

LED Downlight FUSION Series FF3-7W-840-40D Specular



Light Output Ratio:	100.0%	
Luminaire Power:	8.872 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.65	fine grid method.

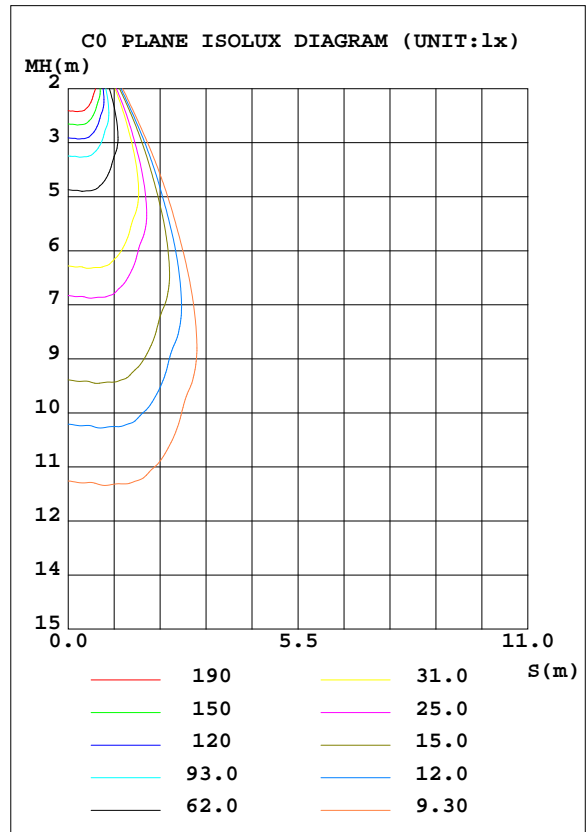
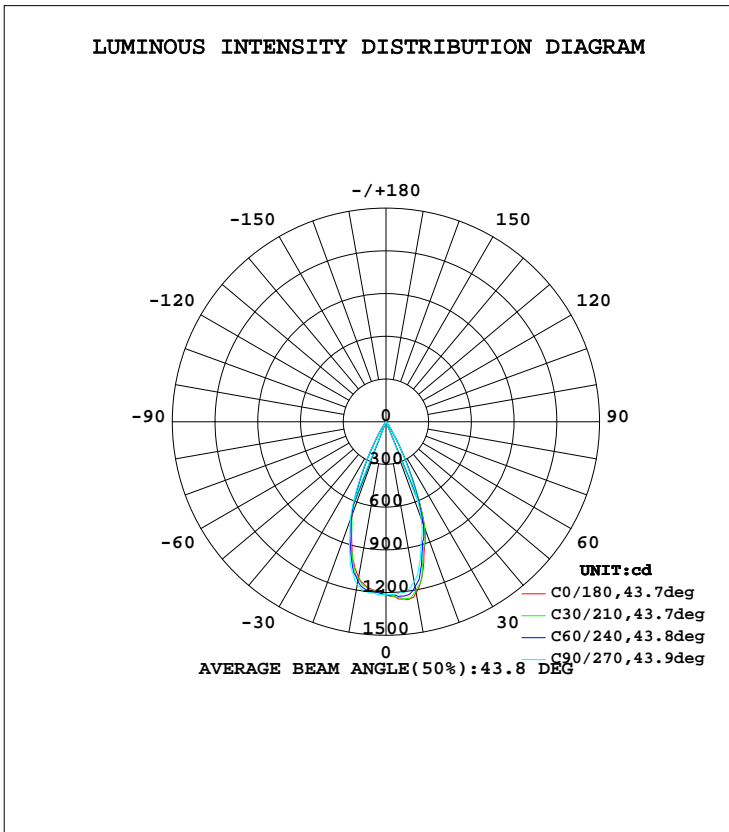
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.2DEG  
Operators: Cao Chengpei  
Test Date: 2016-06-24

$\gamma$  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:

**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:220.2V I:0.0484A P:8.872W PF:0.8329 Lamp Flux:600.683x1 lm		
NAME: FF3-7W-840-40D Specular	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L98mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 67.71 lm/W
MODEL	CREE-4000K	I <sub>max</sub> (cd)	1263	S/MH(C0/180)	0.65	
NOMINAL POWER(W)	8.5	LOR(%)	100.0	S/MH(C90/270)	0.66	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	600.68	η UP, DN(C0-180)	0.0, 50.3	
NOMINAL FLUX(lm)	600.683	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 49.7	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	0.65	



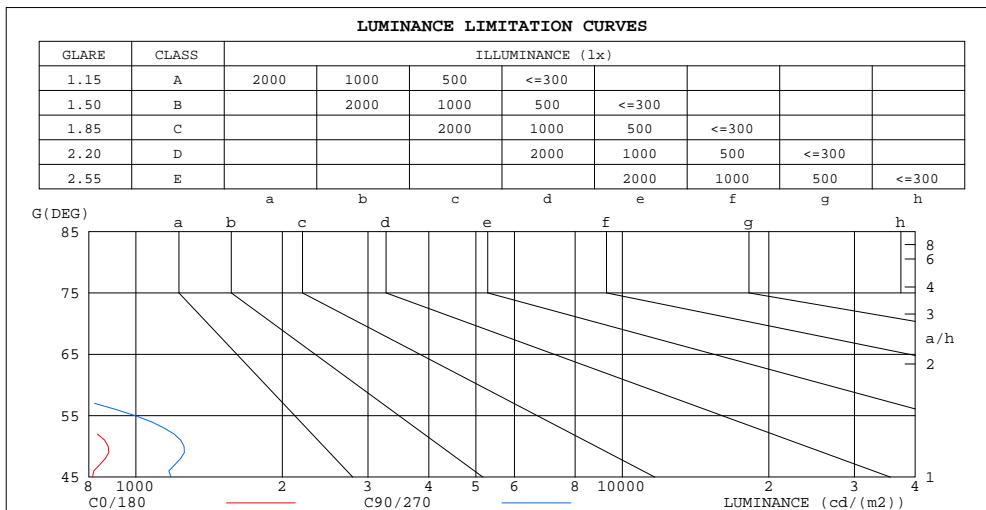
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γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
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 Remarks:

**ZONAL FLUX DIAGRAM  
AND LUMINANCE LIMITATION CURVES**

**ZONAL FLUX DIAGRAM:**

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	#lum,lamp
10	1218	1195	1144	1114	1110	1124	1162	1201	0- 10	114.3	114.3	19,19
20	799.9	777.6	721.8	712.4	692.9	701.7	733.0	769.3	10- 20	266.1	380.4	63.3,63.3
30	152.2	161.1	143.2	145.2	139.8	121.4	140.5	143.9	20- 30	186.9	567.4	94.5,94.5
40	7.229	8.362	8.251	8.370	7.969	6.918	6.862	6.684	30- 40	27.27	594.6	99,99
50	2.487	3.037	3.561	4.018	3.931	3.431	2.381	2.011	40- 50	2.937	597.6	99.5,99.5
60	0.8365	1.062	1.272	2.062	2.301	1.759	1.063	0.8425	50- 60	2.147	599.7	99.8,99.8
70	0.2196	0.3108	0.3689	0.4086	0.3380	0.3668	0.2532	0.2409	60- 70	0.6894	600.4	100,100
80	0.0811	0.1277	0.1472	0.1341	0.0660	0.1280	0.0850	0.1066	70- 80	0.2094	600.6	100,100
90	0.0277	0.0362	0.0256	0.0320	0.0170	0.0234	0.0170	0.0256	80- 90	0.0612	600.7	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		



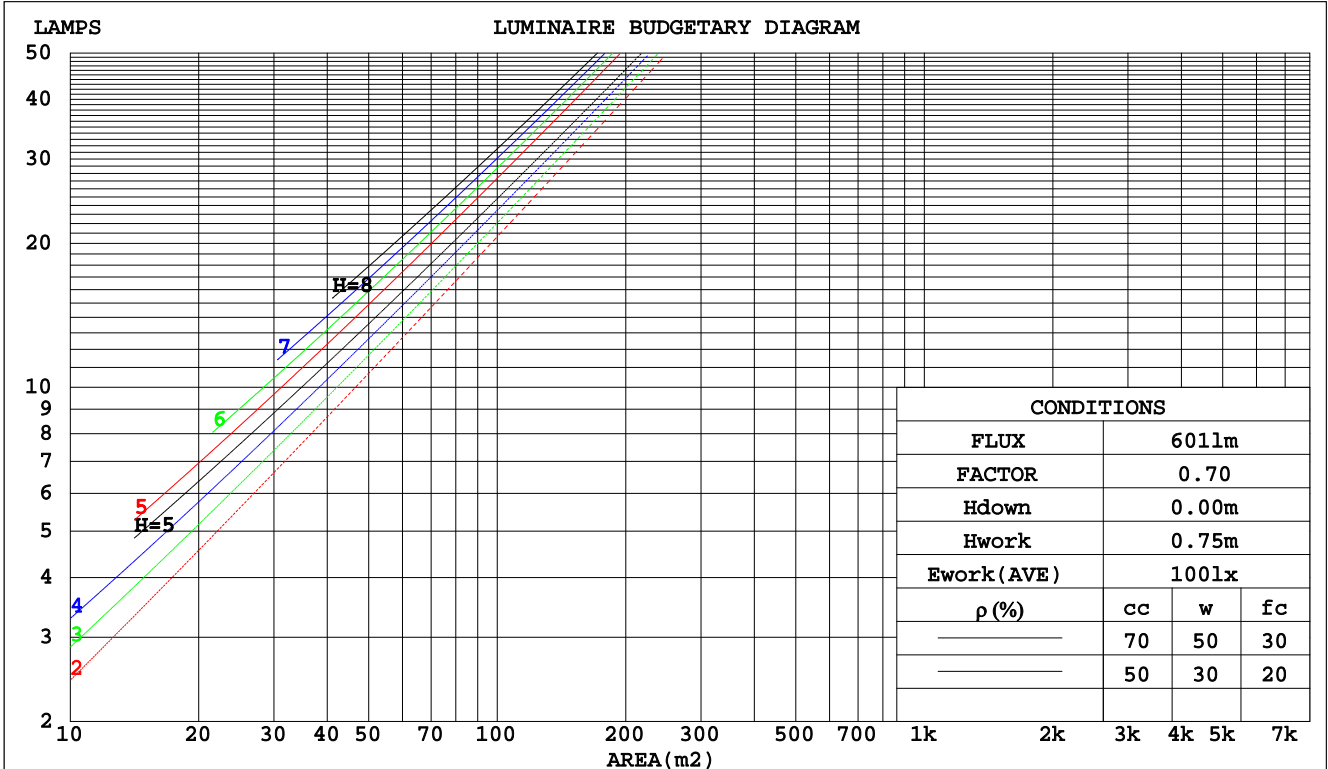
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Humidity: 52%  
Test Distance: 5.850m [K=1.0000]  
Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:220.2V I:0.0484A P:8.872W PF:0.8329 Lamp Flux:600.683x1 lm		
NAME: FF3-7W-840-40D Specular	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L98mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																
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	1.00
1.0	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96
2.0	1.06	1.03	.90	1.04	1.01	.99	1.01	.99	.97	.98	.96	.95	.96	.94	.93	.91
3.0	1.01	.97	.93	.99	.96	.93	.97	.94	.91	.94	.92	.90	.92	.90	.88	.87
4.0	.96	.91	.88	.95	.91	.87	.93	.89	.86	.91	.88	.85	.89	.86	.84	.83
5.0	.91	.87	.83	.90	.86	.83	.89	.85	.82	.87	.84	.81	.86	.83	.81	.79
6.0	.87	.82	.79	.87	.82	.79	.85	.81	.78	.84	.80	.78	.83	.80	.77	.76
7.0	.84	.79	.75	.83	.78	.75	.82	.78	.75	.81	.77	.74	.80	.76	.74	.73
8.0	.80	.75	.72	.80	.75	.72	.79	.74	.72	.78	.74	.71	.77	.73	.71	.70
9.0	.77	.72	.69	.76	.72	.69	.76	.71	.69	.75	.71	.68	.74	.71	.68	.67
10.0	.74	.69	.66	.74	.69	.66	.73	.69	.66	.72	.68	.66	.71	.68	.66	.64



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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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ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.152	.086	.027	.145	.083	.026	.132	.076	.024	.121	.070	.022	.110	.064	.021	
2.0	.142	.078	.024	.137	.075	.023	.126	.070	.022	.117	.065	.020	.108	.061	.019	
3.0	.134	.071	.021	.129	.069	.021	.120	.065	.020	.112	.062	.019	.105	.058	.018	
4.0	.127	.066	.019	.123	.064	.019	.115	.061	.018	.108	.058	.018	.102	.055	.017	
5.0	.120	.061	.018	.117	.060	.017	.110	.057	.017	.104	.055	.016	.099	.053	.016	
6.0	.114	.057	.016	.112	.056	.016	.106	.054	.016	.101	.052	.015	.096	.051	.015	
7.0	.109	.054	.015	.107	.053	.015	.102	.052	.015	.097	.050	.015	.093	.048	.014	
8.0	.105	.051	.014	.103	.050	.014	.098	.049	.014	.094	.048	.014	.090	.046	.014	
9.0	.101	.049	.014	.099	.048	.013	.095	.047	.013	.091	.046	.013	.088	.045	.013	
10.0	.097	.046	.013	.095	.046	.013	.092	.045	.013	.088	.044	.012	.085	.043	.012	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.152	.133	.116	.130	.114	.100	.089	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.138	.113	.094	.119	.098	.081	.081	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.127	.098	.077	.109	.085	.067	.075	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.117	.086	.064	.100	.075	.055	.069	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.109	.076	.053	.093	.066	.047	.064	.046	.033	.037	.027	.020	.012	.009	.006	
7.0	.102	.069	.045	.087	.059	.040	.060	.042	.028	.035	.025	.017	.011	.008	.006	
8.0	.096	.062	.039	.082	.054	.034	.057	.038	.024	.033	.022	.014	.011	.007	.005	
9.0	.090	.057	.034	.078	.049	.030	.054	.035	.021	.031	.020	.013	.010	.007	.004	
10.0	.086	.052	.030	.074	.045	.026	.051	.032	.018	.030	.019	.011	.010	.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

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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	7.2	8.0	7.4	8.1	8.3	7.2	7.9	7.4	8.1	8.2
3H	7.1	7.8	7.3	8.0	8.2	7.0	7.7	7.3	7.9	8.1
4H	7.0	7.7	7.3	7.9	8.1	7.0	7.6	7.2	7.8	8.1
6H	6.9	7.5	7.2	7.8	8.0	6.9	7.5	7.2	7.7	8.0
8H	6.9	7.5	7.2	7.7	8.0	6.8	7.4	7.1	7.7	7.9
12H	6.8	7.4	7.1	7.7	7.9	6.8	7.4	7.1	7.6	7.9
4H 2H	7.0	7.7	7.3	7.9	8.1	7.0	7.6	7.2	7.8	8.0
3H	6.8	7.4	7.2	7.7	8.0	6.8	7.4	7.1	7.6	7.9
4H	6.8	7.3	7.1	7.6	7.9	6.7	7.3	7.1	7.5	7.8
6H	6.7	7.1	7.0	7.5	7.8	6.6	7.1	7.0	7.4	7.8
8H	6.6	7.0	7.0	7.4	7.8	6.6	7.0	7.0	7.4	7.7
12H	6.6	7.0	7.0	7.3	7.7	6.5	6.9	7.0	7.3	7.7
8H 4H	6.6	7.0	7.0	7.4	7.8	6.6	7.0	7.0	7.4	7.7
6H	6.5	6.9	6.9	7.3	7.7	6.5	6.9	6.9	7.2	7.7
8H	6.5	6.8	6.9	7.2	7.6	6.4	6.8	6.9	7.2	7.6
12H	6.4	6.7	6.9	7.1	7.6	6.4	6.7	6.9	7.1	7.6
12H 4H	6.6	7.0	7.0	7.3	7.7	6.5	6.9	6.9	7.3	7.7
6H	6.5	6.8	6.9	7.2	7.6	6.4	6.8	6.9	7.2	7.6
8H	6.4	6.7	6.9	7.1	7.6	6.4	6.7	6.9	7.1	7.6
Variations with the observer position at spacings:										
S = 1.0H	+ 3.8 / - 5.3					+ 3.6 / - 3.9				
1.5H	+ 5.7 / - 4.2					+ 5.4 / - 3.7				
2.0H	+ 2.1 / - 3.8					+ 2.5 / - 4.0				

CIE Pub.117 Corrected 600.7 lm Total Lamp Luminous Flux. (8log(F/F0) = -1.8)

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γ Range: 0 - 90DEG  
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 Humidity:52%  
 Test Distance:5.850m [K=1.0000]  
 Remarks:

**UTILIZATION FACTORS TABLE**

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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	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**

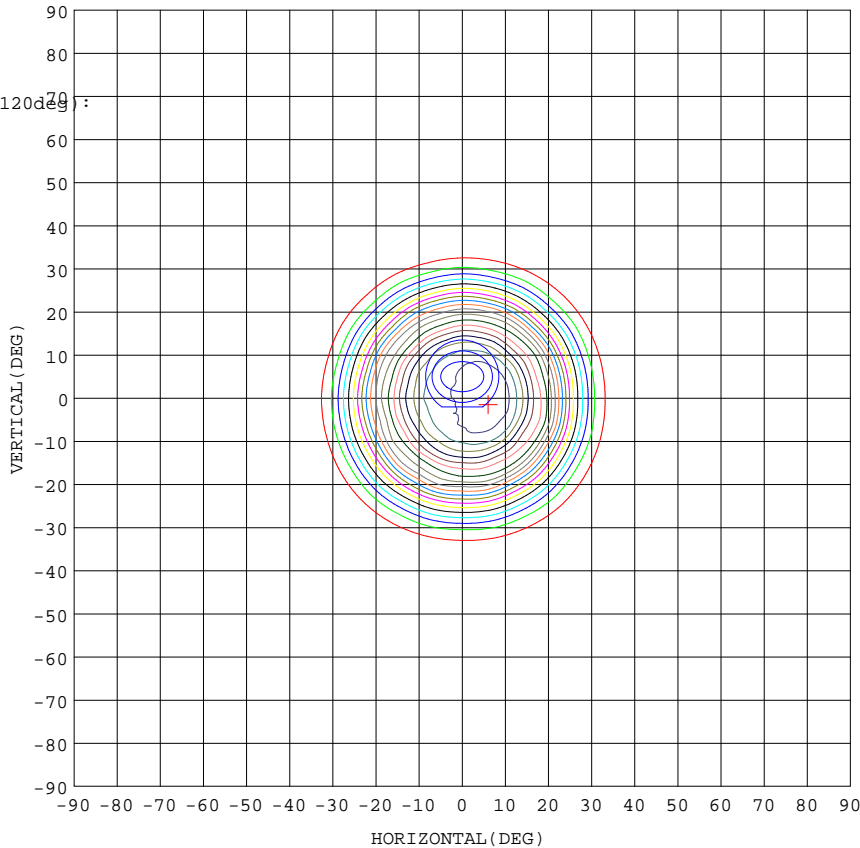
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MFR.: NEKO LIGHTING AG		

Conical surface Flux(90deg):

596.34 lm  
%lum = 99.3%  
%lamp = 99.3%

Conical surface Flux(120deg):

599.72 lm  
%lum = 99.8%  
%lamp = 99.8%



1. AVG=1207,MIN=1172
2. AVG=1199,MIN=1125
3. AVG=1184,MIN=1050

Imax:1261(H6.0,V-1.5)  
(At:C=15.0,Gamma=6.0)

UNIT: cd

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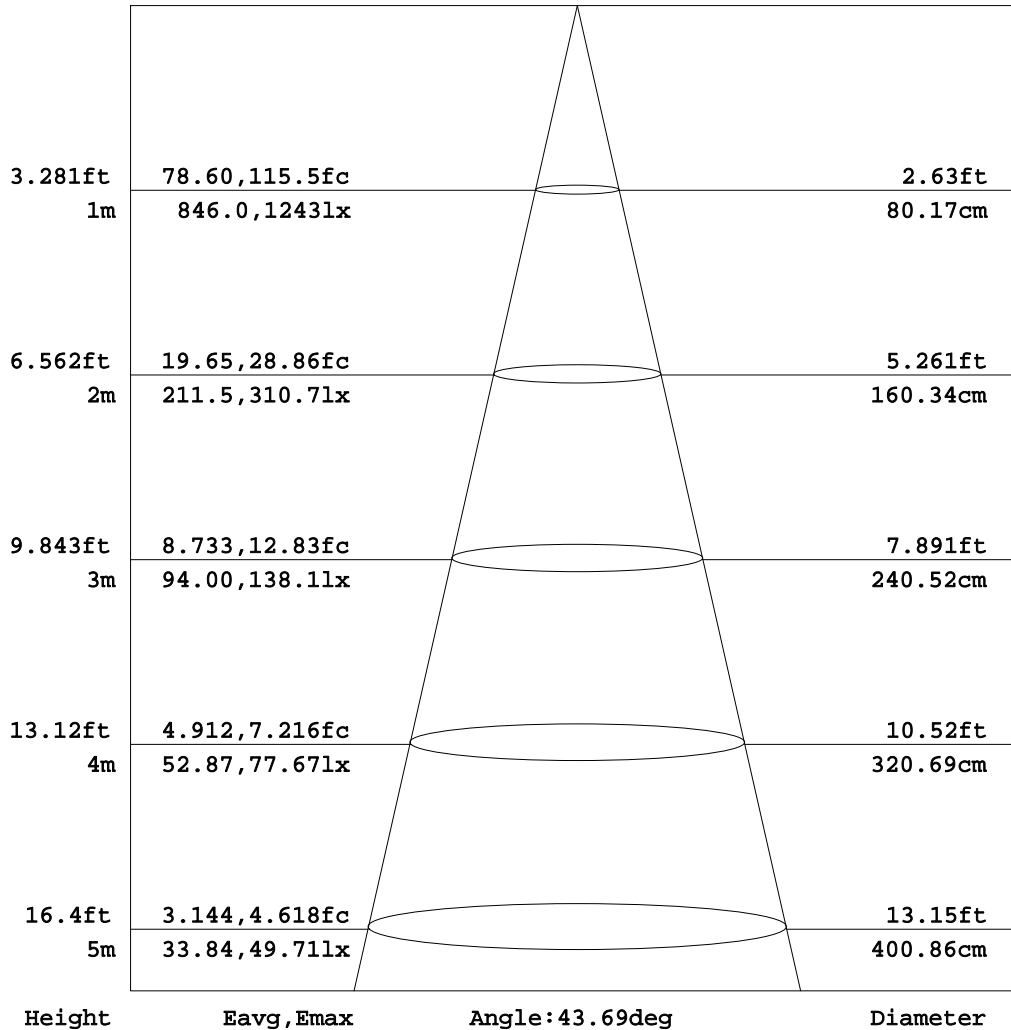
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**AAI Figure**

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Flux out:433.8 lm



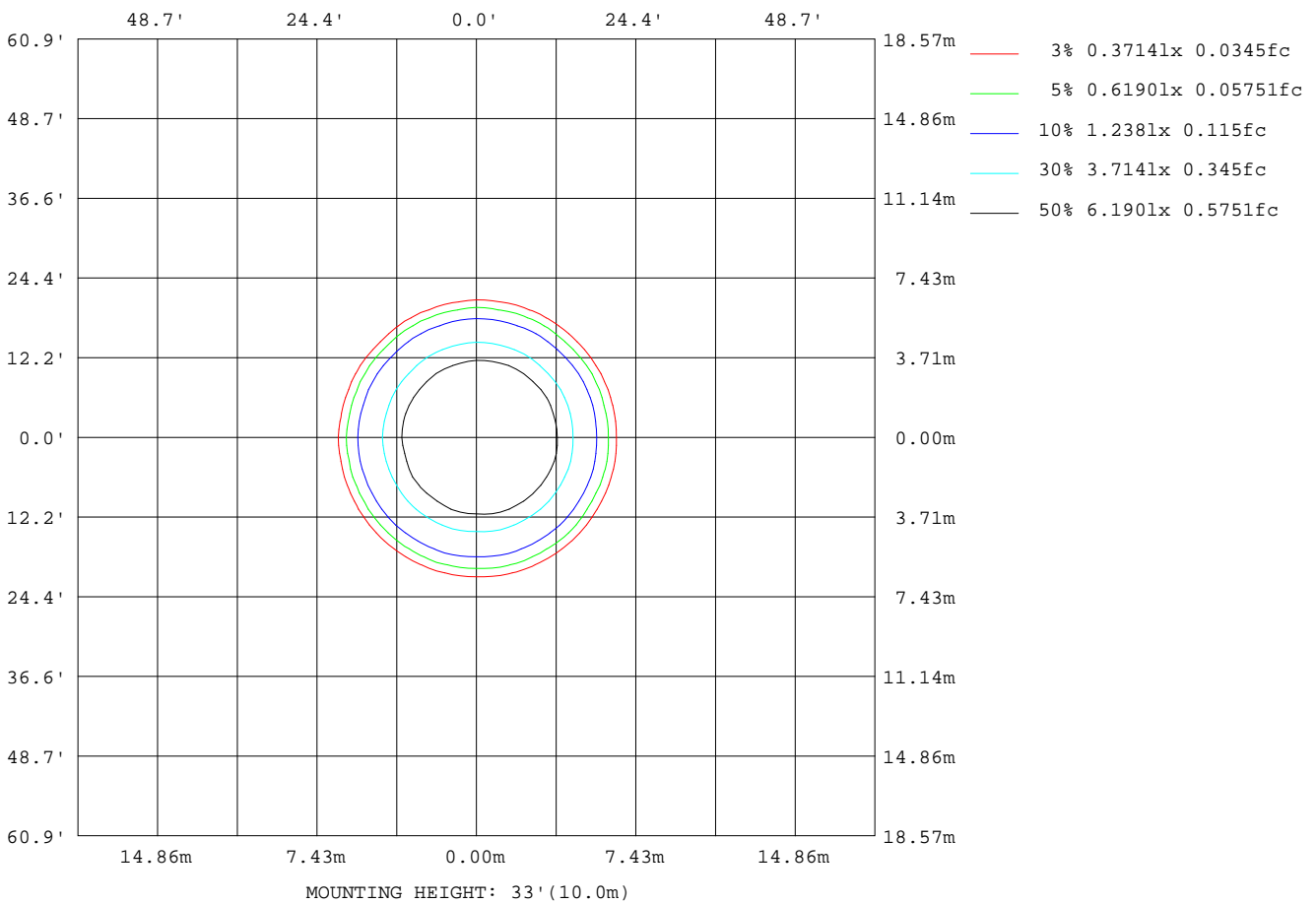
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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**ISOLUX DIAGRAM**

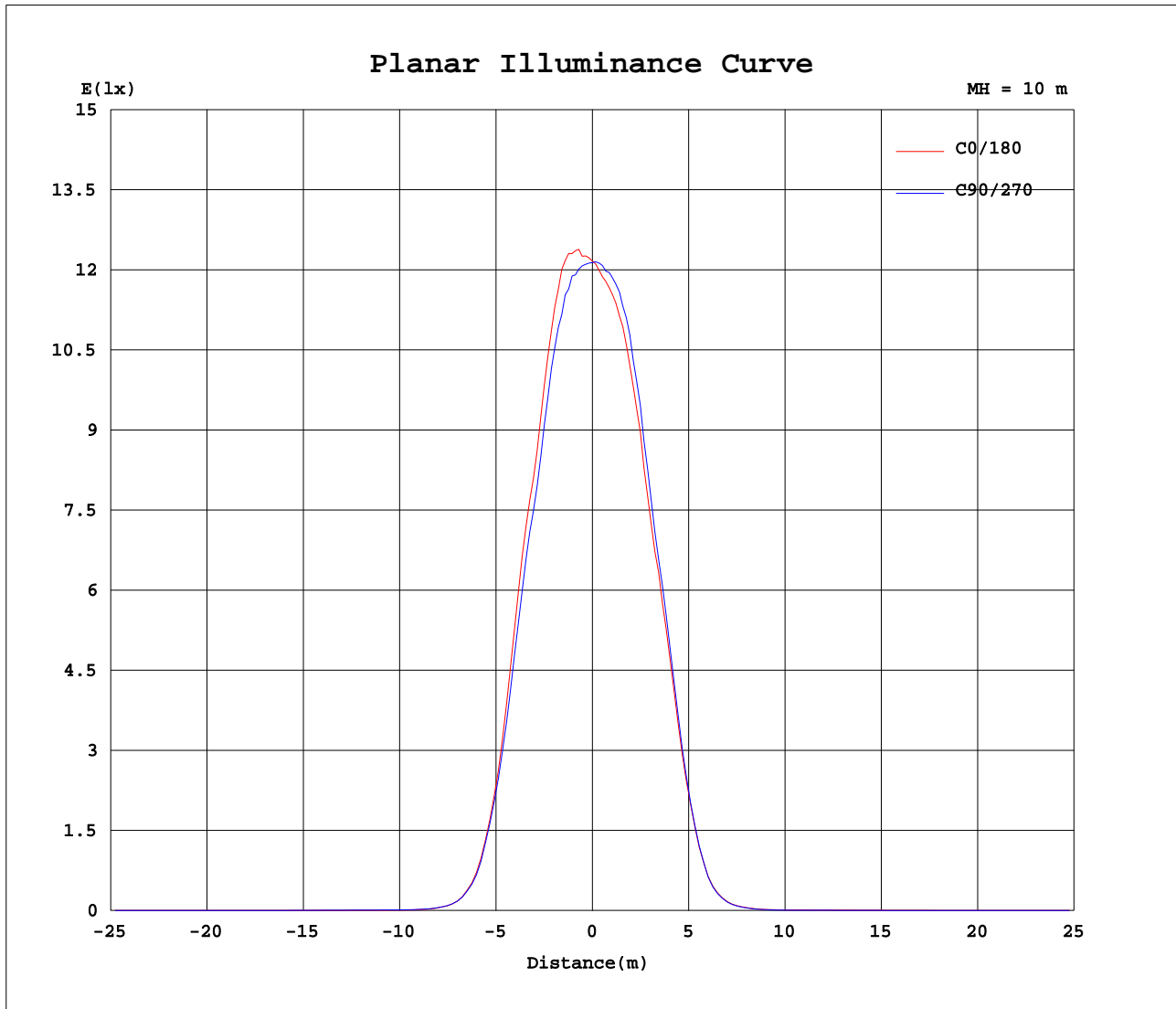
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Planar Illuminance Curve



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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	1217	1216	1215	1215	1214	1215	1214	1215	1214	1215
3.0	1231	1235	1232	1228	1219	1217	1213	1203	1195	1197
6.0	1251	1263	1252	1240	1231	1217	1208	1196	1181	1179
9.0	1247	1238	1228	1223	1200	1183	1159	1152	1141	1133
12.0	1161	1164	1160	1146	1129	1097	1086	1070	1050	1043
15.0	1026	1019	1004	999.2	974.2	964.7	943.0	942.2	929.6	928.6
18.0	894.2	903.1	888.2	866.1	858.7	835.9	825.1	804.1	781.0	777.3
21.0	733.8	750.3	727.9	718.6	697.1	692.9	662.6	677.8	645.8	658.9
24.0	507.7	516.7	505.6	505.0	484.6	483.3	462.7	464.0	459.0	454.8
27.0	302.7	314.8	310.1	310.3	298.1	298.3	287.0	290.5	280.5	289.4
30.0	152.2	159.6	157.6	161.1	154.2	154.0	143.2	150.3	140.2	145.2
33.0	65.39	67.95	67.37	69.10	67.44	66.60	62.65	61.40	60.83	58.11
36.0	23.56	25.32	25.57	26.24	25.48	25.56	23.87	23.96	22.89	23.27
39.0	9.759	10.45	10.37	11.22	10.99	11.17	10.73	11.22	11.03	11.50
42.0	4.509	4.802	4.915	5.224	5.300	5.436	5.395	5.537	5.416	5.348
45.0	2.540	2.773	3.004	3.211	3.360	3.527	3.681	3.838	3.866	3.785
48.0	2.554	2.791	2.978	3.131	3.272	3.440	3.645	3.890	3.978	3.944
51.0	2.393	2.630	2.809	2.923	3.016	3.194	3.431	3.763	3.973	4.013
54.0	1.917	2.126	2.267	2.376	2.412	2.582	2.789	3.187	3.481	3.701
57.0	1.331	1.477	1.592	1.683	1.702	1.826	1.976	2.330	2.645	2.971
60.0	0.8365	0.9083	1.001	1.062	1.090	1.168	1.272	1.510	1.758	2.062
63.0	0.5187	0.5488	0.6127	0.6574	0.6958	0.7234	0.7919	0.9189	1.074	1.272
66.0	0.3414	0.3533	0.4117	0.4449	0.4863	0.4938	0.5376	0.5874	0.6701	0.7447
69.0	0.2389	0.2575	0.3092	0.3364	0.3753	0.3704	0.4030	0.4108	0.4565	0.4681
72.0	0.1855	0.1980	0.2474	0.2660	0.2943	0.2832	0.3093	0.3065	0.3370	0.3235
75.0	0.1514	0.1533	0.1941	0.2044	0.2325	0.2277	0.2473	0.2320	0.2538	0.2320
78.0	0.1109	0.1107	0.1514	0.1554	0.1812	0.1618	0.1791	0.1660	0.1877	0.1639
81.0	0.0746	0.0787	0.1152	0.1106	0.1280	0.1085	0.1301	0.1170	0.1344	0.1191
84.0	0.0405	0.0531	0.0811	0.0659	0.0833	0.0659	0.0832	0.0659	0.0876	0.0702
87.0	0.0362	0.0320	0.0470	0.0362	0.0470	0.0277	0.0385	0.0277	0.0470	0.0320
90.0	0.0277	0.0320	0.0383	0.0362	0.0320	0.0277	0.0256	0.0256	0.0320	0.0320
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	1213	1216	1217	1216	1215	1215	1214	1215	1214	1215
3.0	1191	1190	1192	1197	1199	1203	1201	1205	1213	1217
6.0	1173	1171	1173	1168	1182	1186	1191	1196	1204	1218
9.0	1123	1124	1135	1132	1141	1144	1162	1171	1175	1193
12.0	1032	1045	1049	1045	1061	1058	1086	1093	1102	1120
15.0	907.1	913.0	921.4	926.9	937.2	938.8	956.6	960.3	977.2	990.2
18.0	782.4	764.8	782.2	775.6	777.8	780.0	800.8	801.7	824.7	839.7
21.0	640.6	634.4	646.2	642.6	653.8	643.4	655.6	657.3	678.1	686.6
24.0	446.4	447.8	460.0	444.4	449.5	443.5	460.1	461.4	480.1	478.1
27.0	278.1	279.0	281.7	270.8	276.6	266.7	273.5	274.2	285.5	288.4
30.0	132.4	137.3	139.8	126.5	131.3	121.4	131.2	127.4	140.5	136.7
33.0	57.42	55.39	56.37	52.18	52.14	49.55	51.78	50.99	54.69	57.24
36.0	22.06	22.02	22.28	20.90	20.86	20.23	20.75	20.29	21.39	21.37
39.0	10.88	11.06	11.08	10.25	10.21	9.560	9.851	9.383	9.675	9.354
42.0	5.074	5.022	5.003	4.793	4.665	4.332	4.364	4.326	4.541	4.326
45.0	3.700	3.583	3.537	3.411	3.285	3.109	2.844	2.579	2.373	2.202
48.0	3.891	3.827	3.784	3.646	3.512	3.314	3.021	2.669	2.392	2.177
51.0	4.013	3.964	3.947	3.807	3.660	3.440	3.097	2.703	2.345	2.126
54.0	3.772	3.774	3.773	3.633	3.479	3.201	2.834	2.400	2.067	1.848
57.0	3.094	3.153	3.188	3.025	2.890	2.554	2.215	1.838	1.589	1.405
60.0	2.189	2.251	2.301	2.147	2.067	1.759	1.499	1.226	1.063	0.9384
63.0	1.356	1.380	1.420	1.321	1.299	1.086	0.9120	0.7511	0.6506	0.5910
66.0	0.7900	0.7680	0.7803	0.7490	0.7528	0.6507	0.5509	0.4778	0.4085	0.3881
69.0	0.4802	0.4276	0.4166	0.4267	0.4423	0.4159	0.3553	0.3305	0.2788	0.2814
72.0	0.3222	0.2596	0.2340	0.2688	0.2872	0.2943	0.2511	0.2452	0.2086	0.2217
75.0	0.2346	0.1809	0.1639	0.2004	0.2043	0.2217	0.1851	0.1876	0.1554	0.1706
78.0	0.1727	0.1319	0.1063	0.1429	0.1468	0.1642	0.1319	0.1407	0.1086	0.1258
81.0	0.1279	0.0809	0.0594	0.1024	0.0978	0.1109	0.0850	0.0939	0.0702	0.0938
84.0	0.0854	0.0595	0.0191	0.0704	0.0636	0.0704	0.0403	0.0534	0.0318	0.0534
87.0	0.0449	0.0362	0.0170	0.0406	0.0256	0.0342	0.0213	0.0277	0.0170	0.0278
90.0	0.0341	0.0362	0.0170	0.0277	0.0256	0.0234	0.0213	0.0192	0.0170	0.0192
G/C	300.0	315.0	330.0	345.0						
0.0	1214	1215	1213	1216						
3.0	1221	1227	1232	1235						
6.0	1227	1236	1244	1254						
9.0	1214	1227	1234	1245						
12.0	1134	1149	1150	1163						
15.0	1008	1008	1018	1023						
18.0	848.5	861.1	878.7	874.2						
21.0	708.8	710.5	733.6	730.6						

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.2DEG  
Operators: Cao Chengpei  
Test Date: 2016-06-24

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	495.2	490.7	509.7	509.3
27.0	297.6	295.4	308.8	308.3
30.0	148.5	143.9	153.6	153.0
33.0	58.66	60.97	62.98	65.20
36.0	22.85	22.73	24.27	23.82
39.0	9.854	9.535	10.12	9.944
42.0	4.319	4.297	4.412	4.423
45.0	2.100	2.079	2.184	2.295
48.0	2.056	2.019	2.098	2.245
51.0	1.993	1.960	2.008	2.135
54.0	1.737	1.690	1.711	1.755
57.0	1.325	1.277	1.274	1.252
60.0	0.8825	0.8425	0.8272	0.7935
63.0	0.5486	0.5249	0.5018	0.4971
66.0	0.3553	0.3476	0.3213	0.3284
69.0	0.2575	0.2579	0.2298	0.2388
72.0	0.1979	0.2089	0.1767	0.1897
75.0	0.1511	0.1620	0.1384	0.1514
78.0	0.1107	0.1300	0.1022	0.1151
81.0	0.0723	0.0938	0.0723	0.0831
84.0	0.0361	0.0598	0.0446	0.0576
87.0	0.0192	0.0341	0.0256	0.0384
90.0	0.0192	0.0256	0.0256	0.0320

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.2DEG  
Operators: Cao Chengpei  
Test Date: 2016-06-24

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: