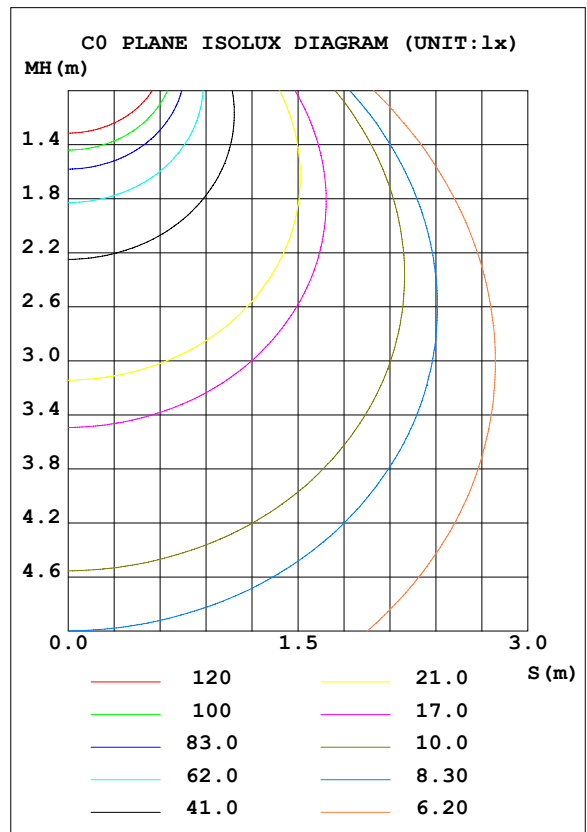
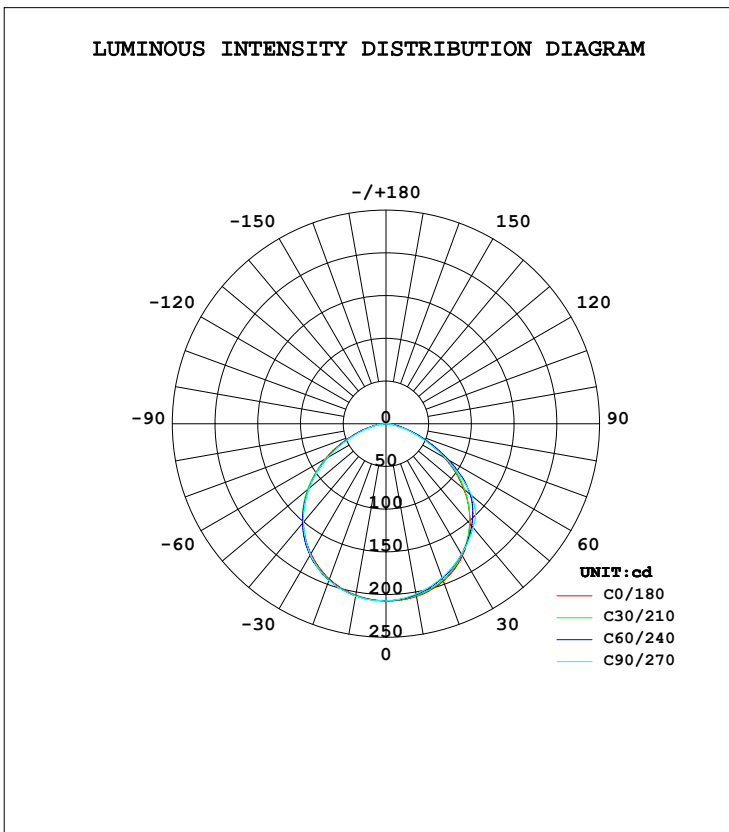


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: X-Glo-UL-36	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 100.75 lm/W			
MODEL	5050	I <sub>max</sub> (cd)	207.5	S/MH (C0/180)	1.26
NOMINAL POWER (W)	5.5	LOR (%)	92.4	S/MH (C90/270)	1.26
RATED VOLTAGE (V)	36	TOTAL FLUX (lm)	554.13	η UP, DN (C0-180)	0.0, 45.9
NOMINAL FLUX (lm)	600	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 46.5
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	36	η down (%)	92.4	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 28.5DEG  
Operators:  
Test Date:

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V1.0.257  
Humidity: 64%  
Test Distance: 6.810m [K=0.8223]  
Remarks:

**ZONAL FLUX DIAGRAM**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	lum, lamp
5	206.2	206.6	206.9	206.9	207.1	206.2	205.6	205.6	0- 5	4.944	4.944	0.89,0.82
10	203.6	204.4	204.9	204.9	205.3	203.8	202.5	202.3	5- 10	14.67	19.62	3.54,3.27
15	199.6	200.7	200.8	201.2	201.6	199.6	197.5	197.8	10- 15	23.95	43.56	7.86,7.26
20	193.5	194.9	195.2	195.6	196.1	193.4	191.8	191.3	15- 20	32.44	76.00	13.7,12.7
25	185.5	187.3	187.2	187.8	188.4	185.7	184.7	183.2	20- 25	39.86	115.9	20.9,19.3
30	175.7	177.8	177.2	177.8	178.7	176.5	176.7	173.6	25- 30	45.92	161.8	29.2,27
35	164.1	166.1	164.5	165.6	167.0	165.8	167.8	162.6	30- 35	50.38	212.2	38.3,35.4
40	150.7	152.6	150.4	151.3	153.1	153.6	159.0	150.6	35- 40	53.05	265.2	47.9,44.2
45	135.4	136.6	134.7	135.0	136.9	139.7	148.2	136.8	40- 45	53.79	319.0	57.6,53.2
50	118.7	119.2	117.7	117.0	119.0	123.8	131.0	121.6	45- 50	52.36	371.4	67,61.9
55	100.5	99.89	98.54	98.06	99.33	105.7	105.1	104.2	50- 55	48.42	419.8	75.8,70
60	81.59	80.29	78.53	78.24	78.63	85.16	80.06	85.27	55- 60	42.14	461.9	83.4,77
65	61.70	60.58	58.16	58.20	58.23	64.09	57.26	64.52	60- 65	34.21	496.1	89.5,82.7
70	43.27	42.23	39.54	39.71	39.32	44.22	37.52	44.46	65- 70	25.47	521.6	94.1,86.9
75	27.25	26.45	24.66	24.06	23.66	27.18	22.11	27.22	70- 75	17.01	538.6	97.2,89.8
80	14.84	14.29	12.18	13.03	12.63	14.30	9.983	14.13	75- 80	9.878	548.5	99,91.4
85	6.665	6.176	2.763	5.883	5.480	5.929	2.364	6.188	80- 85	4.732	553.2	99.8,92.2
90	3.066	0	0	0	2.794	0	0	0	85- 90	0.8924	554.1	100,92.4
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd								UNIT:lm			

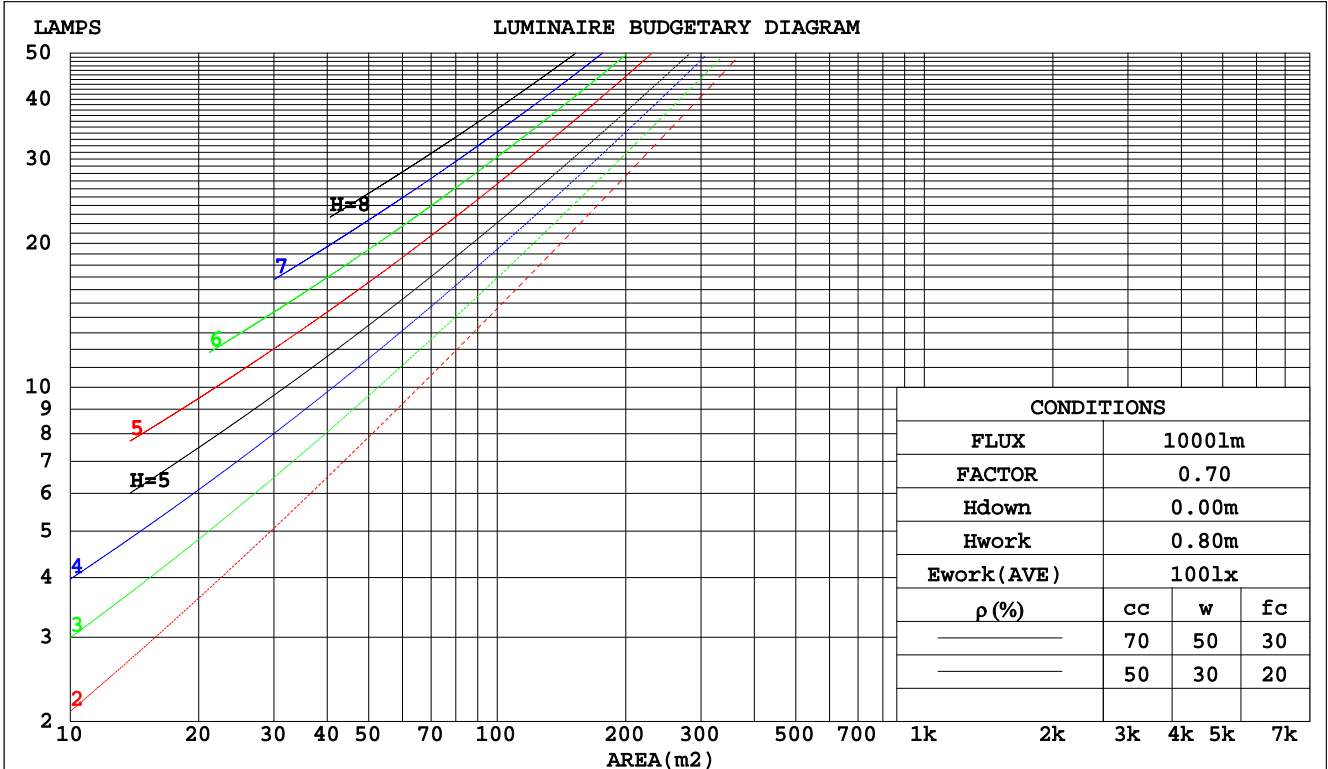
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:28.5DEG  
Operators:  
Test Date:

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V1.0.257  
Humidity:64%  
Test Distance:6.810m [K=0.8223]  
Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

NAME: X-Glo-UL-36	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.10	1.10	1.10	1.07	1.07	1.07	1.03	1.03	1.03	.98	.98	.98	.94	.94	.94	.92
1.0	.97	.93	.90	.95	.92	.89	.91	.88	.86	.88	.85	.83	.84	.82	.81	.79
2.0	.85	.79	.74	.83	.78	.73	.80	.76	.72	.77	.73	.70	.74	.71	.68	.67
3.0	.75	.68	.62	.74	.67	.62	.71	.65	.61	.68	.64	.60	.66	.62	.59	.57
4.0	.67	.59	.53	.66	.58	.53	.63	.57	.52	.61	.56	.51	.59	.54	.50	.49
5.0	.60	.52	.46	.59	.51	.46	.57	.50	.45	.55	.49	.45	.53	.48	.44	.42
6.0	.54	.46	.40	.53	.45	.40	.51	.45	.39	.50	.44	.39	.48	.43	.39	.37
7.0	.49	.41	.35	.48	.41	.35	.47	.40	.35	.45	.39	.35	.44	.39	.34	.33
8.0	.45	.37	.32	.44	.37	.31	.43	.36	.31	.42	.36	.31	.41	.35	.31	.29
9.0	.41	.33	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.37	.32	.28	.26
10.0	.38	.31	.26	.37	.30	.26	.36	.30	.26	.36	.30	.25	.35	.29	.25	.24



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:28.5DEG  
 Operators:  
 Test Date:

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V1.0.257  
 Humidity:64%  
 Test Distance:6.810m [K=0.8223]  
 Remarks:

WEC AND CCEC

NAME: X-Glo-UL-36	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.264	.150	.048	.257	.147	.047	.245	.141	.045	.234	.135	.043	.224	.130	.042	
2.0	.253	.139	.043	.248	.136	.042	.237	.132	.041	.227	.127	.040	.218	.123	.039	
3.0	.237	.126	.038	.232	.124	.037	.223	.121	.037	.214	.117	.036	.206	.114	.035	
4.0	.221	.115	.034	.216	.113	.033	.208	.110	.033	.200	.108	.032	.193	.105	.032	
5.0	.206	.105	.030	.202	.104	.030	.194	.101	.030	.187	.099	.029	.181	.097	.029	
6.0	.192	.096	.028	.188	.095	.027	.182	.093	.027	.175	.091	.027	.170	.089	.027	
7.0	.179	.089	.025	.176	.088	.025	.170	.086	.025	.165	.084	.025	.159	.083	.024	
8.0	.168	.082	.023	.165	.081	.023	.160	.080	.023	.155	.078	.023	.150	.077	.022	
9.0	.158	.076	.021	.155	.076	.021	.150	.074	.021	.146	.073	.021	.142	.072	.021	
10.0	.149	.071	.020	.146	.071	.020	.142	.070	.020	.138	.069	.019	.134	.068	.019	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.176	.176	.176	.150	.150	.150	.103	.103	.103	.059	.059	.059	.019	.019	.019	
1.0	.165	.144	.126	.141	.124	.108	.097	.085	.075	.056	.049	.044	.018	.016	.014	
2.0	.157	.122	.092	.134	.105	.080	.092	.073	.056	.053	.042	.033	.017	.014	.011	
3.0	.150	.105	.070	.128	.091	.061	.088	.063	.043	.051	.037	.025	.016	.012	.008	
4.0	.143	.093	.055	.122	.080	.048	.084	.056	.034	.049	.033	.020	.016	.011	.007	
5.0	.136	.083	.045	.117	.072	.039	.080	.050	.027	.047	.030	.016	.015	.010	.005	
6.0	.129	.076	.037	.111	.065	.032	.077	.046	.023	.045	.027	.014	.014	.009	.004	
7.0	.123	.069	.031	.106	.060	.027	.073	.042	.019	.043	.025	.011	.014	.008	.004	
8.0	.118	.064	.027	.101	.055	.024	.070	.039	.017	.041	.023	.010	.013	.008	.003	
9.0	.112	.059	.024	.097	.051	.021	.067	.036	.015	.039	.021	.009	.013	.007	.003	
10.0	.107	.055	.021	.092	.048	.018	.064	.034	.013	.037	.020	.008	.012	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:28.5DEG  
 Operators:  
 Test Date:

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V1.0.257  
 Humidity:64%  
 Test Distance:6.810m [K=0.8223]  
 Remarks:

Uncorrected UGR Table

NAME: X-Glo-UL-36		TYPE:					WEIGHT:				
DIM.:		SPEC.:					SERIAL No.:				
MFR.:		SUR.:					PROTECTION 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	14.1	15.6	14.4	15.8	16.0	14.0	15.5	14.3	15.7	15.9	
3H	15.3	16.6	15.6	16.9	17.1	15.0	16.4	15.3	16.6	16.8	
4H	15.6	16.9	16.0	17.2	17.4	15.3	16.6	15.7	16.9	17.1	
6H	15.9	17.1	16.2	17.3	17.6	15.5	16.7	15.8	17.0	17.3	
8H	15.9	17.1	16.3	17.4	17.6	15.5	16.7	15.9	17.0	17.3	
12H	15.9	17.1	16.3	17.4	17.7	15.5	16.6	15.9	16.9	17.2	
4H 2H	14.6	15.9	14.9	16.1	16.4	14.5	15.8	14.8	16.0	16.3	
3H	15.9	17.0	16.3	17.3	17.6	15.7	16.8	16.0	17.1	17.4	
4H	16.4	17.4	16.7	17.7	18.0	16.1	17.1	16.5	17.5	17.8	
6H	16.7	17.6	17.1	17.9	18.3	16.4	17.3	16.8	17.6	18.0	
8H	16.8	17.6	17.2	18.0	18.4	16.4	17.3	16.8	17.6	18.0	
12H	16.8	17.6	17.3	18.0	18.4	16.4	17.2	16.9	17.6	18.0	
8H 4H	16.5	17.3	16.9	17.7	18.1	16.3	17.1	16.7	17.5	17.9	
6H	16.9	17.6	17.4	18.0	18.4	16.6	17.3	17.1	17.7	18.2	
8H	17.1	17.7	17.5	18.1	18.5	16.8	17.4	17.2	17.8	18.2	
12H	17.2	17.7	17.7	18.1	18.6	16.8	17.3	17.3	17.8	18.3	
12H 4H	16.5	17.3	16.9	17.6	18.0	16.3	17.0	16.7	17.4	17.8	
6H	16.9	17.5	17.4	18.0	18.4	16.7	17.3	17.1	17.7	18.1	
8H	17.1	17.6	17.6	18.1	18.5	16.8	17.3	17.3	17.8	18.3	
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.4					
2.0H	+ 0.4 / - 0.3					+ 0.4 / - 0.4					

CIE Pub.117 Corrected 600.0 lm Total Lamp Luminous Flux. (8log(F/F0) = -1.8)

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 28.5DEG  
Operators:  
Test Date:

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V1.0.257  
Humidity: 64%  
Test Distance: 6.810m [K=0.8223]  
Remarks:

UTILIZATION FACTORS TABLE

NAME: X-Glo-UL-36	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

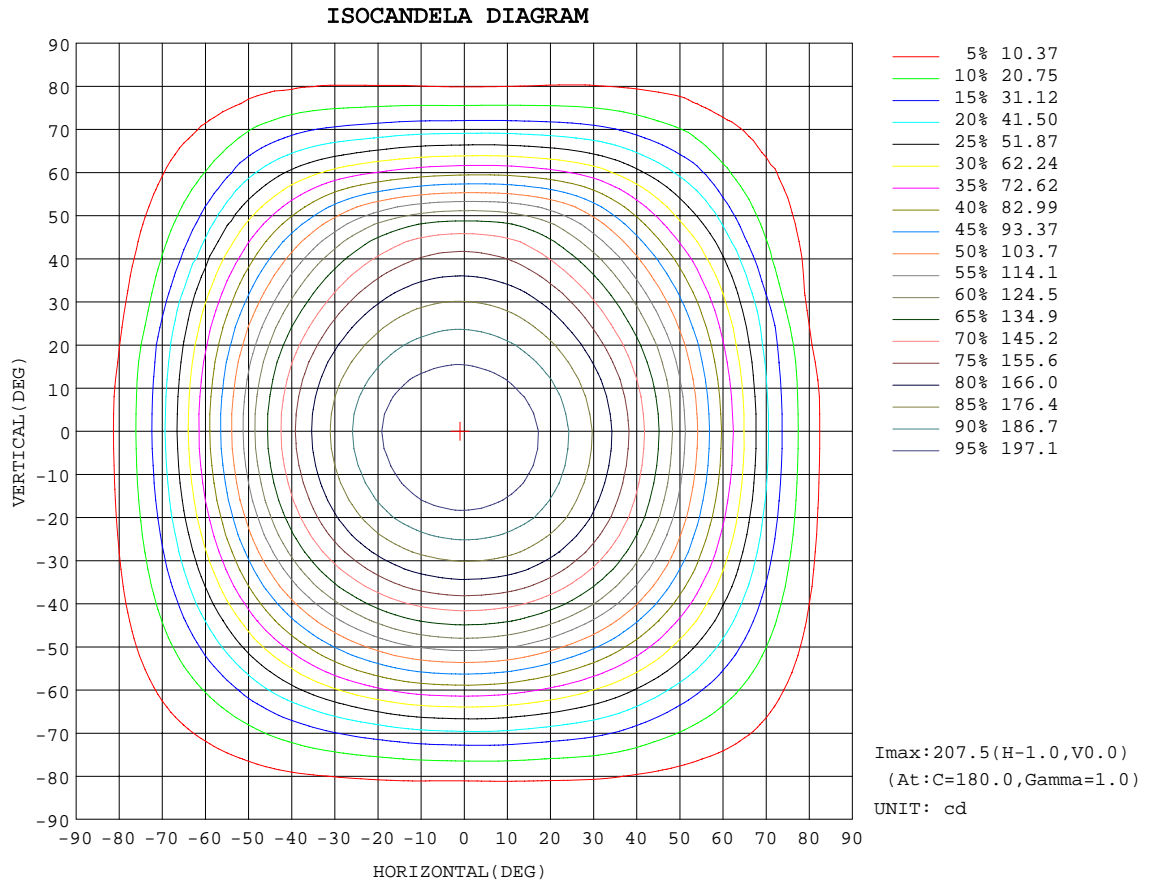
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	55	44	38	54	44	38	53	43	38	32
0.80	64	54	47	63	53	47	62	53	47	40
1.00	72	62	56	71	62	56	69	63	55	49
1.25	79	69	63	77	69	63	75	67	62	56
1.50	83	75	68	82	74	68	79	72	67	60
2.00	89	82	76	88	81	76	85	79	74	67
2.50	93	86	81	91	85	80	87	82	78	71
3.00	96	90	85	94	88	84	90	86	82	74
4.00	99	94	90	97	93	89	93	90	87	79
5.00	101	97	94	99	95	92	95	92	89	81
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:28.5DEG  
Operators:  
Test Date:

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V1.0.257  
Humidity:64%  
Test Distance:6.810m [K=0.8223]  
Remarks:

**ISOCANDELA DIAGRAM**

NAME: X-Glo-UL-36	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

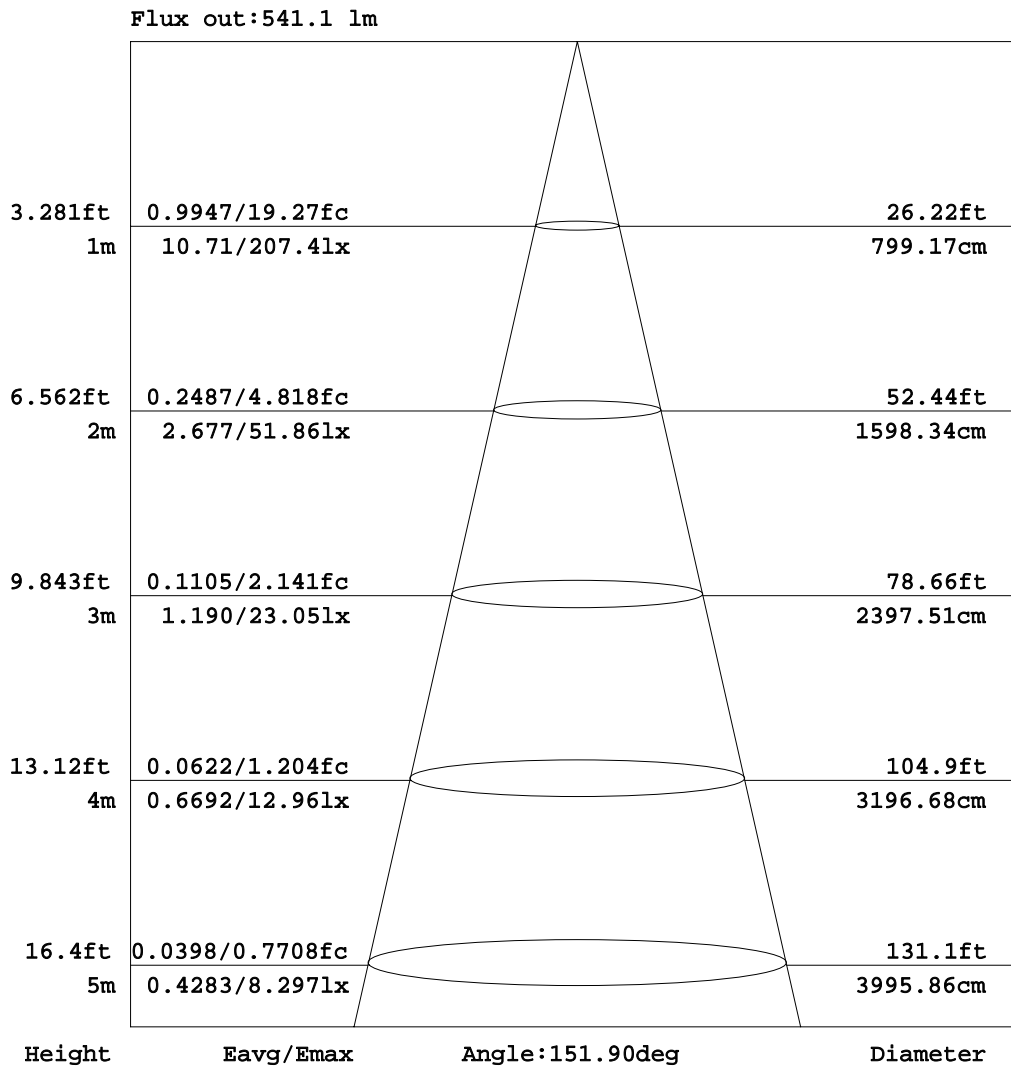


C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 28.5DEG  
Operators:  
Test Date:

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V1.0.257  
Humidity: 64%  
Test Distance: 6.810m [K=0.8223]  
Remarks:

**AAI Figure**

NAME: X-Glo-UL-36	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



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

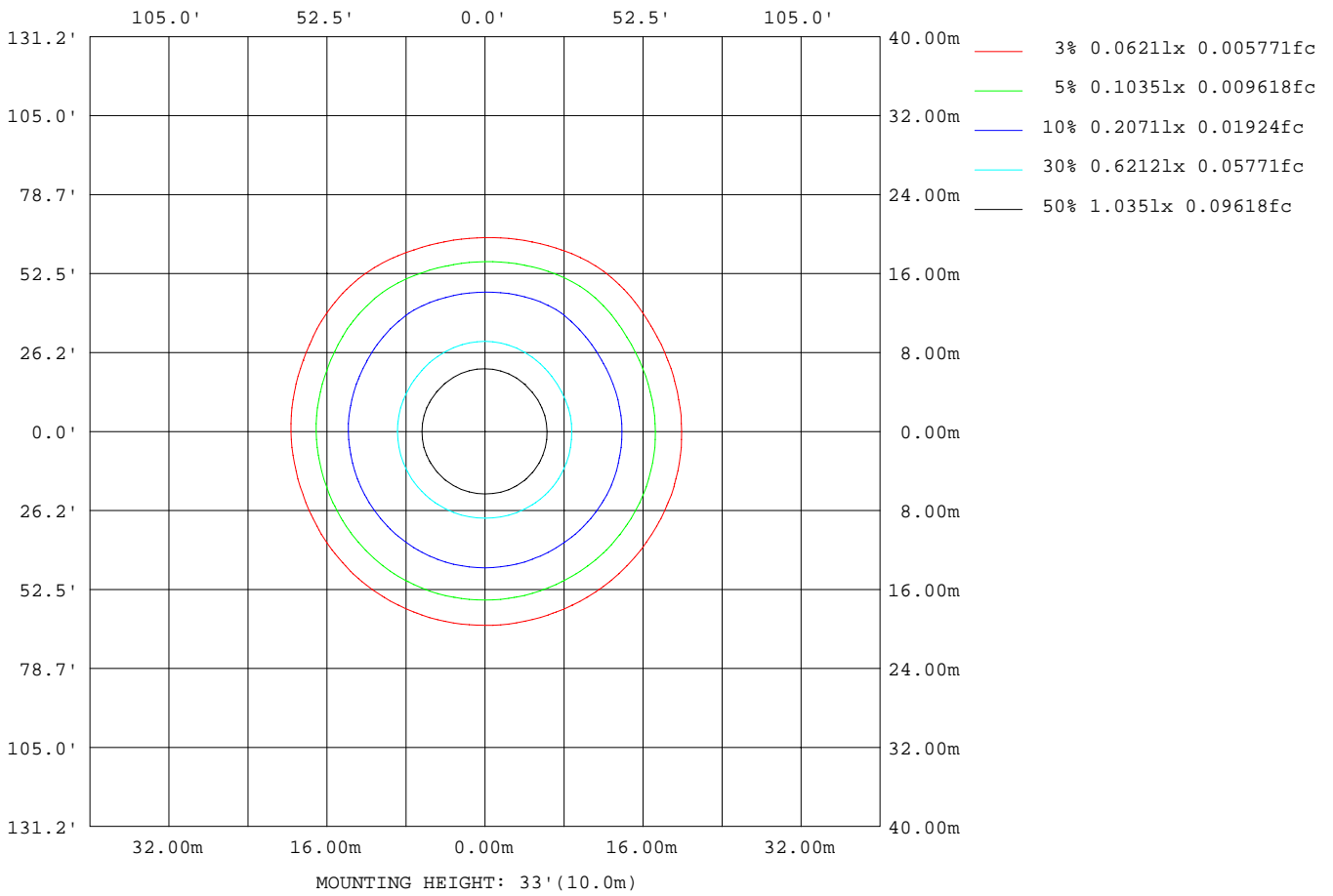
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:28.5DEG  
Operators:  
Test Date:

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V1.0.257  
Humidity:64%  
Test Distance:6.810m [K=0.8223]  
Remarks:



ISOLUX DIAGRAM

NAME: X-Glo-UL-36	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 28.5DEG  
 Operators:  
 Test Date:

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V1.0.257  
 Humidity: 64%  
 Test Distance: 6.810m [K=0.8223]  
 Remarks:

**Average Luminance Table (CIBSE)**

NAME: X-Glo-UL-36	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Parameter description for average Luminance	Symbol	Value	Unit
Luminance in Azimuth Plane	Bc	refer Table 2	cd/sq.m.
Intensity at angle Gamma in given azimuth plane	I	from data	cd/klm
Number of lamps	N	1	
Output of each lamp(initial lumens as specified)	F	600	lm
Multiplying factor	K	1	
Luminous area in horizontal plane used in calculations	A	0.12	sq.m.
Angle to the downward vertical from light centre	Gamma	from data	deg

Table 1. Calculation parameters for determination of CIBSE LG3:1996 Average Luminance

G deg	C plane (deg)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
55	1459	1460	1464	1465	1455	1447	1435	1431	1433	1432	1435	1438	1433	1427	1421	1422	1423	1431	1443
60	1360	1360	1361	1350	1341	1332	1317	1310	1311	1309	1314	1317	1317	1310	1299	1289	1286	1297	1311
65	1217	1229	1224	1206	1199	1189	1178	1156	1152	1147	1150	1150	1154	1155	1141	1124	1114	1128	1148
70	1054	1067	1058	1042	1025	1032	1019	991	978	963	963	963	963	965	963	932	923	932	958
75	877	882	869	853	848	861	856	818	808	794	792	780	785	782	765	740	732	742	762
80	712	710	690	681	683	697	686	637	607	584	598	615	633	639	611	578	573	585	606
85	637	599	598	586	592	588	514	378	299	264	299	377	502	576	527	526	501	515	524

Table 2. Average Luminance(cd/sq.m.) for defined C plane,Gamma angle

CIBSE Category	Gamma (deg)	Average Luminance		Patch Luminance	
		maximum calculated	specified maximum	maximum measured	specified maximum
Category 1	55 to 90	1465	200	---	500
Category 2	65 to 90	1229	200	---	500
Category 3	75 to 90	882	200	---	500

Table 3. Tabulation of Average and Patch Luminance(cd/sq.m.) for defined CIBSE categories

No match

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:28.5DEG  
Operators:  
Test Date:

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V1.0.257  
Humidity:64%  
Test Distance:6.810m [K=0.8223]  
Remarks:







