

LED Tracklight FOCUS M-42W-930-35D



Light Output Ratio:	100.0%	
Luminaire Power:	41.18 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.55	fine grid method.

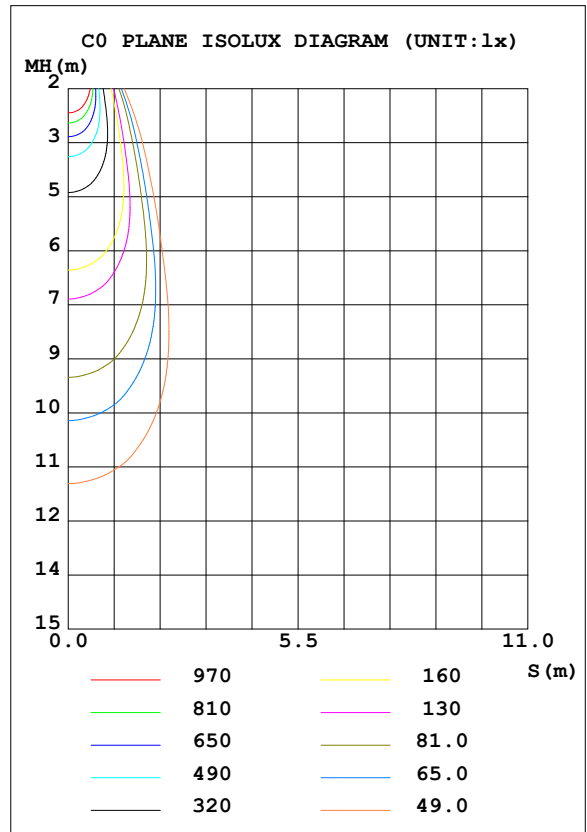
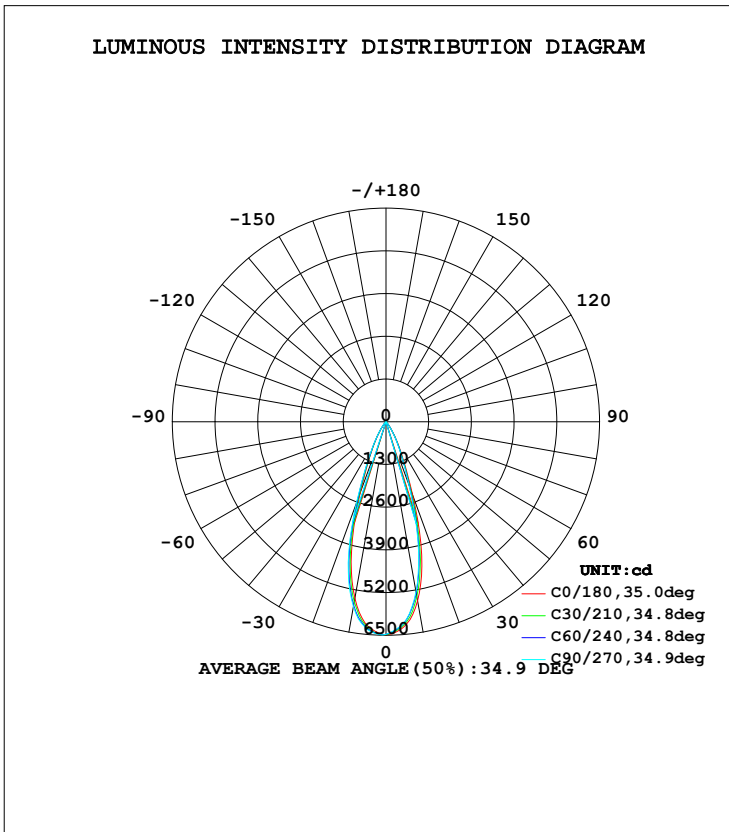
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng Yongjian
 Test Date: 2017-08-07

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:0.1985A P:41.18W PF:0.9403 Lamp Flux:2483.35x1 lm		
NAME: FOCUS M-42W-930-35D	TYPE:Tracklight	SERIAL No.:
SPEC.:3000K	DIM.: φ90mm*H220mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 60.31 lm/W			
MODEL	CITIZEN-3000K	I _{max} (cd)	6530	S/MH (C0/180)	0.55
NOMINAL POWER (W)	42	LOR (%)	100.0	S/MH (C90/270)	0.57
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	2483.4	η UP, DN (C0-180)	0.0, 47.8
NOMINAL FLUX (lm)	2483.35	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 52.2
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	0.55



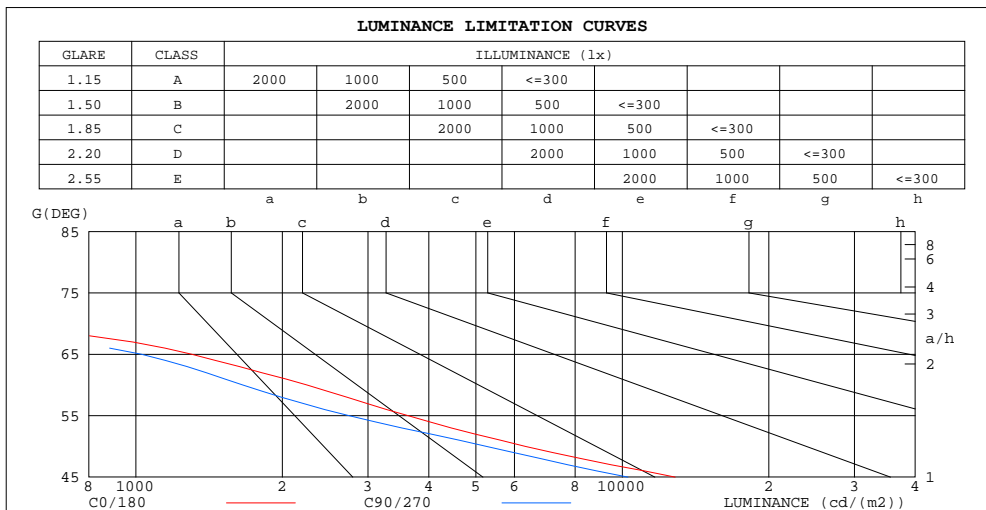
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	5533	5361	5259	5389	5456	5594	5717	5671	0- 10	573.9	573.9	23.1,23.1
20	2365	2184	2057	2162	2278	2429	2634	2568	10- 20	1097	1671	67.3,67.3
30	622.0	584.8	556.7	584.3	608.0	606.1	651.2	655.6	20- 30	570.5	2242	90.3,90.3
40	112.5	99.20	95.52	102.1	105.1	114.6	127.9	127.1	30- 40	181.9	2424	97.6,97.6
50	25.83	23.30	21.48	22.29	23.57	25.74	26.67	28.92	40- 50	44.53	2468	99.4,99.4
60	7.140	6.002	5.270	5.509	5.804	6.119	6.412	6.139	50- 60	11.51	2480	99.8,99.8
70	0.7008	0.7293	0.7356	0.7689	0.8298	0.9231	1.031	0.8347	60- 70	3.176	2483	100,100
80	0.2145	0.2009	0.2561	0.2446	0.2467	0.2626	0.2424	0.2363	70- 80	0.4646	2483	100,100
90	0.1137	0.1093	0.1224	0.1137	0.0700	0.0700	0.0700	0.0743	80- 90	0.1592	2483	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	261	288
80	194	232
75	218	253
70	322	338
65	1302	1026
60	2246	1658
55	3628	2743
50	6320	5255
45	12845	10268

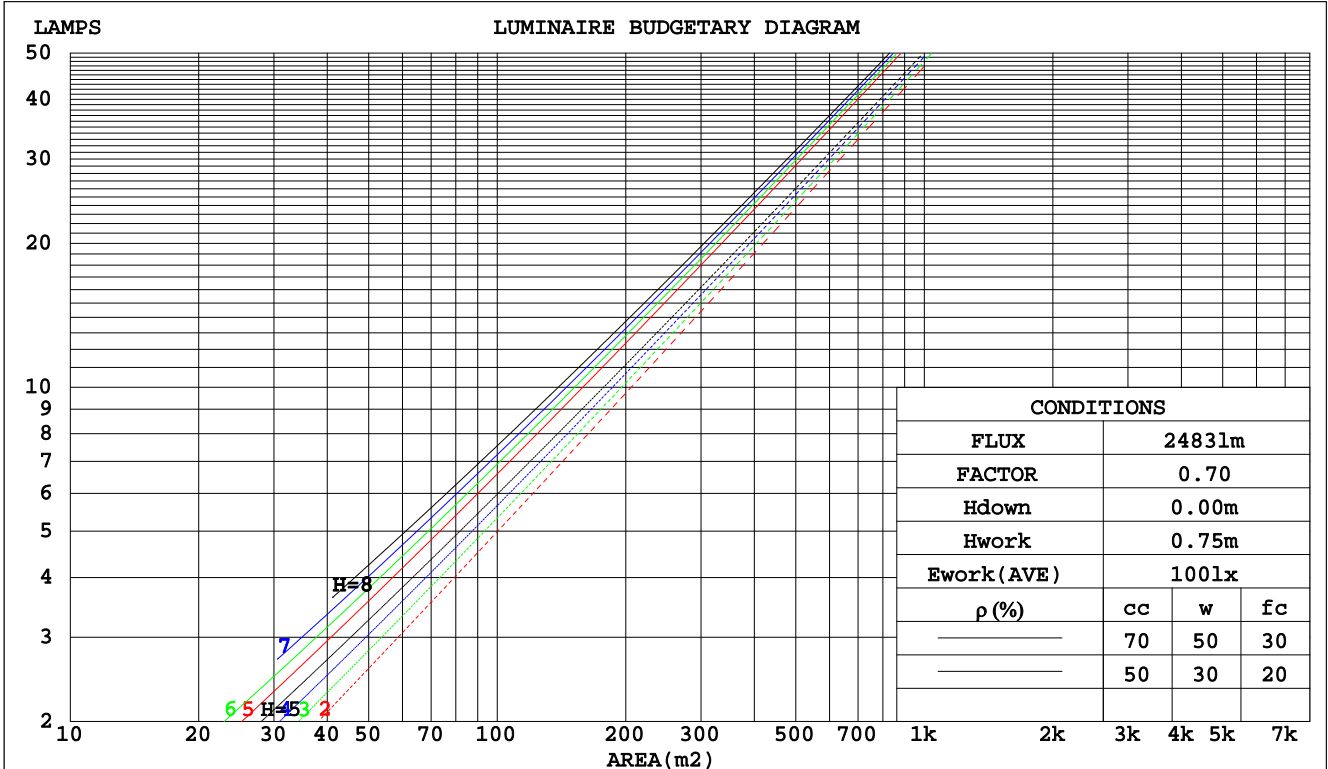
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γ Range: 0 - 90DEG
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 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
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 Test Distance: 5.850m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.6V I:0.1985A P:41.18W PF:0.9403 Lamp Flux:2483.35x1 lm		
NAME: FOCUS M-42W-930-35D	TYPE:Tracklight	SERIAL No.:
SPEC.:3000K	DIM.: φ90mm*H220mm	
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
ρw																0
ρfc																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	1.07	1.06	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96
2.0	1.06	1.03	1.00	1.04	1.01	.99	1.01	.99	.97	.98	.96	.95	.96	.94	.93	.91
3.0	1.01	.97	.94	.99	.96	.93	.97	.94	.91	.95	.92	.90	.92	.90	.89	.87
4.0	.96	.92	.88	.95	.91	.88	.93	.89	.87	.91	.88	.86	.89	.87	.85	.83
5.0	.92	.87	.84	.91	.86	.83	.89	.85	.83	.88	.84	.82	.86	.83	.81	.80
6.0	.88	.83	.80	.87	.83	.79	.86	.82	.79	.84	.81	.78	.83	.80	.78	.77
7.0	.84	.79	.76	.84	.79	.76	.82	.78	.75	.81	.78	.75	.80	.77	.75	.74
8.0	.81	.76	.73	.80	.76	.73	.79	.75	.72	.78	.75	.72	.78	.74	.72	.71
9.0	.78	.73	.70	.77	.73	.70	.77	.72	.70	.76	.72	.69	.75	.72	.69	.68
10.0	.75	.70	.67	.75	.70	.67	.74	.70	.67	.73	.69	.67	.73	.69	.67	.66



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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	.150	.085	.027	.143	.082	.026	.131	.075	.024	.119	.069	.022	.109	.063	.020	
2.0	.141	.077	.024	.135	.075	.023	.125	.069	.022	.115	.065	.020	.107	.060	.019	
3.0	.132	.071	.021	.128	.068	.021	.119	.065	.020	.111	.061	.019	.104	.057	.018	
4.0	.125	.065	.019	.121	.063	.019	.114	.060	.018	.107	.057	.017	.101	.055	.017	
5.0	.119	.060	.018	.115	.059	.017	.109	.057	.017	.103	.054	.016	.098	.052	.016	
6.0	.113	.057	.016	.110	.056	.016	.104	.054	.016	.099	.052	.015	.094	.050	.015	
7.0	.108	.053	.015	.105	.052	.015	.100	.051	.015	.096	.049	.014	.092	.048	.014	
8.0	.103	.050	.014	.101	.050	.014	.096	.048	.014	.092	.047	.014	.089	.046	.013	
9.0	.099	.048	.013	.097	.047	.013	.093	.046	.013	.089	.045	.013	.086	.044	.013	
10.0	.095	.045	.013	.093	.045	.013	.090	.044	.012	.086	.043	.012	.083	.042	.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	.127	.099	.093	.088	.057	.054	.051	.018	.017	.016	
2.0	.152	.133	.116	.130	.114	.101	.089	.079	.070	.051	.046	.041	.017	.015	.013	
3.0	.138	.113	.094	.118	.098	.081	.081	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.126	.098	.077	.108	.085	.067	.075	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.116	.086	.064	.100	.075	.055	.069	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.108	.076	.054	.093	.066	.047	.064	.046	.033	.037	.027	.020	.012	.009	.006	
7.0	.101	.068	.046	.087	.059	.040	.060	.042	.028	.035	.025	.017	.011	.008	.006	
8.0	.095	.062	.039	.082	.054	.034	.056	.038	.024	.033	.022	.014	.011	.007	.005	
9.0	.089	.056	.034	.077	.049	.030	.053	.034	.021	.031	.020	.013	.010	.007	.004	
10.0	.085	.052	.030	.073	.045	.026	.051	.032	.019	.030	.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

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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	13.9	14.7	14.1	14.8	15.0	13.2	13.9	13.4	14.1	14.2
3H	13.8	14.5	14.0	14.7	14.9	13.0	13.7	13.3	13.9	14.1
4H	13.7	14.4	14.0	14.6	14.8	12.9	13.6	13.2	13.8	14.0
6H	13.6	14.2	13.9	14.5	14.7	12.9	13.5	13.1	13.7	13.9
8H	13.6	14.2	13.9	14.4	14.7	12.8	13.4	13.1	13.7	13.9
12H	13.5	14.1	13.8	14.4	14.6	12.8	13.3	13.1	13.6	13.9
4H 2H	13.7	14.4	14.0	14.6	14.8	13.0	13.6	13.2	13.8	14.0
3H	13.5	14.1	13.9	14.4	14.6	12.8	13.4	13.1	13.6	13.9
4H	13.4	14.0	13.8	14.3	14.6	12.7	13.2	13.0	13.5	13.8
6H	13.3	13.8	13.7	14.1	14.5	12.6	13.1	13.0	13.4	13.7
8H	13.3	13.7	13.7	14.1	14.4	12.5	13.0	12.9	13.3	13.7
12H	13.2	13.6	13.6	14.0	14.4	12.5	12.9	12.9	13.3	13.6
8H 4H	13.3	13.7	13.7	14.1	14.4	12.5	13.0	12.9	13.3	13.7
6H	13.2	13.5	13.6	13.9	14.3	12.4	12.8	12.9	13.2	13.6
8H	13.1	13.4	13.6	13.9	14.3	12.4	12.7	12.8	13.1	13.5
12H	13.1	13.3	13.5	13.8	14.2	12.3	12.6	12.8	13.0	13.5
12H 4H	13.2	13.6	13.6	14.0	14.4	12.5	12.9	12.9	13.3	13.6
6H	13.1	13.4	13.6	13.9	14.3	12.4	12.7	12.8	13.1	13.5
8H	13.1	13.3	13.5	13.8	14.2	12.3	12.6	12.8	13.0	13.5
Variations with the observer position at spacings:										
S = 1.0H	+ 3.6 / - 9.3					+ 3.4 / - 9.8				
1.5H	+ 5.6 / - 7.3					+ 5.4 / - 7.3				
2.0H	+ 6.0 / - 6.4					+ 5.6 / - 5.9				

CIE Pub.117 Corrected 2483 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.2)

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 Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.6V I:0.1985A P:41.18W PF:0.9403 Lamp Flux:2483.35x1 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	90	84	81	90	84	81	89	84	80	77
0.80	97	92	88	96	91	88	95	91	88	84
1.00	101	96	93	100	96	92	99	95	92	88
1.25	105	100	97	104	99	96	102	98	96	92
1.50	107	103	100	106	102	99	104	101	98	94
2.00	110	106	103	108	105	102	106	103	100	95
2.50	111	108	105	109	106	104	106	104	102	96
3.00	112	109	107	111	108	106	107	105	104	97
4.00	114	112	110	112	110	108	109	107	106	99
5.00	116	113	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

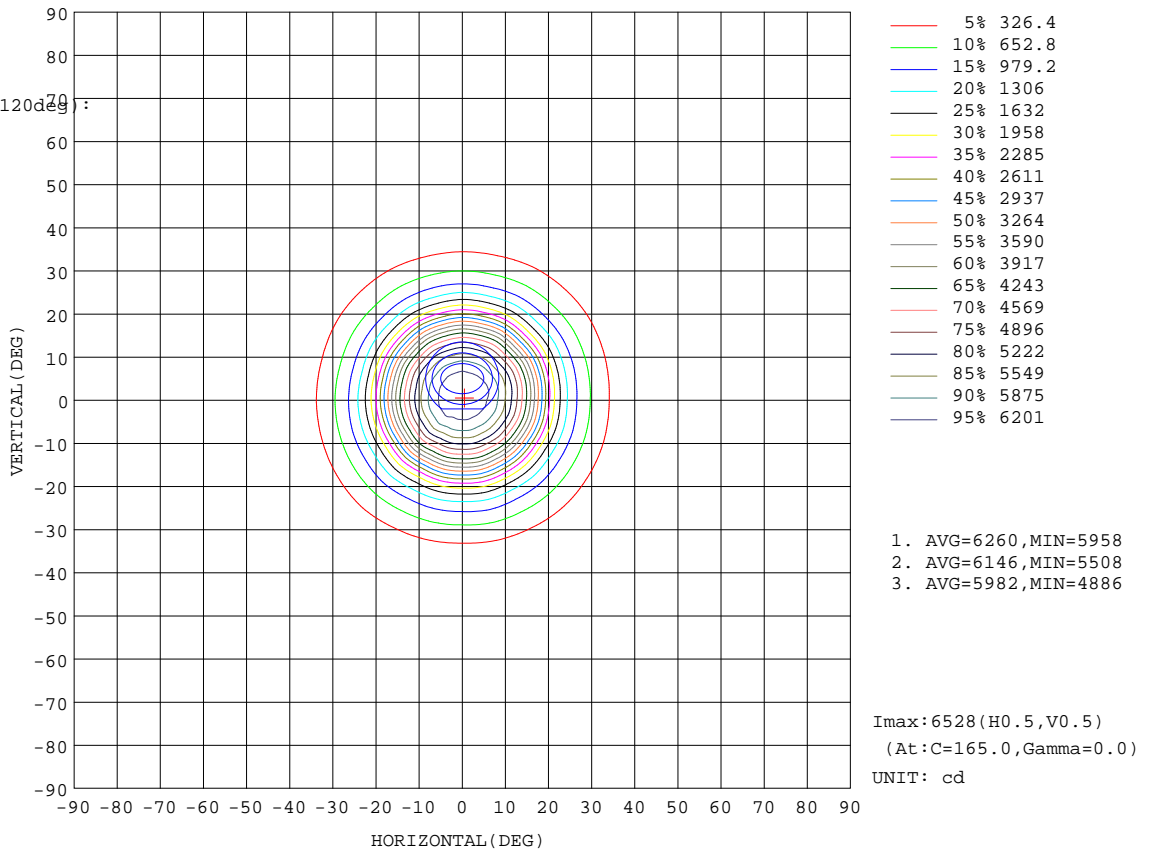
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Conical surface Flux(90deg):

2452.9 lm
%lum = 98.8%
%lamp = 98.8%

Conical surface Flux(120deg):

2479.6 lm
%lum = 99.8%
%lamp = 99.8%



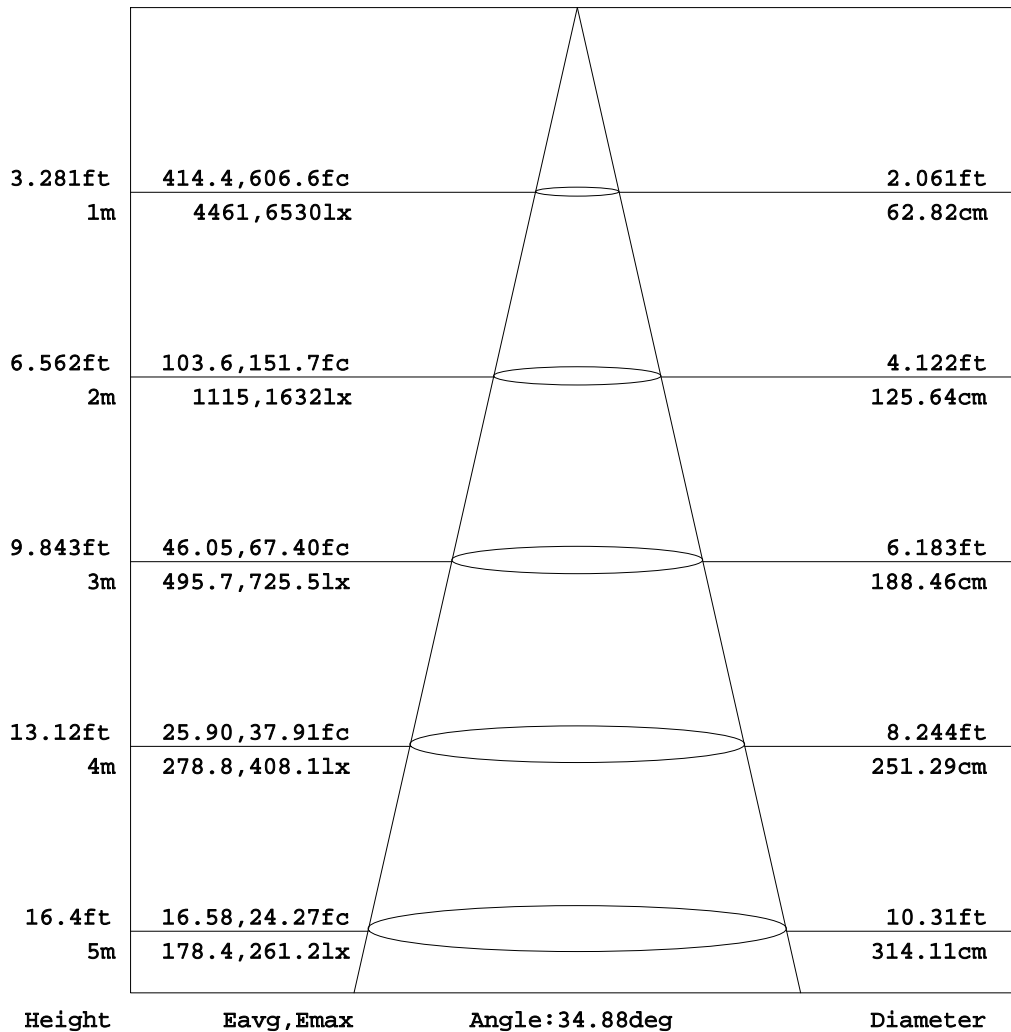
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AAI Figure

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Flux out:1480 lm



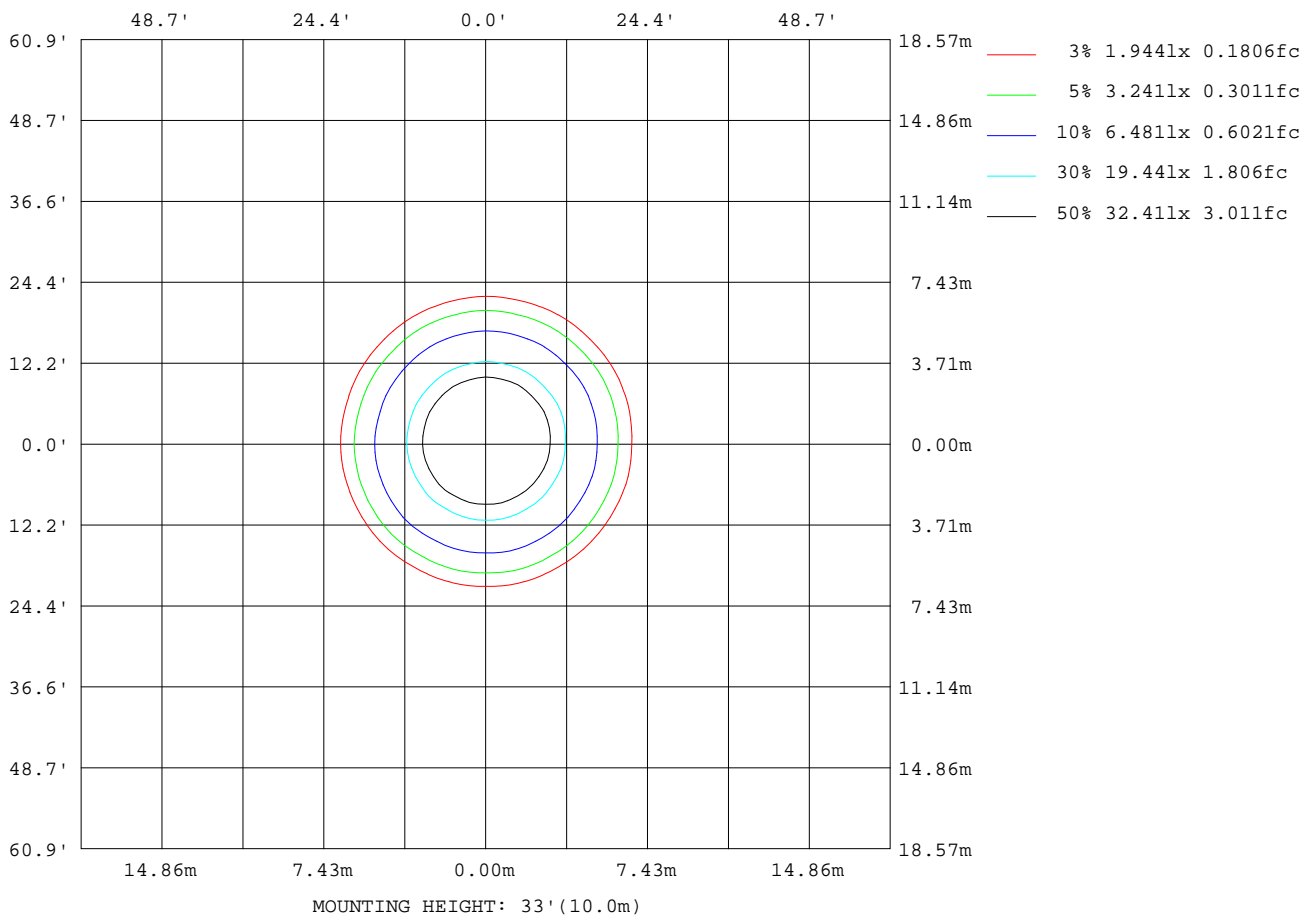
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

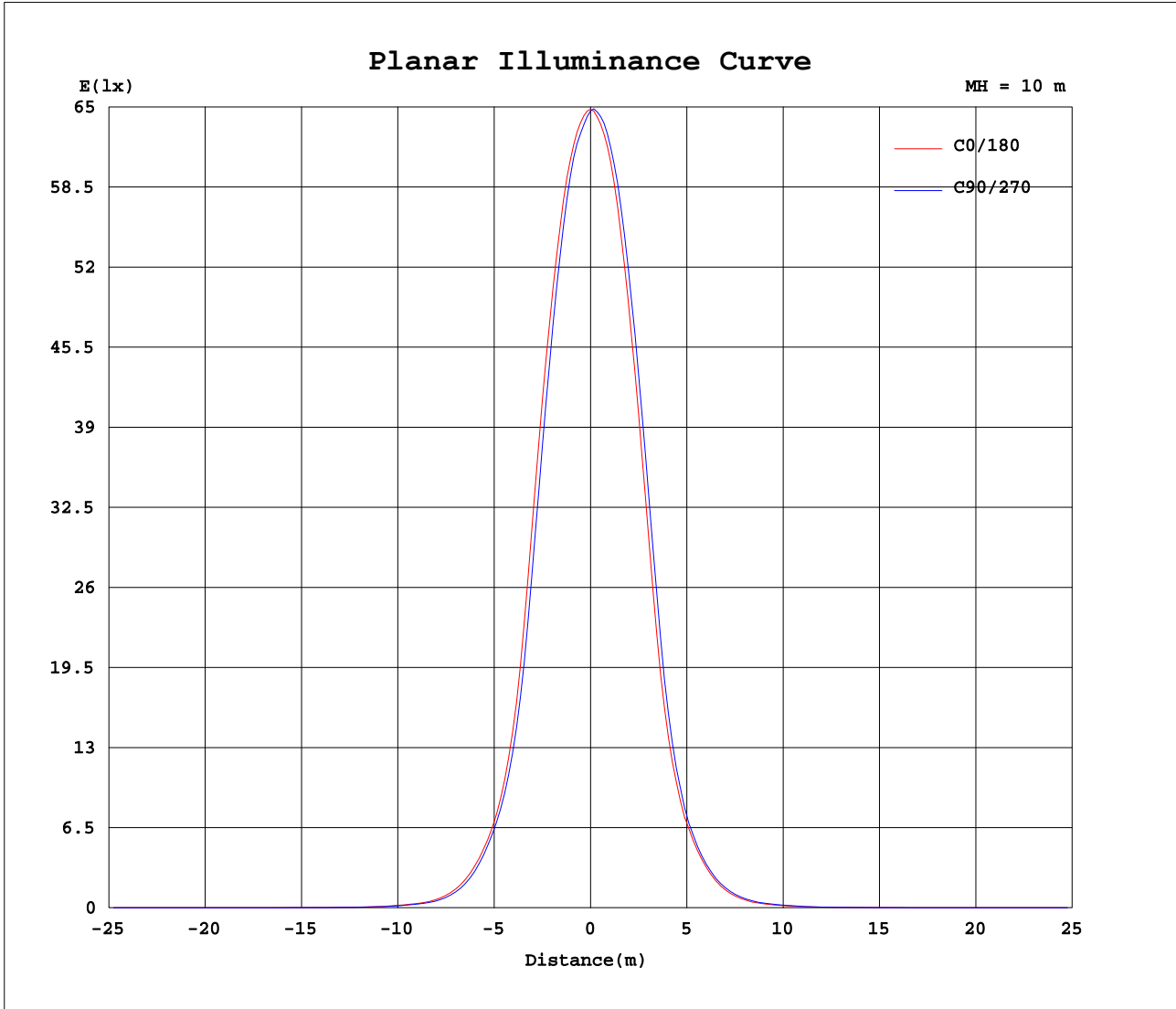
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Planar Illuminance Curve



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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	6481	6483	6477	6470	6466	6471	6468	6473	6471	6527
3.0	6396	6383	6356	6340	6325	6321	6307	6311	6305	6386
6.0	6168	6156	6109	6081	6048	6032	6032	6044	6037	6127
9.0	5728	5703	5616	5578	5520	5527	5485	5515	5489	5608
12.0	5073	5036	4919	4866	4767	4773	4723	4753	4725	4875
15.0	4201	4139	3998	3937	3824	3838	3769	3808	3776	3927
18.0	3109	3059	2917	2872	2769	2780	2701	2732	2697	2832
21.0	2052	2025	1929	1912	1846	1857	1801	1821	1797	1897
24.0	1366	1365	1291	1297	1245	1258	1223	1235	1225	1297
27.0	926.2	924.6	881.5	882.1	871.2	867.5	847.2	863.5	850.3	893.8
30.0	622.0	617.7	591.2	584.8	569.8	571.5	556.7	560.5	560.3	584.3
33.0	390.5	386.3	364.9	356.4	343.1	346.6	334.6	340.3	336.8	354.3
36.0	231.9	230.2	214.3	209.1	202.0	202.0	195.2	199.7	196.8	208.9
39.0	135.6	134.9	123.9	118.9	114.6	115.3	112.1	114.3	113.5	119.7
42.0	86.16	84.06	79.19	75.80	73.88	74.41	73.28	74.12	74.12	79.24
45.0	57.76	55.22	51.10	48.53	46.69	47.12	46.16	46.92	45.94	50.32
48.0	34.98	34.05	31.85	30.77	29.55	29.41	28.89	28.97	27.88	30.57
51.0	22.46	22.39	21.18	20.17	19.10	18.41	18.47	18.24	17.58	18.87
54.0	14.99	15.24	14.21	13.27	12.31	11.71	11.58	11.67	11.36	11.88
57.0	10.32	10.67	9.611	8.715	8.227	7.813	7.636	7.787	7.672	7.892
60.0	7.140	7.448	6.625	6.002	5.723	5.476	5.270	5.387	5.318	5.509
63.0	4.709	5.193	4.518	4.186	4.021	3.804	3.675	3.782	3.708	3.817
66.0	2.969	3.236	2.925	2.733	2.568	2.406	2.284	2.425	2.343	2.397
69.0	1.230	1.216	1.159	1.036	0.8289	0.7972	0.8315	0.8889	0.8602	0.8737
72.0	0.5106	0.5131	0.4912	0.5024	0.5084	0.5199	0.5500	0.5680	0.5675	0.5789
75.0	0.3590	0.3496	0.3656	0.3605	0.3722	0.3780	0.4159	0.4239	0.4226	0.4260
78.0	0.2605	0.2447	0.2627	0.2556	0.2736	0.2687	0.3065	0.3080	0.3108	0.3015
81.0	0.1991	0.1770	0.1969	0.1770	0.2058	0.1966	0.2299	0.2228	0.2255	0.2162
84.0	0.1554	0.1334	0.1510	0.1310	0.1598	0.1399	0.1751	0.1616	0.1664	0.1507
87.0	0.1312	0.1137	0.1269	0.1093	0.1335	0.1159	0.1357	0.1290	0.1291	0.1115
90.0	0.1137	0.1137	0.1203	0.1093	0.1224	0.1224	0.1224	0.1290	0.1159	0.1137
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	6526	6530	6481	6483	6477	6470	6466	6471	6468	6473
3.0	6381	6403	6386	6401	6420	6416	6432	6435	6449	6451
6.0	6113	6148	6150	6162	6196	6210	6248	6246	6270	6248
9.0	5585	5643	5667	5678	5752	5787	5856	5858	5898	5883
12.0	4849	4918	4968	4996	5098	5131	5222	5224	5277	5265
15.0	3896	3989	4062	4085	4202	4246	4365	4363	4442	4430
18.0	2804	2899	2989	3014	3131	3170	3304	3297	3387	3366
21.0	1874	1935	1997	1996	2084	2105	2203	2199	2278	2261
24.0	1271	1313	1342	1317	1381	1374	1453	1437	1491	1477
27.0	886.3	892.8	914.7	892.0	906.2	904.5	949.6	963.2	975.7	965.2
30.0	589.4	595.7	608.0	594.6	607.7	606.1	632.6	636.9	651.2	643.3
33.0	354.0	363.4	375.1	369.1	380.9	381.5	397.0	398.7	409.1	405.7
36.0	206.2	211.5	221.4	219.6	228.6	229.9	239.7	239.8	250.1	248.5
39.0	118.3	123.7	129.4	128.1	136.7	136.8	144.3	143.7	150.1	150.0
42.0	77.74	77.55	80.13	81.90	85.20	87.75	90.69	90.83	93.47	94.02
45.0	49.48	50.29	51.37	52.09	55.09	58.14	60.44	60.73	62.80	63.26
48.0	30.71	31.77	31.65	31.91	33.53	35.04	36.66	36.15	37.15	37.35
51.0	19.93	20.85	20.32	20.39	21.50	22.17	22.95	22.56	22.84	23.08
54.0	12.97	13.65	13.11	13.02	13.73	14.03	14.41	14.18	14.85	14.62
57.0	8.623	9.029	8.552	8.607	8.812	9.098	9.081	9.227	9.733	9.274
60.0	5.953	6.120	5.804	5.950	5.972	6.119	6.094	6.222	6.412	6.041
63.0	4.185	4.215	4.041	4.163	4.178	4.212	4.198	4.280	4.362	4.079
66.0	2.676	2.733	2.619	2.700	2.735	2.776	2.807	2.888	2.941	2.721
69.0	0.9123	1.063	1.066	1.076	1.173	1.264	1.466	1.493	1.614	1.469
72.0	0.5873	0.6007	0.6417	0.6371	0.6547	0.6416	0.6569	0.6479	0.6373	0.6174
75.0	0.4379	0.4457	0.4499	0.4552	0.4456	0.4509	0.4456	0.4508	0.4368	0.4311
78.0	0.3218	0.3168	0.3167	0.3305	0.3145	0.3283	0.3145	0.3283	0.3057	0.3108
81.0	0.2386	0.2206	0.2161	0.2364	0.2139	0.2320	0.2183	0.2364	0.2162	0.2254
84.0	0.1752	0.1572	0.1419	0.1598	0.1397	0.1642	0.1419	0.1664	0.1463	0.1642
87.0	0.1292	0.1093	0.0830	0.1073	0.0851	0.1117	0.0873	0.1139	0.0960	0.1138
90.0	0.1093	0.1093	0.0700	0.0722	0.0678	0.0700	0.0700	0.0700	0.0700	0.0743
G/C	300.0	315.0	330.0	345.0						
0.0	6471	6527	6526	6530						
3.0	6450	6476	6478	6464						
6.0	6262	6268	6271	6244						
9.0	5895	5863	5865	5829						
12.0	5293	5229	5258	5190						
15.0	4489	4392	4426	4338						
18.0	3436	3323	3367	3262						
21.0	2312	2224	2255	2168						

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Meng Yongjian

Test Date: 2017-08-07

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	1515	1466	1486	1430
27.0	1006	981.1	984.7	961.3
30.0	665.5	655.6	665.2	647.0
33.0	419.0	414.0	419.8	411.0
36.0	257.0	252.1	254.8	245.7
39.0	155.1	151.4	151.5	144.8
42.0	95.82	95.95	94.41	91.51
45.0	63.93	64.70	64.22	62.84
48.0	38.54	39.92	39.60	38.97
51.0	23.68	24.65	24.37	24.66
54.0	14.87	14.88	15.01	15.68
57.0	9.232	9.283	9.464	10.02
60.0	5.928	6.139	6.222	6.715
63.0	3.984	4.260	4.242	4.551
66.0	2.633	2.848	2.838	2.978
69.0	1.402	1.338	1.305	1.311
72.0	0.5937	0.5648	0.5543	0.5410
75.0	0.4106	0.3961	0.3734	0.3742
78.0	0.2883	0.2867	0.2620	0.2692
81.0	0.2052	0.2123	0.1878	0.1991
84.0	0.1375	0.1576	0.1309	0.1445
87.0	0.0895	0.1116	0.0895	0.1073
90.0	0.0700	0.0743	0.0722	0.0787

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng Yongjian
 Test Date: 2017-08-07

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: