

LED Downlight SENSE Series S100R2-13W-930-M



Light Output Ratio:	100.0%	
Luminaire Power:	14.35 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.60	fine grid method.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-05-12

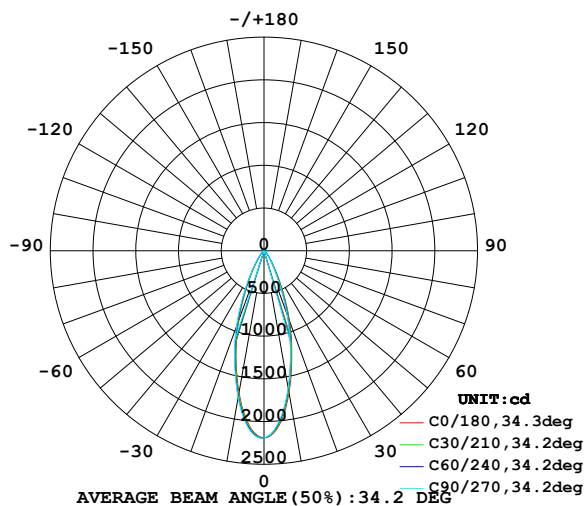
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

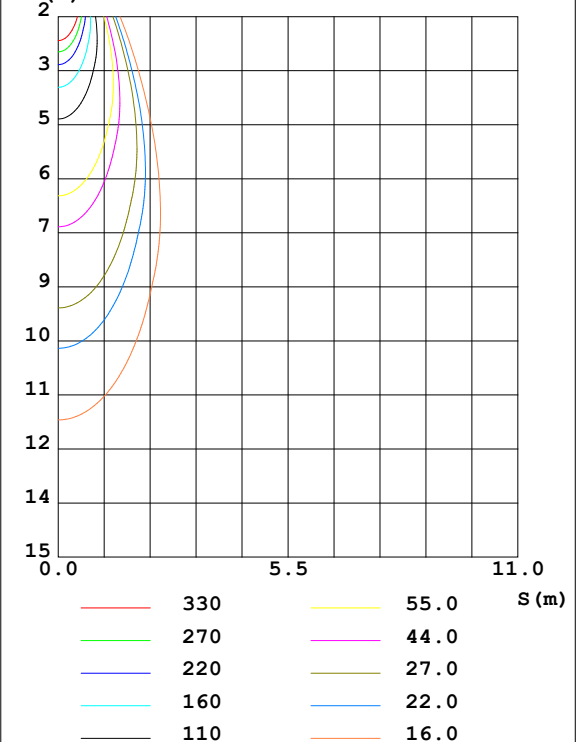
Test:U:220.7V I:0.0712A P:14.35W PF:0.9136 Lamp Flux:905.028x1 lm		
NAME: S100R2-13W-930-M	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: ϕ 108mm*H126mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 63.07 lm/W			
MODEL	CITIZEN-3000K	I _{max} (cd)	2196	S/MH (C0/180)	0.56
NOMINAL POWER (W)	15	LOR (%)	100.0	S/MH (C90/270)	0.58
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	905.03	η UP, DN (C0-180)	0.0, 47.9
NOMINAL FLUX (lm)	905.028	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 52.1
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	0.60

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



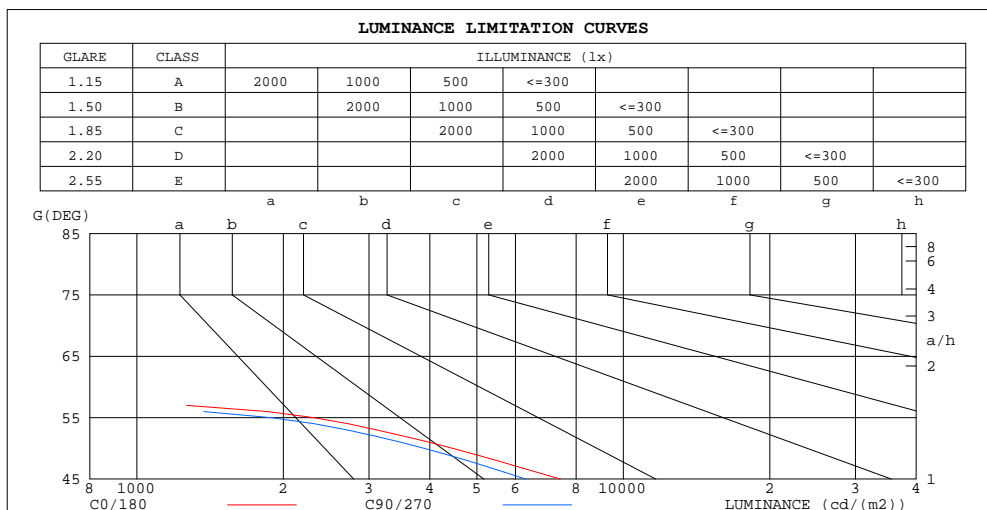
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Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
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Remarks:

**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	1689	1664	1634	1649	1689	1712	1746	1734	0- 10	183.8	183.8	20.3,20.3
20	873.1	828.0	790.7	810.0	862.4	896.6	938.2	927.3	10- 20	347.6	531.4	58.7,58.7
30	276.0	250.0	230.3	240.5	269.2	283.8	297.7	295.8	20- 30	235.5	767.0	84.7,84.7
40	81.25	75.74	68.21	66.98	72.98	78.49	83.33	84.49	30- 40	92.88	859.8	95,95
50	26.27	26.23	22.95	19.81	20.39	22.97	26.04	26.60	40- 50	35.20	895.0	98.9,98.9
60	0.9929	0.9740	0.9110	0.9019	0.9627	0.9676	1.044	1.027	50- 60	9.325	904.4	99.9,99.9
70	0.2365	0.2074	0.2059	0.1790	0.1898	0.2277	0.2728	0.2627	60- 70	0.5119	904.9	100,100
80	0.0438	0.0350	0.0394	0.0350	0.0328	0.0372	0.0306	0.0394	70- 80	0.1061	905.0	100,100
90	0.1399	0.0459	0.0372	0.0372	0.0262	0.0262	0.0241	0.0262	80- 90	0.0440	905.0	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	139	47
80	28	25
75	43	36
70	76	66
65	124	115
60	217	199
55	2311	1890
50	4464	3899
45	7419	6307

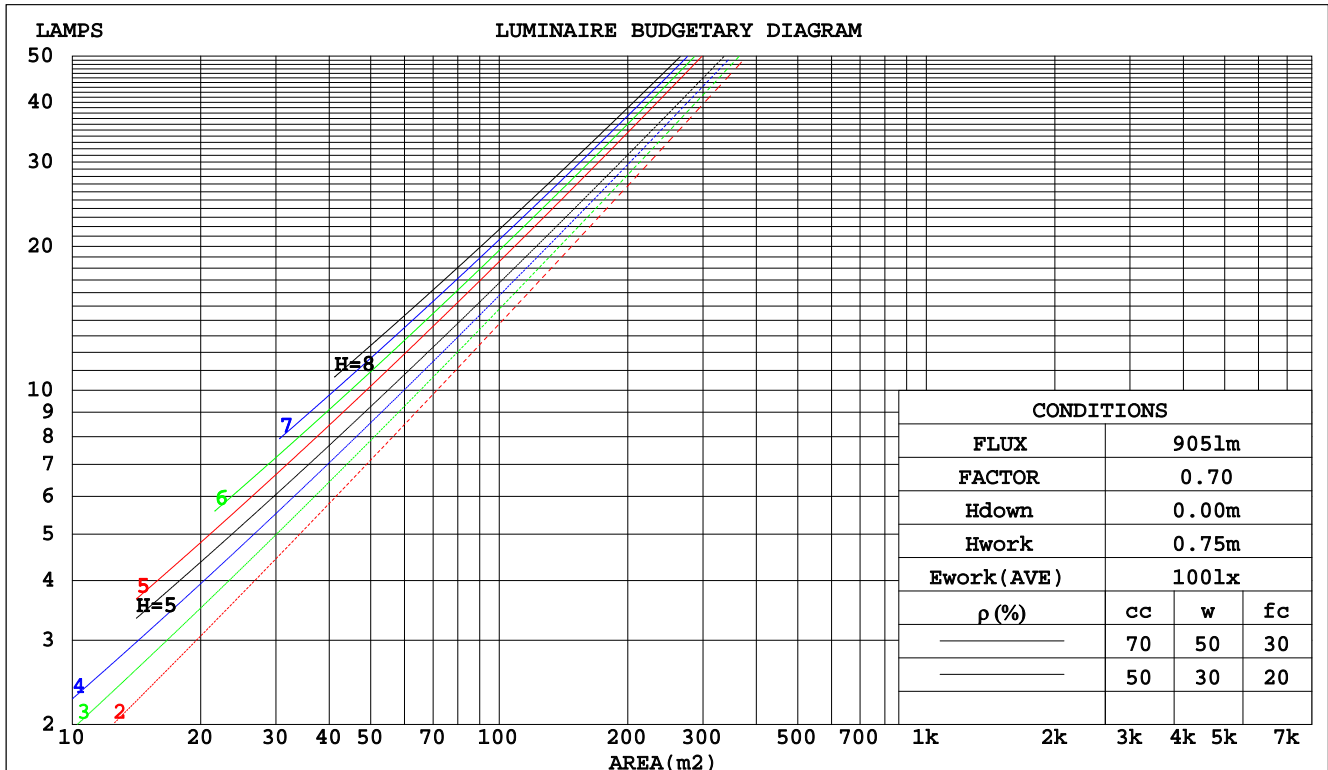
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γ Range: 0 - 90DEG
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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.7V I:0.0712A P:14.35W PF:0.9136 Lamp Flux:905.028x1 lm		
NAME: S100R2-13W-930-M	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: ϕ 108mm*H126mm	
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	.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	1.05	1.02	.99	1.04	1.00	.98	1.00	.98	.96	.97	.95	.94	.95	.93	.92	.90
3.0	.99	.95	.92	.98	.94	.91	.96	.92	.90	.93	.90	.88	.91	.89	.87	.85
4.0	.94	.89	.86	.93	.89	.85	.91	.87	.84	.89	.86	.83	.87	.85	.82	.81
5.0	.89	.84	.81	.89	.84	.80	.87	.83	.80	.85	.82	.79	.84	.81	.78	.77
6.0	.85	.80	.76	.84	.80	.76	.83	.79	.76	.82	.78	.75	.80	.77	.75	.73
7.0	.81	.76	.73	.81	.76	.72	.79	.75	.72	.78	.74	.72	.77	.74	.71	.70
8.0	.78	.73	.69	.77	.72	.69	.76	.72	.69	.75	.71	.68	.74	.71	.68	.67
9.0	.74	.69	.66	.74	.69	.66	.73	.69	.66	.72	.68	.65	.71	.68	.65	.64
10.0	.71	.66	.63	.71	.66	.63	.70	.66	.63	.70	.66	.63	.69	.65	.63	.61



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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	.158	.090	.028	.151	.086	.027	.139	.080	.025	.127	.073	.024	.117	.068	.022		
2.0	.149	.082	.025	.144	.079	.024	.133	.074	.023	.124	.069	.022	.115	.065	.021		
3.0	.141	.075	.023	.137	.073	.022	.128	.069	.021	.120	.066	.020	.112	.062	.019		
4.0	.134	.070	.020	.130	.068	.020	.122	.065	.019	.115	.062	.019	.109	.059	.018		
5.0	.127	.065	.019	.124	.064	.019	.117	.061	.018	.111	.059	.017	.106	.056	.017		
6.0	.121	.061	.017	.118	.060	.017	.113	.058	.017	.107	.056	.016	.102	.054	.016		
7.0	.116	.057	.016	.113	.056	.016	.108	.055	.016	.103	.053	.015	.099	.051	.015		
8.0	.111	.054	.015	.108	.053	.015	.104	.052	.015	.100	.051	.015	.096	.049	.014		
9.0	.106	.051	.014	.104	.051	.014	.100	.049	.014	.096	.048	.014	.093	.047	.014		
10.0	.102	.049	.014	.100	.048	.013	.096	.047	.013	.093	.046	.013	.090	.045	.013		

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	.170	.157	.146	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.153	.133	.115	.131	.114	.100	.090	.079	.069	.052	.046	.041	.017	.015	.013	
3.0	.140	.113	.092	.120	.098	.080	.082	.068	.056	.047	.040	.033	.015	.013	.011	
4.0	.128	.098	.075	.110	.085	.066	.076	.059	.046	.044	.035	.027	.014	.011	.009	
5.0	.119	.086	.062	.102	.075	.054	.070	.052	.038	.041	.031	.023	.013	.010	.008	
6.0	.111	.077	.052	.095	.067	.046	.066	.047	.032	.038	.027	.019	.012	.009	.006	
7.0	.104	.069	.045	.089	.060	.039	.062	.042	.028	.036	.025	.016	.012	.008	.005	
8.0	.098	.063	.038	.084	.054	.033	.058	.038	.024	.034	.022	.014	.011	.007	.005	
9.0	.093	.057	.033	.080	.050	.029	.055	.035	.021	.032	.021	.012	.010	.007	.004	
10.0	.088	.053	.029	.076	.046	.025	.053	.032	.018	.031	.019	.011	.010	.006	.004	

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 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:220.7V I:0.0712A P:14.35W PF:0.9136 Lamp Flux:905.028x1 lm										
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SPEC.:3000K					DIM.: ϕ 108mm*H126mm					
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	12.5	13.3	12.7	13.5	13.6	11.8	12.6	12.0	12.8	12.9
3H	12.4	13.1	12.6	13.3	13.5	11.6	12.4	11.9	12.6	12.8
4H	12.3	13.0	12.5	13.2	13.4	11.5	12.3	11.8	12.5	12.7
6H	12.2	12.8	12.5	13.1	13.3	11.5	12.1	11.7	12.4	12.6
8H	12.1	12.8	12.4	13.0	13.3	11.4	12.1	11.7	12.3	12.6
12H	12.1	12.7	12.4	13.0	13.2	11.4	12.0	11.7	12.2	12.5
4H 2H	12.3	13.0	12.6	13.2	13.4	11.6	12.3	11.8	12.5	12.7
3H	12.1	12.7	12.4	13.0	13.3	11.4	12.0	11.7	12.3	12.5
4H	12.0	12.6	12.4	12.9	13.2	11.3	11.9	11.6	12.2	12.5
6H	11.9	12.4	12.3	12.7	13.1	11.2	11.7	11.6	12.0	12.4
8H	11.9	12.3	12.3	12.7	13.0	11.2	11.6	11.5	12.0	12.3
12H	11.8	12.2	12.2	12.6	13.0	11.1	11.5	11.5	11.9	12.3
8H 4H	11.9	12.3	12.3	12.7	13.0	11.2	11.6	11.5	12.0	12.3
6H	11.8	12.1	12.2	12.5	12.9	11.0	11.4	11.5	11.8	12.2
8H	11.7	12.0	12.1	12.5	12.9	11.0	11.3	11.4	11.7	12.2
12H	11.6	11.9	12.1	12.4	12.8	10.9	11.2	11.4	11.7	12.1
12H 4H	11.8	12.2	12.2	12.6	13.0	11.1	11.5	11.5	11.9	12.3
6H	11.7	12.0	12.1	12.5	12.9	11.0	11.3	11.4	11.7	12.2
8H	11.6	11.9	12.1	12.4	12.8	10.9	11.2	11.4	11.7	12.1
Variations with the observer position at spacings:										
S = 1.0H	+ 3.0 / -12.9					+ 2.6 / -13.3				
1.5H	+ 4.0 / - 5.6					+ 3.4 / - 5.3				
2.0H	+ 5.6 / -19.1					+ 5.3 / -18.9				

CIE Pub.117 Corrected 905.0 lm Total Lamp Luminous Flux.(8log(F/F0) = -0.3)

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 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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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	79	88	82	78	87	82	78	75
0.80	96	90	86	95	90	86	94	89	86	82
1.00	100	95	91	99	94	91	98	94	90	87
1.25	104	99	96	103	98	95	101	97	94	90
1.50	107	102	99	105	101	98	103	100	97	93
2.00	109	105	102	108	104	101	105	102	100	95
2.50	111	107	104	109	106	103	106	103	101	96
3.00	112	109	106	110	107	105	107	105	103	97
4.00	114	111	109	112	110	108	108	107	105	98
5.00	115	113	111	113	111	110	109	108	107	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):

881.68 lm

%lum = 97.4%

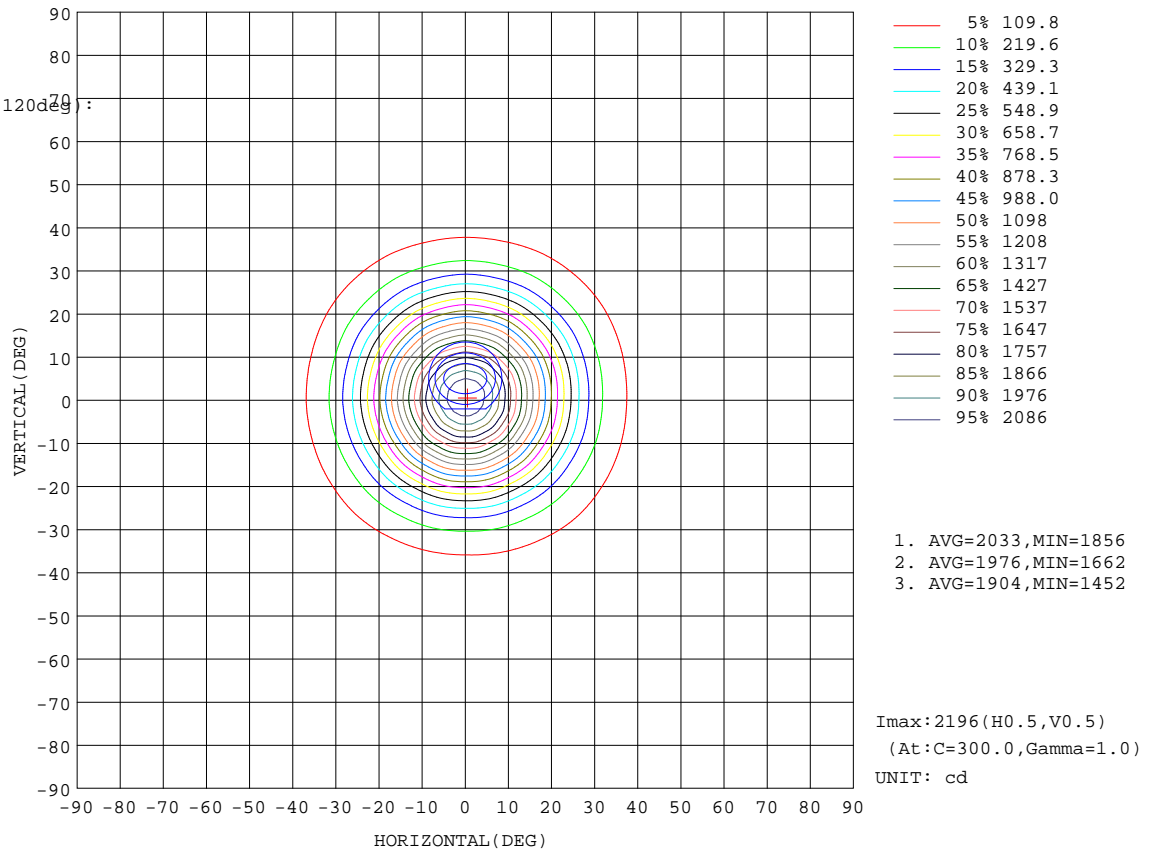
%lamp = 97.4%

Conical surface Flux(120deg):

904.37 lm

%lum = 99.9%

%lamp = 99.9%



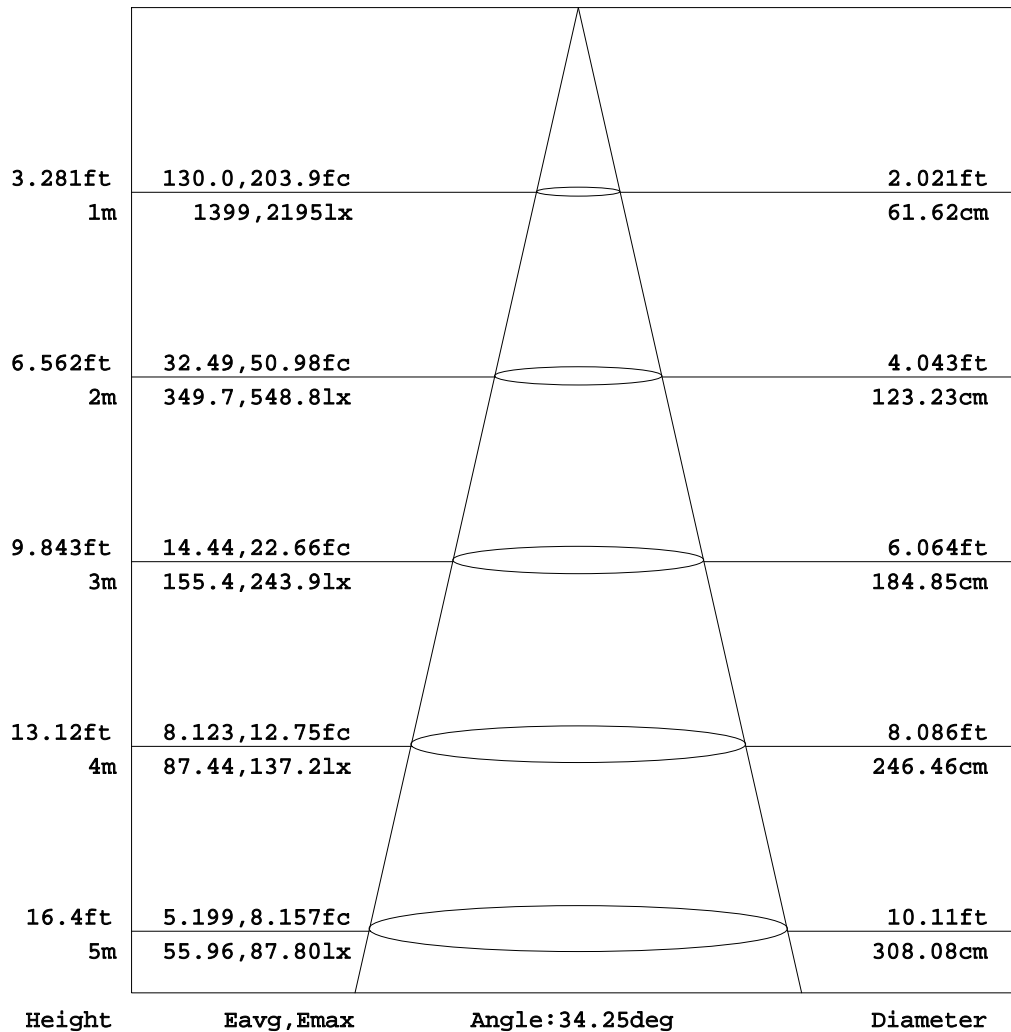
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AAI Figure

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Flux out:464.0 lm



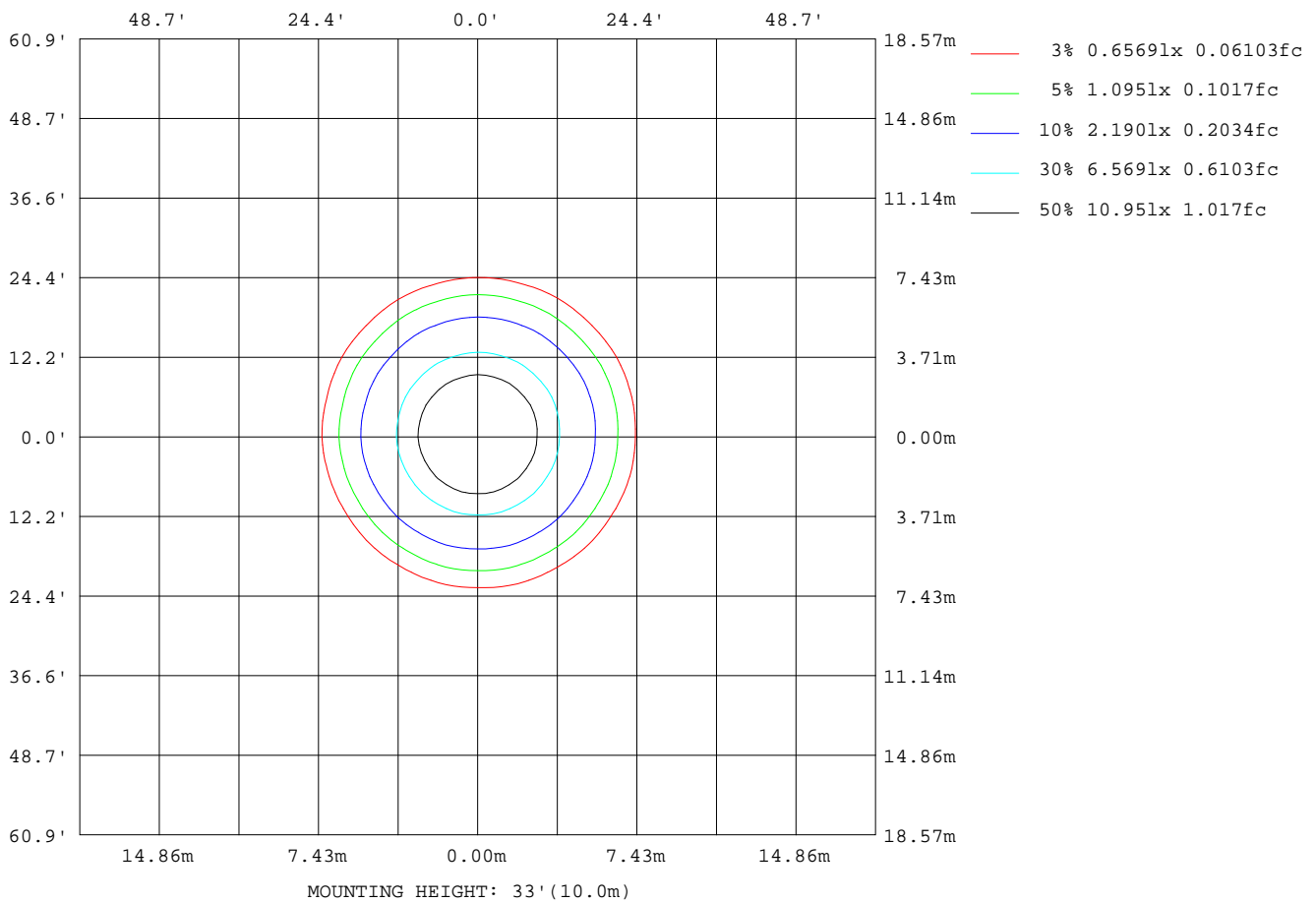
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

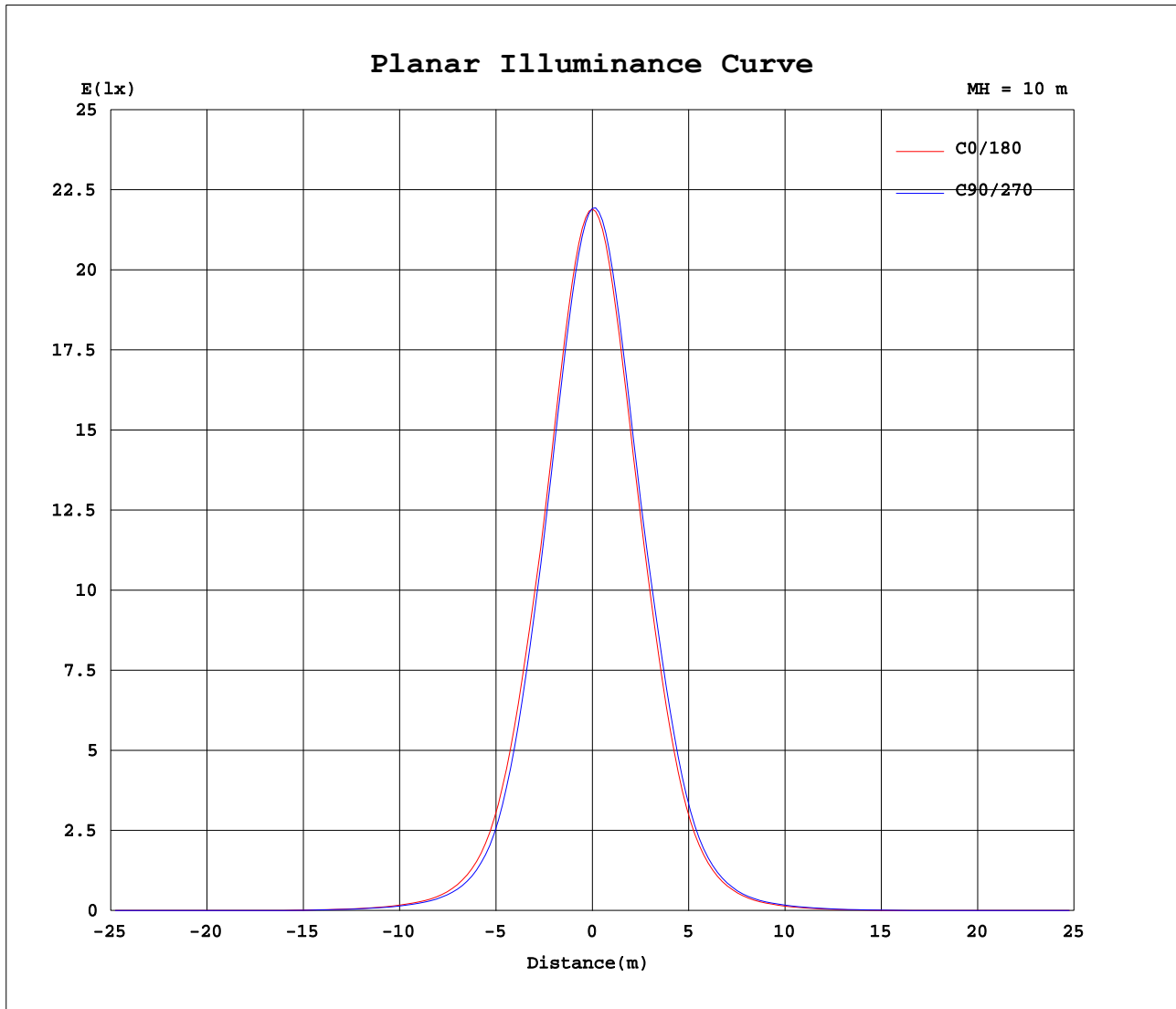
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Planar Illuminance Curve



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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	2190	2190	2191	2191	2192	2192	2192	2194	2193	2195
3.0	2138	2137	2128	2128	2119	2121	2114	2118	2114	2121
6.0	1990	1988	1971	1971	1956	1957	1946	1952	1946	1957
9.0	1771	1770	1747	1748	1728	1733	1717	1727	1718	1733
12.0	1516	1513	1490	1489	1469	1474	1460	1471	1462	1478
15.0	1258	1254	1228	1226	1207	1212	1198	1210	1204	1221
18.0	1029	1020	993.0	987.0	965.0	966.5	952.5	961.3	955.5	972.6
21.0	795.1	785.2	758.1	750.4	727.6	726.9	712.5	720.1	715.1	731.7
24.0	580.7	571.2	549.0	538.2	520.0	515.2	505.8	508.5	508.1	520.0
27.0	404.8	396.5	376.9	368.6	352.3	349.3	339.5	343.9	342.7	354.4
30.0	276.0	270.1	256.2	250.0	238.6	236.0	230.3	233.2	232.3	240.5
33.0	189.4	185.2	175.7	171.3	163.0	160.5	155.7	156.9	156.3	161.7
36.0	130.4	129.2	122.0	119.0	113.5	111.3	108.0	108.0	107.2	109.8
39.0	91.15	89.76	86.24	84.47	80.94	79.25	76.49	76.00	74.80	75.85
42.0	66.00	65.39	63.38	62.51	60.41	59.06	56.71	55.64	54.06	53.82
45.0	48.04	48.22	46.68	46.36	44.30	43.10	40.83	39.62	37.72	37.29
48.0	33.70	34.03	33.16	33.18	31.93	31.08	29.30	28.21	26.61	25.97
51.0	22.98	23.41	22.88	23.11	22.21	21.55	20.05	19.12	17.75	17.07
54.0	14.65	15.09	14.67	15.02	14.24	13.79	12.48	11.80	10.70	10.27
57.0	6.310	6.498	5.572	5.722	4.755	4.616	3.837	3.765	3.337	3.383
60.0	0.9929	1.009	0.9899	0.9740	0.9330	0.9325	0.9110	0.9020	0.8847	0.9019
63.0	0.6396	0.6551	0.6309	0.6310	0.5980	0.6026	0.5893	0.5983	0.5805	0.5983
66.0	0.4205	0.4237	0.4117	0.3975	0.3811	0.3800	0.3833	0.3865	0.3790	0.3778
69.0	0.2759	0.2686	0.2694	0.2489	0.2475	0.2314	0.2431	0.2336	0.2366	0.2226
72.0	0.1666	0.1506	0.1622	0.1375	0.1469	0.1287	0.1360	0.1178	0.1337	0.1135
75.0	0.1029	0.0830	0.1029	0.0764	0.0964	0.0699	0.0854	0.0655	0.0811	0.0655
78.0	0.0635	0.0415	0.0635	0.0372	0.0613	0.0372	0.0548	0.0350	0.0504	0.0350
81.0	0.0372	0.0350	0.0350	0.0393	0.0372	0.0372	0.0394	0.0350	0.0350	0.0350
84.0	0.0849	0.0963	0.0350	0.0437	0.0372	0.0372	0.0372	0.0372	0.0350	0.0372
87.0	0.1377	0.1093	0.0654	0.0437	0.0372	0.0372	0.0372	0.0372	0.0371	0.0372
90.0	0.1399	0.1159	0.0809	0.0459	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372

G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	2194	2195	2190	2191	2191	2191	2192	2192	2192	2194
3.0	2119	2128	2135	2137	2147	2147	2156	2156	2163	2162
6.0	1954	1969	1985	1986	2004	2004	2021	2018	2032	2028
9.0	1728	1747	1768	1770	1792	1792	1811	1808	1824	1818
12.0	1475	1495	1520	1522	1546	1546	1567	1562	1579	1570
15.0	1221	1242	1270	1270	1295	1294	1318	1311	1330	1318
18.0	974.2	998.0	1025	1028	1055	1057	1081	1080	1098	1090
21.0	734.6	757.5	784.5	789.6	814.0	818.1	840.3	840.8	858.4	853.3
24.0	526.9	545.0	568.6	572.6	594.1	597.0	616.6	615.2	631.1	626.2
27.0	359.2	375.4	393.7	397.8	413.1	415.3	428.6	427.6	438.9	435.9
30.0	244.2	256.1	269.2	272.0	282.9	283.8	292.3	290.7	297.7	295.1
33.0	163.9	171.7	181.2	183.6	191.3	192.1	198.1	197.5	202.4	200.9
36.0	110.9	115.9	123.7	124.3	130.6	130.5	135.6	134.1	138.8	136.4
39.0	76.22	78.99	83.27	84.70	88.08	89.03	91.89	92.03	94.11	93.94
42.0	53.35	55.23	57.66	59.06	61.24	62.21	64.36	64.82	66.60	66.82
45.0	36.51	37.57	39.63	40.29	42.46	43.51	45.76	46.28	48.22	48.45
48.0	25.13	25.64	26.89	27.42	29.04	30.09	31.67	32.18	33.56	33.67
51.0	16.31	16.66	17.43	17.67	18.90	19.69	20.98	21.53	22.67	22.76
54.0	9.705	9.950	10.50	10.65	11.45	11.89	12.84	13.17	14.14	14.25
57.0	3.260	3.498	3.871	3.883	4.514	4.453	5.242	5.099	5.990	6.133
60.0	0.9043	0.9325	0.9627	0.9434	0.9714	0.9676	0.9999	1.016	1.044	1.034
63.0	0.5893	0.6092	0.6221	0.6066	0.6330	0.6350	0.6702	0.6852	0.7161	0.7092
66.0	0.3702	0.3778	0.3863	0.3789	0.4017	0.4247	0.4520	0.4641	0.4957	0.4881
69.0	0.2235	0.2227	0.2313	0.2408	0.2422	0.2715	0.2837	0.3043	0.3252	0.3305
72.0	0.1293	0.1201	0.1222	0.1402	0.1331	0.1621	0.1614	0.1797	0.1855	0.2037
75.0	0.0832	0.0655	0.0655	0.0897	0.0720	0.0964	0.0807	0.1030	0.0917	0.1205
78.0	0.0569	0.0372	0.0328	0.0526	0.0306	0.0570	0.0349	0.0570	0.0414	0.0636
81.0	0.0415	0.0350	0.0328	0.0328	0.0327	0.0350	0.0306	0.0350	0.0306	0.0372
84.0	0.0394	0.0350	0.0306	0.0328	0.0284	0.0350	0.0284	0.0350	0.0284	0.0372
87.0	0.0394	0.0372	0.0262	0.0284	0.0241	0.0306	0.0262	0.0306	0.0241	0.0328
90.0	0.0394	0.0394	0.0262	0.0262	0.0241	0.0262	0.0262	0.0262	0.0241	0.0284

G/C	300.0	315.0	330.0	345.0
0.0	2193	2195	2194	2195
3.0	2166	2161	2162	2154
6.0	2035	2026	2028	2013
9.0	1828	1815	1819	1799
12.0	1580	1566	1568	1546
15.0	1329	1310	1315	1288
18.0	1099	1083	1083	1059
21.0	862.8	848.9	849.7	825.8

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng Yongjian
 Test Date: 2017-05-12

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	635.9	624.7	626.4	606.9
27.0	443.6	436.1	438.3	423.9
30.0	300.7	295.8	298.4	289.3
33.0	204.9	202.0	204.1	198.2
36.0	139.9	137.9	140.1	136.2
39.0	95.69	95.22	96.09	94.48
42.0	68.27	68.25	68.67	67.96
45.0	49.29	48.94	49.77	49.07
48.0	34.50	34.33	34.89	34.34
51.0	23.32	23.11	23.57	23.31
54.0	14.69	14.41	14.78	14.68
57.0	6.865	6.456	6.830	6.644
60.0	1.044	1.027	1.039	1.016
63.0	0.7073	0.6874	0.6898	0.6612
66.0	0.4826	0.4619	0.4607	0.4400
69.0	0.3165	0.3043	0.2947	0.2933
72.0	0.1854	0.1862	0.1701	0.1818
75.0	0.0960	0.1073	0.0938	0.1139
78.0	0.0458	0.0635	0.0415	0.0679
81.0	0.0306	0.0328	0.0350	0.0372
84.0	0.0284	0.0350	0.0350	0.0350
87.0	0.0241	0.0306	0.0415	0.0786
90.0	0.0241	0.0262	0.0415	0.0984

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-05-12

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: