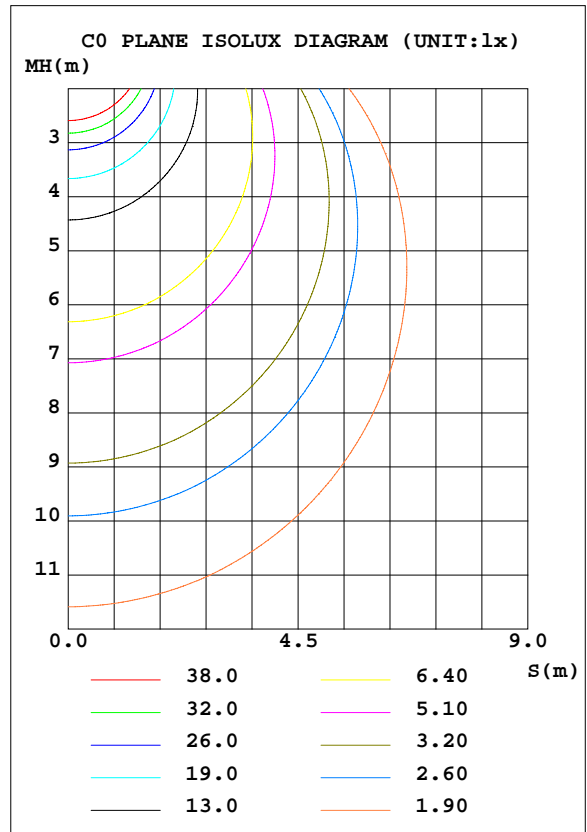
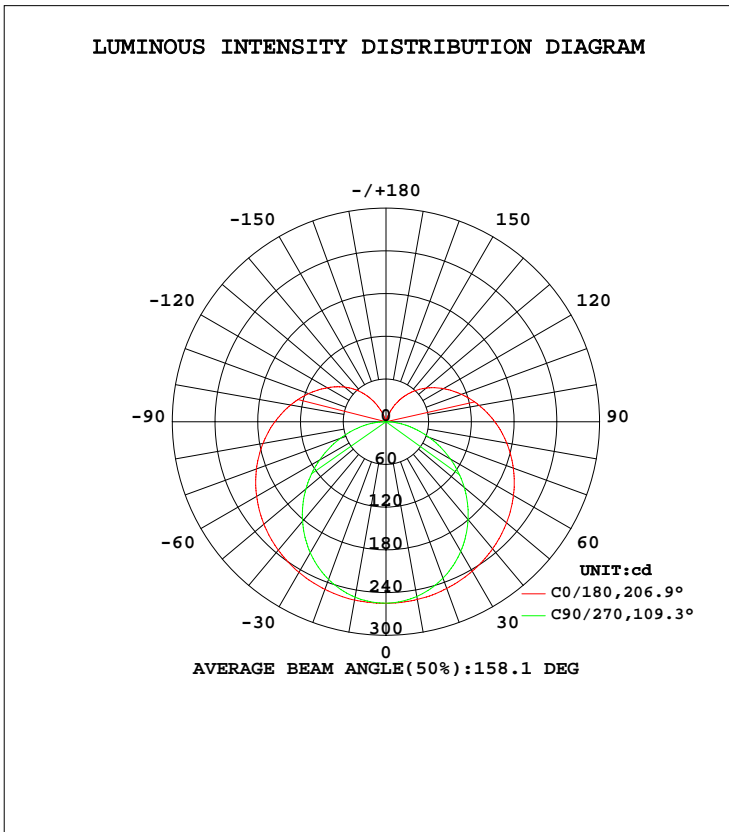


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.00V I:0.5390A P:12.94W PF:1.000 Lamp Flux:1346.52x1 lm		
NAME:CL-Tube60 3000k-90RA	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 104.09 lm/W			
MODEL		I _{max} (cd)	255.1	S/MH(C0/180)	1.44
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)	1.23
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	1346.5	η UP, DN(C0-180)	11.5, 38.3
NOMINAL FLUX(lm)	1346.52	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	11.4, 38.7
LAMPS INSIDE	1	η up(%)	22.9	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	24	η down(%)	77.1	CIBSE SHR MAX	1.55



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 GO-2000B_V1 SYSTEM V2.0.262
 Humidity:65.0%
 Test Distance:7.100m [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	253.5	250.9	249.2	251.5	254.3	252.5	250.1	251.4	0- 10	24.17	24.17	1.79,1.79
20	249.2	241.0	233.9	242.6	250.6	243.7	235.7	242.6	10- 20	70.02	94.18	6.99,6.99
30	242.3	225.1	210.0	228.4	244.3	229.2	212.6	228.1	20- 30	108.7	202.9	15.1,15.1
40	233.0	205.5	179.4	210.3	235.4	210.4	182.4	209.7	30- 40	136.8	339.7	25.2,25.2
50	221.1	183.3	143.5	189.5	223.8	188.7	146.9	188.6	40- 50	152.4	492.2	36.6,36.6
60	206.7	160.0	104.4	167.4	209.8	165.7	107.9	166.2	50- 60	155.5	647.6	48.1,48.1
70	190.3	137.1	64.60	145.4	193.5	142.6	68.06	143.7	60- 70	147.4	795.0	59,59
80	172.2	115.9	28.38	124.5	175.5	120.8	31.57	122.3	70- 80	131.3	926.3	68.8,68.8
90	152.9	97.04	1.088	105.5	156.1	101.5	1.303	103.1	80- 90	111.3	1038	77.1,77.1
100	132.9	81.16	1.190	89.05	136.0	84.87	1.169	86.33	90-100	92.42	1130	83.9,83.9
110	112.9	67.55	0.3396	74.33	115.8	70.39	0.3399	71.72	100-110	75.40	1205	89.5,89.5
120	93.25	55.13	0.4245	60.88	95.58	57.38	0.4579	53.33	110-120	58.31	1264	93.8,93.8
130	73.76	40.43	0.5613	46.25	75.90	43.33	0.5900	42.30	120-130	41.25	1305	96.9,96.9
140	53.35	23.72	0.6841	29.38	54.15	27.26	0.7221	22.35	130-140	25.33	1330	98.8,98.8
150	31.64	11.53	0.7927	12.16	30.21	10.85	0.8166	7.017	140-150	12.15	1342	99.7,99.7
160	10.39	3.003	0.8683	1.448	7.152	1.168	0.9060	0.9015	150-160	3.584	1346	100,100
170	1.064	0.9497	0.9139	0.9467	1.362	0.9190	0.9332	0.9402	160-170	0.4631	1346	100,100
180	0.9297	0.9391	0.9344	0.9344	0.9108	0.9202	0.9391	0.9438	170-180	0.0911	1347	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

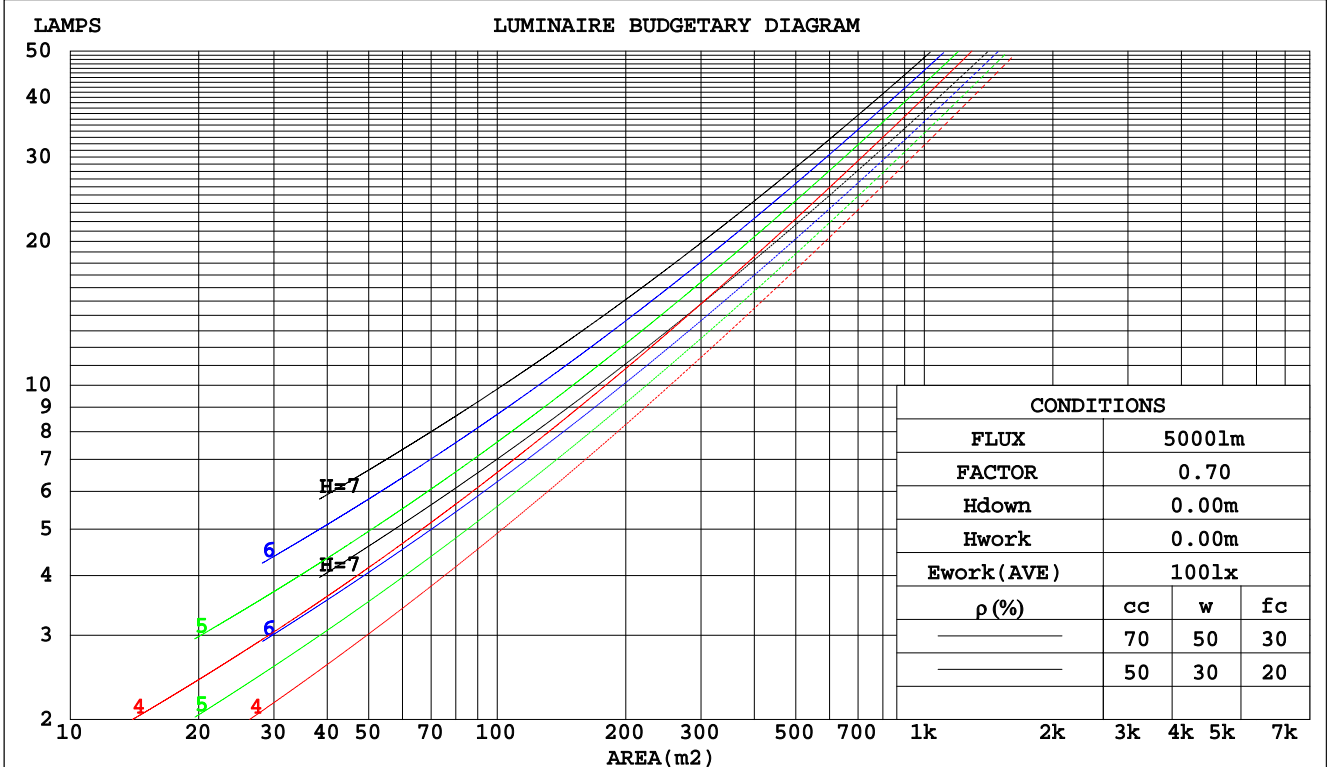
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-10-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-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:0.5390A P:12.94W PF:1.000 Lamp Flux:1346.52x1 lm		
NAME: Tube60-3000k-90RA	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Coefficients of Utilization(CU)															
0.0	1.14	1.14	1.14	1.08	1.08	1.08	.98	.98	.98	.89	.89	.89	.81	.81	.81	.77
1.0	.94	.88	.83	.89	.84	.80	.81	.77	.73	.73	.70	.67	.66	.63	.61	.57
2.0	.80	.72	.65	.76	.69	.63	.69	.63	.58	.62	.57	.53	.56	.52	.49	.45
3.0	.69	.60	.53	.66	.58	.51	.60	.53	.47	.54	.48	.43	.48	.44	.40	.36
4.0	.61	.51	.44	.58	.49	.42	.52	.45	.39	.47	.41	.36	.42	.38	.33	.30
5.0	.54	.44	.37	.51	.42	.36	.47	.39	.33	.42	.36	.31	.38	.33	.29	.26
6.0	.48	.39	.32	.46	.37	.31	.42	.34	.29	.38	.32	.27	.34	.29	.25	.22
7.0	.43	.34	.28	.41	.33	.27	.38	.31	.25	.34	.28	.23	.31	.26	.22	.19
8.0	.39	.31	.25	.38	.29	.24	.34	.27	.22	.31	.25	.21	.29	.23	.19	.17
9.0	.36	.28	.22	.34	.27	.21	.32	.25	.20	.29	.23	.19	.26	.21	.17	.15
10.0	.33	.25	.20	.32	.24	.19	.29	.22	.18	.27	.21	.17	.24	.19	.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 GO-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:0.5390A P:12.94W PF:1.000 Lamp Flux:1346.52x1 lm		
NAME: Tube60-3000k-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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.395	.225	.071	.381	.217	.069	.355	.203	.065	.330	.190	.061	.307	.178	.057	
2.0	.339	.186	.057	.326	.179	.055	.301	.168	.052	.279	.157	.049	.259	.146	.046	
3.0	.299	.159	.048	.287	.154	.046	.265	.144	.044	.245	.134	.041	.226	.125	.039	
4.0	.268	.139	.041	.258	.135	.040	.238	.126	.038	.219	.118	.036	.202	.110	.033	
5.0	.243	.124	.036	.234	.120	.035	.215	.112	.033	.199	.105	.031	.183	.098	.029	
6.0	.222	.112	.032	.214	.108	.031	.197	.101	.029	.182	.094	.028	.167	.088	.026	
7.0	.205	.101	.029	.197	.098	.028	.182	.092	.026	.167	.086	.025	.154	.080	.024	
8.0	.190	.093	.026	.182	.090	.025	.168	.084	.024	.155	.079	.023	.143	.073	.021	
9.0	.177	.085	.024	.170	.083	.023	.157	.078	.022	.145	.073	.021	.133	.068	.020	
10.0	.165	.079	.022	.159	.077	.021	.147	.072	.020	.136	.067	.019	.125	.063	.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	.365	.365	.365	.312	.312	.312	.213	.213	.213	.122	.122	.122	.039	.039	.039	
1.0	.363	.332	.304	.310	.285	.262	.212	.196	.181	.122	.113	.105	.039	.036	.034	
2.0	.356	.309	.270	.305	.266	.233	.209	.184	.163	.120	.107	.095	.039	.035	.031	
3.0	.349	.293	.249	.299	.253	.216	.205	.176	.151	.118	.103	.089	.038	.033	.029	
4.0	.341	.281	.235	.292	.242	.204	.201	.169	.144	.116	.099	.085	.037	.032	.028	
5.0	.333	.271	.225	.286	.234	.196	.197	.164	.138	.114	.096	.082	.037	.031	.027	
6.0	.326	.263	.218	.280	.228	.190	.193	.160	.134	.112	.094	.080	.036	.031	.026	
7.0	.319	.257	.213	.274	.222	.186	.189	.156	.132	.110	.092	.078	.036	.030	.026	
8.0	.312	.251	.209	.268	.218	.183	.186	.153	.129	.108	.090	.077	.035	.030	.026	
9.0	.306	.246	.206	.263	.214	.180	.182	.150	.128	.106	.089	.076	.034	.029	.025	
10.0	.300	.242	.204	.258	.210	.178	.179	.148	.126	.105	.087	.075	.034	.029	.025	

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 GO-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:0.5390A P:12.94W PF:1.000 Lamp Flux:1346.52x1 lm										
NAME: Tube60-3000k-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	16.5	17.8	17.0	18.4	19.0	13.6	15.0	14.2	15.5	16.2
3H	19.4	20.6	20.0	21.2	21.9	15.1	16.4	15.7	17.0	17.7
4H	21.0	22.2	21.6	22.8	23.5	15.8	17.0	16.4	17.6	18.3
6H	22.8	23.9	23.4	24.5	25.3	16.3	17.4	16.9	18.0	18.8
8H	23.8	24.9	24.5	25.5	26.3	16.5	17.5	17.1	18.2	18.9
12H	25.0	26.0	25.6	26.6	27.4	16.6	17.6	17.3	18.3	19.1
4H 2H	17.0	18.1	17.6	18.8	19.5	15.0	16.1	15.6	16.8	17.5
3H	20.1	21.2	20.8	21.8	22.6	16.8	17.8	17.4	18.4	19.2
4H	22.0	22.9	22.7	23.6	24.4	17.6	18.5	18.3	19.2	20.0
6H	24.0	24.8	24.7	25.6	26.4	18.3	19.1	19.0	19.8	20.7
8H	25.1	25.9	25.9	26.6	27.5	18.6	19.3	19.3	20.1	20.9
12H	26.4	27.2	27.2	27.9	28.8	18.8	19.5	19.5	20.2	21.1
8H 4H	22.3	23.1	23.0	23.8	24.6	18.9	19.7	19.6	20.4	21.3
6H	24.6	25.3	25.4	26.1	26.9	20.0	20.7	20.8	21.4	22.3
8H	26.0	26.6	26.8	27.4	28.3	20.5	21.1	21.3	21.9	22.8
12H	27.6	28.1	28.3	28.9	29.8	20.9	21.4	21.7	22.2	23.2
12H 4H	22.3	23.0	23.0	23.8	24.6	19.4	20.1	20.1	20.8	21.7
6H	24.7	25.3	25.5	26.1	27.0	20.7	21.3	21.5	22.1	23.0
8H	26.2	26.7	27.0	27.5	28.5	21.4	22.0	22.2	22.7	23.7
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 / - 0.3					+ 0.2 / - 0.4				

CIE Pub.117 Corrected 1347 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.0)

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 GO-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:0.5390A P:12.94W PF:1.000 Lamp Flux:1346.52x1 lm		
NAME: Tube60-3000k-90RA	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

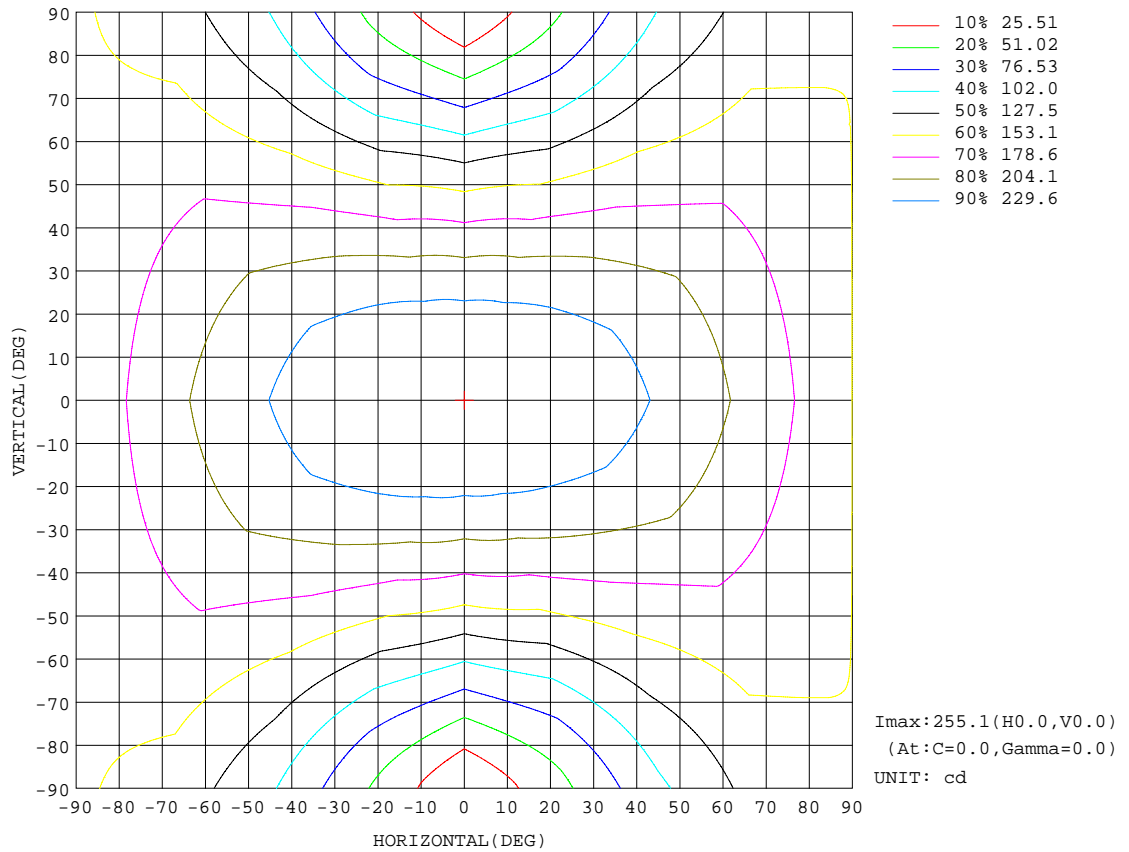
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	46	33	26	44	33	25	42	32	25	18
0.80	55	41	33	53	40	33	50	39	32	24
1.00	62	49	40	60	48	40	56	48	38	29
1.25	69	56	47	66	54	46	62	52	44	34
1.50	74	62	53	71	60	51	66	56	49	38
2.00	82	70	61	78	68	60	72	63	56	44
2.50	86	75	67	82	73	65	76	68	61	48
3.00	90	80	72	86	77	70	79	72	66	51
4.00	95	86	79	90	83	77	83	77	71	56
5.00	98	91	84	93	87	81	85	80	75	59
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
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.262
 Humidity:65.0%
 Test Distance:7.100m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:24.00V I:0.5390A P:12.94W PF:1.000 Lamp Flux:1346.52x1 lm		
NAME: Tube60-3000k-90RA	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

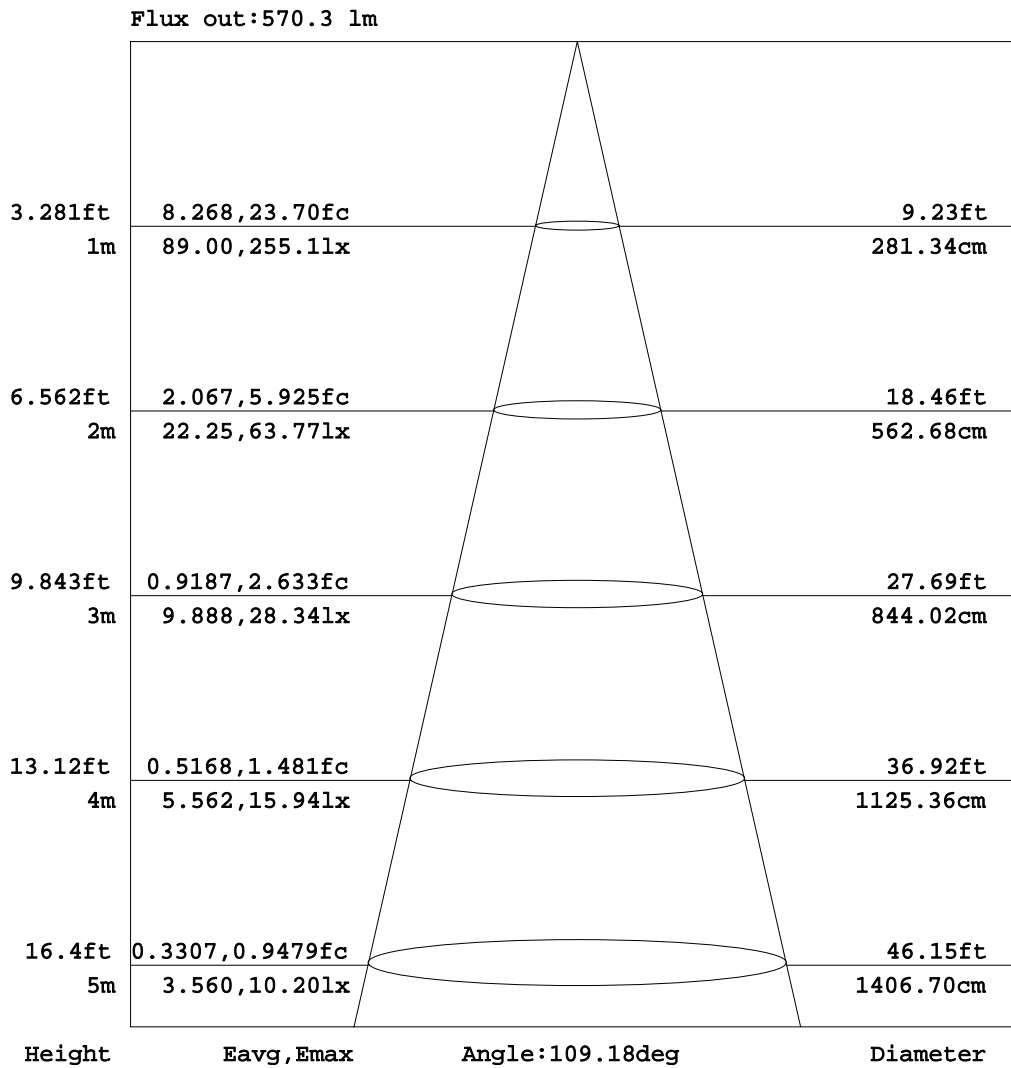


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-10-24

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

AAI Figure

Test:U:24.00V I:0.5390A P:12.94W PF:1.000 Lamp Flux:1346.52x1 lm		
NAME: Tube60-3000k-90RA	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



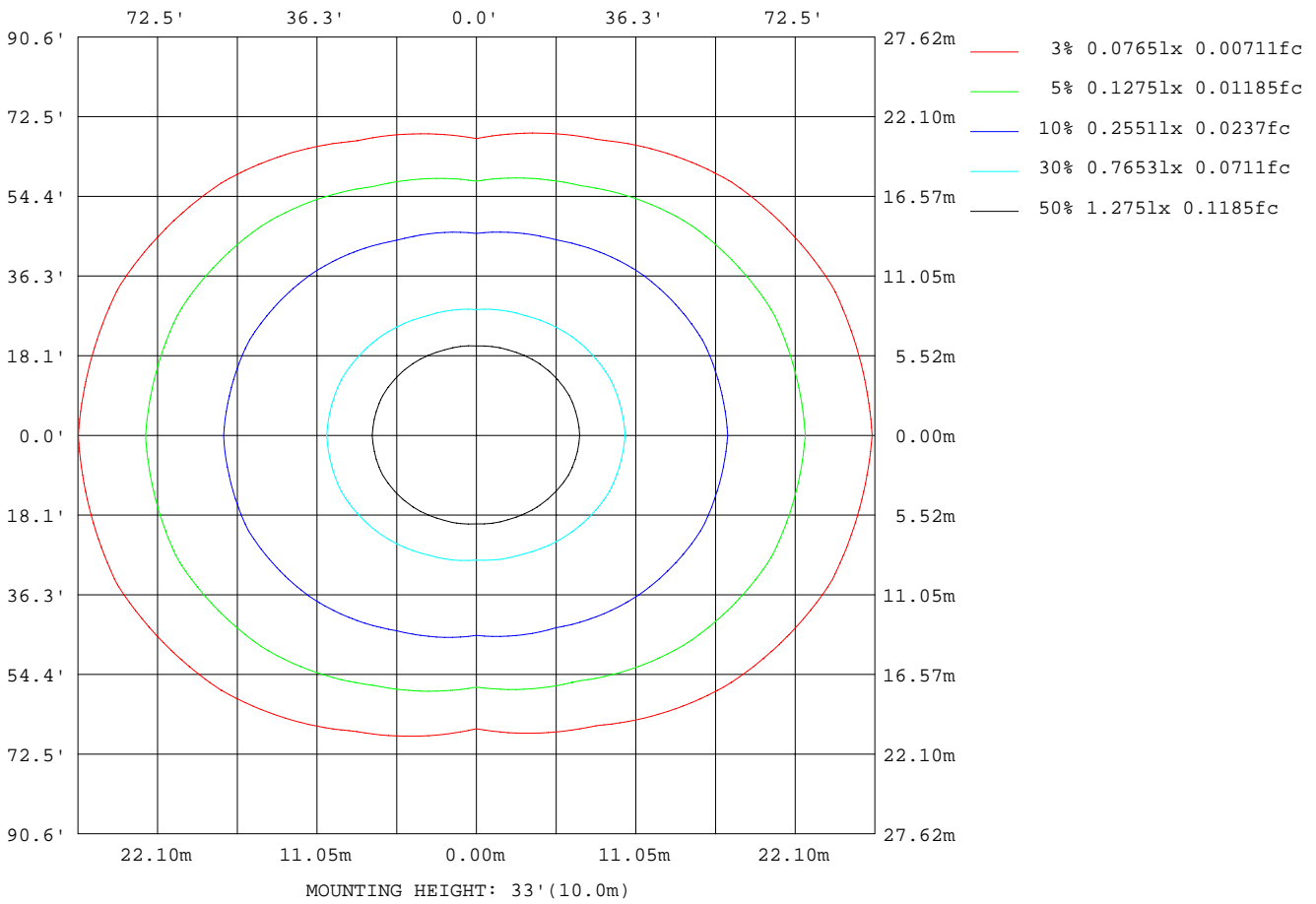
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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 GO-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:24.00V I:0.5390A P:12.94W PF:1.000 Lamp Flux:1346.52x1 lm		
NAME: Tube60-3000k-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 GO-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:0.5390A P:12.94W PF:1.000 Lamp Flux:1346.52x1 lm		
NAME: Tube60-3000k-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	1346.52	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	3734	3669	3547	3357	3121	2859	2597	2374	2223	2166	2266	2455	2702	2976	3239	3467	3644	3749	3785
60	4135	4055	3903	3663	3364	3025	2681	2382	2172	2088	2228	2487	2815	3172	3510	3799	4021	4152	4195
65	4703	4604	4410	4107	3723	3282	2825	2419	2122	1997	2195	2556	2998	3468	3908	4278	4559	4725	4778
70	5564	5437	5185	4790	4288	3701	3082	2519	2083	1889	2181	2702	3310	3942	4526	5011	5377	5591	5658
75	7009	6838	6494	5955	5264	4447	3572	2752	2080	1765	2218	3008	3887	4777	5587	6254	6754	7046	7137
80	9917	9659	9137	8319	7267	6010	4650	3335	2195	1634	2406	3726	5130	6512	7757	8774	9531	9972	10104
85	18670	18155	17110	15476	13368	10850	8105	5351	2798	1480	3218	6129	9061	11850	14346	16385	17899	18777	19038

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

CIBSE Category	Gamma (deg)	Average Luminance		Patch Luminance	
		maximum	specified	maximum	specified
		calculated	maximum	measured	maximum
Category 1	55 to 90	19038	200	---	500
Category 2	65 to 90	19038	200	---	500
Category 3	75 to 90	19038	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 GO-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:0.5390A P:12.94W PF:1.000 Lamp Flux:1346.52x1 lm		
NAME: Tube60-3000k-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	1346.52	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	3734	3669	3547	3357	3121	2859	2597	2374	2223	2166	2266	2455	2702	2976	3239	3467	3644	3749	3785
60	4135	4055	3903	3663	3364	3025	2681	2382	2172	2088	2228	2487	2815	3172	3510	3799	4021	4152	4195
65	4703	4604	4410	4107	3723	3282	2825	2419	2122	1997	2195	2556	2998	3468	3908	4278	4559	4725	4778
70	5564	5437	5185	4790	4288	3701	3082	2519	2083	1889	2181	2702	3310	3942	4526	5011	5377	5591	5658
75	7009	6838	6494	5955	5264	4447	3572	2752	2080	1765	2218	3008	3887	4777	5587	6254	6754	7046	7137
80	9917	9659	9137	8319	7267	6010	4650	3335	2195	1634	2406	3726	5130	6512	7757	8774	9531	9972	10104
85	18670	18155	17110	15476	13368	10850	8105	5351	2798	1480	3218	6129	9061	11850	14346	16385	17899	18777	19038

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	19038	1000	1500	200	500
65 to 90	19038	1000	1500	200	500

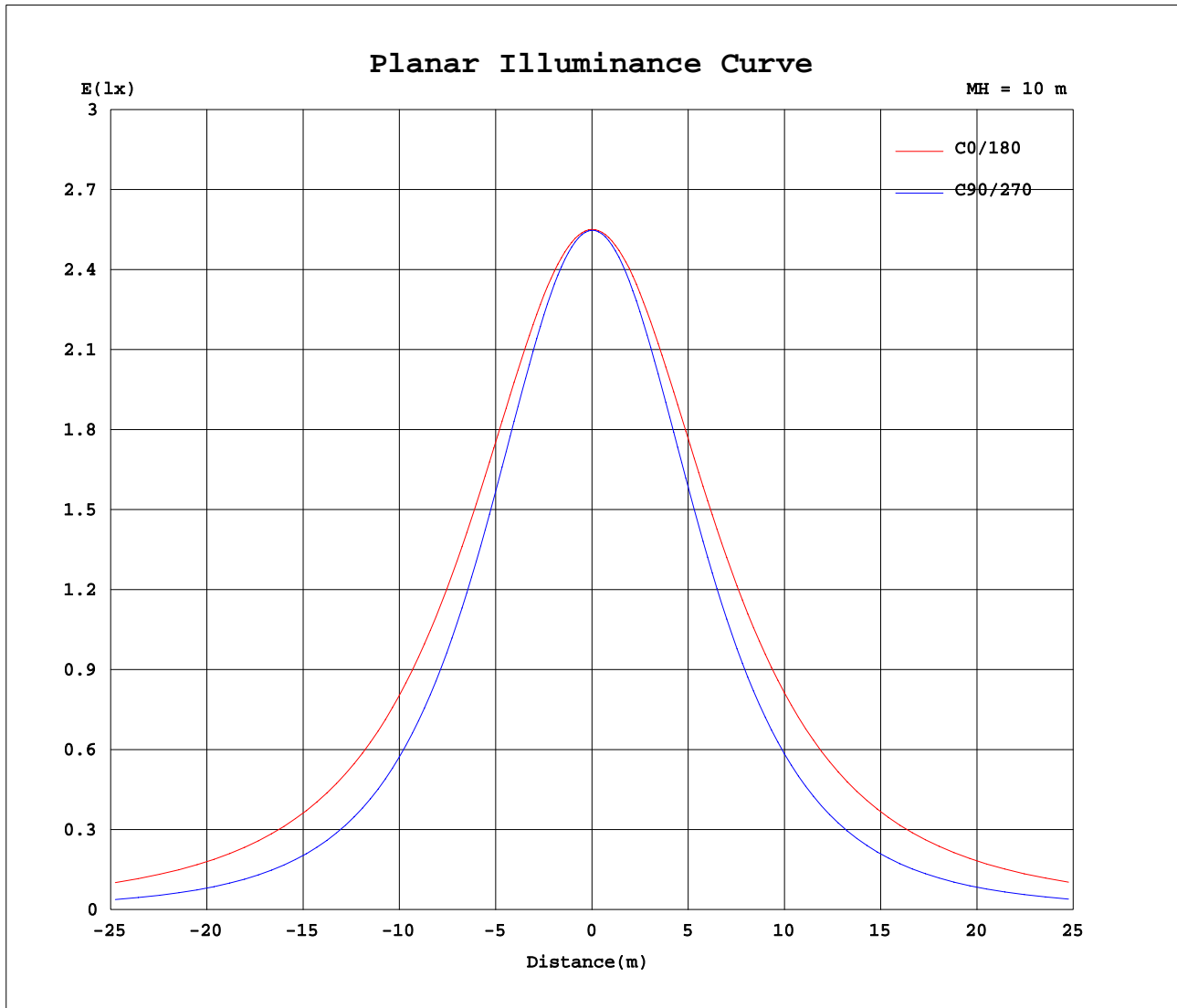
Table 3. Tabulation of average luminance(cd/sq.m.) and luminance limits

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 GO-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 GO-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:0.5390A P:12.94W PF:1.000 Lamp Flux:1346.52x1 lm		
NAME: Tube60-3000k-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	255	255	255	255	255	255	255	254	255	255	255	255	255	255	255	254			
5	255	254	254	253	253	253	254	254	255	255	255	254	254	254	254	254			
10	253	252	251	250	249	250	252	253	254	254	252	251	250	250	251	252			
15	252	250	247	244	243	244	248	251	253	252	249	246	244	245	248	250			
20	249	246	241	236	234	237	243	248	251	249	244	238	236	237	243	247			
25	246	242	234	226	223	228	236	244	248	245	237	229	225	228	236	243			
30	242	237	225	214	210	217	228	240	244	240	229	218	213	217	228	238			
35	238	231	216	201	195	204	220	234	240	234	220	205	198	205	219	232			
40	233	224	206	187	179	190	210	228	235	228	210	191	182	191	210	226			
45	227	217	195	171	162	175	200	222	230	221	200	176	165	176	199	219			
50	221	209	183	155	144	160	189	215	224	214	189	160	147	160	189	212			
55	214	201	172	139	124	144	179	207	217	206	177	144	128	144	178	204			
60	207	193	160	122	104	128	167	199	210	197	166	127	108	128	166	196			
65	199	184	148	106	84.4	113	156	190	202	188	154	111	87.9	113	155	187			
70	190	175	137	90.8	64.6	97.6	145	181	194	179	143	95.2	68.1	97.3	144	178			
75	181	165	126	76.5	45.7	83.7	135	172	185	169	132	80.6	49.2	83.1	133	168			
80	172	156	116	63.8	28.4	71.2	125	163	175	160	121	67.6	31.6	70.4	122	159			
85	163	146	106	53.1	12.9	60.5	115	153	166	150	111	56.5	15.7	59.5	112	149			
90	153	137	97.0	44.6	1.09	51.8	106	144	156	140	101	47.5	1.30	50.6	103	139			
95	143	127	88.7	38.2	0.83	45.1	97.0	134	146	131	92.8	40.7	0.94	43.7	94.4	130			
100	133	118	81.2	33.6	1.19	39.9	89.1	125	136	121	84.9	35.6	1.17	38.4	86.3	120			
105	123	109	74.1	29.9	0.55	35.6	81.6	115	126	112	77.5	31.5	0.61	34.1	78.8	111			
110	113	99.8	67.5	26.6	0.34	31.8	74.3	106	116	103	70.4	27.9	0.34	20.3	71.7	102			
115	103	91.0	61.3	23.3	0.36	27.6	67.5	96.5	106	93.5	63.7	24.1	0.40	23.6	64.9	92.5			
120	93.3	82.4	55.1	19.8	0.42	23.0	60.9	87.4	95.6	84.5	57.4	19.9	0.46	21.4	53.3	83.6			
125	83.6	73.7	48.8	15.4	0.50	18.1	53.9	78.4	85.7	75.7	50.7	15.4	0.52	16.3	47.0	74.7			
130	73.8	64.9	40.4	11.3	0.56	13.0	46.3	69.3	75.9	66.7	43.3	10.8	0.59	10.7	42.3	53.1			
135	63.7	55.9	31.5	7.86	0.62	7.92	38.0	59.4	65.4	56.9	35.5	6.20	0.65	5.76	31.9	55.1			
140	53.4	46.4	23.7	4.90	0.68	3.38	29.4	48.7	54.2	46.5	27.3	2.67	0.72	2.38	22.3	45.3			
145	42.6	34.1	17.1	2.79	0.74	1.49	20.7	37.6	42.3	35.6	18.9	1.19	0.77	0.89	14.0	32.7			
150	31.6	23.3	11.5	1.51	0.79	0.86	12.2	26.4	30.2	24.6	10.8	0.84	0.82	0.80	7.02	20.4			
155	20.8	14.6	6.71	0.91	0.83	0.89	4.57	15.4	18.3	13.9	3.81	0.84	0.86	0.82	2.17	9.71			
160	10.4	7.69	3.00	0.90	0.87	0.92	1.45	5.51	7.15	4.30	1.17	0.85	0.91	0.85	0.90	2.46			
165	3.65	2.83	1.19	0.92	0.90	0.93	0.96	1.28	1.68	1.06	0.92	0.88	0.93	0.88	0.93	0.93			
170	1.06	1.25	0.95	0.93	0.91	0.93	0.95	0.93	1.36	0.92	0.92	0.91	0.93	0.90	0.94	0.93			
175	0.93	1.02	0.94	0.94	0.92	0.93	0.94	0.93	1.04	0.91	0.92	0.92	0.94	0.92	0.94	0.93			
180	0.93	0.93	0.94	0.94	0.93	0.93	0.93	0.93	0.91	0.91	0.92	0.93	0.94	0.95	0.94	0.92			

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 GO-2000B_V1 SYSTEM V2.0.262
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Remarks: