

LED Downlight SENSE Series S125R2-18W-930-W



Light Output Ratio:	100.0%	
Luminaire Power:	19.5 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.80	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

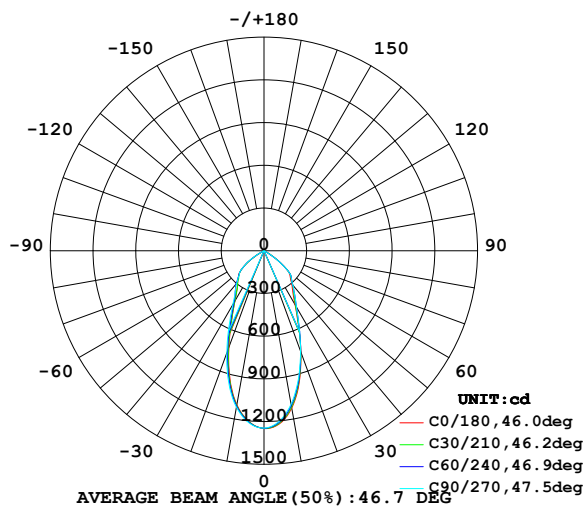
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

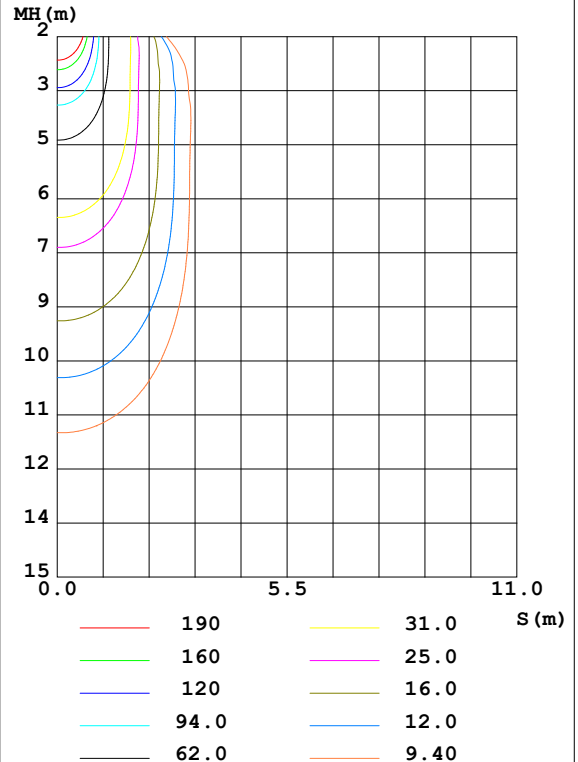
Test:U:220.6V I:0.0938A P:19.50W PF:0.9425 Lamp Flux:1178.55x1 lm		
NAME: S125R2-18W-930-W	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: ϕ 135mm*H157mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 60.43 lm/W
MODEL	CITIZEN-3000K	I _{max} (cd)	1249	S/MH (C0/180)	0.71	
NOMINAL POWER (W)	21	LOR (%)	100.0	S/MH (C90/270)	0.74	
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	1178.6	η UP, DN (C0-180)	0.0, 50.1	
NOMINAL FLUX (lm)	1178.55	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 49.9	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75	
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	0.80	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



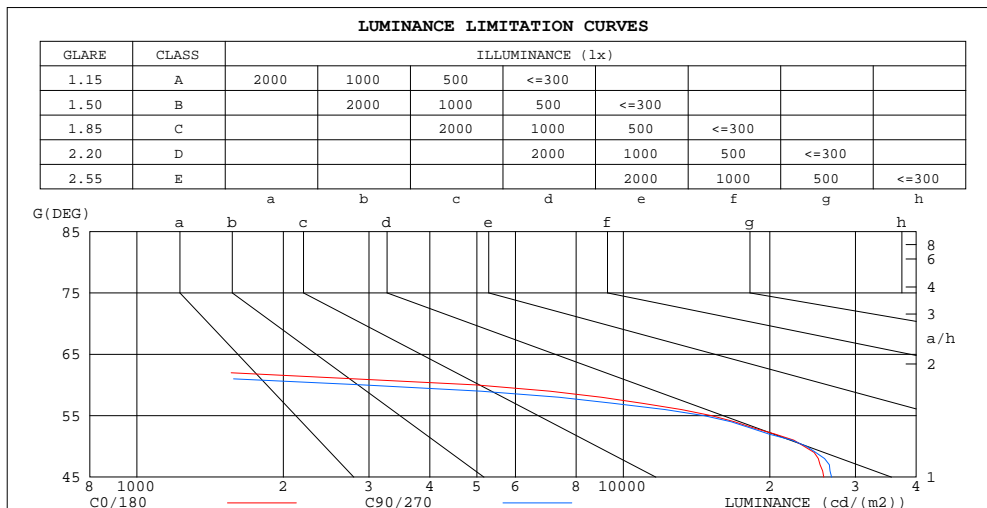
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Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
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Remarks:

**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	1123	1113	1095	1090	1099	1102	1116	1123	0- 10	112.2	112.2	9.52,9.52
20	758.7	760.1	751.0	730.5	722.4	732.6	765.2	769.0	10- 20	260.4	372.6	31.6,31.6
30	436.1	455.6	456.2	433.1	410.1	412.6	439.0	444.4	20- 30	262.2	634.8	53.9,53.9
40	303.3	323.2	314.8	303.0	287.5	293.2	299.6	308.8	30- 40	225.2	859.9	73,73
50	216.4	225.0	219.0	214.4	211.5	208.6	211.2	215.0	40- 50	200.7	1061	90,90
60	35.68	28.60	20.91	25.30	37.22	38.98	41.75	38.54	50- 60	111.3	1172	99.4,99.4
70	0.9646	0.9494	0.8353	0.8686	0.9794	1.025	1.119	1.100	60- 70	6.179	1178	100,100
80	0.0854	0.0634	0.0722	0.0590	0.0415	0.0634	0.0612	0.0962	70- 80	0.3790	1178	100,100
90	0.0547	0.2427	0.0678	0.0525	0.0328	0.0372	0.1531	0.0437	80- 90	0.0705	1179	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		



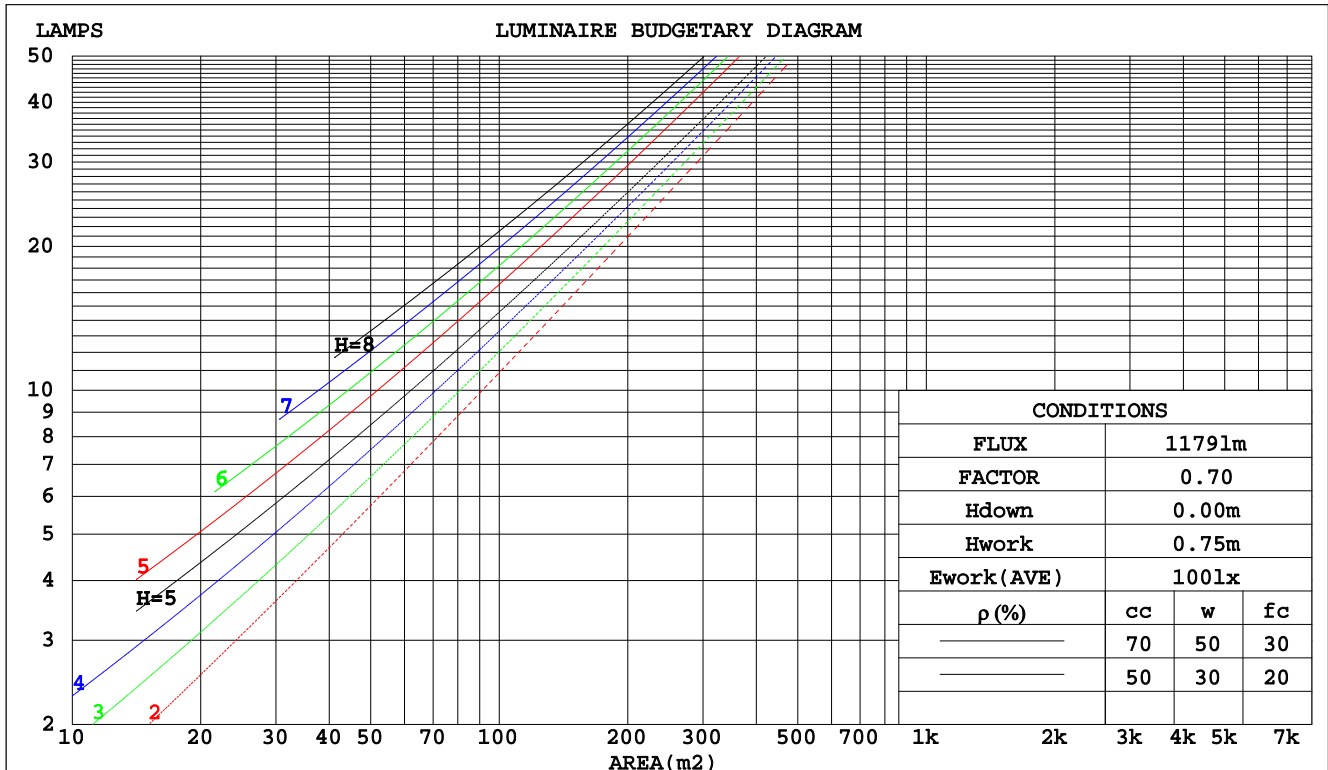
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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
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Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.6V I:0.0938A P:19.50W PF:0.9425 Lamp Flux:1178.55x1 lm		
NAME: S125R2-18W-930-W	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: ϕ 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						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	1.10	1.07	1.04	1.07	1.05	1.03	1.03	1.01	.99	.00	.98	.96	.96	.95	.94	.92
2.0	1.00	.96	.92	.99	.94	.91	.95	.92	.89	.92	.89	.87	.90	.87	.85	.83
3.0	.92	.86	.82	.91	.85	.81	.88	.83	.80	.85	.82	.79	.83	.80	.77	.76
4.0	.85	.78	.73	.84	.78	.73	.81	.76	.72	.79	.75	.71	.77	.73	.70	.69
5.0	.78	.71	.66	.77	.71	.66	.75	.70	.66	.74	.69	.65	.72	.68	.64	.63
6.0	.72	.66	.61	.72	.65	.60	.70	.64	.60	.68	.63	.59	.67	.63	.59	.57
7.0	.67	.60	.56	.67	.60	.55	.65	.59	.55	.64	.59	.55	.63	.58	.54	.53
8.0	.63	.56	.51	.62	.56	.51	.61	.55	.51	.60	.55	.51	.59	.54	.50	.49
9.0	.59	.52	.48	.58	.52	.47	.57	.51	.47	.56	.51	.47	.55	.50	.47	.45
10.0	.55	.49	.44	.55	.48	.44	.54	.48	.44	.53	.48	.44	.52	.47	.44	.42



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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	.200	.114	.036	.194	.110	.035	.181	.104	.033	.169	.098	.031	.158	.092	.030		
2.0	.196	.107	.033	.190	.105	.032	.179	.100	.031	.169	.095	.030	.160	.091	.029		
3.0	.188	.100	.030	.183	.098	.030	.174	.094	.029	.165	.091	.028	.157	.087	.027		
4.0	.180	.093	.027	.175	.092	.027	.167	.089	.026	.160	.086	.026	.152	.083	.025		
5.0	.171	.087	.025	.167	.086	.025	.160	.083	.025	.153	.081	.024	.147	.079	.024		
6.0	.162	.081	.023	.159	.080	.023	.153	.078	.023	.147	.076	.022	.141	.074	.022		
7.0	.154	.076	.022	.151	.075	.022	.146	.074	.021	.140	.072	.021	.135	.070	.021		
8.0	.147	.072	.020	.144	.071	.020	.139	.070	.020	.134	.068	.020	.130	.067	.019		
9.0	.140	.068	.019	.137	.067	.019	.133	.066	.019	.129	.064	.018	.125	.063	.018		
10.0	.133	.064	.018	.131	.063	.018	.127	.062	.018	.123	.061	.017	.119	.060	.017		

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	.173	.157	.143	.148	.135	.123	.101	.093	.085	.058	.054	.050	.019	.017	.016	
2.0	.159	.132	.110	.137	.114	.095	.094	.079	.066	.054	.046	.039	.017	.015	.013	
3.0	.149	.114	.086	.128	.098	.074	.088	.068	.052	.051	.040	.031	.016	.013	.010	
4.0	.140	.099	.069	.120	.086	.060	.082	.060	.042	.048	.035	.025	.015	.011	.008	
5.0	.132	.088	.056	.113	.076	.049	.078	.053	.034	.045	.031	.020	.015	.010	.007	
6.0	.125	.079	.047	.107	.069	.040	.074	.048	.029	.043	.028	.017	.014	.009	.006	
7.0	.119	.072	.039	.102	.062	.034	.071	.044	.024	.041	.026	.014	.013	.008	.005	
8.0	.113	.066	.034	.097	.057	.029	.067	.040	.021	.039	.024	.012	.013	.008	.004	
9.0	.108	.061	.029	.093	.053	.025	.064	.037	.018	.037	.022	.011	.012	.007	.004	
10.0	.103	.057	.026	.089	.049	.022	.062	.035	.016	.036	.020	.010	.012	.007	.003	

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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:

UGR(Unified Glare Rating) Table

Test:U:220.6V I:0.0938A P:19.50W PF:0.9425 Lamp Flux:1178.55x1 lm										
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SPEC.:3000K					DIM.: ϕ 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	20.9	22.1	21.2	22.2	22.4	21.0	22.1	21.2	22.2	22.4
3H	20.8	21.8	21.0	22.0	22.2	20.8	21.8	21.0	22.0	22.2
4H	20.7	21.6	21.0	21.9	22.1	20.7	21.6	21.0	21.9	22.1
6H	20.6	21.5	20.9	21.7	22.0	20.6	21.5	20.9	21.7	22.0
8H	20.5	21.4	20.8	21.7	21.9	20.5	21.4	20.8	21.7	21.9
12H	20.5	21.3	20.8	21.6	21.9	20.5	21.3	20.8	21.6	21.9
4H 2H	20.8	21.7	21.1	22.0	22.2	20.8	21.8	21.1	22.0	22.2
3H	20.6	21.4	20.9	21.7	22.0	20.6	21.4	20.9	21.7	22.0
4H	20.5	21.2	20.9	21.5	21.9	20.5	21.3	20.9	21.6	21.9
6H	20.4	21.1	20.8	21.4	21.7	20.4	21.1	20.8	21.4	21.8
8H	20.4	21.0	20.8	21.3	21.7	20.4	21.0	20.8	21.3	21.7
12H	20.3	20.9	20.7	21.2	21.6	20.3	20.9	20.7	21.2	21.6
8H 4H	20.4	21.0	20.8	21.3	21.7	20.4	21.0	20.8	21.3	21.7
6H	20.3	20.8	20.7	21.2	21.6	20.3	20.8	20.7	21.2	21.6
8H	20.2	20.6	20.7	21.1	21.5	20.2	20.7	20.7	21.1	21.5
12H	20.2	20.5	20.6	21.0	21.4	20.2	20.5	20.6	21.0	21.5
12H 4H	20.3	20.9	20.7	21.2	21.6	20.3	20.9	20.7	21.2	21.6
6H	20.2	20.6	20.7	21.1	21.5	20.2	20.7	20.7	21.1	21.5
8H	20.2	20.5	20.6	21.0	21.4	20.2	20.5	20.6	21.0	21.5
Variations with the observer position at spacings:										
S = 1.0H	+ 1.7 / - 3.1					+ 1.9 / - 3.9				
1.5H	+ 0.9 / - 1.6					+ 0.8 / - 1.7				
2.0H	+ 3.4 / -21.7					+ 3.7 / -21.7				

CIE Pub.117 Corrected 1179 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.6)

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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

Test:U:220.6V I:0.0938A P:19.50W PF:0.9425 Lamp Flux:1178.55x1 lm		
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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) $k(RI) \times RCR = 5$									
$k = 0.60$	74	65	60	73	65	60	72	64	59	55
0.80	83	75	70	83	75	70	81	74	69	64
1.00	91	83	78	90	83	78	88	83	78	73
1.25	97	90	85	96	89	85	93	88	84	79
1.50	100	94	90	99	93	89	97	92	88	83
2.00	105	100	96	103	99	95	100	96	93	87
2.50	107	102	98	105	101	98	102	99	96	89
3.00	109	105	101	107	103	100	104	101	98	91
4.00	112	108	105	109	106	104	106	103	101	93
5.00	113	110	107	111	108	106	107	104	103	94
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):

963.43 lm

%lum = 81.7%

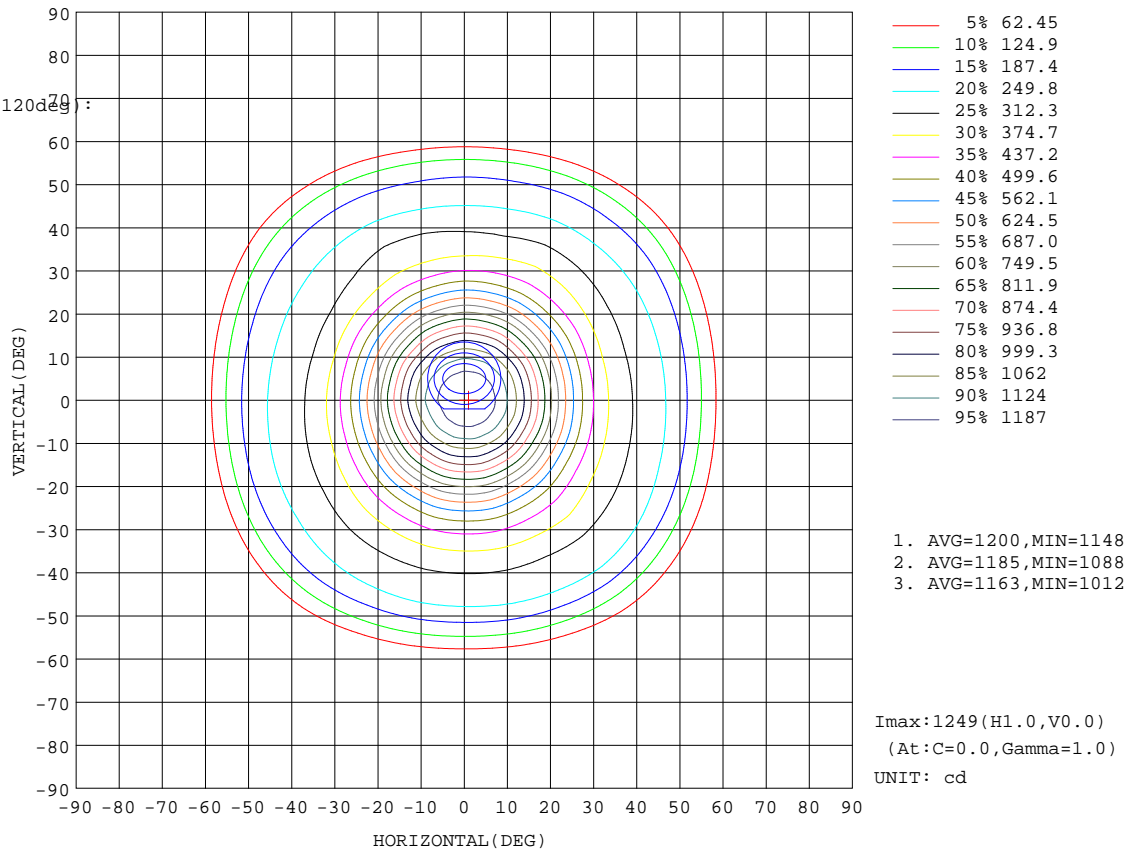
%lamp = 81.7%

Conical surface Flux(120deg):

1171.9 lm

%lum = 99.4%

%lamp = 99.4%



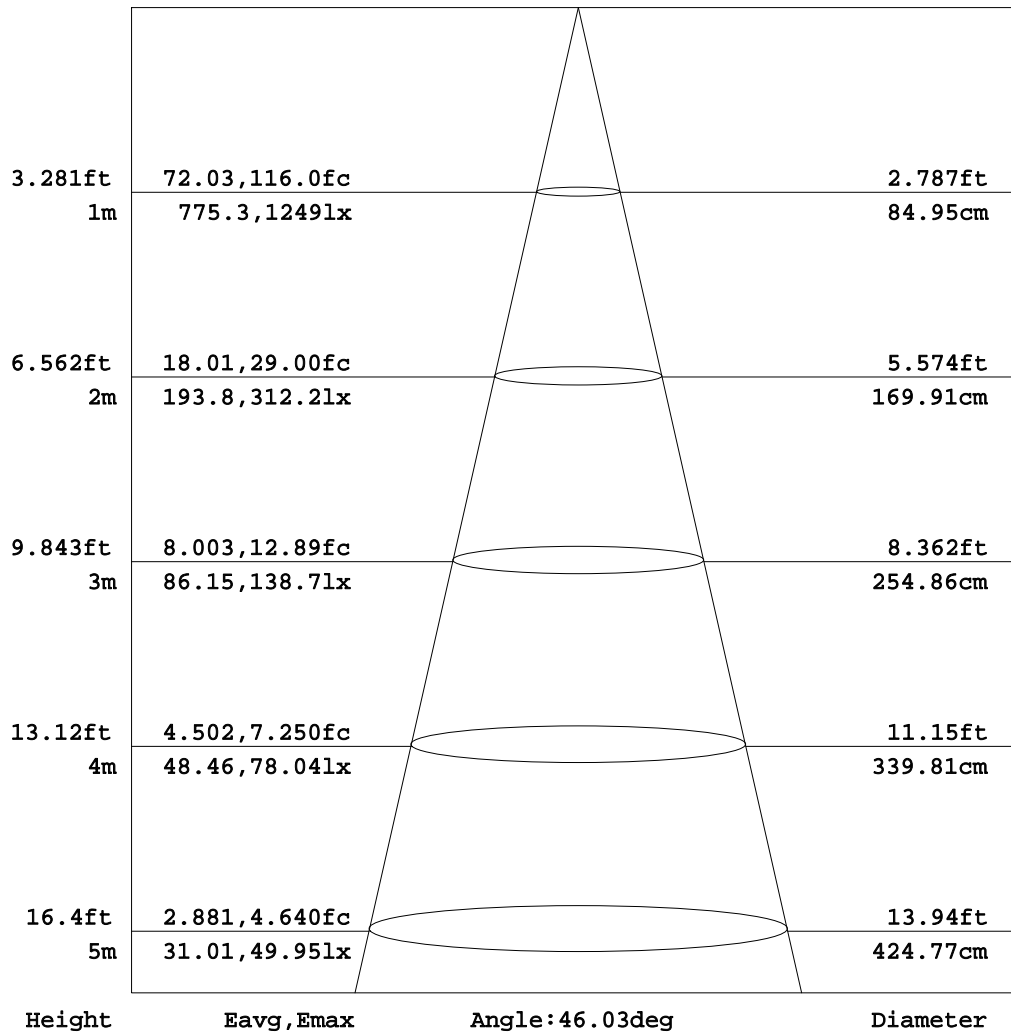
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AAI Figure

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Flux out:482.8 lm



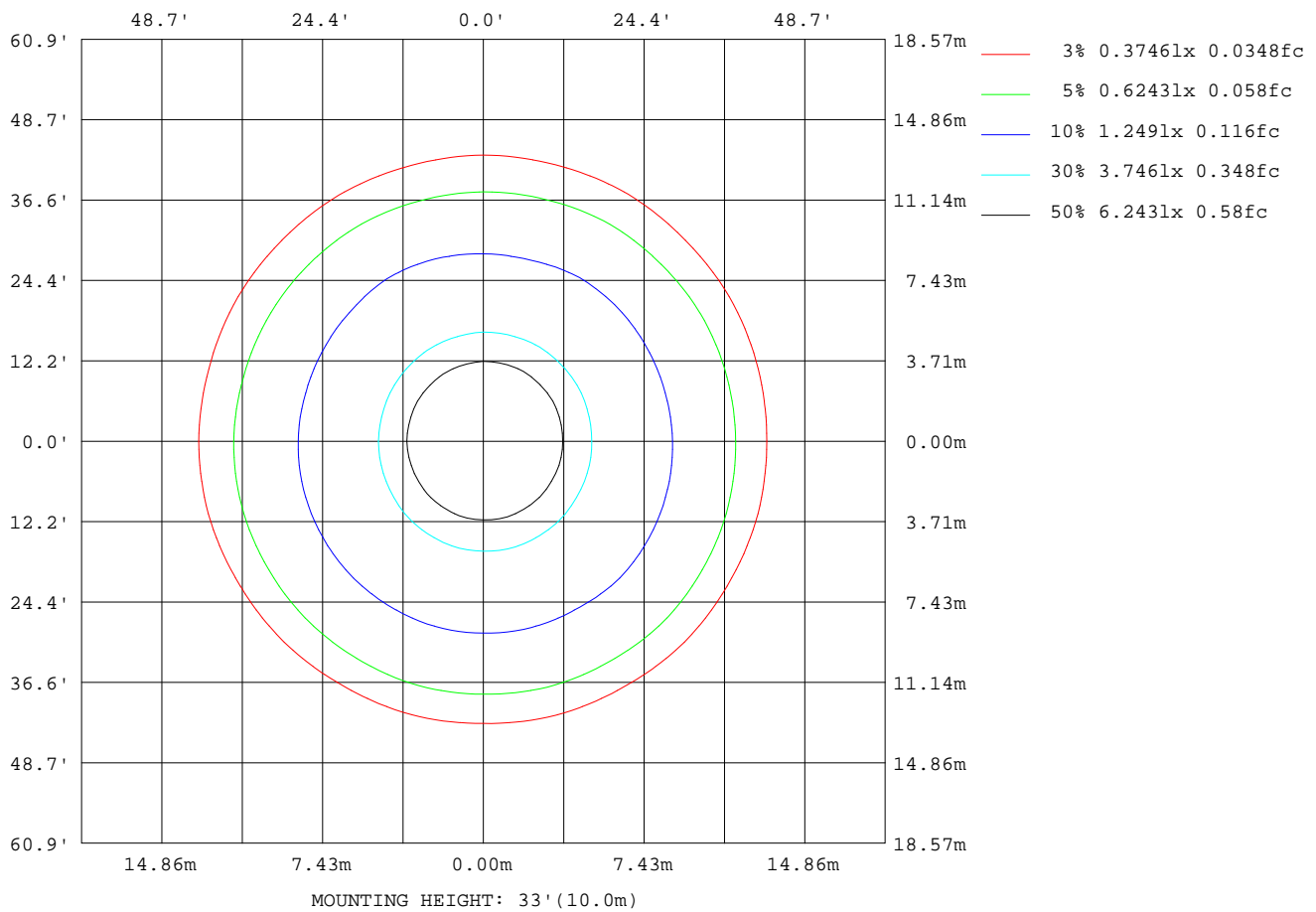
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

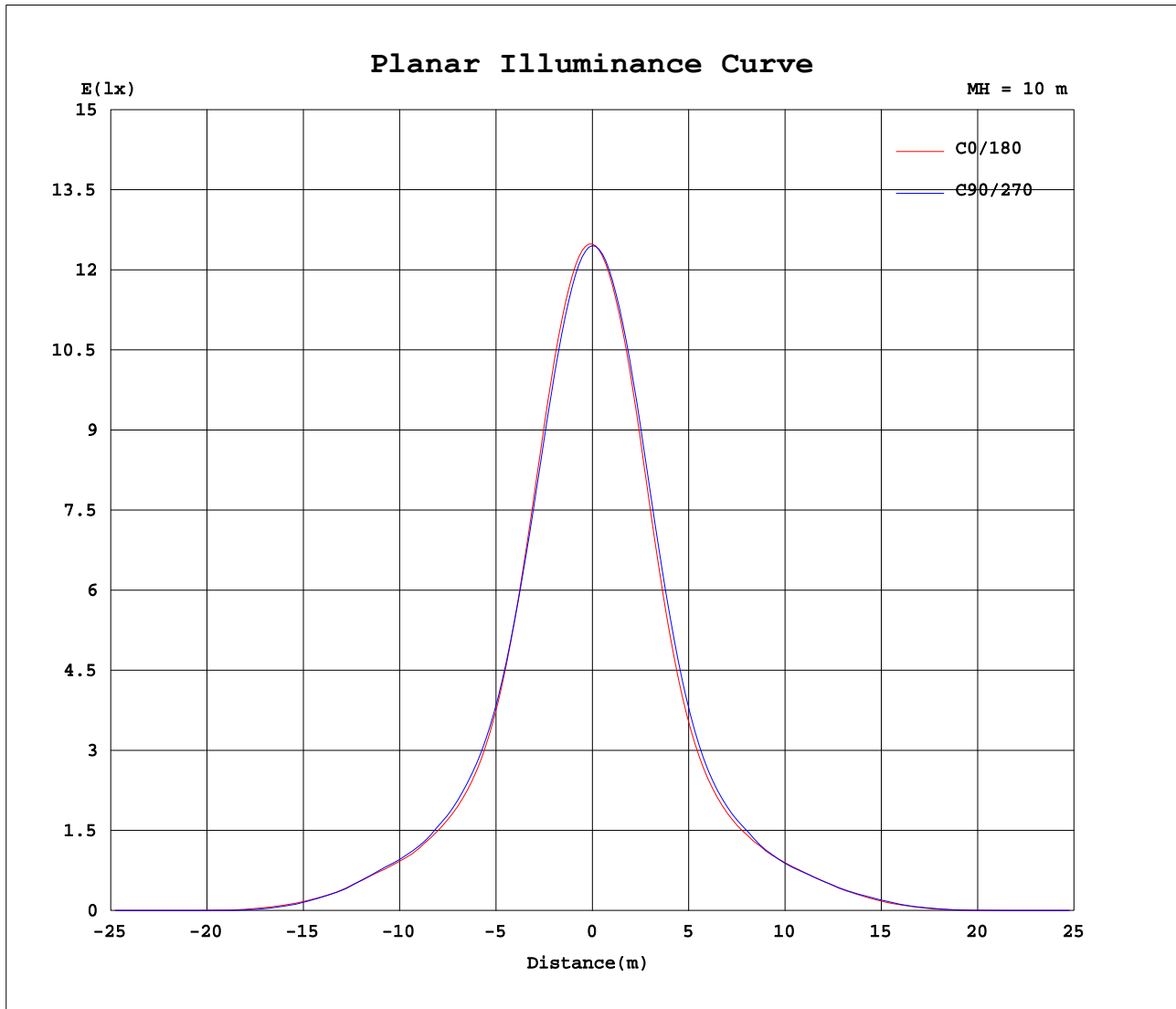
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Planar Illuminance Curve



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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	1249	1248	1248	1247	1246	1246	1245	1245	1245	1244
3.0	1241	1241	1238	1237	1234	1233	1230	1229	1226	1226
6.0	1208	1207	1202	1200	1195	1193	1187	1186	1182	1183
9.0	1148	1148	1141	1139	1131	1129	1122	1121	1116	1117
12.0	1064	1064	1056	1055	1046	1044	1035	1035	1027	1029
15.0	958.1	959.0	950.3	950.9	942.8	942.2	933.4	931.9	923.0	922.4
18.0	839.5	841.1	834.4	837.0	831.0	832.5	823.9	821.7	810.4	807.5
21.0	718.8	721.4	716.7	722.4	719.2	722.5	714.9	711.9	699.1	693.2
24.0	606.8	609.9	607.7	614.8	614.7	619.5	613.3	610.0	596.6	589.1
27.0	511.4	515.0	515.0	524.3	525.5	530.2	525.3	522.0	509.5	501.4
30.0	436.1	440.4	443.4	455.6	456.7	459.7	456.2	453.0	441.4	433.1
33.0	381.5	386.1	392.4	407.0	405.7	406.8	404.4	401.0	391.0	382.8
36.0	342.4	348.1	355.4	368.3	362.6	363.6	360.6	358.3	350.9	344.8
39.0	312.5	317.5	323.6	333.5	328.3	329.9	328.8	326.8	320.7	313.8
42.0	283.2	287.3	292.7	298.4	293.2	295.4	293.8	292.3	287.6	283.1
45.0	261.3	264.9	271.5	275.6	272.8	273.7	271.1	268.8	264.0	261.5
48.0	240.9	244.5	250.0	255.2	251.6	251.6	248.1	247.1	241.6	239.4
51.0	201.8	204.5	205.7	207.2	202.4	204.0	200.0	200.7	196.5	198.4
54.0	142.3	143.0	140.9	143.8	140.8	143.0	140.1	142.3	140.0	143.9
57.0	85.42	84.94	81.26	81.27	77.56	77.47	74.36	76.29	75.57	79.74
60.0	35.68	35.51	29.91	28.60	23.72	23.27	20.91	22.31	21.63	25.30
63.0	4.379	4.207	3.741	3.745	3.672	3.687	3.548	3.590	3.540	3.651
66.0	2.159	2.142	2.056	2.079	2.032	2.079	1.981	1.976	1.931	2.006
69.0	1.208	1.209	1.155	1.170	1.118	1.122	1.052	1.054	1.024	1.078
72.0	0.6012	0.6133	0.5944	0.6111	0.5725	0.5631	0.5069	0.5040	0.4937	0.5324
75.0	0.3004	0.3078	0.3135	0.3121	0.2982	0.2793	0.2522	0.2356	0.2435	0.2509
78.0	0.1163	0.1004	0.1142	0.0829	0.0902	0.0721	0.0634	0.0634	0.0835	0.0634
81.0	0.0831	0.0678	0.0962	0.0634	0.0678	0.0634	0.0700	0.0568	0.0743	0.0568
84.0	0.0700	0.0678	0.0918	0.0634	0.0635	0.0678	0.0656	0.0568	0.0656	0.0525
87.0	0.0634	0.0678	0.0832	0.0634	0.0612	0.0678	0.0656	0.0568	0.0612	0.0525
90.0	0.0547	0.0678	0.1181	0.2427	0.1618	0.0678	0.0678	0.0568	0.0547	0.0525
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	1243	1243	1248	1248	1247	1246	1246	1245	1245	1245
3.0	1224	1224	1231	1230	1231	1231	1232	1232	1235	1235
6.0	1179	1181	1190	1188	1191	1190	1194	1194	1199	1200
9.0	1113	1116	1126	1124	1129	1128	1134	1134	1140	1142
12.0	1024	1027	1038	1036	1043	1043	1051	1051	1060	1061
15.0	915.2	917.7	926.7	924.4	934.1	934.5	945.9	947.1	958.8	958.8
18.0	797.4	797.6	804.7	801.9	812.3	814.4	827.8	831.4	844.1	845.2
21.0	680.6	678.0	682.7	679.2	689.4	692.7	707.4	712.5	726.3	727.5
24.0	575.4	570.2	572.7	568.5	577.2	580.9	595.2	601.4	614.9	616.1
27.0	487.6	481.0	481.1	476.3	482.9	486.5	499.0	505.3	517.4	519.0
30.0	420.2	411.8	410.1	404.8	409.4	412.6	423.2	429.0	439.0	443.2
33.0	370.8	361.5	358.5	353.1	355.6	361.1	373.5	376.4	381.5	388.8
36.0	334.8	326.3	321.5	317.5	317.5	325.4	342.5	344.1	340.7	345.2
39.0	305.6	299.6	296.9	292.0	293.0	301.4	318.7	320.8	313.4	312.6
42.0	278.0	274.5	272.1	268.8	268.5	272.1	280.9	279.5	276.2	275.1
45.0	257.5	256.6	253.6	249.9	248.8	250.9	253.9	251.4	250.8	251.8
48.0	235.8	235.6	233.1	229.0	229.0	229.4	231.4	230.2	232.0	232.9
51.0	196.8	198.7	197.9	194.1	195.1	194.8	196.5	195.3	199.1	198.5
54.0	143.9	148.2	149.3	148.0	151.4	151.1	152.9	152.2	154.9	153.0
57.0	81.23	85.99	89.48	89.56	93.77	94.05	98.34	98.38	102.4	99.33
60.0	26.62	32.34	37.22	37.09	40.69	38.98	41.27	39.76	41.75	39.74
63.0	3.631	3.714	3.968	4.008	4.703	4.759	5.921	5.773	6.771	6.426
66.0	1.973	2.037	2.100	2.092	2.185	2.197	2.346	2.436	2.627	2.602
69.0	1.087	1.155	1.200	1.209	1.263	1.253	1.296	1.312	1.401	1.417
72.0	0.5397	0.5848	0.6108	0.6226	0.6674	0.6446	0.6652	0.6577	0.7044	0.7082
75.0	0.2654	0.2837	0.3054	0.3221	0.3272	0.3134	0.3097	0.3156	0.3382	0.3528
78.0	0.0835	0.0720	0.0761	0.0989	0.0935	0.1032	0.0913	0.1098	0.1066	0.1252
81.0	0.0700	0.0547	0.0415	0.0547	0.0481	0.0612	0.0459	0.0612	0.0613	0.0634
84.0	0.0656	0.0547	0.0350	0.0568	0.0393	0.0568	0.0458	0.0547	0.0962	0.2163
87.0	0.0612	0.0547	0.0328	0.0415	0.0328	0.0416	0.0350	0.0525	0.0785	0.1447
90.0	0.0547	0.0547	0.0328	0.0350	0.0328	0.0372	0.0350	0.0525	0.1531	0.1684
G/C	300.0	315.0	330.0	345.0						
0.0	1245	1244	1243	1243						
3.0	1237	1237	1238	1237						
6.0	1204	1204	1207	1205						
9.0	1148	1147	1151	1148						
12.0	1069	1067	1071	1065						
15.0	967.8	964.1	967.5	960.3						
18.0	853.7	848.9	851.4	843.6						
21.0	735.2	729.7	731.1	722.7						

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	622.7	617.1	617.8	610.2
27.0	523.7	519.1	519.9	513.4
30.0	448.4	444.4	443.1	436.5
33.0	397.5	393.9	387.3	380.4
36.0	357.2	352.9	344.9	339.4
39.0	325.9	319.5	312.4	309.2
42.0	283.4	282.4	280.0	279.2
45.0	257.1	256.9	257.2	257.4
48.0	237.4	236.7	238.9	239.7
51.0	202.6	199.6	202.6	201.7
54.0	154.4	150.0	150.0	146.5
57.0	99.83	93.97	93.29	88.82
60.0	41.18	38.54	40.18	38.14
63.0	7.115	6.137	6.330	5.251
66.0	2.643	2.489	2.438	2.261
69.0	1.453	1.367	1.326	1.244
72.0	0.7481	0.6928	0.6695	0.6096
75.0	0.3600	0.3353	0.3141	0.2894
78.0	0.1044	0.1098	0.0849	0.0988
81.0	0.0568	0.1201	0.0459	0.0656
84.0	0.1048	0.1136	0.0458	0.0612
87.0	0.0458	0.1072	0.0371	0.0459
90.0	0.0328	0.0437	0.0350	0.0394

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: