

LED Downlight SENSE Series S68R1-8.5W-930-S



Light Output Ratio:	100.0%	
Luminaire Power:	10.21 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.2DEG
Operators: Cao Chengpei
Test Date: 2016-09-26

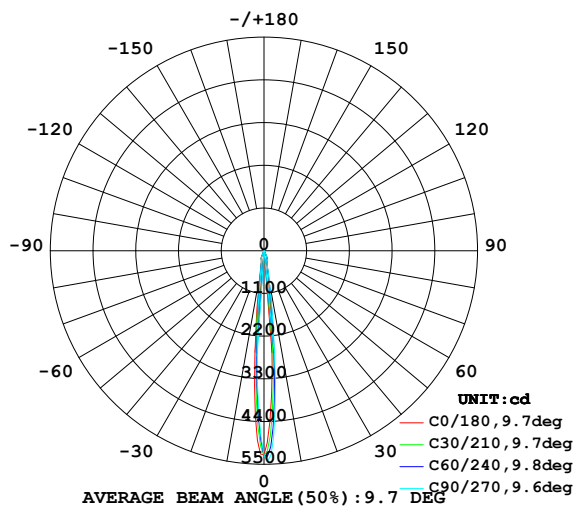
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

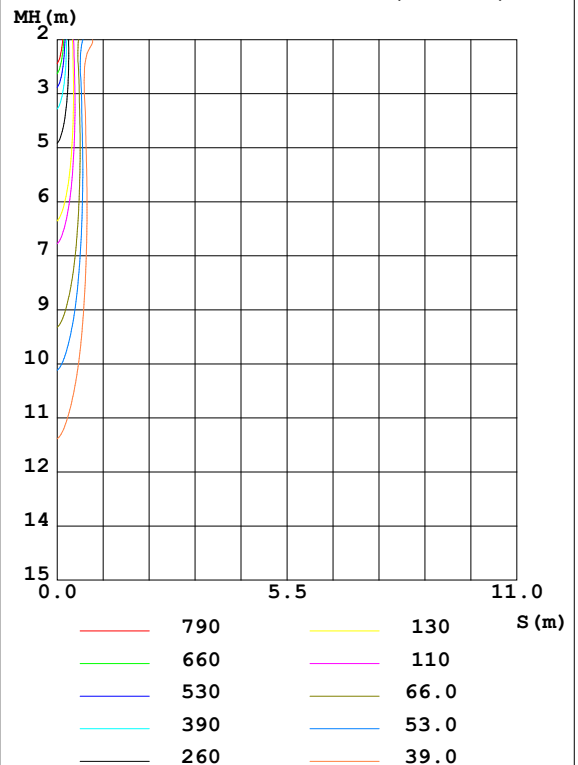
Test:U:220.6V I:0.0516A P:10.21W PF:0.9021 Lamp Flux:342.89lx1 lm		
NAME: S68R1-8.5W-930-S	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: ϕ 78mm*H98mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 33.58 lm/W			
MODEL	CREE-3000K	I _{max} (cd)	5444	S/MH (C0/180)	0.18
NOMINAL POWER (W)	10.0	LOR (%)	100.0	S/MH (C90/270)	0.14
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	342.89	η UP,DN (C0-180)	0.0,56.1
NOMINAL FLUX (lm)	342.891	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,43.9
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



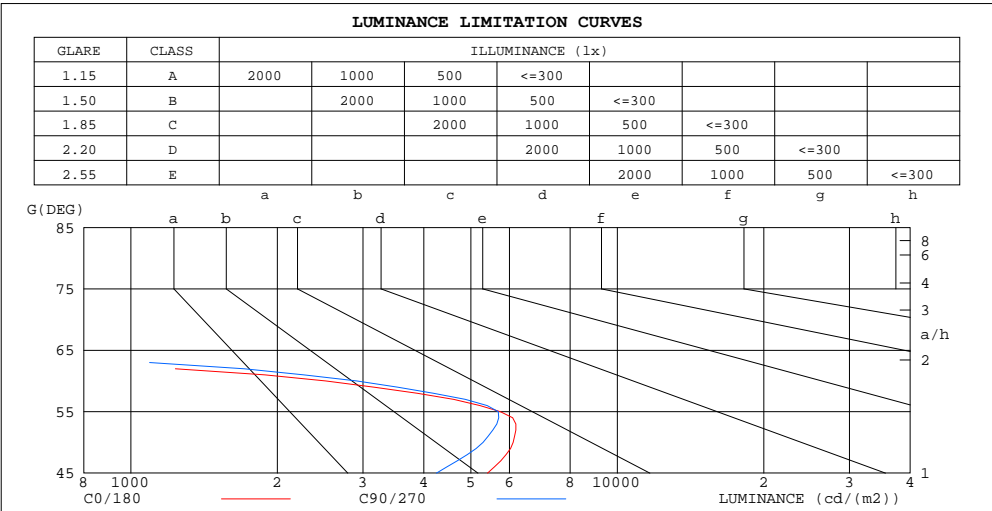
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γ Range: 0 - 90DEG
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 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
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 Remarks:

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	605.1	736.8	768.4	682.7	550.3	465.2	458.4	492.1	0- 10	179.2	179.2	52.3,52.3
20	223.0	225.4	224.5	225.0	221.7	215.3	215.2	217.0	10- 20	84.23	263.4	76.8,76.8
30	16.85	14.90	12.18	11.80	12.51	11.83	12.79	14.18	20- 30	47.06	310.5	90.5,90.5
40	16.61	15.96	12.48	11.67	11.62	11.50	12.64	13.50	30- 40	8.181	318.7	92.9,92.9
50	18.74	18.01	16.25	13.98	14.95	14.42	15.25	15.42	40- 50	11.36	330.0	96.2,96.2
60	6.004	8.557	6.954	6.936	5.808	4.576	5.254	5.414	50- 60	11.60	341.6	99.6,99.6
70	0.0213	0.0128	0.0234	0.0128	0.0128	0.0170	0.0149	0.0192	60- 70	1.242	342.9	100,100
80	0.0170	0.0128	0.0170	0.0128	0.0128	0.0149	0.0149	0.0149	70- 80	0.0163	342.9	100,100
90	0.0149	0.0128	0.0149	0.0149	0.0128	0.0149	0.0149	0.0149	80- 90	0.0157	342.9	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		



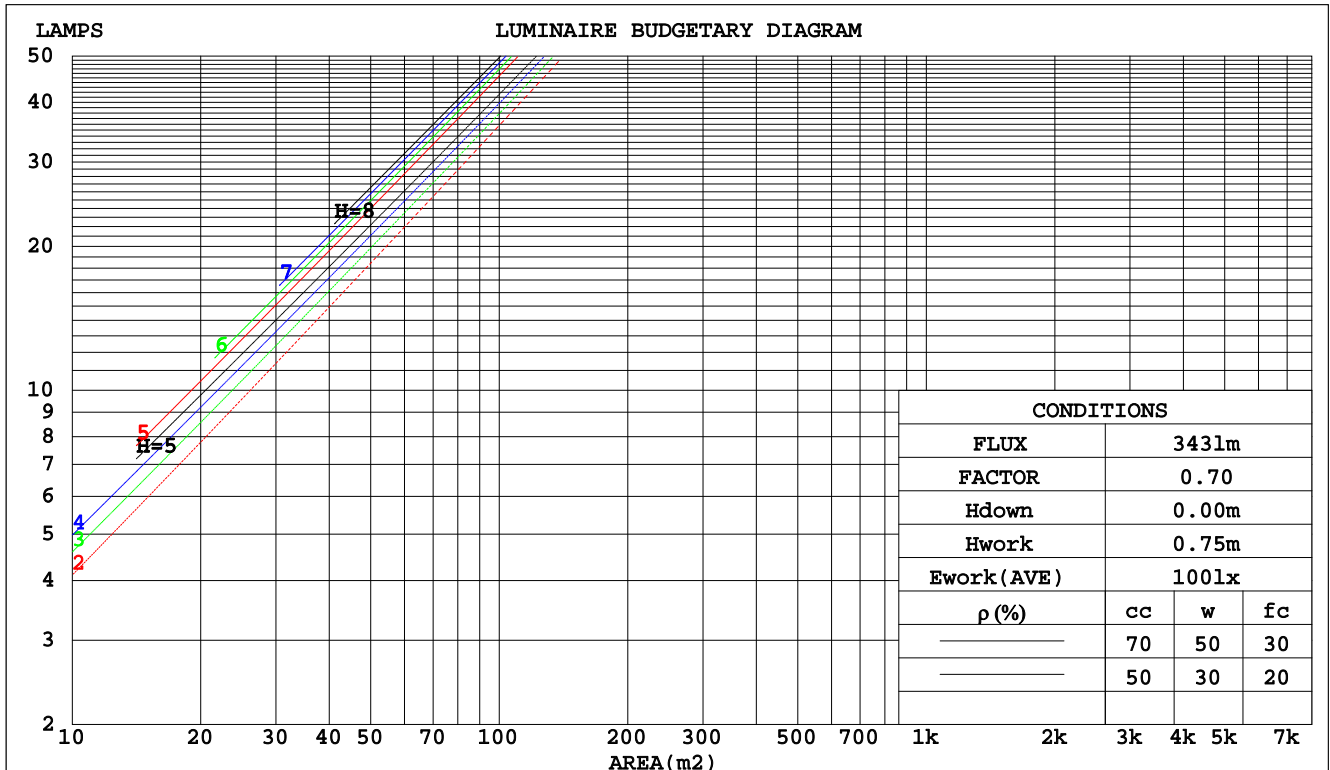
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.6V I:0.0516A P:10.21W PF:0.9021 Lamp Flux:342.891x1 lm		
NAME: S68R1-8.5W-930-S	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: ϕ 78mm*H98mm	
MFR.: NEKO LIGHTING AG		

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	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	1.13	1.11	1.09	1.11	1.09	1.08	1.07	1.06	1.04	1.03	1.02	1.01	.00	.99	.98	.97
2.0	1.08	1.05	1.02	1.06	1.03	1.01	1.03	1.01	.99	1.00	.98	.97	.97	.96	.95	.93
3.0	1.03	.00	.97	1.02	.99	.96	.99	.97	.95	.97	.95	.93	.95	.93	.92	.90
4.0	.99	.95	.92	.98	.95	.92	.96	.93	.91	.94	.92	.90	.93	.91	.89	.88
5.0	.96	.92	.89	.95	.91	.89	.93	.90	.88	.92	.89	.87	.91	.88	.86	.85
6.0	.93	.89	.86	.92	.89	.86	.91	.88	.85	.90	.87	.85	.89	.86	.84	.83
7.0	.90	.86	.84	.90	.86	.83	.89	.85	.83	.88	.85	.83	.87	.84	.82	.81
8.0	.88	.84	.81	.88	.84	.81	.87	.83	.81	.86	.83	.81	.85	.82	.80	.79
9.0	.86	.82	.79	.86	.82	.79	.85	.81	.79	.84	.81	.79	.83	.81	.79	.78
10.0	.84	.80	.78	.84	.80	.78	.83	.80	.78	.82	.79	.77	.82	.79	.77	.76



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

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ρ_{cc}	80%			70%			50%			30%			10%			0	
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρ_{fc}	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.135	.077	.024	.128	.073	.023	.116	.067	.021	.105	.060	.019	.094	.055	.018		
2.0	.126	.069	.021	.120	.066	.020	.110	.061	.019	.101	.057	.018	.092	.052	.016		
3.0	.117	.062	.019	.113	.060	.018	.104	.056	.017	.096	.053	.016	.089	.049	.015		
4.0	.109	.057	.017	.105	.055	.016	.098	.052	.016	.092	.049	.015	.086	.046	.014		
5.0	.102	.052	.015	.099	.051	.015	.093	.048	.014	.087	.046	.014	.082	.044	.013		
6.0	.096	.048	.014	.093	.047	.014	.088	.045	.013	.083	.043	.013	.079	.041	.012		
7.0	.091	.045	.013	.088	.044	.013	.084	.042	.012	.079	.041	.012	.075	.039	.012		
8.0	.086	.042	.012	.084	.041	.012	.080	.040	.011	.076	.038	.011	.072	.037	.011		
9.0	.081	.039	.011	.079	.039	.011	.076	.038	.011	.073	.036	.010	.070	.035	.010		
10.0	.077	.037	.010	.076	.036	.010	.072	.036	.010	.070	.035	.010	.067	.034	.010		

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	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	.168	.158	.148	.144	.135	.128	.098	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.150	.133	.118	.129	.114	.102	.088	.079	.071	.051	.046	.042	.016	.015	.014	
3.0	.135	.113	.096	.116	.098	.083	.079	.068	.058	.046	.040	.034	.015	.013	.011	
4.0	.122	.098	.079	.105	.085	.069	.072	.059	.048	.042	.035	.029	.013	.011	.009	
5.0	.112	.085	.066	.096	.074	.058	.066	.052	.041	.038	.030	.024	.012	.010	.008	
6.0	.102	.075	.056	.088	.065	.049	.061	.046	.035	.035	.027	.021	.011	.009	.007	
7.0	.095	.067	.048	.081	.058	.042	.056	.041	.030	.033	.024	.018	.011	.008	.006	
8.0	.088	.060	.041	.075	.052	.036	.052	.037	.026	.030	.022	.015	.010	.007	.005	
9.0	.082	.055	.036	.070	.047	.032	.049	.033	.022	.028	.020	.013	.009	.006	.004	
10.0	.076	.050	.032	.066	.043	.028	.046	.030	.020	.027	.018	.012	.009	.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

Test:U:220.6V I:0.0516A P:10.21W PF:0.9021 Lamp Flux:342.89lx1 lm										
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SPEC.:3000K					DIM.: ϕ 78mm*H98mm					
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	12.7	13.3	12.9	13.5	13.6	12.3	12.9	12.5	13.1	13.2
3H	12.6	13.2	12.8	13.3	13.5	12.1	12.7	12.4	12.9	13.1
4H	12.5	13.0	12.7	13.3	13.5	12.1	12.6	12.3	12.8	13.0
6H	12.4	12.9	12.7	13.2	13.4	12.0	12.5	12.3	12.8	13.0
8H	12.3	12.9	12.6	13.1	13.4	11.9	12.5	12.2	12.7	13.0
12H	12.3	12.8	12.6	13.1	13.3	11.9	12.4	12.2	12.7	12.9
4H 2H	12.8	13.4	13.1	13.6	13.8	12.5	13.0	12.7	13.2	13.4
3H	12.6	13.2	13.0	13.4	13.7	12.3	12.8	12.6	13.1	13.3
4H	12.6	13.0	12.9	13.3	13.6	12.2	12.7	12.5	12.9	13.2
6H	12.5	12.9	12.8	13.2	13.5	12.1	12.5	12.5	12.8	13.2
8H	12.4	12.8	12.8	13.1	13.5	12.0	12.4	12.4	12.8	13.1
12H	12.3	12.7	12.7	13.1	13.4	12.0	12.3	12.4	12.7	13.1
8H 4H	12.4	12.8	12.8	13.1	13.5	12.0	12.4	12.4	12.8	13.1
6H	12.3	12.6	12.7	13.0	13.4	11.9	12.2	12.3	12.6	13.0
8H	12.2	12.5	12.7	12.9	13.4	11.9	12.1	12.3	12.6	13.0
12H	12.2	12.4	12.6	12.8	13.3	11.8	12.0	12.3	12.5	12.9
12H 4H	12.3	12.7	12.7	13.1	13.4	12.0	12.3	12.4	12.7	13.1
6H	12.2	12.5	12.7	12.9	13.4	11.9	12.1	12.3	12.6	13.0
8H	12.2	12.4	12.6	12.8	13.3	11.8	12.0	12.3	12.5	12.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 0.9					+ 0.9 / - 0.9				
1.5H	+ 2.0 / - 3.9					+ 2.5 / - 4.7				
2.0H	+ 2.3 / -12.5					+ 1.9 / -10.5				

CIE Pub.117 Corrected 342.9 lm Total Lamp Luminous Flux.(8log(F/F0) = -3.7)

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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:

UTILIZATION FACTORS TABLE

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SPEC.:3000K	DIM.: $\phi 78\text{mm} \times H98\text{mm}$	
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) $k(RI) \times RCR = 5$									
$k = 0.60$	87	80	77	86	80	76	86	80	76	73
0.80	94	89	85	94	88	85	93	88	84	81
1.00	99	93	90	98	93	90	97	93	89	85
1.25	103	98	95	102	97	94	100	96	93	89
1.50	106	101	98	105	100	97	102	99	96	92
2.00	109	104	101	107	103	101	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	107	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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SPEC.:3000K	DIM.: ϕ 78mm*H98mm	
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Conical surface Flux(90deg):

323.81 lm

%lum = 94.4%

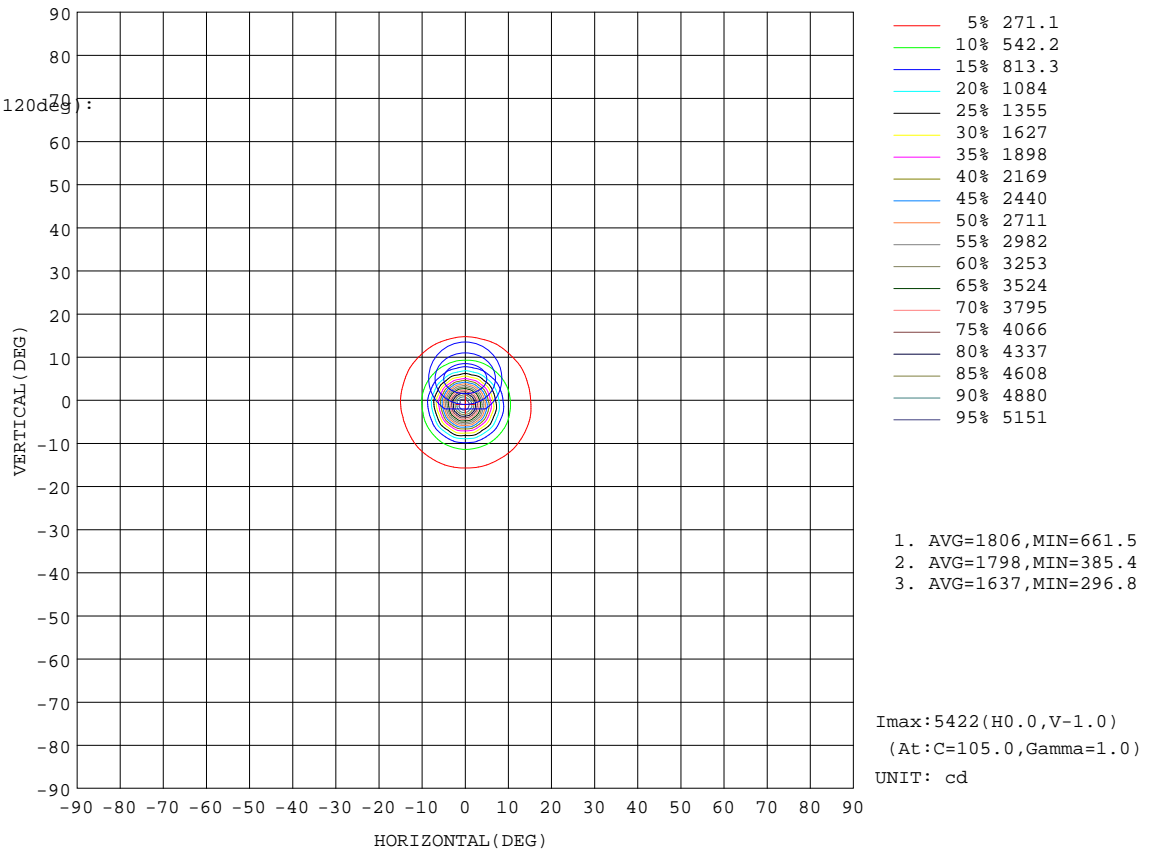
%lamp = 94.4%

Conical surface Flux(120deg):

341.62 lm

%lum = 99.6%

%lamp = 99.6%



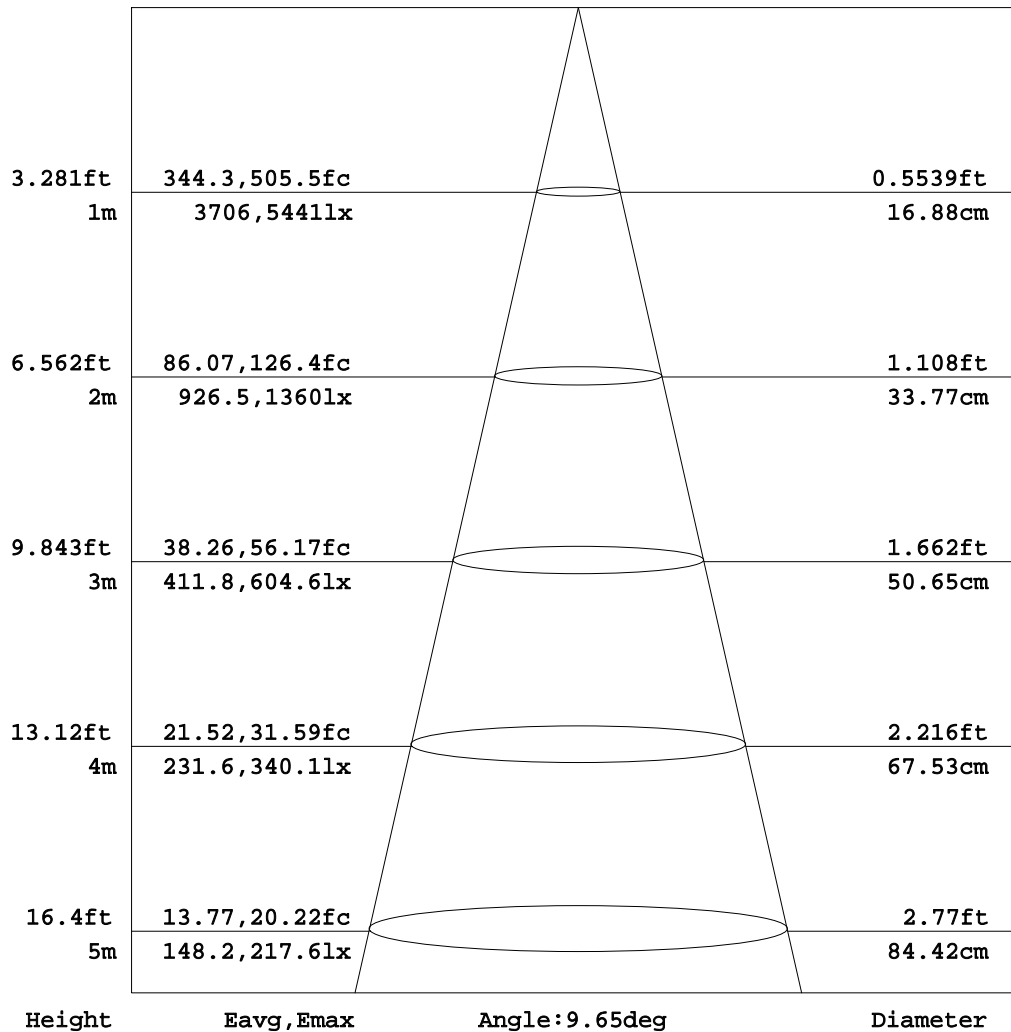
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AAI Figure

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Flux out:89.12 lm



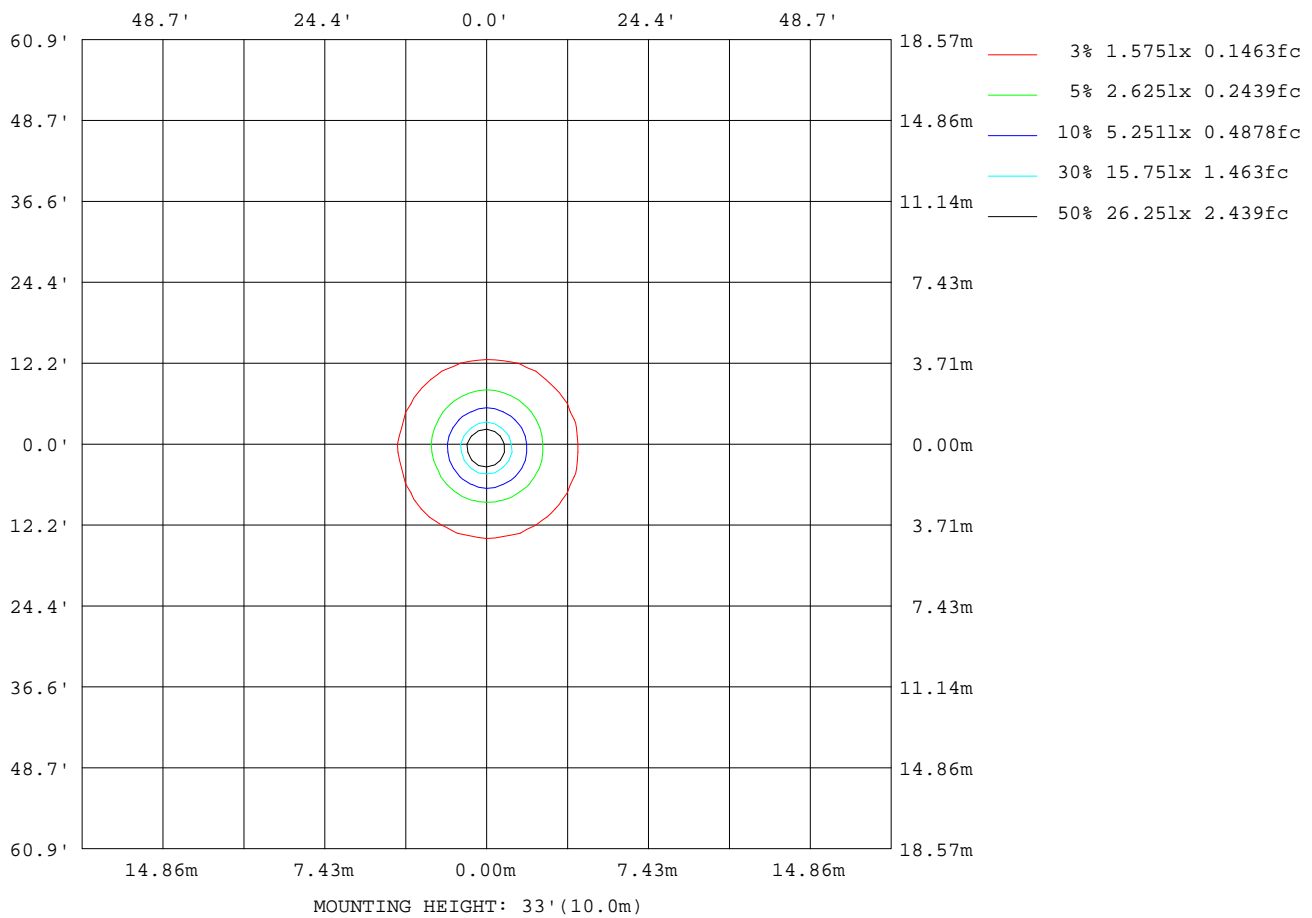
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

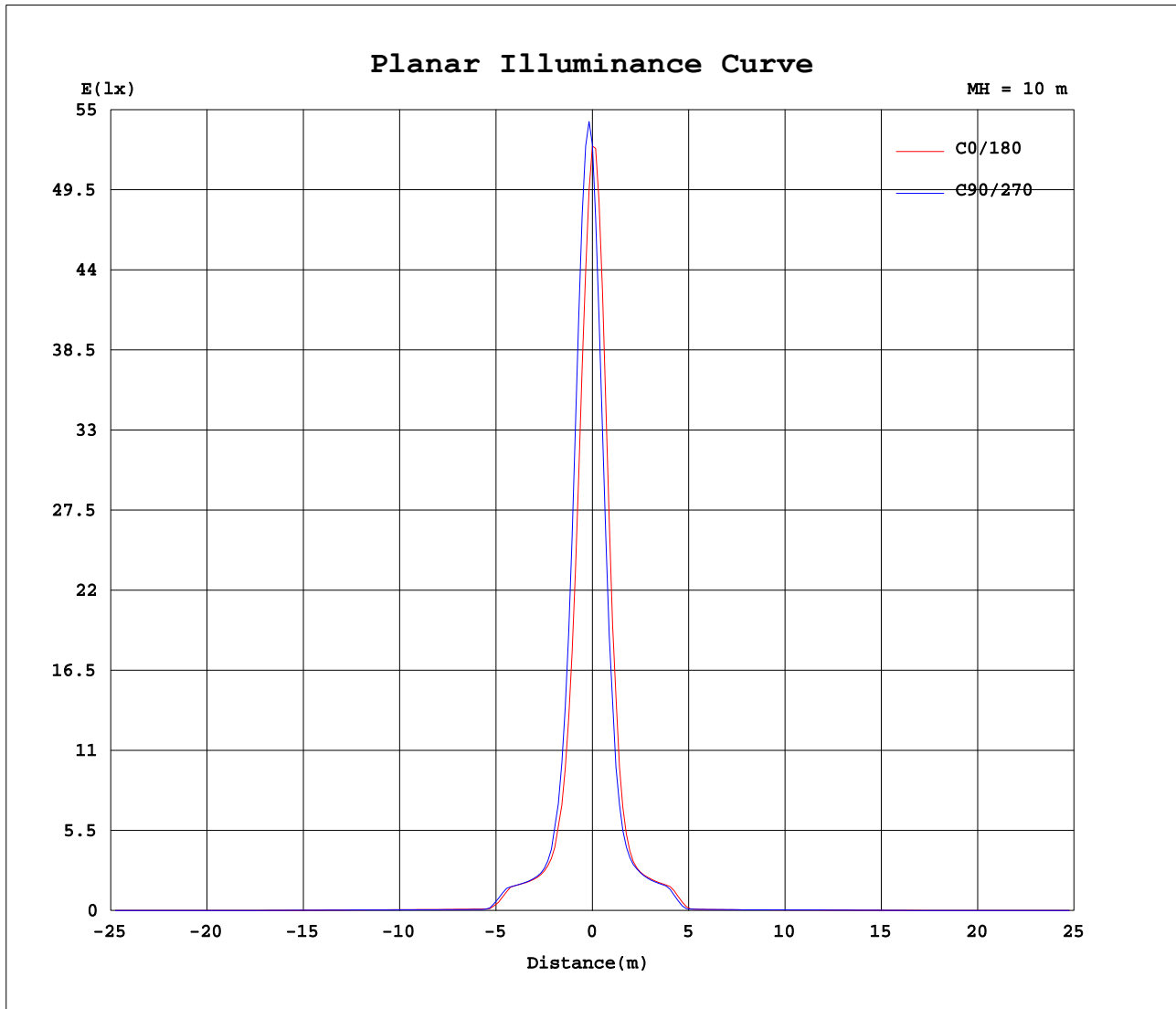
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Planar Illuminance Curve



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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	5251	5266	5271	5253	5275	5229	5260	5195	5224	5162
3.0	3747	4026	4163	4446	4558	4771	4797	4887	4765	4709
6.0	1796	2018	2112	2338	2415	2613	2599	2686	2529	2468
9.0	751.3	849.3	889.9	991.1	1006	1078	1050	1074	977.4	937.7
12.0	384.0	410.9	423.4	451.7	452.0	464.2	451.1	452.2	420.9	408.1
15.0	273.9	282.1	284.9	290.3	287.2	289.2	285.8	286.4	280.8	278.6
18.0	234.8	237.3	238.1	240.2	239.4	240.5	240.0	241.8	241.0	241.3
21.0	218.4	219.7	219.4	220.0	219.4	219.5	218.8	219.3	218.6	218.6
24.0	169.3	188.4	193.5	200.2	200.4	203.3	199.6	195.9	185.9	177.4
27.0	47.65	49.51	65.14	70.22	72.89	78.84	68.70	61.84	54.13	36.32
30.0	16.85	16.47	15.45	14.90	13.78	12.83	12.18	11.91	11.75	11.80
33.0	16.51	16.16	15.34	15.08	13.51	12.46	11.71	11.41	11.37	11.66
36.0	16.49	16.25	15.62	15.80	13.95	12.94	12.07	11.83	11.81	12.08
39.0	16.32	16.10	15.61	15.77	14.13	13.18	12.17	11.75	11.54	11.52
42.0	17.22	16.97	16.44	16.33	15.10	14.04	13.17	12.55	12.27	11.97
45.0	18.27	18.05	17.38	16.94	15.96	14.95	14.35	13.38	12.86	12.54
48.0	18.88	18.92	18.28	17.64	16.77	15.91	15.71	14.42	13.69	13.48
51.0	18.47	18.97	18.55	18.06	17.22	16.48	16.31	15.15	14.36	14.10
54.0	17.11	18.01	18.05	18.00	17.16	16.43	16.01	15.28	14.64	14.29
57.0	11.98	13.41	13.95	14.73	13.67	13.22	12.67	12.61	12.03	11.67
60.0	6.004	7.416	7.976	8.557	7.603	7.451	6.954	7.235	6.852	6.936
63.0	1.359	2.215	2.699	3.202	2.762	2.741	2.370	2.315	2.053	2.047
66.0	0.0298	0.0149	0.0279	0.0128	0.0322	0.0128	0.0299	0.0128	0.0256	0.0128
69.0	0.0235	0.0149	0.0234	0.0128	0.0234	0.0128	0.0234	0.0128	0.0213	0.0128
72.0	0.0192	0.0149	0.0213	0.0128	0.0192	0.0128	0.0213	0.0128	0.0192	0.0128
75.0	0.0171	0.0149	0.0170	0.0128	0.0192	0.0128	0.0192	0.0128	0.0170	0.0128
78.0	0.0170	0.0149	0.0149	0.0128	0.0128	0.0128	0.0170	0.0128	0.0149	0.0128
81.0	0.0149	0.0149	0.0149	0.0128	0.0128	0.0128	0.0170	0.0128	0.0149	0.0128
84.0	0.0149	0.0149	0.0149	0.0128	0.0128	0.0128	0.0149	0.0128	0.0149	0.0149
87.0	0.0149	0.0149	0.0149	0.0128	0.0128	0.0128	0.0149	0.0149	0.0149	0.0149
90.0	0.0149	0.0149	0.0149	0.0128	0.0128	0.0128	0.0149	0.0149	0.0149	0.0149

G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	5189	5158	5251	5266	5271	5253	5275	5229	5260	5195
3.0	4442	4270	4267	3947	3818	3540	3481	3283	3309	3209
6.0	2181	2033	1993	1747	1743	1501	1538	1363	1459	1358
9.0	820.3	759.1	736.3	656.4	639.3	623.1	584.6	586.3	571.6	596.6
12.0	378.6	365.0	361.1	345.5	346.7	338.8	340.6	334.9	339.1	337.8
15.0	272.3	270.2	271.4	267.6	268.0	264.8	265.1	264.4	266.1	264.8
18.0	238.8	237.1	237.4	233.7	233.2	230.2	229.6	227.6	228.9	228.3
21.0	216.6	215.2	215.5	211.8	210.1	206.0	206.9	205.5	207.3	208.0
24.0	152.6	135.6	126.8	105.5	97.09	82.16	86.77	81.66	89.48	95.73
27.0	22.99	17.22	16.34	14.89	14.68	14.09	14.30	14.39	15.01	15.54
30.0	12.09	12.30	12.51	12.36	12.19	11.83	12.18	12.46	12.79	13.10
33.0	11.67	11.66	11.85	11.82	11.55	11.25	11.80	12.12	12.49	12.81
36.0	11.88	11.66	11.75	11.57	11.43	11.22	11.85	11.75	12.40	12.56
39.0	11.36	11.22	11.36	11.00	11.18	11.20	11.74	11.90	12.38	12.40
42.0	11.93	11.99	12.30	11.73	12.00	12.16	12.68	12.89	13.24	13.30
45.0	12.79	13.15	13.64	12.84	13.15	13.34	13.84	14.15	14.40	14.49
48.0	13.74	14.18	14.67	13.76	14.07	14.15	14.56	14.94	15.14	15.29
51.0	14.32	14.54	14.98	14.22	14.38	14.49	14.79	15.15	15.21	15.33
54.0	14.44	14.25	14.66	14.02	14.00	13.98	14.32	14.63	14.61	14.61
57.0	10.90	10.28	10.58	9.785	9.706	9.206	9.653	9.609	9.996	9.921
60.0	6.239	5.709	5.808	5.030	4.897	4.576	4.933	4.785	5.254	5.020
63.0	1.400	1.299	1.455	1.211	1.323	0.8719	1.061	0.7959	0.9855	0.8864
66.0	0.0256	0.0128	0.0128	0.0235	0.0149	0.0235	0.0128	0.0256	0.0149	0.0256
69.0	0.0213	0.0128	0.0128	0.0192	0.0149	0.0171	0.0128	0.0192	0.0149	0.0192
72.0	0.0213	0.0128	0.0128	0.0170	0.0149	0.0170	0.0128	0.0170	0.0149	0.0171
75.0	0.0192	0.0128	0.0128	0.0149	0.0149	0.0170	0.0128	0.0170	0.0149	0.0149
78.0	0.0170	0.0128	0.0128	0.0149	0.0149	0.0149	0.0128	0.0149	0.0149	0.0149
81.0	0.0149	0.0128	0.0128	0.0149	0.0149	0.0149	0.0128	0.0149	0.0149	0.0149
84.0	0.0149	0.0128	0.0128	0.0149	0.0149	0.0149	0.0128	0.0149	0.0149	0.0149
87.0	0.0149	0.0128	0.0128	0.0149	0.0149	0.0149	0.0128	0.0149	0.0149	0.0149
90.0	0.0128	0.0128	0.0128	0.0149	0.0149	0.0149	0.0149	0.0149	0.0149	0.0149

G/C	300.0	315.0	330.0	345.0
0.0	5224	5162	5189	5158
3.0	3322	3317	3518	3608
6.0	1508	1466	1672	1683
9.0	606.0	619.6	673.5	701.7
12.0	347.8	351.0	364.8	370.5
15.0	267.7	266.0	270.8	270.4
18.0	230.0	229.4	231.6	232.7
21.0	210.6	211.5	214.5	216.0

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.2DEG

Operators: Cao Chengpei

Test Date: 2016-09-26

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	115.0	125.8	144.4	158.6
27.0	16.82	18.28	23.38	27.51
30.0	13.48	14.18	15.44	16.48
33.0	12.99	13.86	15.06	16.03
36.0	12.79	13.79	14.90	15.82
39.0	12.46	13.31	14.42	15.41
42.0	13.24	13.91	15.10	16.17
45.0	14.30	14.70	15.93	17.15
48.0	15.12	15.31	16.54	17.85
51.0	15.24	15.33	16.44	17.66
54.0	14.62	14.60	15.55	16.51
57.0	10.27	10.28	11.07	11.51
60.0	5.304	5.414	5.814	5.757
63.0	1.024	1.040	1.198	1.115
66.0	0.0128	0.0256	0.0149	0.0277
69.0	0.0128	0.0213	0.0149	0.0213
72.0	0.0128	0.0171	0.0149	0.0192
75.0	0.0128	0.0149	0.0149	0.0170
78.0	0.0149	0.0149	0.0149	0.0149
81.0	0.0149	0.0149	0.0149	0.0149
84.0	0.0149	0.0149	0.0149	0.0149
87.0	0.0149	0.0149	0.0149	0.0149
90.0	0.0149	0.0149	0.0149	0.0149

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.2DEG
Operators: Cao Chengpei
Test Date: 2016-09-26

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: