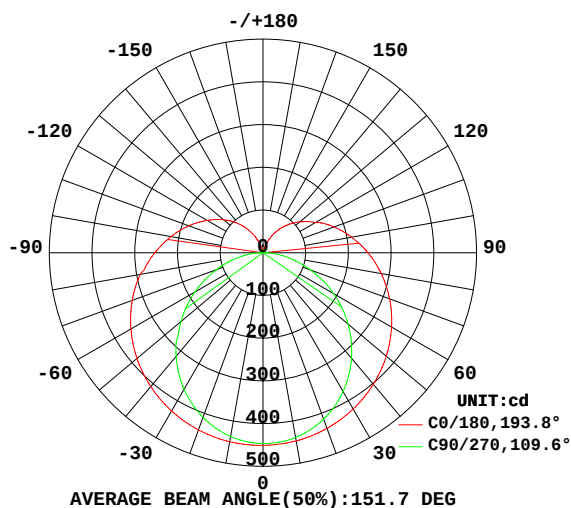


LUMINAIRE PHOTOMETRIC TEST REPORT

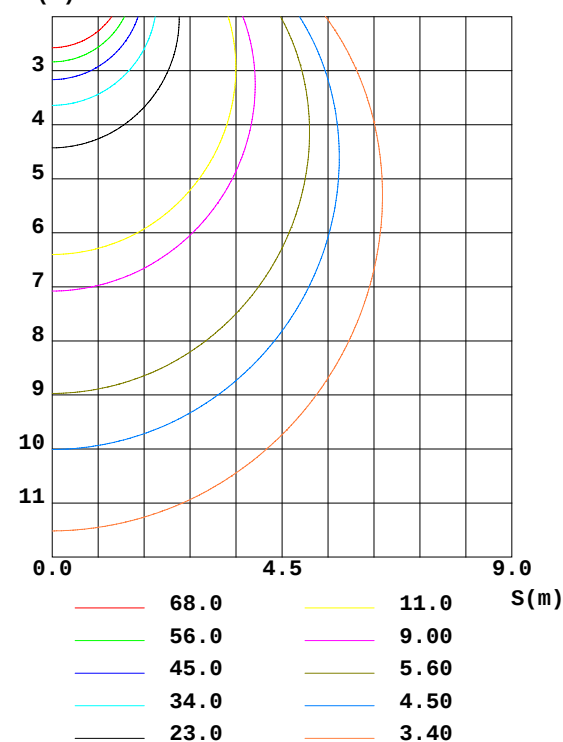
Test:U:24.00V I:1.020A P:24.48W PF:1.000 Lamp Flux:2267.66x1 lm		
NAME:CL-Tube120 3000k-90RA	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 92.63 lm/W			
MODEL		I _{max} (cd)	451.0	S/MH(C0/180)	1.41
NOMINAL POWER(W)	24	LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	2267.7	η UP, DN(C0-180)	10.9, 39.4
NOMINAL FLUX(lm)	2267.66	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	10.7, 39.0
LAMPS INSIDE	1	η up(%)	21.7	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	24	η down(%)	78.3	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-10-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.10m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	447.1	442.8	439.2	441.3	449.2	442.9	436.7	437.9	0- 10	42.44	42.44	1.87,1.87
20	437.6	425.9	414.9	426.4	441.4	425.8	410.3	420.0	10- 20	122.8	165.2	7.29,7.29
30	422.2	398.5	375.0	401.4	427.7	398.9	369.3	392.5	20- 30	190.3	355.6	15.7,15.7
40	401.9	363.4	322.5	368.6	408.8	364.2	316.4	357.6	30- 40	238.7	594.3	26.2,26.2
50	376.7	322.8	260.0	330.2	385.0	324.5	250.7	318.1	40- 50	264.5	858.8	37.9,37.9
60	347.5	279.8	191.0	289.0	357.0	278.0	184.2	272.1	50- 60	267.0	1126	49.6,49.6
70	315.3	237.0	118.2	247.9	325.6	236.7	116.4	231.2	60- 70	250.0	1376	60.7,60.7
80	281.1	197.3	53.80	209.3	292.2	198.3	54.05	193.1	70- 80	219.0	1595	70.3,70.3
90	245.8	162.2	2.062	174.7	253.2	164.4	1.431	159.3	80- 90	181.8	1777	78.3,78.3
100	210.8	130.9	0.8962	142.9	218.6	136.0	1.965	130.9	90-100	148.1	1925	84.9,84.9
110	177.0	107.1	1.316	117.9	184.7	111.9	3.201	107.3	100-110	119.3	2044	90.1,90.1
120	142.4	76.55	1.764	96.01	151.8	91.02	4.144	70.23	110-120	90.71	2135	94.1,94.1
130	112.8	53.53	2.180	74.03	120.6	70.05	4.984	45.66	120-130	63.25	2198	96.9,96.9
140	83.07	33.87	3.348	50.89	88.28	47.97	5.569	27.82	130-140	39.01	2237	98.7,98.7
150	52.20	17.38	4.275	26.64	55.00	24.72	5.876	14.83	140-150	20.06	2257	99.5,99.5
160	20.58	7.048	5.105	7.679	21.17	7.747	5.921	7.497	150-160	7.885	2265	99.9,99.9
170	5.201	6.325	5.757	6.390	5.404	6.526	6.045	6.389	160-170	2.085	2267	100,100
180	2.563	6.045	6.036	6.059	2.567	6.078	6.069	6.050	170-180	0.5540	2268	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

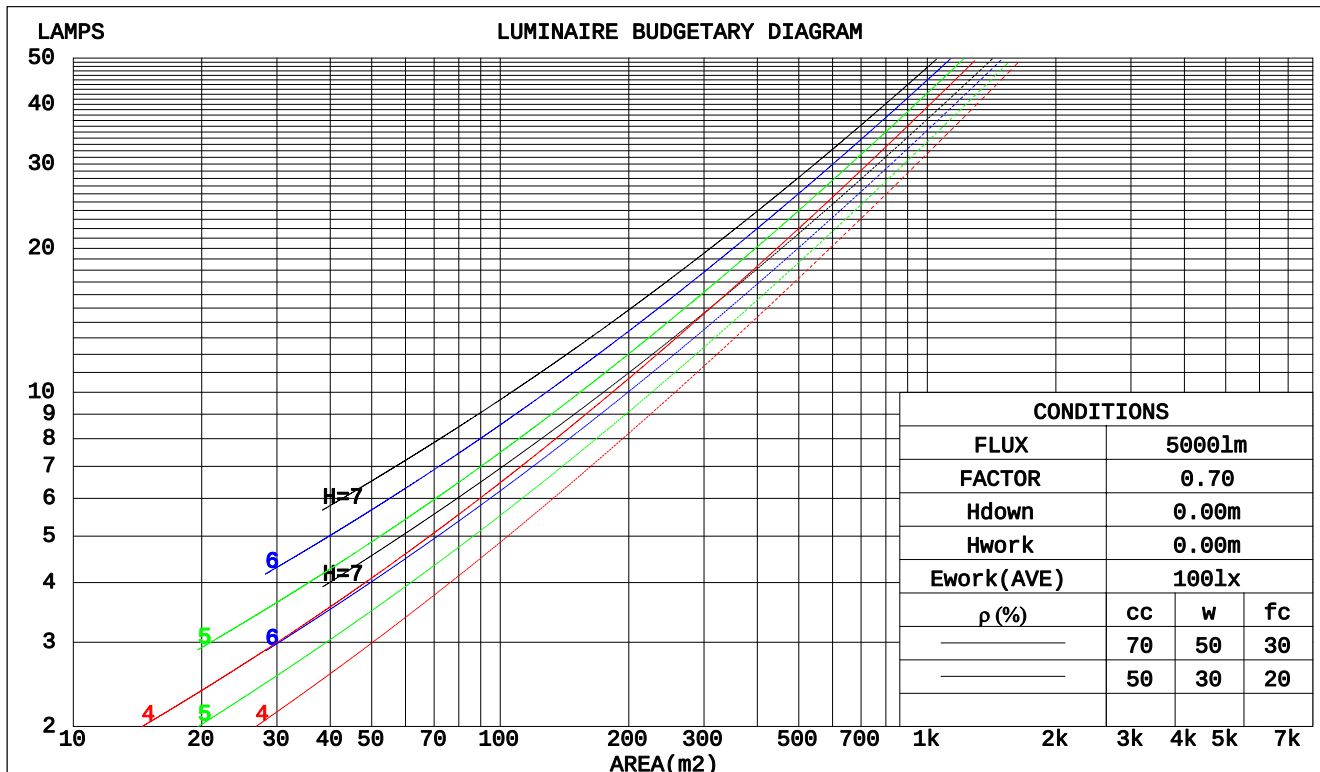
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-10-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.00V I:1.020A P:24.48W PF:1.000 Lamp Flux:2267.66x1 lm		
NAME: Tube120-3000k-90RA	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

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	1.14	1.14	1.14	1.09	1.09	1.09	.99	.99	.99	.90	.90	.90	.82	.82	.82	.78
1.0	.94	.89	.84	.90	.85	.81	.82	.78	.74	.74	.71	.68	.67	.64	.62	.58
2.0	.81	.73	.66	.77	.70	.63	.70	.64	.59	.63	.58	.54	.57	.53	.50	.46
3.0	.70	.61	.53	.66	.58	.52	.60	.53	.48	.55	.49	.44	.49	.45	.41	.38
4.0	.61	.52	.44	.58	.50	.43	.53	.46	.40	.48	.42	.37	.44	.38	.34	.31
5.0	.54	.45	.38	.52	.43	.36	.47	.40	.34	.43	.37	.32	.39	.34	.29	.27
6.0	.48	.39	.32	.46	.38	.31	.42	.35	.29	.39	.32	.27	.35	.30	.26	.23
7.0	.44	.35	.28	.42	.33	.27	.38	.31	.26	.35	.29	.24	.32	.27	.22	.20
8.0	.40	.31	.25	.38	.30	.24	.35	.28	.23	.32	.26	.21	.29	.24	.20	.18
9.0	.36	.28	.22	.35	.27	.22	.32	.25	.20	.29	.23	.19	.27	.22	.18	.16
10.0	.33	.25	.20	.32	.24	.19	.30	.23	.18	.27	.21	.17	.25	.20	.16	.14



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-10-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:24.00V I:1.020A P:24.48W PF:1.000 Lamp Flux:2267.66x1 lm									
NAME: Tube120-3000k-90RA					TYPE:			WEIGHT:	
DIM.:					SPEC.:			SERIAL No.:	
MFR.:					SUR.:			PROTECTION ANGLE:	

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	.392	.223	.071	.378	.216	.069	.352	.202	.065	.329	.190	.061	.307	.178	.057		
2.0	.337	.185	.057	.324	.179	.055	.301	.167	.052	.279	.157	.049	.259	.147	.046		
3.0	.298	.159	.047	.287	.154	.046	.265	.144	.044	.246	.135	.041	.227	.126	.039		
4.0	.268	.139	.041	.257	.135	.040	.238	.126	.038	.220	.118	.036	.203	.110	.034		
5.0	.243	.124	.036	.233	.120	.035	.216	.112	.033	.199	.105	.031	.184	.098	.030		
6.0	.222	.111	.032	.214	.108	.031	.198	.101	.029	.183	.095	.028	.169	.089	.026		
7.0	.205	.101	.029	.197	.098	.028	.182	.092	.027	.168	.086	.025	.155	.081	.024		
8.0	.190	.093	.026	.183	.090	.025	.169	.084	.024	.156	.079	.023	.144	.074	.022		
9.0	.177	.085	.024	.170	.083	.023	.158	.078	.022	.146	.073	.021	.135	.068	.020		
10.0	.165	.079	.022	.159	.077	.021	.148	.072	.020	.137	.068	.019	.126	.064	.018		

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	.355	.355	.355	.304	.304	.304	.207	.207	.207	.119	.119	.119	.038	.038	.038	
1.0	.352	.322	.294	.301	.276	.253	.206	.190	.175	.119	.110	.102	.038	.035	.033	
2.0	.346	.299	.260	.296	.257	.225	.203	.178	.157	.117	.104	.092	.038	.034	.030	
3.0	.338	.283	.239	.290	.244	.207	.199	.169	.145	.115	.099	.086	.037	.032	.028	
4.0	.330	.270	.225	.284	.234	.195	.195	.163	.137	.113	.095	.081	.036	.031	.027	
5.0	.323	.261	.215	.277	.226	.187	.191	.158	.132	.111	.093	.078	.036	.030	.026	
6.0	.315	.253	.208	.271	.219	.181	.187	.153	.128	.108	.090	.076	.035	.029	.025	
7.0	.308	.246	.203	.265	.214	.177	.183	.150	.125	.106	.088	.075	.034	.029	.025	
8.0	.302	.241	.199	.260	.209	.174	.180	.147	.123	.104	.087	.073	.034	.028	.024	
9.0	.295	.236	.196	.254	.205	.171	.176	.144	.121	.103	.085	.072	.033	.028	.024	
10.0	.289	.232	.194	.250	.201	.169	.173	.142	.120	.101	.084	.072	.033	.028	.024	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-10-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

Uncorrected UGR Table

Test:U:24.00V I:1.020A P:24.48W PF:1.000 Lamp Flux:2267.66x1 lm											
NAME: Tube120-3000k-90RA					TYPE:			WEIGHT:			
DIM.:					SPEC.:			SERIAL No.:			
MFR.:					SUR.:			PROTECTION ANGLE:			
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	2H	18.4	19.7	19.0	20.3	20.9	15.9	17.2	16.4	17.8	18.4
	3H	21.2	22.5	21.8	23.1	23.7	17.4	18.6	18.0	19.2	19.9
	4H	22.8	24.0	23.4	24.6	25.3	18.1	19.2	18.7	19.8	20.5
	6H	24.5	25.6	25.2	26.3	27.0	18.6	19.7	19.2	20.3	21.0
	8H	25.5	26.6	26.1	27.2	27.9	18.8	19.9	19.4	20.5	21.2
	12H	26.6	27.7	27.3	28.3	29.1	18.9	19.9	19.6	20.6	21.3
4H	2H	18.9	20.1	19.5	20.7	21.4	17.1	18.3	17.7	18.9	19.6
	3H	22.0	23.0	22.7	23.7	24.4	18.9	20.0	19.6	20.6	21.4
	4H	23.8	24.7	24.4	25.4	26.2	19.8	20.7	20.4	21.4	22.2
	6H	25.7	26.6	26.4	27.3	28.1	20.5	21.3	21.2	22.0	22.8
	8H	26.8	27.6	27.5	28.3	29.2	20.8	21.6	21.5	22.3	23.1
	12H	28.1	28.8	28.8	29.6	30.4	21.0	21.7	21.7	22.4	23.3
8H	4H	24.1	24.9	24.8	25.6	26.4	21.0	21.8	21.7	22.5	23.3
	6H	26.4	27.1	27.1	27.8	28.7	22.1	22.8	22.8	23.5	24.4
	8H	27.7	28.3	28.5	29.1	30.0	22.6	23.2	23.4	24.0	24.8
	12H	29.2	29.8	30.0	30.5	31.5	23.0	23.6	23.8	24.3	25.2
12H	4H	24.1	24.9	24.8	25.6	26.4	21.4	22.1	22.1	22.9	23.7
	6H	26.5	27.1	27.3	27.9	28.7	22.8	23.4	23.5	24.1	25.0
	8H	27.9	28.5	28.7	29.2	30.1	23.5	24.0	24.2	24.8	25.7
Variations with the observer position at spacings:											
S = 1.0H		+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H		+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H		+ 0.3 / - 0.4					+ 0.2 / - 0.4				

CIE Pub.117 Corrected 2268 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.8)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-10-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:24.00V I:1.020A P:24.48W PF:1.000 Lamp Flux:2267.66x1 lm		
NAME: Tube120-3000k-90RA	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

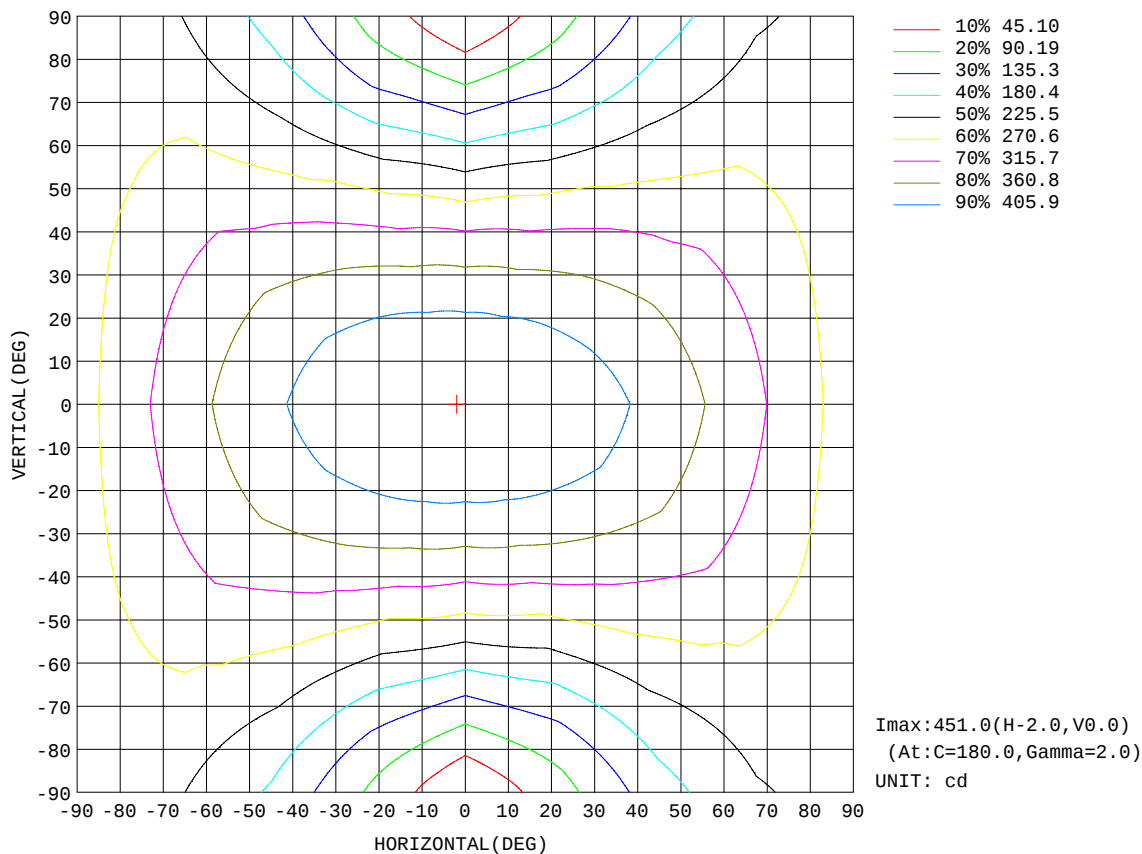
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	46	34	26	45	33	26	43	32	26	19
0.80	55	42	34	54	41	33	51	40	33	25
1.00	63	50	41	61	49	41	57	49	39	30
1.25	70	57	48	67	55	47	63	53	45	35
1.50	75	62	54	72	61	52	67	57	50	39
2.00	82	71	62	79	69	61	73	64	58	45
2.50	87	76	68	83	74	66	76	69	62	49
3.00	91	81	73	87	78	71	79	73	67	52
4.00	95	87	80	91	84	78	83	78	72	57
5.00	98	91	85	94	88	82	86	81	76	60
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-10-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:24.00V I:1.020A P:24.48W PF:1.000 Lamp Flux:2267.66x1 lm		
NAME: Tube120-3000k-90RA	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

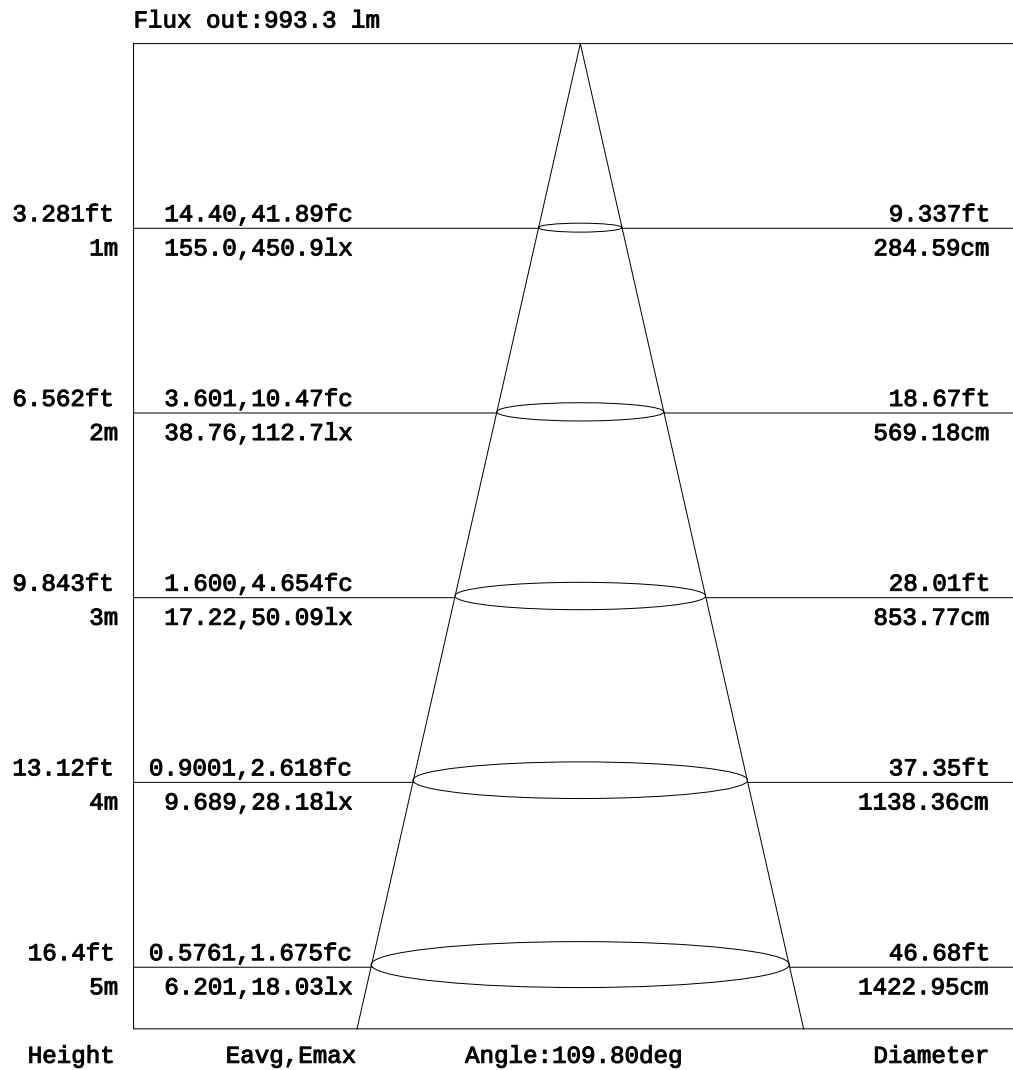


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-10-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

AAI Figure

Test:U:24.00V I:1.020A P:24.48W PF:1.000 Lamp Flux:2267.66x1 lm		
NAME: Tube120-3000k-90RA	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



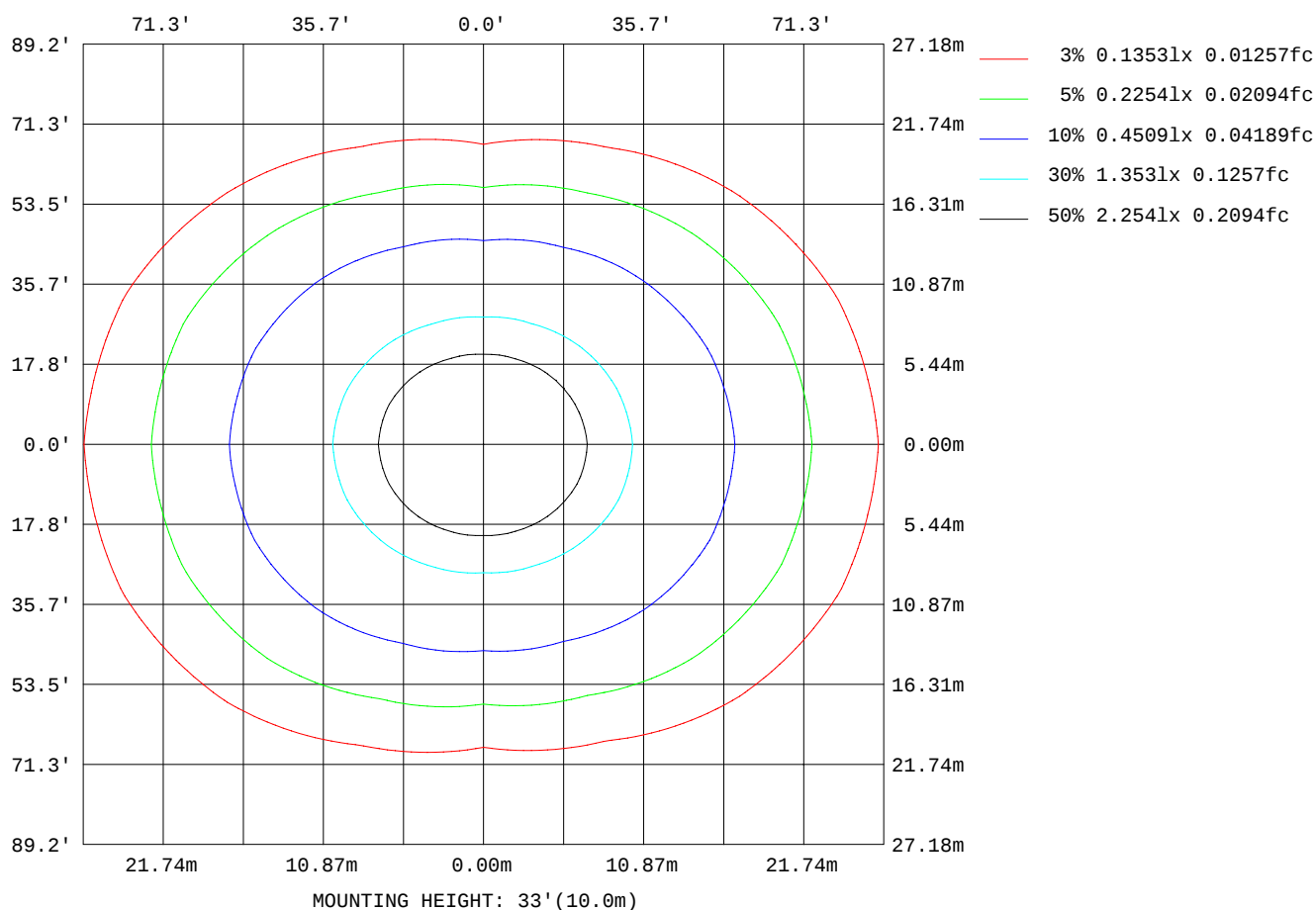
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-10-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:24.00V I:1.020A P:24.48W PF:1.000 Lamp Flux:2267.66x1 lm		
NAME: Tube120-3000k-90RA	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-10-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

Average Luminance Table(CIBSE)

Test:U:24.00V I:1.020A P:24.48W PF:1.000 Lamp Flux:2267.66x1 lm		
NAME: Tube120-3000k-90RA	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Parameter description for average Luminance	Symbol	Value	Unit
Luminance in Azimuth Plane	Bc	refer Table 2	cd/sq.m.
Intensity at angle Gamma in given azimuth plane	I	from data	cd/klm
Number of lamps	N	1	
Output of each lamp(initial lumens as specified)	F	2267.66	lm
Multiplying factor	K	1	
Luminous area in horizontal plane used in calculations	A	0.1	sq.m.
Angle to the downward vertical from light centre	Gamma	from data	deg

Table 1. Calculation parameters for determination of CIBSE LG3:1996 Average Luminance

G deg	C plane(deg)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
55	6320	6253	6090	5813	5455	5031	4590	4226	4012	3941	4066	4327	4720	5175	5597	5944	6219	6405	6476
60	6949	6867	6660	6309	5852	5306	4732	4245	3935	3821	4007	4378	4900	5489	6032	6477	6825	7054	7139
65	7850	7745	7478	7030	6441	5731	4973	4312	3861	3679	3956	4489	5196	5971	6677	7250	7694	7981	8084
70	9218	9085	8737	8149	7371	6425	5402	4473	3771	3457	3901	4714	5703	6745	7685	8444	9024	9393	9521
75	11526	11229	10701	9933	8942	7669	6222	4862	3782	3275	3968	5207	6643	8113	9402	10413	11196	11733	11945
80	16189	15749	14948	13775	12248	10279	8021	5838	4000	3098	4298	6388	8693	10978	12929	14418	15586	16452	16828
85	30240	29387	27791	25430	22343	18378	13813	9227	5075	2934	5686	10357	15191	19812	23758	26783	29039	30500	31043

Table 2. Average Luminance(cd/sq.m.) for defined C plane,Gamma angle

CIBSE Category	Gamma (deg)	Average Luminance		Patch Luminance	
		maximum calculated	specified maximum	maximum measured	specified maximum
Category 1	55 to 90	31043	200	---	500
Category 2	65 to 90	31043	200	---	500
Category 3	75 to 90	31043	200	---	500

Table 3. Tabulation of Average and Patch Luminance(cd/sq.m.) for defined CIBSE categories

No match

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-10-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

Average Luminance Table(CIBSE)

Test:U:24.00V I:1.020A P:24.48W PF:1.000 Lamp Flux:2267.66x1 lm		
NAME: Tube120-3000k-90RA	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Parameter description for average Luminance	Symbol	Value	Unit
Luminance in Azimuth Plane	Bc	refer Table 2	cd/sq.m.
Intensity at angle Gamma in given azimuth plane	I	from data	cd/klm
Number of lamps	N	1	
Output of each lamp(initial lumens as specified)	F	2267.66	lm
Multiplying factor	K	1	
Luminous area in horizontal plane used in calculations	A	0.1	sq.m.
Angle to the downward vertical from light centre	Gamma	from data	deg

Table 1. Calculation parameters for determination of CIBSE LG3:2001 Average Luminance

G deg	C plane(deg)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
55	6320	6253	6090	5813	5455	5031	4590	4226	4012	3941	4066	4327	4720	5175	5597	5944	6219	6405	6476
60	6949	6867	6660	6309	5852	5306	4732	4245	3935	3821	4007	4378	4900	5489	6032	6477	6825	7054	7139
65	7850	7745	7478	7030	6441	5731	4973	4312	3861	3679	3956	4489	5196	5971	6677	7250	7694	7981	8084
70	9218	9085	8737	8149	7371	6425	5402	4473	3771	3457	3901	4714	5703	6745	7685	8444	9024	9393	9521
75	11526	11229	10701	9933	8942	7669	6222	4862	3782	3275	3968	5207	6643	8113	9402	10413	11196	11733	11945
80	16189	15749	14948	13775	12248	10279	8021	5838	4000	3098	4298	6388	8693	10978	12929	14418	15586	16452	16828
85	30240	29387	27791	25430	22343	18378	13813	9227	5075	2934	5686	10357	15191	19812	23758	26783	29039	30500	31043

Table 2. Average Luminance(cd/sq.m.) for defined C plane,Gamma angle

range (deg)	Maximum measured	Average Luminance(cd/sq.m)			
		Maximum limit for screen type & software category used			
		Type I,II screen Some neg.s'ware	Type I,II screen Only pos.s'ware	Type III screen Some neg.s'ware	Type III screen Only pos.s'ware
55 to 90	31043	1000	1500	200	500
65 to 90	31043	1000	1500	200	500

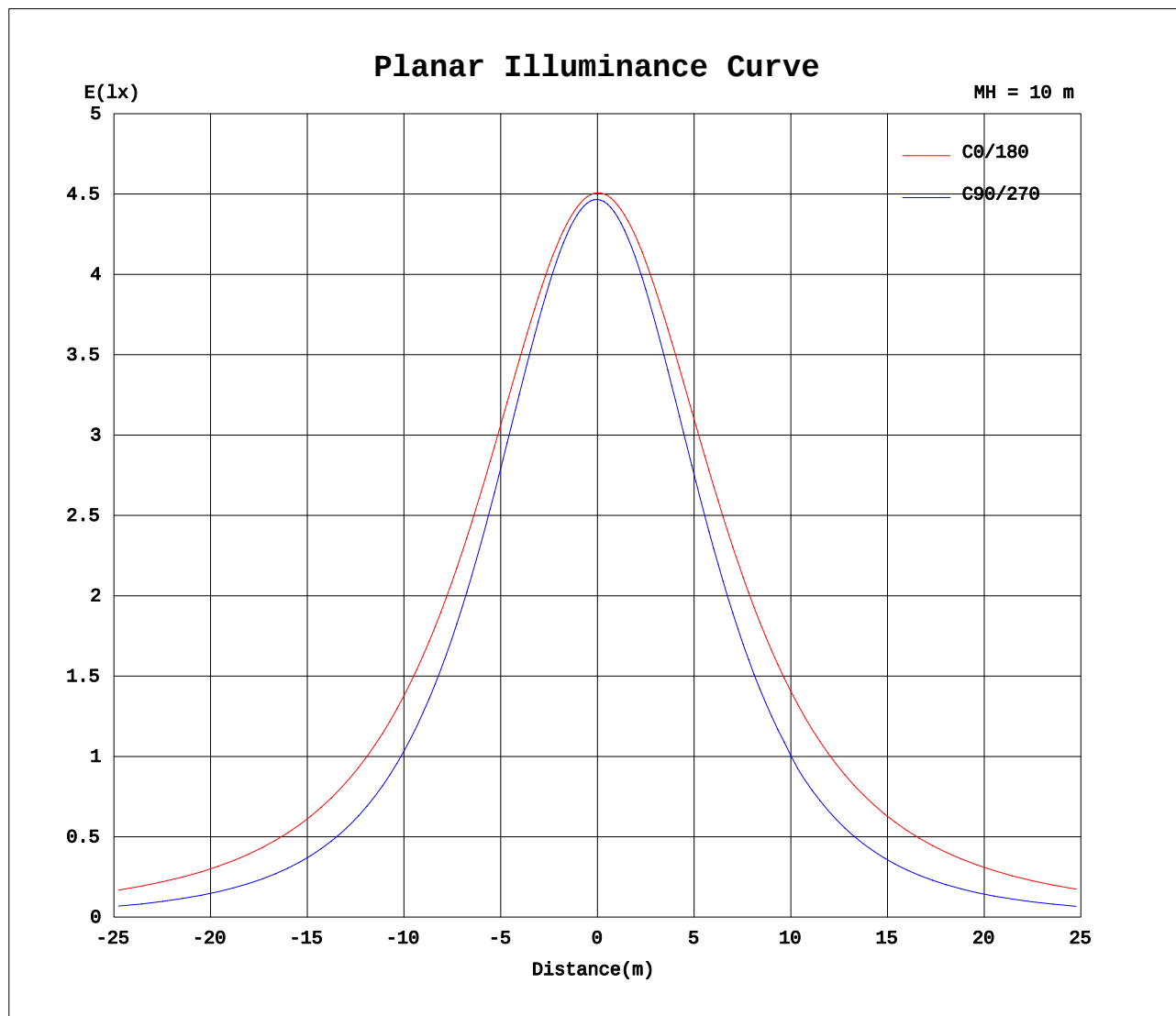
Table 3. Tabulation of average luminance(cd/sq.m.) and luminance limits

No match

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-10-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-10-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:1.020A P:24.48W PF:1.000 Lamp Flux:2267.66x1 lm																	
NAME: Tube120-3000k-90RA									TYPE:						WEIGHT:		
DIM.:									SPEC.:						SERIAL No.:		
MFR.:									SUR.:						PROTECTION ANGLE:		

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	23	45	68	90	113	135	158	180	203	225	248	270	293	315	338			
0	451	450	449	448	447	446	445	445	451	450	449	448	447	446	445	445			
5	450	449	447	446	445	445	445	445	451	449	447	445	444	443	443	443			
10	447	446	443	441	439	440	441	443	449	447	443	439	437	436	438	439			
15	443	441	436	431	429	431	435	439	446	442	436	429	425	426	430	434			
20	438	434	426	418	415	419	426	433	441	436	426	415	410	412	420	427			
25	431	426	413	402	397	403	415	426	435	428	413	398	391	395	407	418			
30	422	416	398	382	375	385	401	417	428	418	399	378	369	375	392	408			
35	413	404	382	360	350	363	386	407	419	407	382	356	344	353	376	397			
40	402	391	363	335	323	339	369	395	409	394	364	331	316	328	358	384			
45	390	377	344	308	292	313	350	382	397	381	345	304	284	302	338	370			
50	377	362	323	275	260	283	330	368	385	366	325	277	251	274	318	355			
55	363	346	301	247	226	253	310	353	371	350	304	248	218	246	297	339			
60	347	329	280	217	191	225	289	337	357	334	278	219	184	217	272	323			
65	332	312	258	188	155	197	268	321	342	317	257	190	150	189	251	306			
70	315	295	237	160	118	169	248	304	326	300	237	162	116	162	231	289			
75	298	273	217	134	84.8	144	228	285	309	283	217	135	84.1	135	212	271			
80	281	255	197	111	53.8	121	209	266	292	265	198	112	54.1	113	193	254			
85	264	238	179	91.0	25.6	102	191	249	271	248	181	92.7	26.5	93.6	176	236			
90	246	221	162	75.0	2.06	85.8	175	232	253	231	164	77.2	1.43	78.1	159	219			
95	228	204	145	63.0	0.81	73.5	159	215	236	214	150	65.5	1.10	66.2	144	203			
100	211	187	131	54.5	0.90	64.2	143	199	219	197	136	56.8	1.97	57.5	131	186			
105	194	172	119	47.9	1.09	56.8	130	183	202	181	124	50.1	2.70	50.6	119	171			
110	177	157	107	41.4	1.32	50.5	118	167	185	166	112	44.5	3.20	38.0	107	156			
115	161	142	93.1	33.6	1.53	44.5	107	152	168	149	101	39.1	3.68	32.4	94.4	139			
120	142	128	76.5	27.4	1.76	38.4	96.0	137	152	134	91.0	33.6	4.14	25.1	70.2	125			
125	127	114	64.9	21.8	1.98	32.0	85.2	123	136	120	80.7	27.8	4.59	20.2	56.4	112			
130	113	97.9	53.5	16.6	2.18	25.2	74.0	109	121	106	70.0	21.7	4.98	16.0	45.7	89.1			
135	98.2	76.7	43.3	11.7	2.37	18.3	62.6	94.1	105	91.3	59.2	15.4	5.32	11.9	35.9	69.4			
140	83.1	59.4	33.9	7.35	3.35	11.4	50.9	79.0	88.3	76.5	48.0	9.26	5.57	8.37	27.8	49.8			
145	67.7	45.1	25.0	5.68	3.82	6.78	38.8	63.8	71.8	61.3	36.4	6.89	5.76	6.78	21.2	36.5			
150	52.2	32.3	17.4	5.88	4.27	6.26	26.6	48.2	55.0	45.9	24.7	6.75	5.88	6.73	14.8	25.8			
155	36.4	22.2	12.2	5.80	4.70	6.04	15.0	32.6	38.0	30.5	13.4	6.58	5.91	6.61	11.3	17.4			
160	20.6	11.9	7.05	5.77	5.11	5.88	7.68	17.5	21.2	15.6	7.75	6.42	5.92	6.41	7.50	9.88			
165	7.69	5.75	6.77	5.78	5.46	5.92	6.97	7.77	7.94	7.84	7.08	6.35	5.98	6.21	6.89	6.36			
170	5.20	6.75	6.32	5.87	5.76	6.02	6.39	6.78	5.40	6.85	6.53	6.23	6.05	6.11	6.39	6.72			
175	2.67	5.40	6.08	6.04	5.97	6.07	6.22	6.23	2.58	6.23	6.19	6.13	6.07	6.05	6.08	6.14			
180	2.56	6.07	6.05	6.06	6.04	6.05	6.06	6.06	2.57	6.09	6.08	6.07	6.07	6.05	6.05	6.03			

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-10-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks: