

LED Tracklight PURE M-28W-830-45



Light Output Ratio:	100.0%	
Luminaire Power:	28.03 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.75	fine grid method.

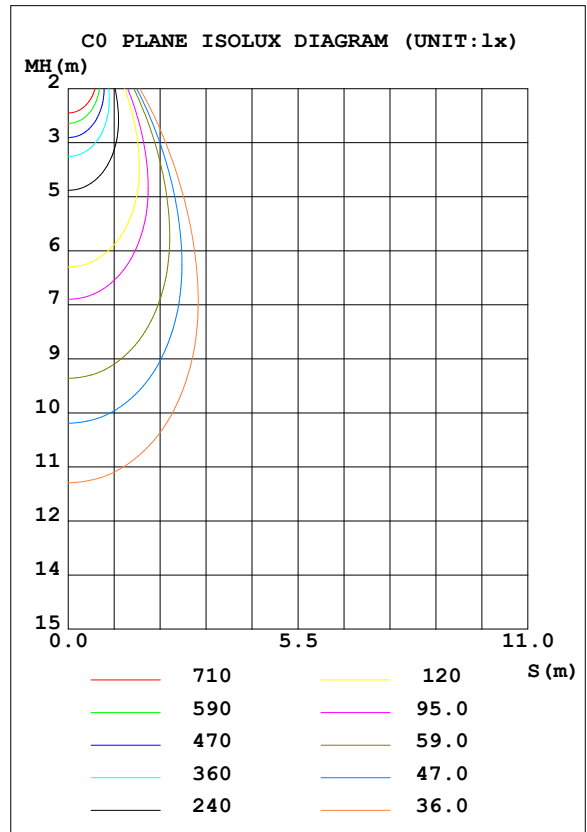
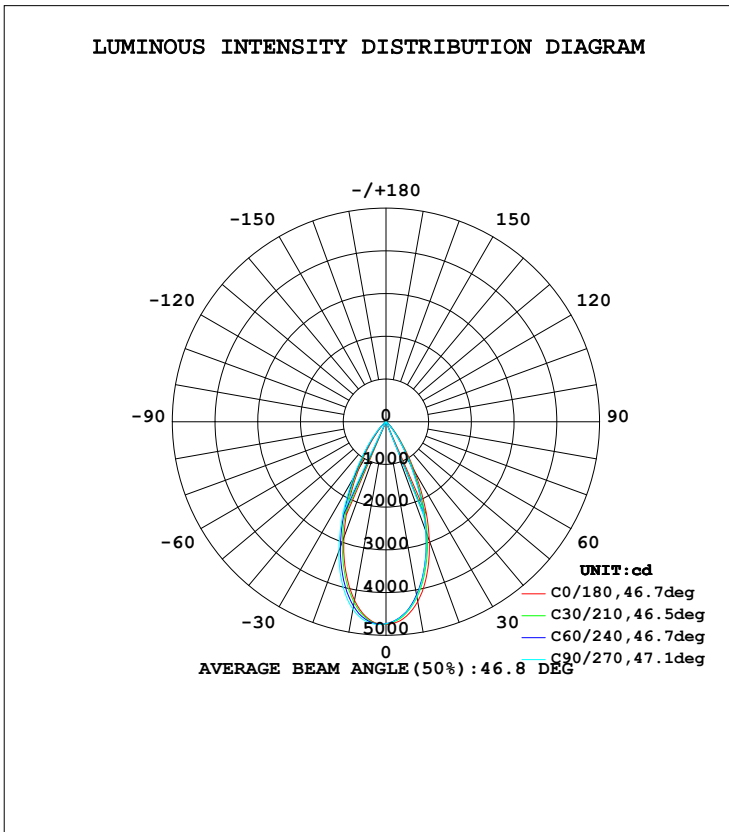
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-05-18

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:0.1318A P:28.03W PF:0.9638 Lamp Flux:3045.72x1 lm		
NAME: PURE M-28W-830-45	TYPE:Tracklight	SERIAL No.:
SPEC.:3000K	DIM.: φ90mm*H220mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 108.66 lm/W			
MODEL	CITIZEN-3000K	I _{max} (cd)	4750	S/MH (C0/180)	0.73
NOMINAL POWER (W)	28	LOR (%)	100.0	S/MH (C90/270)	0.78
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	3045.7	η UP, DN (C0-180)	0.0, 46.5
NOMINAL FLUX (lm)	3045.72	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 53.5
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	0.75



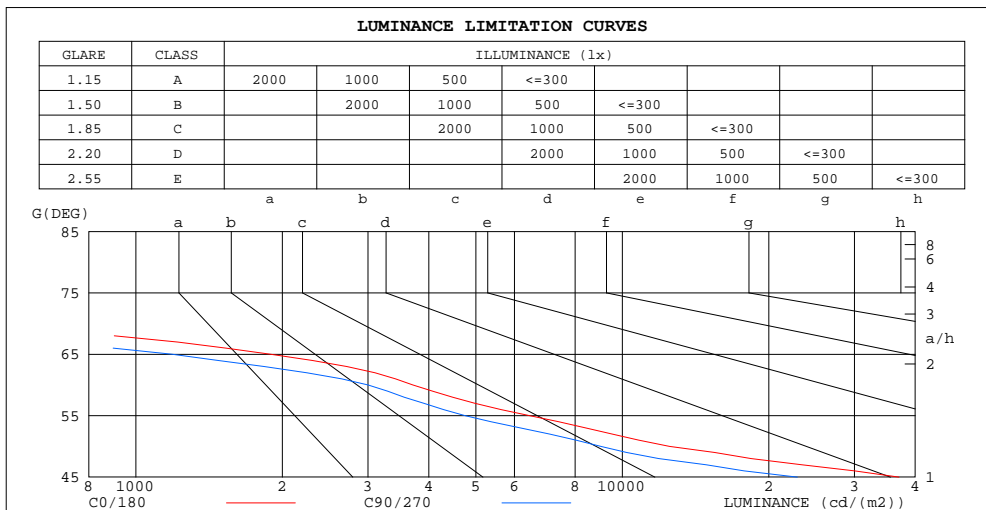
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	4275	4146	4146	4195	4248	4330	4461	4451	0- 10	430.9	430.9	14.1,14.1
20	2974	2785	2728	2806	2886	3038	3230	3215	10- 20	1021	1452	47.7,47.7
30	1341	1181	1119	1180	1279	1438	1571	1537	20- 30	961.0	2413	79.2,79.2
40	362.8	309.4	271.1	290.3	335.4	416.1	466.3	450.5	30- 40	477.9	2891	94.9,94.9
50	51.10	46.03	36.94	35.33	41.21	47.42	51.47	53.02	40- 50	129.1	3020	99.1,99.1
60	11.79	10.81	9.541	9.371	10.50	11.57	12.39	12.71	50- 60	20.68	3040	99.8,99.8
70	0.8081	0.6134	0.5192	0.4609	0.4540	0.5581	0.8752	1.055	60- 70	4.837	3045	100,100
80	0.2604	0.2382	0.2537	0.2077	0.1660	0.1816	0.1770	0.2210	70- 80	0.3576	3046	100,100
90	0.1640	0.1640	0.1705	0.1727	0.0984	0.0962	0.0984	0.1028	80- 90	0.1765	3046	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	359	344
80	236	230
75	225	205
70	372	239
65	1889	1186
60	3710	3001
55	6447	4753
50	12503	9037
45	37027	22898

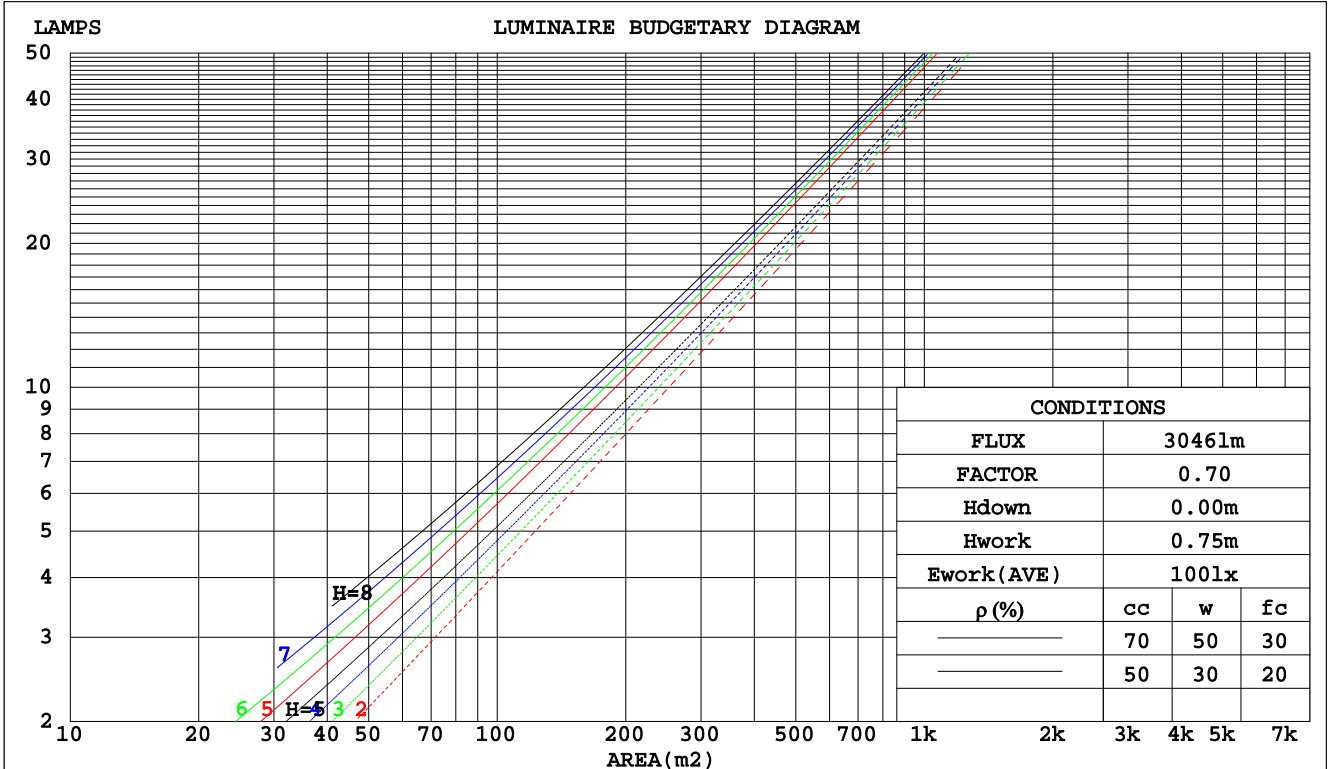
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γ Range: 0 - 90DEG
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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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NAME: PURE M-28W-830-45	TYPE:Tracklight	SERIAL No.:
SPEC.:3000K	DIM.: φ90mm*H220mm	
MFR.: NEKO LIGHTING AG		

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															
	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	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96	.94
2.0	1.04	1.00	.97	1.03	.99	.96	.99	.97	.94	.96	.94	.92	.94	.92	.90	.89
3.0	.98	.93	.90	.96	.92	.89	.94	.90	.87	.92	.89	.86	.89	.87	.85	.83
4.0	.92	.87	.83	.91	.86	.83	.89	.85	.82	.87	.83	.81	.85	.82	.80	.78
5.0	.87	.81	.77	.86	.81	.77	.84	.80	.76	.83	.79	.76	.81	.78	.75	.74
6.0	.82	.77	.73	.81	.76	.72	.80	.75	.72	.78	.74	.71	.77	.74	.71	.70
7.0	.78	.72	.68	.77	.72	.68	.76	.71	.68	.75	.70	.67	.74	.70	.67	.66
8.0	.74	.68	.64	.73	.68	.64	.72	.67	.64	.71	.67	.64	.70	.66	.63	.62
9.0	.70	.65	.61	.70	.64	.61	.69	.64	.61	.68	.63	.60	.67	.63	.60	.59
10.0	.67	.61	.58	.66	.61	.58	.66	.61	.58	.65	.60	.57	.64	.60	.57	.56



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WEC AND CCEC

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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	.167	.095	.030	.161	.092	.029	.148	.085	.027	.137	.079	.025	.126	.073	.024	
2.0	.159	.087	.027	.154	.085	.026	.143	.080	.025	.134	.075	.023	.125	.071	.022	
3.0	.152	.081	.024	.147	.079	.024	.138	.075	.023	.130	.071	.022	.122	.068	.021	
4.0	.144	.075	.022	.140	.073	.022	.133	.070	.021	.125	.067	.020	.119	.065	.020	
5.0	.137	.070	.020	.134	.069	.020	.127	.066	.020	.121	.064	.019	.115	.062	.019	
6.0	.131	.066	.019	.128	.065	.019	.122	.063	.018	.117	.061	.018	.112	.059	.017	
7.0	.126	.062	.018	.123	.061	.017	.118	.059	.017	.113	.058	.017	.108	.056	.017	
8.0	.120	.059	.017	.118	.058	.016	.113	.057	.016	.109	.055	.016	.105	.054	.016	
9.0	.115	.056	.016	.113	.055	.015	.109	.054	.015	.105	.053	.015	.102	.052	.015	
10.0	.111	.053	.015	.109	.053	.015	.105	.052	.015	.102	.050	.014	.098	.049	.014	

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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	.170	.157	.146	.146	.135	.125	.100	.093	.087	.057	.054	.050	.018	.017	.016	
2.0	.155	.133	.114	.132	.114	.099	.091	.079	.069	.052	.046	.040	.017	.015	.013	
3.0	.142	.113	.091	.121	.098	.079	.083	.068	.055	.048	.040	.033	.015	.013	.011	
4.0	.131	.099	.074	.112	.085	.064	.077	.059	.045	.045	.035	.027	.014	.011	.009	
5.0	.122	.087	.061	.105	.075	.053	.072	.053	.037	.042	.031	.022	.013	.010	.007	
6.0	.114	.077	.051	.098	.067	.044	.068	.047	.031	.039	.028	.019	.013	.009	.006	
7.0	.108	.070	.043	.093	.060	.038	.064	.042	.027	.037	.025	.016	.012	.008	.005	
8.0	.102	.063	.037	.088	.055	.032	.061	.039	.023	.035	.023	.014	.011	.007	.005	
9.0	.097	.058	.032	.083	.051	.028	.058	.036	.020	.034	.021	.012	.011	.007	.004	
10.0	.092	.054	.028	.080	.047	.025	.055	.033	.017	.032	.019	.010	.010	.006	.003	

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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	19.6	20.5	19.9	20.7	20.8	18.5	19.4	18.7	19.5	19.7
3H	19.5	20.3	19.7	20.5	20.7	18.3	19.1	18.6	19.3	19.5
4H	19.4	20.2	19.7	20.4	20.6	18.3	19.0	18.5	19.2	19.5
6H	19.3	20.0	19.6	20.3	20.5	18.2	18.9	18.5	19.1	19.4
8H	19.3	19.9	19.6	20.2	20.5	18.1	18.8	18.4	19.1	19.3
12H	19.2	19.9	19.5	20.1	20.4	18.1	18.7	18.4	19.0	19.3
4H 2H	19.4	20.2	19.7	20.4	20.6	18.3	19.0	18.5	19.2	19.5
3H	19.2	19.9	19.5	20.1	20.4	18.1	18.7	18.4	19.0	19.3
4H	19.1	19.7	19.5	20.0	20.3	18.0	18.6	18.3	18.9	19.2
6H	19.0	19.5	19.4	19.9	20.2	17.9	18.4	18.3	18.8	19.1
8H	19.0	19.5	19.4	19.8	20.2	17.8	18.3	18.2	18.7	19.0
12H	18.9	19.4	19.3	19.7	20.1	17.8	18.2	18.2	18.6	19.0
8H 4H	19.0	19.5	19.4	19.8	20.2	17.8	18.3	18.2	18.7	19.0
6H	18.9	19.3	19.3	19.7	20.1	17.7	18.1	18.2	18.5	18.9
8H	18.8	19.2	19.3	19.6	20.0	17.7	18.0	18.1	18.5	18.9
12H	18.8	19.1	19.2	19.5	20.0	17.6	17.9	18.1	18.4	18.8
12H 4H	18.9	19.4	19.3	19.7	20.1	17.8	18.2	18.2	18.6	19.0
6H	18.8	19.2	19.3	19.6	20.0	17.7	18.0	18.1	18.5	18.9
8H	18.8	19.1	19.2	19.5	20.0	17.6	17.9	18.1	18.4	18.8
Variations with the observer position at spacings:										
S = 1.0H	+ 3.5 / -13.3					+ 3.3 / -13.1				
1.5H	+ 5.7 / -10.9					+ 5.6 / -10.1				
2.0H	+ 7.3 / - 9.8					+ 6.4 / - 8.6				

CIE Pub.117 Corrected 3046 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.9)

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 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	78	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

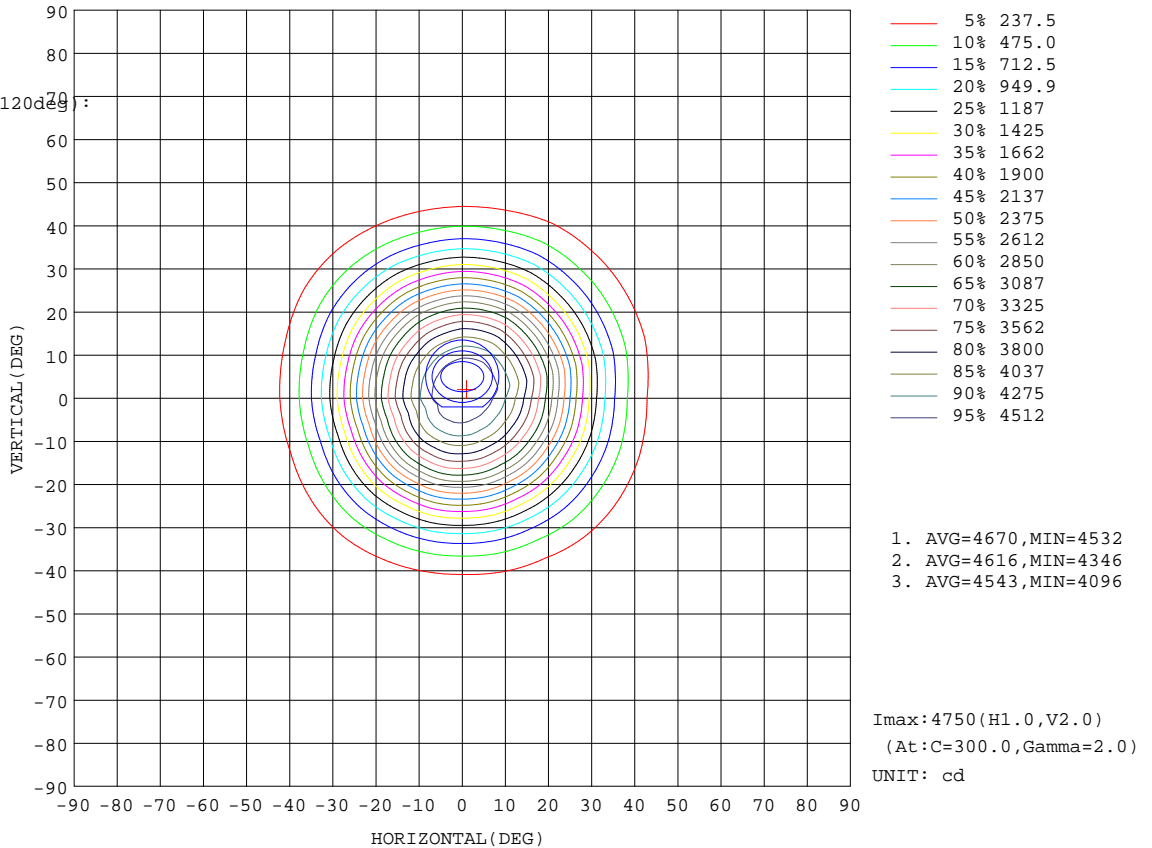
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Conical surface Flux(90deg):

2984.2 lm
%lum = 98.0%
%lamp = 98.0%

Conical surface Flux(120deg):

3040.4 lm
%lum = 99.8%
%lamp = 99.8%



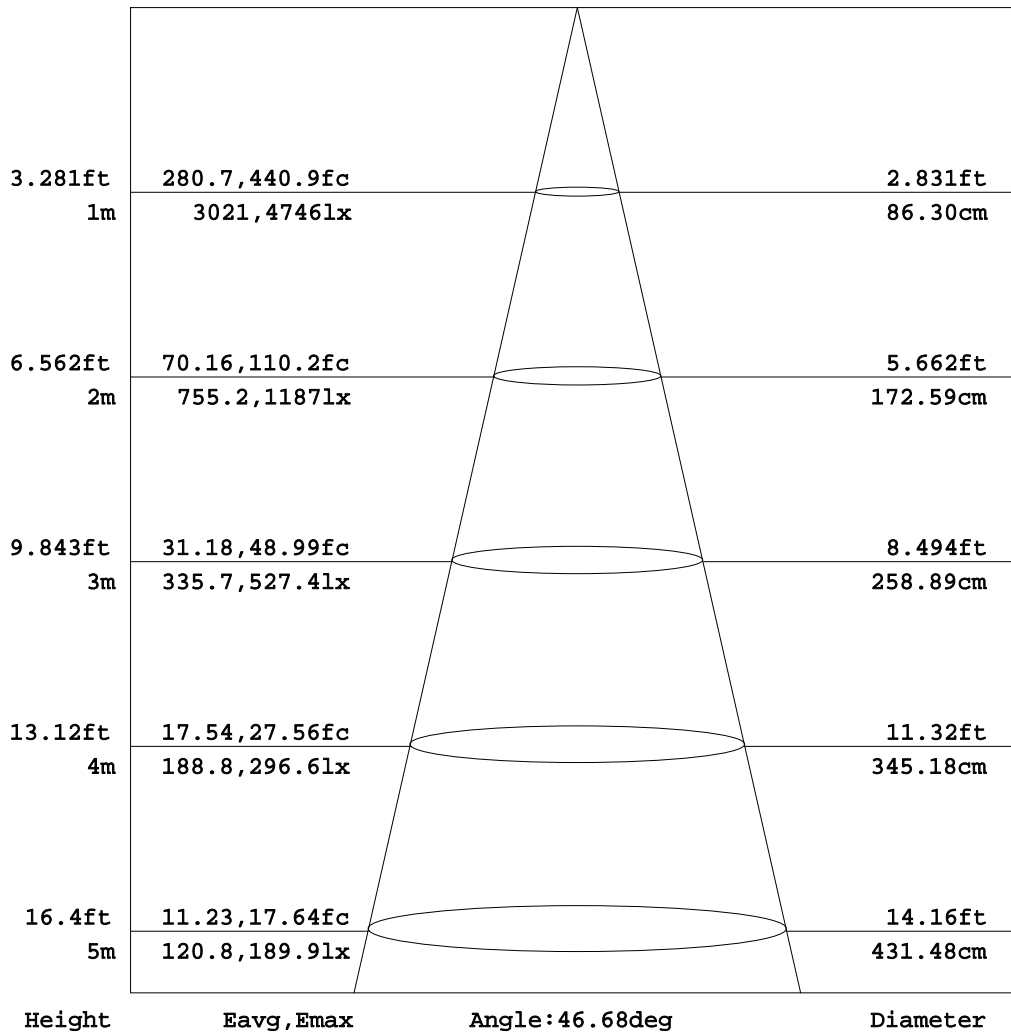
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AAI Figure

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Flux out:1881 lm



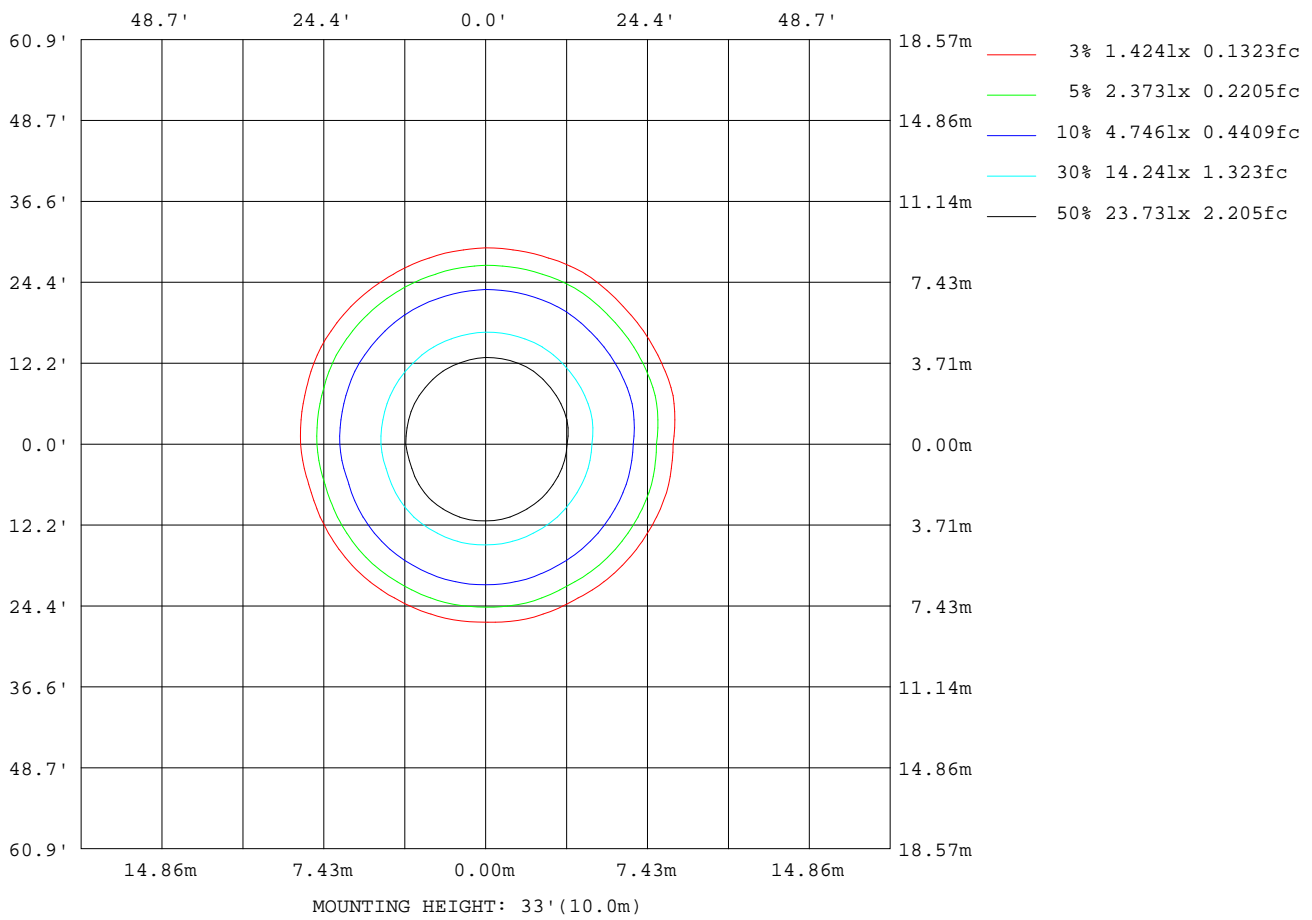
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

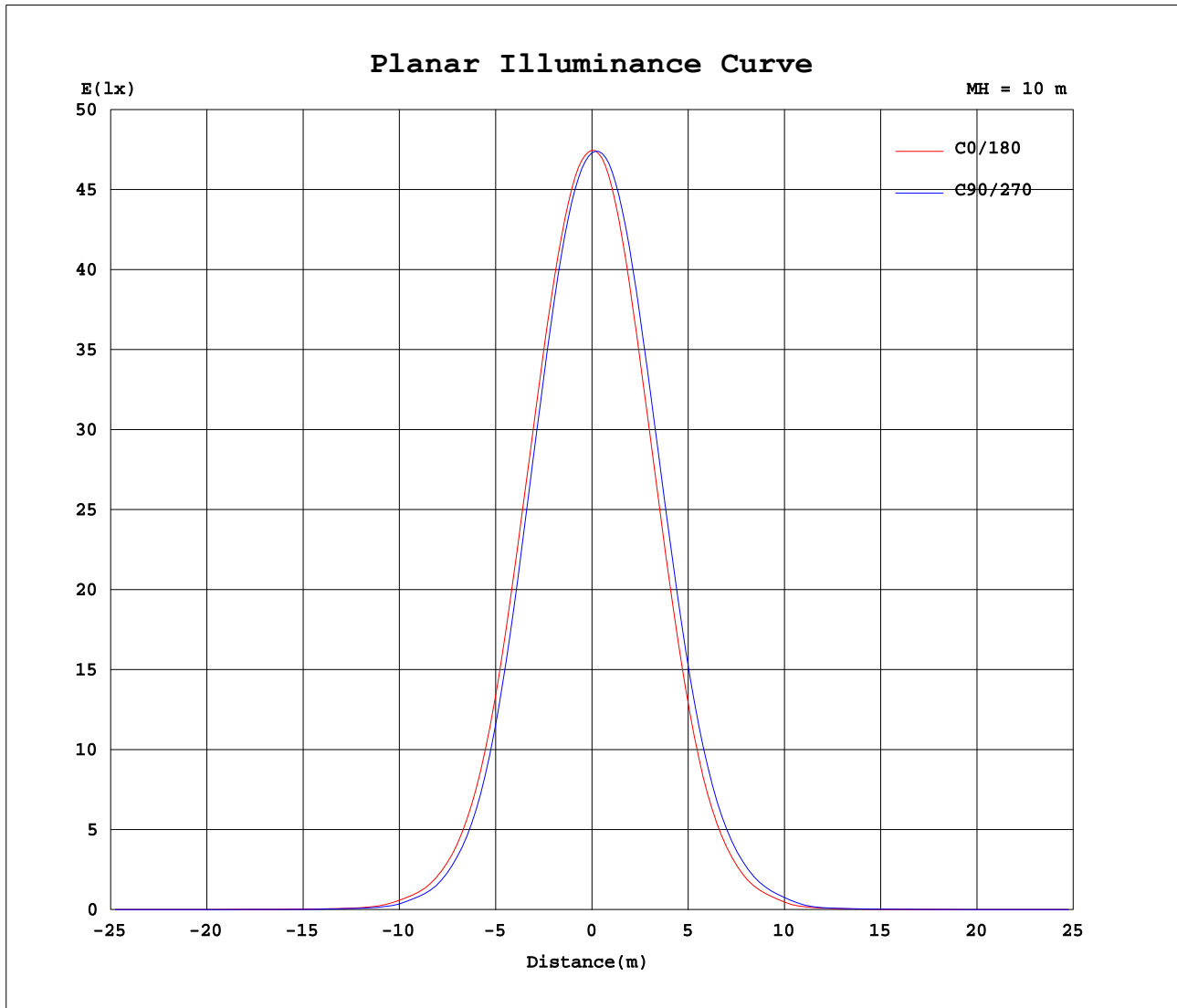
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Planar Illuminance Curve



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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	4746	4743	4737	4732	4727	4726	4730	4730	4735	4738
3.0	4702	4686	4663	4653	4643	4644	4650	4656	4662	4678
6.0	4579	4546	4509	4496	4479	4486	4493	4505	4509	4529
9.0	4363	4319	4267	4249	4222	4238	4248	4264	4273	4296
12.0	4073	4022	3954	3927	3890	3903	3913	3938	3946	3975
15.0	3703	3648	3567	3533	3497	3504	3509	3544	3547	3583
18.0	3278	3226	3142	3100	3050	3060	3061	3096	3100	3136
21.0	2809	2750	2658	2618	2561	2558	2551	2587	2587	2632
24.0	2303	2238	2148	2106	2050	2044	2037	2065	2067	2117
27.0	1800	1747	1663	1621	1565	1561	1548	1572	1573	1618
30.0	1341	1296	1223	1181	1138	1134	1119	1140	1142	1180
33.0	957.0	919.6	865.4	829.1	791.4	787.0	778.6	789.1	796.2	821.2
36.0	649.3	636.8	598.3	567.0	524.9	530.4	518.8	526.5	528.8	550.4
39.0	424.6	422.4	389.2	365.7	331.4	333.8	318.5	323.3	325.2	340.2
42.0	268.1	266.1	246.4	229.7	208.8	209.6	199.7	201.8	204.6	213.3
45.0	166.5	167.1	150.1	137.8	118.6	114.2	103.0	100.9	97.16	101.7
48.0	78.23	77.56	70.52	66.11	61.10	55.12	50.55	48.99	47.05	48.22
51.0	43.28	43.28	41.23	39.73	36.74	34.25	32.16	31.28	30.23	30.71
54.0	27.66	27.62	26.14	25.12	22.98	21.49	20.08	19.73	19.05	19.33
57.0	17.25	17.00	16.12	15.63	14.68	14.13	13.54	13.43	13.13	13.31
60.0	11.79	11.57	11.07	10.81	10.28	9.987	9.541	9.470	9.213	9.371
63.0	7.836	7.601	7.005	6.681	6.044	5.768	5.302	5.225	4.964	5.129
66.0	3.961	3.780	3.383	3.159	2.780	2.619	2.323	2.274	2.104	2.191
69.0	1.360	1.253	1.019	0.9179	0.7503	0.6982	0.6219	0.5873	0.5622	0.5524
72.0	0.4928	0.4696	0.4709	0.4412	0.4402	0.4064	0.4160	0.3889	0.3984	0.3671
75.0	0.3699	0.3475	0.3655	0.3387	0.3502	0.3213	0.3370	0.3103	0.3217	0.2863
78.0	0.2998	0.2775	0.2997	0.2710	0.2888	0.2666	0.2779	0.2557	0.2691	0.2360
81.0	0.2472	0.2273	0.2450	0.2251	0.2450	0.2164	0.2363	0.2120	0.2254	0.2010
84.0	0.2122	0.1879	0.2101	0.1836	0.2057	0.1836	0.2034	0.1770	0.1947	0.1683
87.0	0.1816	0.1640	0.1816	0.1640	0.1794	0.1662	0.1816	0.1662	0.1750	0.1640
90.0	0.1640	0.1618	0.1640	0.1640	0.1662	0.1662	0.1705	0.1749	0.1684	0.1727
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	4738	4741	4746	4743	4737	4732	4727	4726	4730	4730
3.0	4681	4669	4716	4718	4723	4725	4730	4736	4746	4748
6.0	4531	4505	4582	4588	4609	4621	4646	4663	4688	4690
9.0	4289	4256	4345	4351	4391	4420	4464	4495	4532	4541
12.0	3965	3919	4020	4032	4084	4122	4187	4227	4281	4298
15.0	3571	3529	3632	3650	3717	3760	3837	3872	3940	3956
18.0	3127	3091	3205	3223	3292	3339	3425	3468	3536	3552
21.0	2626	2607	2722	2757	2832	2880	2964	3006	3070	3087
24.0	2113	2107	2225	2261	2342	2391	2476	2511	2569	2583
27.0	1621	1620	1729	1768	1852	1899	1974	2006	2054	2067
30.0	1182	1183	1279	1319	1401	1438	1503	1527	1571	1577
33.0	829.0	828.3	910.4	941.9	1010	1042	1096	1112	1148	1151
36.0	556.1	558.0	619.4	643.7	703.3	728.1	762.0	776.1	807.1	807.7
39.0	343.6	347.4	392.0	417.0	463.1	483.8	500.4	517.7	542.2	545.1
42.0	215.4	216.4	248.4	266.0	299.5	312.0	318.4	332.0	345.2	346.5
45.0	102.7	115.7	135.5	145.0	174.0	182.8	193.7	203.6	215.8	217.6
48.0	48.92	53.60	58.41	65.57	69.36	72.92	78.52	81.67	88.70	89.68
51.0	31.07	33.54	35.57	37.23	39.80	40.38	41.88	41.24	42.38	42.31
54.0	19.43	21.09	22.09	23.02	24.72	25.26	26.47	26.21	27.19	27.20
57.0	13.39	14.20	14.76	15.25	16.00	16.29	16.94	16.96	17.53	17.65
60.0	9.417	10.05	10.50	10.86	11.41	11.57	11.96	12.01	12.39	12.44
63.0	5.115	5.755	6.132	6.490	7.105	7.350	7.870	8.047	8.493	8.555
66.0	2.146	2.512	2.743	2.965	3.372	3.551	3.884	3.994	4.260	4.316
69.0	0.5425	0.6066	0.6364	0.6838	0.8318	0.9262	1.164	1.262	1.540	1.625
72.0	0.3765	0.3561	0.3364	0.3548	0.3428	0.3722	0.3689	0.4075	0.4126	0.4473
75.0	0.3020	0.2797	0.2469	0.2670	0.2468	0.2714	0.2556	0.2889	0.2796	0.3129
78.0	0.2451	0.2229	0.1901	0.2122	0.1835	0.2100	0.1922	0.2232	0.2075	0.2407
81.0	0.2122	0.1901	0.1507	0.1706	0.1442	0.1728	0.1507	0.1772	0.1638	0.1903
84.0	0.1859	0.1683	0.1158	0.1400	0.1136	0.1422	0.1223	0.1466	0.1310	0.1553
87.0	0.1684	0.1640	0.0984	0.1116	0.0940	0.1159	0.0962	0.1203	0.1049	0.1225
90.0	0.1640	0.1727	0.0984	0.0984	0.0940	0.0962	0.0940	0.1028	0.0984	0.1028
G/C	300.0	315.0	330.0	345.0						
0.0	4735	4738	4738	4741						
3.0	4750	4742	4733	4739						
6.0	4694	4676	4654	4655						
9.0	4554	4524	4496	4484						
12.0	4317	4272	4239	4219						
15.0	3980	3930	3891	3866						
18.0	3577	3519	3480	3449						
21.0	3111	3053	3013	2977						

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Meng Yongjian

Test Date: 2017-05-18

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	2605	2544	2505	2472
27.0	2083	2027	1991	1958
30.0	1592	1537	1514	1475
33.0	1163	1115	1091	1070
36.0	817.7	778.0	761.5	747.0
39.0	555.7	524.5	513.0	502.0
42.0	357.3	330.8	322.5	322.6
45.0	228.0	209.7	205.3	204.3
48.0	95.91	91.58	92.05	88.38
51.0	43.63	43.32	44.70	43.74
54.0	27.96	27.94	28.69	27.93
57.0	18.13	18.11	18.42	17.76
60.0	12.77	12.71	12.80	12.27
63.0	8.854	8.774	8.802	8.343
66.0	4.592	4.522	4.605	4.311
69.0	1.828	1.771	1.824	1.587
72.0	0.4518	0.4848	0.4846	0.4799
75.0	0.3080	0.3392	0.3320	0.3457
78.0	0.2272	0.2582	0.2469	0.2670
81.0	0.1770	0.2035	0.1922	0.2122
84.0	0.1376	0.1641	0.1485	0.1685
87.0	0.1049	0.1313	0.1114	0.1313
90.0	0.0984	0.1028	0.1006	0.1028

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng Yongjian
 Test Date: 2017-05-18

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: