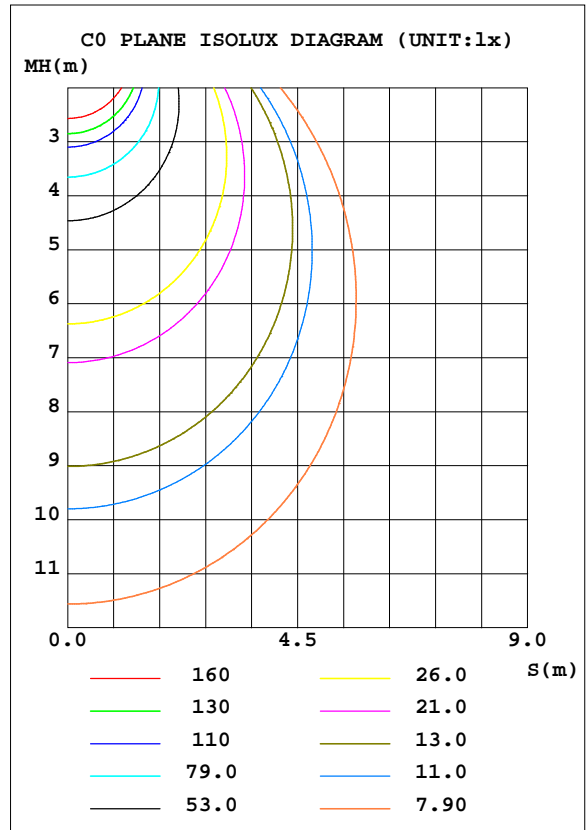
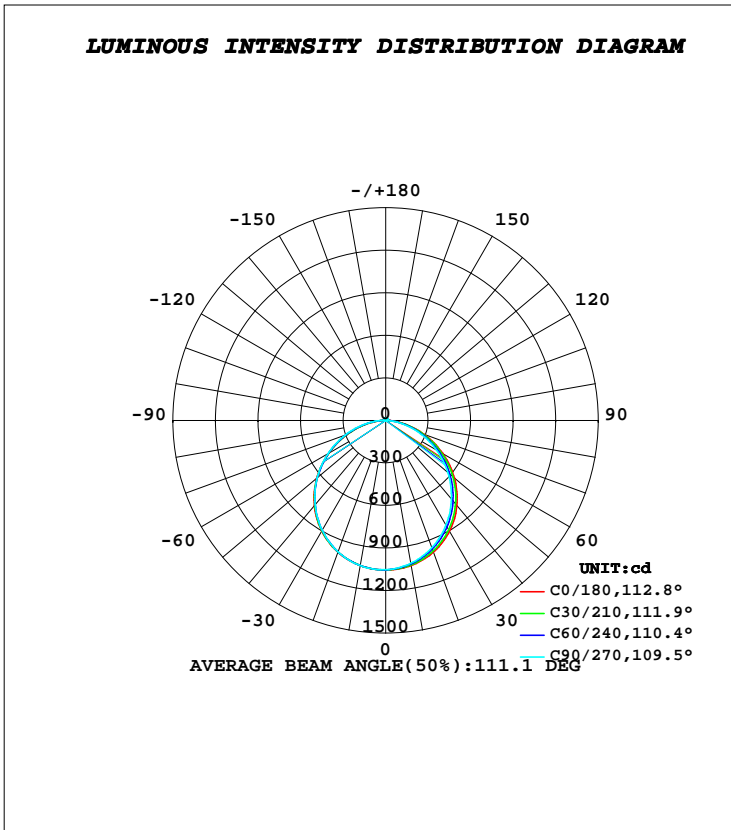


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.3V I:0.1090A P:23.30W PF:0.9670 Lamp Flux:3066.92x1 lm		
NAME: 600X600-25W	TYPE:LED	
DIM.: 595*595mm	SUR.:550*550mm	
MFR.:		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 131.63 lm/W			
MODEL	600X600-25W	I _{max} (cd)	1056	S/MH(C0/180)	1.27
NOMINAL POWER(W)	25	LOR(%)	100.0	S/MH(C90/270)	1.21
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	3066.9	η UP, DN(C0-180)	1.2, 46.8
NOMINAL FLUX(lm)	3066.92	CIE CLASS	DIRECT	η UP, DN(C180-360)	1.3, 50.8
LAMPS INSIDE	1	η up(%)	2.5	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220.2	η down(%)	97.5	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017-12-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:8.000m [K=0.7063]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1039	1031	1023	1023	1039	1039	1039	1043	0- 10	99.64	99.64	3.25,3.25
20	988.4	971.8	954.8	957.3	988.4	986.2	985.9	996.3	10- 20	285.3	384.9	12.5,12.5
30	902.0	878.0	851.8	856.8	902.1	897.8	895.9	914.0	20- 30	431.7	816.6	26.6,26.6
40	782.1	753.8	722.6	727.3	782.6	776.9	775.0	798.8	30- 40	518.7	1335	43.5,43.5
50	633.4	605.1	573.1	574.3	636.7	631.2	631.4	657.6	40- 50	534.9	1870	61,61
60	464.7	440.2	412.3	408.7	466.1	465.2	471.3	494.9	50- 60	479.5	2350	76.6,76.6
70	288.6	271.0	248.7	240.2	290.3	294.4	306.5	324.9	60- 70	363.9	2714	88.5,88.5
80	123.4	112.8	97.12	86.83	127.6	133.2	147.0	159.9	70- 80	212.5	2926	95.4,95.4
90	6.235	6.460	6.218	6.395	8.453	12.11	19.78	27.88	80- 90	65.03	2991	97.5,97.5
100	7.479	7.476	7.621	7.824	9.447	9.545	8.978	9.259	90-100	8.958	3000	97.8,97.8
110	9.421	9.412	9.558	9.746	11.18	11.14	10.75	10.88	100-110	9.917	3010	98.1,98.1
120	11.29	11.26	11.40	11.57	12.86	12.73	12.41	12.50	110-120	11.05	3021	98.5,98.5
130	12.90	12.85	12.94	13.10	14.27	14.07	13.82	13.95	120-130	11.45	3032	98.9,98.9
140	13.99	14.02	14.09	14.25	15.17	15.03	14.83	14.94	130-140	10.87	3043	99.2,99.2
150	15.03	15.16	15.26	15.35	16.00	15.88	15.72	15.82	140-150	9.421	3053	99.5,99.5
160	16.51	16.68	16.76	16.81	17.15	17.00	16.89	16.91	150-160	7.460	3060	99.8,99.8
170	18.00	18.08	18.03	18.13	18.25	18.17	18.11	18.10	160-170	4.954	3065	99.9,99.9
180	18.27	18.35	18.19	18.40	18.30	18.35	18.19	18.40	170-180	1.743	3067	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

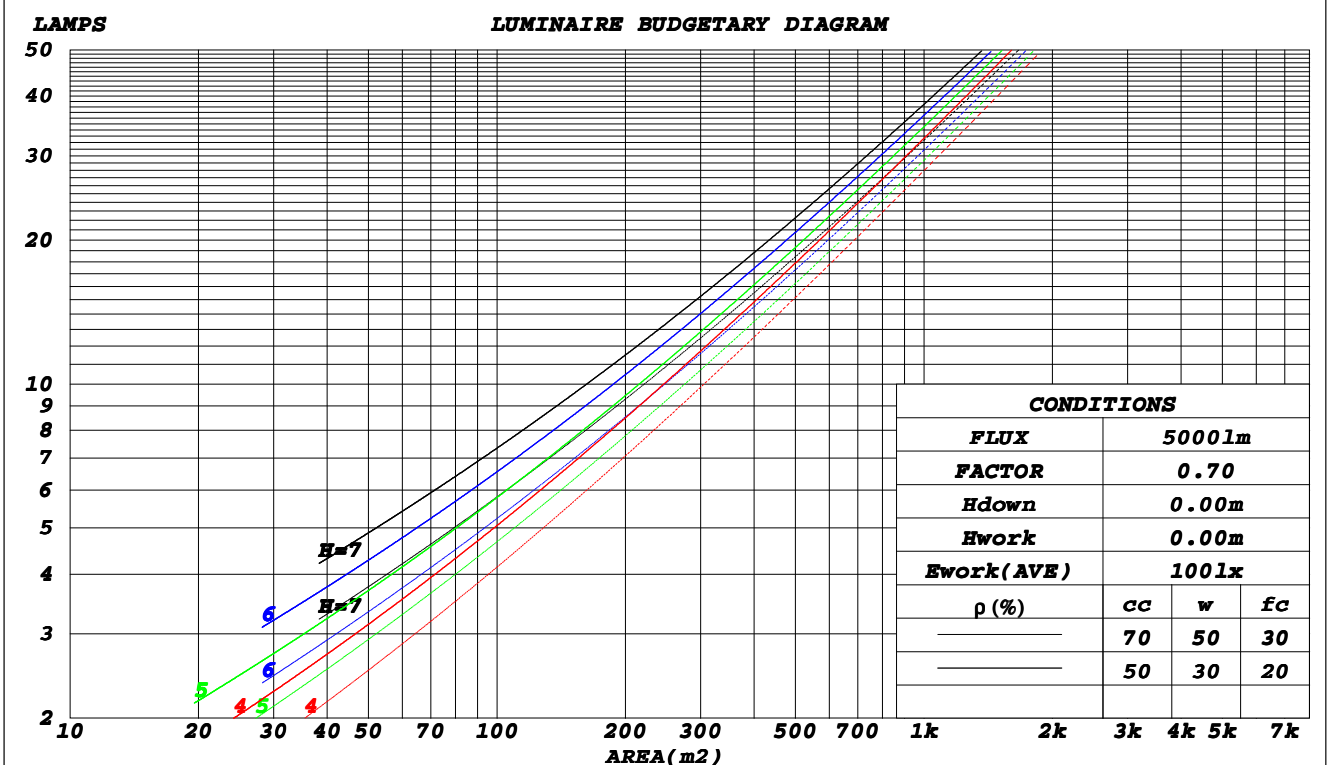
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017-12-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:8.000m [K=0.7063]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.3V I:0.1090A P:23.30W PF:0.9670 Lamp Flux:3066.92x1 lm		
NAME: 600X600-25W	TYPE:LED	
DIM.: 595*595mm	SUR.:550*550mm	
MFR.:		

ρ_{cc}	80%			70%			50%			30%			10%			0														
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
ρ_{fc}	20%			20%			20%			20%			20%			0														
RCR	RCR:Room Cavity Ratio															Coefficients of Utilization(CU)														
0.0	1.18	1.18	1.18	1.15	1.15	1.15	1.10	1.10	1.10	1.05	1.05	1.05	.00	.00	.00	.98														
1.0	1.03	.99	.95	1.01	.97	.93	.96	.93	.90	.92	.89	.87	.88	.86	.84	.81														
2.0	.90	.83	.77	.88	.81	.76	.84	.79	.74	.80	.76	.72	.77	.73	.70	.68														
3.0	.79	.71	.64	.77	.69	.63	.74	.67	.62	.71	.65	.61	.68	.63	.59	.57														
4.0	.70	.61	.54	.68	.60	.54	.65	.58	.53	.63	.57	.52	.60	.55	.51	.49														
5.0	.62	.53	.47	.61	.53	.46	.59	.51	.46	.56	.50	.45	.54	.49	.44	.42														
6.0	.56	.47	.41	.55	.47	.40	.53	.45	.40	.51	.44	.39	.49	.43	.39	.37														
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.46	.40	.35	.45	.39	.34	.32														
8.0	.46	.38	.32	.46	.37	.32	.44	.37	.31	.43	.36	.31	.41	.35	.31	.29														
9.0	.43	.34	.29	.42	.34	.29	.41	.33	.28	.39	.33	.28	.38	.32	.28	.26														
10.0	.39	.31	.26	.39	.31	.26	.37	.31	.26	.36	.30	.25	.35	.29	.25	.23														



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2017-12-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity: 65.0%
 Test Distance: 8.000m [K=0.7063]
 Remarks:

WEC AND CCEC

Test:U:220.3V I:0.1090A P:23.30W PF:0.9670 Lamp Flux:3066.92x1 lm		
NAME: 600X600-25W	TYPE:LED	
DIM.: 595*595mm	SUR.:550*550mm	
MFR.:		

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	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	.289	.166	.053	.275	.159	.051	.263	.152	.049	
2.0	.292	.160	.049	.285	.157	.048	.272	.151	.047	.260	.146	.046	.249	.141	.044	
3.0	.269	.143	.043	.263	.141	.042	.252	.136	.041	.241	.132	.041	.231	.128	.040	
4.0	.248	.129	.038	.243	.127	.038	.233	.123	.037	.223	.120	.036	.214	.116	.035	
5.0	.230	.117	.034	.225	.115	.034	.215	.112	.033	.207	.109	.032	.199	.106	.032	
6.0	.213	.107	.031	.208	.105	.030	.200	.103	.030	.193	.100	.029	.185	.098	.029	
7.0	.198	.098	.028	.194	.097	.028	.187	.094	.027	.180	.092	.027	.173	.090	.026	
8.0	.185	.090	.025	.181	.089	.025	.175	.087	.025	.169	.085	.025	.163	.083	.024	
9.0	.173	.084	.023	.170	.083	.023	.164	.081	.023	.158	.079	.023	.153	.078	.022	
10.0	.163	.078	.022	.160	.077	.022	.155	.076	.021	.149	.074	.021	.145	.073	.021	

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0																
1.0	.209	.209	.209	.179	.179	.179	.122	.122	.122	.070	.070	.070	.022	.022	.022	
2.0	.199	.175	.153	.171	.150	.132	.117	.103	.091	.067	.060	.053	.022	.019	.017	
3.0	.191	.151	.117	.164	.130	.101	.112	.090	.071	.065	.052	.041	.021	.017	.013	
4.0	.184	.134	.094	.157	.115	.081	.108	.080	.057	.062	.047	.034	.020	.015	.011	
5.0	.176	.120	.078	.151	.104	.068	.104	.072	.048	.060	.042	.028	.019	.014	.009	
6.0	.169	.110	.067	.145	.095	.058	.100	.066	.041	.058	.039	.024	.019	.013	.008	
7.0	.161	.102	.059	.139	.088	.051	.096	.062	.036	.056	.036	.021	.018	.012	.007	
8.0	.155	.095	.053	.133	.082	.046	.092	.058	.033	.053	.034	.019	.017	.011	.006	
9.0	.148	.089	.048	.128	.077	.042	.088	.054	.030	.051	.032	.018	.017	.010	.006	
10.0	.142	.084	.045	.122	.073	.039	.085	.051	.028	.049	.030	.017	.016	.010	.005	
10.0	.136	.080	.042	.118	.069	.037	.082	.049	.026	.048	.029	.016	.015	.009	.005	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2017-12-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity:65.0%
 Test Distance:8.000m [K=0.7063]
 Remarks:

Uncorrected UGR Table

Test:U:220.3V I:0.1090A P:23.30W PF:0.9670 Lamp Flux:3066.92x1 lm		
NAME: 600X600-25W	TYPE:LED	
DIM.: 595*595mm	SUR.:550*550mm	
MFR.:		

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	16.7	18.2	17.0	18.5	18.7	16.2	17.7	16.5	18.0	18.2
3H	18.2	19.6	18.6	19.9	20.2	17.6	19.0	18.0	19.3	19.6
4H	18.8	20.1	19.2	20.4	20.7	18.2	19.5	18.5	19.8	20.1
6H	19.3	20.5	19.6	20.8	21.2	18.5	19.7	18.9	20.0	20.4
8H	19.4	20.6	19.8	20.9	21.3	18.6	19.8	19.0	20.1	20.5
12H	19.5	20.7	19.9	21.0	21.4	18.6	19.8	19.0	20.1	20.5
4H 2H	17.3	18.6	17.6	18.9	19.2	16.9	18.2	17.2	18.5	18.8
3H	19.0	20.1	19.3	20.4	20.8	18.4	19.6	18.8	19.9	20.3
4H	19.7	20.7	20.1	21.1	21.5	19.1	20.1	19.5	20.5	20.9
6H	20.3	21.2	20.7	21.6	22.0	19.6	20.5	20.0	20.9	21.3
8H	20.5	21.3	20.9	21.7	22.2	19.7	20.6	20.2	21.0	21.4
12H	20.6	21.4	21.1	21.8	22.3	19.8	20.6	20.2	21.0	21.4
8H 4H	19.9	20.8	20.4	21.2	21.6	19.4	20.2	19.8	20.7	21.1
6H	20.6	21.3	21.1	21.8	22.3	20.0	20.7	20.5	21.2	21.6
8H	20.9	21.6	21.4	22.0	22.5	20.2	20.8	20.7	21.3	21.8
12H	21.1	21.7	21.7	22.2	22.7	20.3	20.9	20.8	21.4	21.9
12H 4H	19.9	20.7	20.4	21.1	21.6	19.4	20.2	19.9	20.6	21.1
6H	20.7	21.3	21.2	21.8	22.3	20.1	20.7	20.6	21.2	21.7
8H	21.0	21.5	21.5	22.0	22.6	20.3	20.9	20.8	21.3	21.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 3067 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.9)

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2017-12-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity:65.0%
 Test Distance:8.000m [K=0.7063]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.3V I:0.1090A P:23.30W PF:0.9670 Lamp Flux:3066.92x1 lm		
NAME: 600X600-25W	TYPE:LED	
DIM.: 595*595mm	SUR.:550*550mm	
MFR.:		

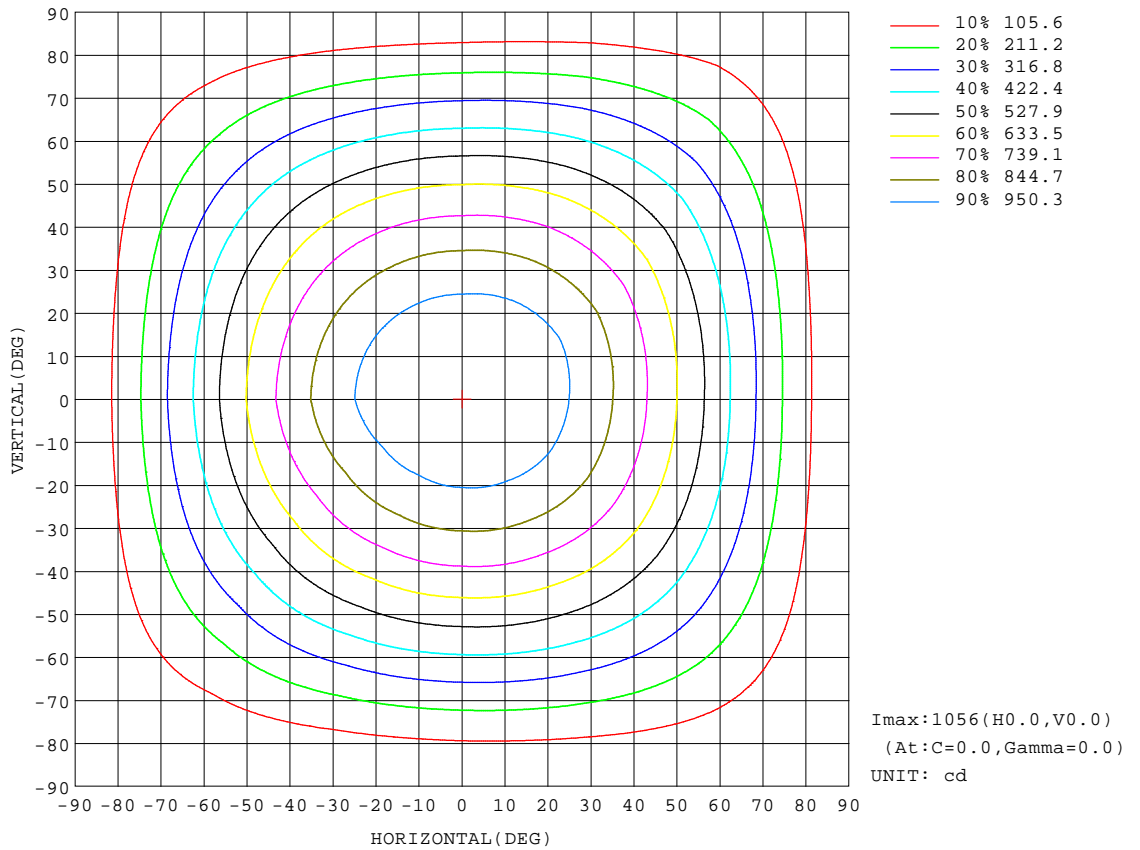
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	45	38	56	45	38	55	44	38	31
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	63	56	71	65	56	48
1.25	82	72	64	81	71	64	78	69	63	55
1.50	87	77	70	85	76	70	82	74	68	60
2.00	94	85	79	92	84	78	88	82	76	68
2.50	98	90	84	96	89	83	92	86	81	72
3.00	101	94	89	99	93	88	95	89	85	76
4.00	105	100	95	103	98	93	98	94	90	81
5.00	108	103	99	105	101	97	100	97	94	84
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017-12-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:8.000m [K=0.7063]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.3V I:0.1090A P:23.30W PF:0.9670 Lamp Flux:3066.92x1 lm		
NAME: 600X600-25W	TYPE:LED	
DIM.: 595*595mm	SUR.:550*550mm	
MFR.:		



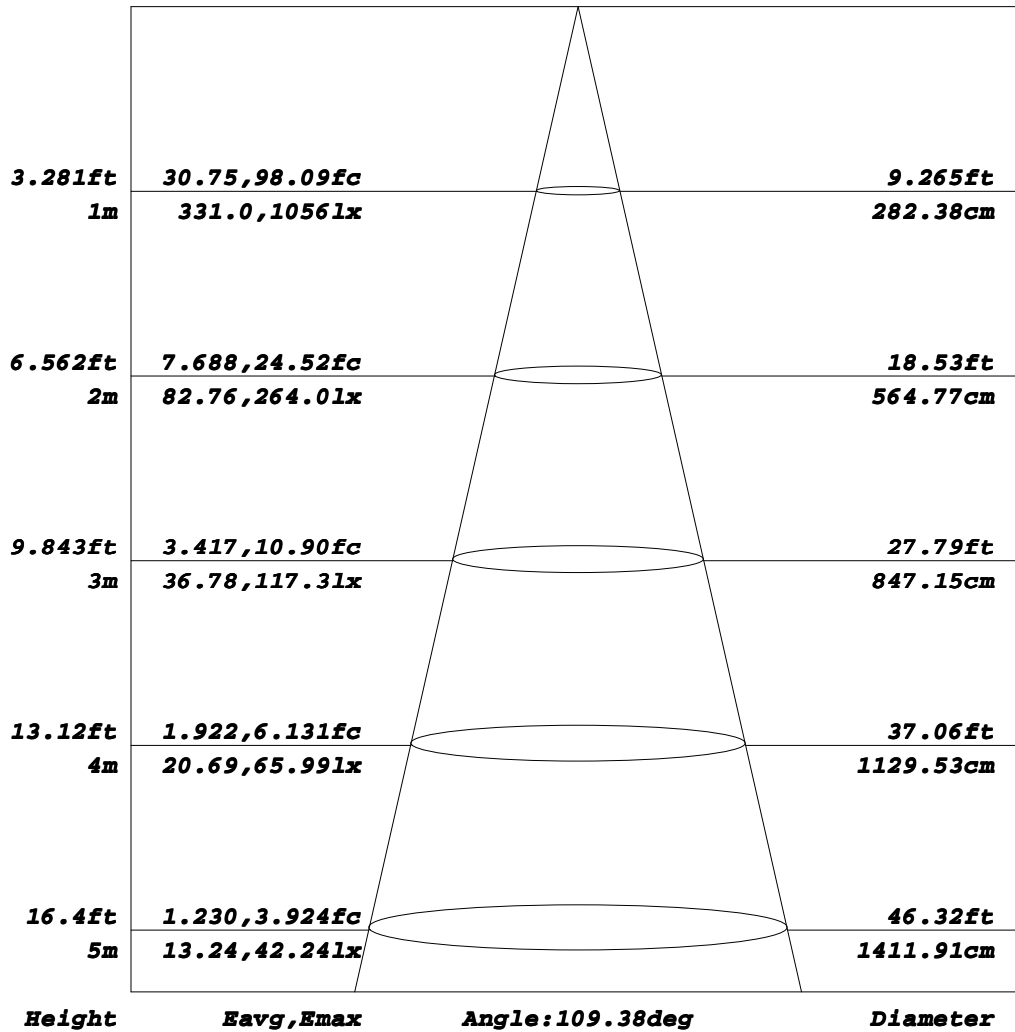
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017-12-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:8.000m [K=0.7063]
Remarks:

AAI Figure

Test:U:220.3V I:0.1090A P:23.30W PF:0.9670 Lamp Flux:3066.92x1 lm		
NAME: 600X600-25W	TYPE:LED	
DIM.: 595*595mm	SUR.:550*550mm	
MFR.:		

Flux out:2121 lm



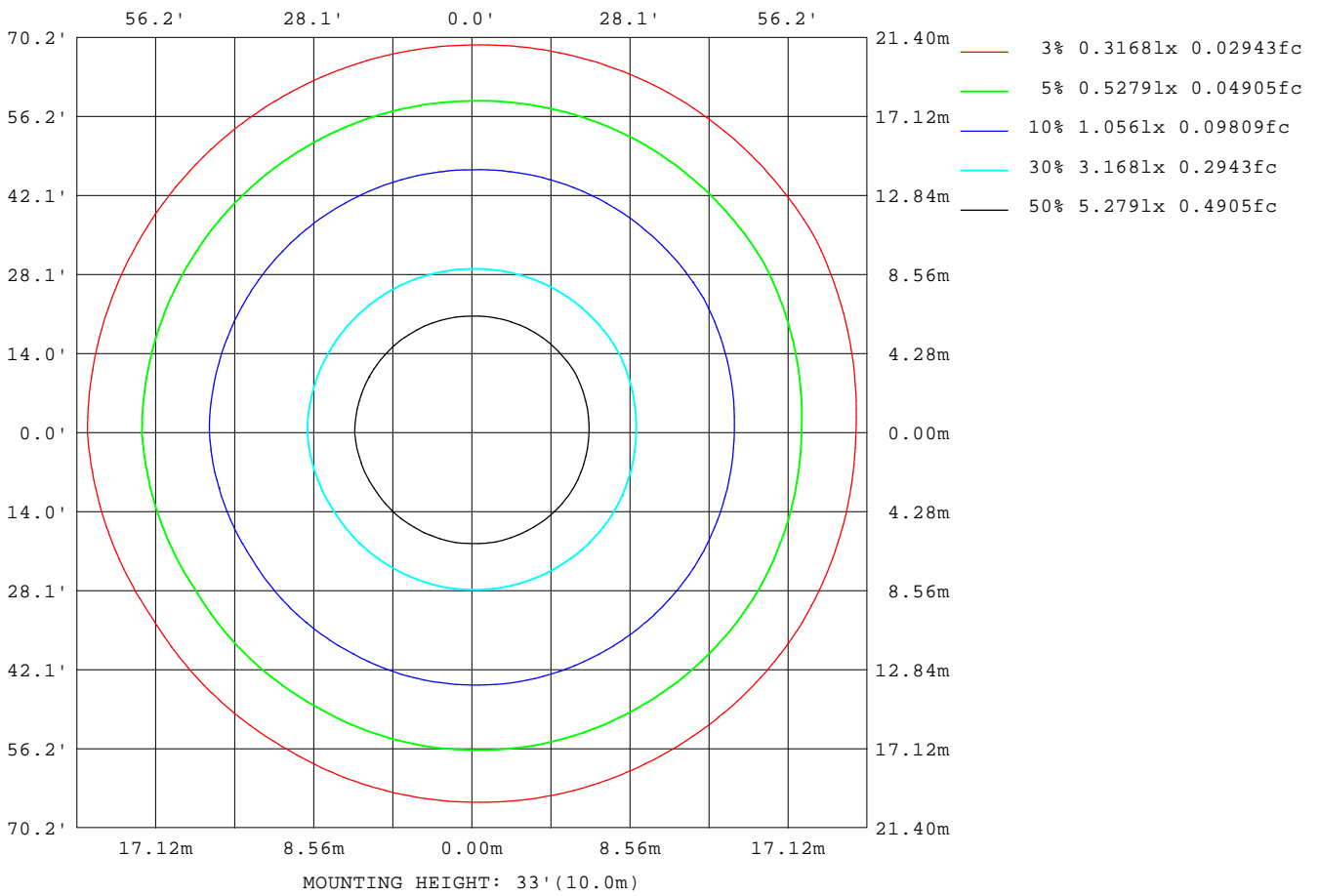
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2017-12-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity: 65.0%
 Test Distance: 8.000m [K=0.7063]
 Remarks:

ISOLUX DIAGRAM

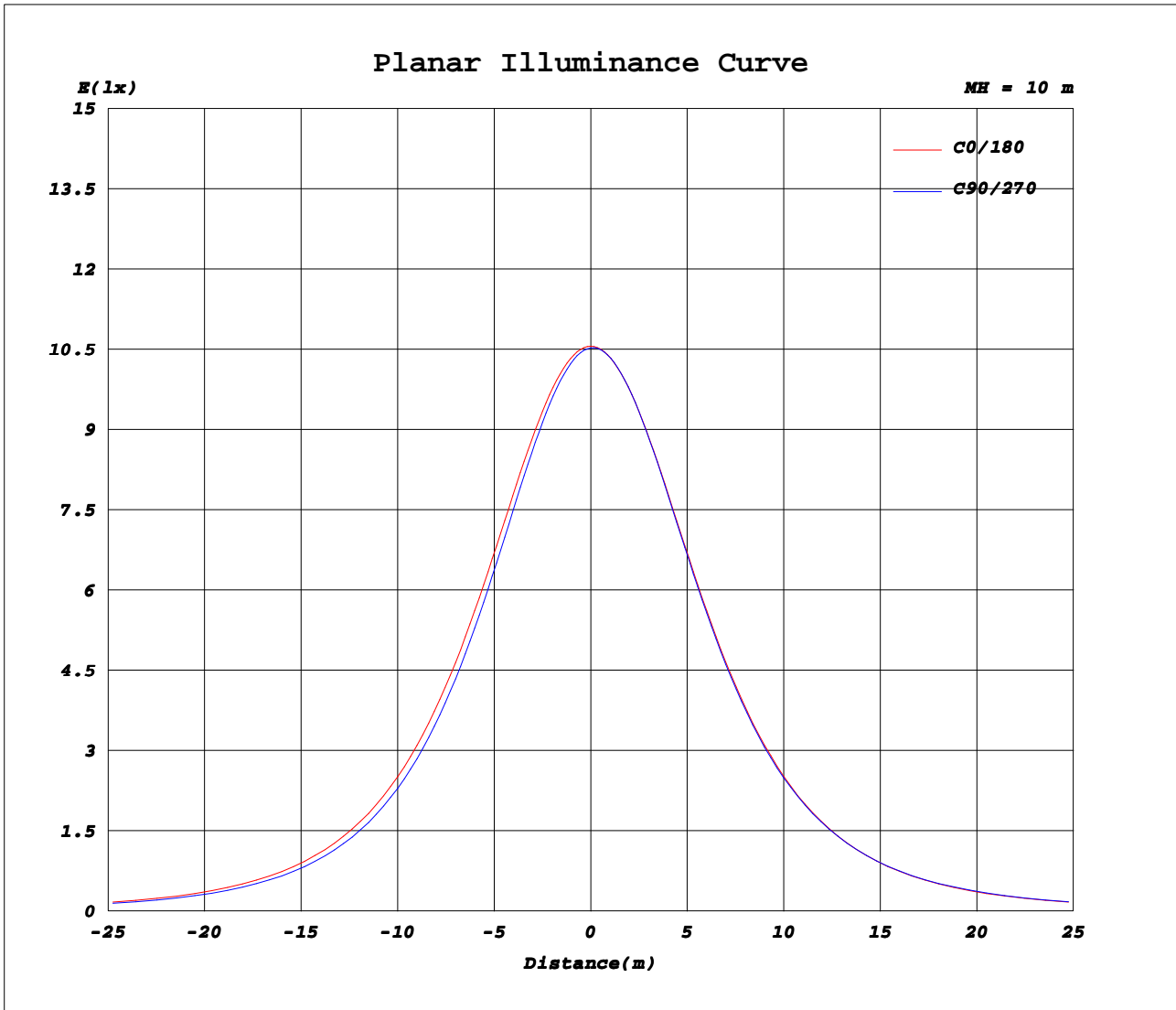
Test:U:220.3V I:0.1090A P:23.30W PF:0.9670 Lamp Flux:3066.92x1 lm		
NAME: 600X600-25W	TYPE:LED	
DIM.: 595*595mm	SUR.:550*550mm	
MFR.:		



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2017-12-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity: 65.0%
Test Distance: 8.000m [K=0.7063]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2017-12-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity: 65.0%
Test Distance: 8.000m [K=0.7063]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.3V I:0.1090A P:23.30W PF:0.9670 Lamp Flux:3066.92x1 lm		
NAME: 600X600-25W	TYPE:LED	
DIM.: 595*595mm	SUR.:550*550mm	
MFR.:		

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	1056	1054	1053	1053	1052	1052	1056	1054	1053	1053	1052	1052							
5	1052	1049	1046	1043	1041	1043	1052	1051	1051	1052	1052	1052							
10	1039	1035	1028	1023	1021	1025	1039	1038	1039	1039	1043	1043							
15	1018	1011	1001	993	991	997	1018	1017	1017	1017	1023	1025							
20	988	979	964	955	952	962	988	987	985	986	994	999							
25	950	939	919	907	904	917	950	948	945	945	956	963							
30	902	890	866	852	849	864	902	900	896	896	909	919							
35	846	833	806	790	787	804	847	843	839	839	854	866							
40	782	768	740	723	719	736	783	779	775	775	792	805							
45	711	697	668	650	645	662	713	708	706	705	725	737							
50	633	620	590	573	566	582	637	632	631	631	652	663							
55	551	537	511	494	486	500	552	550	549	553	572	584							
60	465	452	428	412	403	415	466	464	466	471	490	499							
65	377	367	345	330	319	328	378	378	382	390	407	415							
70	289	280	262	249	237	243	290	291	298	306	323	327							
75	203	198	181	170	158	163	206	206	215	225	240	241							
80	123	120	106	97.1	85.2	88.5	128	127	139	147	160	160							
85	56.0	51.8	41.8	33.7	24.8	26.5	58.2	59.5	67.1	76.3	89.1	87.2							
90	6.24	6.47	6.45	6.22	6.23	6.56	8.45	8.48	15.7	19.8	28.2	27.5							
95	6.75	6.64	6.54	6.64	6.82	6.92	8.89	8.85	8.67	8.49	8.41	8.58							
100	7.48	7.44	7.51	7.62	7.80	7.85	9.45	9.66	9.43	8.98	9.16	9.35							
105	8.47	8.42	8.48	8.59	8.76	8.82	10.3	10.5	10.2	9.93	9.98	10.2							
110	9.42	9.38	9.44	9.56	9.71	9.78	11.2	11.2	11.0	10.8	10.8	11.0							
115	10.4	10.3	10.4	10.5	10.6	10.7	12.0	12.0	11.8	11.6	11.6	11.8							
120	11.3	11.2	11.3	11.4	11.5	11.6	12.9	12.9	12.6	12.4	12.4	12.6							
125	12.1	12.1	12.1	12.2	12.3	12.4	13.6	13.6	13.3	13.2	13.2	13.4							
130	12.9	12.8	12.9	12.9	13.0	13.2	14.3	14.2	14.0	13.8	13.8	14.1							
135	13.5	13.5	13.5	13.6	13.6	13.8	14.8	14.7	14.5	14.4	14.4	14.6							
140	14.0	14.0	14.0	14.1	14.2	14.3	15.2	15.1	15.0	14.8	14.8	15.1							
145	14.4	14.5	14.6	14.6	14.7	14.8	15.5	15.5	15.4	15.2	15.3	15.5							
150	15.0	15.2	15.2	15.3	15.3	15.4	16.0	15.9	15.9	15.7	15.7	16.0							
155	15.7	15.8	15.9	16.0	16.0	16.0	16.5	16.4	16.4	16.3	16.2	16.5							
160	16.5	16.6	16.7	16.8	16.8	16.8	17.2	17.0	17.0	16.9	16.8	17.0							
165	17.4	17.4	17.5	17.6	17.5	17.6	17.8	17.7	17.6	17.6	17.5	17.6							
170	18.0	18.0	18.2	18.0	18.1	18.2	18.3	18.3	18.1	18.1	18.1	18.1							
175	18.3	18.4	18.5	18.3	18.4	18.5	18.3	18.3	18.2	18.1	18.3	18.2							
180	18.3	18.4	18.3	18.2	18.4	18.4	18.3	18.4	18.3	18.2	18.4	18.4							

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017-12-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:8.000m [K=0.7063]
Remarks: