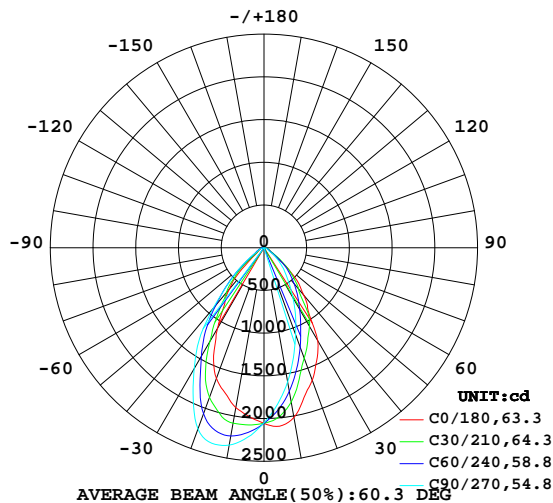


LUMINAIRE PHOTOMETRIC TEST REPORT

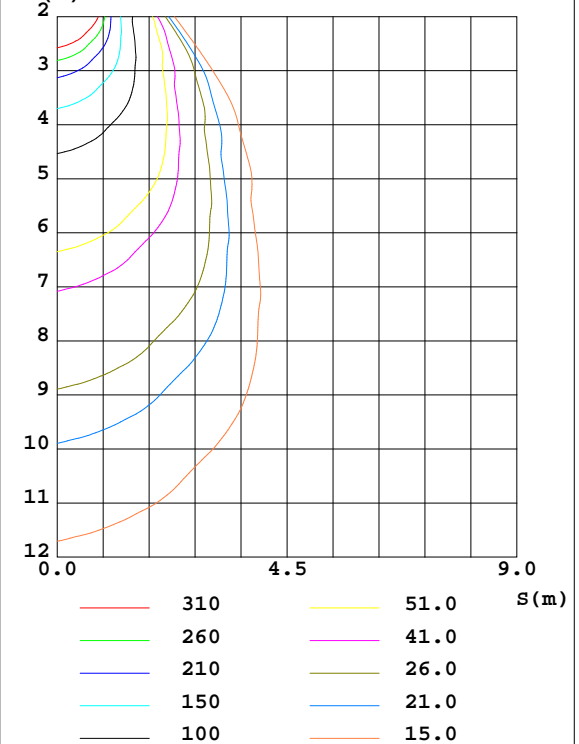
Test:U:86.400V I:0.1760A P:15.206W PF:1.0000 Freq:0Hz Lamp Flux:2611.55x1 lm		
NAME: B065 -日亜-P	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:0.04*0.9	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 171.74 lm/W			
MODEL	B065 -日亜-P	I _{max} (cd)	2379	S/MH(C0/180)	0.98
NOMINAL POWER(W)	15.204	LOR(%)	100.0	S/MH(C90/270)	0.64
RATED VOLTAGE(V)	86.4	TOTAL FLUX(lm)	2611.6	η UP,DN(C0-180)	0.5,57.2
NOMINAL FLUX(lm)	2611.55	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.7,41.6
LAMPS INSIDE	1	η up(%)	1.2	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	86.4	η down(%)	98.8	CIBSE SHR MAX	1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:1
 Test Date:2021-11-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.421
 Humidity:65.0%
 Test Distance:9.886m [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	1900	2160	2346	2282	2017	1769	1596	1660	0- 10	192.1	192.1	7.36,7.36
20	1628	1967	2259	2084	1653	1308	1082	1254	10- 20	511.8	703.9	27,27
30	1089	1367	1633	1497	1260	952.0	681.4	910.1	20- 30	652.7	1357	51.9,51.9
40	630.9	781.1	928.7	829.6	722.6	588.2	393.2	570.9	30- 40	573.1	1930	73.9,73.9
50	190.1	303.3	362.3	390.7	330.8	315.8	201.1	272.3	40- 50	377.6	2307	88.4,88.4
60	72.18	98.58	96.72	97.29	83.70	97.73	64.00	88.57	50- 60	147.7	2455	94,94
70	45.60	57.37	50.59	65.03	51.45	57.30	36.56	51.26	60- 70	69.53	2525	96.7,96.7
80	21.34	31.13	12.93	31.26	26.18	26.23	9.697	23.87	70- 80	41.13	2566	98.2,98.2
90	6.080	5.376	0.3317	8.323	9.137	7.331	0.4544	4.201	80- 90	14.72	2580	98.8,98.8
100	2.366	2.172	0.4922	1.735	2.480	1.845	0.7678	1.648	90-100	3.363	2584	98.9,98.9
110	3.420	2.084	0.9402	1.543	1.980	1.913	1.850	2.048	100-110	1.871	2586	99,99
120	4.570	2.418	1.847	2.199	3.422	3.296	3.839	3.511	110-120	2.429	2588	99.1,99.1
130	5.097	3.709	3.252	3.416	4.408	5.537	6.674	5.841	120-130	3.476	2592	99.2,99.2
140	6.498	5.580	5.137	5.276	6.847	8.502	9.753	8.734	130-140	4.473	2596	99.4,99.4
150	9.328	8.112	7.548	7.617	9.649	11.48	12.55	11.53	140-150	5.219	2601	99.6,99.6
160	12.33	11.00	10.31	10.37	12.54	13.97	14.62	13.71	150-160	5.073	2606	99.8,99.8
170	14.86	13.71	13.06	13.09	15.15	15.55	15.68	15.08	160-170	3.781	2610	99.9,99.9
180	16.21	15.69	15.36	15.16	16.23	15.74	15.37	15.20	170-180	1.426	2612	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 2147.1 lm

%lum = 82.2%

%lamp = 82.2%

Conical surface Flux(120deg): 2455.1 lm

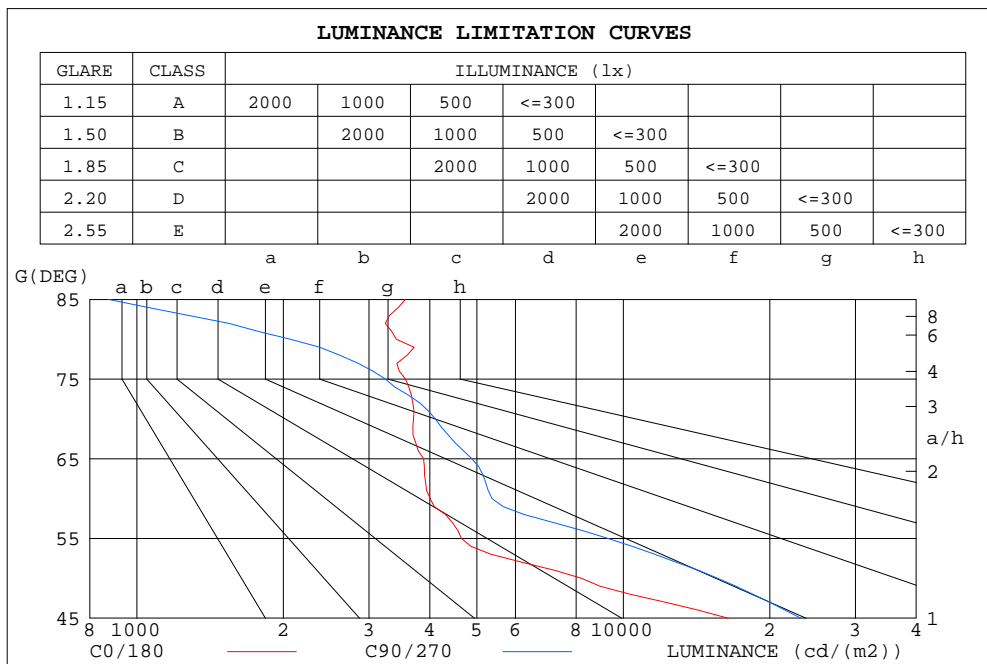
%lum = 94.0%

%lamp = 94.0%

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:1
 Test Date:2021-11-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.421
 Humidity:65.0%
 Test Distance:9.886m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES



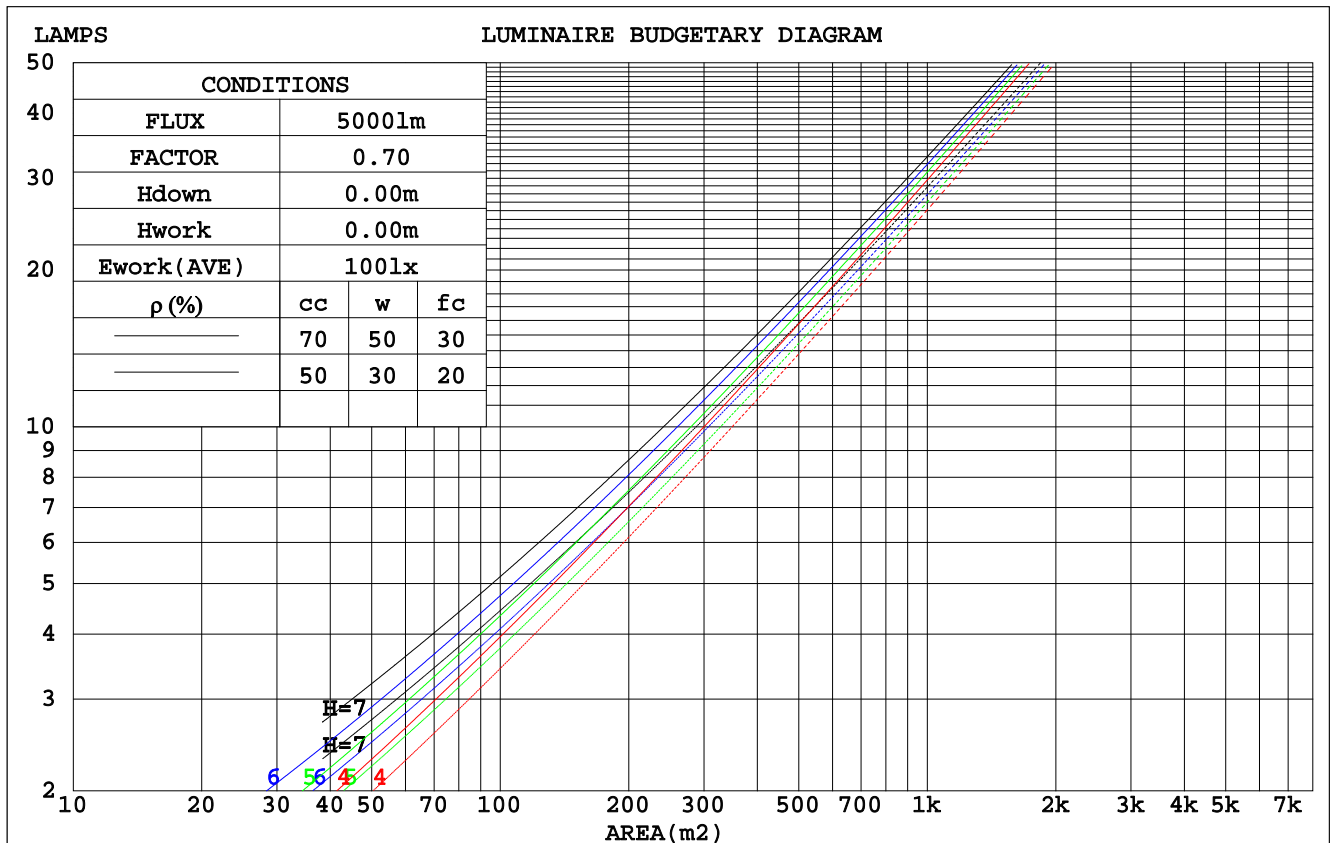
LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	3564	874
80	3414	2069
75	3566	3243
70	3703	4108
65	3884	4883
60	4010	5373
55	4649	9315
50	8213	15655
45	16413	23180

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 1
 Test Date: 2021-11-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.421
 Humidity: 65.0%
 Test Distance: 9.886m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	.99
1.0	1.08	1.05	1.03	1.06	1.03	1.01	1.02	.90	.98	.98	.96	.94	.94	.93	.91	.89
2.0	.99	.94	.90	.97	.92	.89	.93	.90	.86	.90	.87	.84	.87	.85	.82	.81
3.0	.90	.84	.80	.89	.83	.79	.86	.81	.77	.83	.79	.76	.81	.77	.75	.73
4.0	.83	.76	.71	.82	.75	.71	.79	.74	.70	.77	.72	.69	.75	.71	.68	.66
5.0	.76	.69	.64	.75	.69	.64	.73	.68	.63	.71	.66	.63	.70	.65	.62	.60
6.0	.71	.64	.59	.70	.63	.58	.68	.62	.58	.66	.61	.57	.65	.60	.57	.55
7.0	.65	.58	.54	.65	.58	.53	.63	.57	.53	.62	.57	.53	.61	.56	.52	.51
8.0	.61	.54	.49	.60	.54	.49	.59	.53	.49	.58	.52	.48	.57	.52	.48	.47
9.0	.57	.50	.46	.56	.50	.45	.55	.49	.45	.54	.49	.45	.53	.48	.45	.43
10.0	.53	.47	.42	.53	.46	.42	.52	.46	.42	.51	.46	.42	.50	.45	.42	.40



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 1
 Test Date: 2021-11-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.421
 Humidity: 65.0%
 Test Distance: 9.886m [K=1.0000]
 Remarks:

WEC AND CCEC

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.218	.124	.039	.211	.120	.038	.197	.113	.036	.185	.107	.034	.173	.101	.032		
2.0	.209	.114	.035	.202	.111	.034	.191	.106	.033	.180	.101	.032	.170	.096	.030		
3.0	.198	.105	.031	.192	.103	.031	.182	.099	.030	.173	.095	.029	.164	.091	.028		
4.0	.187	.097	.029	.182	.095	.028	.173	.092	.027	.165	.089	.027	.157	.086	.026		
5.0	.177	.090	.026	.172	.089	.026	.165	.086	.025	.157	.083	.025	.151	.081	.024		
6.0	.167	.084	.024	.164	.083	.024	.157	.080	.023	.150	.078	.023	.144	.076	.023		
7.0	.158	.078	.022	.155	.077	.022	.149	.075	.022	.143	.073	.021	.138	.072	.021		
8.0	.150	.074	.021	.148	.073	.021	.142	.071	.020	.137	.069	.020	.132	.068	.020		
9.0	.143	.069	.019	.140	.068	.019	.135	.067	.019	.131	.066	.019	.126	.064	.019		
10.0	.136	.065	.018	.134	.065	.018	.129	.063	.018	.125	.062	.018	.121	.061	.017		

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	.200	.200	.200	.171	.171	.171	.116	.116	.116	.067	.067	.067	.021	.021	.021	
1.0	.183	.166	.151	.157	.143	.130	.107	.098	.090	.062	.057	.052	.020	.018	.017	
2.0	.170	.142	.117	.146	.122	.101	.100	.084	.071	.058	.049	.041	.018	.016	.014	
3.0	.160	.123	.094	.137	.106	.081	.094	.074	.057	.054	.043	.034	.017	.014	.011	
4.0	.151	.109	.077	.129	.094	.067	.089	.066	.047	.051	.038	.028	.017	.013	.009	
5.0	.143	.098	.064	.123	.085	.056	.085	.059	.040	.049	.035	.024	.016	.011	.008	
6.0	.136	.089	.055	.117	.077	.048	.081	.054	.034	.047	.032	.020	.015	.010	.007	
7.0	.130	.082	.048	.111	.071	.042	.077	.050	.030	.045	.029	.018	.014	.010	.006	
8.0	.124	.076	.043	.107	.066	.037	.074	.046	.026	.043	.027	.016	.014	.009	.005	
9.0	.119	.071	.038	.102	.061	.033	.071	.043	.024	.041	.025	.014	.013	.008	.005	
10.0	.114	.066	.035	.098	.058	.030	.068	.041	.022	.040	.024	.013	.013	.008	.004	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 1
 Test Date: 2021-11-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.421
 Humidity: 65.0%
 Test Distance: 9.886m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

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	18.5	19.6	18.8	19.8	20.0	20.5	21.6	20.7	21.8	22.0
3H	18.7	19.7	19.0	20.0	20.2	20.6	21.6	20.9	21.8	22.1
4H	18.8	19.8	19.1	20.0	20.3	20.6	21.6	20.9	21.8	22.1
6H	18.9	19.8	19.3	20.1	20.4	20.6	21.5	20.9	21.8	22.0
8H	19.0	19.8	19.3	20.1	20.4	20.5	21.4	20.9	21.7	22.0
12H	19.0	19.8	19.3	20.1	20.4	20.5	21.3	20.8	21.6	22.0
4H 2H	18.5	19.5	18.8	19.8	20.0	20.4	21.3	20.7	21.6	21.8
3H	18.9	19.7	19.2	20.0	20.3	20.6	21.4	20.9	21.7	22.0
4H	19.1	19.9	19.5	20.2	20.6	20.7	21.4	21.0	21.8	22.1
6H	19.4	20.1	19.8	20.4	20.8	20.7	21.4	21.1	21.8	22.1
8H	19.5	20.1	19.9	20.5	20.9	20.7	21.3	21.1	21.7	22.1
12H	19.5	20.1	20.0	20.5	20.9	20.7	21.2	21.1	21.6	22.1
8H 4H	19.2	19.9	19.6	20.2	20.6	20.7	21.3	21.1	21.7	22.1
6H	19.7	20.2	20.1	20.6	21.1	20.8	21.3	21.3	21.8	22.2
8H	19.9	20.3	20.4	20.8	21.2	20.9	21.3	21.3	21.8	22.2
12H	20.0	20.4	20.5	20.9	21.4	20.9	21.3	21.4	21.7	22.2
12H 4H	19.2	19.8	19.7	20.2	20.6	20.7	21.2	21.1	21.6	22.1
6H	19.7	20.2	20.2	20.6	21.1	20.8	21.3	21.3	21.7	22.2
8H	20.0	20.3	20.4	20.8	21.3	20.9	21.3	21.4	21.8	22.3
Variations with the observer position at spacings:										
S = 1.0H	+ 1.5 / - 1.9					+ 1.6 / - 2.6				
1.5H	+ 1.5 / - 2.2					+ 2.5 / - 2.7				
2.0H	+ 3.0 / - 1.7					+ 3.5 / - 2.6				

CIE Pub.117, 2612 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 3.3$)Area: 0.036 m²

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 1
 Test Date: 2021-11-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.421
 Humidity: 65.0%
 Test Distance: 9.886m [K=1.0000]
 Remarks:

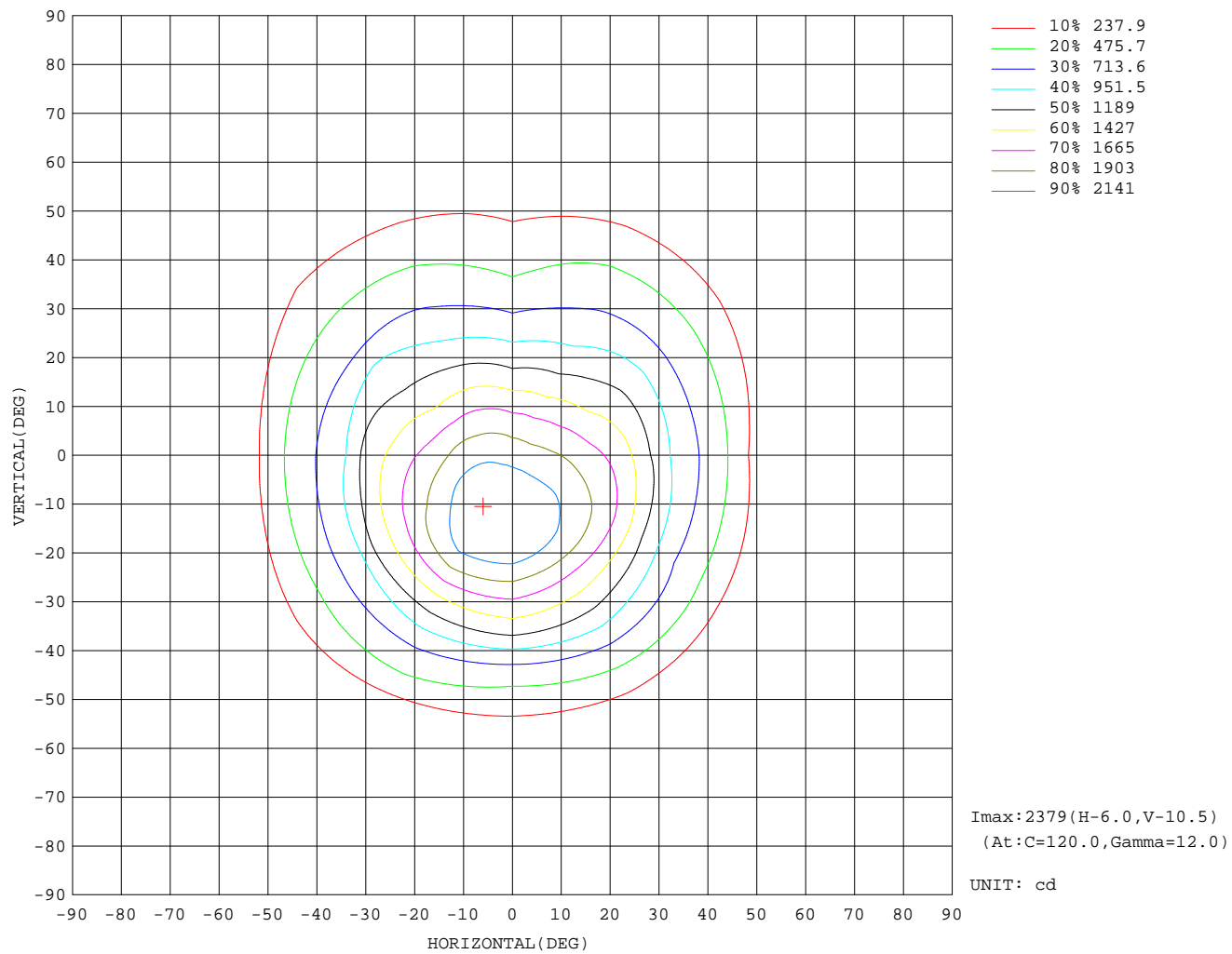
UTILIZATION FACTORS TABLE

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) $k(RI) \times RCR = 5$									
$k = 0.60$	75	67	62	74	66	62	73	66	61	57
0.80	84	76	71	83	76	71	82	75	70	65
1.00	91	83	78	90	82	78	88	83	77	72
1.25	96	89	84	95	88	84	92	87	83	77
1.50	100	93	89	98	92	88	95	91	87	81
2.00	104	98	94	102	97	93	99	95	92	85
2.50	106	101	97	104	100	96	101	97	94	87
3.00	108	104	100	106	102	99	103	99	97	89
4.00	111	107	104	109	105	103	105	102	100	92
5.00	112	109	107	110	107	105	106	104	102	93
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended				SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 1
 Test Date: 2021-11-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.421
 Humidity: 65.0%
 Test Distance: 9.886m [K=1.0000]
 Remarks:

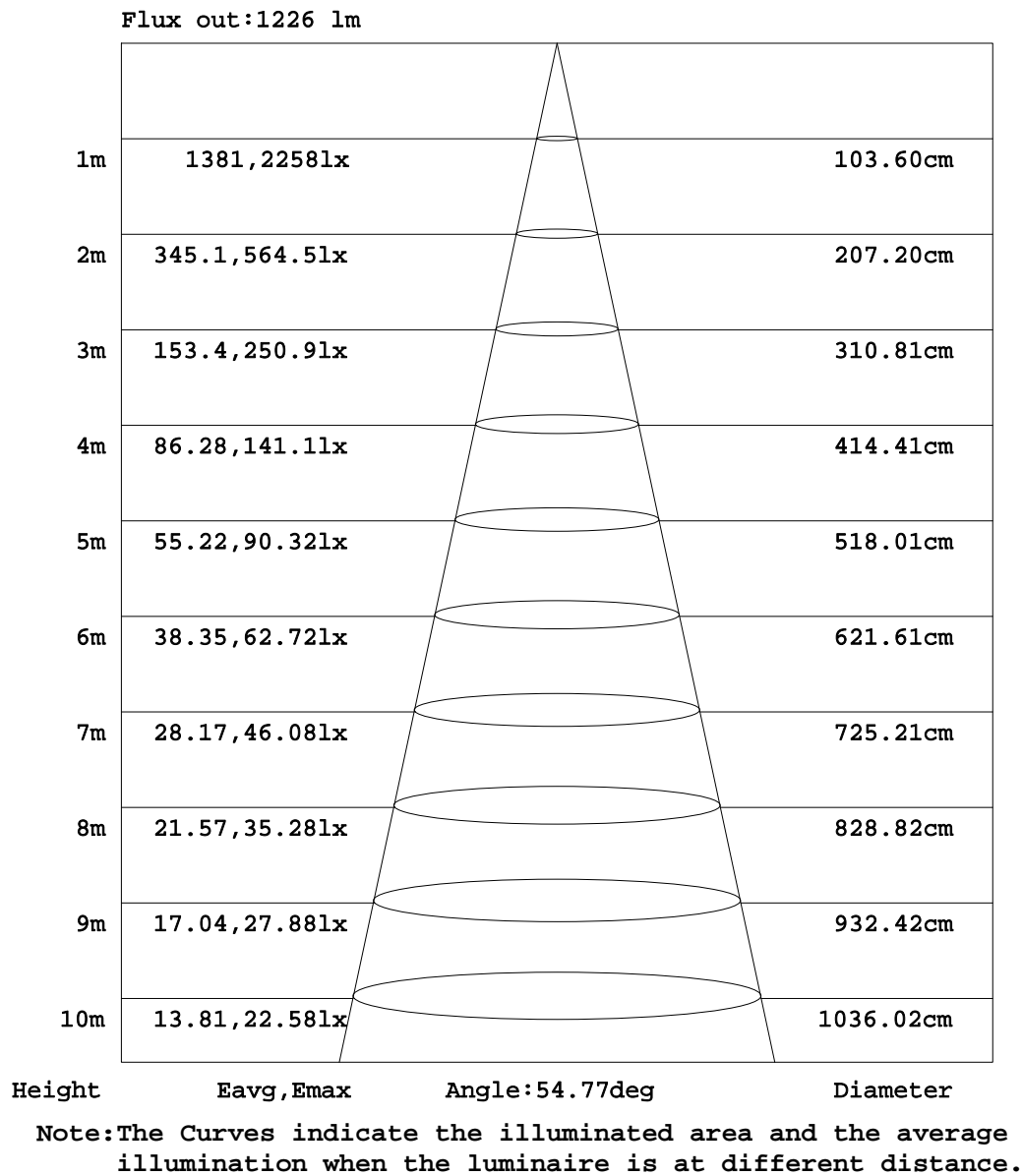
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 1
Test Date: 2021-11-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.421
Humidity: 65.0%
Test Distance: 9.886m [K=1.0000]
Remarks:

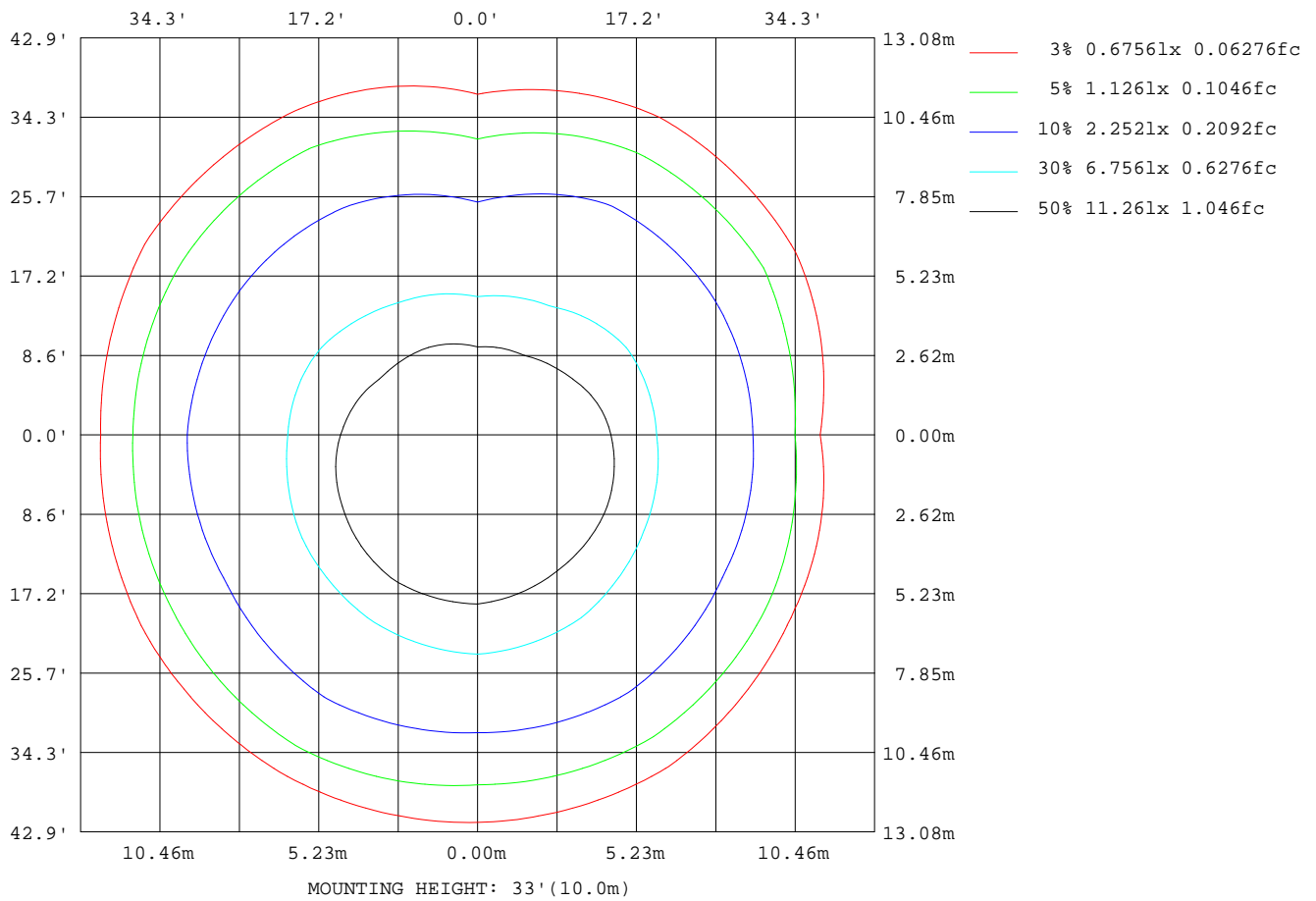
AAI Figure



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 1
 Test Date: 2021-11-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.421
 Humidity: 65.0%
 Test Distance: 9.886m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 1
 Test Date: 2021-11-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.421
 Humidity: 65.0%
 Test Distance: 9.886m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:86.400V I:0.1760A P:15.206W PF:1.0000 Freq:0Hz Lamp Flux:2611.55x1 lm		
NAME: B065 -日亜-P	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:0.04*0.9	Shielding Angle:

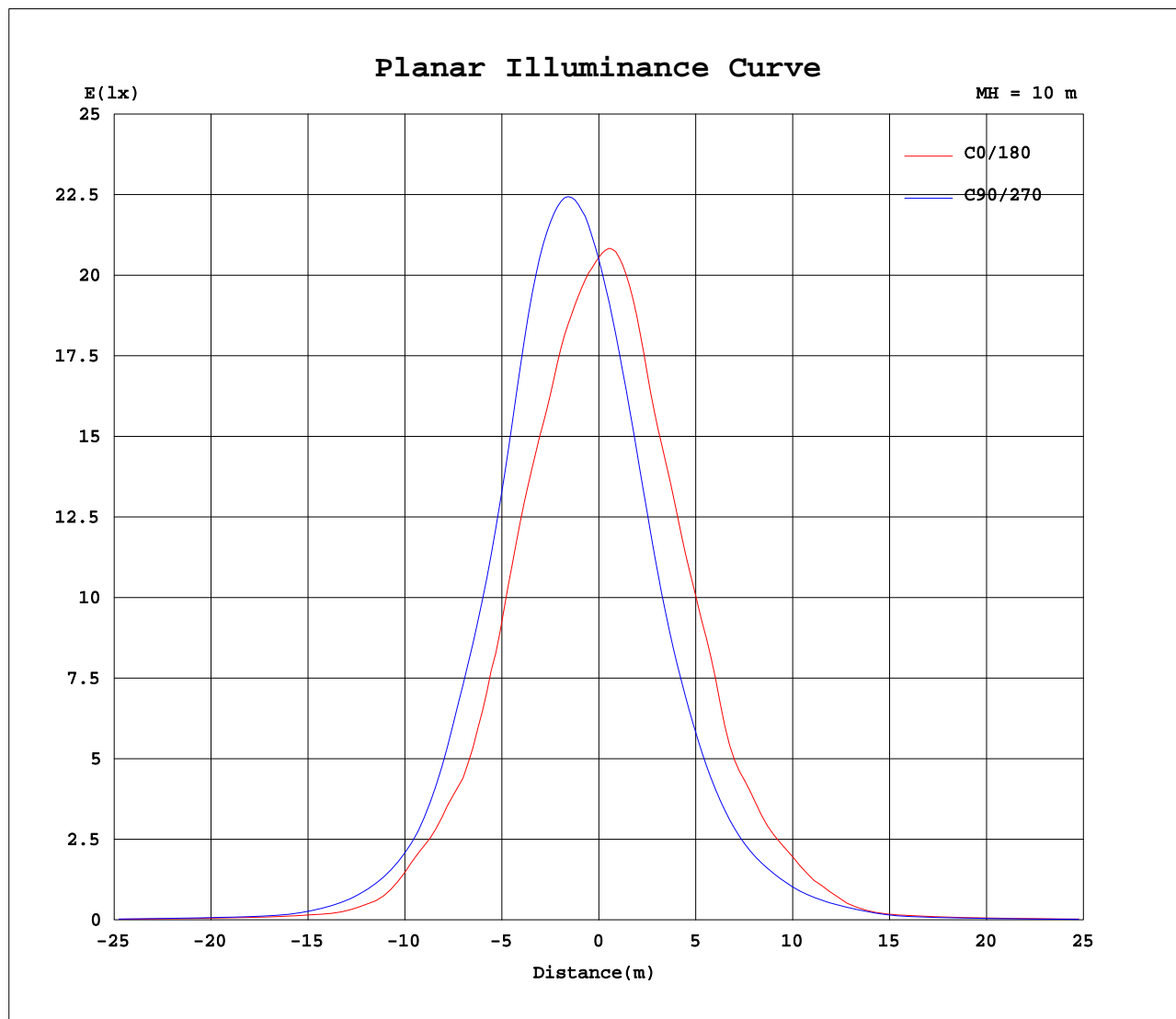
AvgL	cd/m2
L_0~180(65)av	4099
L_0~180(75)av	3780
L_0~180(85)av	4354
L_90~270(65)av	4088
L_90~270(75)av	2849
L_90~270(85)av	827
L_45(65)av	4865
L_45(75)av	4589
L_45(85)av	4956

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:1
 Test Date:2021-11-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.421
 Humidity:65.0%
 Test Distance:9.886m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 1
Test Date: 2021-11-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.421
Humidity: 65.0%
Test Distance: 9.886m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	2056	2053	2054	2048	2051	2043	2056	2053	2054	2048	2051	2043						
5	1985	2081	2170	2226	2238	2176	2096	1990	1904	1837	1839	1883						
10	1900	2084	2237	2346	2359	2205	2017	1834	1705	1596	1606	1714						
15	1759	2010	2213	2368	2369	2100	1814	1593	1473	1332	1366	1531						
20	1628	1865	2069	2259	2255	1914	1653	1377	1238	1082	1150	1358						
25	1397	1624	1773	1959	1981	1698	1460	1211	1019	874	962	1205						
30	1089	1268	1465	1633	1590	1405	1260	1066	837	681	806	1014						
35	801	939	1195	1327	1246	1080	902	860	687	516	677	788						
40	631	684	878	929	907	752	723	628	548	393	557	585						
45	418	482	597	590	639	547	555	483	424	291	410	441						
50	190	257	350	362	413	369	331	336	296	201	270	275						
55	96.0	121	178	192	189	169	124	198	151	113	140	144						
60	72.2	85.1	112	96.7	105	89.1	83.7	106	89.9	64.0	84.7	92.4						
65	59.1	68.1	83.8	74.3	83.1	72.4	65.7	73.9	66.0	50.1	65.1	69.2						
70	45.6	54.6	60.1	50.6	66.5	63.5	51.5	62.5	52.1	36.6	47.6	54.9						
75	33.2	43.7	38.7	30.2	44.7	48.8	37.2	48.2	34.9	22.9	30.8	41.8						
80	21.3	34.5	27.7	12.9	31.4	31.2	26.2	28.7	23.7	9.70	19.7	28.0						
85	11.2	14.4	14.7	2.74	13.7	21.2	16.1	19.5	12.3	2.45	10.2	11.8						
90	6.08	6.73	4.02	0.33	7.34	9.31	9.14	8.88	5.78	0.45	3.34	5.06						
95	3.36	4.55	1.78	0.39	2.10	4.47	4.93	4.42	2.11	0.50	1.79	2.88						
100	2.37	2.99	1.35	0.49	1.33	2.14	2.48	2.09	1.60	0.77	1.44	1.86						
105	2.59	2.70	1.51	0.66	1.65	1.69	1.88	1.70	1.90	1.19	1.85	1.72						
110	3.42	2.79	1.38	0.94	1.17	1.91	1.98	1.95	1.88	1.85	1.91	2.19						
115	3.85	2.76	1.55	1.33	1.38	2.46	2.50	2.62	2.42	2.72	2.57	3.03						
120	4.57	2.84	2.00	1.85	1.88	2.52	3.42	3.23	3.36	3.84	3.55	3.47						
125	4.77	3.30	2.67	2.48	2.51	2.79	3.64	3.85	4.55	5.18	4.81	5.39						
130	5.10	3.99	3.43	3.25	3.26	3.57	4.41	5.07	6.00	6.67	6.22	5.46						
135	5.37	4.74	4.30	4.15	4.12	4.46	5.61	6.42	7.54	8.21	7.70	6.79						
140	6.50	5.83	5.33	5.14	5.08	5.47	6.85	7.90	9.10	9.75	9.19	8.28						
145	7.91	7.07	6.49	6.28	6.20	6.55	8.20	9.39	10.6	11.2	10.6	9.75						
150	9.33	8.43	7.80	7.55	7.49	7.74	9.65	10.8	12.1	12.6	11.9	11.1						
155	10.9	9.92	9.17	8.90	8.85	9.09	11.1	12.3	13.4	13.7	13.1	12.3						
160	12.3	11.4	10.6	10.3	10.3	10.5	12.5	13.5	14.4	14.6	14.0	13.4						
165	13.7	12.8	12.0	11.7	11.7	11.9	14.0	14.5	15.2	15.3	14.8	14.2						
170	14.9	14.1	13.4	13.1	13.0	13.2	15.2	15.3	15.8	15.7	15.4	14.8						
175	15.7	15.2	14.6	14.3	14.2	14.3	15.9	15.8	15.8	15.7	15.5	15.2						
180	16.2	15.9	15.5	15.4	15.2	15.1	16.2	15.9	15.6	15.4	15.3	15.1						

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 1
 Test Date: 2021-11-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.421
 Humidity: 65.0%
 Test Distance: 9.886m [K=1.0000]
 Remarks: