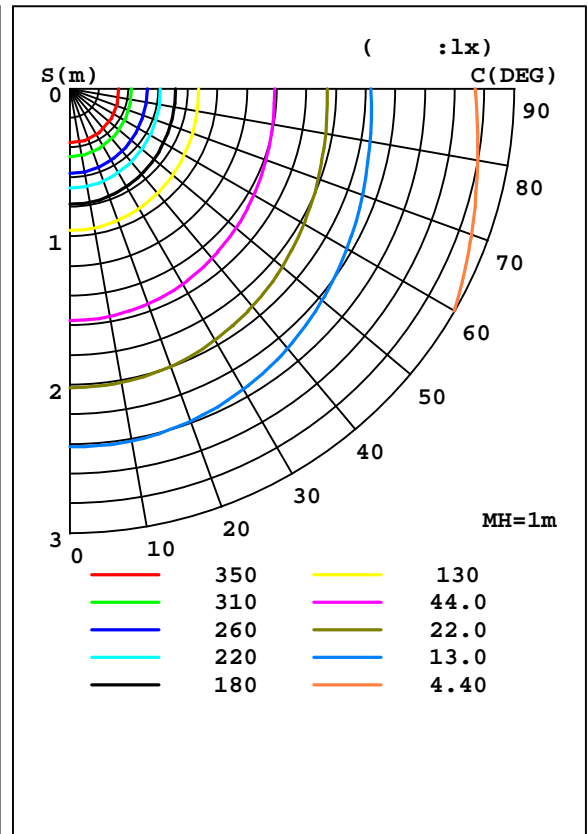
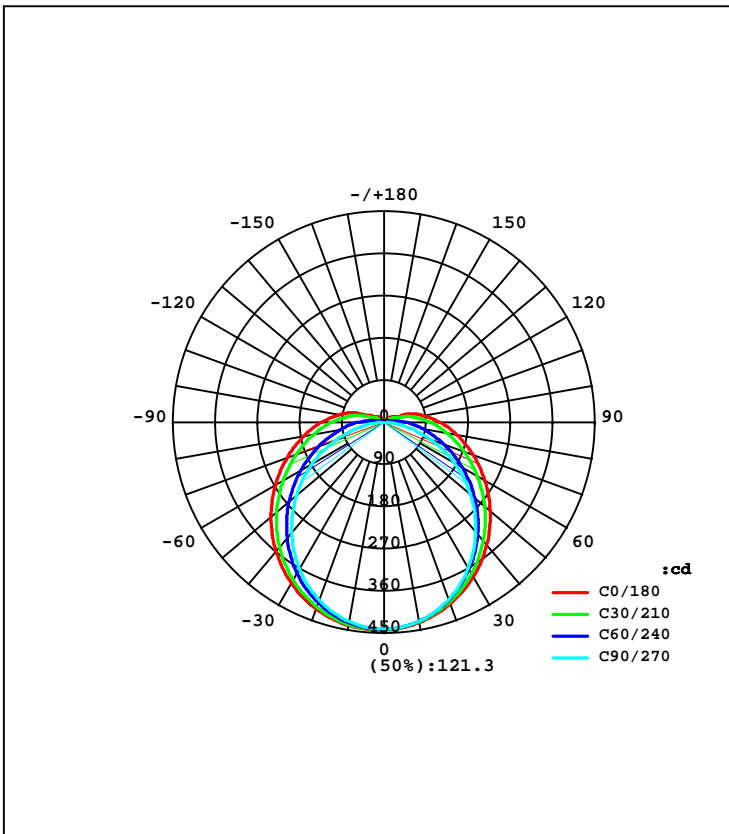


: U:220.2V I:0.0710A P:15.10W PF:0.9610		:1587.1x1 lm	
:	:	:	:
:	:1.2m	:	:
:	:	:	:

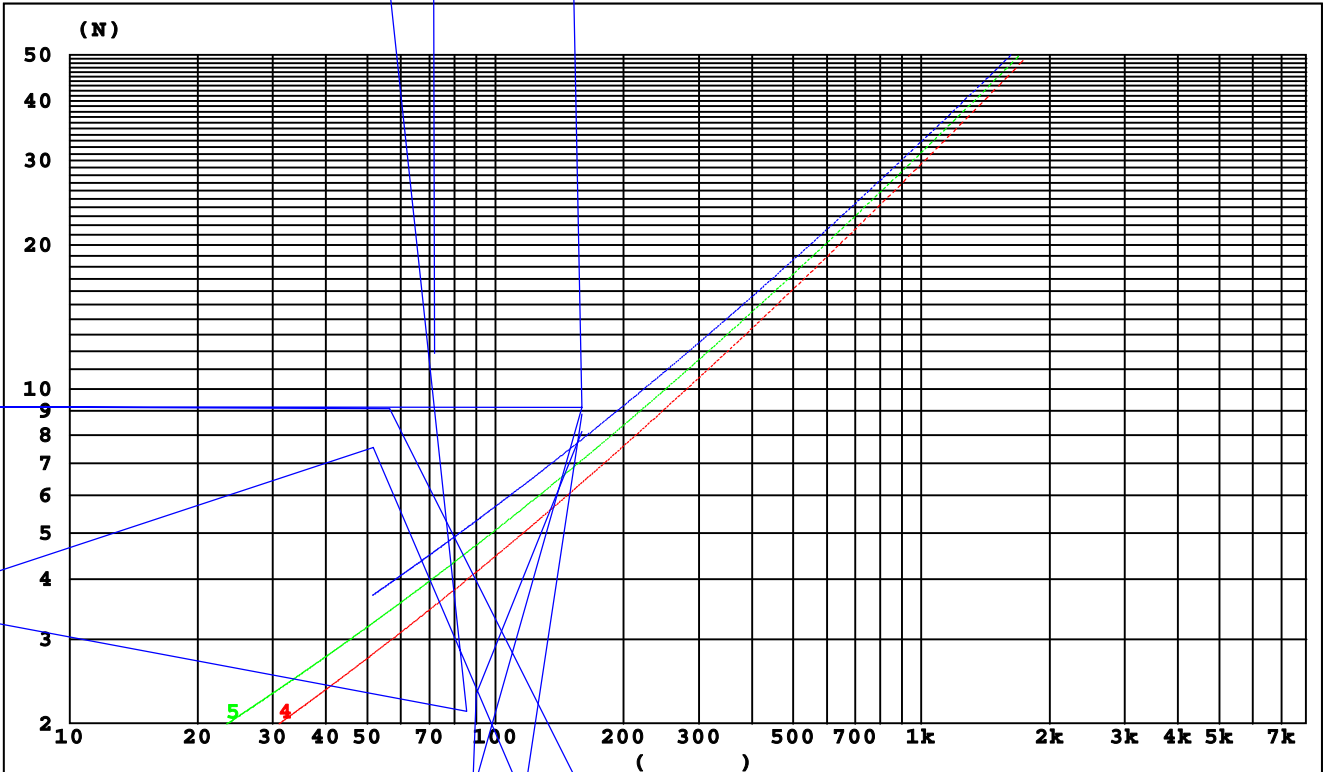
		: 105.10 lm/W			
BT88F-15-12CA	(cd)	443.7	S/MH(C0/180)	1.33	
(W)	16	(%)	100.0	S/MH(C90/270)	1.23
(V)	220	(lm)	1587.1	UP, DN(C0-180)	4.4, 46.1
(lm)	1587.1	CIE		UP, DN(C180-360)	4.2, 45.3
()	1	(%)	8.6	CIBSE SHR NOM	1.25
(V)	220.2	(%)	91.4	CIBSE SHR MAX	1.35



C : 0 - 360 : 0 - 180
 C : 30.0 : 1.0
 : (EVERFINE)GO-2000B_V1 V1.0.256
 :25.3 :65.0%
 : :10.000 [K=1.0000]
 :2015-05-28 : 6000K

: U:220.2V I:0.0710A P:15.10W PF:0.9610			:1587.1x1 lm		
:	:	:	:	:	:
:	:	:1.2m	:	:	:
:	:	:	:	:	:

	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	0
0.0	1.17	1.17	1.17	1.13	1.13	1.13	1.06	1.06	1.06	.00	.00	.00	.94	.94	.94	.91
1.0	.99	.94	.89	.96	.91	.87	.90	.86	.82	.84	.81	.78	.79	.77	.74	.72
2.0	.85	.77	.71	.82	.75	.69	.77	.71	.66	.73	.68	.64	.68	.64	.61	.58
3.0	.74	.65	.58	.72	.64	.57	.67	.61	.55	.63	.58	.53	.60	.55	.51	.48
4.0	.65	.56	.49	.63	.55	.48	.60	.52	.46	.56	.50	.45	.53	.48	.43	.41
5.0	.58	.49	.42	.56	.48	.41	.53	.46	.40	.50	.44	.38	.48	.42	.37	.35
6.0	.52	.43	.36	.51	.42	.36	.48	.40	.35	.45	.39	.34	.43	.37	.33	.30
7.0	.47	.38	.32	.46	.37	.31	.44	.36	.30	.41	.35	.30	.39	.33	.29	.27
8.0	.43	.34	.28	.42	.34	.28	.40	.32	.27	.38	.31	.26	.36	.30	.26	.24
9.0	.39	.31	.25	.38	.30	.25	.37	.29	.24	.35	.28	.24	.33	.27	.23	.21
10.0	.36	.28	.23	.35	.28	.23	.34	.27	.22	.32	.26	.22	.31	.25	.21	.19



:

	C0	C45	C90	C135	C180	C225	C270	C315	(°)			%
10	439.9	436.2	431.4	429.9	434.0	431.5	430.8	434.2	0- 10	41.74	41.74	2.63
20	423.9	415.0	404.1	404.9	412.6	406.1	402.9	413.0	10- 20	119.5	161.3	10.16
30	396.1	380.3	361.4	367.3	380.8	368.0	359.7	378.3	20- 30	181.4	342.6	21.59
40	359.1	335.0	307.4	320.4	341.2	320.4	304.6	333.0	30- 40	220.1	562.8	35.46
50	315.3	282.6	244.9	267.4	296.1	266.9	241.4	280.9	40- 50	232.8	795.6	50.13
60	267.8	227.2	177.2	212.5	248.4	211.3	173.1	225.8	50- 60	220.6	1016	64.03
70	220.2	173.1	107.7	159.5	201.8	157.7	103.8	171.7	60- 70	188.7	1205	75.92
80	175.0	124.4	40.50	112.7	158.6	110.9	36.25	123.6	70- 80	145.0	1350	85.05
90	133.9	84.33	0.4864	75.04	119.9	73.72	0.1954	84.19	80- 90	100.4	1450	91.38
100	96.90	51.80	0.3181	45.18	85.76	43.37	0.2142	51.00	90-100	65.82	1516	95.53
110	59.24	22.68	0.2555	19.17	52.23	19.00	0.2499	22.66	100-110	37.34	1553	97.88
120	29.19	11.96	0.2828	11.96	25.17	11.95	0.2911	11.60	110-120	16.56	1570	98.93
130	18.88	5.880	0.2995	7.475	16.15	7.500	0.3324	6.496	120-130	8.821	1579	99.48
140	12.31	3.290	0.3544	4.442	9.331	4.483	0.3873	3.961	130-140	4.610	1583	99.77
150	7.047	2.218	0.4313	2.460	4.998	2.499	0.4450	2.603	140-150	2.262	1586	99.92
160	3.547	1.523	0.4945	1.245	2.124	1.259	0.5109	1.687	150-160	0.9672	1587	99.98
170	0.9789	1.015	0.5302	0.5946	0.6587	0.5963	0.5384	1.065	160-170	0.3195	1587	100.00
180	0.4450	0.5178	0.5329	0.5357	0.4532	0.5109	0.5274	0.5398	170-180	0.0611	1587	100.00
:°	:cd									:lm		

C : 0 - 360 : 0 - 180
C : 30.0 : 1.0
: (EVERFINE)GO-2000B_V1 V1.0.256
:25.3 :65.0%
: :10.000 [K=1.0000]
:2015-05-28 : 6000K

: U:220.2V I:0.0710A P:15.10W PF:0.9610			:1587.1x1 lm		
:	:	:	:	:	:
:	:	:1.2m	:	:	:
:	:	:	:	:	:

	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
	20%			20%			20%			20%			20%			0
0.0																
1.0	.369	.210	.066	.359	.205	.065	.340	.195	.062	.324	.187	.060	.308	.178	.058	
2.0	.325	.178	.055	.316	.174	.054	.299	.166	.052	.284	.159	.050	.270	.153	.048	
3.0	.291	.155	.046	.283	.152	.046	.268	.145	.044	.255	.140	.043	.242	.134	.041	
4.0	.263	.137	.040	.256	.134	.040	.243	.129	.038	.231	.124	.037	.219	.119	.036	
5.0	.240	.122	.035	.234	.120	.035	.222	.116	.034	.211	.111	.033	.200	.107	.032	
6.0	.221	.111	.032	.215	.109	.031	.204	.105	.030	.194	.101	.030	.185	.097	.029	
7.0	.204	.101	.029	.199	.099	.028	.189	.096	.028	.180	.092	.027	.171	.089	.026	
8.0	.190	.093	.026	.185	.091	.026	.176	.088	.025	.168	.085	.025	.160	.082	.024	
9.0	.177	.086	.024	.173	.084	.024	.165	.081	.023	.157	.079	.023	.150	.076	.022	
10.0	.166	.080	.022	.162	.078	.022	.155	.076	.021	.147	.073	.021	.141	.071	.020	

	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
	20%			20%			20%			20%			20%			0
0.0	.256	.256	.256	.219	.219	.219	.149	.149	.149	.086	.086	.086	.027	.027	.027	
1.0	.251	.222	.196	.214	.190	.169	.147	.131	.117	.084	.076	.068	.027	.024	.022	
2.0	.243	.198	.161	.208	.171	.139	.143	.118	.097	.082	.069	.057	.026	.022	.019	
3.0	.236	.181	.138	.202	.157	.120	.139	.109	.084	.080	.064	.050	.026	.021	.016	
4.0	.228	.169	.123	.195	.146	.107	.134	.102	.076	.078	.059	.045	.025	.019	.015	
5.0	.220	.159	.113	.189	.137	.098	.130	.096	.070	.075	.056	.041	.024	.018	.014	
6.0	.212	.150	.106	.183	.130	.092	.126	.091	.065	.073	.054	.039	.024	.018	.013	
7.0	.205	.144	.100	.177	.124	.087	.122	.087	.062	.071	.051	.037	.023	.017	.012	
8.0	.199	.138	.096	.171	.120	.084	.118	.084	.060	.069	.050	.035	.022	.016	.012	
9.0	.192	.133	.093	.166	.115	.081	.115	.081	.058	.067	.048	.034	.022	.016	.011	
10.0	.186	.129	.090	.161	.112	.079	.112	.079	.056	.065	.047	.033	.021	.015	.011	

C : 0 - 360 : 0 - 180
C : 30.0 : 1.0
: (EVERFINE)GO-2000B_V1 V1.0.256
:25.3 :65.0%
: :10.000 [K=1.0000]
:2015-05-28 : 6000K

UGR(Unified Glare Rating)

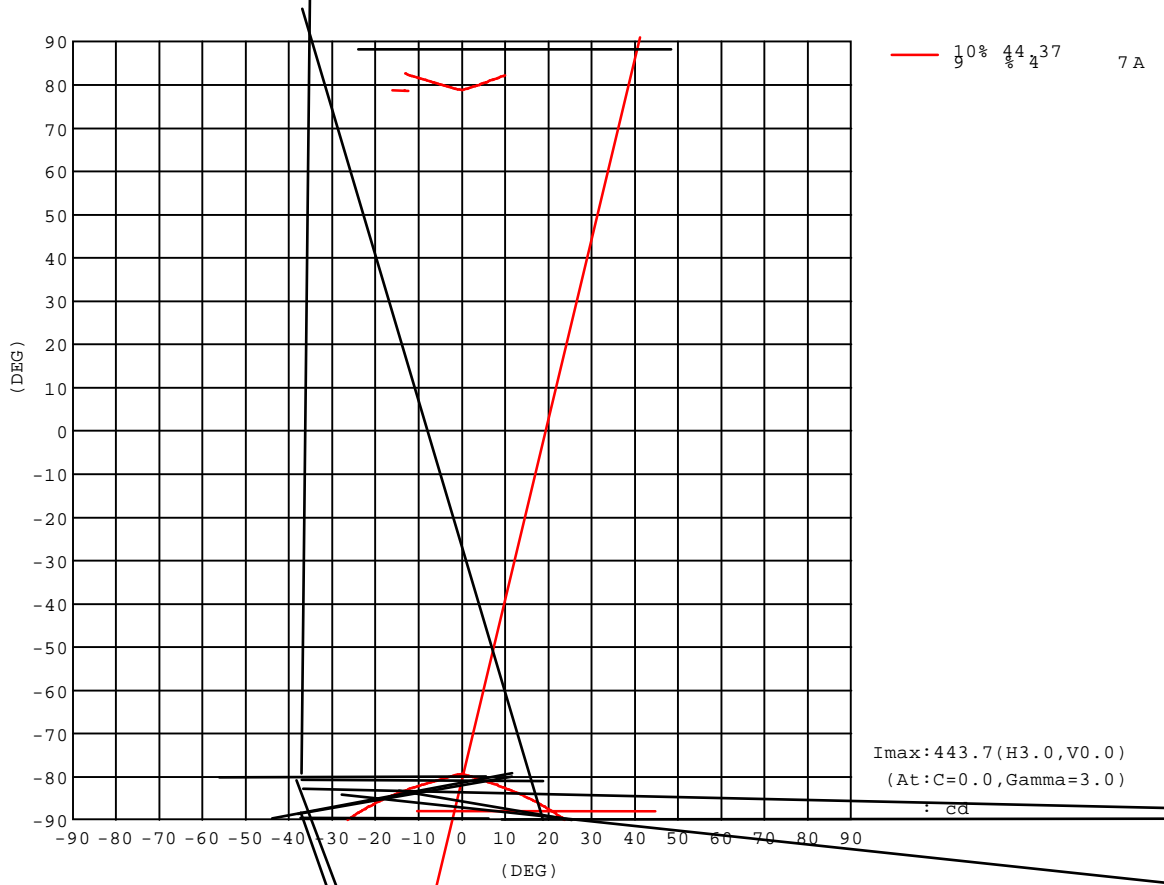
: U:220.2V I:0.0710A P:15.10W PF:0.9610		:1587.1x1 lm	
:	:	:	:
:	:1.2m	:	:
:	:	:	:

	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	(Viewed crosswise)					(Viewed endwise)				
x = 2H y = 2H	11.4	12.8	11.7	13.2	13.6	9.7	11.2	10.1	11.6	12.0
3H	13.7	15.1	14.2	15.5	15.9	11.2	12.6	11.7	13.0	13.4
4H	15.1	16.4	15.5	16.8	17.2	11.8	13.1	12.3	13.5	14.0
6H	16.5	17.7	16.9	18.1	18.6	12.2	13.5	12.7	13.9	14.4
8H	17.3	18.5	17.7	18.9	19.4	12.3	13.5	12.8	14.0	14.4
12H	18.2	19.3	18.7	19.8	20.3	12.4	13.5	12.9	14.0	14.5
4H 2H	11.9	13.2	12.4	13.6	14.1	10.7	12.0	11.2	12.4	12.9
3H	14.6	15.7	15.0	16.2	16.7	12.5	13.6	12.9	14.1	14.5
4H	16.1	17.1	16.6	17.6	18.1	13.2	14.3	13.7	14.8	15.3
6H	17.7	18.6	18.2	19.2	19.7	13.8	14.8	14.4	15.3	15.8
8H	18.6	19.5	19.2	20.0	20.6	14.0	14.9	14.6	15.4	16.0
12H	19.7	20.5	20.2	21.0	21.6	14.2	15.0	14.7	15.5	16.1
8H 4H	16.4	17.3	16.9	17.8	18.4	14.1	15.0	14.6	15.5	16.1
6H	18.3	19.1	18.9	19.6	20.2	15.0	15.8	15.6	16.3	16.9
8H	19.5	20.1	20.0	20.7	21.3	15.4	16.1	16.0	16.7	17.3
12H	20.8	21.3	21.4	21.9	22.6	15.7	16.3	16.4	16.9	17.6
12H 4H	16.4	17.2	17.0	17.8	18.4	14.3	15.2	14.9	15.7	16.3
6H	18.4	19.1	19.0	19.7	20.3	15.5	16.1	16.1	16.7	17.4
8H	19.7	20.3	20.3	20.9	21.5	16.0	16.6	16.6	17.2	17.9
UGR :										
s = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				

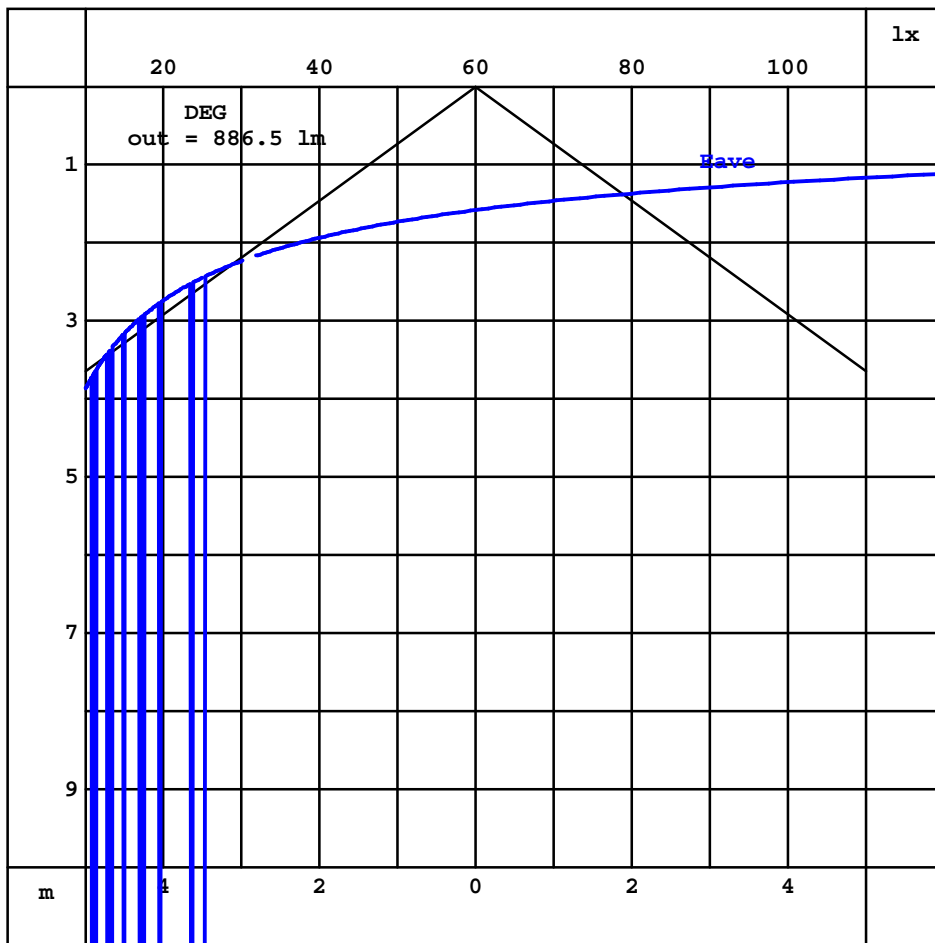
CIE Pub.117 , 1587lm (8log(F/F0) = 1.6).

C	: 0 - 360	: 0 - 180	
C	: 30.0	: 1.0	
	: 25.3	: (EVERFINE)GO-2000B_V1	V1.0.256
	: 2015-05-28	: 65.0%	
		: 10.000 [K=1.0000]	
		: 6000K	

: U:220.2V I:0.0710A P:15.10W PF:0.9610		:1587.1x1 lm	
:		:	:
:		:1.2m	:
:		:	:



: U:220.2V I:0.0710A P:15.10W PF:0.9610		:1587.1x1 lm
:	:	:
:	:1.2m	:
:	:	:



:

C : 0 - 360 : 0 - 180
 C : 30.0 : 1.0
 : (EVERFINE)GO-2000B_V1 IX 0.256
 :25.3 :65.0%
 : :10.000 [K=1.000]
 :2015-05-28 : 6000K

:	:	:
:		

(CIBSE)

: U:220.2V I:0.0710A P:15.10W PF:0.9610	:1587.1x1 lm
:	:
:	:1.2m
:	:

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	1587.1	lm
Multiplying factor	K	1	
Luminous area in horizontal plane used in calculations	A	0.74	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	687	680	666	647	618	586	555	530	510	498	501	513	530	553	577	601	620	635	642
60	724	714	698	673	636	595	555	521	494	479	485	502	527	558	590	621	646	663	671
65	780	768	747	716	668	615	562	514	476	454	466	493	530	572	616	656	687	709	719
70	870	857	829	788	724	652	580	512	458	425	445	487	543	602	662	717	758	785	797
75	1030	1012	975	917	829	730	626	519	431	379	416	489	581	668	753	830	885	923	938
80	1362	1336	1279	1191	1058	906	745	561	408	315	388	521	684	823	954	1070	1155	1211	1234
85	2385	2336	2224	2049	1785	1478	1149	756	426	224	391	686	1043	1330	1596	1827	1995	2105	2149

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	2385	500
Category 2	65 to 90	2385	500		1500
Category 3	75 to 90	2385	500		1500

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

C : 0 - 360 : 0 - 180
 C : 30.0 : 1.0
 : : (EVERFINE)GO-2000B_V1 V1.0.256
 :25.3 :65.0%
 : :10.000 [K=1.0000]
 :2015-05-28 : 6000K

: U:220.2V I:0.0710A P:15.10W PF:0.9610		:1587.1x1 lm	
:	:	:	:
:	:1.2m	:	:
:	:	:	:

--1

: cd

C (DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	443	442	441	441	440	440	443	442	441	441	440	440							
5	443	442	440	438	437	437	440	439	438	438	439	439							
10	440	438	434	431	430	430	434	432	431	431	433	435							
15	433	431	424	420	419	420	425	422	419	419	423	428							
20	424	420	410	404	403	407	413	408	404	403	409	417							
25	411	405	393	385	385	390	398	392	385	383	391	403							
30	396	388	372	361	363	372	381	373	363	360	370	386							
35	379	369	348	336	339	351	362	352	338	333	347	367							
40	359	348	322	307	312	329	341	330	311	305	321	345							
45	338	324	295	277	284	305	319	306	283	274	293	322							
50	315	300	265	245	255	280	296	280	253	241	264	298							
55	292	275	236	211	225	255	272	255	223	208	234	273							
60	268	249	205	177	195	230	248	230	193	173	204	248							
65	244	224	176	142	166	205	225	205	163	138	174	223							
70	220	199	147	108	138	182	202	181	134	104	145	198							
75	197	176	120	72.5	111	159	180	158	108	67.8	118	175							
80	175	153	95.7	40.5	87.9	137	159	137	84.7	36.2	94.4	153							
85	154	132	74.1	14.4	67.3	118	139	118	64.6	11.2	73.4	132							
90	134	113	56.1	0.49	50.4	99.7	120	99.4	48.0	0.20	55.7	113							
95	115	94.4	39.8	0.27	35.3	83.1	103	82.7	33.2	0.19	39.7	94.7							
100	96.9	77.4	26.2	0.32	22.9	67.4	85.8	66.8	19.9	0.21	24.3	77.7							
105	80.8	61.9	13.0	0.23	11.3	53.5	70.9	52.8	11.4	0.23	13.2	58.2							
110	59.2	36.2	9.15	0.26	8.94	29.4	52.2	29.1	8.88	0.25	9.73	35.6							
115	35.7	25.7	6.10	0.24	7.07	22.8	30.7	23.0	6.93	0.27	6.78	27.0							
120	29.2	19.7	4.22	0.28	5.51	18.4	25.2	18.5	5.41	0.29	4.82	18.4							
125	23.4	13.3	3.35	0.29	4.34	14.7	20.3	14.8	4.26	0.31	3.91	13.8							
130	18.9	9.02	2.74	0.30	3.41	11.5	16.1	11.6	3.37	0.33	3.28	9.71							
135	15.4	6.04	2.24	0.32	2.70	8.92	12.5	9.01	2.68	0.36	2.73	7.09							
140	12.3	4.73	1.86	0.35	2.12	6.76	9.33	6.86	2.11	0.39	2.25	5.67							
145	9.41	3.65	1.71	0.40	1.67	5.02	6.92	5.09	1.65	0.41	2.01	4.41							
150	7.05	2.79	1.65	0.43	1.30	3.62	5.00	3.70	1.30	0.45	1.84	3.36							
155	5.10	2.08	1.51	0.46	1.02	2.51	3.39	2.57	1.01	0.48	1.63	2.53							
160	3.55	1.72	1.32	0.49	0.80	1.69	2.12	1.73	0.79	0.51	1.40	1.97							
165	1.54	1.47	1.13	0.52	0.62	1.10	1.05	1.14	0.62	0.53	1.18	1.59							
170	0.98	1.14	0.89	0.53	0.47	0.72	0.66	0.72	0.48	0.54	0.91	1.22							
175	0.61	0.79	0.69	0.53	0.43	0.45	0.44	0.44	0.42	0.54	0.71	0.85							
180	0.45	0.51	0.52	0.53	0.53	0.54	0.45	0.50	0.52	0.53	0.54	0.54							

C : 0 - 360 : 0 - 180
C : 30.0 : 1.0
: (EVERFINE)GO-2000B_V1 V1.0.256
:25.3 :65.0%
: :10.000 [K=1.0000]
:2015-05-28 : 6000K