150	.045	.266	.146	.045	.257	.142	.044	
4.0	.267	.139	.041	.262	.137	.041	.253	.134	.040	.244	.131	.040	.236	.128	.039	
5.0	.246	.125	.036	.241	.124	.036	.233	.121	.036	.225	.119	.035	.218	.116	.035	
6.0	.226	.113	.032	.222	.112	.032	.215	.110	.032	.208	.108	.032	.201	.106	.031	
7.0	.210	.104	.029	.206	.103	.029	.199	.101	.029	.193	.099	.029	.187	.097	.029	
8.0	.195	.095	.027	.192	.094	.027	.186	.093	.027	.180	.091	.026	.175	.090	.026	
9.0	.182	.088	.025	.179	.087	.025	.174	.086	.024	.169	.085	.024	.164	.083	.024	
10.0	.171	.082	.023	.168	.081	.023	.163	.080	.023	.159	.079	.022	.154	.078	.022	

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	.183	.156	.131	.157	.134	.113	.107	.092	.078	.062	.053	.045	.020	.017	.015	
2.0	.176	.132	.095	.151	.113	.082	.103	.078	.057	.060	.046	.033	.019	.015	.011	
3.0	.169	.114	.071	.145	.099	.062	.099	.069	.043	.057	.040	.025	.018	.013	.008	
4.0	.161	.101	.056	.138	.088	.048	.095	.061	.034	.055	.036	.020	.018	.012	.007	
5.0	.154	.091	.045	.132	.079	.039	.091	.055	.028	.053	.032	.016	.017	.011	.005	
6.0	.147	.083	.037	.126	.072	.032	.087	.050	.023	.050	.030	.014	.016	.010	.005	
7.0	.139	.076	.032	.120	.066	.028	.083	.046	.020	.048	.027	.012	.016	.009	.004	
8.0	.133	.070	.028	.114	.061	.024	.079	.043	.017	.046	.025	.010	.015	.008	.003	
9.0	.126	.065	.024	.109	.057	.021	.075	.040	.015	.044	.024	.009	.014	.008	.003	
10.0	.120	.061	.022	.104	.053	.019	.072	.037	.013	.042	.022	.008	.014	.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:239.94V I:0.0219A P:5.1290W PF:0.9765 Freq:50.09Hz Lamp Flux:86.1919x1 lm											
NAME: CHROME DOME_WALL_KIT_RND_WHT_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	25.3	26.9	25.6	27.1	27.4	25.1	26.7	25.4	26.9	27.2	
	3H	26.8	28.3	27.1	28.5	28.8	26.6	28.1	26.9	28.3	28.6
	4H	27.3	28.8	27.7	29.0	29.3	27.1	28.6	27.5	28.8	29.1
	6H	27.9	29.2	28.2	29.5	29.8	27.7	29.0	28.0	29.3	29.6
	8H	28.1	29.4	28.4	29.7	30.0	27.9	29.2	28.2	29.5	29.8
	12H	28.4	29.6	28.7	29.9	30.2	28.1	29.4	28.5	29.7	30.0
4H 2H	25.9	27.3	26.2	27.6	27.9	25.7	27.2	26.1	27.4	27.7	
	3H	27.5	28.8	27.9	29.1	29.4	27.4	28.6	27.7	28.9	29.2
	4H	28.2	29.4	28.6	29.7	30.0	28.1	29.2	28.5	29.6	29.9
	6H	28.9	29.9	29.3	30.3	30.7	28.7	29.8	29.1	30.1	30.5
	8H	29.2	30.2	29.6	30.6	31.0	29.1	30.0	29.5	30.4	30.8
	12H	29.6	30.5	30.0	30.9	31.3	29.4	30.3	29.8	30.7	31.1
8H 4H	28.5	29.5	28.9	29.8	30.2	28.4	29.3	28.8	29.7	30.1	
	6H	29.4	30.2	29.8	30.6	31.0	29.2	30.0	29.7	30.4	30.9
	8H	29.8	30.5	30.3	31.0	31.4	29.7	30.4	30.1	30.8	31.3
	12H	30.3	31.0	30.8	31.4	31.9	30.1	30.8	30.6	31.2	31.7
12H 4H	28.5	29.4	28.9	29.8	30.2	28.4	29.3	28.8	29.7	30.1	
	6H	29.5	30.2	29.9	30.6	31.1	29.3	30.0	29.8	30.5	30.9
	8H	30.0	30.6	30.5	31.1	31.5	29.8	30.5	30.3	30.9	31.4
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2					
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.4					
2.0H	+ 0.2 / - 0.5					+ 0.2 / - 0.5					

CIE Pub.117, 86.19 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -8.5$)

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:

UTILIZATION FACTORS TABLE

Test:U:239.94V I:0.0219A P:5.1290W PF:0.9765 Freq:50.09Hz Lamp Flux:86.1919x1 lm		
NAME: CHROME DOME_WALL_KIT_RND_WHT_2700K_5W	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

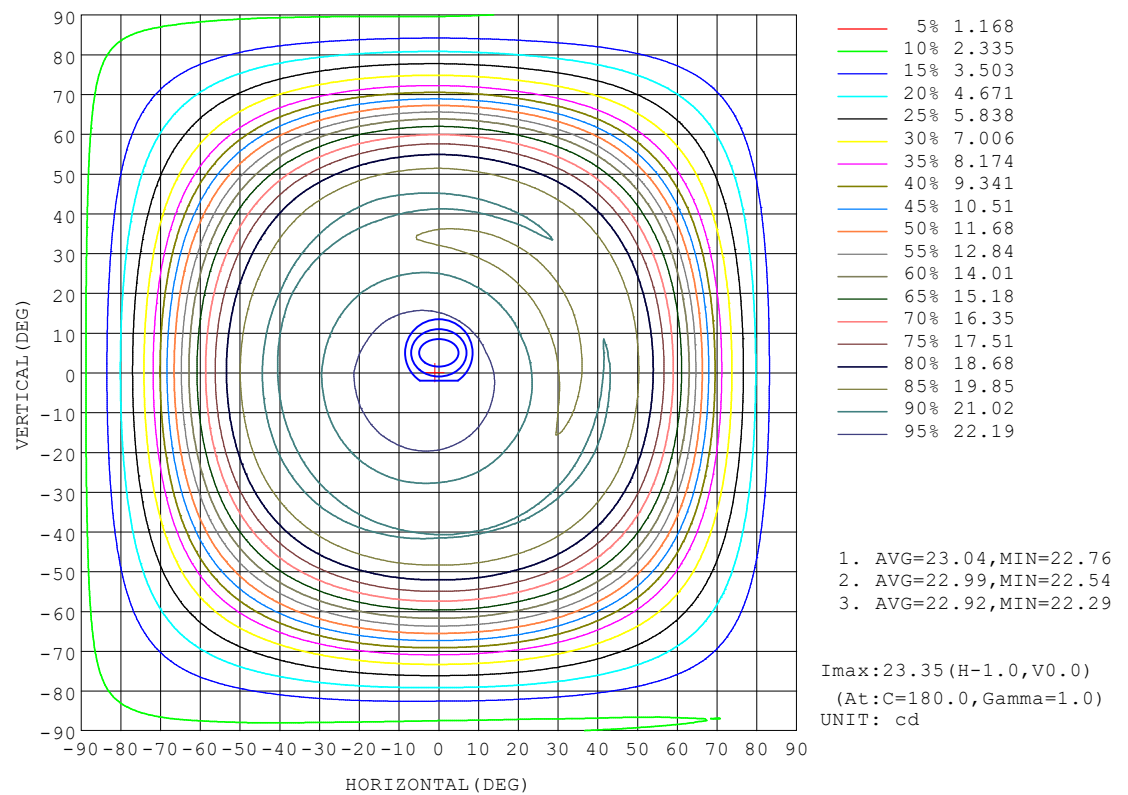
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	52	40	32	52	40	32	50	39	32	25
0.80	63	50	42	62	49	42	60	49	41	34
1.00	71	59	51	70	59	51	68	60	50	43
1.25	79	67	59	77	67	59	75	65	58	50
1.50	84	73	66	83	72	65	79	71	64	56
2.00	92	82	75	90	81	74	86	79	73	64
2.50	96	87	81	94	86	80	90	83	78	69
3.00	100	92	86	98	90	85	93	87	83	74
4.00	104	98	92	102	96	91	97	92	88	79
5.00	107	101	97	104	99	95	100	96	92	82
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

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:

ISOCANDELA DIAGRAM

Test:U:239.94V I:0.0219A P:5.1290W PF:0.9765 Freq:50.09Hz Lamp Flux:86.1919x1 lm		
NAME: CHROME DOME WALL KIT_RND_WHT_2700K_5W	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

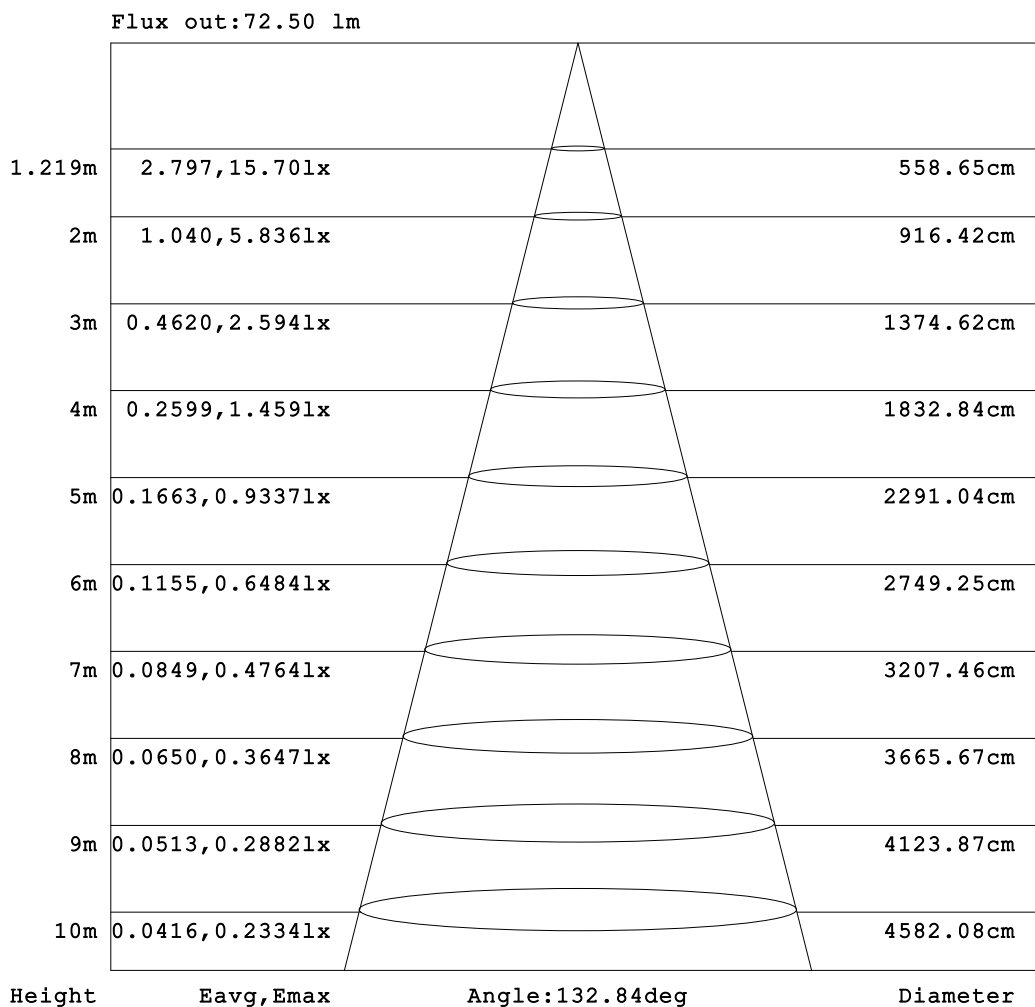


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:08 November 2019

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:239.94V I:0.0219A P:5.1290W PF:0.9765 Freq:50.09Hz Lamp Flux:86.1919x1 lm		
NAME: CHROME DOME WALL KIT_RND_WHT_2700K_5W	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



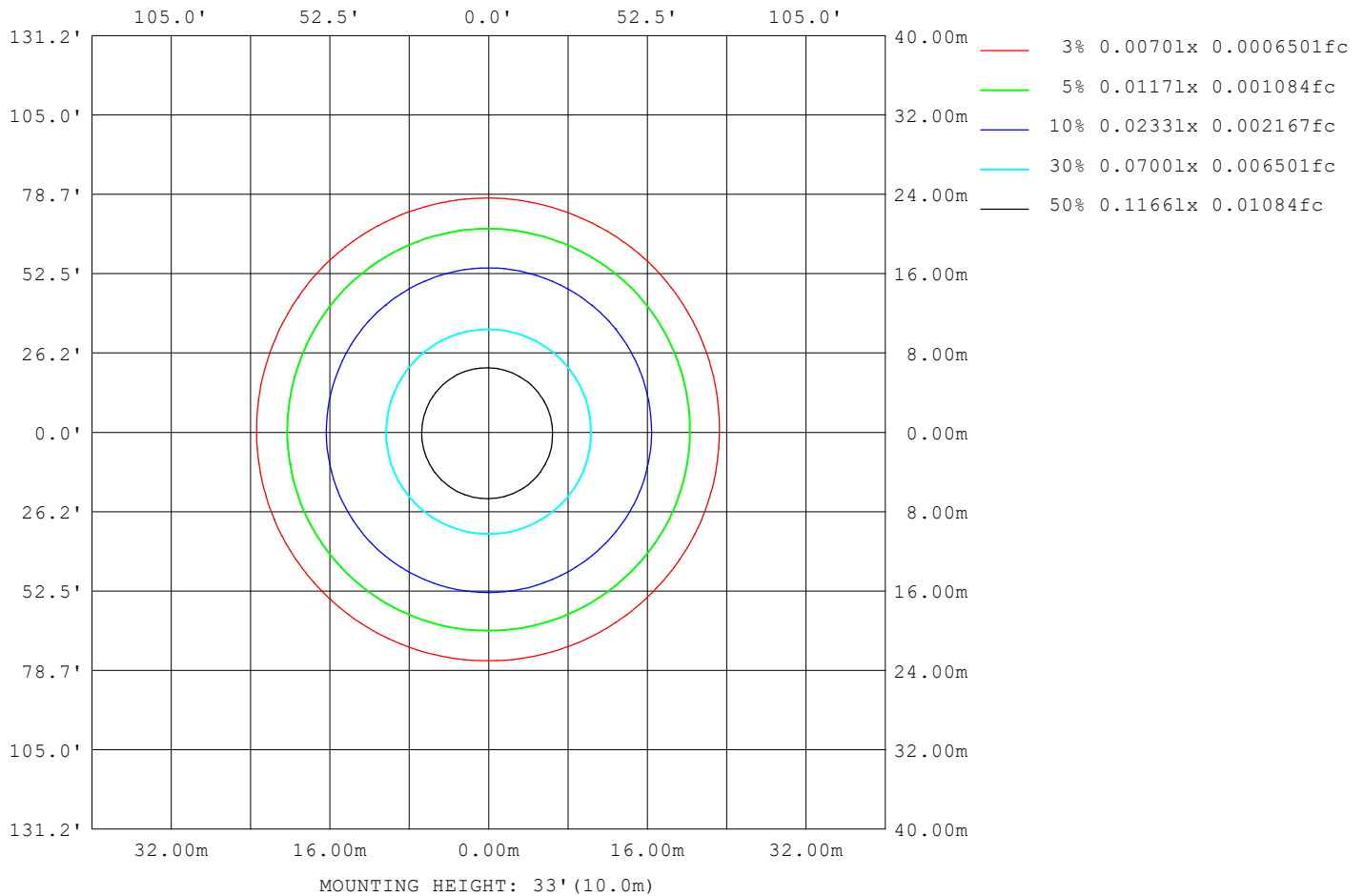
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:239.94V I:0.0219A P:5.1290W PF:0.9765 Freq:50.09Hz Lamp Flux:86.1919x1 lm		
NAME: CHROME DOME WALL KIT_RND_WHT_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:239.94V I:0.0219A P:5.1290W PF:0.9765 Freq:50.09Hz Lamp Flux:86.1919x1 lm		
NAME: CHROME DOME WALL KIT_RND_WHT_2700K_5W	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

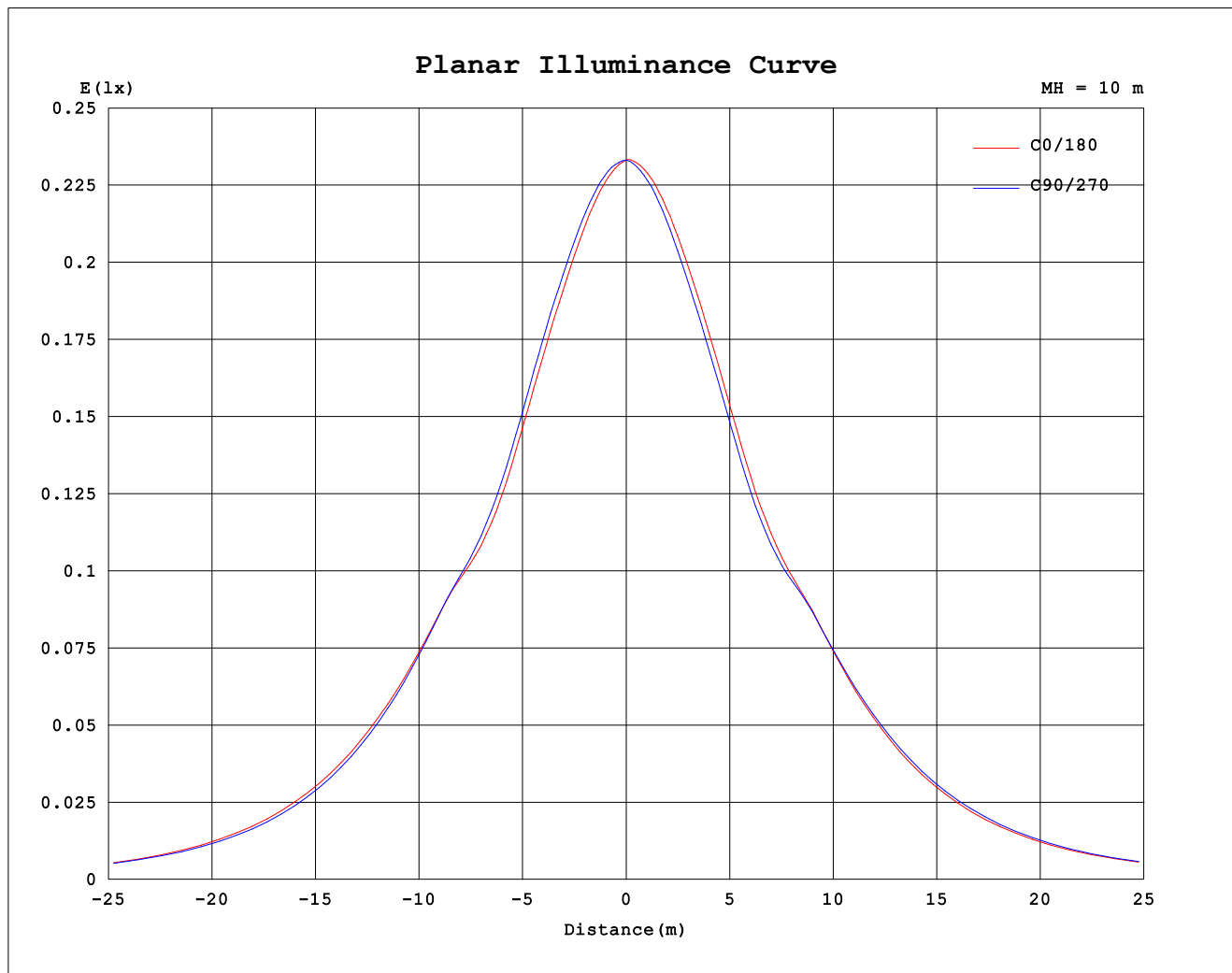
AvgL	cd/m2
L_0~180 (65) av	2648
L_0~180 (75) av	2244
L_0~180 (85) av	3073
L_90~270 (65) av	2644
L_90~270 (75) av	2263
L_90~270 (85) av	3071
L_45 (65) av	2658
L_45 (75) av	2264
L_45 (85) av	3098

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

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:

```

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:

```