

LED Downlight SENSE Series S68R1-11W-940-N



Light Output Ratio:	100.0%	
Luminaire Power:	12.86 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: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-08-11

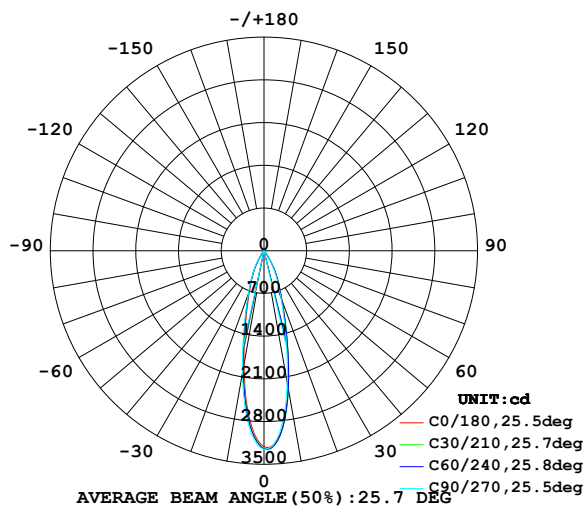
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

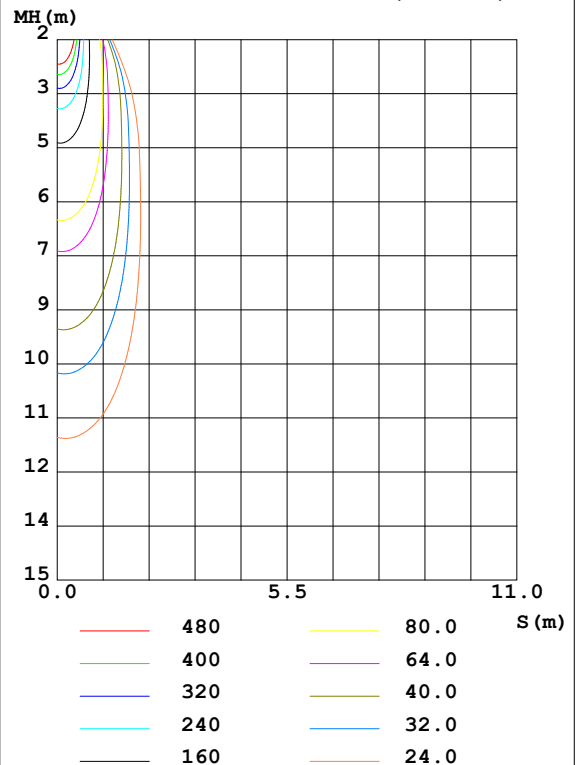
Test:U:220.7V I:0.0654A P:12.86W PF:0.8995 Lamp Flux:914.87x1 lm		
NAME: S68R1-11W-940-N	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: ϕ 78mm*H98mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 71.12 lm/W			
MODEL	CITIZEN-4000K	I _{max} (cd)	3270	S/MH (C0/180)	0.40
NOMINAL POWER (W)	13.0	LOR (%)	100.0	S/MH (C90/270)	0.42
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	914.87	η UP, DN (C0-180)	0.0, 51.8
NOMINAL FLUX (lm)	914.87	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 48.2
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)



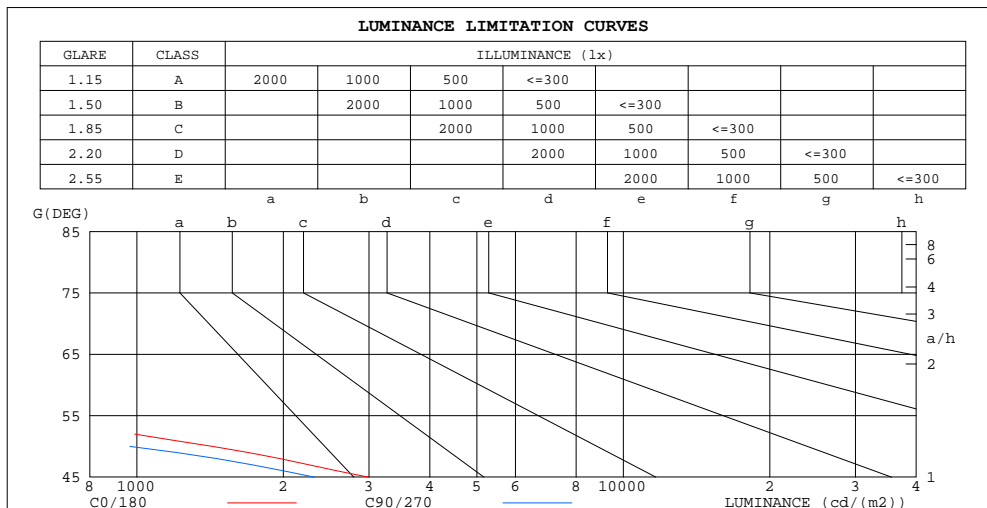
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Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
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Remarks:

**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum, lamp
10	2290	2330	2192	2030	1895	1937	2040	2174	0- 10	252.6	252.6	27.6,27.6
20	865.3	872.4	813.2	728.6	696.2	717.9	750.5	797.3	10- 20	362.4	615.0	67.2,67.2
30	309.1	307.3	267.4	221.7	214.2	224.9	247.9	273.3	20- 30	222.8	837.8	91.6,91.6
40	43.74	37.71	27.52	22.36	24.75	29.19	33.36	37.37	30- 40	66.86	904.6	98.9,98.9
50	4.393	4.049	2.968	2.208	2.277	3.039	3.499	4.421	40- 50	8.787	913.4	99.8,99.8
60	0.4516	0.4364	0.4010	0.2927	0.3449	0.4554	0.4409	0.4010	50- 60	1.132	914.6	100,100
70	0.0875	0.0809	0.1290	0.0918	0.0787	0.0919	0.0611	0.0766	60- 70	0.2052	914.8	100,100
80	0.0503	0.0394	0.0809	0.0459	0.0394	0.0591	0.0306	0.0459	70- 80	0.0685	914.8	100,100
90	0.0394	0.0394	0.0394	0.0394	0.0459	0.0328	0.0241	0.0262	80- 90	0.0448	914.9	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		



LUMINANCE cd/(m2)		
G(°)	C0/180	C90/270
85	100	100
80	61	98
75	51	81
70	54	79
65	101	114
60	189	168
55	340	310
50	1431	967
45	2994	2315

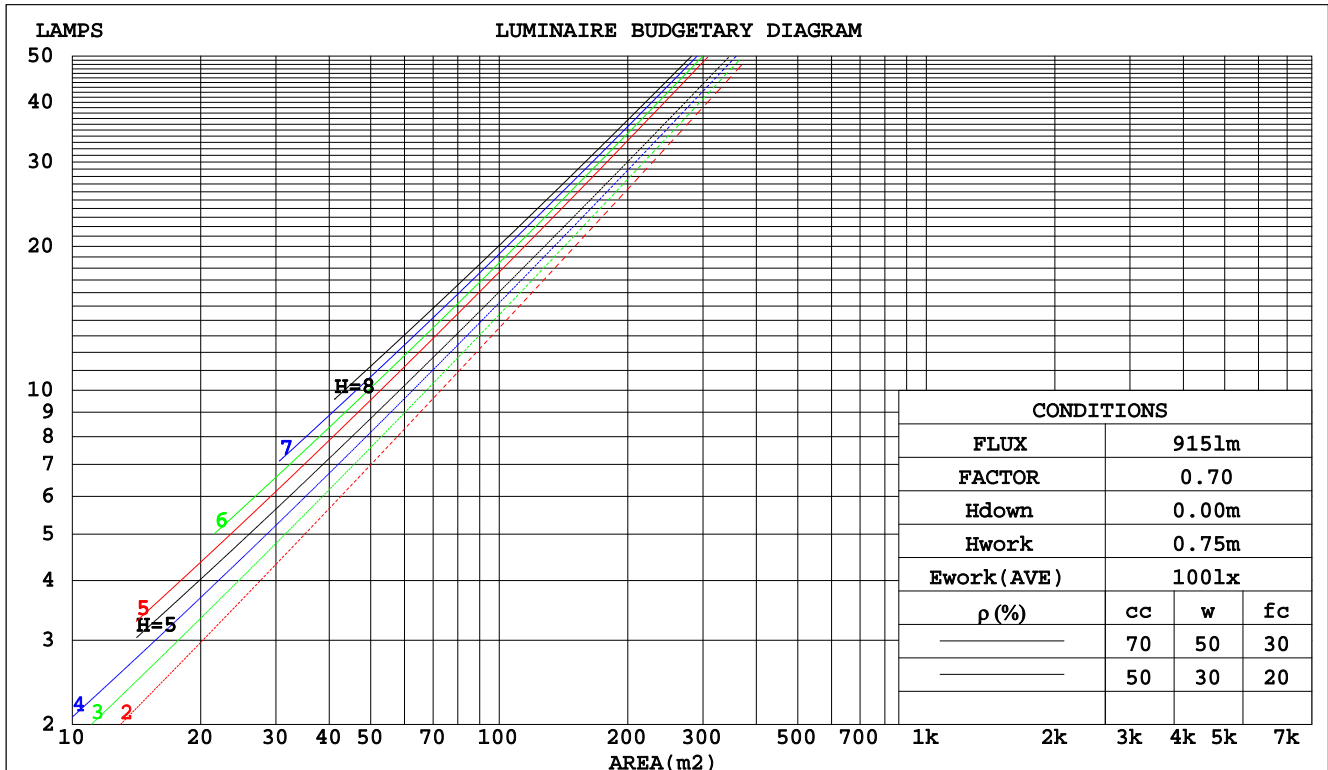
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Temperature:25.3DEG
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γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.7V I:0.0654A P:12.86W PF:0.8995 Lamp Flux:914.87x1 lm		
NAME: S68R1-11W-940-N	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	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	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	1.09	1.10	1.08	1.07	1.06	1.05	1.04	1.03	1.02	1.00	.99	.98	.98	.96
2.0	1.07	1.03	1.01	1.05	1.02	.00	1.02	.99	.97	.99	.97	.95	.96	.95	.93	.92
3.0	1.01	.98	.94	1.00	.97	.94	.98	.95	.92	.95	.93	.91	.93	.91	.89	.88
4.0	.97	.93	.89	.96	.92	.89	.94	.90	.88	.92	.89	.87	.90	.88	.86	.85
5.0	.93	.88	.85	.92	.88	.84	.90	.87	.84	.89	.86	.83	.87	.85	.82	.81
6.0	.89	.84	.81	.88	.84	.81	.87	.83	.80	.86	.82	.80	.84	.81	.79	.78
7.0	.85	.81	.78	.85	.80	.77	.84	.80	.77	.83	.79	.77	.82	.79	.76	.75
8.0	.82	.78	.75	.82	.77	.74	.81	.77	.74	.80	.76	.74	.79	.76	.74	.72
9.0	.79	.75	.72	.79	.75	.72	.78	.74	.71	.77	.74	.71	.77	.73	.71	.70
10.0	.77	.72	.69	.76	.72	.69	.75	.72	.69	.75	.71	.69	.74	.71	.69	.68



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WEC AND CCEC

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SPEC.:4000K	DIM.: φ78mm*H98mm	
MFR.: NEKO LIGHTING AG		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.146	.083	.026	.139	.080	.025	.127	.073	.023	.116	.067	.021	.105	.061	.020	
2.0	.137	.075	.023	.131	.072	.022	.121	.067	.021	.111	.063	.020	.103	.058	.018	
3.0	.128	.068	.020	.124	.066	.020	.115	.062	.019	.107	.059	.018	.100	.055	.017	
4.0	.121	.063	.019	.117	.061	.018	.110	.058	.017	.103	.055	.017	.097	.053	.016	
5.0	.115	.059	.017	.112	.057	.017	.105	.055	.016	.099	.052	.016	.094	.050	.015	
6.0	.109	.055	.016	.106	.054	.015	.101	.052	.015	.096	.050	.015	.091	.048	.014	
7.0	.104	.051	.015	.102	.051	.014	.097	.049	.014	.092	.047	.014	.088	.046	.013	
8.0	.100	.049	.014	.097	.048	.014	.093	.047	.013	.089	.045	.013	.086	.044	.013	
9.0	.095	.046	.013	.093	.046	.013	.090	.044	.013	.086	.043	.012	.083	.042	.012	
10.0	.092	.044	.012	.090	.043	.012	.087	.042	.012	.083	.041	.012	.080	.040	.012	

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pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	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	.127	.099	.093	.088	.057	.054	.051	.018	.017	.016	
2.0	.152	.133	.117	.130	.114	.101	.089	.079	.070	.051	.046	.041	.016	.015	.013	
3.0	.137	.113	.094	.118	.098	.082	.081	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.125	.098	.077	.108	.085	.067	.074	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.115	.086	.064	.099	.074	.056	.068	.052	.040	.040	.031	.023	.013	.010	.008	
6.0	.107	.076	.054	.092	.066	.047	.063	.046	.033	.037	.027	.020	.012	.009	.007	
7.0	.100	.068	.046	.086	.059	.040	.059	.041	.028	.034	.024	.017	.011	.008	.006	
8.0	.093	.062	.040	.080	.053	.035	.056	.037	.025	.032	.022	.015	.010	.007	.005	
9.0	.088	.056	.034	.076	.049	.030	.053	.034	.021	.031	.020	.013	.010	.007	.004	
10.0	.083	.051	.030	.072	.045	.026	.050	.031	.019	.029	.019	.011	.009	.006	.004	

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

UGR(Unified Glare Rating) Table

Test:U:220.7V I:0.0654A P:12.86W PF:0.8995 Lamp Flux:914.87x1 lm										
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SPEC.:4000K					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	12.6	13.3	12.8	13.5	13.6	11.6	12.3	11.8	12.4	12.6
3H	12.4	13.1	12.7	13.3	13.5	11.4	12.1	11.6	12.3	12.4
4H	12.3	13.0	12.6	13.2	13.4	11.3	12.0	11.6	12.2	12.4
6H	12.3	12.9	12.5	13.1	13.3	11.2	11.8	11.5	12.1	12.3
8H	12.2	12.8	12.5	13.0	13.3	11.2	11.8	11.5	12.0	12.3
12H	12.2	12.7	12.5	13.0	13.3	11.1	11.7	11.5	12.0	12.2
4H 2H	12.3	13.0	12.6	13.2	13.4	11.3	12.0	11.6	12.2	12.4
3H	12.2	12.7	12.5	13.0	13.3	11.1	11.7	11.5	12.0	12.2
4H	12.1	12.6	12.4	12.9	13.2	11.1	11.6	11.4	11.8	12.2
6H	12.0	12.4	12.3	12.7	13.1	11.0	11.4	11.3	11.7	12.1
8H	11.9	12.3	12.3	12.7	13.0	10.9	11.3	11.3	11.7	12.0
12H	11.9	12.2	12.3	12.6	13.0	10.8	11.2	11.2	11.6	12.0
8H 4H	11.9	12.3	12.3	12.7	13.0	10.9	11.3	11.3	11.7	12.0
6H	11.8	12.2	12.2	12.5	13.0	10.8	11.1	11.2	11.5	11.9
8H	11.7	12.1	12.2	12.5	12.9	10.7	11.0	11.2	11.4	11.9
12H	11.7	11.9	12.2	12.4	12.9	10.7	10.9	11.1	11.4	11.8
12H 4H	11.9	12.2	12.3	12.6	13.0	10.8	11.2	11.2	11.6	12.0
6H	11.7	12.1	12.2	12.5	12.9	10.7	11.0	11.2	11.4	11.9
8H	11.7	11.9	12.2	12.4	12.9	10.7	10.9	11.1	11.4	11.8
Variations with the observer position at spacings:										
S = 1.0H	+ 3.9 / -20.4					+ 3.8 / -18.4				
1.5H	+ 6.5 / -17.5					+ 6.4 / -15.8				
2.0H	+ 6.6 / -11.9					+ 6.4 / -10.0				

CIE Pub.117 Corrected 914.9 lm Total Lamp Luminous Flux. (8log(F/F0) = -0.3)

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Humidity:52%
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Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.7V I:0.0654A P:12.86W PF:0.8995 Lamp Flux:914.87x1 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	90	85	82	90	85	82	78
0.80	98	93	89	97	92	89	96	92	89	86
1.00	102	97	93	101	96	93	99	96	93	89
1.25	105	101	97	104	100	97	102	99	96	92
1.50	108	103	100	106	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	112	110	109	109	107	106	99
5.00	116	114	112	114	112	110	110	108	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):

911.17 lm

%lum = 99.6%

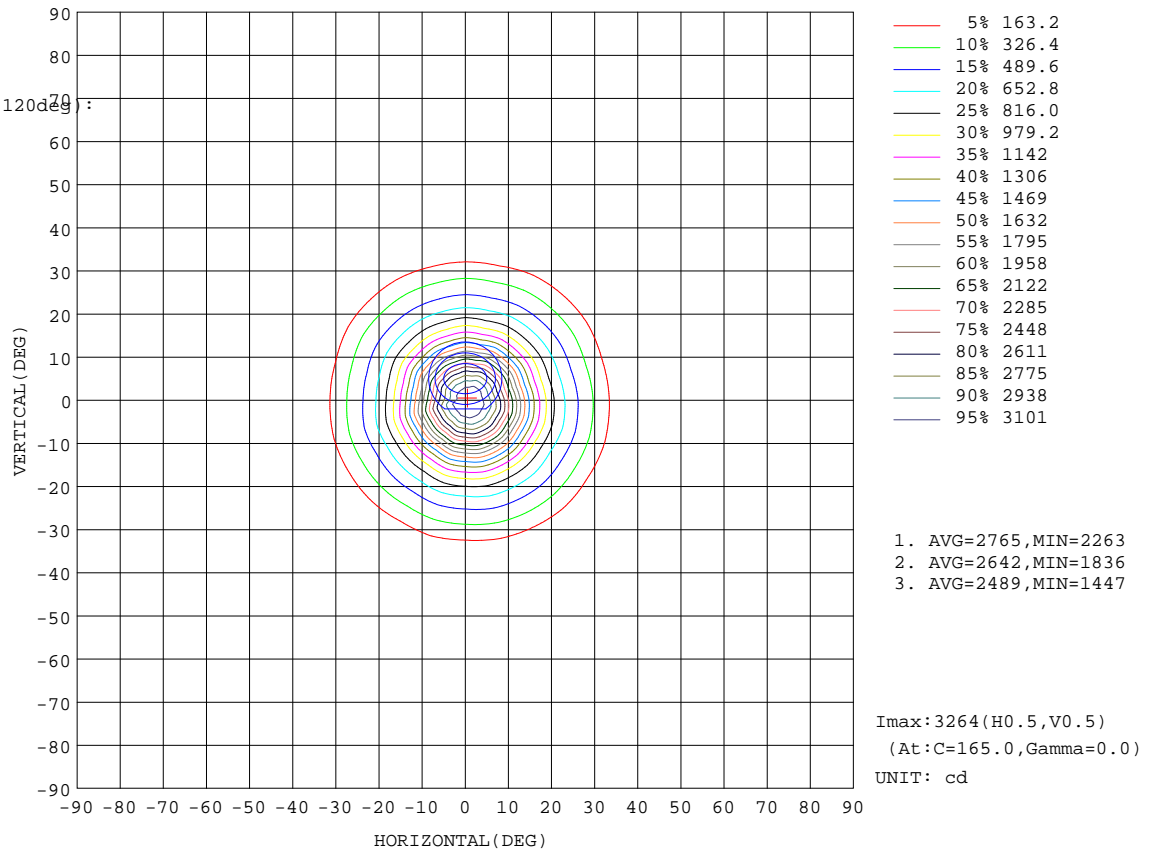
%lamp = 99.6%

Conical surface Flux(120deg):

914.55 lm

%lum = 100.0%

%lamp = 100.0%



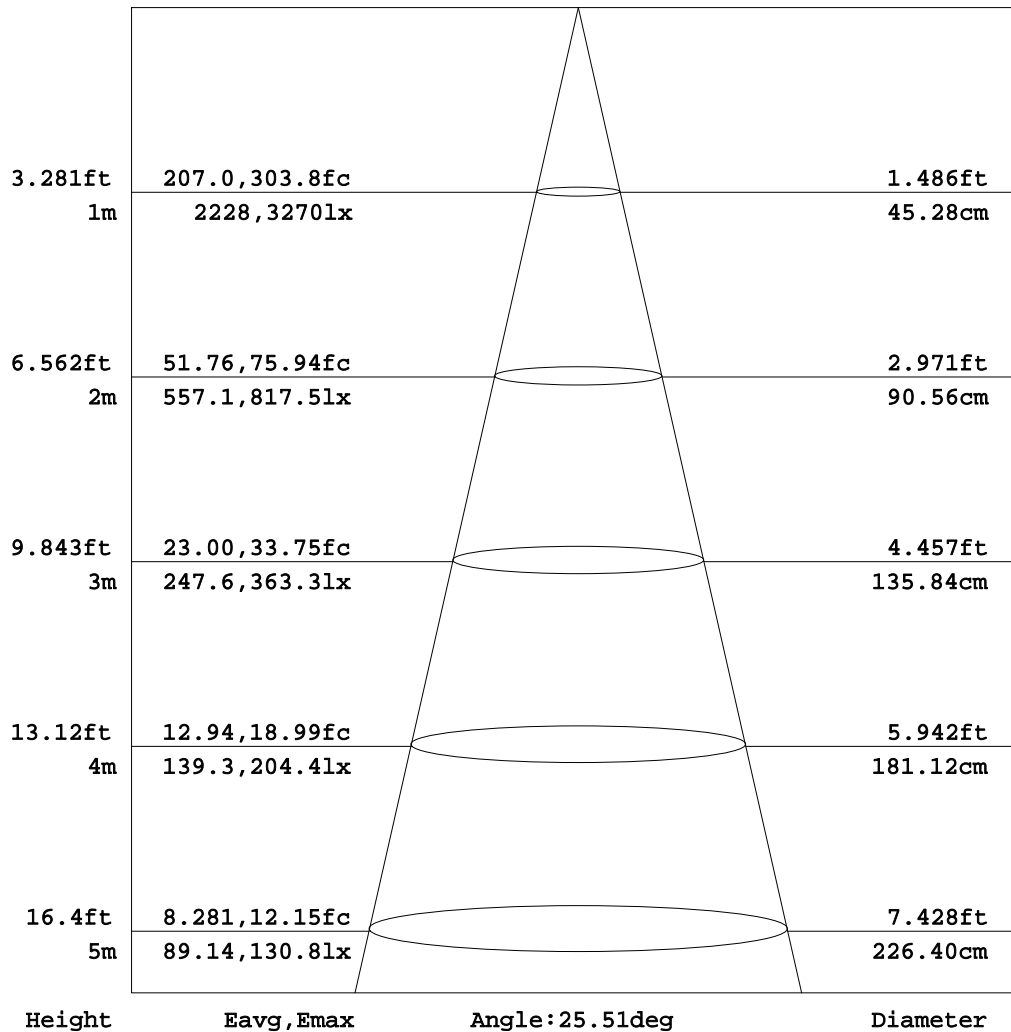
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AAI Figure

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Flux out:373.2 lm



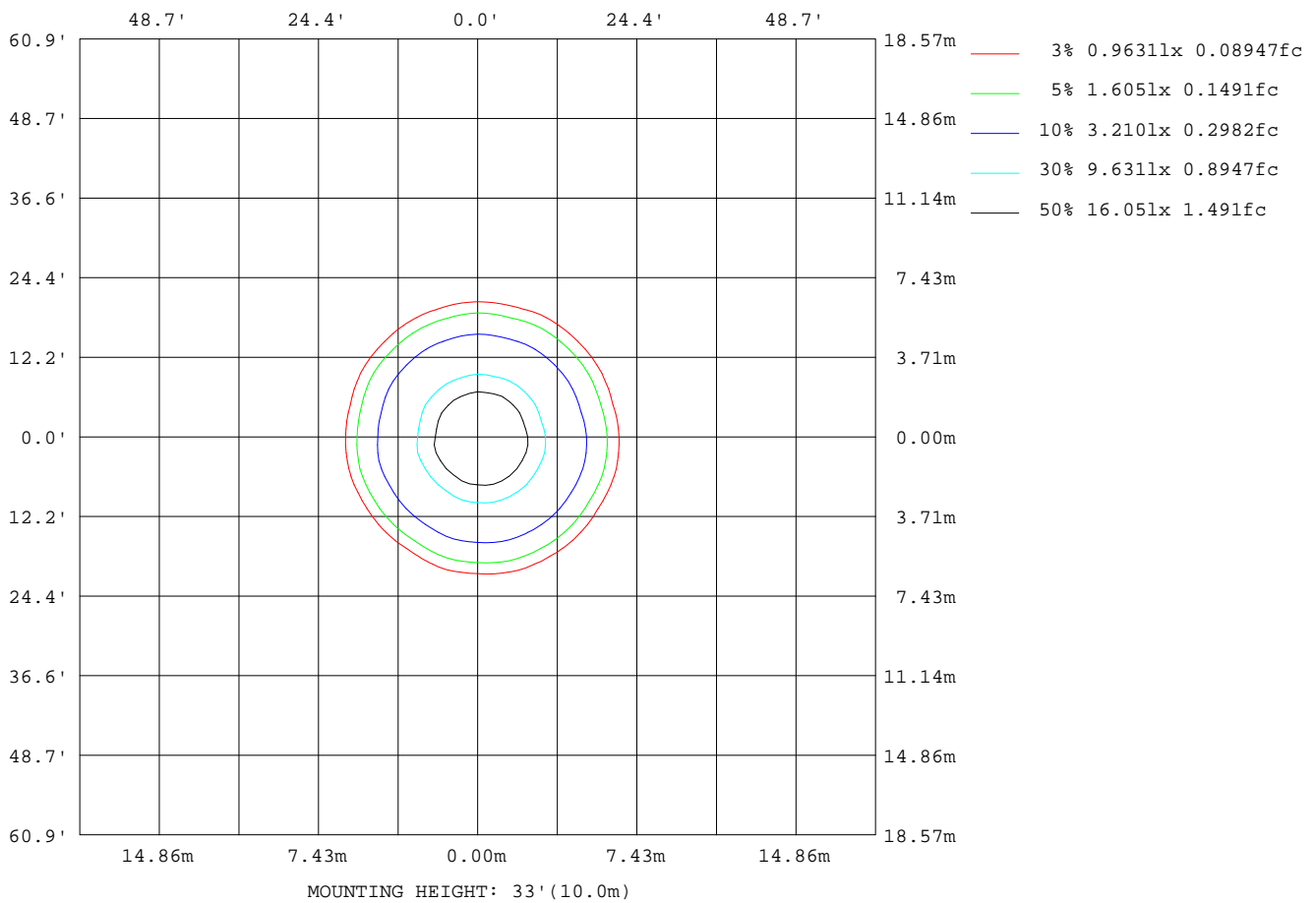
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

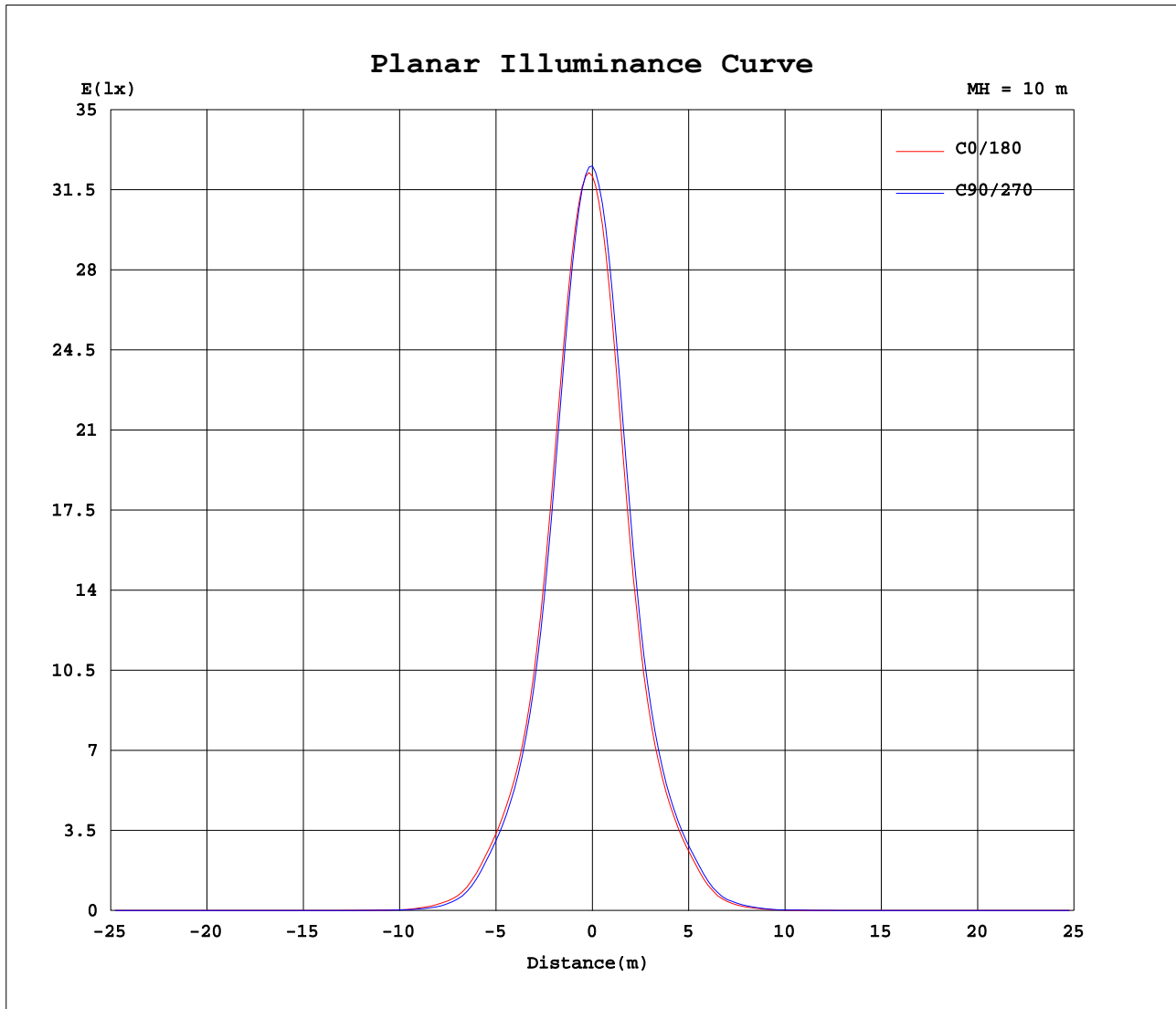
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Planar Illuminance Curve



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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	3210	3216	3236	3239	3246	3246	3254	3254	3262	3267
3.0	3176	3201	3195	3207	3199	3194	3167	3159	3115	3111
6.0	2915	2958	2931	2948	2924	2913	2854	2840	2754	2740
9.0	2464	2525	2480	2506	2470	2458	2372	2354	2234	2219
12.0	1933	1990	1943	1971	1941	1923	1832	1806	1690	1672
15.0	1437	1492	1447	1474	1442	1433	1353	1331	1236	1217
18.0	1055	1091	1060	1074	1050	1044	994.7	977.9	904.3	890.8
21.0	787.6	810.0	785.2	792.8	777.0	773.0	735.9	722.1	671.9	661.8
24.0	603.1	618.7	594.0	602.3	590.2	586.8	551.9	544.2	503.6	496.5
27.0	449.8	462.6	449.1	449.5	439.5	432.6	408.5	396.5	362.7	356.7
30.0	309.1	322.1	305.3	307.3	296.8	290.5	267.4	257.4	223.7	221.7
33.0	176.6	185.4	169.0	172.6	164.3	161.4	143.6	141.4	115.2	110.5
36.0	97.18	101.2	93.43	93.11	87.24	83.73	73.11	67.74	57.08	54.89
39.0	55.36	57.36	51.11	48.39	42.83	39.93	34.76	32.13	27.33	27.30
42.0	26.54	27.72	24.26	23.24	21.09	19.81	17.55	16.66	13.69	13.76
45.0	10.11	10.52	9.616	9.387	8.814	8.545	7.818	7.645	6.781	6.570
48.0	6.288	6.467	6.049	5.701	5.391	5.185	4.663	4.479	3.829	3.668
51.0	3.557	3.732	3.455	3.309	2.989	2.679	2.321	2.190	1.843	1.739
54.0	1.461	1.708	1.443	1.480	1.171	1.018	0.9183	0.8719	0.8165	0.7693
57.0	0.8074	0.8258	0.8403	0.7951	0.7703	0.7468	0.7072	0.6637	0.5916	0.5676
60.0	0.4516	0.4887	0.4474	0.4364	0.4296	0.4124	0.4010	0.3536	0.3200	0.2927
63.0	0.2540	0.2598	0.2758	0.2600	0.2866	0.2709	0.2694	0.2490	0.2517	0.2184
66.0	0.1796	0.1638	0.1777	0.2051	0.2276	0.1791	0.2015	0.1791	0.1839	0.1507
69.0	0.0944	0.0873	0.1031	0.0874	0.1140	0.0984	0.1313	0.1180	0.1334	0.0940
72.0	0.0766	0.0633	0.0875	0.0699	0.0984	0.0809	0.1160	0.1005	0.1203	0.0831
75.0	0.0635	0.0437	0.0744	0.0612	0.0853	0.0699	0.1006	0.0852	0.1051	0.0787
78.0	0.0525	0.0394	0.0635	0.0459	0.0744	0.0590	0.0897	0.0743	0.0962	0.0699
81.0	0.0460	0.0394	0.0503	0.0394	0.0634	0.0394	0.0636	0.0545	0.0918	0.0394
84.0	0.0415	0.0394	0.0437	0.0394	0.0438	0.0394	0.0460	0.0394	0.0591	0.0394
87.0	0.0394	0.0394	0.0437	0.0394	0.0416	0.0394	0.0394	0.0394	0.0415	0.0394
90.0	0.0394	0.0394	0.0437	0.0394	0.0415	0.0415	0.0394	0.0394	0.0394	0.0394
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	3267	3270	3216	3236	3239	3246	3246	3254	3254	3267
3.0	3098	3116	3007	2999	3045	3040	3058	3062	3100	3107
6.0	2715	2743	2604	2580	2652	2642	2674	2673	2735	2743
9.0	2185	2222	2077	2051	2130	2118	2153	2150	2222	2225
12.0	1638	1673	1558	1535	1608	1600	1633	1626	1687	1682
15.0	1192	1220	1143	1128	1187	1178	1202	1194	1237	1231
18.0	877.9	895.2	844.1	839.8	884.5	872.6	886.3	881.6	914.1	903.8
21.0	650.6	667.8	632.6	631.4	661.0	655.6	664.9	661.8	680.6	677.0
24.0	483.5	500.2	474.5	471.0	493.3	492.4	499.2	499.3	512.0	510.1
27.0	351.5	364.0	344.9	342.1	361.8	359.7	365.9	365.3	378.3	373.4
30.0	220.2	227.1	214.2	208.6	229.3	224.9	233.2	233.1	247.9	243.7
33.0	108.8	114.1	111.5	110.7	125.9	122.3	130.5	126.0	136.2	130.9
36.0	53.87	57.46	58.02	61.88	68.06	69.63	71.97	71.89	74.89	73.94
39.0	27.42	29.03	30.58	31.56	36.24	36.64	38.82	39.06	41.58	40.95
42.0	13.72	14.88	15.13	14.82	17.32	17.20	18.36	18.58	20.10	19.82
45.0	6.217	6.526	6.489	6.644	7.487	7.544	7.994	8.111	8.579	8.610
48.0	3.418	3.640	3.714	3.807	4.455	4.568	4.925	4.962	5.187	5.235
51.0	1.628	1.656	1.834	1.998	2.393	2.517	2.735	2.735	2.839	2.829
54.0	0.7815	0.7780	0.8303	0.9109	0.9176	0.9403	0.9612	0.9803	0.9568	0.9286
57.0	0.5674	0.5808	0.6220	0.6831	0.7290	0.7484	0.7619	0.7769	0.7640	0.7221
60.0	0.3047	0.3057	0.3449	0.3898	0.4146	0.4554	0.4584	0.4576	0.4409	0.4008
63.0	0.2277	0.2141	0.2511	0.2561	0.2751	0.3501	0.3604	0.3653	0.2860	0.2714
66.0	0.1534	0.1397	0.1658	0.1686	0.1484	0.1800	0.1831	0.1994	0.1614	0.1642
69.0	0.0919	0.0677	0.0852	0.0897	0.0655	0.0963	0.0722	0.0898	0.0634	0.0811
72.0	0.0810	0.0524	0.0699	0.0701	0.0546	0.0853	0.0655	0.0788	0.0459	0.0678
75.0	0.0744	0.0437	0.0589	0.0612	0.0437	0.0831	0.0568	0.0700	0.0393	0.0591
78.0	0.0657	0.0437	0.0394	0.0503	0.0394	0.0743	0.0437	0.0569	0.0306	0.0525
81.0	0.0503	0.0438	0.0438	0.0394	0.0394	0.0482	0.0349	0.0503	0.0306	0.0438
84.0	0.0480	0.0613	0.0459	0.0372	0.0437	0.0394	0.0262	0.0372	0.0284	0.0372
87.0	0.0742	0.0787	0.0459	0.0437	0.0437	0.0372	0.0262	0.0350	0.0241	0.0328
90.0	0.0787	0.0787	0.0459	0.0437	0.0437	0.0328	0.0284	0.0262	0.0241	0.0284
G/C	300.0	315.0	330.0	345.0						
0.0	3262	3267	3267	3270						
3.0	3164	3176	3189	3176						
6.0	2843	2855	2883	2861						
9.0	2345	2360	2397	2369						
12.0	1801	1811	1854	1829						
15.0	1313	1329	1365	1349						
18.0	959.2	975.9	1004	991.1						
21.0	714.4	726.2	744.7	741.8						

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng Yongjian
 Test Date: 2017-08-11

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	539.3	548.2	562.1	563.1
27.0	397.4	405.7	420.1	415.4
30.0	269.7	273.3	286.5	281.1
33.0	149.7	155.0	163.7	160.4
36.0	81.50	83.55	87.98	88.65
39.0	46.13	46.55	49.32	49.70
42.0	23.26	23.38	24.15	23.30
45.0	9.615	9.794	9.819	9.281
48.0	6.038	6.318	6.297	5.930
51.0	3.337	3.585	3.697	3.381
54.0	1.283	1.201	1.284	1.148
57.0	0.7378	0.8008	0.8077	0.7680
60.0	0.3881	0.4010	0.4011	0.4097
63.0	0.2248	0.2407	0.2205	0.2517
66.0	0.1462	0.1663	0.1419	0.1708
69.0	0.0612	0.0812	0.0611	0.0855
72.0	0.0481	0.0656	0.0437	0.0700
75.0	0.0393	0.0569	0.0306	0.0591
78.0	0.0284	0.0503	0.0284	0.0503
81.0	0.0284	0.0416	0.0262	0.0416
84.0	0.0262	0.0372	0.0262	0.0350
87.0	0.0262	0.0328	0.0262	0.0306
90.0	0.0262	0.0262	0.0262	0.0284

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-08-11

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: