

LED Downlight CATO Series CS8R-20S-830



Light Output Ratio:	100.0%	
Luminaire Power:	21.5 W	
SHR Nominal:	1.00	Calculated using the TM5
SHR Maximum:	1.10	fine grid method.

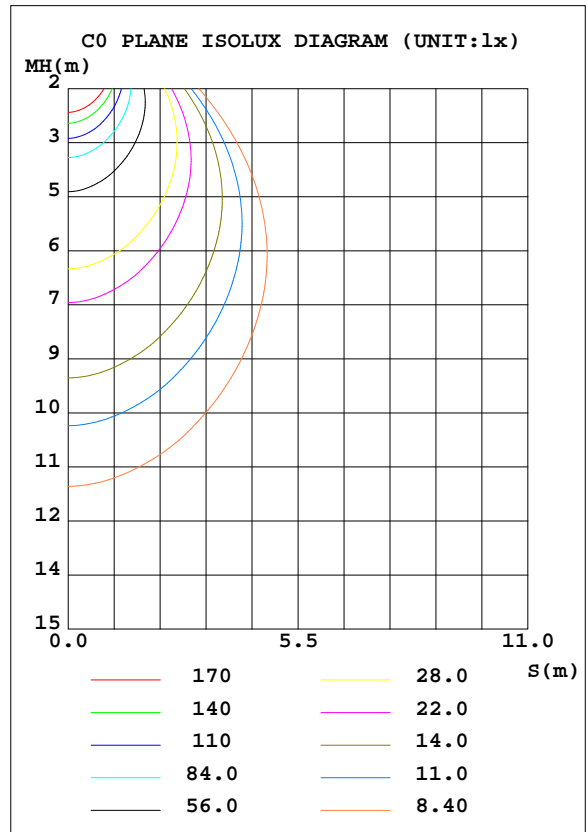
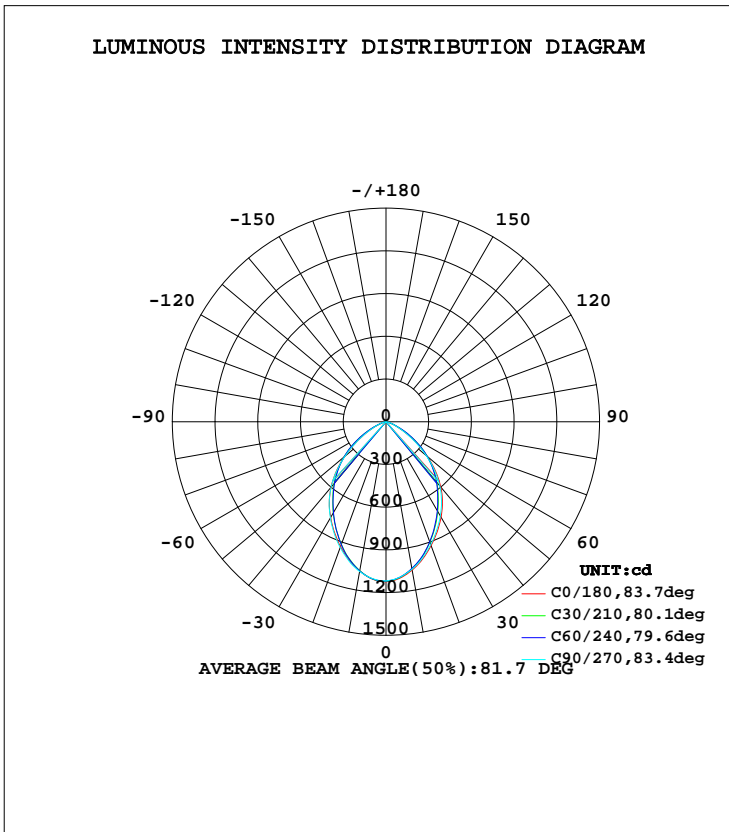
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Cao Chengpei
 Test Date: 2014-08-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity: 53.0%
 Test Distance: 5.780m [K=1.0000]
 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.3V I:0.1017A P:21.50W PF:0.9593 Lamp Flux:1927.97x1 lm		
NAME: CS8R-20S-830	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L230mm*W230mm*H76mm	
MFR.: E-LITE LIGHTING CO.,LTD.		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 89.66 lm/W			
MODEL	SAMSUNG-3000K	I _{max} (cd)	1124	S/MH(C0/180)	1.06
NOMINAL POWER(W)	22	LOR(%)	100.0	S/MH(C90/270)	1.07
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1928.0	η UP, DN(C0-180)	0.0, 49.7
NOMINAL FLUX(lm)	1927.97	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 50.3
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	1.10



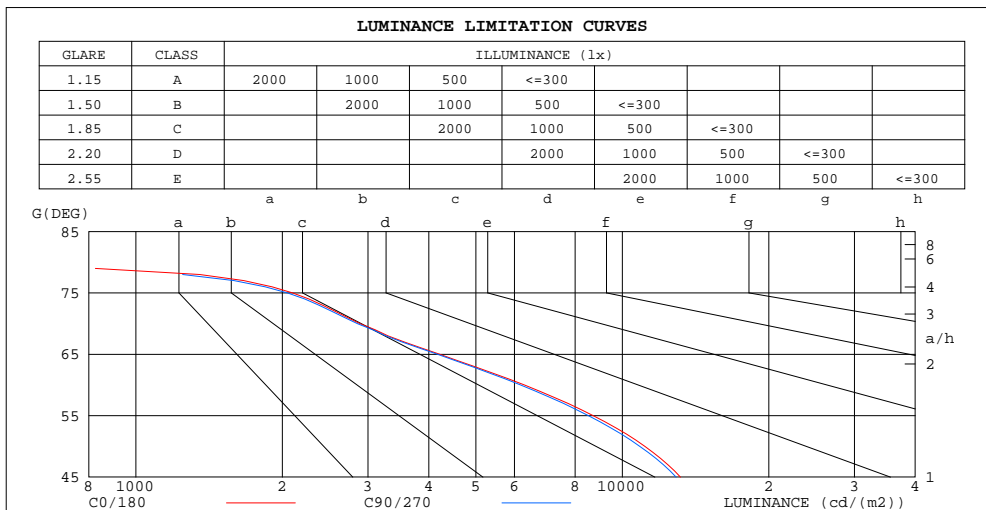
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	1058	1047	1052	1048	1065	1060	1068	1053	0- 10	103.6	103.6	5.38,5.38
20	926.0	898.1	918.7	899.6	933.7	914.4	940.0	906.7	10- 20	278.3	382.0	19.8,19.8
30	773.6	714.6	762.4	713.8	776.8	725.3	781.6	722.8	20- 30	381.8	763.8	39.6,39.6
40	598.4	545.3	587.4	543.6	601.2	552.7	601.0	552.1	30- 40	410.9	1175	60.9,60.9
50	378.3	389.3	369.5	387.3	379.4	393.2	376.1	393.7	40- 50	367.2	1542	80,80
60	166.4	209.6	163.4	206.6	164.8	208.6	165.4	210.0	50- 60	248.0	1790	92.8,92.8
70	52.27	57.41	51.61	55.23	50.42	55.87	51.27	57.75	60- 70	106.3	1896	98.4,98.4
80	2.954	7.739	3.096	7.376	2.890	7.560	3.104	7.881	70- 80	28.11	1924	99.8,99.8
90	0.1435	0.1331	0.1269	0.1352	0.1061	0.2392	0.5553	0.5449	80- 90	3.613	1928	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		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	599	633
80	322	337
75	2100	2049
70	2889	2853
65	4210	4165
60	6289	6178
55	8715	8515
50	11126	10865
45	13169	12903

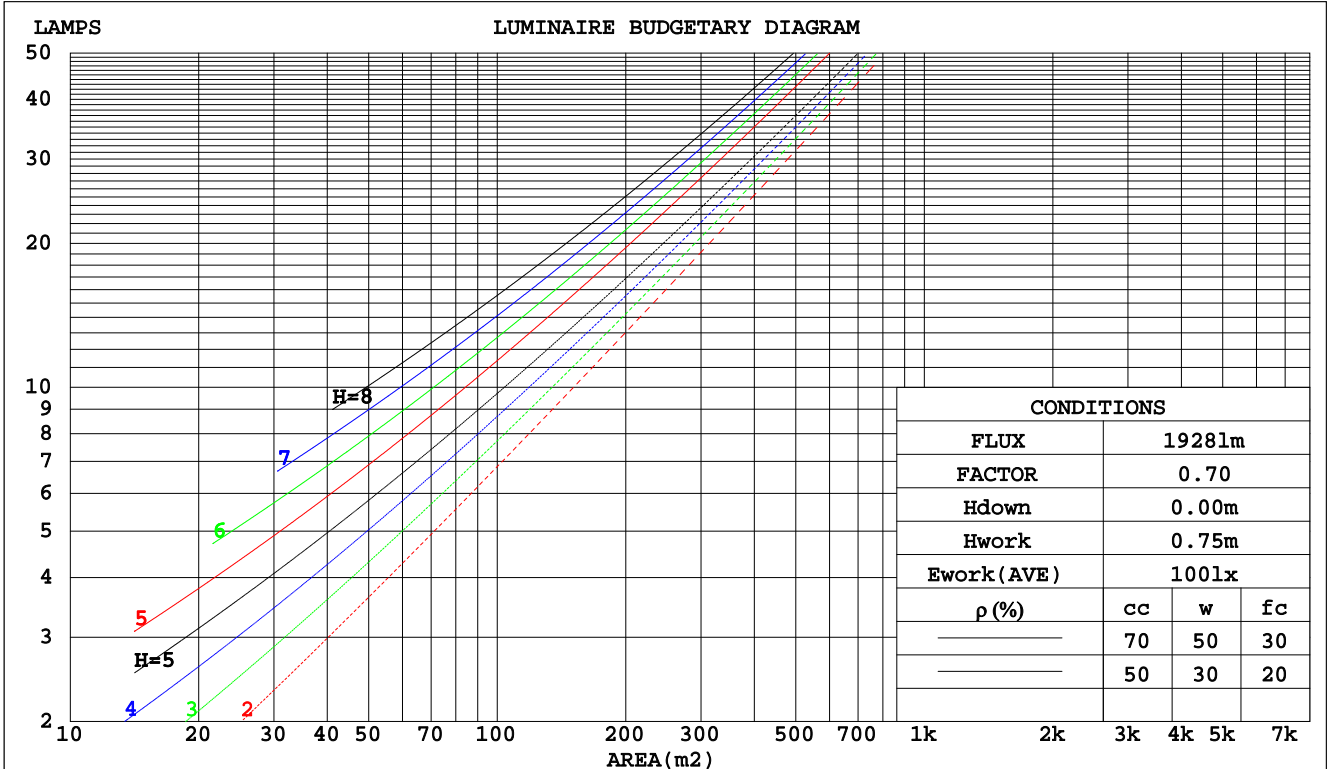
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 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.3V I:0.1017A P:21.50W PF:0.9593 Lamp Flux:1927.97x1 lm		
NAME: CS8R-20S-830	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L230mm*W230mm*H76mm	
MFR.: E-LITE LIGHTING CO.,LTD.		

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																
pfc																
RCR	RCR:Room Cavity Ratio															
	Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.08	1.04	1.01	1.05	1.02	.90	1.01	.99	.97	.97	.96	.94	.94	.92	.91	.89
2.0	.97	.91	.87	.95	.90	.86	.91	.87	.84	.88	.85	.82	.85	.83	.80	.78
3.0	.87	.80	.75	.85	.79	.74	.83	.77	.73	.80	.76	.72	.78	.74	.71	.69
4.0	.79	.71	.65	.77	.70	.65	.75	.69	.64	.73	.68	.63	.71	.66	.63	.61
5.0	.71	.64	.58	.70	.63	.58	.68	.62	.57	.66	.61	.56	.65	.60	.56	.54
6.0	.65	.57	.52	.64	.57	.51	.62	.56	.51	.61	.55	.51	.59	.54	.50	.48
7.0	.60	.52	.46	.59	.51	.46	.57	.51	.46	.56	.50	.46	.55	.49	.45	.43
8.0	.55	.47	.42	.54	.47	.42	.53	.46	.42	.52	.46	.41	.51	.45	.41	.39
9.0	.51	.43	.38	.50	.43	.38	.49	.43	.38	.48	.42	.38	.47	.42	.38	.36
10.0	.47	.40	.35	.47	.40	.35	.46	.39	.35	.45	.39	.35	.44	.39	.35	.33



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WEC AND CCEC

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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	.237	.135	.043	.230	.131	.042	.217	.125	.040	.206	.119	.038	.195	.113	.036	
2.0	.232	.127	.039	.226	.124	.038	.215	.119	.037	.205	.115	.036	.195	.110	.035	
3.0	.221	.118	.035	.216	.116	.035	.206	.112	.034	.197	.108	.033	.189	.105	.032	
4.0	.209	.109	.032	.205	.107	.032	.196	.104	.031	.188	.101	.030	.181	.098	.030	
5.0	.197	.101	.029	.193	.099	.029	.186	.097	.028	.179	.094	.028	.172	.092	.028	
6.0	.186	.093	.027	.183	.092	.027	.176	.090	.026	.169	.088	.026	.164	.086	.026	
7.0	.176	.087	.025	.172	.086	.024	.166	.084	.024	.161	.082	.024	.155	.081	.024	
8.0	.166	.081	.023	.163	.080	.023	.158	.079	.022	.153	.077	.022	.148	.076	.022	
9.0	.157	.076	.021	.155	.075	.021	.150	.074	.021	.145	.073	.021	.141	.071	.021	
10.0	.149	.071	.020	.147	.071	.020	.142	.070	.020	.138	.069	.019	.134	.067	.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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.175	.157	.140	.150	.135	.121	.103	.093	.083	.059	.054	.048	.019	.017	.016	
2.0	.164	.132	.105	.141	.114	.091	.096	.079	.063	.056	.046	.037	.018	.015	.012	
3.0	.155	.114	.081	.133	.098	.070	.091	.068	.049	.053	.040	.029	.017	.013	.010	
4.0	.147	.100	.064	.126	.086	.056	.087	.060	.039	.050	.035	.023	.016	.011	.008	
5.0	.140	.089	.052	.120	.077	.045	.083	.054	.032	.048	.032	.019	.015	.010	.006	
6.0	.133	.081	.043	.114	.070	.038	.079	.049	.027	.046	.029	.016	.015	.009	.005	
7.0	.127	.074	.036	.109	.064	.032	.075	.045	.022	.044	.026	.013	.014	.009	.004	
8.0	.121	.068	.031	.104	.059	.027	.072	.041	.019	.042	.024	.012	.014	.008	.004	
9.0	.115	.063	.027	.099	.054	.024	.069	.038	.017	.040	.023	.010	.013	.007	.003	
10.0	.110	.058	.024	.095	.051	.021	.066	.036	.015	.038	.021	.009	.012	.007	.003	

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 Humidity:53.0%
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 Remarks:

UGR(Unified Glare Rating) Table

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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	19.8	21.1	20.0	21.3	21.4	19.7	21.0	20.0	21.2	21.4
3H	19.9	21.1	20.2	21.3	21.6	19.9	21.1	20.2	21.3	21.5
4H	19.9	21.1	20.2	21.3	21.5	19.9	21.0	20.2	21.2	21.5
6H	19.9	20.9	20.2	21.2	21.4	19.8	20.9	20.1	21.1	21.4
8H	19.8	20.8	20.1	21.1	21.4	19.8	20.8	20.1	21.1	21.3
12H	19.8	20.7	20.1	21.0	21.3	19.7	20.7	20.1	21.0	21.3
4H 2H	20.0	21.1	20.3	21.3	21.6	19.9	21.1	20.2	21.3	21.6
3H	20.2	21.2	20.5	21.5	21.7	20.2	21.1	20.5	21.4	21.7
4H	20.2	21.1	20.6	21.4	21.7	20.2	21.1	20.6	21.4	21.7
6H	20.2	21.0	20.6	21.3	21.7	20.1	20.9	20.5	21.3	21.6
8H	20.1	20.9	20.5	21.2	21.6	20.1	20.8	20.5	21.2	21.6
12H	20.1	20.8	20.5	21.1	21.5	20.1	20.7	20.5	21.1	21.5
8H 4H	20.2	20.9	20.6	21.2	21.6	20.1	20.8	20.5	21.2	21.6
6H	20.1	20.7	20.6	21.1	21.5	20.1	20.7	20.5	21.1	21.5
8H	20.1	20.6	20.5	21.0	21.5	20.0	20.6	20.5	21.0	21.4
12H	20.0	20.5	20.5	20.9	21.4	20.0	20.4	20.5	20.9	21.4
12H 4H	20.1	20.8	20.5	21.1	21.5	20.1	20.7	20.5	21.1	21.5
6H	20.1	20.6	20.5	21.0	21.5	20.0	20.5	20.5	21.0	21.4
8H	20.0	20.5	20.5	20.9	21.4	20.0	20.4	20.5	20.9	21.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.7 / - 1.0					+ 0.7 / - 1.0				
1.5H	+ 0.4 / - 0.6					+ 0.4 / - 0.6				
2.0H	+ 1.6 / - 2.1					+ 1.5 / - 2.1				

CIE Pub.117 Corrected 1928 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.3)

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 Remarks:

UTILIZATION FACTORS TABLE

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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	67	57	51	66	56	50	65	56	50	45
0.80	77	67	61	76	67	61	74	66	60	55
1.00	85	76	70	84	75	70	82	76	69	63
1.25	91	83	78	90	83	77	88	81	76	70
1.50	96	88	83	94	87	82	92	86	81	75
2.00	101	95	90	100	94	89	97	92	88	81
2.50	104	98	94	102	97	93	99	94	91	84
3.00	107	102	97	105	100	96	101	97	94	87
4.00	110	105	102	108	104	101	104	101	98	90
5.00	112	108	105	109	106	103	105	102	100	92
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

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ISOCANDELA DIAGRAM

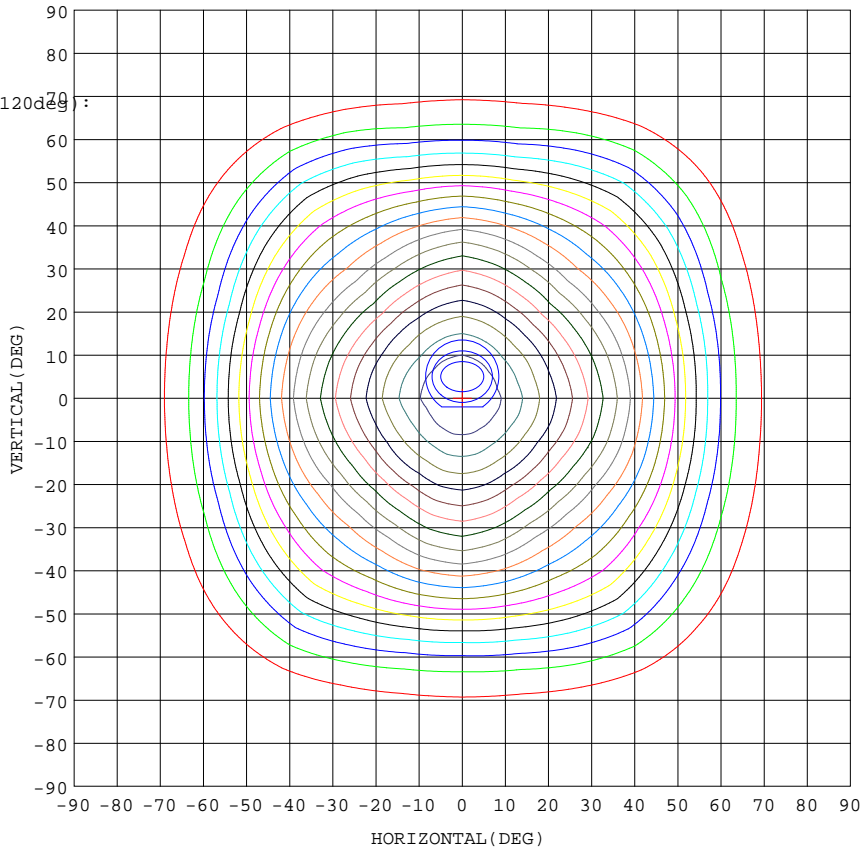
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Conical surface Flux(90deg):

1368.8 lm
%lum = 71.0%
%lamp = 71.0%

Conical surface Flux(120deg):

1790 lm
%lum = 92.8%
%lamp = 92.8%



1. AVG=1099,MIN=1078
2. AVG=1092,MIN=1055
3. AVG=1083,MIN=1027

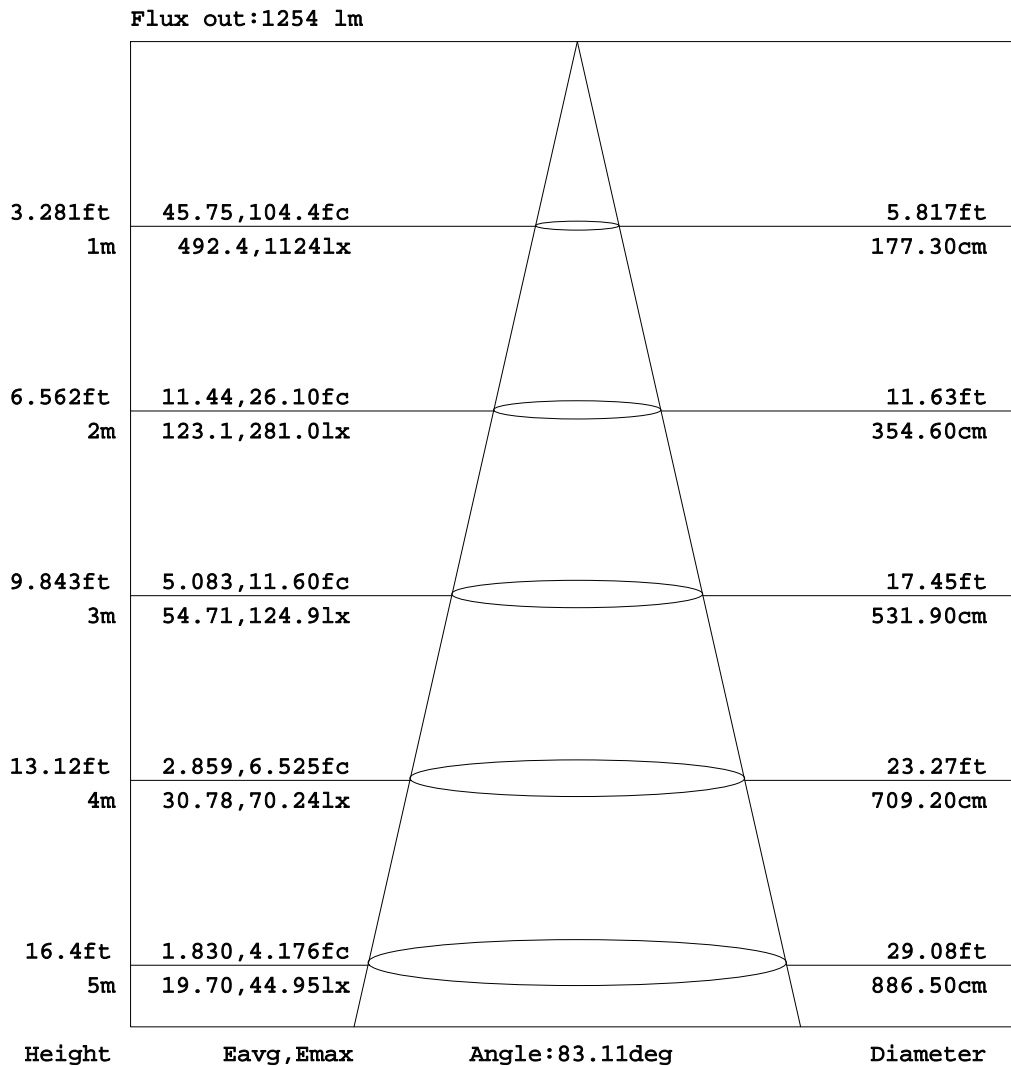
Imax:1124(H0.0,V0.0)
(At:C=0.0,Gamma=0.0)
UNIT: cd

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AAI Figure

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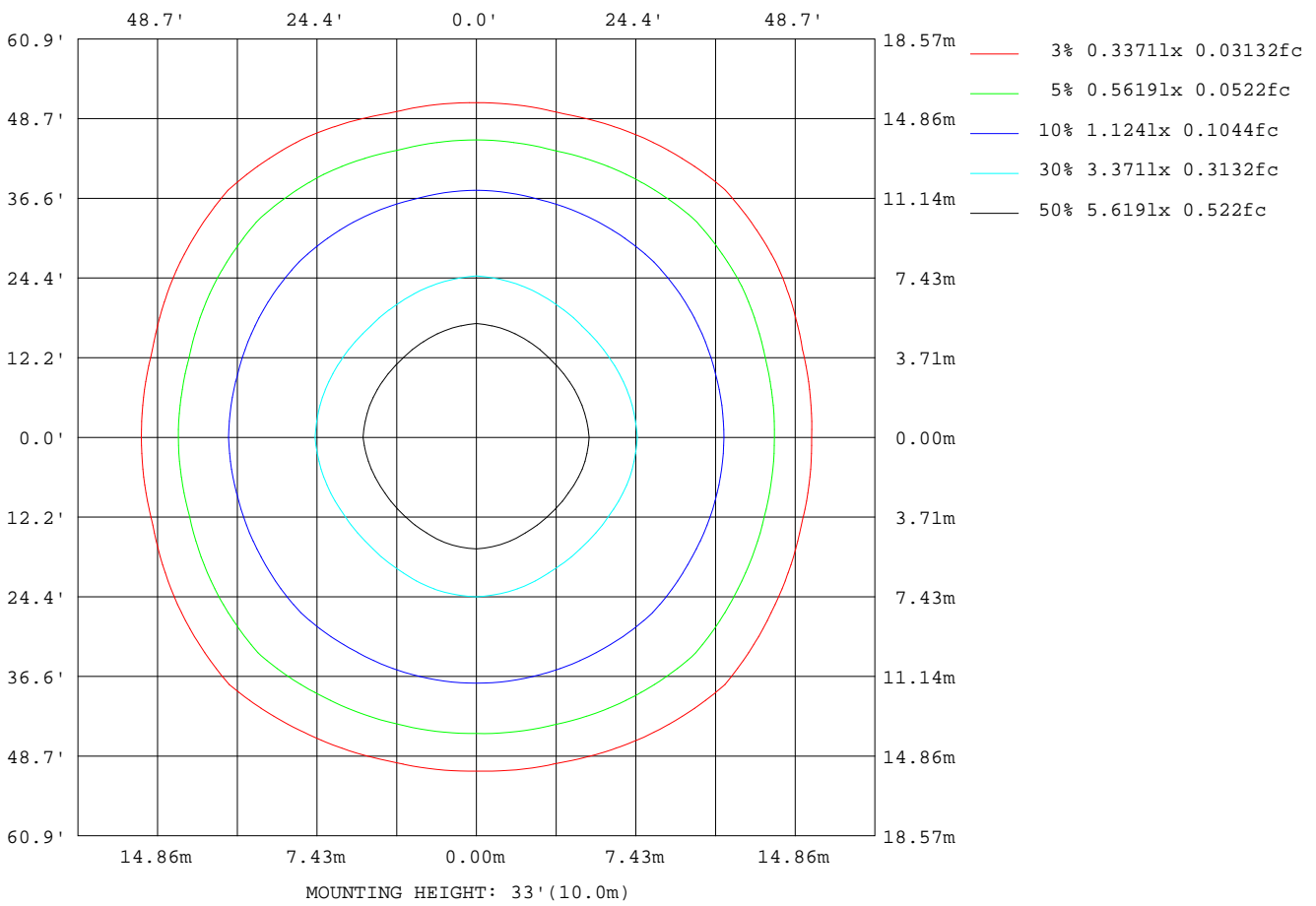
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

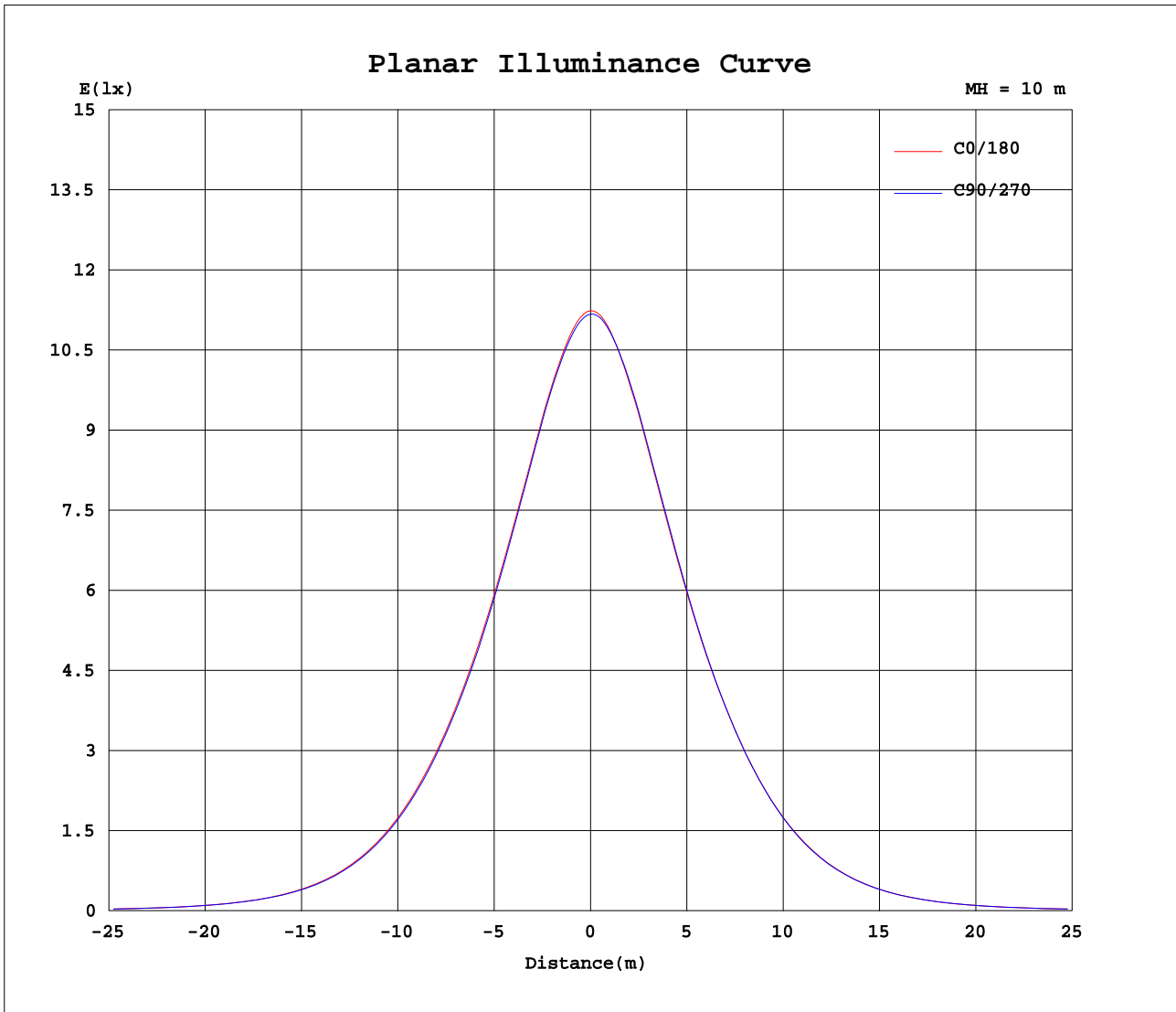
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Planar Illuminance Curve



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LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.3V I:0.1017A P:21.50W PF:0.9593 Lamp Flux:1927.97x1 lm		
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Table--1

UNIT: cd

C(DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1124	1122	1121	1120	1119	1118	1117	1117	1116	1116	1115	1115	1124	1122	1121	1120	1119	1118	1117
5	1104	1102	1099	1099	1097	1097	1097	1097	1097	1097	1097	1098	1109	1107	1107	1106	1107	1106	1105
10	1058	1055	1049	1047	1047	1051	1052	1052	1048	1048	1048	1052	1065	1062	1062	1060	1064	1065	1068
15	997	993	982	979	980	988	991	989	982	980	982	992	1007	1002	997	992	999	1007	1011
20	926	917	901	898	898	911	919	914	899	900	901	914	934	927	917	914	918	930	940
25	852	839	816	806	810	830	842	833	813	806	813	833	857	846	830	819	830	847	863
30	774	757	728	715	721	745	762	750	724	714	723	750	777	761	741	725	738	761	782
35	691	673	640	627	634	662	681	666	637	625	635	666	695	677	652	636	647	673	696
40	598	583	556	545	551	573	587	576	552	544	552	576	601	586	567	553	562	582	601
45	493	484	470	470	466	475	483	477	465	468	466	477	495	485	479	475	476	480	493
50	378	376	378	389	378	371	369	370	374	387	377	371	379	376	385	393	385	372	376
55	264	267	282	302	284	265	258	263	278	299	282	263	265	265	287	303	289	264	263
60	166	170	187	210	191	170	163	167	185	207	188	165	165	166	190	209	194	167	165
65	94.1	95.1	107	123	111	95.9	93.1	94.4	105	120	106	90.8	92.2	91.9	107	120	111	93.1	93.6
70	52.3	51.3	52.8	57.4	54.1	51.0	51.6	50.6	51.4	55.2	49.9	47.7	50.4	48.4	51.3	55.9	53.1	49.0	51.3
75	28.8	28.6	25.0	23.2	24.3	27.8	28.1	27.9	24.2	21.9	22.7	26.2	27.8	26.9	24.2	21.9	23.8	26.8	28.3
80	2.95	4.01	6.74	7.74	6.85	3.99	3.10	3.66	6.15	7.38	6.54	3.92	2.89	3.88	7.24	7.56	7.58	5.62	3.10
85	2.76	3.19	3.60	3.85	3.69	3.37	2.92	3.35	3.73	3.91	3.70	3.28	2.76	3.15	3.53	3.76	3.61	3.25	2.76
90	0.14	0.13	0.14	0.13	0.14	0.12	0.13	0.12	0.14	0.14	0.14	0.13	0.11	0.13	0.15	0.24	0.36	0.49	0.56

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Cao Chengpei
 Test Date:2014-08-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity:53.0%
 Test Distance:5.780m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.3V I:0.1017A P:21.50W PF:0.9593 Lamp Flux:1927.97x1 lm		
NAME: CS8R-20S-830	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L230mm*W230mm*H76mm	
MFR.: E-LITE LIGHTING CO.,LTD.		

Table--2

UNIT: cd

C(DEC)	285	300	315	330	345													
0	1117	1116	1116	1115	1115													
5	1103	1102	1100	1099	1097													
10	1063	1059	1053	1052	1051													
15	1004	995	986	988	990													
20	929	914	907	910	915													
25	847	827	815	823	836													
30	761	738	723	735	755													
35	674	649	635	648	672													
40	582	563	552	564	583													
45	481	476	475	478	484													
50	372	382	394	388	379													
55	262	284	304	294	271													
60	166	189	210	198	172													
65	93.2	109	123	114	96.0													
70	49.6	53.1	57.8	54.7	50.6													
75	27.7	25.3	22.8	24.8	27.9													
80	4.77	7.77	7.88	7.88	5.46													
85	3.16	3.57	3.77	3.60	3.19													
90	0.61	0.56	0.54	0.46	0.39													

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Cao Chengpei
 Test Date:2014-08-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity:53.0%
 Test Distance:5.780m [K=1.0000]
 Remarks:

Photometric Data Table [cd]

G/C	0.0	15.0	30.0	45.0	60.0	75.0	90.0	105.0	120.0	135.0
0.0	1124	1122	1121	1120	1119	1118	1117	1117	1116	1116
3.0	1116	1114	1112	1111	1109	1110	1109	1109	1108	1109
6.0	1096	1094	1091	1090	1089	1090	1089	1090	1089	1090
9.0	1068	1066	1060	1060	1058	1062	1062	1063	1060	1060
12.0	1036	1032	1023	1021	1022	1028	1030	1030	1024	1022
15.0	997.2	992.5	982.0	978.5	979.6	987.7	990.6	989.5	981.6	979.6
18.0	954.6	947.6	934.1	932.1	931.5	942.0	947.9	944.7	932.8	932.9
21.0	911.3	901.8	883.9	880.3	880.6	894.5	903.6	898.0	882.3	881.1
24.0	866.7	854.6	832.8	824.9	827.9	846.0	858.0	849.8	830.6	824.7
27.0	820.6	806.1	780.8	769.3	774.3	796.3	811.3	800.3	778.5	768.8
30.0	773.6	756.7	728.0	714.6	721.4	745.3	762.4	750.3	724.3	713.8
33.0	724.9	706.3	674.9	661.4	667.5	695.3	714.6	699.9	671.0	659.6
36.0	673.6	655.4	623.3	610.4	617.2	644.6	663.2	649.0	619.8	608.0
39.0	618.1	601.4	573.0	561.0	568.0	591.3	607.6	595.1	569.5	559.4
42.0	557.5	544.1	522.1	514.9	518.0	534.3	546.9	537.4	518.3	513.5
45.0	492.6	483.7	469.7	469.5	466.0	475.2	482.6	477.3	465.2	467.8
48.0	424.7	420.0	414.9	422.3	413.5	413.2	415.4	413.8	411.0	420.3
51.0	355.1	354.3	359.2	372.3	359.3	349.1	346.7	348.4	355.0	370.1
54.0	286.4	288.8	301.6	320.2	303.2	285.5	279.7	283.9	297.5	317.5
57.0	222.8	226.0	243.4	265.3	246.4	224.7	218.0	222.3	240.0	262.5
60.0	166.4	169.6	187.3	209.6	191.1	169.6	163.4	167.0	184.7	206.6
63.0	119.3	122.2	136.3	155.5	140.4	122.8	117.8	120.8	134.6	152.8
66.0	83.24	83.83	93.35	107.2	96.79	84.56	82.36	83.19	92.21	104.7
69.0	58.79	57.76	60.56	68.05	62.47	57.74	58.13	57.05	59.68	65.76
72.0	42.00	41.04	38.83	40.19	38.96	40.40	41.34	40.37	37.90	38.27
75.0	28.75	28.63	25.05	23.18	24.32	27.85	28.05	27.92	24.20	21.95
78.0	14.88	16.03	13.90	12.79	13.32	15.33	13.72	15.08	13.19	12.11
81.0	2.856	3.412	3.996	5.838	4.201	3.601	3.014	3.558	4.089	5.634
84.0	2.779	3.231	3.688	3.963	3.784	3.420	2.937	3.389	3.821	4.031
87.0	2.731	3.073	3.423	3.619	3.497	3.241	2.883	3.237	3.512	3.686
90.0	0.1435	0.1331	0.1373	0.1331	0.1352	0.1248	0.1269	0.1248	0.1352	0.1352
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	1115	1124	1122	1121	1120	1119	1118	1117	1117	1117
3.0	1109	1109	1119	1118	1117	1116	1116	1115	1114	1113
6.0	1089	1091	1102	1100	1101	1099	1100	1100	1099	1097
9.0	1060	1063	1075	1073	1073	1071	1074	1075	1076	1073
12.0	1023	1029	1042	1039	1037	1035	1040	1044	1047	1042
15.0	981.6	991.9	1007	1002	996.8	991.7	999.1	1007	1011	1004
18.0	934.8	945.8	963.2	957.6	950.8	945.9	952.9	961.1	969.0	959.3
21.0	883.8	898.4	918.7	910.6	899.6	896.8	900.7	913.8	925.3	912.8
24.0	830.9	849.6	872.7	861.9	847.5	838.5	847.8	864.1	878.8	863.6
27.0	776.4	800.1	825.7	812.3	794.8	781.6	793.4	813.0	830.6	812.8
30.0	722.6	750.1	776.8	761.3	741.2	725.3	737.9	760.6	781.6	760.9
33.0	669.7	699.2	728.6	710.9	686.2	670.8	683.0	707.8	730.5	708.9
36.0	618.5	648.8	677.3	659.5	635.2	618.4	630.0	655.4	678.2	656.3
39.0	569.0	595.2	621.1	605.2	584.5	568.7	578.8	600.8	621.0	601.5
42.0	518.2	537.6	559.7	546.6	532.8	521.8	527.9	542.5	559.1	543.1
45.0	466.2	477.4	494.8	485.3	478.9	475.3	475.6	480.4	492.6	480.8
48.0	413.2	414.5	426.2	420.8	423.3	427.1	421.3	416.2	423.0	416.0
51.0	358.7	349.3	356.0	353.8	365.7	375.7	366.0	350.3	352.7	349.3
54.0	301.6	284.2	286.7	286.8	306.7	321.9	308.8	285.3	284.5	283.7
57.0	243.8	221.8	221.9	223.3	247.2	265.8	250.4	223.5	221.1	221.7
60.0	187.5	165.0	164.8	165.7	189.6	208.6	194.0	167.3	165.4	165.7
63.0	135.9	117.5	118.4	118.1	137.5	153.9	142.2	119.4	119.6	118.9
66.0	91.99	79.83	81.53	80.39	93.70	104.8	97.54	81.75	82.85	81.86
69.0	59.13	53.99	56.61	54.99	60.08	65.56	62.43	55.87	57.60	56.32
72.0	36.20	37.85	40.45	38.68	37.76	38.35	38.37	38.70	41.05	39.66
75.0	22.73	26.20	27.76	26.94	24.21	21.89	23.83	26.79	28.31	27.65
78.0	12.56	14.53	14.62	15.07	13.78	12.23	13.51	15.51	15.62	15.92
81.0	4.167	3.510	2.838	3.364	4.214	5.776	4.816	3.481	2.859	3.381
84.0	3.801	3.339	2.776	3.201	3.617	3.867	3.698	3.297	2.776	3.205
87.0	3.446	3.139	2.728	3.031	3.336	3.491	3.401	3.130	2.747	3.076
90.0	0.1352	0.1269	0.1061	0.1310	0.1518	0.2392	0.3598	0.4949	0.5553	0.6093
G/C	300.0	315.0	330.0	345.0						
0.0	1116	1116	1115	1115						
3.0	1112	1111	1110	1108						
6.0	1096	1092	1092	1089						
9.0	1069	1064	1063	1061						
12.0	1036	1028	1028	1028						
15.0	995.1	986.5	987.6	990.0						
18.0	947.4	940.0	942.8	945.0						
21.0	896.8	889.3	892.9	899.2						

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Cao Chengpei

Test Date: 2014-08-29

γ Range: 0 - 90DEG

γ Interval: 1.0DEG

Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288

Humidity: 53.0%

Test Distance: 5.780m [K=1.0000]

Remarks:

Photometric Data Table [cd]

24.0	844.6	833.5	840.9	852.1
27.0	791.5	778.2	787.2	804.2
30.0	737.6	722.8	734.6	755.2
33.0	683.2	669.2	682.4	705.1
36.0	631.3	617.2	631.0	654.5
39.0	580.4	568.0	580.7	601.3
42.0	529.0	520.6	530.2	544.5
45.0	476.1	474.7	478.4	484.5
48.0	420.2	427.0	424.7	422.1
51.0	362.6	376.4	369.8	357.2
54.0	304.0	322.8	313.3	291.9
57.0	245.4	267.0	255.2	229.7
60.0	189.3	210.0	198.3	172.1
63.0	138.5	155.9	145.6	123.3
66.0	95.47	107.0	100.1	84.26
69.0	61.96	67.60	64.31	57.71
72.0	39.33	39.91	39.64	40.21
75.0	25.32	22.84	24.82	27.94
78.0	14.49	12.76	14.14	16.02
81.0	4.521	5.989	4.952	3.438
84.0	3.645	3.875	3.698	3.243
87.0	3.438	3.549	3.390	3.078
90.0	0.5636	0.5449	0.4617	0.3930

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Cao Chengpei
 Test Date: 2014-08-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity: 53.0%
 Test Distance: 5.780m [K=1.0000]
 Remarks: