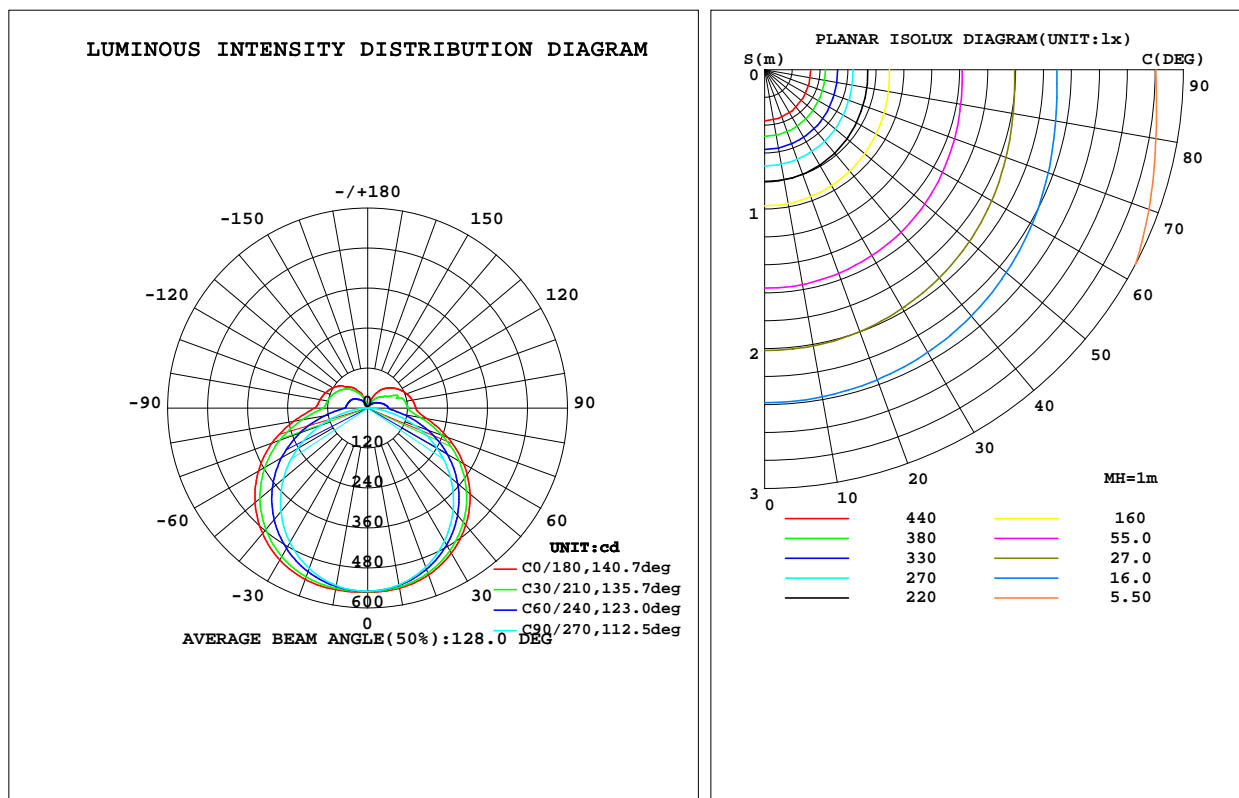


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.2V I:0.1669A P:19.70W PF:0.9815 Lamp Flux:2676.2x1 lm		
NAME: TB4-20W-40S	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 4尺	SERIAL No.:1
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 117.24 lm/W			
MODEL	TB4-20W-40S	I _{max} (cd)	553.6	S/MH(C0/180)	1.42
NOMINAL POWER(W)	20	LOR(%)	86.3	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	100-277	TOTAL FLUX(lm)	2309.1	η UP,DN(C0-180)	6.8,35.9
NOMINAL FLUX(lm)	2676.2	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	7.0,36.6
LAMPS INSIDE	1	η up(%)	13.8	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	72.5	CIBSE SHR MAX	1.55



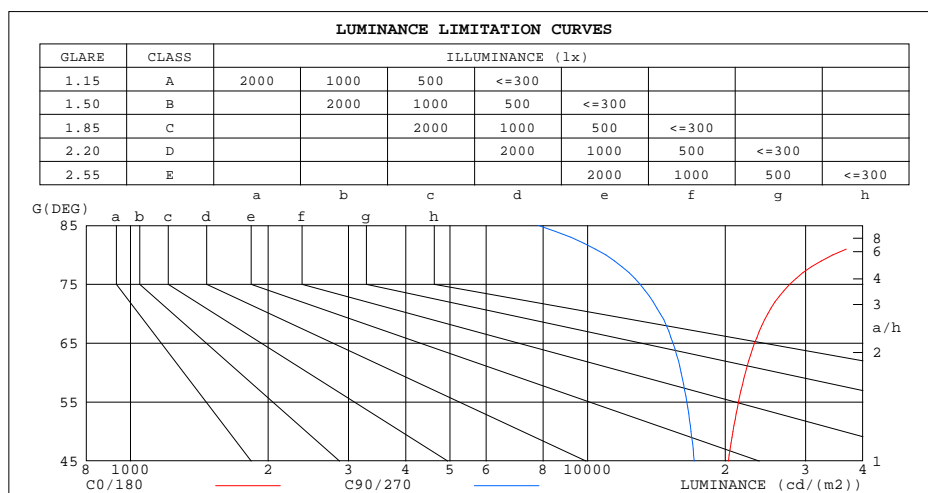
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2018-07-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:8.370m [K=1.0000]
Remarks:

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	548.9	542.9	538.5	544.4	553.5	546.3	540.8	543.3	0- 10	52.25	52.25	2.26,1.95
20	533.0	521.8	508.3	528.2	547.3	531.3	512.4	523.3	10- 20	151.7	204.0	8.83,7.62
30	502.6	485.4	460.8	498.2	527.0	501.7	466.5	488.1	20- 30	235.4	439.3	19,16.4
40	458.2	435.4	399.0	453.4	491.1	457.6	405.0	438.3	30- 40	293.3	732.6	31.7,27.4
50	401.0	372.8	324.8	395.8	441.1	399.8	330.4	375.6	40- 50	318.8	1051	45.5,39.3
60	332.2	299.4	240.3	326.9	378.8	330.3	243.3	301.4	50- 60	308.8	1360	58.9,50.8
70	254.4	217.2	148.1	247.6	305.4	250.4	149.5	218.5	60- 70	264.4	1625	70.4,60.7
80	179.3	137.5	57.14	166.1	224.7	168.0	56.53	137.8	70- 80	193.6	1818	78.7,67.9
90	145.1	95.91	1.899	105.4	160.3	105.8	1.309	98.94	80- 90	122.2	1940	84,72.5
100	136.8	88.21	0.8610	95.81	145.7	96.71	0.8566	89.61	90-100	94.46	2035	88.1,76
110	125.5	73.21	1.328	88.91	135.0	89.78	1.348	75.50	100-110	83.75	2119	91.7,79.2
120	111.4	52.75	1.861	80.30	121.5	81.31	1.876	57.64	110-120	69.27	2188	94.7,81.8
130	94.96	40.01	2.394	70.24	105.4	71.14	2.419	43.53	120-130	52.30	2240	97,83.7
140	76.22	27.60	2.849	56.50	82.49	53.26	2.878	30.33	130-140	35.66	2276	98.6,85
150	51.80	17.48	3.185	39.74	59.67	38.75	3.261	19.15	140-150	21.00	2297	99.5,85.8
160	11.04	4.670	3.578	19.21	35.61	19.85	3.560	4.671	150-160	9.488	2306	99.9,86.2
170	3.728	3.733	3.803	5.674	4.687	5.647	3.771	3.677	160-170	2.437	2309	100,86.3
180	3.738	3.738	3.887	3.808	3.738	3.766	3.887	3.799	170-180	0.3996	2309	100,86.3
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		



LUMINANCE cd/(m2)		
G(°)	C0/180	C90/270
85	58883	7802
80	34412	10969
75	27683	13033
70	24790	14434
65	23192	15388
60	22147	16018
55	21384	16486
50	20797	16843
45	20323	17123

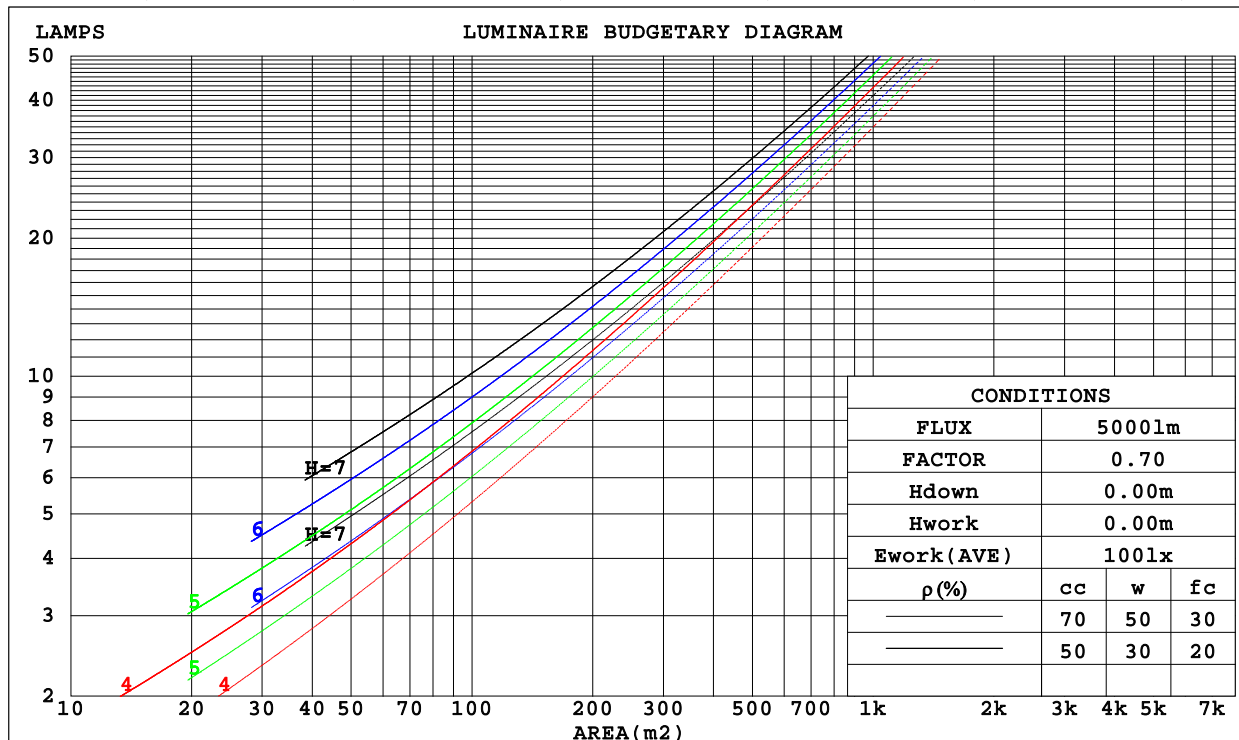
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2018-07-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.291
 Humidity: 65.0%
 Test Distance: 8.370m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.2V I:0.1669A P:19.70W PF:0.9815 Lamp Flux:2676.2x1 lm		
NAME: TB4-20W-40S	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 4尺	SERIAL No.:1
MFR.: EVERFINE	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			Coefficients of Utilization(CU)												
0.0	.99	.99	.99	.96	.96	.96	.88	.88	.88	.82	.82	.82	.75	.75	.75	.73
1.0	.84	.80	.76	.81	.77	.74	.75	.72	.69	.69	.66	.64	.64	.62	.60	.57
2.0	.72	.66	.61	.70	.64	.59	.64	.59	.55	.59	.55	.52	.55	.52	.49	.46
3.0	.63	.55	.49	.61	.54	.48	.56	.50	.46	.52	.47	.43	.48	.44	.41	.38
4.0	.55	.47	.41	.53	.46	.40	.49	.43	.38	.46	.41	.36	.42	.38	.34	.32
5.0	.49	.41	.35	.47	.40	.34	.44	.38	.33	.41	.35	.31	.38	.33	.30	.27
6.0	.44	.36	.30	.43	.35	.30	.40	.33	.28	.37	.31	.27	.34	.29	.26	.24
7.0	.40	.32	.27	.38	.31	.26	.36	.30	.25	.33	.28	.24	.31	.26	.23	.21
8.0	.36	.29	.24	.35	.28	.23	.33	.27	.22	.31	.25	.21	.29	.24	.20	.18
9.0	.33	.26	.21	.32	.25	.21	.30	.24	.20	.28	.23	.19	.26	.22	.18	.16
10.0	.30	.24	.19	.29	.23	.19	.28	.22	.18	.26	.21	.17	.24	.20	.16	.15



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2018-07-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.291
 Humidity: 65.0%
 Test Distance: 8.370m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:120.2V I:0.1669A P:19.70W PF:0.9815 Lamp Flux:2676.2x1 lm		
NAME: TB4-20W-40S	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 4尺	SERIAL No.:1
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

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	.308	.175	.055	.297	.170	.054	.278	.159	.051	.260	.150	.048	.244	.141	.046	
2.0	.274	.150	.046	.264	.146	.045	.247	.137	.043	.231	.129	.041	.216	.122	.038	
3.0	.247	.131	.039	.238	.128	.038	.222	.121	.037	.208	.114	.035	.194	.107	.033	
4.0	.224	.116	.034	.216	.113	.033	.202	.107	.032	.189	.101	.031	.176	.096	.029	
5.0	.205	.104	.030	.198	.102	.030	.185	.096	.028	.173	.091	.027	.161	.086	.026	
6.0	.188	.094	.027	.182	.092	.026	.170	.087	.025	.159	.083	.024	.149	.078	.023	
7.0	.174	.086	.024	.169	.084	.024	.158	.080	.023	.148	.076	.022	.138	.072	.021	
8.0	.162	.079	.022	.157	.077	.022	.147	.073	.021	.138	.070	.020	.129	.066	.019	
9.0	.151	.073	.020	.146	.071	.020	.137	.068	.019	.129	.065	.018	.121	.061	.018	
10.0	.142	.068	.019	.137	.066	.019	.129	.063	.018	.121	.060	.017	.113	.057	.016	

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 Ceiling Cavity Exitance Coefficients(CCEC)															
0.0	.269	.269	.269	.230	.230	.230	.157	.157	.157	.090	.090	.090	.029	.029	.029	
1.0	.264	.240	.219	.226	.206	.188	.155	.142	.130	.089	.082	.076	.029	.026	.024	
2.0	.258	.220	.188	.221	.190	.163	.152	.131	.114	.087	.076	.067	.028	.025	.022	
3.0	.252	.206	.169	.216	.178	.147	.148	.123	.103	.086	.072	.061	.027	.023	.020	
4.0	.245	.195	.157	.210	.168	.136	.145	.117	.096	.084	.069	.057	.027	.022	.019	
5.0	.239	.186	.148	.205	.161	.129	.141	.113	.091	.082	.066	.054	.026	.022	.018	
6.0	.232	.179	.141	.200	.155	.123	.138	.109	.087	.080	.064	.052	.026	.021	.017	
7.0	.226	.174	.137	.195	.151	.119	.135	.106	.085	.078	.062	.050	.025	.020	.017	
8.0	.221	.169	.133	.190	.147	.116	.132	.103	.082	.077	.061	.049	.025	.020	.016	
9.0	.215	.165	.131	.186	.143	.114	.129	.101	.081	.075	.059	.048	.024	.019	.016	
10.0	.211	.161	.128	.181	.140	.112	.126	.099	.080	.073	.058	.048	.024	.019	.016	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2018-07-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:8.370m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.2V I:0.1669A P:19.70W PF:0.9815 Lamp Flux:2676.2x1 lm										
NAME: TB4-20W-40S					TYPE:LED			WEIGHT:		
SPEC.:					DIM.: 4尺			SERIAL No.:1		
MFR.: EVERFINE					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	22.7	24.1	23.2	24.6	25.1	21.4	22.8	21.9	23.3	23.8
3H	24.9	26.1	25.4	26.6	27.2	22.9	24.1	23.4	24.6	25.2
4H	26.0	27.2	26.5	27.7	28.3	23.4	24.6	24.0	25.2	25.7
6H	27.1	28.2	27.7	28.8	29.4	23.8	24.9	24.4	25.5	26.1
8H	27.7	28.8	28.3	29.4	30.0	23.9	25.0	24.5	25.5	26.2
12H	28.5	29.5	29.0	30.1	30.7	23.9	25.0	24.5	25.5	26.2
4H 2H	23.3	24.5	23.8	25.0	25.6	22.3	23.5	22.8	24.0	24.6
3H	25.6	26.7	26.2	27.3	27.9	24.0	25.0	24.6	25.6	26.2
4H	26.9	27.9	27.5	28.5	29.1	24.7	25.7	25.3	26.3	26.9
6H	28.2	29.1	28.9	29.7	30.4	25.2	26.1	25.8	26.7	27.4
8H	29.0	29.8	29.6	30.4	31.1	25.4	26.2	26.0	26.8	27.5
12H	29.9	30.6	30.5	31.2	32.0	25.5	26.2	26.1	26.8	27.6
8H 4H	27.2	28.0	27.8	28.6	29.3	25.4	26.2	26.0	26.8	27.5
6H	28.8	29.5	29.5	30.1	30.9	26.1	26.8	26.8	27.5	28.2
8H	29.7	30.3	30.4	31.0	31.8	26.5	27.0	27.1	27.7	28.5
12H	30.8	31.4	31.5	32.1	32.9	26.7	27.2	27.4	27.9	28.7
12H 4H	27.2	27.9	27.8	28.6	29.3	25.5	26.3	26.2	26.9	27.6
6H	28.9	29.5	29.6	30.2	30.9	26.5	27.1	27.1	27.7	28.5
8H	29.9	30.4	30.6	31.1	31.9	26.9	27.4	27.6	28.1	28.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.4				

CIE Pub.117 Corrected 2676 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.4)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2018-07-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:8.370m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.2V I:0.1669A P:19.70W PF:0.9815 Lamp Flux:2676.2x1 lm		
NAME: TB4-20W-40S	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 4尺	SERIAL No.:1
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

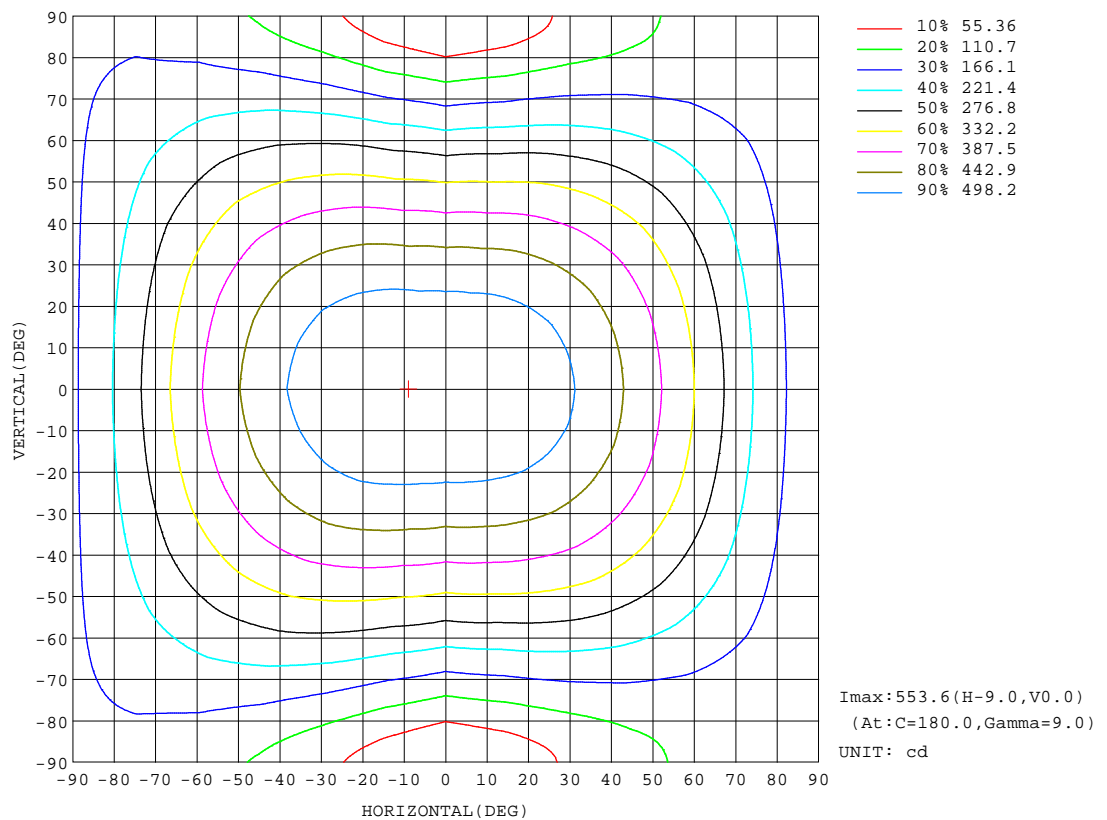
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	43	32	26	42	32	26	40	31	25	20
0.80	51	40	33	50	39	33	47	38	32	25
1.00	58	47	40	56	46	40	53	47	39	31
1.25	64	53	46	62	52	46	58	50	44	36
1.50	68	58	51	66	57	50	62	54	49	40
2.00	74	66	59	72	64	58	67	61	55	46
2.50	78	70	64	75	68	62	70	64	59	49
3.00	81	74	68	78	72	66	73	68	63	52
4.00	85	79	74	82	77	72	76	72	68	56
5.00	88	82	78	84	80	75	78	74	71	59
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2018-07-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:8.370m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.2V I:0.1669A P:19.70W PF:0.9815 Lamp Flux:2676.2x1 lm		
NAME: TB4-20W-40S	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 4尺	SERIAL No.:1
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

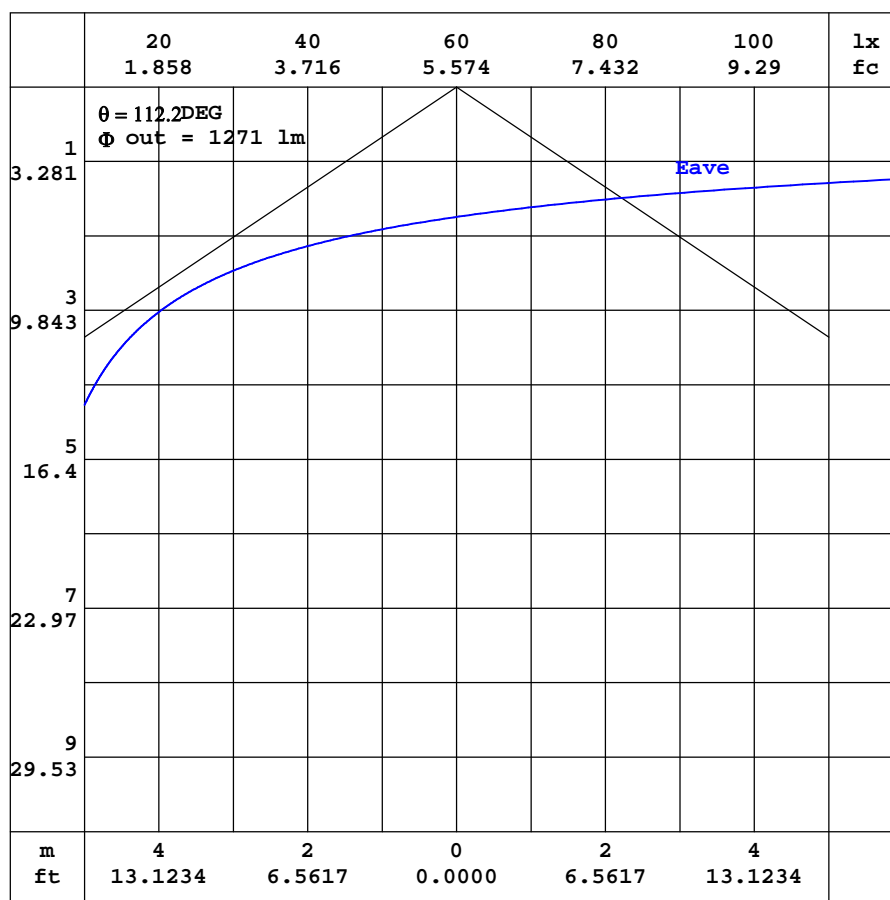


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2018-07-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:8.370m [K=1.0000]
Remarks:

AAI CURVES

Test:U:120.2V I:0.1669A P:19.70W PF:0.9815 Lamp Flux:2676.2x1 lm		
NAME: TB4-20W-40S	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 4尺	SERIAL No.:1
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:



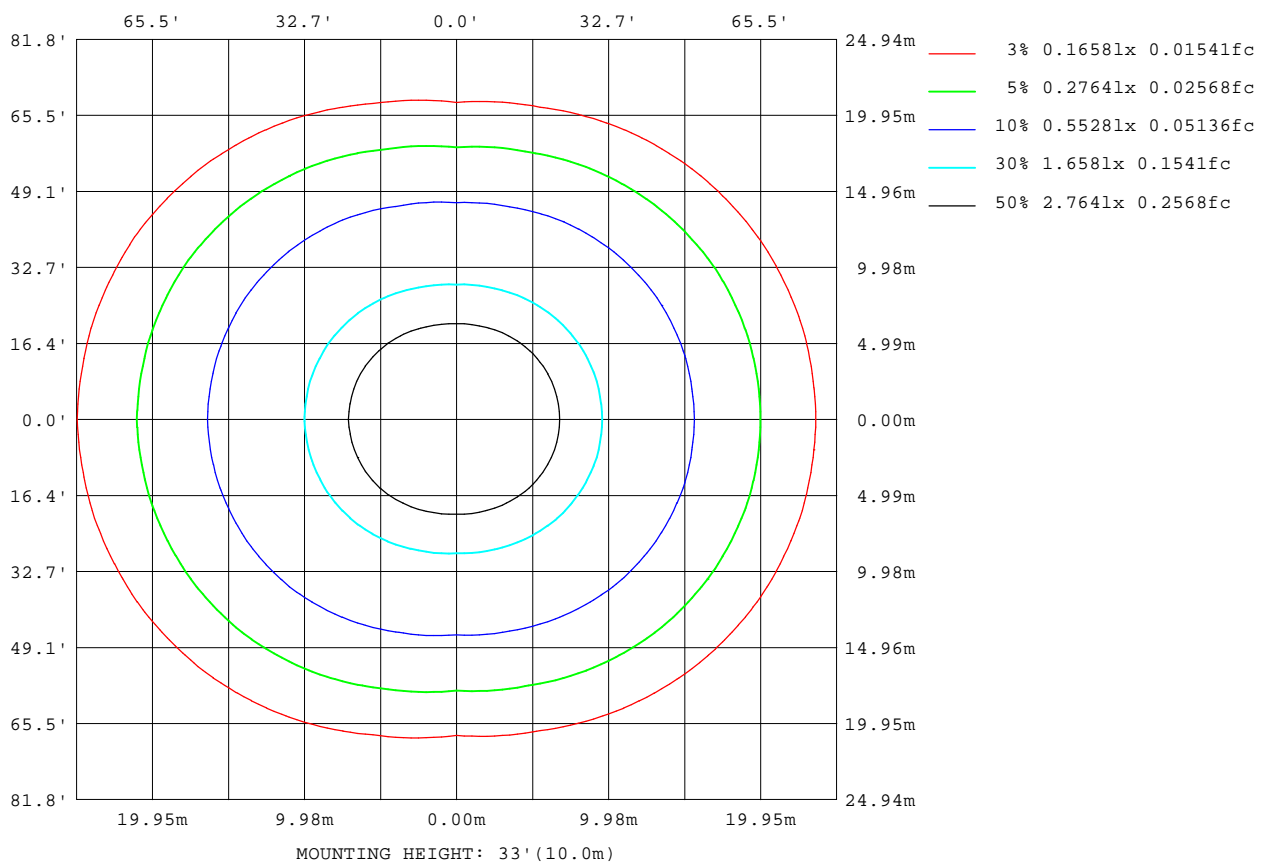
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2018-07-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.291
 Humidity: 65.0%
 Test Distance: 8.370m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.2V I:0.1669A P:19.70W PF:0.9815 Lamp Flux:2676.2x1 lm		
NAME: TB4-20W-40S	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 4尺	SERIAL No.:1
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2018-07-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.291
Humidity: 65.0%
Test Distance: 8.370m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.2V I:0.1669A P:19.70W PF:0.9815 Lamp Flux:2676.2x1 lm		
NAME: TB4-20W-40S	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 4尺	SERIAL No.:1
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

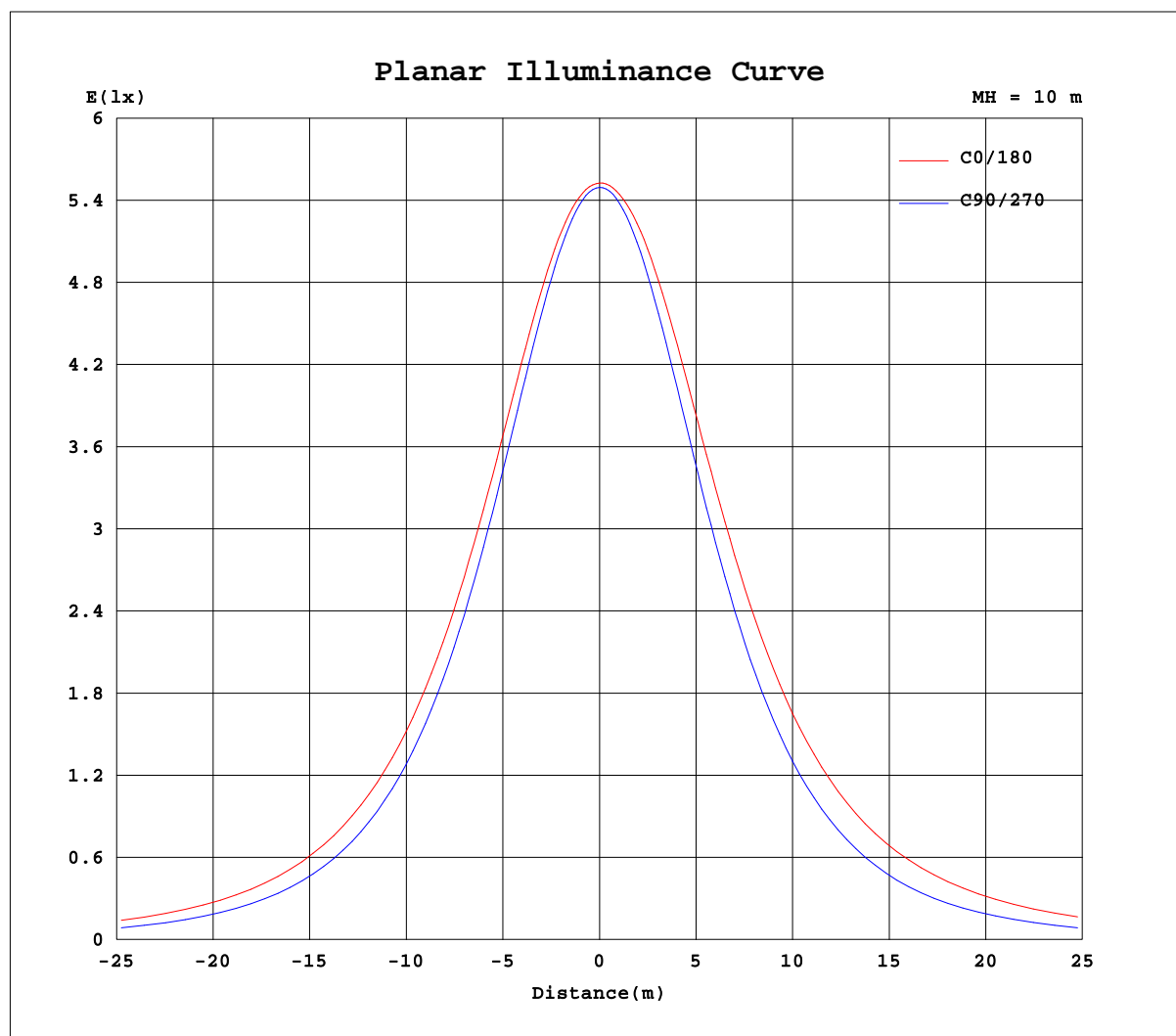
AvgL	cd/m2
L_0~180(65)av	25131
L_0~180(75)av	30864
L_0~180(85)av	65350
L_90~270(65)av	15467
L_90~270(75)av	13065
L_90~270(85)av	7577
L_45(65)av	21673
L_45(75)av	24745
L_45(85)av	45656

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2018-07-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:8.370m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2018-07-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.291
Humidity: 65.0%
Test Distance: 8.370m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.2V I:0.1669A P:19.70W PF:0.9815 Lamp Flux:2676.2x1 lm		
NAME: TB4-20W-40S	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 4尺	SERIAL No.:1
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	553	552	551	550	550	550	550	550	549	549	550	550	553	552	551	550	550	550	550
5	552	551	549	548	547	547	547	547	547	548	549	550	553	552	551	550	549	548	548
10	549	548	546	543	541	539	538	540	541	544	547	549	553	551	549	546	544	541	541
15	543	541	538	534	530	527	526	528	532	538	543	547	552	550	546	540	535	530	529
20	533	532	527	522	515	510	508	512	519	528	536	542	547	545	539	531	523	515	512
25	520	518	512	506	497	490	487	492	502	515	525	533	539	536	529	518	507	495	492
30	503	501	494	485	474	465	461	468	482	498	511	520	527	523	515	502	487	472	467
35	482	480	472	462	449	438	431	441	458	477	492	503	511	506	497	482	464	445	438
40	458	456	447	435	420	406	399	411	431	453	470	483	491	486	476	458	437	414	405
45	431	428	418	406	388	372	363	378	401	426	445	459	468	462	451	430	407	381	369
50	401	398	387	373	353	335	325	342	368	396	417	432	441	435	422	400	374	344	330
55	368	365	353	337	316	296	284	303	333	363	385	402	412	405	391	366	338	305	289
60	332	329	316	299	276	252	240	261	294	327	351	369	379	372	357	330	299	263	243
65	294	291	277	258	234	209	195	219	254	289	314	333	343	336	320	291	257	219	197
70	254	250	237	217	191	164	148	175	212	248	275	295	305	297	280	250	215	174	149
75	215	210	197	176	148	119	101	130	170	206	235	254	264	258	239	209	171	128	102
80	179	174	160	137	108	77.2	57.1	87.7	128	166	195	214	225	218	198	168	130	85.2	56.5
85	154	148	132	108	76.4	42.9	20.4	51.6	92.3	130	159	178	188	181	162	131	93.0	48.7	19.2
90	145	139	122	95.9	63.0	26.3	1.90	30.2	69.5	105	133	152	160	154	135	106	69.6	28.5	1.31
95	141	135	118	92.6	60.2	24.4	1.28	27.6	65.1	98.9	125	143	150	144	127	99.6	65.2	26.7	0.86
100	137	131	114	88.2	53.8	22.9	0.86	26.6	63.0	95.8	122	138	146	140	123	96.7	63.2	26.0	0.86
105	132	126	110	81.8	50.5	21.3	1.10	25.8	60.7	92.5	117	134	141	135	119	93.5	61.1	25.4	1.10
110	125	120	93.5	73.2	43.9	17.5	1.33	23.9	58.4	88.9	113	128	135	129	114	89.8	58.9	23.8	1.35
115	119	114	92.2	59.1	37.4	14.3	1.61	19.5	55.8	84.8	107	122	129	123	109	85.7	56.5	19.9	1.60
120	111	107	70.1	52.7	32.9	11.9	1.86	17.3	53.1	80.3	102	115	121	116	103	81.3	53.3	18.2	1.88
125	103	91.3	62.0	46.2	28.7	9.50	2.15	14.2	49.6	75.5	95.2	108	114	109	96.6	76.5	48.8	16.8	2.15
130	95.0	81.8	53.9	40.0	23.9	7.06	2.39	10.6	42.9	70.2	88.3	100	105	101	89.7	71.1	42.8	14.7	2.42
135	85.8	65.5	46.4	34.4	20.1	4.45	2.62	7.34	38.9	64.6	81.0	91.7	90.8	91.6	82.3	64.5	37.3	12.1	2.65
140	76.2	49.8	39.0	27.6	16.3	2.92	2.85	4.84	33.2	56.5	73.2	82.7	82.5	80.6	71.7	53.3	33.0	9.32	2.88
145	65.7	40.5	30.2	22.2	12.5	3.07	3.02	5.59	26.6	47.5	62.8	73.1	74.2	71.7	61.2	44.3	27.2	7.15	3.08
150	51.8	29.1	23.0	17.5	7.53	3.22	3.19	5.43	19.1	39.7	53.5	60.7	59.7	59.9	51.2	38.8	21.4	5.66	3.26
155	35.8	19.4	16.3	11.2	3.52	3.39	3.36	4.64	12.3	30.2	43.8	50.3	51.3	47.0	41.1	29.9	14.4	4.60	3.42
160	11.0	10.6	8.59	4.67	3.50	3.56	3.58	4.08	8.51	19.2	31.3	38.9	35.6	37.0	30.8	19.9	9.02	3.96	3.56
165	3.96	4.27	3.70	3.66	3.61	3.68	3.72	3.86	5.77	10.3	17.4	24.9	12.7	23.6	18.8	10.6	5.83	3.72	3.69
170	3.73	3.81	3.71	3.73	3.69	3.76	3.80	3.83	4.22	5.67	7.85	10.5	4.69	10.5	8.35	5.65	4.10	3.72	3.77
175	3.74	3.74	3.74	3.74	3.74	3.82	3.87	3.83	3.88	3.89	4.10	4.24	3.73	4.33	4.09	3.84	3.78	3.74	3.85
180	3.74	3.75	3.74	3.74	3.75	3.82	3.89	3.83	3.84	3.81	3.81	3.80	3.74	3.74	3.75	3.77	3.77	3.81	3.89

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2018-07-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:8.370m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.2V I:0.1669A P:19.70W PF:0.9815 Lamp Flux:2676.2x1 lm		
NAME: TB4-20W-40S	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 4尺	SERIAL No.:1
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345													
0	550	549	549	550	550													
5	547	548	548	548	549													
10	541	542	543	545	546													
15	529	532	535	539	540													
20	513	519	523	528	531													
25	494	501	508	514	517													
30	470	479	488	497	500													
35	442	454	465	475	480													
40	411	425	438	450	456													
45	377	394	408	422	429													
50	339	359	376	391	398													
55	299	321	340	356	365													
60	256	280	301	320	329													
65	211	237	261	280	291													
70	165	194	219	239	251													
75	119	150	177	198	211													
80	76.6	110	138	161	175													
85	42.5	78.2	109	134	148													
90	28.4	66.1	98.9	124	138													
95	25.4	60.8	89.8	119	135													
100	24.2	56.9	89.6	107	125													
105	21.8	53.1	80.6	110	118													
110	18.7	46.7	75.5	84.5	119													
115	15.3	41.0	64.1	92.7	113													
120	12.5	36.4	57.6	80.9	103													
125	9.40	31.6	51.0	68.1	84.6													
130	6.17	26.1	43.5	57.3	76.1													
135	3.73	22.1	36.5	49.1	68.0													
140	2.91	17.5	30.3	42.6	52.1													
145	3.05	12.9	24.8	34.5	43.0													
150	3.21	7.23	19.1	26.9	32.5													
155	3.37	3.67	11.4	18.1	21.2													
160	3.50	3.55	4.67	8.38	10.5													
165	3.62	3.65	3.64	3.72	3.92													
170	3.71	3.72	3.68	3.74	3.76													
175	3.76	3.78	3.73	3.77	3.75													
180	3.81	3.83	3.80	3.79	3.79													

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2018-07-07

γ Range: 0 - 180DEG
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