

LED Downlight FUSION Series FS2-4W-840-30D



Light Output Ratio:	100.0%	
Luminaire Power:	5.47 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.50	fine grid method.

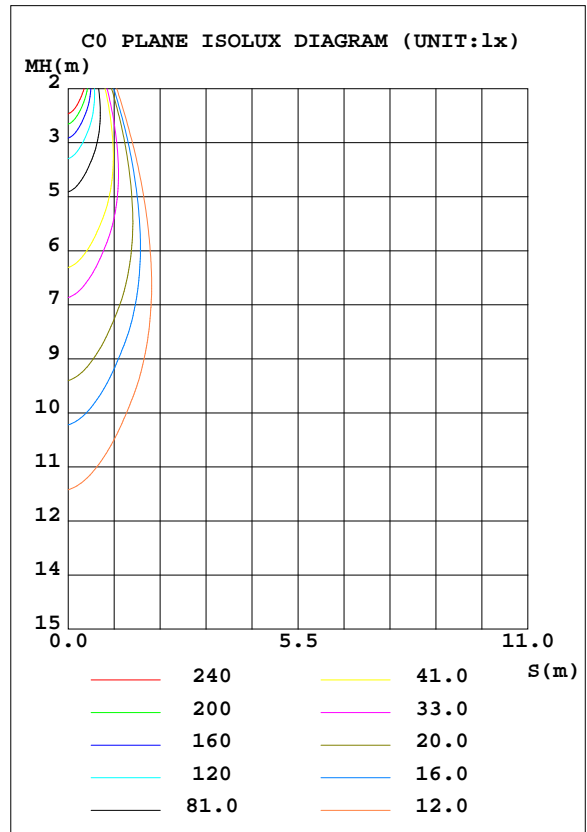
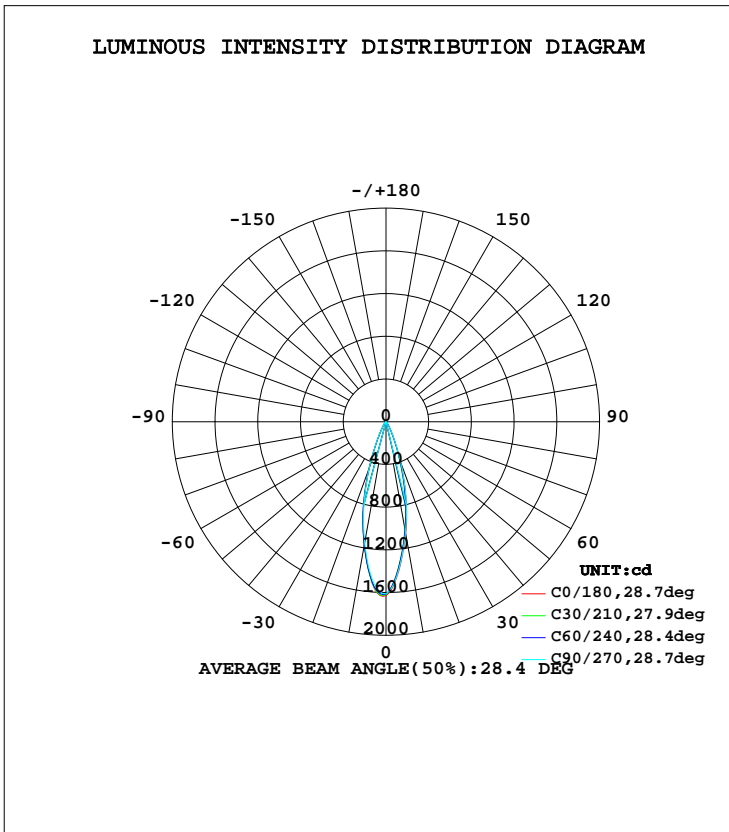
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-06-09

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.8V I:0.0319A P:5.470W PF:0.7769 Lamp Flux:478.206x1 lm		
NAME: FS2-4W-840-30D	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L98mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	CREE-4000K	Imax(cd)	1635	S/MH(C0/180)	0.50
NOMINAL POWER(W)	6.0	LOR(%)	100.0	S/MH(C90/270)	0.49
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	478.21	η UP, DN(C0-180)	0.0, 48.5
NOMINAL FLUX(lm)	478.206	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 51.5
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	0.50



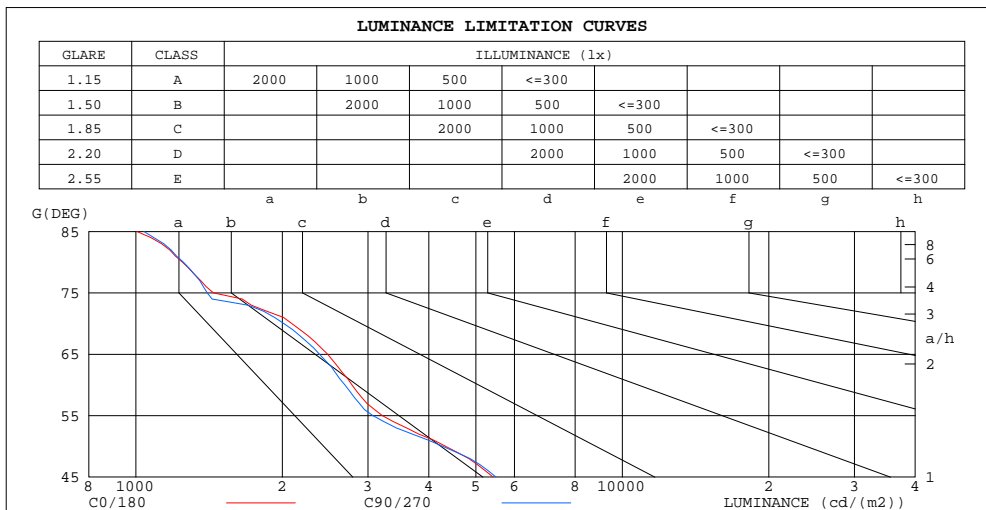
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 Remarks:

**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum, lamp
10	1066	1024	1053	1114	1173	1159	1150	1070	0- 10	126.0	126.0	26.4,26.4
20	392.5	368.1	402.7	430.6	467.4	445.6	455.8	391.3	10- 20	203.4	329.4	68.9,68.9
30	76.05	77.90	82.42	83.73	88.72	86.67	92.49	77.73	20- 30	92.73	422.2	88.3,88.3
40	22.78	22.09	22.76	24.04	26.78	25.98	25.87	23.10	30- 40	27.43	449.6	94,94
50	12.29	12.25	12.13	13.13	14.10	13.74	13.23	12.09	40- 50	13.82	463.4	96.9,96.9
60	6.134	5.964	5.931	6.130	6.619	6.370	6.317	6.102	50- 60	7.752	471.2	98.5,98.5
70	3.158	3.050	3.040	3.162	3.399	3.369	3.355	3.155	60- 70	4.580	475.7	99.5,99.5
80	0.9547	0.9369	0.9590	1.011	1.044	1.040	1.011	0.9412	70- 80	1.988	477.7	99.9,99.9
90	0.0262	0.0219	0.0219	0.0241	0.0350	0.0284	0.0153	0.0175	80- 90	0.4715	478.2	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		



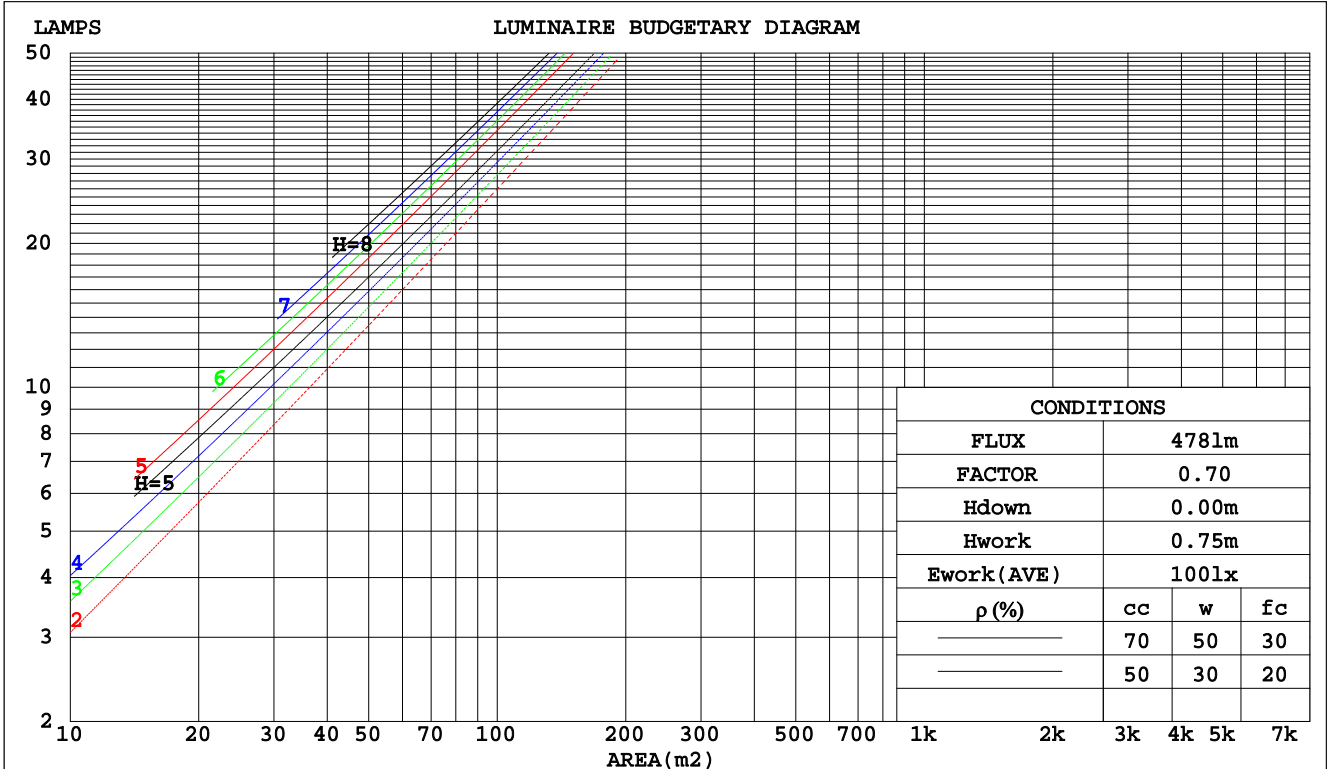
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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NAME: FS2-4W-840-30D	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	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																
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	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.04	1.03	1.02	1.01	.00	.99	.98	.97	.95
2.0	1.06	1.02	.99	1.04	1.01	.98	1.01	.98	.96	.98	.96	.94	.95	.94	.92	.91
3.0	1.00	.96	.93	.99	.95	.92	.96	.93	.91	.94	.91	.89	.92	.90	.88	.87
4.0	.95	.91	.87	.94	.90	.87	.92	.89	.86	.90	.87	.85	.89	.86	.84	.83
5.0	.91	.86	.83	.90	.86	.83	.89	.85	.82	.87	.84	.81	.86	.83	.81	.79
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	.76	.82	.78	.75	.81	.77	.75	.80	.77	.74	.73
8.0	.81	.76	.73	.80	.76	.73	.79	.75	.72	.78	.75	.72	.77	.74	.72	.71
9.0	.78	.73	.70	.77	.73	.70	.77	.73	.70	.76	.72	.69	.75	.72	.69	.68
10.0	.75	.71	.68	.75	.70	.67	.74	.70	.67	.73	.70	.67	.73	.69	.67	.66



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 Humidity: 52%
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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	.155	.088	.028	.148	.085	.027	.136	.078	.025	.124	.072	.023	.114	.066	.021	
2.0	.145	.080	.024	.140	.077	.024	.129	.072	.022	.120	.067	.021	.111	.063	.020	
3.0	.136	.072	.022	.131	.070	.021	.123	.066	.020	.114	.063	.019	.107	.059	.018	
4.0	.128	.066	.020	.124	.065	.019	.116	.062	.018	.109	.059	.018	.103	.056	.017	
5.0	.121	.061	.018	.117	.060	.018	.111	.058	.017	.105	.055	.016	.099	.053	.016	
6.0	.114	.057	.016	.111	.056	.016	.106	.054	.016	.100	.052	.015	.096	.050	.015	
7.0	.108	.054	.015	.106	.053	.015	.101	.051	.015	.096	.049	.014	.092	.048	.014	
8.0	.103	.050	.014	.101	.050	.014	.097	.048	.014	.093	.047	.014	.089	.046	.013	
9.0	.099	.048	.013	.097	.047	.013	.093	.046	.013	.089	.045	.013	.086	.044	.013	
10.0	.094	.045	.013	.093	.045	.012	.089	.044	.012	.086	.043	.012	.083	.042	.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	.170	.158	.147	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.153	.133	.116	.131	.114	.100	.090	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.139	.113	.093	.119	.098	.081	.082	.068	.057	.047	.040	.033	.015	.013	.011	
4.0	.127	.098	.076	.109	.085	.066	.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	.109	.076	.053	.093	.066	.047	.064	.046	.033	.037	.027	.020	.012	.009	.006	
7.0	.101	.069	.046	.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	.089	.056	.034	.077	.049	.030	.053	.034	.021	.031	.020	.013	.010	.007	.004	
10.0	.085	.052	.030	.073	.045	.026	.051	.032	.019	.029	.019	.011	.010	.006	.004	

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γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity:52%
 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	10.6	11.3	10.8	11.5	11.6	10.5	11.3	10.7	11.4	11.6
3H	11.1	11.8	11.4	12.0	12.2	11.0	11.8	11.3	11.9	12.1
4H	11.3	11.9	11.5	12.1	12.4	11.2	11.8	11.4	12.1	12.3
6H	11.3	12.0	11.6	12.2	12.4	11.2	11.9	11.5	12.1	12.3
8H	11.3	12.0	11.6	12.2	12.5	11.3	11.9	11.6	12.1	12.4
12H	11.3	11.9	11.6	12.2	12.5	11.2	11.8	11.6	12.1	12.4
4H 2H	10.7	11.4	11.0	11.6	11.8	10.7	11.4	11.0	11.6	11.8
3H	11.4	12.0	11.8	12.3	12.6	11.4	12.0	11.7	12.2	12.5
4H	11.6	12.2	12.0	12.5	12.8	11.5	12.1	11.9	12.4	12.7
6H	11.8	12.2	12.1	12.6	12.9	11.7	12.1	12.0	12.5	12.8
8H	11.8	12.2	12.2	12.6	12.9	11.7	12.1	12.1	12.5	12.8
12H	11.8	12.2	12.2	12.6	12.9	11.7	12.1	12.1	12.5	12.9
8H 4H	11.6	12.1	12.0	12.4	12.8	11.5	12.0	11.9	12.3	12.7
6H	11.8	12.2	12.2	12.6	13.0	11.7	12.1	12.2	12.5	12.9
8H	11.9	12.2	12.3	12.6	13.1	11.8	12.1	12.2	12.5	13.0
12H	11.9	12.2	12.4	12.6	13.1	11.8	12.1	12.3	12.5	13.0
12H 4H	11.6	12.0	12.0	12.4	12.8	11.5	11.9	11.9	12.3	12.7
6H	11.8	12.1	12.2	12.5	13.0	11.7	12.0	12.2	12.4	12.9
8H	11.9	12.1	12.3	12.6	13.1	11.8	12.1	12.3	12.5	13.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 1.1					+ 0.8 / - 1.1				
1.5H	+ 1.1 / - 0.8					+ 1.1 / - 0.9				
2.0H	+ 1.7 / - 1.0					+ 1.8 / - 1.0				

CIE Pub.117 Corrected 478.2 lm Total Lamp Luminous Flux. (8log(F/F0) = -2.6)

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γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
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 Humidity:52%
 Test Distance:5.850m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.8V I:0.0319A P:5.470W PF:0.7769 Lamp Flux:478.206x1 lm		
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SPEC.:4000K	DIM.: L98mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

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	88	82	78	87	81	78	87	81	78	74
0.80	95	89	86	94	89	86	93	88	85	82
1.00	99	94	90	99	93	90	97	93	89	86
1.25	103	98	95	102	98	94	100	96	94	89
1.50	106	101	98	105	101	97	103	99	96	92
2.00	109	104	101	107	103	100	104	101	99	94
2.50	110	106	104	109	105	103	106	103	101	95
3.00	112	108	106	110	107	105	107	104	102	96
4.00	114	111	109	112	109	108	108	106	105	98
5.00	115	113	111	113	111	109	109	108	106	99
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

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ISOCANDELA DIAGRAM

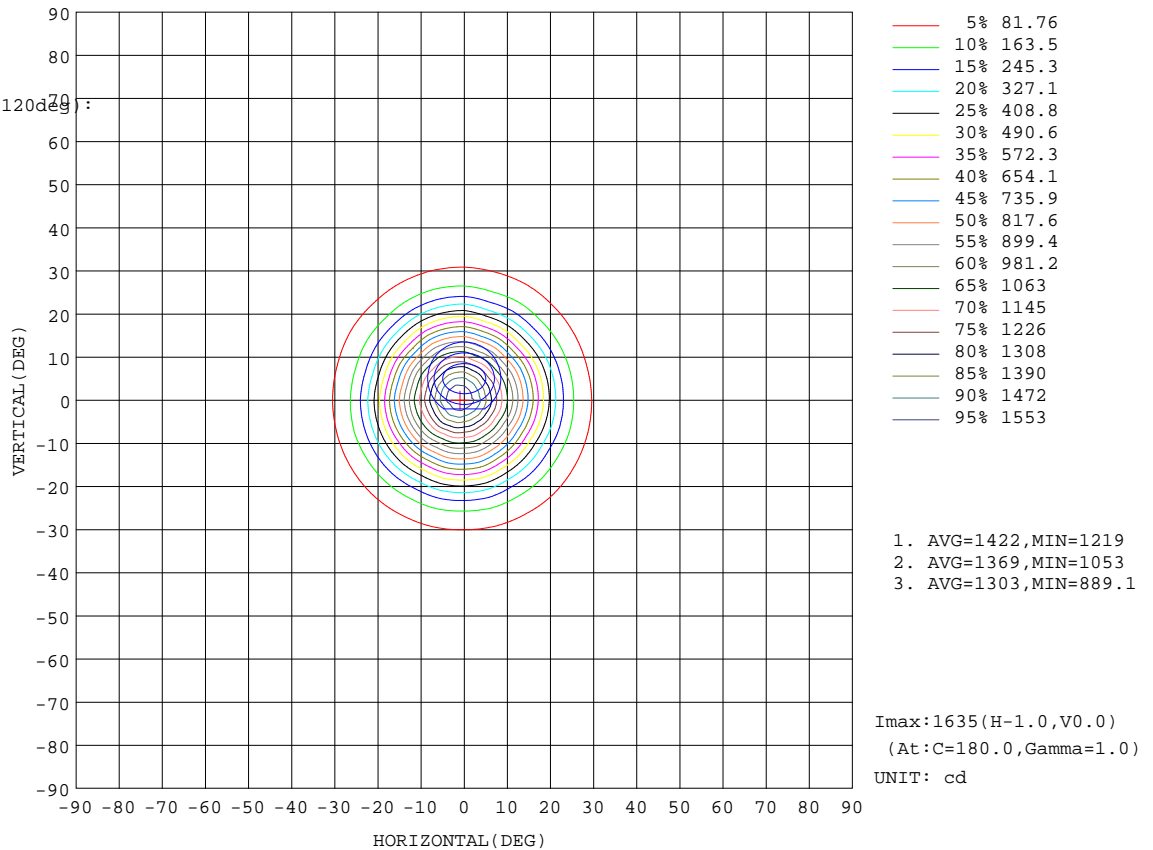
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Conical surface Flux(90deg):

457.22 lm
%lum = 95.6%
%lamp = 95.6%

Conical surface Flux(120deg):

471.17 lm
%lum = 98.5%
%lamp = 98.5%



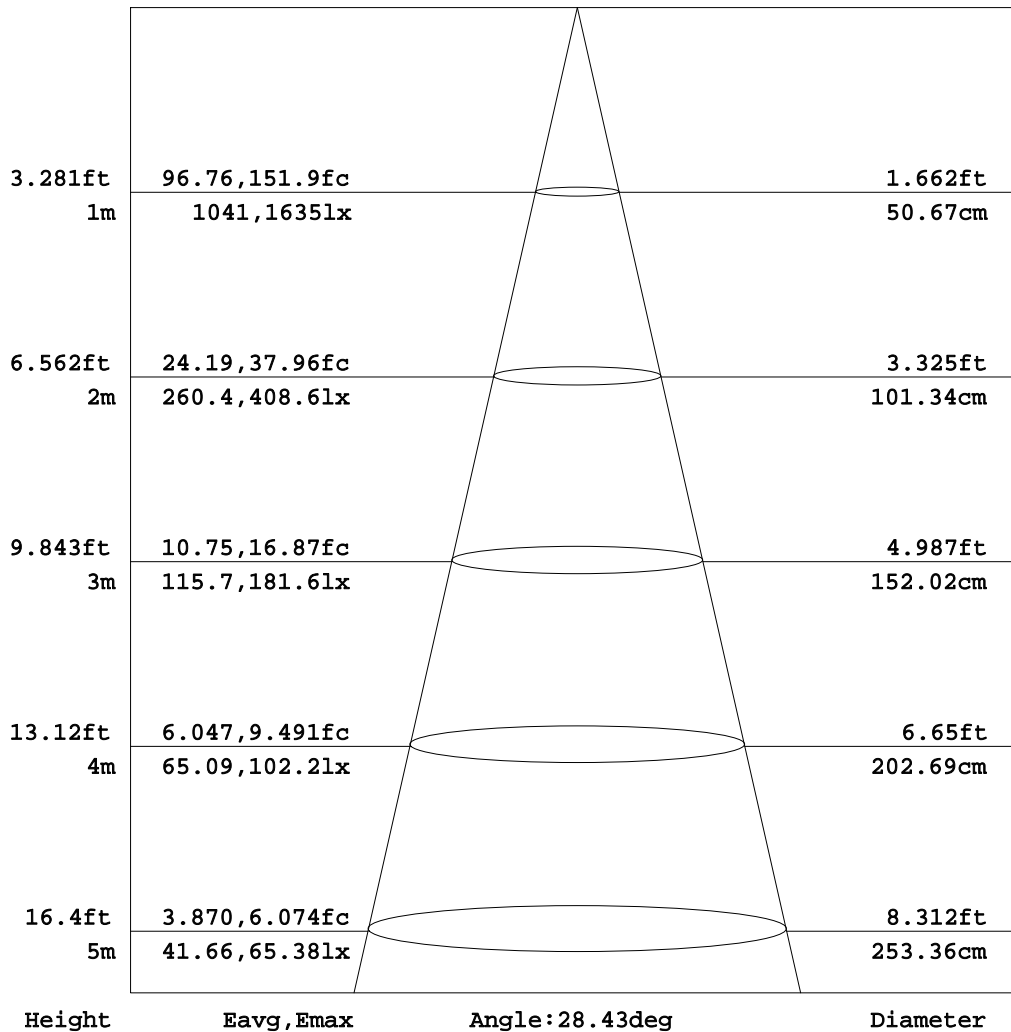
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AAI Figure

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Flux out:234.9 lm



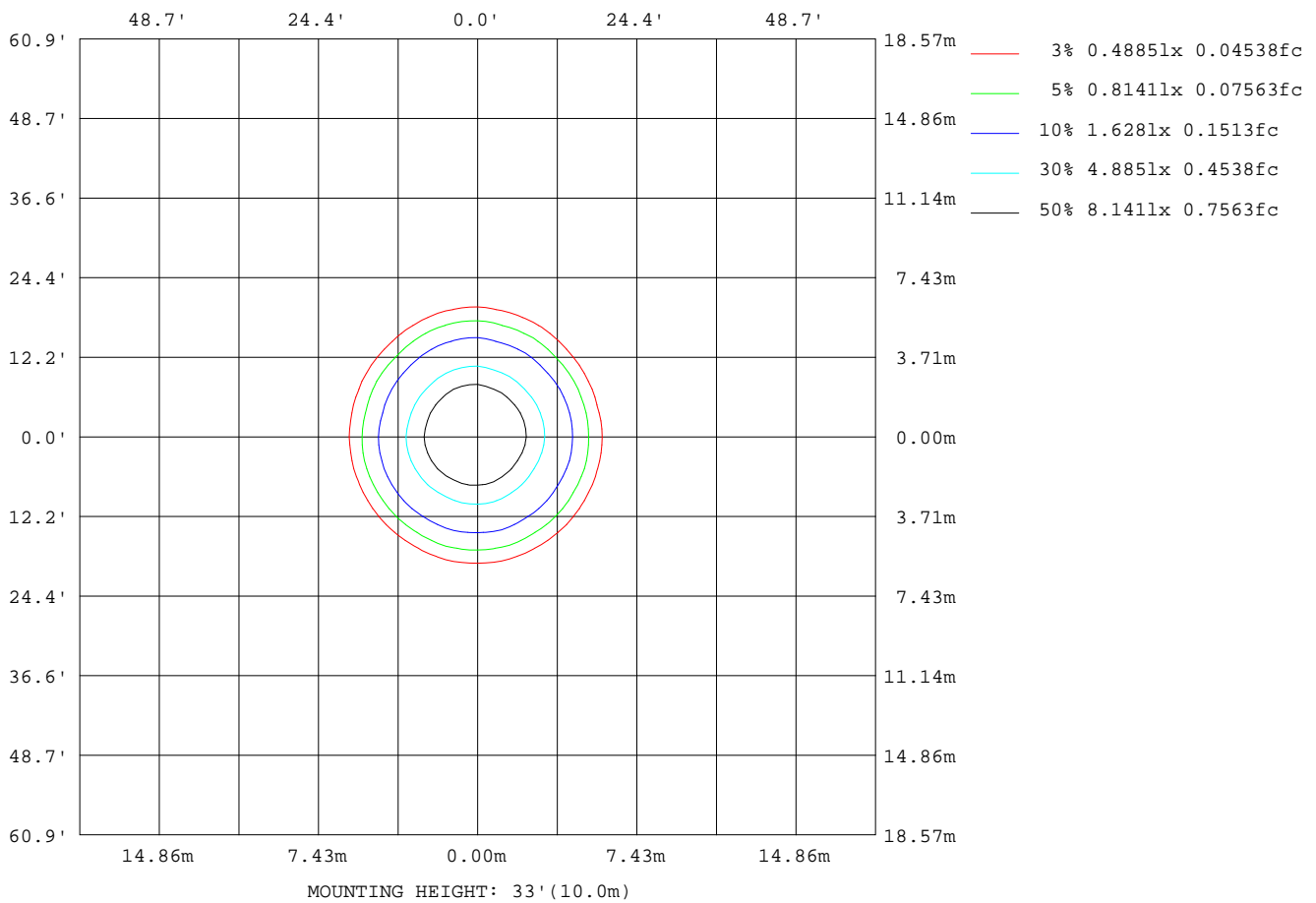
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

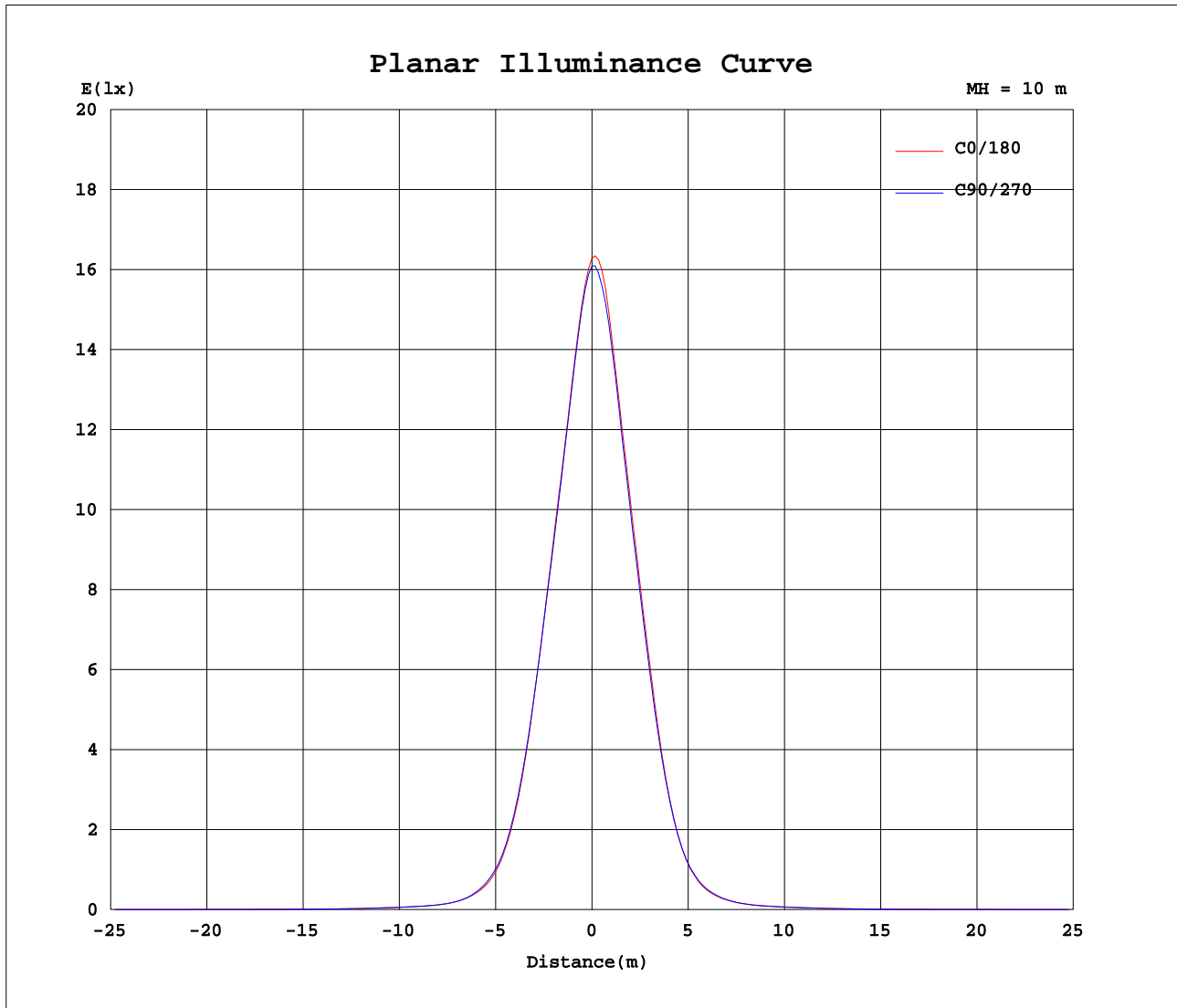
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Planar Illuminance Curve



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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	1628	1625	1619	1618	1612	1611	1609	1610	1609	1607
3.0	1517	1511	1496	1498	1491	1503	1507	1534	1541	1560
6.0	1331	1321	1302	1306	1301	1316	1321	1352	1364	1396
9.0	1129	1118	1092	1096	1093	1114	1118	1143	1150	1187
12.0	931.3	914.1	886.9	889.9	895.5	916.4	922.7	940.9	943.0	976.5
15.0	722.2	701.8	677.8	682.9	688.1	718.8	722.6	736.9	735.8	767.0
18.0	515.7	500.8	477.1	485.5	491.8	516.1	522.4	532.8	530.7	558.0
21.0	337.5	329.1	314.4	320.2	322.0	343.1	348.8	357.0	352.6	372.8
24.0	208.5	205.6	197.8	202.0	203.2	215.2	216.8	223.3	220.0	230.8
27.0	123.3	125.5	121.4	125.7	125.0	134.2	132.8	138.6	134.4	140.0
30.0	76.05	75.91	75.57	77.90	78.15	81.61	82.42	83.78	82.71	83.73
33.0	49.64	49.45	48.37	50.32	49.27	50.42	50.77	52.16	50.68	51.85
36.0	33.59	33.23	32.26	32.36	31.87	33.75	33.50	34.41	33.54	34.39
39.0	24.55	24.29	23.91	23.84	24.10	24.91	24.74	25.16	25.16	25.88
42.0	19.91	19.81	19.64	19.52	19.77	20.44	20.20	20.70	20.69	21.15
45.0	16.92	17.05	16.96	16.83	16.77	17.13	17.15	17.66	17.79	18.10
48.0	14.26	14.42	14.30	14.29	14.06	14.20	14.36	14.91	15.09	15.27
51.0	11.37	11.42	11.25	11.21	11.00	11.02	11.08	11.57	11.73	12.01
54.0	8.779	8.787	8.595	8.486	8.413	8.396	8.395	8.616	8.734	8.969
57.0	7.170	7.188	7.045	7.011	6.984	6.937	6.920	7.053	6.996	7.179
60.0	6.134	6.102	5.942	5.964	5.922	5.955	5.931	6.034	6.029	6.130
63.0	5.205	5.142	5.002	4.989	4.956	5.050	5.048	5.079	5.046	5.155
66.0	4.315	4.264	4.153	4.128	4.094	4.117	4.164	4.242	4.136	4.246
69.0	3.438	3.426	3.328	3.312	3.289	3.255	3.320	3.404	3.307	3.424
72.0	2.534	2.570	2.503	2.524	2.500	2.448	2.496	2.606	2.522	2.683
75.0	1.649	1.641	1.617	1.606	1.594	1.591	1.600	1.628	1.640	1.678
78.0	1.211	1.201	1.195	1.195	1.195	1.193	1.211	1.236	1.252	1.269
81.0	0.8321	0.8189	0.8212	0.8146	0.8190	0.8167	0.8365	0.8582	0.8759	0.8867
84.0	0.4955	0.4800	0.4889	0.4778	0.4889	0.4800	0.5021	0.5172	0.5392	0.5434
87.0	0.1870	0.1699	0.1848	0.1699	0.1870	0.1742	0.2001	0.2048	0.2329	0.2310
90.0	0.0262	0.0241	0.0241	0.0219	0.0219	0.0219	0.0219	0.0219	0.0284	0.0241
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	1605	1601	1628	1625	1619	1618	1612	1611	1609	1610
3.0	1564	1571	1604	1600	1602	1592	1589	1574	1565	1547
6.0	1404	1412	1445	1441	1448	1442	1444	1432	1422	1389
9.0	1198	1215	1241	1233	1241	1232	1245	1234	1217	1176
12.0	997.0	1019	1034	1019	1029	1017	1032	1023	1009	966.3
15.0	785.4	805.7	822.6	800.7	807.9	798.7	818.3	809.6	800.0	758.2
18.0	572.2	595.4	606.6	583.6	587.2	578.1	595.8	593.1	586.6	547.9
21.0	384.7	395.2	403.8	385.1	387.8	385.9	397.6	398.5	396.6	355.5
24.0	238.8	244.8	248.8	236.5	238.5	235.2	246.7	249.7	248.3	223.0
27.0	141.6	150.7	147.1	142.2	145.4	140.8	148.4	152.3	149.5	136.5
30.0	84.58	87.04	88.72	87.25	88.33	86.67	90.26	93.23	92.49	87.75
33.0	53.22	53.87	57.14	56.35	56.87	56.60	58.64	60.31	60.27	55.42
36.0	35.59	36.99	39.25	38.56	38.88	38.76	40.09	39.96	40.07	36.86
39.0	26.42	27.51	28.95	28.28	28.63	28.23	28.54	28.72	28.38	26.86
42.0	21.55	22.48	23.54	23.04	23.00	22.62	22.51	22.54	22.05	20.87
45.0	18.38	18.88	19.71	19.48	19.48	18.79	18.69	18.56	18.25	17.35
48.0	15.42	15.66	16.46	16.41	16.40	15.81	15.56	15.31	15.28	14.53
51.0	12.04	12.24	12.96	12.91	13.06	12.63	12.40	12.16	12.14	11.61
54.0	9.003	9.193	9.719	9.643	9.755	9.496	9.315	9.109	9.237	8.852
57.0	7.181	7.341	7.755	7.626	7.582	7.502	7.408	7.272	7.429	7.186
60.0	6.101	6.224	6.619	6.481	6.475	6.370	6.330	6.190	6.317	6.120
63.0	5.194	5.289	5.580	5.502	5.547	5.450	5.351	5.274	5.371	5.206
66.0	4.339	4.439	4.588	4.544	4.557	4.509	4.438	4.410	4.505	4.345
69.0	3.530	3.579	3.683	3.638	3.628	3.658	3.611	3.536	3.652	3.542
72.0	2.719	2.719	2.879	2.808	2.784	2.775	2.774	2.699	2.797	2.683
75.0	1.745	1.858	2.053	1.920	1.919	1.796	1.771	1.728	1.704	1.652
78.0	1.278	1.274	1.315	1.313	1.306	1.302	1.295	1.296	1.278	1.241
81.0	0.8999	0.8866	0.9147	0.9171	0.9103	0.9127	0.9038	0.9040	0.8819	0.8559
84.0	0.5611	0.5456	0.5627	0.5717	0.5584	0.5652	0.5496	0.5564	0.5299	0.5127
87.0	0.2504	0.2267	0.2351	0.2480	0.2307	0.2415	0.2220	0.2349	0.2089	0.1977
90.0	0.0350	0.0350	0.0350	0.0372	0.0306	0.0284	0.0219	0.0197	0.0153	0.0153
G/C	300.0	315.0	330.0	345.0						
0.0	1609	1607	1605	1601						
3.0	1540	1520	1515	1503						
6.0	1375	1342	1339	1325						
9.0	1167	1139	1139	1132						
12.0	959.0	934.0	938.1	934.9						
15.0	752.3	724.0	729.7	724.2						
18.0	538.0	514.4	520.1	518.0						
21.0	348.5	337.0	341.3	340.0						

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Meng Yongjian

Test Date: 2017-06-09

γ Range: 0 - 90DEG

γ Interval: 1.0DEG

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

Humidity: 52%

Test Distance: 5.850m [K=1.0000]

Remarks:

Photometric Data Table [cd]

24.0	221.9	205.6	207.8	207.0
27.0	136.1	125.1	125.3	122.0
30.0	83.65	77.73	75.44	74.18
33.0	54.10	49.67	49.18	48.31
36.0	35.94	34.04	33.64	33.04
39.0	25.94	25.15	24.96	24.41
42.0	20.50	20.05	19.98	19.73
45.0	16.97	16.58	16.64	16.48
48.0	14.30	13.94	13.89	13.78
51.0	11.51	11.14	11.15	10.99
54.0	8.779	8.582	8.610	8.495
57.0	7.178	7.057	7.023	6.945
60.0	6.145	6.102	6.046	5.982
63.0	5.242	5.189	5.180	5.101
66.0	4.376	4.306	4.300	4.214
69.0	3.504	3.422	3.443	3.361
72.0	2.660	2.609	2.578	2.494
75.0	1.645	1.611	1.608	1.615
78.0	1.221	1.195	1.177	1.184
81.0	0.8317	0.8187	0.8011	0.8165
84.0	0.4884	0.4821	0.4665	0.4842
87.0	0.1761	0.1736	0.1565	0.1823
90.0	0.0153	0.0175	0.0153	0.0197

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng Yongjian
 Test Date: 2017-06-09

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity: 52%
 Test Distance: 5.850m [K=1.0000]
 Remarks: