

LED Downlight CATO Series CS8F-20S-840



Light Output Ratio:	100.0%	
Luminaire Power:	21.57 W	
SHR Nominal:	1.25	Calculated using the TM5
SHR Maximum:	1.25	fine grid method.

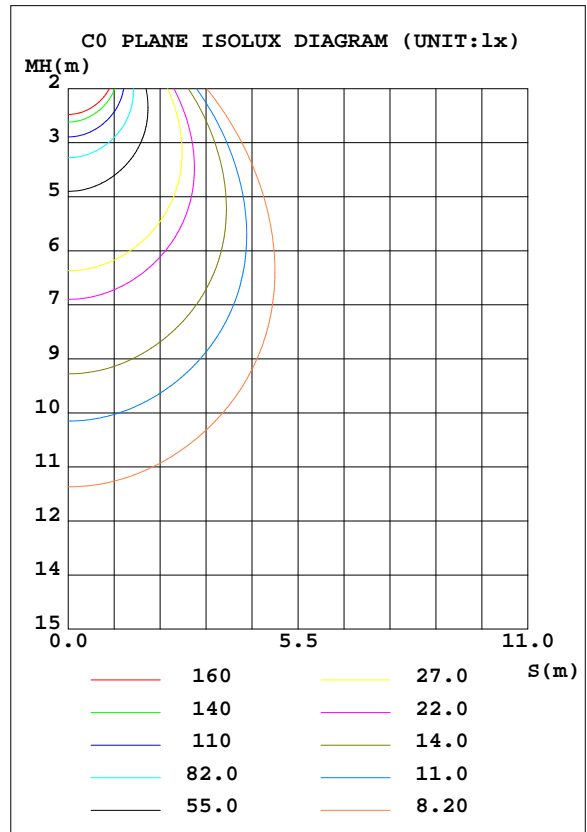
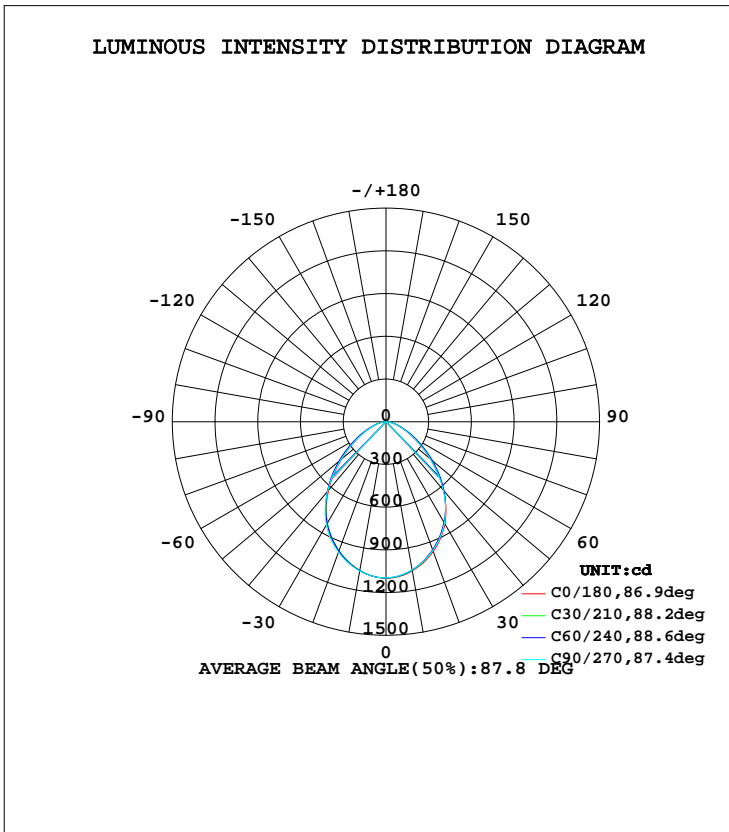
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Cao Chengpei
 Test Date: 2014-08-29

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:0.1020A P:21.57W PF:0.9595 Lamp Flux:2218.73x1 lm		
NAME: CS8F-20S-840	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L230mm*W230mm*H76mm	
MFR.: E-LITE LIGHTING CO.,LTD.		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 102.85 lm/W			
MODEL	SAMSUNG-4000K	I _{max} (cd)	1099	S/MH(C0/180)	1.14
NOMINAL POWER(W)	22	LOR(%)	100.0	S/MH(C90/270)	1.15
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2218.7	η UP, DN(C0-180)	0.0, 49.7
NOMINAL FLUX(lm)	2218.73	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 50.3
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	1.25



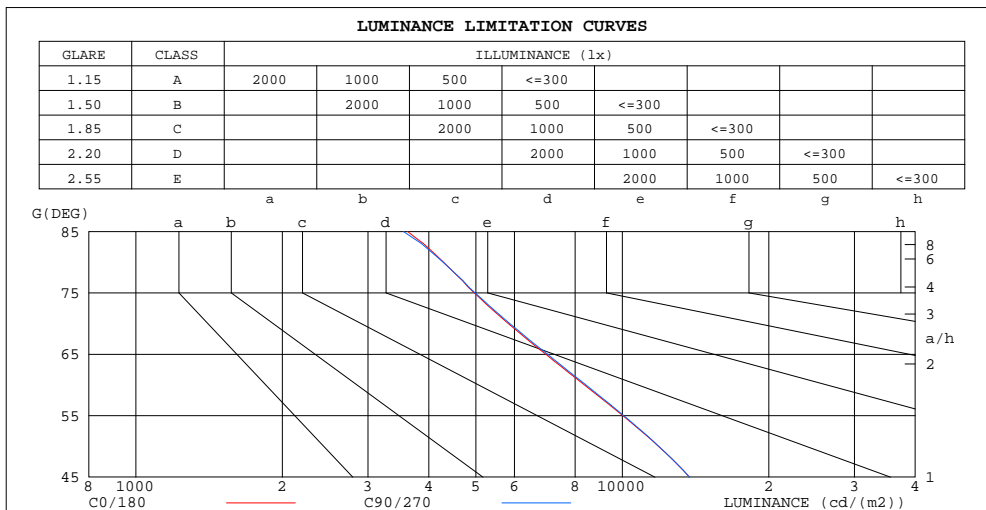
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	1063	1058	1056	1054	1061	1060	1065	1062	0- 10	102.9	102.9	4.64,4.64
20	969.5	957.5	961.8	954.3	968.0	962.1	976.4	966.3	10- 20	286.5	389.4	17.5,17.5
30	827.5	816.6	821.6	813.7	825.8	821.1	837.9	826.5	20- 30	413.4	802.8	36.2,36.2
40	627.8	638.2	625.2	635.0	627.4	640.9	638.5	646.7	30- 40	457.7	1261	56.8,56.8
50	403.7	434.1	404.2	431.5	405.5	435.2	411.6	438.9	40- 50	405.6	1666	75.1,75.1
60	221.1	248.9	222.7	247.2	223.2	248.6	225.9	250.1	50- 60	287.9	1954	88.1,88.1
70	105.5	119.8	106.3	118.6	106.5	118.6	108.1	119.3	60- 70	166.6	2121	95.6,95.6
80	39.40	43.49	39.31	42.57	39.32	43.25	40.84	43.86	70- 80	77.62	2198	99.1,99.1
90	0.3390	0.2787	0.2558	0.2745	0.2350	0.4242	0.8048	0.9088	80- 90	20.44	2219	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	3618	3547
80	4289	4279
75	4961	4982
70	5830	5873
65	6961	7019
60	8359	8419
55	10020	10066
50	11873	11888
45	13751	13730

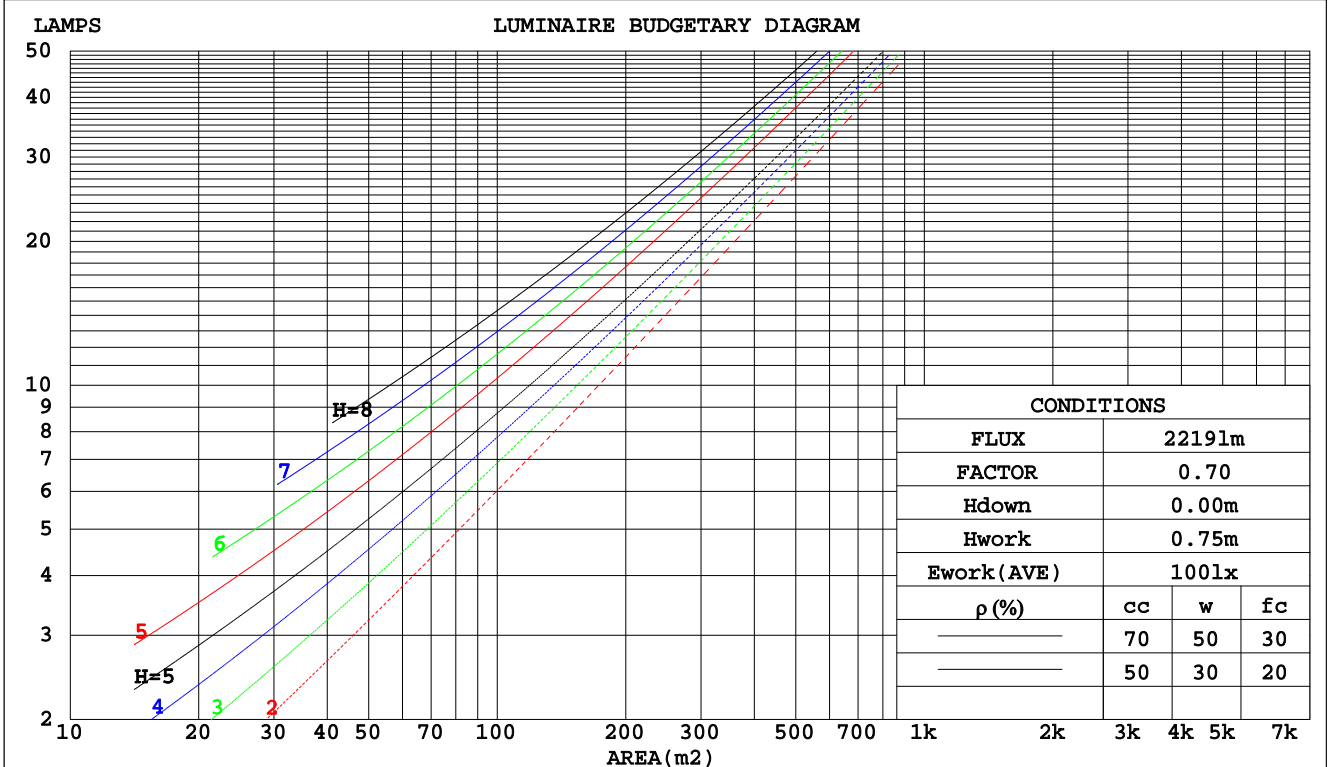
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:4000K	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																0
pfc																0
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	1.06	1.03	.99	1.04	1.01	.98	.90	.97	.95	.96	.94	.92	.93	.91	.89	.87
2.0	.95	.89	.84	.93	.87	.83	.89	.85	.81	.86	.82	.79	.83	.80	.77	.75
3.0	.85	.77	.72	.83	.76	.71	.80	.74	.70	.78	.73	.69	.75	.71	.67	.65
4.0	.76	.68	.62	.75	.67	.62	.72	.66	.61	.70	.65	.60	.68	.63	.59	.57
5.0	.69	.61	.55	.68	.60	.54	.66	.59	.54	.64	.58	.53	.62	.57	.53	.51
6.0	.62	.54	.48	.62	.54	.48	.60	.53	.48	.58	.52	.47	.57	.51	.47	.45
7.0	.57	.49	.43	.56	.49	.43	.55	.48	.43	.53	.47	.43	.52	.47	.42	.40
8.0	.52	.45	.39	.52	.44	.39	.51	.44	.39	.49	.43	.39	.48	.43	.38	.37
9.0	.48	.41	.36	.48	.41	.35	.47	.40	.35	.46	.40	.35	.45	.39	.35	.33
10.0	.45	.37	.33	.44	.37	.32	.43	.37	.32	.43	.36	.32	.42	.36	.32	.30



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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	.262	.149	.047	.255	.146	.046	.242	.139	.044	.230	.133	.043	.219	.127	.041	
2.0	.251	.138	.042	.245	.135	.042	.234	.130	.040	.223	.125	.039	.214	.121	.038	
3.0	.236	.126	.038	.231	.124	.037	.221	.120	.036	.212	.116	.036	.204	.113	.035	
4.0	.221	.115	.034	.217	.113	.034	.208	.110	.033	.200	.107	.032	.192	.104	.032	
5.0	.207	.106	.031	.203	.104	.030	.195	.102	.030	.188	.099	.030	.181	.097	.029	
6.0	.194	.097	.028	.191	.096	.028	.184	.094	.027	.177	.092	.027	.171	.090	.027	
7.0	.182	.090	.026	.179	.089	.025	.173	.087	.025	.167	.086	.025	.162	.084	.025	
8.0	.172	.084	.024	.169	.083	.023	.163	.082	.023	.158	.080	.023	.153	.079	.023	
9.0	.162	.078	.022	.159	.078	.022	.154	.076	.022	.150	.075	.021	.145	.074	.021	
10.0	.153	.073	.020	.151	.073	.020	.146	.072	.020	.142	.071	.020	.138	.069	.020	

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	.177	.157	.138	.151	.134	.119	.104	.092	.082	.060	.053	.048	.019	.017	.015	
2.0	.167	.132	.103	.143	.114	.089	.098	.079	.062	.056	.046	.036	.018	.015	.012	
3.0	.158	.114	.079	.135	.098	.069	.093	.068	.048	.054	.040	.028	.017	.013	.009	
4.0	.150	.100	.062	.129	.087	.054	.089	.060	.038	.051	.035	.023	.016	.012	.007	
5.0	.143	.090	.051	.122	.078	.044	.084	.054	.031	.049	.032	.018	.016	.010	.006	
6.0	.136	.081	.042	.117	.070	.037	.080	.049	.026	.047	.029	.015	.015	.009	.005	
7.0	.129	.074	.035	.111	.064	.031	.077	.045	.022	.045	.027	.013	.014	.009	.004	
8.0	.123	.068	.030	.106	.059	.027	.073	.042	.019	.043	.025	.011	.014	.008	.004	
9.0	.118	.063	.027	.101	.055	.023	.070	.039	.016	.041	.023	.010	.013	.007	.003	
10.0	.112	.059	.024	.097	.051	.021	.067	.036	.015	.039	.021	.009	.013	.007	.003	

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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	20.4	21.7	20.6	21.9	22.1	20.4	21.8	20.7	22.0	22.2
3H	21.0	22.3	21.3	22.5	22.7	21.1	22.4	21.4	22.6	22.8
4H	21.3	22.5	21.6	22.7	22.9	21.3	22.5	21.6	22.8	23.0
6H	21.4	22.5	21.7	22.8	23.1	21.5	22.6	21.8	22.9	23.1
8H	21.5	22.5	21.8	22.8	23.1	21.5	22.6	21.9	22.9	23.2
12H	21.5	22.5	21.8	22.8	23.1	21.5	22.6	21.9	22.8	23.1
4H 2H	20.7	21.9	21.0	22.2	22.4	20.8	22.0	21.1	22.2	22.5
3H	21.6	22.6	21.9	22.9	23.2	21.6	22.7	22.0	23.0	23.2
4H	21.9	22.8	22.3	23.1	23.5	22.0	22.9	22.3	23.2	23.5
6H	22.1	23.0	22.5	23.3	23.7	22.2	23.0	22.6	23.4	23.7
8H	22.2	23.0	22.6	23.3	23.7	22.3	23.0	22.7	23.4	23.8
12H	22.3	23.0	22.7	23.3	23.7	22.3	23.0	22.7	23.4	23.8
8H 4H	22.0	22.8	22.4	23.1	23.5	22.1	22.8	22.5	23.2	23.6
6H	22.4	23.0	22.8	23.4	23.8	22.4	23.1	22.9	23.5	23.9
8H	22.5	23.1	23.0	23.5	23.9	22.6	23.1	23.0	23.5	24.0
12H	22.6	23.1	23.1	23.5	24.0	22.7	23.1	23.1	23.6	24.0
12H 4H	22.0	22.7	22.4	23.1	23.5	22.1	22.8	22.5	23.1	23.5
6H	22.4	22.9	22.8	23.4	23.8	22.4	23.0	22.9	23.4	23.9
8H	22.5	23.0	23.0	23.5	23.9	22.6	23.1	23.1	23.5	24.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.5					+ 0.4 / - 0.5				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.8 / - 0.9					+ 0.7 / - 0.9				

CIE Pub.117 Corrected 2219 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.8)

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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	64	54	48	64	54	48	63	53	48	42
0.80	74	64	58	74	64	58	72	63	57	51
1.00	83	73	67	81	72	66	79	73	66	60
1.25	89	80	74	88	79	74	85	78	73	67
1.50	94	85	79	92	84	79	89	83	78	71
2.00	99	92	87	98	91	86	94	89	85	78
2.50	103	96	91	101	95	90	97	92	88	81
3.00	105	100	95	103	98	94	100	95	92	84
4.00	109	104	100	106	102	99	102	99	96	88
5.00	111	107	103	108	105	102	104	101	99	90
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

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ISOCANDELA DIAGRAM

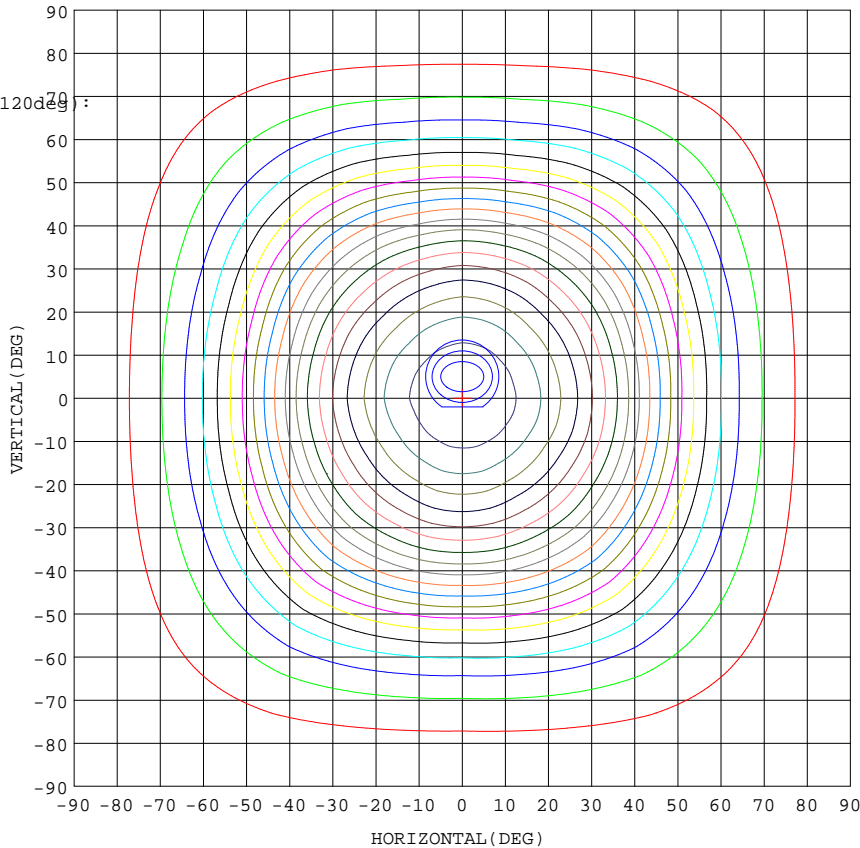
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Conical surface Flux(90deg):

1475.3 lm
%lum = 66.5%
%lamp = 66.5%

Conical surface Flux(120deg):

1954 lm
%lum = 88.1%
%lamp = 88.1%



1. AVG=1085,MIN=1073
2. AVG=1081,MIN=1057
3. AVG=1076,MIN=1039

Imax:1099(H0.0,V0.0)
(At:C=0.0,Gamma=0.0)
UNIT: cd

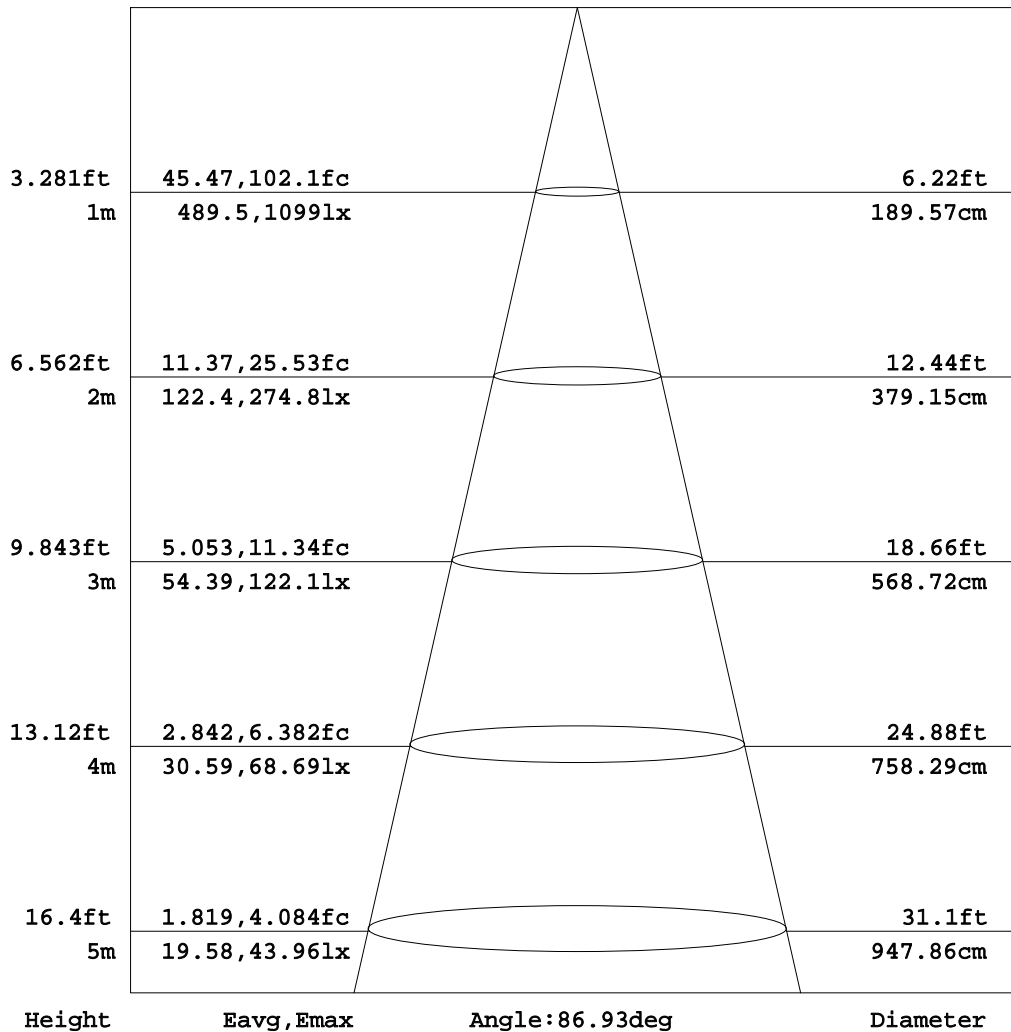
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AAI Figure

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Flux out:1434 lm



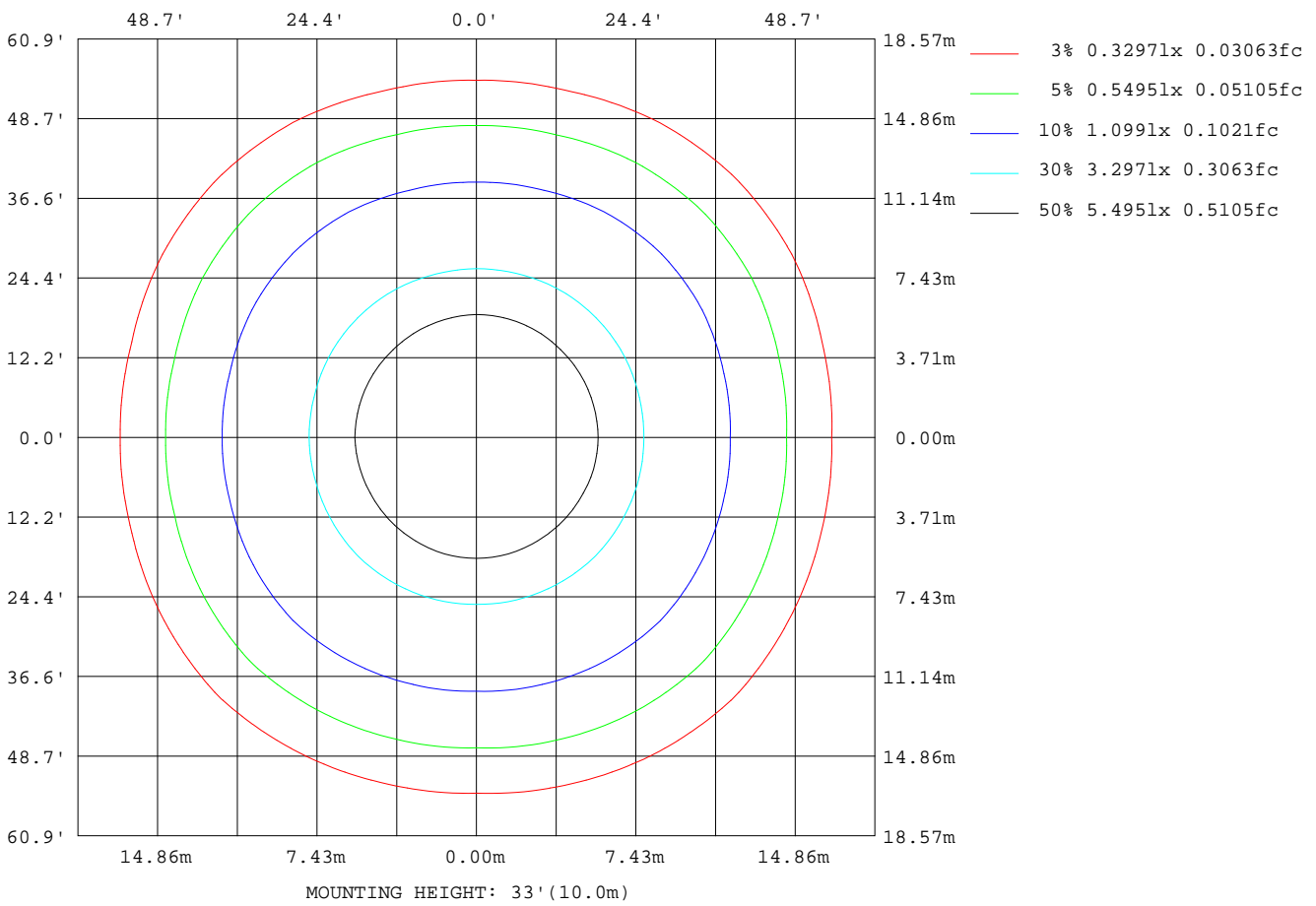
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

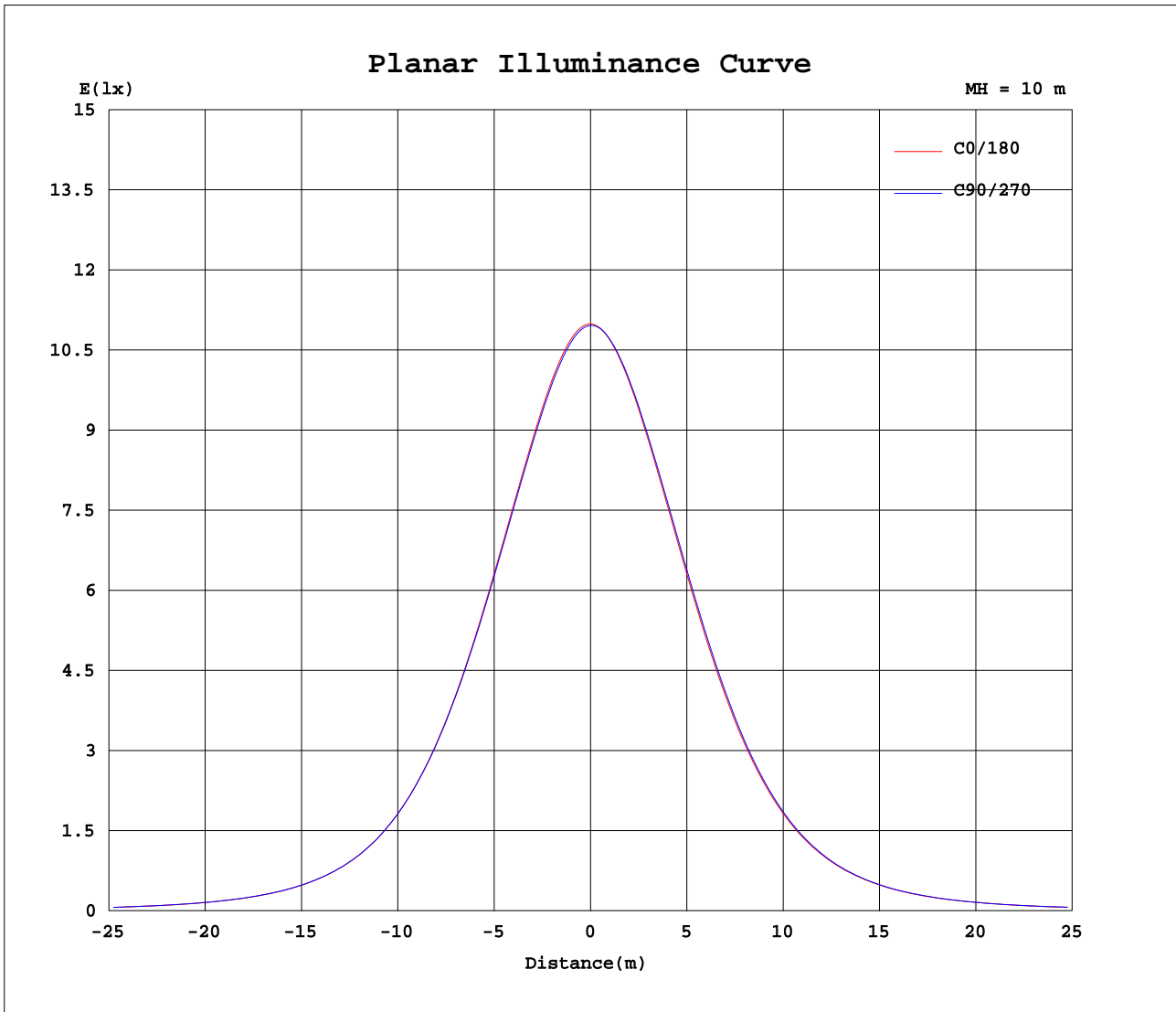
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Planar Illuminance Curve



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LUMINOUS DISTRIBUTION INTENSITY DATA

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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	1099	1098	1098	1097	1097	1097	1096	1096	1096	1096	1096	1096	1099	1098	1098	1097	1097	1097	1096
5	1090	1089	1088	1087	1086	1086	1084	1084	1084	1084	1084	1084	1088	1088	1088	1088	1089	1088	1089
10	1063	1062	1059	1058	1057	1057	1056	1056	1054	1054	1054	1056	1061	1060	1061	1060	1062	1063	1065
15	1022	1020	1015	1014	1012	1015	1014	1014	1010	1010	1010	1014	1020	1018	1019	1017	1020	1023	1026
20	970	967	960	957	957	961	962	961	955	954	955	960	968	966	965	962	966	971	976
25	905	902	894	891	891	897	898	897	890	889	889	895	904	901	899	897	901	907	914
30	828	825	818	817	816	821	822	821	815	814	813	818	826	823	823	821	826	830	838
35	734	734	730	732	729	732	730	731	728	729	725	727	733	732	735	736	739	739	745
40	628	630	632	638	633	630	625	628	631	635	628	624	627	628	637	641	642	635	638
45	514	519	527	537	530	521	514	519	526	534	524	515	515	518	532	539	537	524	524
50	404	410	422	434	426	414	404	411	421	431	420	408	406	409	427	435	431	415	412
55	304	310	323	336	327	315	305	312	323	334	323	309	306	310	328	336	331	314	310
60	221	227	238	249	242	231	223	228	238	247	238	226	223	226	241	249	244	230	226
65	156	160	168	177	171	163	157	161	168	175	168	160	157	160	171	176	173	162	159
70	105	109	114	120	116	111	106	109	113	119	113	108	107	108	115	119	117	110	108
75	67.9	70.1	72.5	76.2	73.7	71.2	68.2	70.1	72.1	75.1	72.0	69.2	68.5	68.9	73.6	75.4	74.9	70.7	70.0
80	39.4	40.5	41.7	43.5	42.2	40.9	39.3	40.3	41.2	42.6	41.0	39.6	39.3	39.7	42.2	43.3	43.2	41.2	40.8
85	16.7	17.2	17.6	18.3	17.6	17.2	16.4	16.9	17.1	17.6	16.8	16.4	16.4	16.7	17.9	18.4	18.7	17.9	17.8
90	0.34	0.29	0.29	0.28	0.27	0.26	0.26	0.26	0.27	0.27	0.27	0.27	0.23	0.25	0.30	0.42	0.54	0.70	0.80

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:0.1020A P:21.57W PF:0.9595 Lamp Flux:2218.73x1 lm		
NAME: CS8F-20S-840	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L230mm*W230mm*H76mm	
MFR.: E-LITE LIGHTING CO.,LTD.		

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	1096	1096	1096	1096	1096														
5	1089	1089	1088	1088	1087														
10	1064	1064	1062	1063	1061														
15	1025	1024	1021	1021	1020														
20	975	972	966	967	967														
25	912	908	901	902	903														
30	836	833	827	827	826														
35	745	746	742	740	735														
40	639	647	647	643	632														
45	527	540	544	539	522														
50	415	432	439	432	413														
55	314	331	339	333	314														
60	229	244	250	245	229														
65	161	172	177	173	162														
70	109	116	119	117	109														
75	70.4	74.7	76.0	75.0	70.4														
80	41.1	43.2	43.9	43.3	41.0														
85	17.9	18.9	19.0	18.8	17.7														
90	0.90	0.89	0.91	0.84	0.78														

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	1099	1098	1098	1097	1097	1097	1096	1096	1096	1096
3.0	1096	1095	1094	1094	1093	1092	1091	1091	1091	1091
6.0	1086	1085	1083	1083	1081	1081	1080	1080	1079	1079
9.0	1070	1069	1066	1065	1064	1064	1063	1063	1061	1062
12.0	1048	1047	1043	1042	1041	1041	1040	1040	1038	1038
15.0	1022	1020	1015	1014	1012	1015	1014	1014	1010	1010
18.0	991.9	989.5	983.2	981.3	980.2	983.7	983.8	983.2	978.6	978.0
21.0	957.6	954.7	947.3	944.9	944.3	949.2	949.9	948.9	943.2	942.0
24.0	919.0	915.9	907.7	905.3	904.9	910.6	911.8	910.6	904.0	902.5
27.0	875.8	872.8	864.6	862.6	862.1	868.0	869.2	868.2	861.2	859.8
30.0	827.5	825.0	817.8	816.6	815.8	820.8	821.6	820.8	814.8	813.7
33.0	773.2	771.7	766.6	767.0	765.3	768.6	768.2	768.4	764.0	764.0
36.0	713.8	714.0	711.3	714.2	711.0	712.1	709.9	711.4	709.2	711.1
39.0	650.0	651.6	652.6	657.9	653.2	651.0	647.1	649.8	650.8	654.6
42.0	582.9	586.2	590.9	598.3	592.6	586.9	581.0	585.4	589.4	595.2
45.0	514.4	519.3	527.0	537.2	529.9	521.3	513.6	519.2	526.0	534.1
48.0	447.0	452.9	463.3	475.2	466.9	455.9	447.0	453.2	462.8	472.1
51.0	382.7	389.0	401.1	413.8	405.3	392.9	383.4	389.8	401.0	411.1
54.0	322.8	329.4	341.9	355.0	346.1	333.6	324.1	330.5	341.8	352.7
57.0	268.8	275.1	287.2	299.5	291.5	279.4	270.3	276.3	287.4	297.5
60.0	221.1	226.8	237.6	248.9	241.7	230.8	222.7	227.9	238.0	247.2
63.0	179.8	184.7	193.9	203.6	197.4	188.3	181.1	185.8	194.1	202.1
66.0	144.3	148.6	155.9	163.9	158.8	151.5	145.5	149.4	155.9	162.6
69.0	114.4	118.2	123.3	129.8	125.6	120.4	115.3	118.7	123.2	128.6
72.0	89.15	91.88	95.70	100.6	97.42	93.50	89.74	92.17	95.48	99.48
75.0	67.92	70.08	72.52	76.21	73.68	71.15	68.22	70.11	72.14	75.12
78.0	50.06	51.43	53.15	55.46	53.87	52.07	50.12	51.29	52.71	54.52
81.0	34.44	35.42	36.42	37.94	36.81	35.72	34.29	35.15	35.90	37.05
84.0	20.77	21.48	21.92	22.86	22.06	21.51	20.50	21.12	21.41	22.11
87.0	9.423	9.756	9.773	10.05	9.662	9.535	8.993	9.286	9.216	9.437
90.0	0.3390	0.2870	0.2891	0.2787	0.2724	0.2620	0.2558	0.2620	0.2703	0.2745
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	1096	1096	1098	1098	1098	1097	1097	1097	1096	1096
3.0	1091	1091	1095	1094	1094	1094	1094	1094	1094	1094
6.0	1079	1080	1084	1083	1084	1084	1085	1085	1085	1085
9.0	1061	1063	1068	1067	1067	1067	1069	1069	1071	1070
12.0	1038	1040	1046	1045	1045	1045	1047	1048	1051	1050
15.0	1010	1014	1020	1018	1019	1017	1020	1023	1026	1025
18.0	978.3	983.2	990.2	988.3	987.6	985.3	989.2	992.9	997.8	996.3
21.0	942.4	948.3	956.2	953.9	952.4	949.8	954.3	958.9	965.0	963.3
24.0	902.9	909.3	917.8	915.2	913.3	910.4	915.3	920.8	927.9	925.7
27.0	859.5	865.8	874.4	871.7	870.3	867.6	872.6	878.1	885.6	883.4
30.0	812.5	817.7	825.8	823.2	823.2	821.1	826.1	830.1	837.9	835.8
33.0	761.5	764.4	771.7	769.8	771.8	771.2	775.2	777.4	784.2	782.8
36.0	706.5	707.0	712.7	711.5	716.7	717.6	720.6	719.4	725.2	724.3
39.0	648.3	645.4	649.2	649.4	657.6	660.7	661.9	657.2	660.7	661.3
42.0	586.9	580.7	583.0	584.1	596.0	600.7	600.5	591.6	593.3	594.7
45.0	524.2	515.0	515.4	517.6	532.5	538.8	536.9	524.4	524.1	526.5
48.0	461.5	449.6	448.4	451.8	468.5	476.4	472.9	457.9	455.7	459.1
51.0	400.2	386.9	384.6	388.3	406.2	414.7	410.3	393.7	390.2	394.0
54.0	341.5	328.1	325.2	329.0	346.8	355.2	350.5	333.4	329.5	333.3
57.0	287.2	274.3	271.1	274.8	291.5	299.7	294.8	278.7	274.4	278.1
60.0	238.0	226.3	223.2	226.3	241.3	248.6	244.4	229.6	225.9	228.8
63.0	194.2	184.3	181.6	184.3	197.0	203.3	199.5	187.1	183.7	186.3
66.0	156.0	148.1	146.0	148.0	158.4	163.3	160.5	150.3	147.7	149.6
69.0	123.2	117.2	115.6	116.9	125.5	129.0	127.3	119.1	117.3	118.5
72.0	95.25	91.15	90.02	90.92	97.20	99.83	98.75	92.80	91.57	92.37
75.0	71.98	69.25	68.45	68.95	73.60	75.38	74.91	70.67	69.97	70.37
78.0	52.48	50.54	50.09	50.63	53.74	55.06	54.87	52.22	51.61	52.02
81.0	35.64	34.50	34.32	34.66	36.87	37.75	37.83	36.08	35.81	36.05
84.0	21.16	20.57	20.53	20.84	22.29	22.89	23.10	22.14	22.00	22.16
87.0	8.920	8.877	9.121	9.265	9.970	10.28	10.61	10.26	10.28	10.37
90.0	0.2745	0.2703	0.2350	0.2537	0.3036	0.4242	0.5365	0.7050	0.8048	0.9025
G/C	300.0	315.0	330.0	345.0						
0.0	1096	1096	1096	1096						
3.0	1094	1094	1094	1093						
6.0	1085	1085	1085	1084						
9.0	1070	1069	1068	1068						
12.0	1050	1048	1048	1046						
15.0	1024	1021	1021	1020						
18.0	993.9	989.3	989.8	989.7						
21.0	959.8	954.0	954.6	955.0						

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	921.6	915.1	915.6	916.5
27.0	879.3	872.6	872.9	873.4
30.0	832.9	826.5	826.6	825.7
33.0	782.0	777.0	776.1	773.1
36.0	726.9	723.5	721.8	715.5
39.0	667.2	666.6	663.2	654.0
42.0	604.6	606.2	601.8	589.0
45.0	540.0	543.7	538.6	522.3
48.0	474.7	480.7	474.5	456.2
51.0	411.0	418.2	411.7	392.3
54.0	350.6	358.2	351.6	332.4
57.0	294.3	302.0	295.8	278.0
60.0	243.6	250.1	245.1	228.7
63.0	198.7	204.4	200.0	186.5
66.0	159.7	164.2	160.8	149.9
69.0	126.7	129.6	127.4	118.7
72.0	98.26	100.5	98.87	92.48
75.0	74.65	75.99	75.01	70.37
78.0	54.77	55.76	54.95	51.93
81.0	37.92	38.35	37.94	35.87
84.0	23.32	23.50	23.25	21.93
87.0	10.94	10.85	10.82	10.18
90.0	0.8880	0.9088	0.8422	0.7798

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: