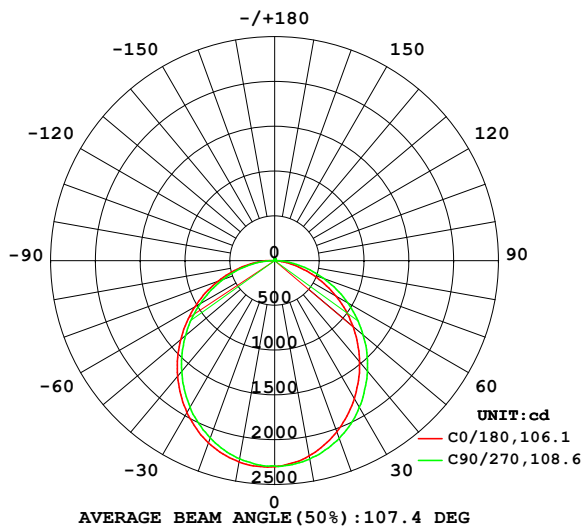


LUMINAIRE PHOTOMETRIC TEST REPORT

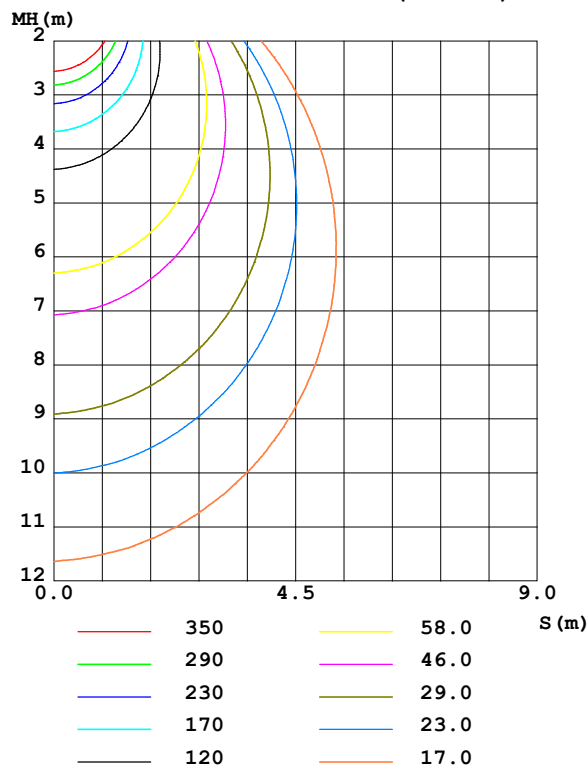
Test:U:120.11V I:0.4026A P:48.107W PF:0.9948 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6302.77x1 lm		
NAME: DB77E-4-50W-A5C3	TYPE: 50W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 1.21*0.06	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 131.02 lm/W			
MODEL	DB77E-4-50W-A5C3	I _{max} (cd)	2306	S/MH(C0/180)	1.16
NOMINAL POWER(W)	50	LOR(%)	100.0	S/MH(C90/270)	1.23
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	6302.8	η UP,DN(C0-180)	0.4,48.7
NOMINAL FLUX(lm)	6302.77	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.5,50.3
LAMPS INSIDE	1	η up (%)	1.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down (%)	99.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2023-07-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.680m [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	2215	2223	2249	2272	2284	2273	2246	2220	0- 10	216.8	216.8	3.44,3.44
20	2034	2059	2111	2147	2164	2146	2108	2057	10- 20	615.9	832.7	13.2,13.2
30	1780	1817	1892	1942	1959	1937	1889	1813	20- 30	920.5	1753	27.8,27.8
40	1477	1521	1612	1669	1687	1672	1615	1524	30- 40	1090	2843	45.1,45.1
50	1143	1188	1291	1351	1370	1356	1299	1195	40- 50	1110	3953	62.7,62.7
60	789.7	836.1	941.1	1005	1027	1018	958.8	849.2	50- 60	986.0	4940	78.4,78.4
70	441.5	483.7	584.7	645.9	672.4	666.8	609.5	502.0	60- 70	743.6	5683	90.2,90.2
80	134.4	165.4	250.6	304.6	335.1	331.4	281.7	186.9	70- 80	431.0	6114	97,97
90	2.785	2.773	3.930	24.29	49.84	46.49	15.07	4.498	80- 90	127.2	6241	99,99
100	4.200	4.142	4.004	3.552	4.989	5.553	6.277	6.392	90-100	6.126	6247	99.1,99.1
110	5.938	5.860	5.818	5.189	6.976	7.672	8.519	8.538	100-110	6.169	6254	99.2,99.2
120	7.905	8.081	7.844	7.007	9.105	9.885	10.73	10.68	110-120	7.758	6261	99.3,99.3
130	10.06	10.08	10.06	9.070	11.28	12.08	12.88	12.82	120-130	8.893	6270	99.5,99.5
140	12.32	12.46	12.37	11.38	13.52	14.38	14.94	14.93	130-140	9.388	6280	99.6,99.6
150	14.49	14.66	14.50	13.64	15.58	16.26	16.63	16.61	140-150	8.956	6289	99.8,99.8
160	16.52	16.60	16.41	16.37	17.21	17.69	17.84	17.74	150-160	7.456	6296	99.9,99.9
170	18.25	18.14	17.91	17.67	18.49	18.62	18.58	18.40	160-170	4.979	6301	100,100
180	19.15	18.99	18.84	18.62	19.19	19.04	18.87	18.67	170-180	1.764	6303	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 3405.4 lm

%lum = 54.0%

%lamp = 54.0%

Conical surface Flux(130deg): 5347.5 lm

%lum = 84.8%

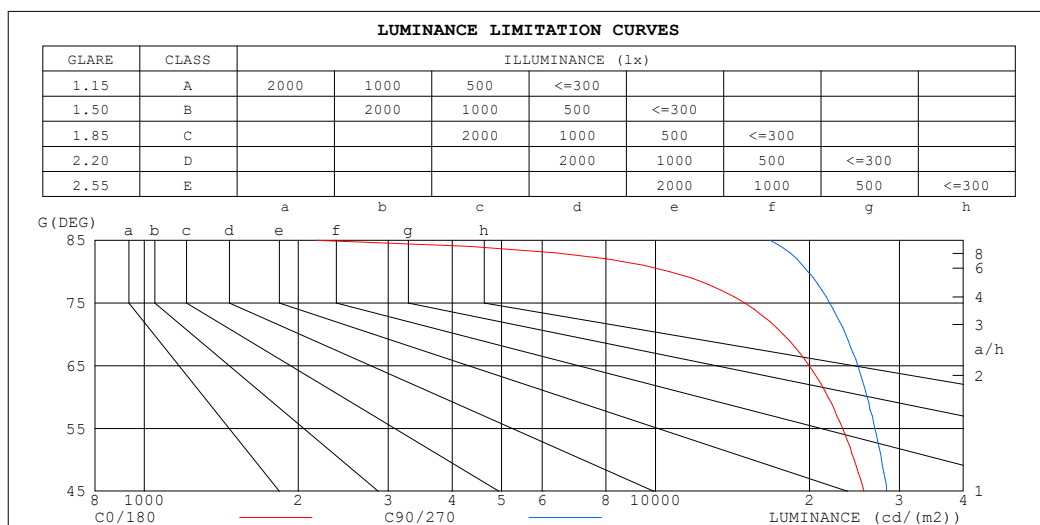
%lamp = 84.8%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2023-07-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.680m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.11V I:0.4026A P:48.107W PF:0.9948 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6302.77x1 lm		
NAME: DB77E-4-50W-A5C3	TYPE: 50W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 1.21*0.06	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2164	16762
80	10658	19876
75	14943	21918
70	17780	23546
65	19988	24885
60	21754	25926
55	23247	26853
50	24483	27667
45	25565	28338

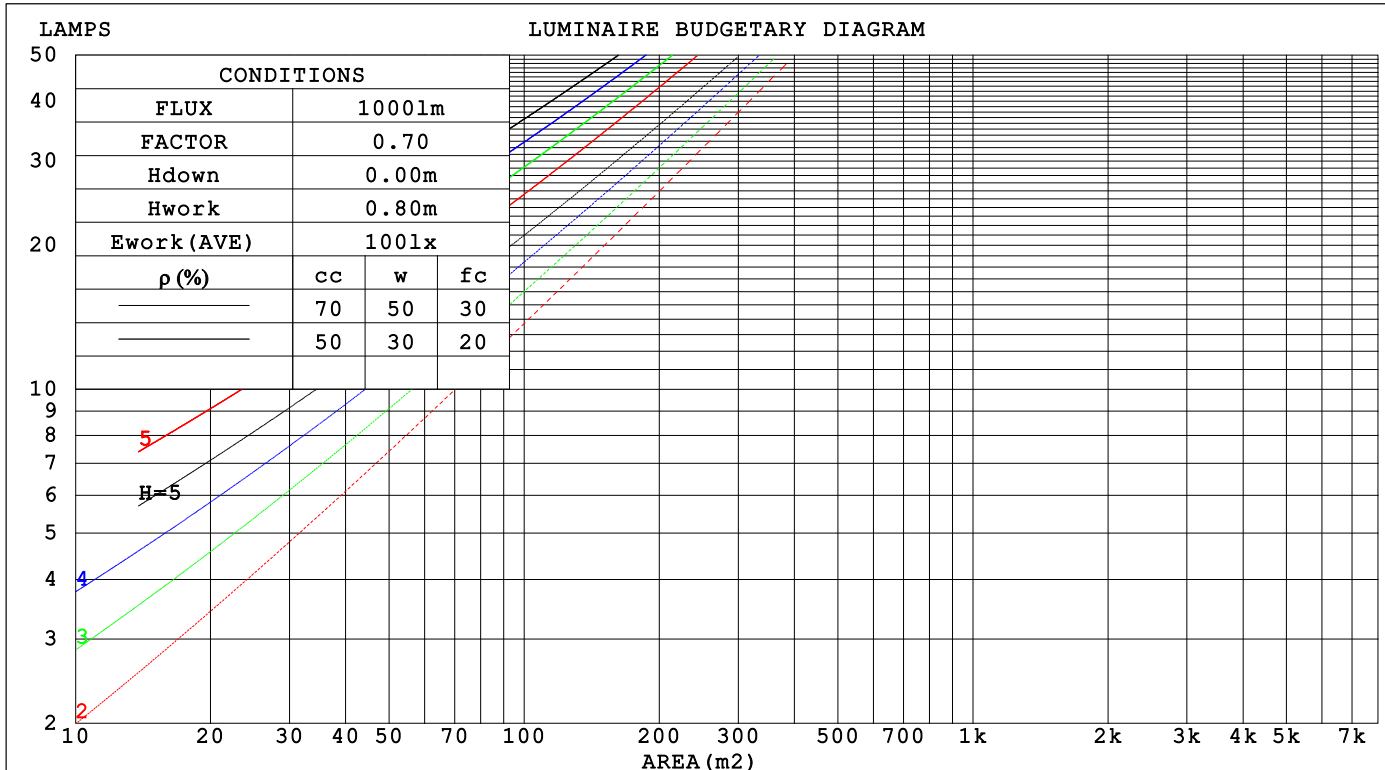
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2023-07-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 9.680m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.11V I:0.4026A P:48.107W PF:0.9948 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6302.77x1 lm		
NAME: DB77E-4-50W-A5C3	TYPE: 50W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 1.21*0.06	Shielding 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															



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2023-07-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.680m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:120.11V I:0.4026A P:48.107W PF:0.9948 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6302.77x1 lm		
NAME: DB77E-4-50W-A5C3	TYPE: 50W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 1.21*0.06	Shielding 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	.056	.301	.172	.055	.287	.165	.053	.274	.158	.051	.263	.152	.049		
2.0	.289	.159	.049	.283	.156	.048	.271	.151	.047	.260	.146	.046	.249	.141	.044		
3.0	.268	.142	.043	.262	.140	.042	.251	.136	.041	.241	.132	.041	.232	.128	.040		
4.0	.247	.128	.038	.242	.127	.037	.232	.123	.037	.223	.120	.036	.215	.117	.036		
5.0	.228	.116	.034	.224	.115	.033	.215	.112	.033	.207	.109	.033	.200	.107	.032		
6.0	.212	.106	.030	.208	.105	.030	.200	.103	.030	.193	.100	.030	.187	.098	.029		
7.0	.197	.098	.028	.194	.097	.028	.187	.094	.027	.181	.093	.027	.175	.091	.027		
8.0	.184	.090	.025	.181	.089	.025	.175	.087	.025	.169	.086	.025	.164	.084	.024		
9.0	.173	.084	.023	.170	.083	.023	.164	.081	.023	.159	.080	.023	.154	.078	.023		
10.0	.163	.078	.022	.160	.077	.022	.155	.076	.021	.150	.075	.021	.146	.073	.021		

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	.198	.198	.198	.169	.169	.169	.115	.115	.115	.066	.066	.066	.021	.021	.021		
1.0	.188	.164	.142	.161	.140	.122	.110	.097	.085	.063	.056	.049	.020	.018	.016		
2.0	.179	.139	.106	.154	.120	.091	.105	.083	.064	.061	.048	.037	.019	.016	.012		
3.0	.172	.122	.082	.147	.105	.071	.101	.073	.050	.058	.043	.029	.019	.014	.010		
4.0	.164	.109	.066	.141	.094	.058	.097	.065	.041	.056	.038	.024	.018	.012	.008		
5.0	.156	.098	.055	.134	.085	.048	.093	.059	.034	.054	.035	.020	.017	.011	.007		
6.0	.149	.090	.047	.128	.078	.041	.089	.054	.029	.051	.032	.017	.017	.010	.006		
7.0	.143	.083	.041	.123	.072	.036	.085	.050	.025	.049	.030	.015	.016	.010	.005		
8.0	.136	.077	.037	.117	.067	.032	.081	.047	.023	.047	.028	.013	.015	.009	.004		
9.0	.130	.072	.033	.112	.063	.029	.078	.044	.020	.045	.026	.012	.015	.009	.004		
10.0	.124	.068	.030	.107	.059	.026	.074	.041	.019	.043	.025	.011	.014	.008	.004		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2023-07-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.680m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.11V I:0.4026A P:48.107W PF:0.9948 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6302.77x1 lm										
NAME: DB77E-4-50W-A5C3					TYPE: 50W			WEIGHT:		
SPEC.: 5000K					DIM.:			SERIAL No.: 1		
MFR.:					SUR.: 1.21*0.06			Shielding 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	23.3	24.8	23.6	25.0	25.2	24.0	25.5	24.2	25.7	25.9
3H	24.5	25.9	24.8	26.1	26.4	25.4	26.8	25.8	27.1	27.3
4H	24.9	26.2	25.2	26.5	26.8	26.0	27.4	26.4	27.6	27.9
6H	25.1	26.3	25.4	26.6	26.9	26.5	27.7	26.8	28.0	28.3
8H	25.1	26.3	25.5	26.6	26.9	26.6	27.8	27.0	28.1	28.4
12H	25.1	26.2	25.4	26.5	26.9	26.7	27.8	27.1	28.2	28.5
4H 2H	23.9	25.2	24.2	25.5	25.7	24.4	25.7	24.7	26.0	26.3
3H	25.3	26.4	25.6	26.7	27.0	26.1	27.2	26.4	27.5	27.9
4H	25.8	26.8	26.2	27.2	27.5	26.8	27.8	27.2	28.2	28.5
6H	26.0	27.0	26.5	27.3	27.7	27.3	28.3	27.7	28.6	29.0
8H	26.1	26.9	26.5	27.3	27.7	27.5	28.4	27.9	28.8	29.2
12H	26.0	26.8	26.5	27.3	27.7	27.6	28.4	28.1	28.8	29.3
8H 4H	26.0	26.9	26.4	27.2	27.7	26.9	27.8	27.3	28.2	28.6
6H	26.4	27.1	26.8	27.5	28.0	27.6	28.3	28.0	28.7	29.2
8H	26.4	27.1	26.9	27.5	28.0	27.8	28.5	28.3	28.9	29.4
12H	26.4	27.0	26.9	27.4	27.9	28.0	28.6	28.5	29.0	29.5
12H 4H	26.0	26.8	26.4	27.2	27.6	26.9	27.7	27.3	28.1	28.5
6H	26.4	27.0	26.9	27.5	28.0	27.6	28.2	28.1	28.7	29.1
8H	26.5	27.0	27.0	27.5	28.0	27.9	28.4	28.3	28.9	29.4
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.4					+ 0.1 / - 0.2				
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				

CIE Pub.117, 6303 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 6.4)
Area: 0.0726 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2023-07-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.680m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.11V I:0.4026A P:48.107W PF:0.9948 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6302.77x1 lm		
NAME: DB77E-4-50W-A5C3	TYPE: 50W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 1.21*0.06	Shielding Angle:

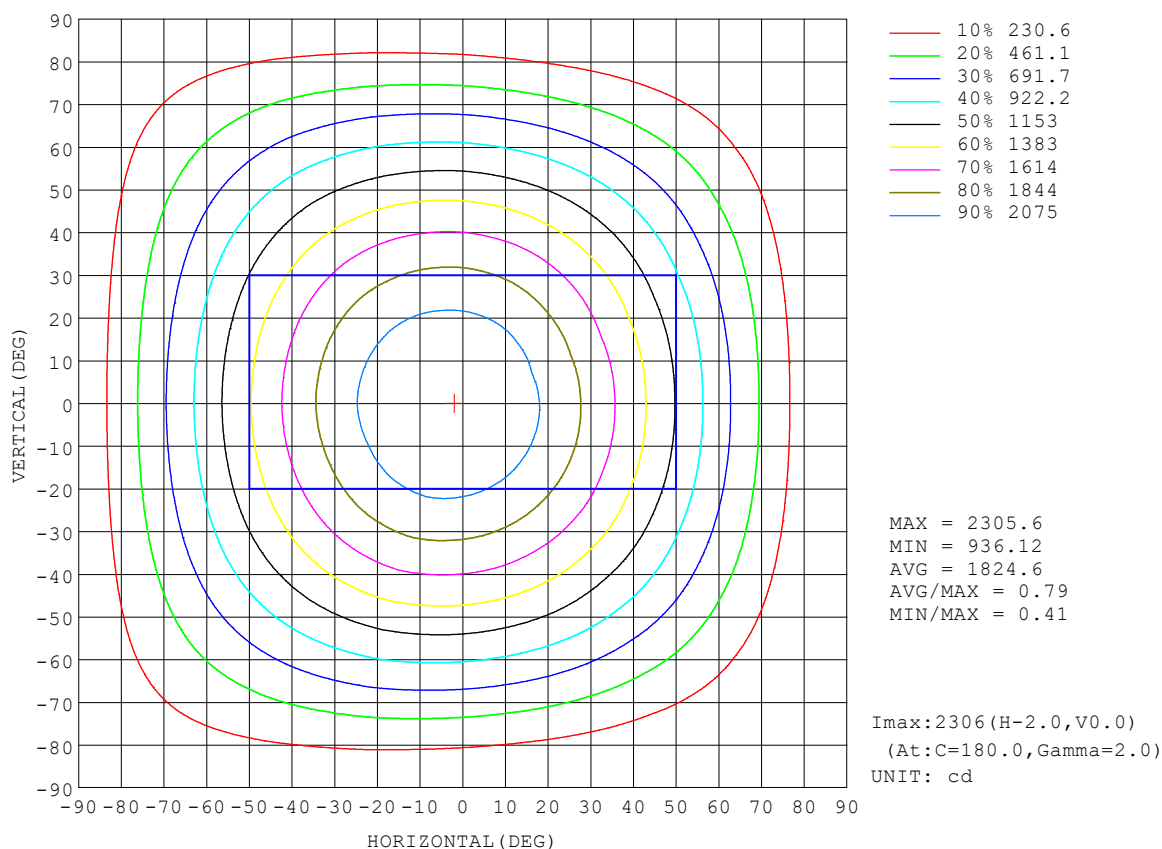
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	46	39	57	46	39	56	46	39	33
0.80	68	56	49	67	56	49	65	55	48	41
1.00	76	65	58	75	64	58	73	66	57	50
1.25	83	73	66	82	72	65	79	70	64	57
1.50	88	78	71	86	77	71	83	75	70	62
2.00	95	86	80	93	85	79	89	83	78	70
2.50	99	91	85	97	90	84	93	87	82	74
3.00	102	95	90	100	94	89	96	91	86	78
4.00	106	100	96	104	99	94	99	95	91	82
5.00	108	104	100	106	102	98	101	98	95	85
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: 25.3°C
Operators: DAMIN
Test Date: 2023-07-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 9.680m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:120.11V I:0.4026A P:48.107W PF:0.9948 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6302.77x1 lm		
NAME: DB77E-4-50W-A5C3	TYPE: 50W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 1.21*0.06	Shielding Angle:

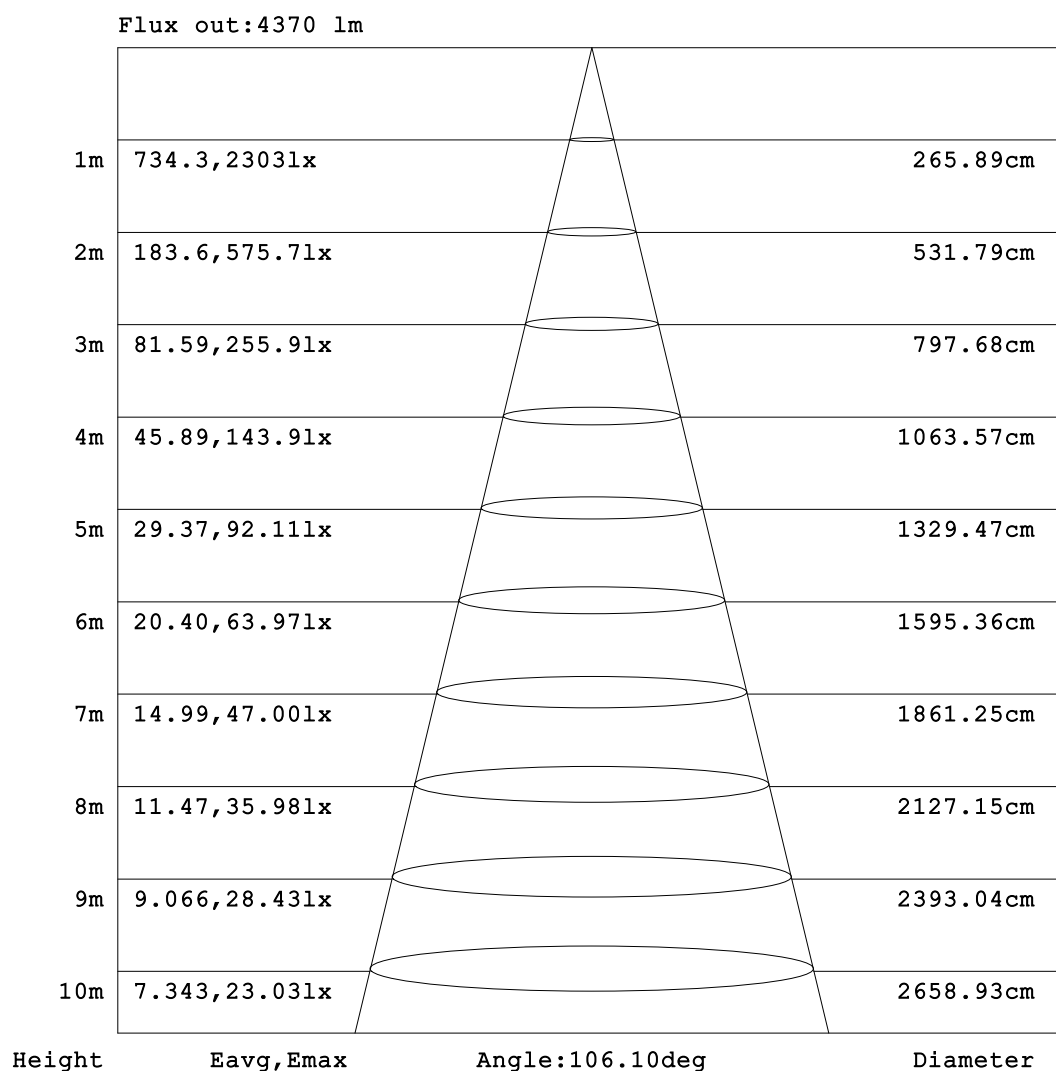


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2023-07-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.680m [K=1.0000]
Remarks:

AAI Figure

Test:U:120.11V I:0.4026A P:48.107W PF:0.9948 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6302.77x1 lm		
NAME: DB77E-4-50W-A5C3	TYPE: 50W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 1.21*0.06	Shielding Angle:



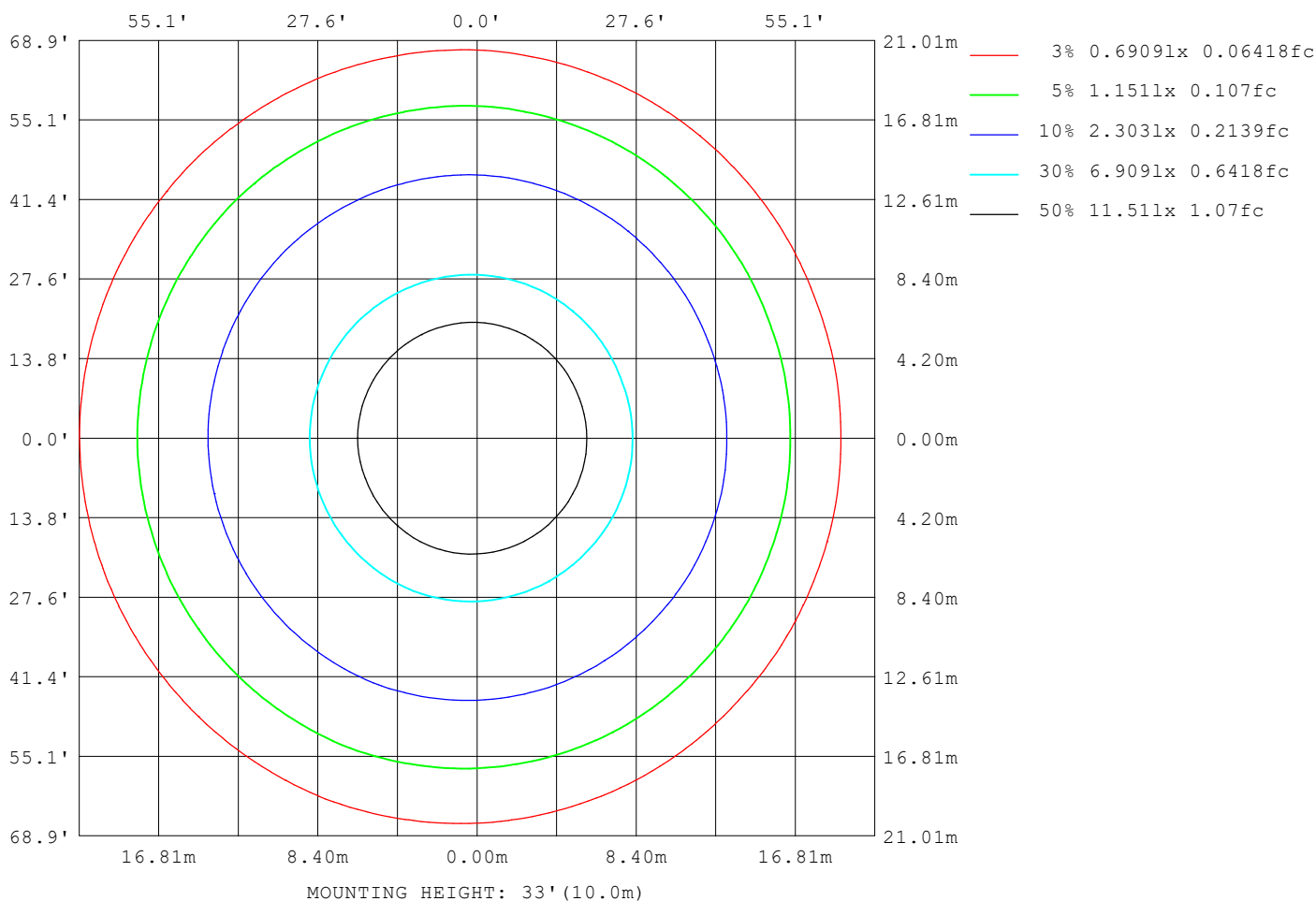
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-07-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
 Humidity:65.0%
 Test Distance:9.680m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.11V I:0.4026A P:48.107W PF:0.9948 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6302.77x1 lm		
NAME: DB77E-4-50W-A5C3	TYPE: 50W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 1.21*0.06	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2023-07-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.680m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.11V I:0.4026A P:48.107W PF:0.9948 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6302.77x1 lm		
NAME: DB77E-4-50W-A5C3	TYPE: 50W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 1.21*0.06	Shielding Angle:

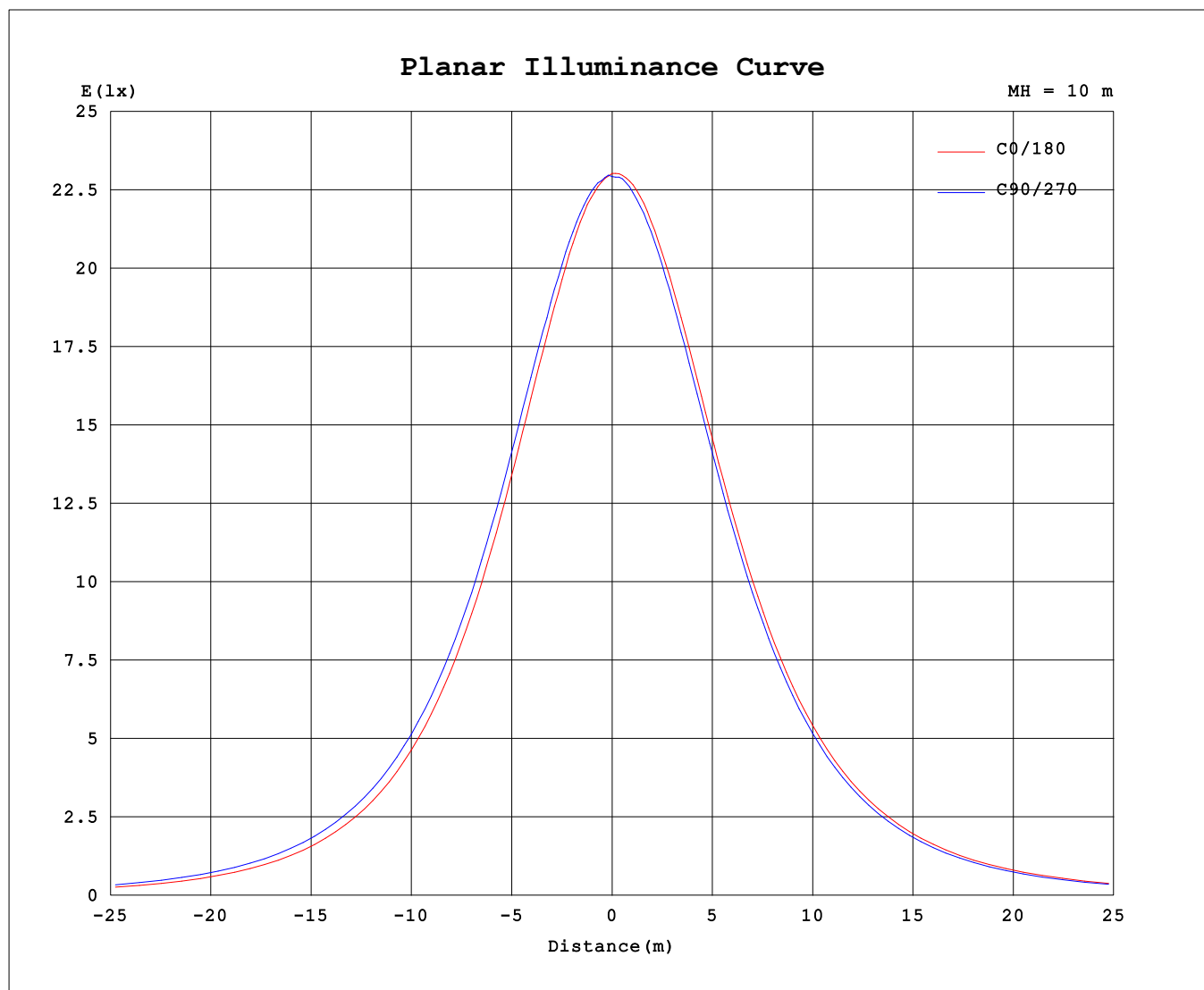
AvgL	cd/m2
L_0~180 (65) av	23866
L_0~180 (75) av	20762
L_0~180 (85) av	15573
L_90~270 (65) av	25222
L_90~270 (75) av	22698
L_90~270 (85) av	19186
L_45 (65) av	24448
L_45 (75) av	21573
L_45 (85) av	16629

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2023-07-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.680m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2023-07-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 9.680m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.11V I:0.4026A P:48.107W PF:0.9948 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6302.77x1 lm		
NAME: DB77E-4-50W-A5C3	TYPE: 50W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 1.21*0.06	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	2303	2297	2296	2294	2293	2298	2296	2285	2303	2297	2296	2294	2293	2298	2296	2285			
5	2268	2270	2273	2273	2285	2296	2291	2290	2304	2300	2292	2287	2286	2282	2271	2258			
10	2215	2216	2223	2235	2249	2267	2272	2269	2284	2274	2273	2254	2246	2236	2220	2201			
15	2131	2139	2151	2166	2188	2215	2222	2222	2235	2226	2218	2202	2187	2168	2146	2126			
20	2034	2041	2059	2084	2111	2138	2147	2149	2164	2156	2146	2126	2108	2083	2057	2029			
25	1915	1926	1945	1976	2013	2040	2055	2056	2070	2062	2048	2029	2007	1978	1940	1912			
30	1780	1789	1817	1855	1892	1928	1942	1944	1959	1949	1937	1917	1889	1855	1813	1780			
35	1634	1647	1675	1716	1756	1798	1810	1818	1829	1823	1813	1787	1759	1719	1673	1635			
40	1477	1492	1521	1568	1612	1652	1669	1676	1687	1680	1672	1646	1615	1572	1524	1480			
45	1312	1327	1358	1408	1455	1501	1515	1520	1533	1529	1520	1494	1462	1414	1362	1317			
50	1143	1156	1188	1242	1291	1338	1351	1361	1370	1366	1356	1334	1299	1251	1195	1150			
55	968	981	1015	1069	1118	1161	1178	1189	1202	1199	1192	1166	1132	1081	1025	979			
60	790	804	836	891	941	986	1005	1016	1027	1024	1018	994	959	906	849	801			
65	613	625	659	712	764	806	825	840	851	849	842	819	784	731	674	626			
70	441	452	484	535	585	626	646	661	672	672	667	645	609	557	502	456			
75	281	290	317	367	412	452	471	487	499	500	496	474	441	389	338	296			
80	134	142	165	208	251	286	305	323	335	334	331	311	282	233	187	150			
85	13.7	16.5	32.4	67.6	106	135	155	172	183	184	180	163	137	93.4	53.5	25.1			
90	2.79	2.81	2.77	3.00	3.93	9.33	24.3	39.5	49.8	50.7	46.5	33.1	15.1	4.85	4.50	4.35			
95	3.43	3.44	3.36	3.36	3.30	3.20	2.93	2.79	4.16	4.28	4.65	4.96	5.28	5.34	5.36	5.26			
100	4.20	4.20	4.14	4.14	4.00	3.85	3.55	3.32	4.99	5.13	5.55	5.89	6.28	6.37	6.39	6.26			
105	5.05	5.04	4.97	4.99	4.88	4.66	4.33	4.07	5.96	6.12	6.60	6.98	7.39	7.47	7.45	7.31			
110	5.94	5.92	5.86	5.90	5.82	5.55	5.19	4.89	6.98	7.16	7.67	8.09	8.52	8.53	8.54	8.39			
115	6.88	6.86	6.90	6.86	6.81	6.48	6.07	5.76	8.03	8.24	8.77	9.18	9.63	9.61	9.61	9.44			
120	7.91	7.85	8.08	7.91	7.84	7.46	7.01	6.68	9.11	9.34	9.88	10.3	10.7	10.7	10.7	10.5			
125	8.96	8.91	8.92	9.01	8.92	8.54	8.02	7.64	10.2	10.4	11.0	11.4	11.8	11.8	11.7	11.6			
130	10.1	10.1	10.1	10.2	10.1	9.66	9.07	8.65	11.3	11.5	12.1	12.4	12.9	12.9	12.8	12.7			
135	11.2	11.2	11.3	11.4	11.2	10.8	10.2	9.75	12.4	12.6	13.3	13.5	13.9	13.9	13.9	13.8			
140	12.3	12.4	12.5	12.5	12.4	12.0	11.4	10.9	13.5	13.8	14.4	14.6	14.9	14.9	14.9	14.8			
145	13.4	13.6	13.6	13.6	13.5	13.1	12.6	12.0	14.6	14.8	15.3	15.6	15.8	15.8	15.8	15.8			
150	14.5	14.7	14.7	14.7	14.5	14.2	13.6	13.2	15.6	15.8	16.3	16.5	16.6	16.6	16.6	16.6			
155	15.5	15.8	15.7	15.7	15.5	15.2	15.0	14.3	16.4	16.6	17.0	17.2	17.3	17.2	17.3	17.3			
160	16.5	16.8	16.6	16.6	16.4	16.2	16.4	15.3	17.2	17.3	17.7	17.8	17.8	17.7	17.7	17.8			
165	17.4	17.7	17.4	17.4	17.2	17.0	17.1	16.3	17.9	17.9	18.2	18.3	18.3	18.1	18.1	18.2			
170	18.3	18.4	18.1	18.1	17.9	17.8	17.7	17.2	18.5	18.4	18.6	18.6	18.6	18.3	18.4	18.4			
175	18.9	18.9	18.7	18.6	18.5	18.3	18.2	17.9	19.0	18.8	18.9	18.9	18.8	18.5	18.7	18.5			
180	19.2	19.1	19.0	19.0	18.8	18.6	18.6	18.4	19.2	19.1	19.0	18.9	18.9	18.6	18.7	18.5			

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