

LED Downlight FUSION Series FF3-7W-830-40D Specular



Light Output Ratio:	100.0%	
Luminaire Power:	8.341 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.65	fine grid method.

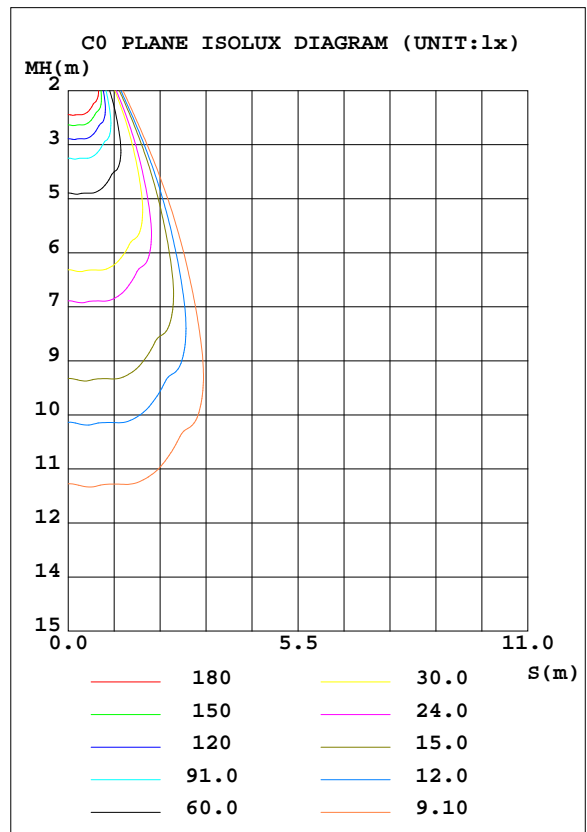
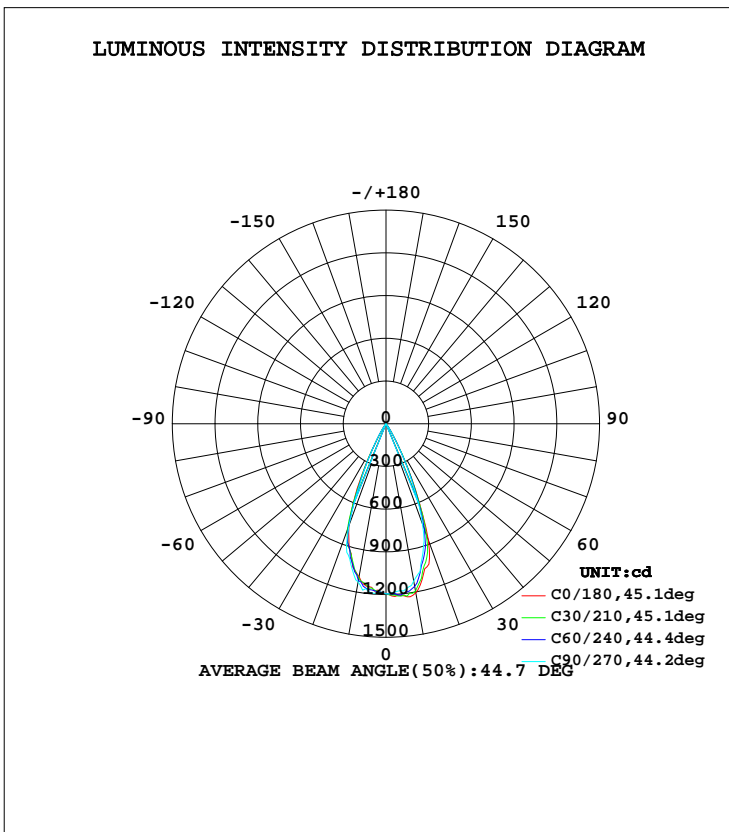
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Cao Chengpei
Test Date: 2016-06-24

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 53.0%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.6V I:0.0463A P:8.341W PF:0.8169 Lamp Flux:606.61lx1 lm		
NAME: FF3-7W-830-40D Specular	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L98mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 72.73 lm/W
MODEL	CREE-3000K	I _{max} (cd)	1229	S/MH(C0/180)	0.67	
NOMINAL POWER(W)	8.5	LOR(%)	100.0	S/MH(C90/270)	0.65	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	606.61	η UP, DN(C0-180)	0.0, 50.2	
NOMINAL FLUX(lm)	606.611	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 49.8	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	0.65	



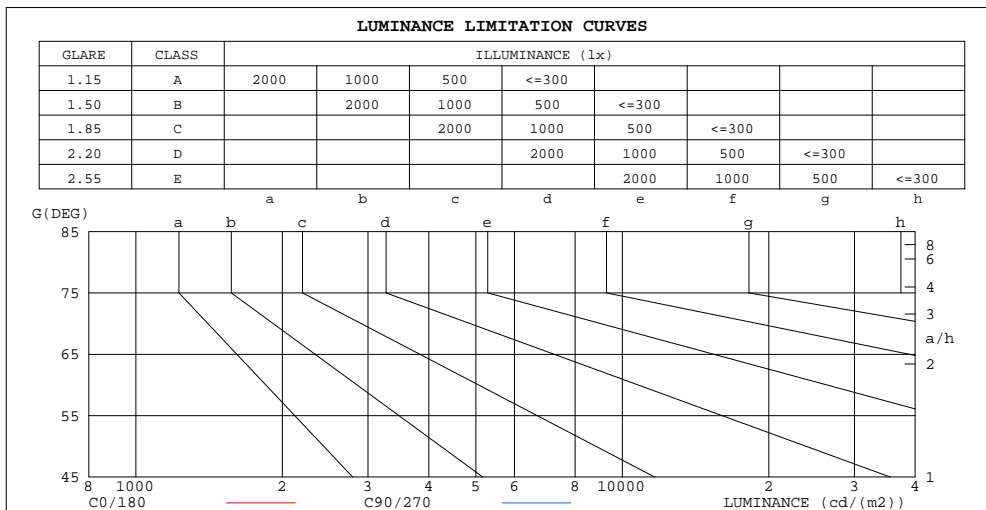
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Remarks:

**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\#lum, lamp$
10	1205	1174	1123	1112	1092	1098	1127	1175	0- 10	111.9	111.9	18.4,18.4
20	867.6	827.4	751.1	755.7	761.0	768.6	758.9	848.1	10- 20	276.0	387.9	63.9,63.9
30	143.5	149.5	130.3	129.5	128.4	118.0	128.3	141.1	20- 30	189.1	577.0	95.1,95.1
40	7.465	7.831	6.898	7.013	6.986	6.011	5.814	6.875	30- 40	27.09	604.1	99.6,99.6
50	0.8764	0.7345	0.6653	0.6578	0.8620	0.9912	0.8962	0.9955	40- 50	1.507	605.6	99.8,99.8
60	0.4221	0.3406	0.3240	0.3108	0.3724	0.4264	0.3702	0.4136	50- 60	0.5177	606.1	99.9,99.9
70	0.2238	0.1704	0.1727	0.1618	0.1703	0.1833	0.1342	0.1875	60- 70	0.2581	606.4	100,100
80	0.1151	0.0639	0.0958	0.0660	0.0914	0.0661	0.1013	0.0853	70- 80	0.1348	606.5	100,100
90	0.0469	0.0469	0.0426	0.0447	0.0341	0.0341	0.0341	0.0341	80- 90	0.0795	606.6	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	200	360
80	150	125
75	142	99
70	148	114
65	166	127
60	191	147
55	239	183
50	309	235
45	414	313

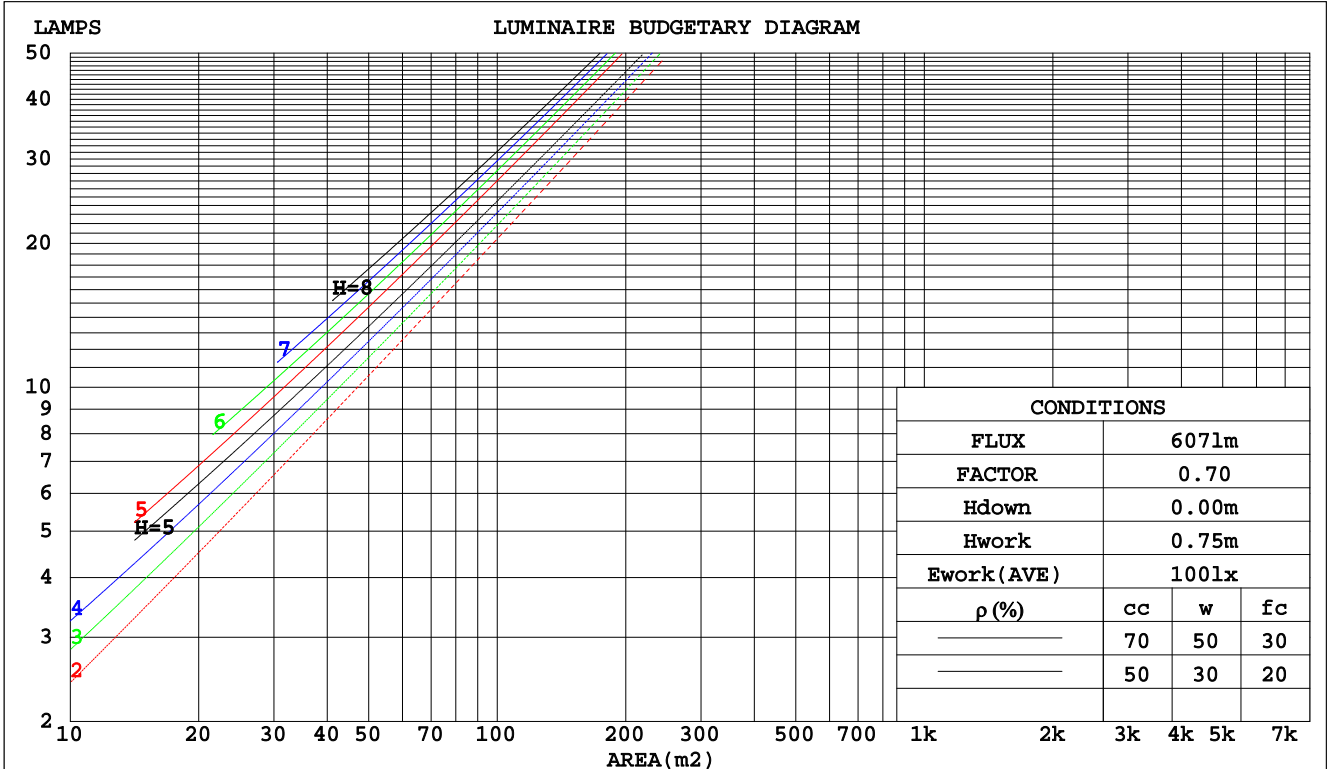
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γ Range: 0 - 90DEG
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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:53.0%
Test Distance:5.850m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.6V I:0.0463A P:8.341W PF:0.8169 Lamp Flux:606.61lx1 lm		
NAME: FF3-7W-830-40D Specular	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L98mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

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	20%			20%			20%			20%			20%			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	.00
1.0	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96
2.0	1.06	1.03	.00	1.04	1.01	.99	1.01	.99	.97	.98	.96	.95	.96	.94	.93	.91
3.0	1.01	.97	.93	.99	.96	.93	.97	.94	.91	.95	.92	.90	.92	.90	.89	.87
4.0	.96	.91	.88	.95	.91	.87	.93	.89	.86	.91	.88	.86	.89	.87	.85	.83
5.0	.91	.87	.83	.91	.86	.83	.89	.85	.82	.87	.84	.82	.86	.83	.81	.80
6.0	.87	.83	.79	.87	.82	.79	.85	.81	.78	.84	.81	.78	.83	.80	.77	.76
7.0	.84	.79	.76	.83	.79	.75	.82	.78	.75	.81	.77	.75	.80	.77	.74	.73
8.0	.80	.75	.72	.80	.75	.72	.79	.75	.72	.78	.74	.71	.77	.74	.71	.70
9.0	.77	.72	.69	.77	.72	.69	.76	.72	.69	.75	.71	.69	.74	.71	.68	.67
10.0	.74	.69	.66	.74	.69	.66	.73	.69	.66	.72	.69	.66	.72	.68	.66	.65



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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	.151	.086	.027	.144	.082	.026	.132	.076	.024	.120	.069	.022	.110	.064	.020	
2.0	.141	.077	.024	.136	.075	.023	.125	.070	.022	.116	.065	.020	.107	.061	.019	
3.0	.133	.071	.021	.128	.069	.021	.120	.065	.020	.112	.061	.019	.104	.058	.018	
4.0	.126	.065	.019	.122	.064	.019	.114	.061	.018	.108	.058	.017	.101	.055	.017	
5.0	.119	.061	.018	.116	.060	.017	.110	.057	.017	.104	.055	.016	.098	.053	.016	
6.0	.114	.057	.016	.111	.056	.016	.105	.054	.016	.100	.052	.015	.095	.050	.015	
7.0	.109	.054	.015	.106	.053	.015	.101	.051	.015	.097	.050	.014	.093	.048	.014	
8.0	.104	.051	.014	.102	.050	.014	.098	.049	.014	.094	.048	.014	.090	.046	.013	
9.0	.100	.048	.014	.098	.048	.013	.094	.047	.013	.091	.046	.013	.087	.044	.013	
10.0	.096	.046	.013	.095	.046	.013	.091	.045	.013	.088	.044	.012	.085	.043	.012	

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	.169	.158	.147	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.152	.133	.116	.130	.114	.100	.089	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.138	.113	.094	.118	.098	.081	.081	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.126	.098	.077	.108	.085	.067	.075	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.117	.086	.064	.100	.075	.055	.069	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.108	.076	.053	.093	.066	.047	.064	.046	.033	.037	.027	.020	.012	.009	.006	
7.0	.101	.069	.045	.087	.059	.040	.060	.042	.028	.035	.025	.017	.011	.008	.006	
8.0	.095	.062	.039	.082	.054	.034	.057	.038	.024	.033	.022	.014	.011	.007	.005	
9.0	.090	.057	.034	.078	.049	.030	.054	.035	.021	.031	.020	.013	.010	.007	.004	
10.0	.086	.052	.030	.074	.045	.026	.051	.032	.018	.030	.019	.011	.010	.006	.004	

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 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity:53.0%
 Test Distance:5.850m [K=1.0000]
 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	7.0	7.7	7.2	7.9	8.1	6.5	7.2	6.7	7.4	7.5
3H	6.8	7.5	7.1	7.7	7.9	6.3	7.0	6.6	7.2	7.4
4H	6.8	7.4	7.0	7.6	7.8	6.2	6.9	6.5	7.1	7.3
6H	6.7	7.3	7.0	7.5	7.8	6.2	6.8	6.4	7.0	7.3
8H	6.6	7.2	6.9	7.5	7.7	6.1	6.7	6.4	7.0	7.2
12H	6.6	7.2	6.9	7.4	7.7	6.1	6.7	6.4	6.9	7.2
4H 2H	6.8	7.4	7.0	7.6	7.8	6.2	6.9	6.5	7.1	7.3
3H	6.6	7.2	6.9	7.4	7.7	6.1	6.7	6.4	6.9	7.2
4H	6.5	7.0	6.8	7.3	7.6	6.0	6.5	6.3	6.8	7.1
6H	6.4	6.9	6.8	7.2	7.5	5.9	6.4	6.3	6.7	7.0
8H	6.4	6.8	6.7	7.1	7.5	5.8	6.3	6.2	6.6	7.0
12H	6.3	6.7	6.7	7.1	7.5	5.8	6.2	6.2	6.6	7.0
8H 4H	6.3	6.8	6.7	7.1	7.5	5.8	6.3	6.2	6.6	7.0
6H	6.2	6.6	6.7	7.0	7.4	5.7	6.1	6.2	6.5	6.9
8H	6.2	6.5	6.6	6.9	7.4	5.7	6.0	6.1	6.4	6.9
12H	6.1	6.4	6.6	6.9	7.3	5.7	6.0	6.1	6.4	6.9
12H 4H	6.3	6.7	6.7	7.1	7.4	5.8	6.2	6.2	6.5	6.9
6H	6.2	6.5	6.6	6.9	7.4	5.7	6.0	6.1	6.4	6.8
8H	6.1	6.4	6.6	6.8	7.3	5.6	5.9	6.1	6.3	6.8
Variations with the observer position at spacings:										
S = 1.0H	+ 4.7 / - 9.1					+ 4.7 / - 9.3				
1.5H	+ 7.4 / - 8.5					+ 7.5 / - 8.7				
2.0H	+ 1.9 / - 1.0					+ 1.1 / - 0.5				

CIE Pub.117 Corrected 606.6 lm Total Lamp Luminous Flux. (8log(F/F0) = -1.7)

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 γ Interval: 1.0DEG
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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	91	86	82	91	86	82	90	85	82	79
0.80	98	93	90	98	93	90	96	92	89	86
1.00	102	97	94	101	97	93	100	96	93	89
1.25	105	101	98	104	100	97	103	99	97	93
1.50	108	104	101	107	103	100	104	101	99	95
2.00	110	106	103	109	105	103	106	103	101	96
2.50	111	108	105	110	107	104	107	104	103	97
3.00	113	110	107	111	108	106	108	106	104	98
4.00	115	112	110	113	111	109	109	107	106	99
5.00	116	114	112	114	112	111	110	109	107	100
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

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ISOCANDELA DIAGRAM

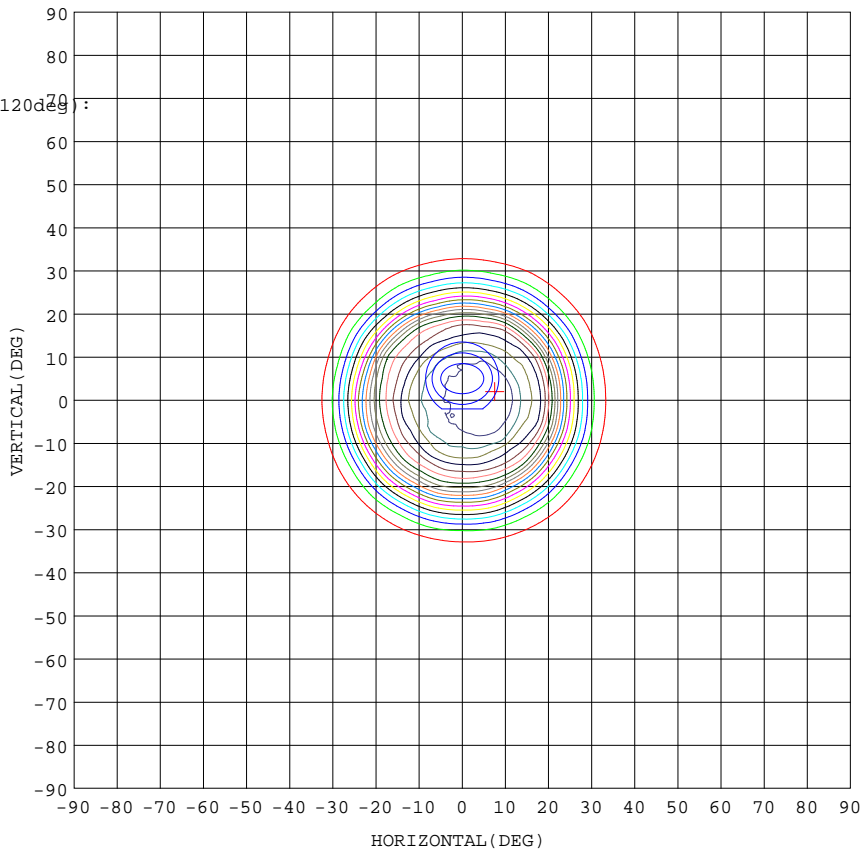
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Conical surface Flux(90deg):

605.22 lm
%lum = 99.8%
%lamp = 99.8%

Conical surface Flux(120deg):

606.14 lm
%lum = 99.9%
%lamp = 99.9%



1. AVG=1181,MIN=1147
2. AVG=1172,MIN=1102
3. AVG=1159,MIN=1025

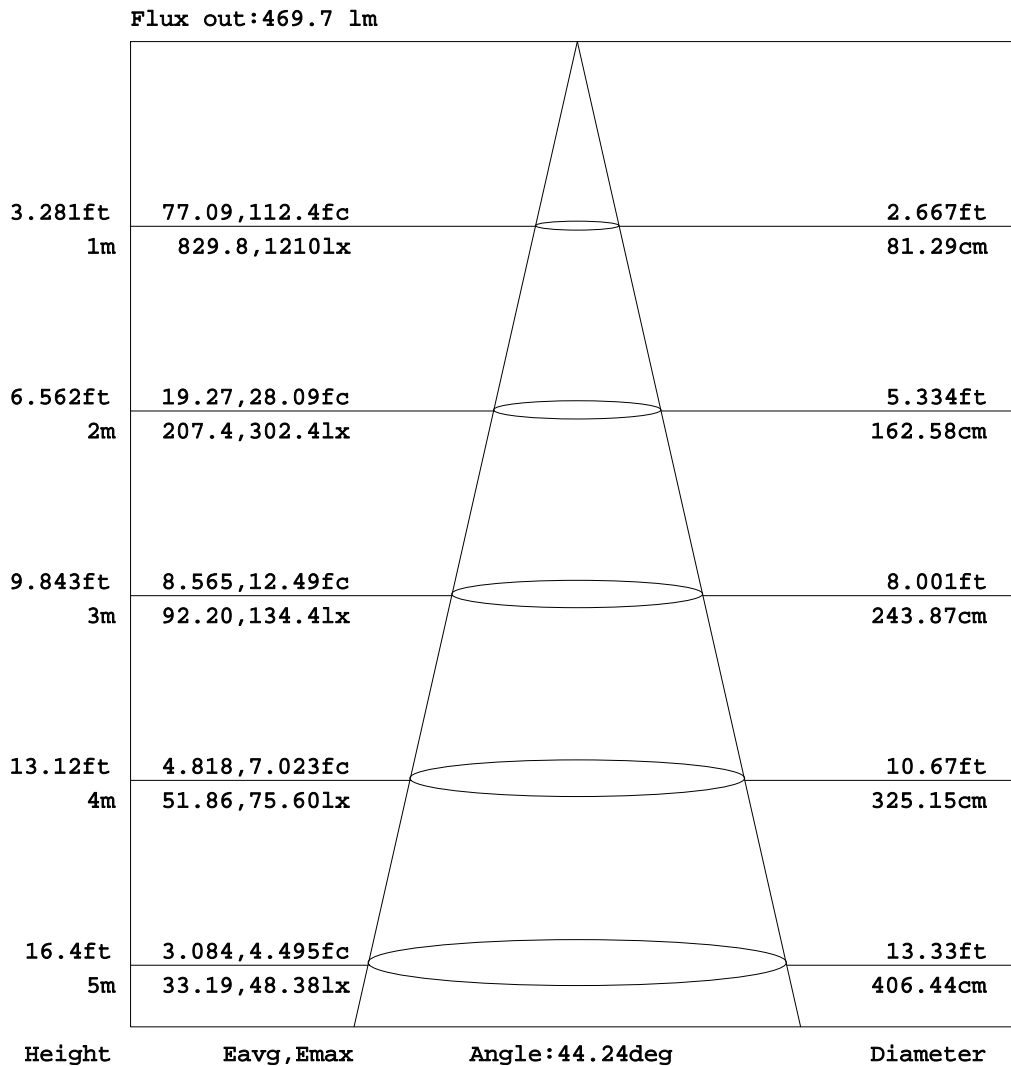
Imax:1228(H7.5,V2.0)
(At:C=345.0,Gamma=8.0)
UNIT: cd

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AAI Figure

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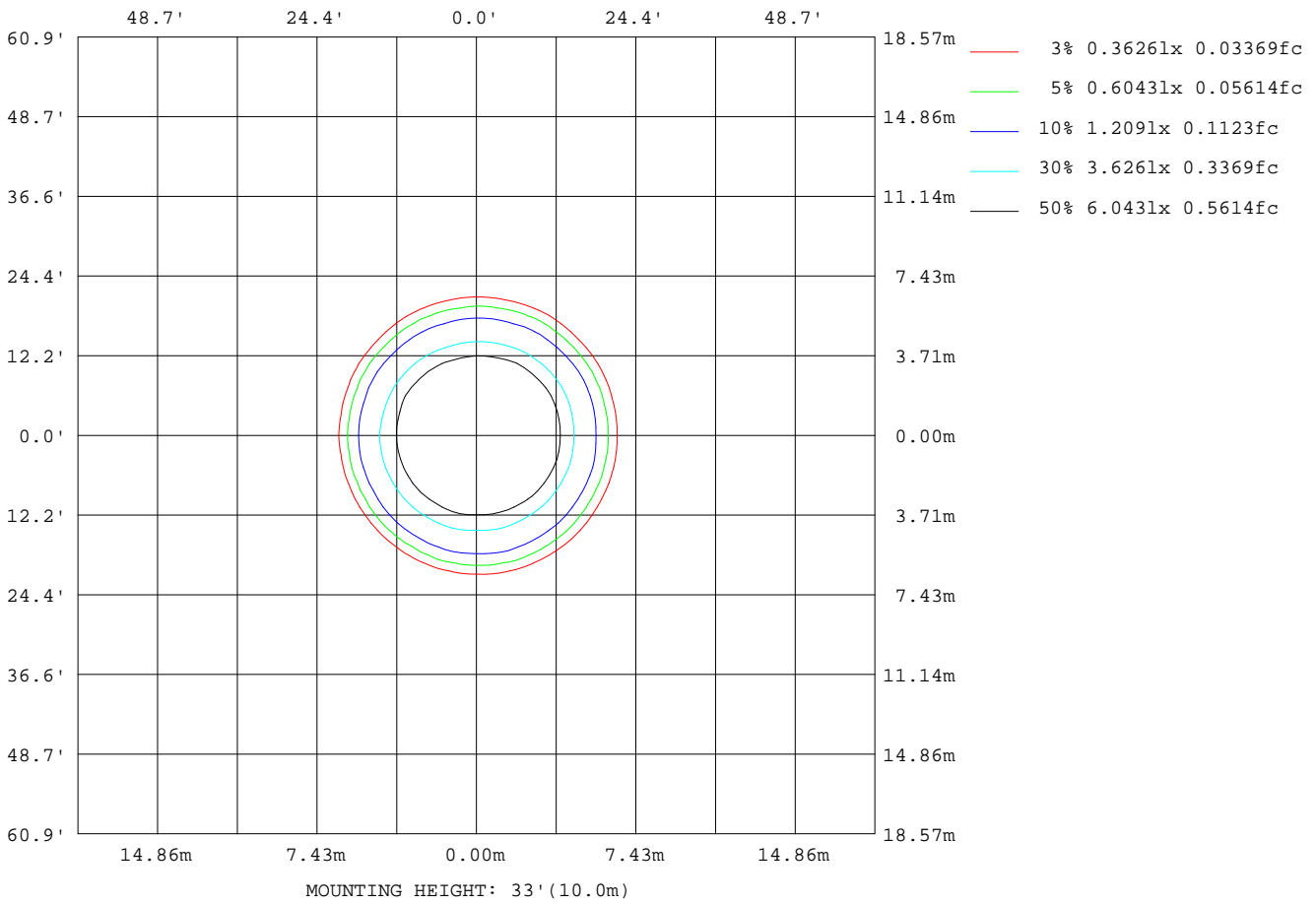
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

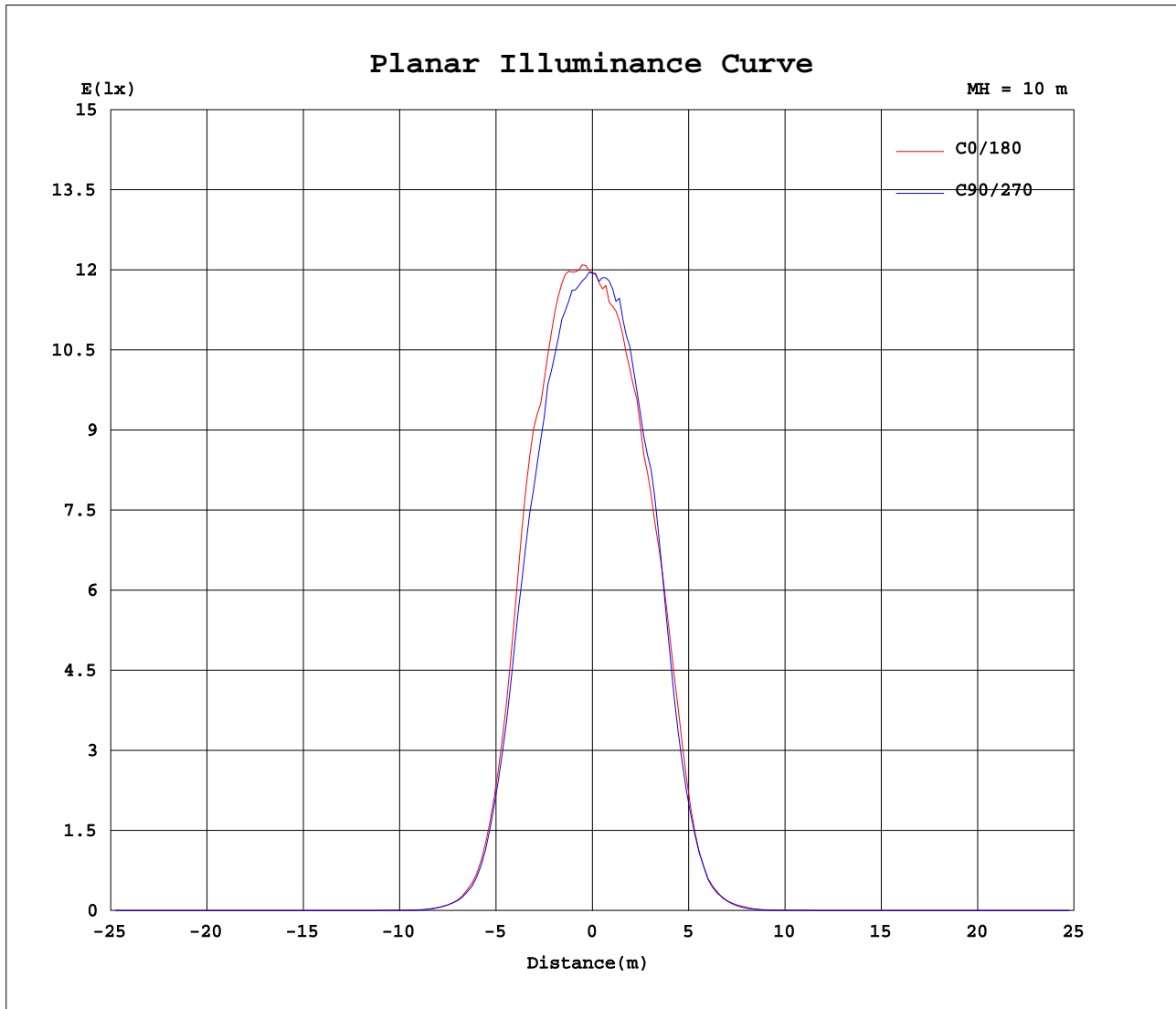
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Planar Illuminance Curve



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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	1194	1194	1195	1194	1195	1194	1194	1190	1190	1186
3.0	1215	1202	1205	1207	1194	1198	1184	1175	1181	1182
6.0	1216	1227	1211	1201	1197	1187	1181	1164	1169	1159
9.0	1219	1210	1205	1190	1173	1159	1149	1145	1124	1110
12.0	1157	1144	1138	1132	1105	1092	1081	1068	1062	1049
15.0	1054	1054	1034	1029	1000	993.1	979.4	977.0	974.5	962.9
18.0	991.1	991.7	945.8	917.1	900.8	870.6	866.7	857.2	850.6	853.5
21.0	784.0	784.1	759.4	747.3	715.7	707.0	692.4	704.3	685.8	695.3
24.0	511.3	518.0	503.1	501.4	481.6	482.6	465.2	477.4	472.1	486.2
27.0	299.2	311.1	303.5	300.6	285.8	288.2	277.7	277.1	268.7	276.1
30.0	143.5	151.6	141.9	149.5	138.7	143.1	130.3	134.4	123.2	129.5
33.0	66.08	66.86	64.91	66.51	63.74	62.45	59.41	56.82	56.31	52.87
36.0	26.50	27.80	27.29	28.06	27.30	27.47	26.47	26.49	25.45	25.58
39.0	10.53	11.02	10.56	11.04	10.55	10.86	10.39	11.26	10.97	11.55
42.0	3.391	3.521	3.361	3.362	3.134	3.147	2.952	3.039	2.879	2.975
45.0	1.292	1.258	1.228	1.132	1.055	1.007	0.9749	0.9641	0.9578	0.9919
48.0	1.021	0.9643	0.9403	0.8643	0.8166	0.7749	0.7632	0.7324	0.7547	0.7579
51.0	0.8145	0.7557	0.7420	0.6833	0.6568	0.6216	0.6184	0.5876	0.6119	0.6110
54.0	0.6546	0.6004	0.5906	0.5429	0.5266	0.4939	0.4968	0.4684	0.4904	0.4854
57.0	0.5223	0.4748	0.4712	0.4258	0.4221	0.3917	0.3966	0.3704	0.3902	0.3853
60.0	0.4221	0.3833	0.3859	0.3406	0.3411	0.3130	0.3240	0.2938	0.3155	0.3108
63.0	0.3475	0.3172	0.3177	0.2810	0.2836	0.2576	0.2686	0.2406	0.2580	0.2533
66.0	0.2878	0.2598	0.2707	0.2299	0.2388	0.2108	0.2217	0.1959	0.2195	0.2087
69.0	0.2387	0.2108	0.2238	0.1852	0.2004	0.1725	0.1854	0.1618	0.1854	0.1746
72.0	0.1982	0.1703	0.1834	0.1469	0.1642	0.1362	0.1514	0.1277	0.1513	0.1405
75.0	0.1620	0.1405	0.1535	0.1171	0.1259	0.0979	0.1131	0.0916	0.1215	0.1256
78.0	0.1300	0.1064	0.1173	0.0851	0.0960	0.0896	0.0895	0.0832	0.0895	0.0872
81.0	0.1024	0.0787	0.0938	0.0596	0.0788	0.1237	0.1106	0.1747	0.0725	0.0618
84.0	0.0832	0.0616	0.0556	0.0575	0.1062	0.1470	0.1384	0.2754	0.0999	0.0618
87.0	0.0598	0.0426	0.0384	0.0574	0.0605	0.0426	0.0432	0.0426	0.0499	0.0532
90.0	0.0469	0.0469	0.0447	0.0469	0.0426	0.0426	0.0426	0.0426	0.0447	0.0447
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	1184	1194	1194	1194	1195	1194	1195	1194	1194	1190
3.0	1169	1166	1169	1168	1178	1170	1182	1188	1191	1200
6.0	1134	1151	1151	1153	1162	1154	1171	1161	1184	1193
9.0	1106	1101	1119	1116	1121	1123	1126	1129	1150	1158
12.0	1039	1041	1052	1053	1068	1068	1062	1069	1086	1098
15.0	950.5	956.4	946.1	948.1	950.0	955.4	971.8	963.6	984.7	1003
18.0	841.5	841.1	844.1	858.6	870.9	862.4	874.7	872.5	898.5	906.4
21.0	694.0	700.0	702.8	703.1	727.3	696.9	689.0	668.0	677.5	695.3
24.0	481.7	492.4	498.1	472.7	469.3	456.1	442.1	421.6	439.1	454.8
27.0	266.4	271.9	274.8	267.5	273.6	257.7	254.7	246.0	256.2	259.7
30.0	119.2	125.0	128.4	119.6	128.5	118.0	125.1	117.5	128.3	127.3
33.0	51.30	51.78	54.31	54.17	56.07	55.85	57.50	56.30	58.66	59.06
36.0	24.66	25.47	26.10	24.73	24.75	23.34	23.80	22.79	24.06	24.23
39.0	10.74	11.01	11.42	9.953	9.589	8.652	8.474	7.864	8.259	8.472
42.0	2.866	3.020	3.262	3.115	3.082	2.754	2.655	2.428	2.559	2.623
45.0	1.030	1.109	1.269	1.363	1.362	1.320	1.220	1.149	1.126	1.198
48.0	0.8080	0.8686	1.005	1.100	1.113	1.117	1.056	1.021	0.9879	1.027
51.0	0.6525	0.6982	0.7981	0.8868	0.9003	0.9231	0.8876	0.8739	0.8451	0.8697
54.0	0.5224	0.5535	0.6258	0.6992	0.7130	0.7397	0.7109	0.7141	0.6853	0.7077
57.0	0.4179	0.4343	0.4810	0.5415	0.5469	0.5671	0.5405	0.5479	0.5150	0.5394
60.0	0.3432	0.3470	0.3724	0.4157	0.4128	0.4264	0.3979	0.4008	0.3702	0.3987
63.0	0.2899	0.2874	0.2937	0.3262	0.3149	0.3241	0.2957	0.2879	0.2638	0.2921
66.0	0.2515	0.2406	0.2299	0.2601	0.2405	0.2537	0.2174	0.2174	0.1979	0.2239
69.0	0.2195	0.2023	0.1831	0.2068	0.1916	0.2004	0.1638	0.1705	0.1489	0.1769
72.0	0.1918	0.1768	0.1533	0.1748	0.1469	0.1535	0.1192	0.1364	0.1170	0.1449
75.0	0.1705	0.1639	0.1363	0.1556	0.1255	0.1194	0.0873	0.1087	0.0894	0.1130
78.0	0.1365	0.1319	0.1043	0.1173	0.0809	0.0853	0.0660	0.0810	0.0853	0.0874
81.0	0.1003	0.0852	0.0766	0.0874	0.0468	0.0555	0.0704	0.1419	0.1065	0.1111
84.0	0.0620	0.0596	0.0552	0.0576	0.0341	0.0511	0.1129	0.1536	0.1221	0.1468
87.0	0.0426	0.0448	0.0341	0.0362	0.0383	0.0511	0.0362	0.0392	0.0341	0.0393
90.0	0.0639	0.0575	0.0341	0.0341	0.0362	0.0341	0.0341	0.0341	0.0341	0.0362
G/C	300.0	315.0	330.0	345.0						
0.0	1190	1186	1184	1184						
3.0	1195	1197	1197	1195						
6.0	1192	1218	1229	1211						
9.0	1179	1195	1208	1222						
12.0	1120	1132	1145	1154						
15.0	1031	1052	1059	1063						
18.0	958.1	977.4	986.6	989.9						
21.0	752.8	763.0	798.3	788.3						

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Cao Chengpei

Test Date: 2016-06-24

γ Range: 0 - 90DEG

γ Interval: 1.0DEG

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

Humidity: 53.0%

Test Distance: 5.850m [K=1.0000]

Remarks:

Photometric Data Table [cd]

24.0	482.6	504.3	524.9	522.2
27.0	282.6	295.3	311.0	307.5
30.0	142.8	141.1	154.2	146.8
33.0	64.60	63.86	66.72	66.13
36.0	26.68	26.88	28.18	27.21
39.0	9.853	10.06	10.87	10.75
42.0	3.022	3.183	3.527	3.453
45.0	1.296	1.398	1.415	1.343
48.0	1.084	1.142	1.141	1.085
51.0	0.8961	0.9252	0.9194	0.8719
54.0	0.7173	0.7312	0.7194	0.6992
57.0	0.5405	0.5522	0.5469	0.5500
60.0	0.3936	0.4136	0.4107	0.4327
63.0	0.2830	0.3113	0.3150	0.3517
66.0	0.2107	0.2430	0.2448	0.2878
69.0	0.1660	0.1961	0.1958	0.2345
72.0	0.1341	0.1620	0.1533	0.1919
75.0	0.1000	0.1343	0.1277	0.1535
78.0	0.0746	0.1087	0.0958	0.1215
81.0	0.0768	0.0704	0.0681	0.0959
84.0	0.1066	0.0554	0.0362	0.0725
87.0	0.0552	0.0533	0.0341	0.0384
90.0	0.0341	0.0341	0.0362	0.0341

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Cao Chengpei
Test Date: 2016-06-24

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 53.0%
Test Distance: 5.850m [K=1.0000]
Remarks: