

LED Downlight FUSION Series FA10-22W-830-40D Specular



Light Output Ratio:	100.0%	
Luminaire Power:	24.11 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.65	fine grid method.

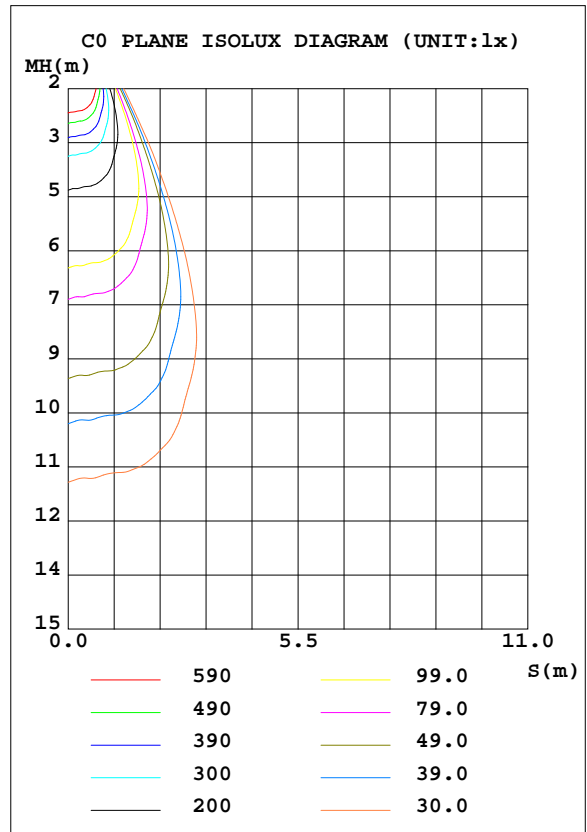
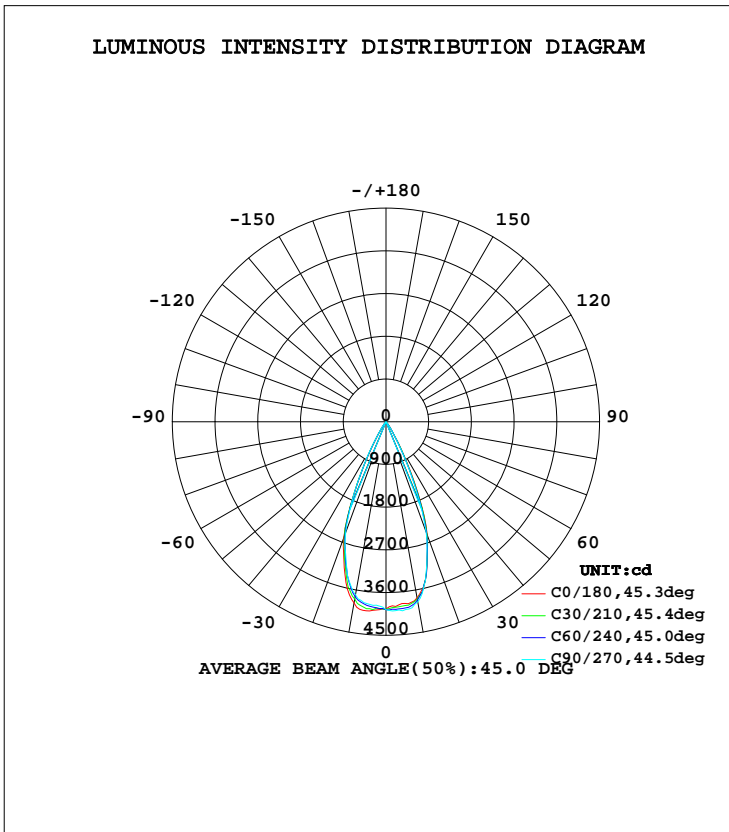
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Cao Chengpei
Test Date: 2016-06-23

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:0.1178A P:24.11W PF:0.9279 Lamp Flux:2041.07x1 lm		
NAME: FA10-22W-830-40D Specular	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L290mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	CREE-3000K	Imax(cd)	4054	S/MH(C0/180)	0.67
NOMINAL POWER(W)	24	LOR(%)	100.0	S/MH(C90/270)	0.67
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2041.1	η UP, DN(C0-180)	0.0, 49.9
NOMINAL FLUX(lm)	2041.07	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 50.1
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



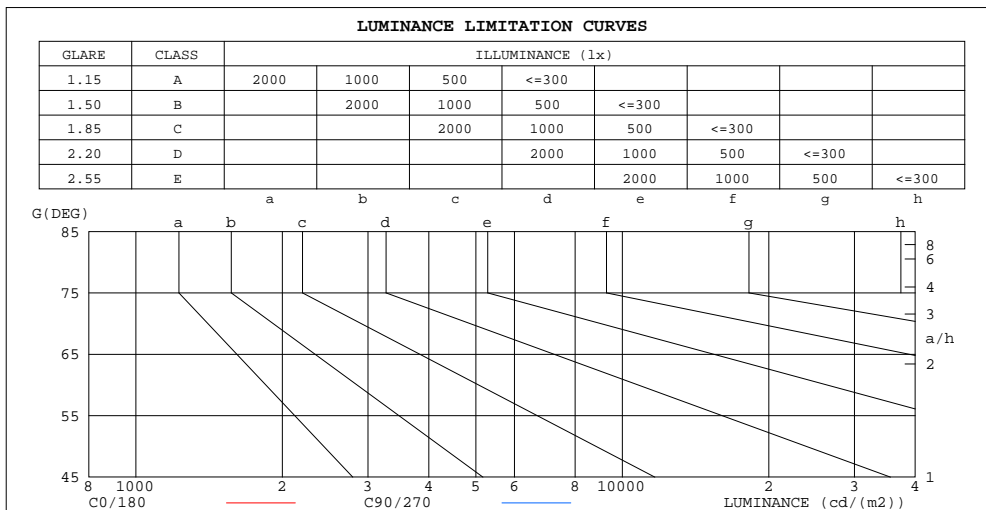
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	3766	3819	3853	3931	3879	3769	3707	3739	0- 10	372.1	372.1	18.2,18.2
20	2535	2539	2481	2535	2608	2554	2489	2514	10- 20	898.6	1271	62.3,62.3
30	534.6	506.3	468.2	470.7	510.8	524.0	543.8	557.2	20- 30	642.9	1914	93.8,93.8
40	41.92	43.09	39.64	43.22	46.34	43.58	43.44	41.86	30- 40	114.2	2028	99.3,99.3
50	3.998	5.096	5.518	5.270	3.936	3.053	2.838	2.866	40- 50	8.814	2037	99.8,99.8
60	2.043	2.068	1.995	1.873	1.762	1.647	1.601	1.843	50- 60	2.605	2039	99.9,99.9
70	0.6483	0.6471	0.6460	0.6301	0.6385	0.7206	0.8300	0.7825	60- 70	1.149	2040	100,100
80	0.3091	0.3023	0.3198	0.2938	0.2958	0.3197	0.3193	0.3070	70- 80	0.4938	2041	100,100
90	0.1640	0.1598	0.1555	0.1619	0.1044	0.1065	0.1065	0.1108	80- 90	0.2289	2041	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	202	208
80	136	141
75	129	131
70	145	145
65	206	188
60	313	306
55	421	505
50	477	658
45	620	676

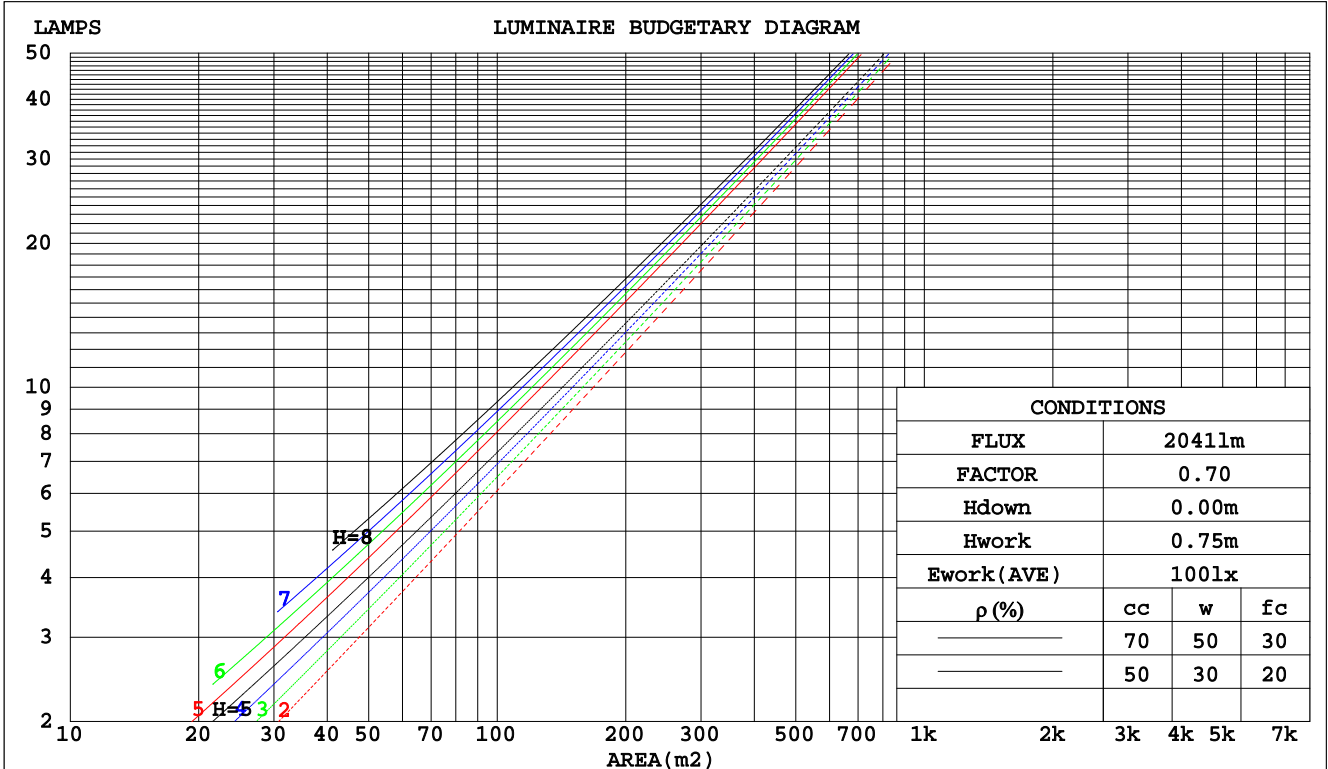
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 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:53.0%
Test Distance:5.850m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.6V I:0.1178A P:24.11W PF:0.9279 Lamp Flux:2041.07x1 lm		
NAME: FA10-22W-830-40D Specular	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L290mm*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																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	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.04	1.03	1.02	1.01	1.00	.99	.98	.97	.95
2.0	1.06	1.03	.90	1.04	1.01	.99	1.01	.99	.97	.98	.96	.94	.96	.94	.93	.91
3.0	1.00	.96	.93	.99	.95	.92	.97	.94	.91	.94	.92	.90	.92	.90	.88	.87
4.0	.96	.91	.88	.94	.90	.87	.92	.89	.86	.91	.88	.85	.89	.86	.84	.83
5.0	.91	.86	.83	.90	.86	.82	.89	.85	.82	.87	.84	.81	.86	.83	.80	.79
6.0	.87	.82	.79	.86	.82	.78	.85	.81	.78	.84	.80	.77	.82	.79	.77	.76
7.0	.83	.78	.75	.83	.78	.75	.81	.77	.74	.80	.77	.74	.79	.76	.74	.72
8.0	.80	.75	.72	.79	.75	.71	.78	.74	.71	.77	.74	.71	.76	.73	.71	.69
9.0	.76	.72	.68	.76	.71	.68	.75	.71	.68	.74	.71	.68	.74	.70	.68	.67
10.0	.73	.69	.66	.73	.69	.65	.72	.68	.65	.72	.68	.65	.71	.67	.65	.64



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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	.152	.087	.027	.145	.083	.026	.133	.076	.024	.122	.070	.023	.111	.064	.021	
2.0	.143	.078	.024	.137	.076	.023	.127	.071	.022	.117	.066	.021	.109	.061	.019	
3.0	.135	.072	.021	.130	.070	.021	.121	.066	.020	.113	.062	.019	.106	.059	.018	
4.0	.127	.066	.019	.123	.065	.019	.116	.062	.018	.109	.059	.018	.103	.056	.017	
5.0	.121	.062	.018	.118	.060	.018	.111	.058	.017	.105	.056	.017	.100	.053	.016	
6.0	.115	.058	.017	.112	.057	.016	.107	.055	.016	.102	.053	.016	.097	.051	.015	
7.0	.110	.055	.015	.108	.054	.015	.103	.052	.015	.098	.050	.015	.094	.049	.014	
8.0	.106	.052	.015	.103	.051	.014	.099	.050	.014	.095	.048	.014	.091	.047	.014	
9.0	.102	.049	.014	.100	.049	.014	.096	.047	.013	.092	.046	.013	.089	.045	.013	
10.0	.098	.047	.013	.096	.046	.013	.092	.045	.013	.089	.044	.013	.086	.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	.131	.114	.100	.089	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.138	.113	.093	.119	.098	.081	.081	.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	.063	.101	.075	.055	.069	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.109	.077	.053	.094	.066	.046	.065	.046	.033	.037	.027	.020	.012	.009	.006	
7.0	.102	.069	.045	.088	.060	.039	.061	.042	.028	.035	.025	.017	.011	.008	.006	
8.0	.096	.062	.039	.083	.054	.034	.057	.038	.024	.033	.022	.014	.011	.007	.005	
9.0	.091	.057	.034	.078	.049	.029	.054	.035	.021	.032	.020	.012	.010	.007	.004	
10.0	.086	.052	.030	.074	.045	.026	.052	.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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MFR.: NEKO LIGHTING AG		

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	8.0	8.7	8.2	8.9	9.1	7.4	8.1	7.6	8.3	8.5
3H	7.8	8.5	8.1	8.7	8.9	7.2	7.9	7.5	8.1	8.3
4H	7.7	8.4	8.0	8.6	8.8	7.2	7.8	7.4	8.0	8.2
6H	7.7	8.3	7.9	8.5	8.8	7.1	7.7	7.4	7.9	8.2
8H	7.6	8.2	7.9	8.5	8.7	7.0	7.6	7.3	7.9	8.1
12H	7.6	8.2	7.9	8.4	8.7	7.0	7.6	7.3	7.8	8.1
4H 2H	7.7	8.4	8.0	8.6	8.8	7.1	7.8	7.4	8.0	8.2
3H	7.6	8.2	7.9	8.4	8.7	7.0	7.6	7.3	7.8	8.1
4H	7.5	8.0	7.8	8.3	8.6	6.9	7.4	7.2	7.7	8.0
6H	7.4	7.9	7.8	8.2	8.5	6.8	7.3	7.2	7.6	7.9
8H	7.3	7.8	7.7	8.1	8.5	6.8	7.2	7.1	7.5	7.9
12H	7.3	7.7	7.7	8.1	8.4	6.7	7.1	7.1	7.5	7.9
8H 4H	7.3	7.8	7.7	8.1	8.5	6.7	7.2	7.1	7.5	7.9
6H	7.2	7.6	7.7	8.0	8.4	6.6	7.0	7.1	7.4	7.8
8H	7.2	7.5	7.6	7.9	8.4	6.6	6.9	7.0	7.3	7.8
12H	7.1	7.4	7.6	7.8	8.3	6.5	6.8	7.0	7.3	7.7
12H 4H	7.3	7.7	7.7	8.0	8.4	6.7	7.1	7.1	7.5	7.8
6H	7.2	7.5	7.6	7.9	8.3	6.6	6.9	7.0	7.3	7.8
8H	7.1	7.4	7.6	7.8	8.3	6.5	6.8	7.0	7.2	7.7
Variations with the observer position at spacings:										
S = 1.0H	+ 4.3 / -10.5					+ 4.1 / -10.1				
1.5H	+ 7.0 / - 9.2					+ 6.7 / - 8.9				
2.0H	+ 1.3 / - 2.3					+ 2.0 / - 2.8				

CIE Pub.117 Corrected 2041 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.5)

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 γ Interval: 1.0DEG
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 Humidity:53.0%
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 Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.6V I:0.1178A P:24.11W PF:0.9279 Lamp Flux:2041.07x1 lm		
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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	85	82	91	85	82	90	85	82	79
0.80	98	93	90	97	93	90	96	92	89	86
1.00	102	97	94	101	96	93	100	96	93	89
1.25	105	101	98	104	100	97	102	99	96	93
1.50	108	104	101	107	103	100	104	101	99	95
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	107	104	107	104	102	97
3.00	113	110	107	111	108	106	108	106	104	98
4.00	115	112	110	113	110	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

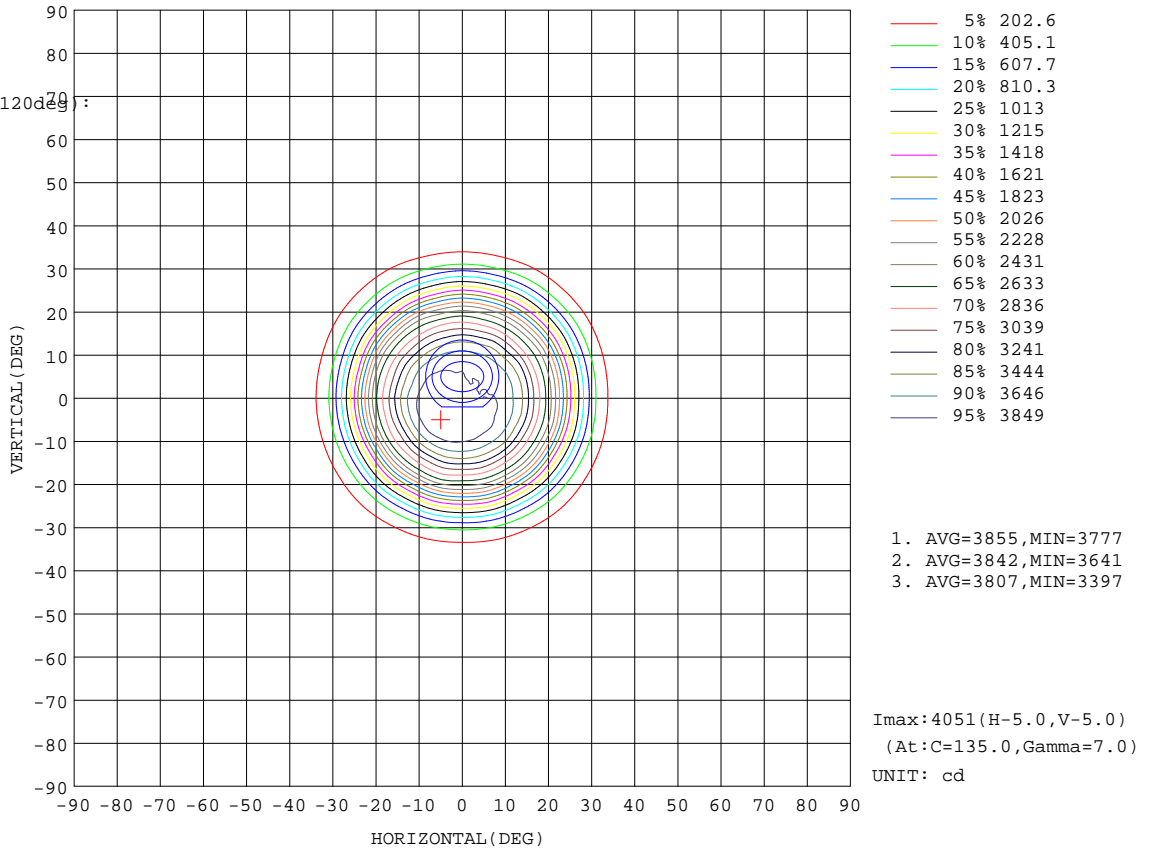
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Conical surface Flux(90deg):

2034.7 lm
%lum = 99.7%
%lamp = 99.7%

Conical surface Flux(120deg):

2039.2 lm
%lum = 99.9%
%lamp = 99.9%



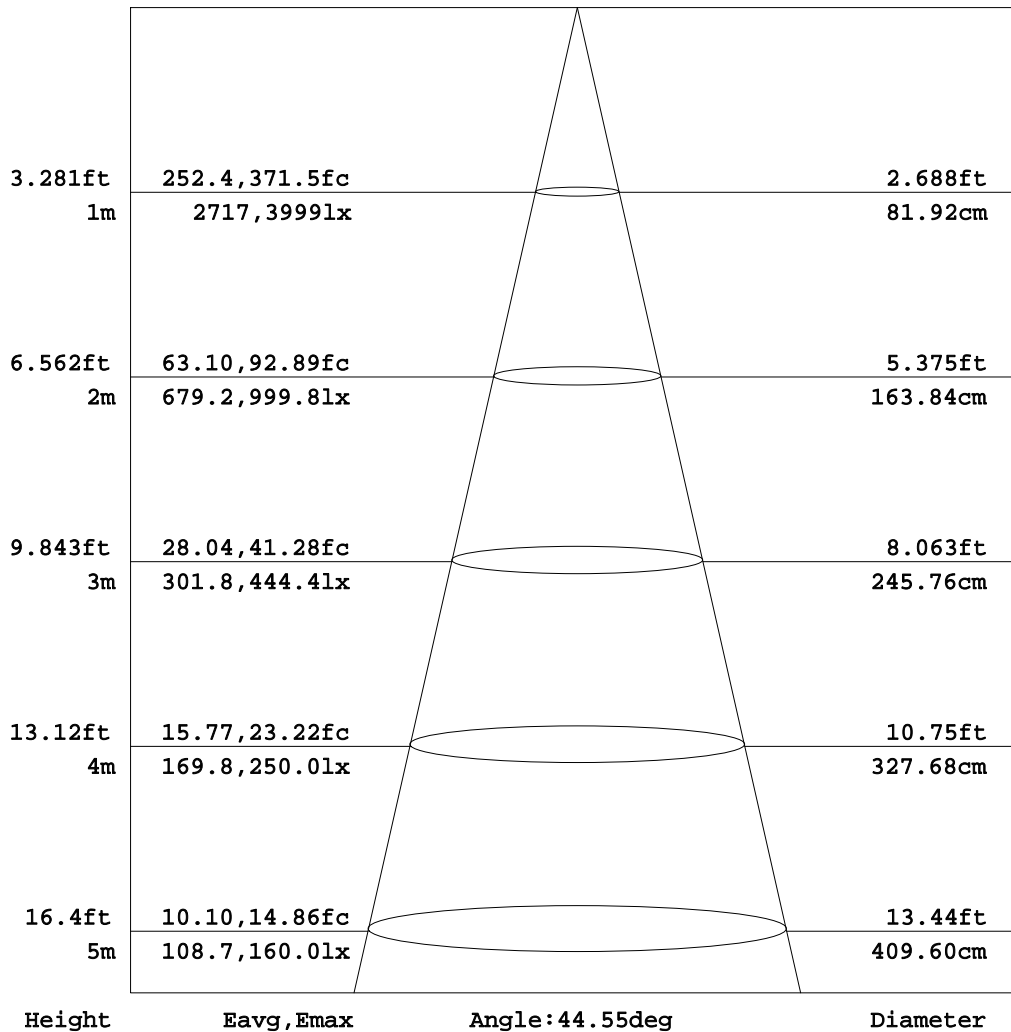
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AAI Figure

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Flux out:1538 lm



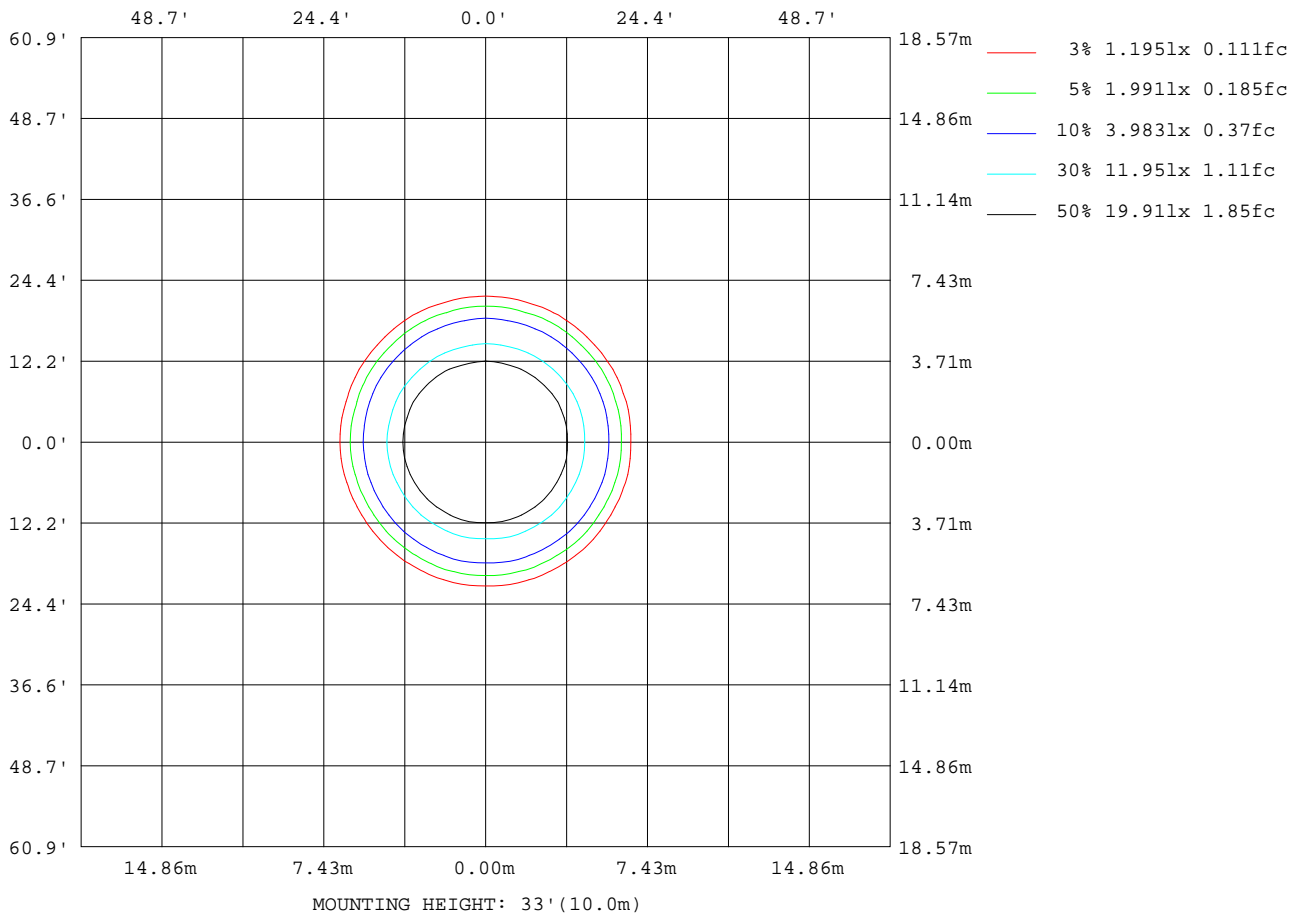
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

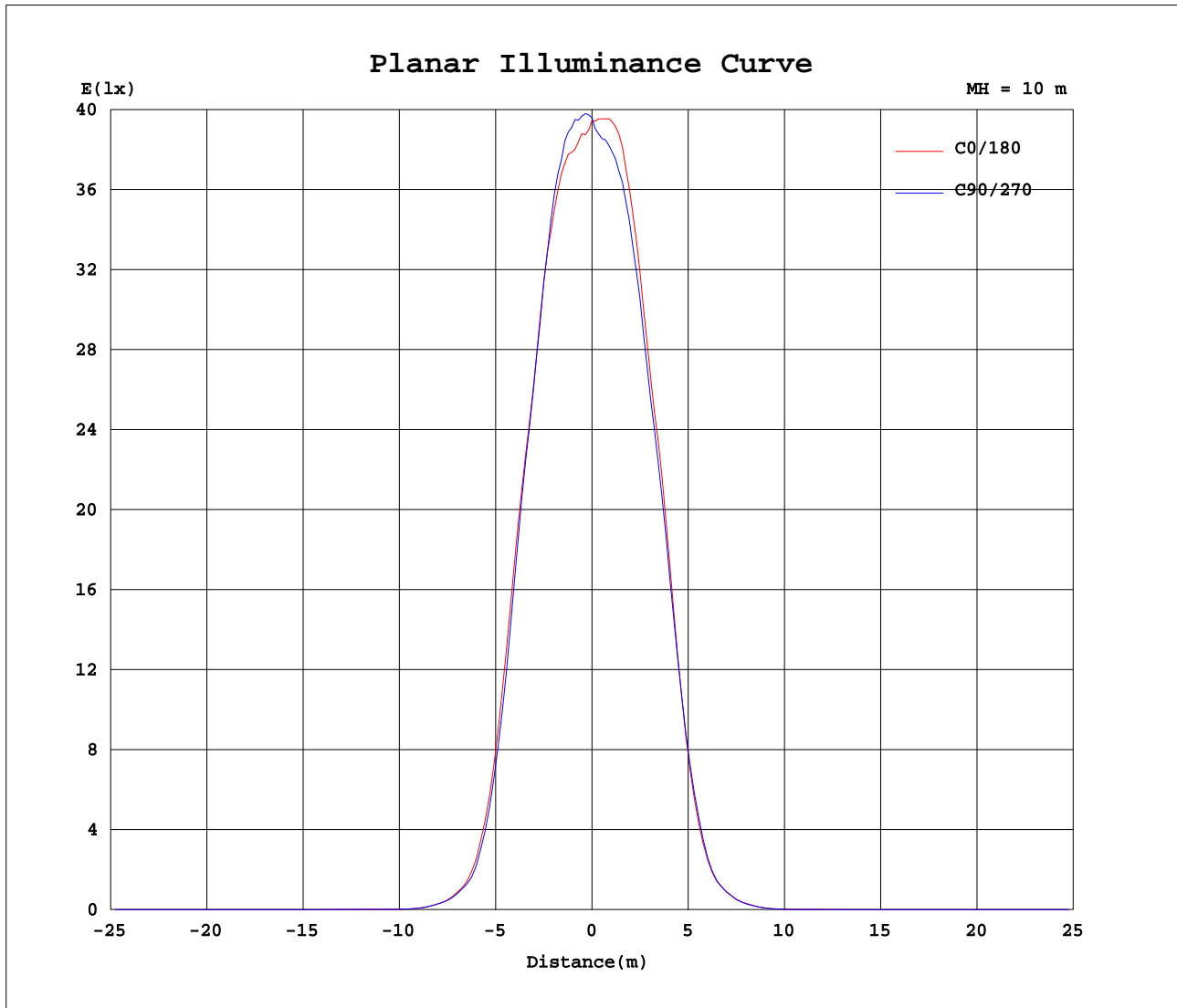
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Planar Illuminance Curve



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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	3946	3955	3953	3956	3958	3955	3960	3952	3957	3948
3.0	3896	3891	3915	3941	3957	3969	3983	3979	4004	3984
6.0	3849	3884	3891	3932	3945	3966	3976	4017	4036	4041
9.0	3820	3828	3837	3874	3876	3886	3891	3929	3963	3994
12.0	3627	3653	3668	3671	3669	3675	3690	3714	3740	3739
15.0	3305	3298	3291	3315	3303	3293	3271	3315	3289	3322
18.0	2833	2830	2830	2833	2816	2829	2803	2862	2839	2841
21.0	2363	2393	2348	2348	2311	2312	2266	2317	2286	2316
24.0	1689	1689	1642	1646	1598	1601	1545	1573	1550	1598
27.0	1017	1033	993.7	983.9	940.1	953.2	923.5	934.0	913.8	947.6
30.0	534.6	529.7	515.9	506.3	488.4	478.8	468.2	467.3	465.9	470.7
33.0	240.8	240.3	230.4	233.0	223.2	223.4	217.4	221.7	216.6	220.9
36.0	120.5	127.9	118.7	125.7	114.4	120.2	112.5	120.7	115.8	122.0
39.0	56.52	56.95	56.36	57.73	55.60	57.50	54.91	57.75	56.43	58.03
42.0	19.25	20.19	19.26	19.87	18.50	18.78	18.04	19.11	18.80	19.54
45.0	5.721	6.151	6.068	6.420	6.232	6.286	6.238	6.713	6.832	6.988
48.0	4.230	4.577	4.928	5.393	5.689	5.815	5.870	6.025	6.020	5.735
51.0	3.864	4.150	4.440	4.880	5.128	5.278	5.265	5.327	5.219	4.973
54.0	3.359	3.524	3.678	4.007	4.139	4.264	4.184	4.189	4.040	3.887
57.0	2.721	2.765	2.794	2.984	3.018	3.082	2.982	2.952	2.831	2.764
60.0	2.043	2.013	1.975	2.068	2.067	2.075	1.995	1.962	1.890	1.873
63.0	1.455	1.404	1.353	1.398	1.385	1.381	1.327	1.317	1.276	1.285
66.0	1.003	0.9727	0.9366	0.9685	0.9515	0.9621	0.9258	0.9302	0.9002	0.9132
69.0	0.7145	0.7109	0.6930	0.7110	0.7058	0.7174	0.6994	0.7003	0.6760	0.6918
72.0	0.5459	0.5365	0.5332	0.5450	0.5502	0.5535	0.5544	0.5429	0.5331	0.5364
75.0	0.4349	0.4237	0.4307	0.4322	0.4392	0.4344	0.4435	0.4279	0.4264	0.4279
78.0	0.3539	0.3407	0.3518	0.3449	0.3581	0.3470	0.3646	0.3470	0.3475	0.3385
81.0	0.2899	0.2704	0.2856	0.2768	0.2942	0.2789	0.3027	0.2789	0.2836	0.2704
84.0	0.2388	0.2214	0.2367	0.2257	0.2452	0.2299	0.2494	0.2257	0.2324	0.2151
87.0	0.2005	0.1767	0.1962	0.1788	0.1962	0.1704	0.1962	0.1704	0.1834	0.1661
90.0	0.1640	0.1619	0.1598	0.1598	0.1598	0.1598	0.1555	0.1555	0.1598	0.1619
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	3953	3944	3946	3955	3953	3956	3958	3955	3960	3952
3.0	4008	3985	3970	3957	3935	3933	3923	3881	3871	3881
6.0	4044	4019	4005	3974	3960	3905	3890	3850	3852	3824
9.0	3973	3976	3958	3892	3875	3825	3801	3770	3775	3766
12.0	3755	3720	3722	3649	3644	3622	3572	3541	3547	3552
15.0	3306	3337	3339	3289	3274	3223	3204	3181	3198	3184
18.0	2888	2879	2893	2867	2843	2824	2784	2786	2793	2767
21.0	2334	2378	2401	2381	2409	2340	2359	2269	2309	2300
24.0	1578	1632	1670	1631	1665	1625	1640	1606	1650	1636
27.0	937.6	959.2	988.9	981.5	1006	982.2	1003	996.0	1024	1010
30.0	476.0	488.1	510.8	512.2	525.0	524.0	530.3	532.2	543.8	538.6
33.0	218.0	229.1	239.9	233.7	239.0	235.4	245.2	236.5	243.8	239.0
36.0	117.7	125.4	130.7	123.1	131.5	124.7	130.9	124.6	127.5	125.1
39.0	56.65	58.88	60.99	59.70	60.04	58.97	59.88	57.61	57.47	57.03
42.0	18.97	19.91	21.60	20.52	21.25	20.33	21.02	19.40	19.82	18.29
45.0	6.500	6.427	6.854	6.251	6.345	5.836	5.989	5.396	5.349	4.785
48.0	5.162	4.604	4.426	3.924	3.700	3.509	3.455	3.332	3.235	3.084
51.0	4.434	3.887	3.695	3.232	3.027	2.865	2.810	2.716	2.667	2.594
54.0	3.497	3.115	3.010	2.662	2.514	2.381	2.335	2.261	2.238	2.210
57.0	2.557	2.356	2.354	2.151	2.078	1.993	1.954	1.897	1.886	1.890
60.0	1.781	1.715	1.762	1.673	1.675	1.647	1.639	1.603	1.601	1.626
63.0	1.244	1.228	1.274	1.262	1.304	1.337	1.360	1.345	1.356	1.383
66.0	0.8873	0.8919	0.9257	0.9233	0.9896	1.038	1.096	1.104	1.126	1.143
69.0	0.6780	0.6791	0.6959	0.6928	0.7427	0.7888	0.8577	0.8697	0.8982	0.8975
72.0	0.5352	0.5322	0.5449	0.5415	0.5682	0.6013	0.6597	0.6781	0.7001	0.6908
75.0	0.4307	0.4279	0.4321	0.4370	0.4470	0.4669	0.4917	0.5138	0.5214	0.5181
78.0	0.3496	0.3364	0.3427	0.3538	0.3491	0.3667	0.3767	0.3901	0.3831	0.3901
81.0	0.2729	0.2704	0.2703	0.2835	0.2682	0.2942	0.2937	0.3091	0.2937	0.3027
84.0	0.2217	0.2150	0.2128	0.2196	0.2065	0.2366	0.2256	0.2409	0.2213	0.2324
87.0	0.1791	0.1619	0.1362	0.1429	0.1468	0.1728	0.1595	0.1770	0.1574	0.1728
90.0	0.1598	0.1662	0.1044	0.1065	0.1044	0.1065	0.1044	0.1086	0.1065	0.1065
G/C	300.0	315.0	330.0	345.0						
0.0	3957	3948	3953	3944						
3.0	3884	3862	3866	3872						
6.0	3835	3845	3843	3850						
9.0	3761	3780	3791	3807						
12.0	3606	3581	3626	3636						
15.0	3248	3234	3311	3298						
18.0	2798	2791	2815	2826						
21.0	2321	2342	2409	2385						

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Cao Chengpei

Test Date: 2016-06-23

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	1677	1695	1746	1723
27.0	1055	1048	1081	1055
30.0	550.0	557.2	563.3	554.3
33.0	252.1	245.3	257.1	249.7
36.0	131.4	126.8	133.0	126.5
39.0	58.49	58.12	58.53	58.41
42.0	19.22	18.36	20.04	19.46
45.0	5.002	4.800	5.283	5.258
48.0	3.083	3.137	3.296	3.516
51.0	2.638	2.749	2.945	3.205
54.0	2.293	2.436	2.658	2.879
57.0	2.006	2.148	2.346	2.462
60.0	1.731	1.843	1.969	1.970
63.0	1.464	1.524	1.556	1.482
66.0	1.194	1.190	1.158	1.047
69.0	0.9193	0.8742	0.8213	0.7441
72.0	0.6851	0.6313	0.5915	0.5608
75.0	0.4937	0.4691	0.4469	0.4434
78.0	0.3618	0.3560	0.3427	0.3560
81.0	0.2809	0.2814	0.2724	0.2878
84.0	0.2107	0.2217	0.2065	0.2260
87.0	0.1510	0.1685	0.1531	0.1727
90.0	0.1044	0.1108	0.1023	0.1065

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Cao Chengpei
 Test Date: 2016-06-23

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: