

LED Downlight SENSE Series S125R1-18W-930-N



Light Output Ratio:	100.0%	
Luminaire Power:	19.55 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: 2017-07-14

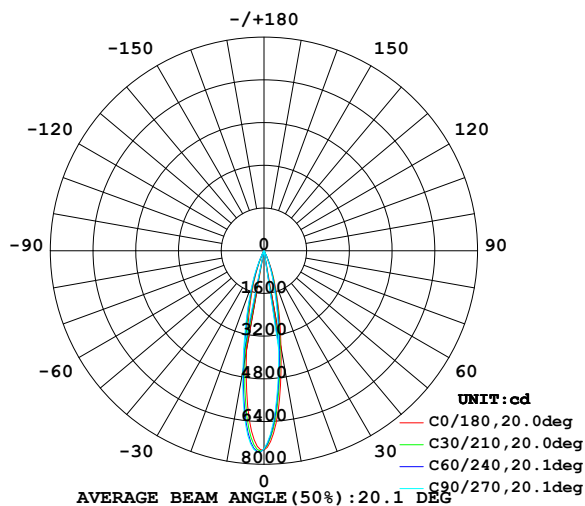
γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
Humidity: 52%  
Test Distance: 5.850m [K=1.0000]  
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

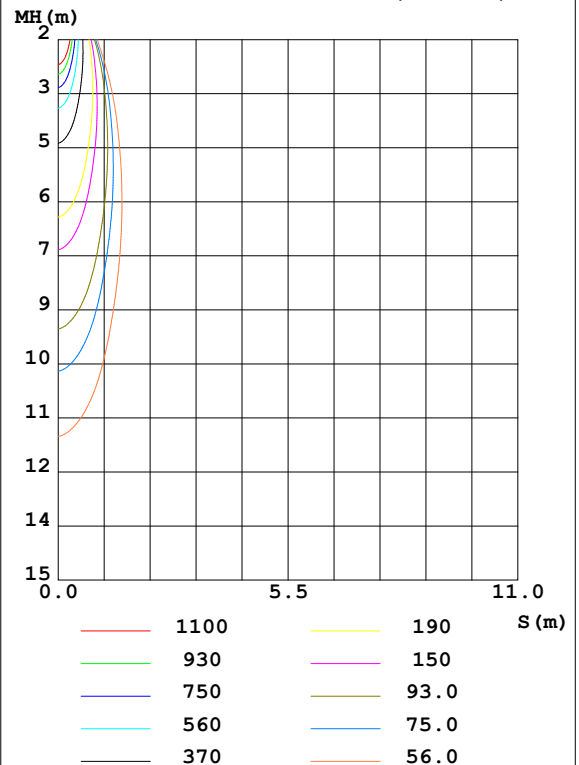
Test:U:220.7V I:0.0939A P:19.55W PF:0.9429 Lamp Flux:1277.31x1 lm		
NAME: S125R1-18W-930-N	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: $\phi$ 135mm*H157mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 65.34 lm/W			
MODEL	CITIZEN-3000K	I <sub>max</sub> (cd)	7548	S/MH (C0/180)	0.35
NOMINAL POWER (W)	21	LOR (%)	100.0	S/MH (C90/270)	0.40
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	1277.3	$\eta$ UP, DN (C0-180)	0.0, 44.5
NOMINAL FLUX (lm)	1277.31	CIE CLASS	DIRECT	$\eta$ UP, DN (C180-360)	0.0, 55.5
LAMPS INSIDE	1	$\eta$ up (%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE (V)	220	$\eta$ down (%)	100.0	CIBSE SHR MAX	1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



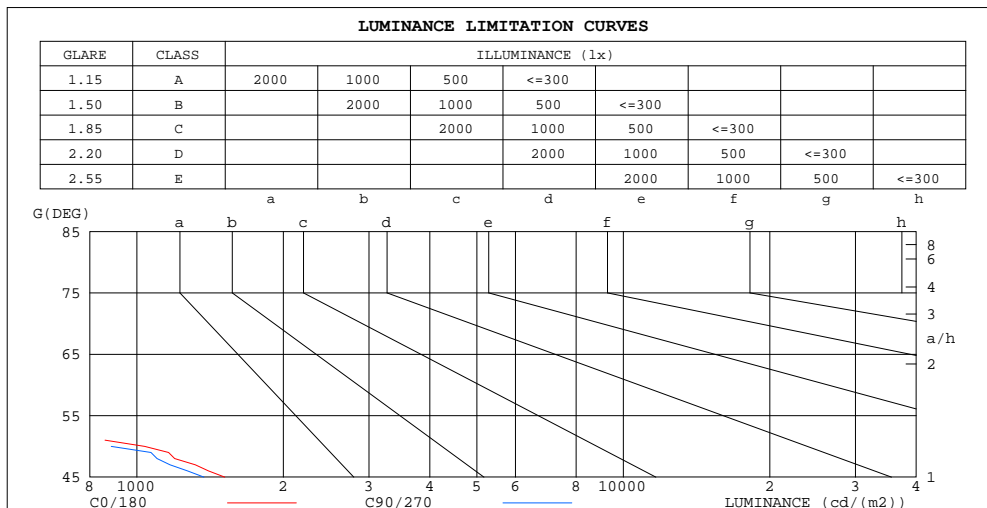
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Meng Yongjian  
Test Date:2017-07-14

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
Humidity:52%  
Test Distance:5.850m [K=1.0000]  
Remarks:

**ZONAL FLUX DIAGRAM  
AND LUMINANCE LIMITATION CURVES**

**ZONAL FLUX DIAGRAM:**

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum, lamp
10	3692	3406	3156	3304	3779	4221	4582	4203	0- 10	511.1	511.1	40,40
20	974.0	846.0	714.1	739.6	885.5	1031	1197	1128	10- 20	560.2	1071	83.9,83.9
30	74.97	69.84	65.73	61.42	69.68	78.70	94.94	87.12	20- 30	158.0	1229	96.2,96.2
40	25.34	23.65	23.04	23.05	27.00	27.28	31.03	27.55	30- 40	27.93	1257	98.4,98.4
50	9.541	8.983	8.144	7.790	8.575	8.971	9.669	9.730	40- 50	12.47	1270	99.4,99.4
60	1.803	2.178	1.671	1.857	1.703	1.790	1.678	2.003	50- 60	4.347	1274	99.7,99.7
70	0.9336	1.187	0.8531	1.187	0.9292	1.176	0.8197	1.143	60- 70	1.179	1275	99.8,99.8
80	0.8877	1.093	0.7705	1.135	0.8921	1.246	0.8003	1.133	70- 80	1.056	1276	99.9,99.9
90	0.8943	1.004	0.7915	1.078	0.8768	1.041	0.7915	1.047	80- 90	1.053	1277	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	703	624
80	357	310
75	237	203
70	191	174
65	164	165
60	252	234
55	468	410
50	1038	886
45	1516	1373

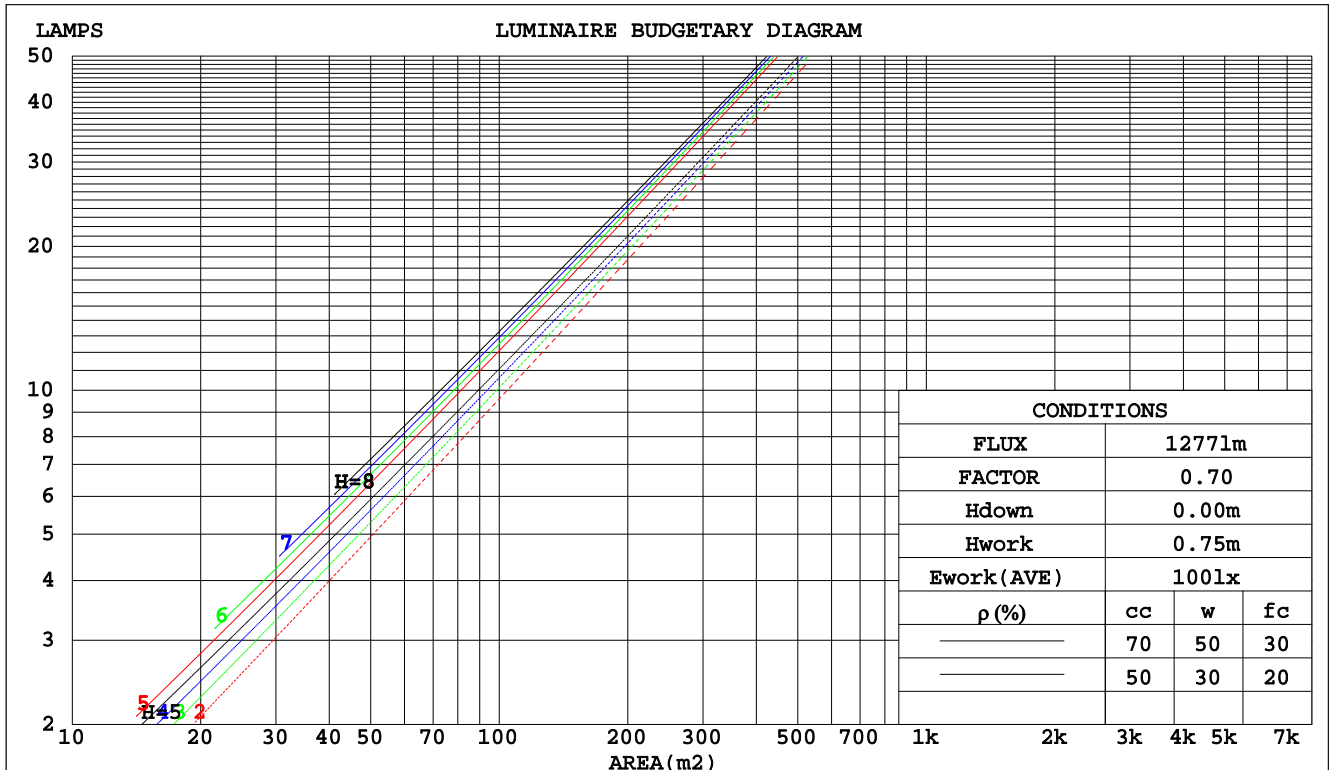
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Meng Yongjian  
Test Date:2017-07-14

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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:0.0939A P:19.55W PF:0.9429 Lamp Flux:1277.31x1 lm		
NAME: S125R1-18W-930-N	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: $\phi$ 135mm*H157mm	
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															



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Temperature:25.3DEG  
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WEC AND CCEC

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SPEC.:3000K	DIM.: $\phi$ 135mm*H157mm	
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	.133	.076	.024	.127	.072	.023	.114	.066	.021	.103	.059	.019	.092	.054	.017		
2.0	.123	.067	.021	.117	.065	.020	.107	.060	.018	.098	.055	.017	.089	.050	.016		
3.0	.114	.061	.018	.109	.059	.018	.101	.055	.017	.093	.051	.016	.086	.047	.015		
4.0	.106	.055	.016	.103	.054	.016	.095	.051	.015	.089	.048	.014	.083	.045	.014		
5.0	.100	.051	.015	.097	.050	.014	.091	.047	.014	.085	.045	.013	.080	.043	.013		
6.0	.094	.047	.014	.092	.046	.013	.086	.044	.013	.081	.042	.012	.077	.041	.012		
7.0	.089	.044	.013	.087	.043	.012	.082	.042	.012	.078	.040	.012	.074	.039	.011		
8.0	.085	.042	.012	.083	.041	.012	.079	.039	.011	.075	.038	.011	.072	.037	.011		
9.0	.081	.039	.011	.079	.039	.011	.076	.038	.011	.073	.036	.010	.070	.035	.010		
10.0	.078	.037	.010	.076	.037	.010	.073	.036	.010	.070	.035	.010	.067	.034	.010		

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						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	.128	.114	.102	.088	.079	.071	.051	.046	.042	.016	.015	.014	
3.0	.134	.113	.096	.115	.098	.084	.079	.068	.059	.046	.040	.035	.015	.013	.011	
4.0	.122	.098	.080	.104	.085	.069	.072	.059	.049	.042	.034	.029	.013	.011	.009	
5.0	.111	.085	.067	.095	.074	.058	.066	.052	.041	.038	.030	.024	.012	.010	.008	
6.0	.102	.075	.056	.088	.065	.049	.060	.046	.035	.035	.027	.021	.011	.009	.007	
7.0	.094	.067	.048	.081	.058	.042	.056	.041	.030	.032	.024	.018	.010	.008	.006	
8.0	.087	.060	.042	.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	.077	.050	.032	.066	.043	.028	.046	.030	.020	.027	.018	.012	.009	.006	.004	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
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 Operators:Meng Yongjian  
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$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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:220.7V I:0.0939A P:19.55W PF:0.9429 Lamp Flux:1277.31x1 lm										
NAME: S125R1-18W-930-N					TYPE:Downlight			SERIAL No.:		
SPEC.:3000K					DIM.: $\phi$ 135mm*H157mm					
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	1.6	2.2	1.8	2.3	2.5	1.2	1.8	1.4	2.0	2.1
3H	1.5	2.1	1.7	2.3	2.4	1.2	1.8	1.4	1.9	2.1
4H	1.5	2.0	1.7	2.2	2.5	1.2	1.7	1.4	1.9	2.1
6H	1.6	2.1	1.9	2.3	2.6	1.2	1.8	1.5	2.0	2.2
8H	1.7	2.2	2.0	2.4	2.7	1.3	1.8	1.6	2.1	2.3
12H	1.9	2.3	2.2	2.6	2.9	1.5	2.0	1.8	2.2	2.5
4H 2H	1.4	2.0	1.7	2.2	2.4	1.1	1.7	1.4	1.9	2.1
3H	1.4	1.9	1.7	2.2	2.4	1.1	1.6	1.5	1.9	2.2
4H	1.4	1.9	1.8	2.2	2.5	1.2	1.7	1.6	2.0	2.3
6H	1.6	2.0	2.0	2.3	2.7	1.4	1.8	1.8	2.1	2.5
8H	1.8	2.2	2.2	2.5	2.9	1.6	1.9	2.0	2.3	2.7
12H	2.1	2.5	2.5	2.8	3.2	1.9	2.2	2.3	2.6	3.0
8H 4H	1.4	1.8	1.8	2.2	2.5	1.3	1.6	1.6	2.0	2.3
6H	1.7	2.1	2.2	2.4	2.9	1.7	2.0	2.1	2.4	2.8
8H	2.1	2.3	2.5	2.7	3.2	2.0	2.3	2.5	2.7	3.1
12H	2.6	2.8	3.0	3.2	3.7	2.5	2.7	3.0	3.2	3.6
12H 4H	1.4	1.8	1.9	2.2	2.5	1.2	1.6	1.6	2.0	2.3
6H	1.8	2.1	2.3	2.5	3.0	1.7	2.0	2.2	2.4	2.9
8H	2.2	2.5	2.7	2.9	3.4	2.2	2.4	2.7	2.9	3.3
Variations with the observer position at spacings:										
S = 1.0H	+ 1.6 / - 2.5					+ 1.2 / - 2.2				
1.5H	+ 3.0 / - 3.2					+ 2.4 / - 2.6				
2.0H	+ 3.1 / - 2.5					+ 2.6 / - 2.2				

CIE Pub.117 Corrected 1277 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.9)

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 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
Humidity:52%  
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Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.7V I:0.0939A P:19.55W PF:0.9429 Lamp Flux:1277.31x1 lm		
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SPEC.:3000K	DIM.: $\phi 135\text{mm} \times H157\text{mm}$	
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) $k(RI) \times RCR = 5$									
$k = 0.60$	91	85	81	90	85	81	89	84	81	78
0.80	98	92	89	97	92	89	96	91	88	85
1.00	101	96	93	101	96	93	99	96	92	89
1.25	105	100	97	104	100	97	102	99	96	92
1.50	107	103	100	106	102	100	104	101	99	94
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	106	104	107	104	102	96
3.00	113	109	107	111	108	106	107	105	104	97
4.00	114	112	110	112	110	109	109	107	106	99
5.00	116	114	112	113	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

Test:U:220.7V I:0.0939A P:19.55W PF:0.9429 Lamp Flux:1277.31x1 lm		
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MFR.: NEKO LIGHTING AG		

Conical surface Flux(90deg):

1264.7 lm

%lum = 99.0%

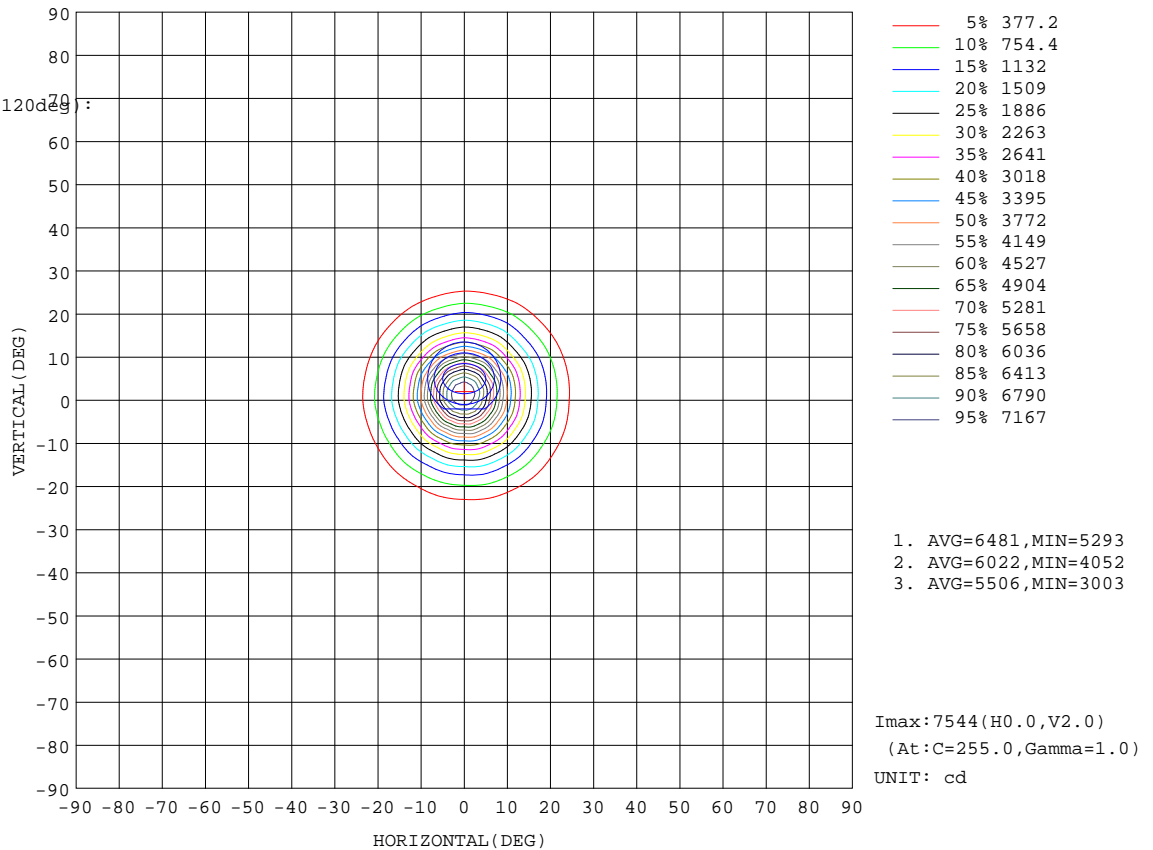
%lamp = 99.0%

Conical surface Flux(120deg):

1274 lm

%lum = 99.7%

%lamp = 99.7%



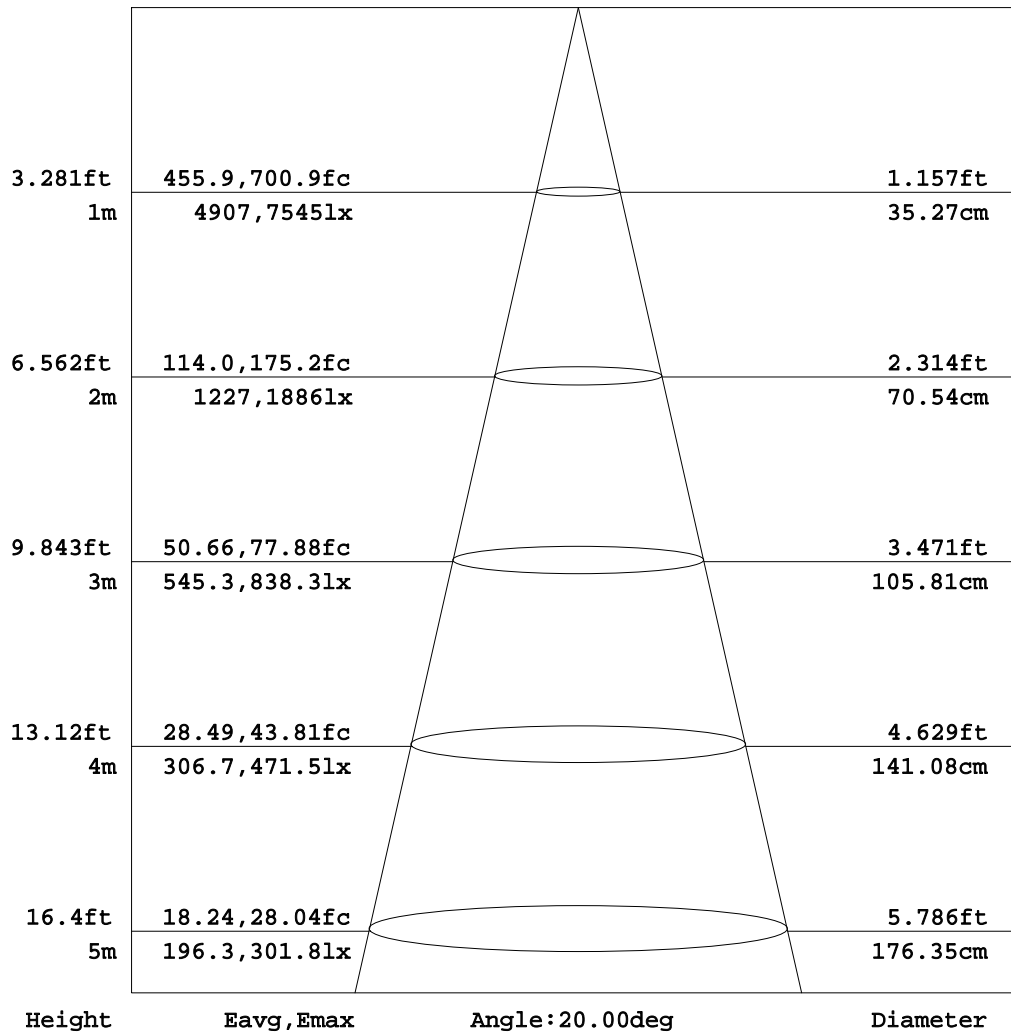
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**AAI Figure**

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Flux out:582.5 lm



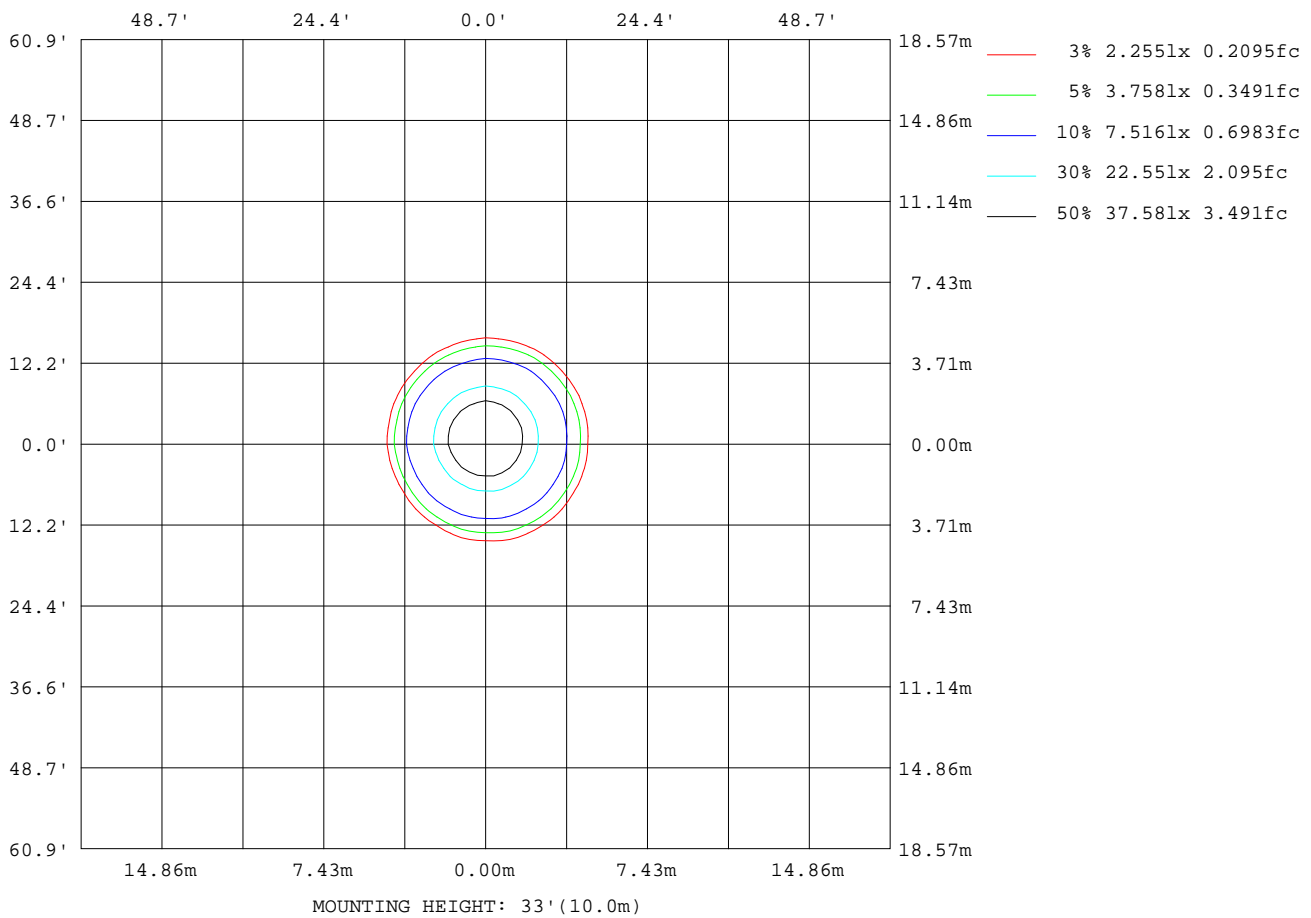
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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**ISOLUX DIAGRAM**

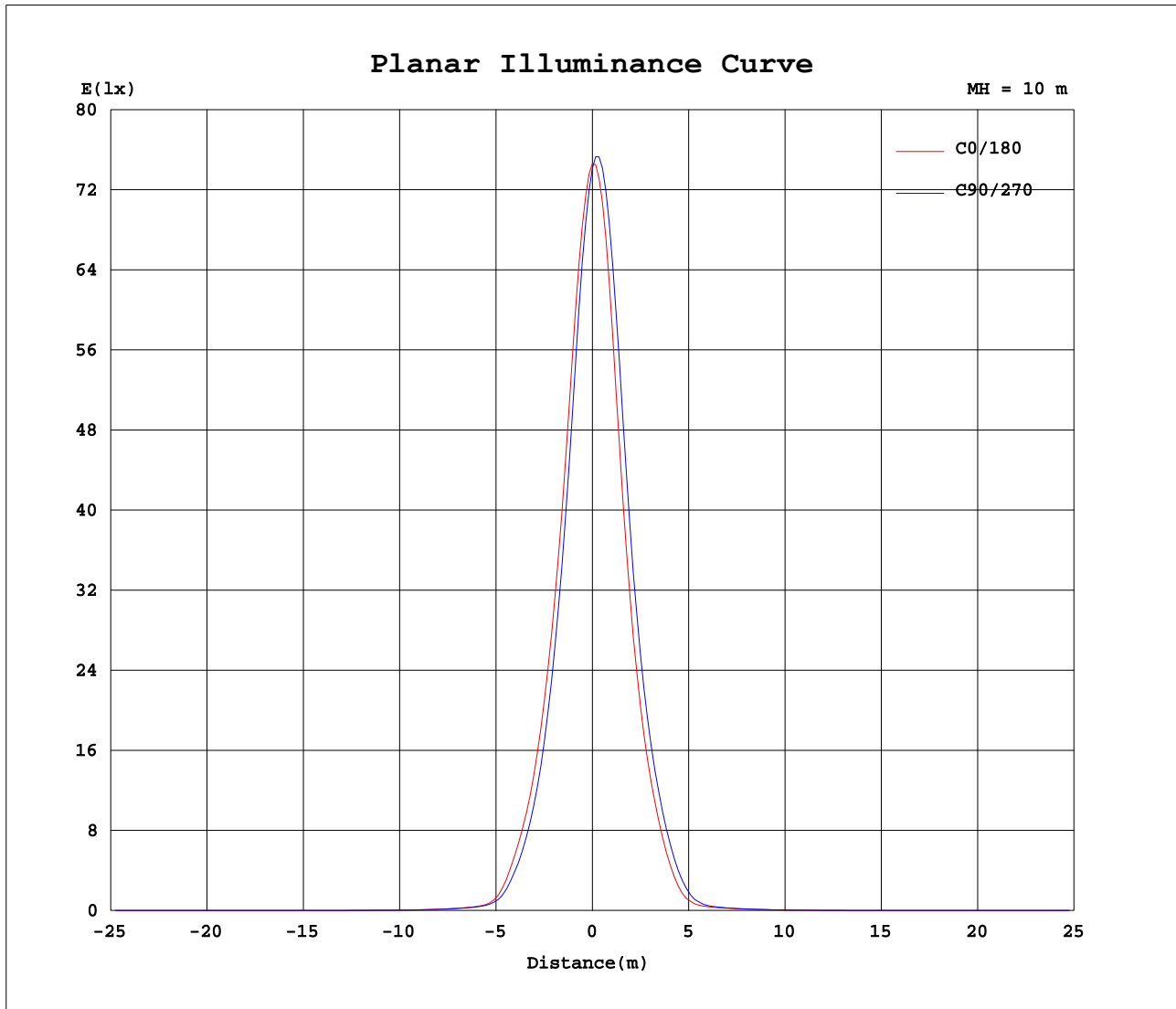
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SPEC.:3000K	DIM.: $\phi$ 135mm*H157mm	
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### Planar Illuminance Curve



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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	7461	7461	7445	7456	7434	7452	7416	7435	7418	7446
3.0	6857	6804	6684	6662	6567	6582	6492	6562	6561	6715
6.0	5576	5489	5297	5253	5118	5126	4992	5066	5055	5264
9.0	4116	4035	3866	3822	3693	3694	3561	3612	3585	3745
12.0	2936	2868	2727	2685	2570	2551	2440	2467	2441	2548
15.0	2011	1961	1851	1808	1711	1687	1595	1609	1588	1668
18.0	1317	1293	1205	1170	1101	1077	1011	1016	1001	1057
21.0	823.3	792.0	731.9	705.7	655.3	636.0	588.0	590.0	573.4	594.3
24.0	413.3	400.1	368.7	359.9	330.4	321.3	285.5	278.3	250.5	253.9
27.0	155.7	162.2	140.6	149.6	131.5	138.8	121.6	122.6	106.9	104.0
30.0	74.97	73.15	70.94	69.84	68.64	69.34	65.73	66.03	63.13	61.42
33.0	52.71	51.64	50.24	48.70	47.55	48.43	47.41	48.59	47.61	45.09
36.0	38.69	38.09	37.21	35.76	35.31	35.92	34.48	35.79	36.52	34.44
39.0	28.27	27.74	27.11	26.27	25.78	26.24	25.51	26.01	26.34	25.64
42.0	20.63	19.89	19.53	19.02	18.72	19.42	18.96	19.10	18.87	18.60
45.0	15.33	14.65	14.41	14.10	14.00	14.40	13.89	14.10	13.79	13.63
48.0	11.45	11.07	10.76	10.63	10.49	10.62	10.53	10.68	11.07	11.05
51.0	7.743	7.606	7.310	7.245	6.947	7.004	6.574	6.598	6.373	6.604
54.0	4.616	4.498	4.374	4.429	4.213	4.099	3.870	3.883	3.802	4.142
57.0	6.104	3.839	3.536	3.235	3.338	3.367	6.267	6.651	5.967	6.324
60.0	1.803	1.777	1.859	2.178	2.034	1.812	1.671	1.645	1.610	1.857
63.0	1.194	1.155	1.220	1.429	1.442	1.214	1.141	1.121	1.108	1.425
66.0	0.9710	0.9094	1.054	1.272	1.347	1.023	0.9754	0.9509	0.9600	1.292
69.0	0.9337	0.8679	0.9776	1.224	1.421	0.9789	0.8925	0.8876	0.9446	1.218
72.0	0.9098	0.8305	0.9034	1.152	1.360	0.8370	0.7767	0.8152	0.8858	1.108
75.0	0.8789	0.7981	0.8789	1.122	1.366	0.7959	0.7521	0.7806	0.8680	1.069
78.0	0.8811	0.8025	0.8986	1.111	1.327	0.8003	0.7653	0.7871	0.8855	1.128
81.0	0.8855	0.8178	0.9117	1.080	1.233	0.8134	0.7714	0.8047	0.8877	1.137
84.0	0.8768	0.8309	0.9139	1.036	1.153	0.8243	0.7741	0.8116	0.8834	1.124
87.0	0.8811	0.8440	0.9248	1.010	1.091	0.8265	0.7805	0.8156	0.8833	1.104
90.0	0.8943	0.8593	0.9380	1.004	1.050	0.8309	0.7915	0.8287	0.8921	1.078
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	7437	7439	7461	7445	7456	7434	7452	7416	7435	7446
3.0	6767	6909	7098	7163	7276	7330	7403	7414	7445	7389
6.0	5332	5558	5859	5979	6201	6297	6461	6473	6571	6465
9.0	3787	3989	4262	4384	4626	4740	4945	4962	5108	4990
12.0	2579	2719	2927	3026	3219	3302	3457	3482	3612	3538
15.0	1691	1799	1953	2025	2165	2222	2342	2361	2466	2420
18.0	1074	1141	1265	1298	1408	1443	1539	1556	1631	1605
21.0	593.5	637.1	719.0	743.1	811.2	846.9	918.0	940.1	1007	999.2
24.0	248.8	272.9	324.0	338.7	382.4	406.9	458.5	490.2	530.3	537.1
27.0	101.3	108.2	132.2	128.1	157.9	157.3	183.2	195.8	221.0	218.1
30.0	61.53	64.26	69.68	72.00	76.38	78.70	84.26	88.20	94.94	93.11
33.0	44.54	48.52	51.89	53.02	55.05	54.29	56.24	59.43	60.42	60.30
36.0	33.74	37.52	40.17	40.81	42.01	40.74	41.83	44.33	45.35	44.45
39.0	25.42	28.36	29.98	30.71	31.71	30.29	31.10	34.13	34.08	33.45
42.0	18.56	20.48	21.52	21.94	23.23	22.09	22.48	24.94	25.04	24.70
45.0	13.77	14.96	15.49	15.81	16.76	15.86	16.16	17.55	17.56	17.21
48.0	11.21	11.79	11.85	11.91	12.34	11.54	11.70	12.34	12.46	12.28
51.0	6.552	6.940	7.314	7.416	8.053	7.665	7.893	8.326	8.438	8.344
54.0	3.961	4.023	4.209	4.279	4.557	4.628	4.754	4.613	4.778	4.742
57.0	5.804	5.740	4.816	3.370	3.255	3.001	3.154	3.056	3.254	3.337
60.0	1.859	1.747	1.703	1.740	1.792	1.790	1.786	1.701	1.678	1.734
63.0	1.425	1.158	1.105	1.154	1.238	1.258	1.186	1.108	1.046	1.121
66.0	1.325	0.9884	0.9096	0.9512	1.128	1.141	1.001	0.9293	0.8548	0.9337
69.0	1.349	1.058	0.9228	0.9292	1.220	1.170	0.9663	0.8987	0.8329	0.9053
72.0	1.443	1.118	0.9151	0.8945	1.312	1.168	0.9291	0.8507	0.7826	0.8443
75.0	1.478	0.9993	0.8418	0.8876	1.380	1.216	0.9161	0.8548	0.7740	0.8592
78.0	1.539	1.026	0.8638	0.9008	1.373	1.244	0.9095	0.8397	0.7828	0.8811
81.0	1.500	1.036	0.8987	0.9117	1.290	1.244	0.9030	0.8483	0.8068	0.8899
84.0	1.389	1.032	0.9008	0.9161	1.182	1.168	0.8920	0.8592	0.8068	0.8899
87.0	1.258	1.034	0.8943	0.9161	1.100	1.091	0.8768	0.8527	0.8068	0.8768
90.0	1.183	1.015	0.8768	0.9161	1.047	1.041	0.8768	0.8440	0.7915	0.8593
G/C	300.0	315.0	330.0	345.0						
0.0	7418	7446	7437	7439						
3.0	7343	7216	7136	6992						
6.0	6401	6163	6044	5806						
9.0	4941	4684	4570	4334						
12.0	3524	3336	3264	3093						
15.0	2426	2294	2252	2127						
18.0	1612	1520	1492	1404						
21.0	1026	966.5	945.8	887.3						

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Meng Yongjian  
Test Date: 2017-07-14

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	553.5	527.2	510.0	473.0
27.0	227.5	206.5	200.7	178.4
30.0	93.83	87.12	85.77	80.91
33.0	59.54	57.13	56.52	55.22
36.0	44.30	41.46	41.59	40.64
39.0	32.84	30.62	30.63	29.99
42.0	24.05	22.51	22.82	22.22
45.0	17.49	17.19	17.28	16.59
48.0	12.60	12.65	12.75	12.14
51.0	8.611	8.443	8.481	8.113
54.0	5.143	5.232	5.228	4.982
57.0	4.164	4.276	4.168	3.508
60.0	1.963	2.003	1.899	1.837
63.0	1.341	1.348	1.245	1.211
66.0	1.163	1.113	0.9970	0.9579
69.0	1.247	1.137	0.9883	0.9162
72.0	1.312	1.137	0.9639	0.8857
75.0	1.340	1.154	0.9446	0.8506
78.0	1.298	1.161	0.9512	0.8353
81.0	1.224	1.120	0.9578	0.8353
84.0	1.139	1.089	0.9620	0.8417
87.0	1.069	1.058	0.9489	0.8461
90.0	1.034	1.047	0.9314	0.8440

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Meng Yongjian  
Test Date: 2017-07-14

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: