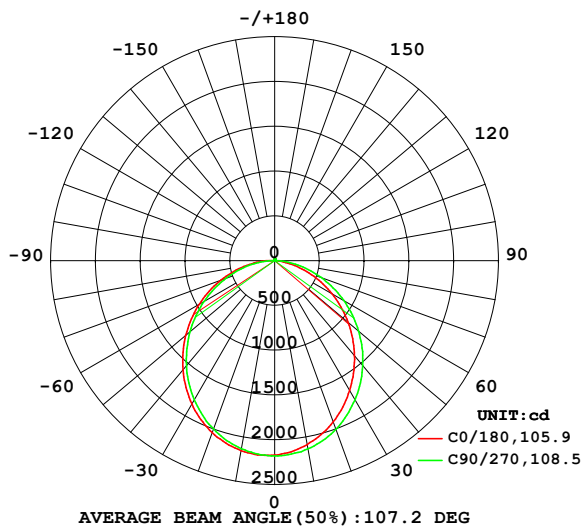


LUMINAIRE PHOTOMETRIC TEST REPORT

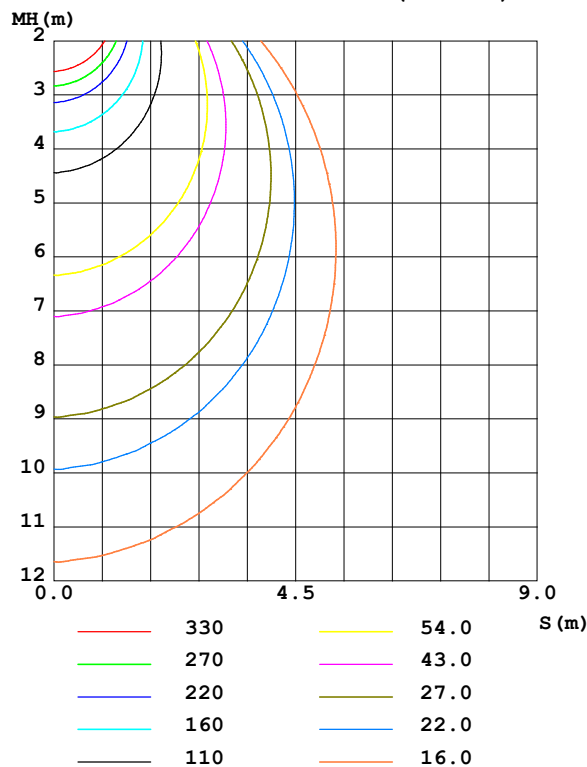
Test:U:120.15V I:0.4010A P:47.919W PF:0.9945 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5969.85x1 lm		
NAME: DB77E-4-50W-A5C3	TYPE: 50W	WEIGHT:
SPEC.: 3500K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 1.21*0.06	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 124.58 lm/W			
MODEL	DB77E-4-50W-A5C3	I _{max} (cd)	2187	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)	5969.8	η UP,DN(C0-180)	0.4,48.6
NOMINAL FLUX(lm)	5969.85	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.5,50.4
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	2085	2104	2134	2159	2154	2151	2134	2113	0- 10	205.5	205.5	3.44,3.44
20	1915	1947	2004	2040	2044	2032	1999	1954	10- 20	584.0	789.5	13.2,13.2
30	1675	1719	1796	1843	1849	1837	1795	1724	20- 30	872.5	1662	27.8,27.8
40	1388	1436	1530	1585	1594	1581	1533	1448	30- 40	1033	2695	45.1,45.1
50	1071	1122	1224	1281	1296	1286	1232	1136	40- 50	1051	3746	62.8,62.8
60	739.6	790.2	891.8	953.3	972.2	963.6	908.2	807.3	50- 60	933.4	4680	78.4,78.4
70	411.7	455.9	552.9	612.4	636.9	632.8	577.7	476.8	60- 70	703.7	5383	90.2,90.2
80	123.7	155.2	236.7	288.8	318.7	314.0	267.2	177.5	70- 80	407.7	5791	97,97
90	2.635	2.616	3.678	22.85	49.20	44.69	14.39	4.289	80- 90	120.3	5911	99,99
100	3.973	3.902	3.776	3.357	4.688	5.278	5.966	6.086	90-100	5.856	5917	99.1,99.1
110	5.629	5.541	5.512	4.897	6.557	7.269	8.105	8.128	100-110	5.847	5923	99.2,99.2
120	7.491	7.695	7.439	6.660	8.542	9.367	10.20	10.16	110-120	7.355	5931	99.3,99.3
130	9.516	9.538	9.543	8.630	10.62	11.45	12.25	12.21	120-130	8.435	5939	99.5,99.5
140	11.65	11.81	11.72	10.82	12.72	13.63	14.21	14.19	130-140	8.905	5948	99.6,99.6
150	13.73	13.90	13.75	12.95	14.66	15.41	15.77	15.80	140-150	8.494	5956	99.8,99.8
160	15.65	15.72	15.58	15.55	16.26	16.78	16.97	16.91	150-160	7.073	5963	99.9,99.9
170	17.30	17.19	16.99	16.84	17.48	17.67	17.63	17.51	160-170	4.727	5968	100,100
180	18.12	18.03	17.87	17.73	18.14	18.03	17.90	17.76	170-180	1.674	5970	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 3227.2 lm

%lum = 54.1%

%lamp = 54.1%

Conical surface Flux(130deg): 5065.8 lm

%lum = 84.9%

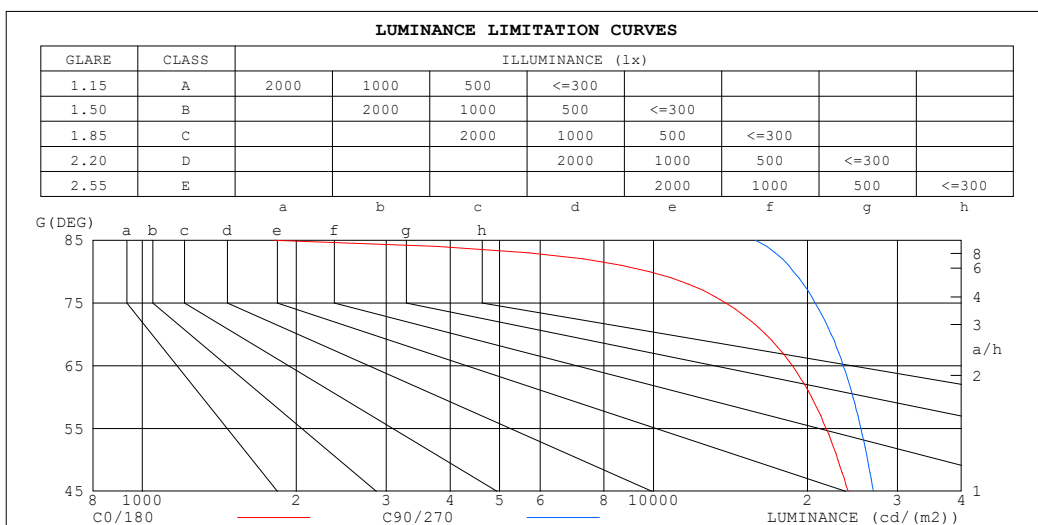
%lamp = 84.9%

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:120.15V I:0.4010A P:47.919W PF:0.9945 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5969.85x1 lm		
NAME: DB77E-4-50W-A5C3	TYPE: 50W	WEIGHT:
SPEC.: 3500K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 1.21*0.06	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1809	15832
80	9808	18778
75	13857	20699
70	16581	22268
65	18688	23477
60	20374	24569
55	21749	25454
50	22945	26239
45	24015	26940

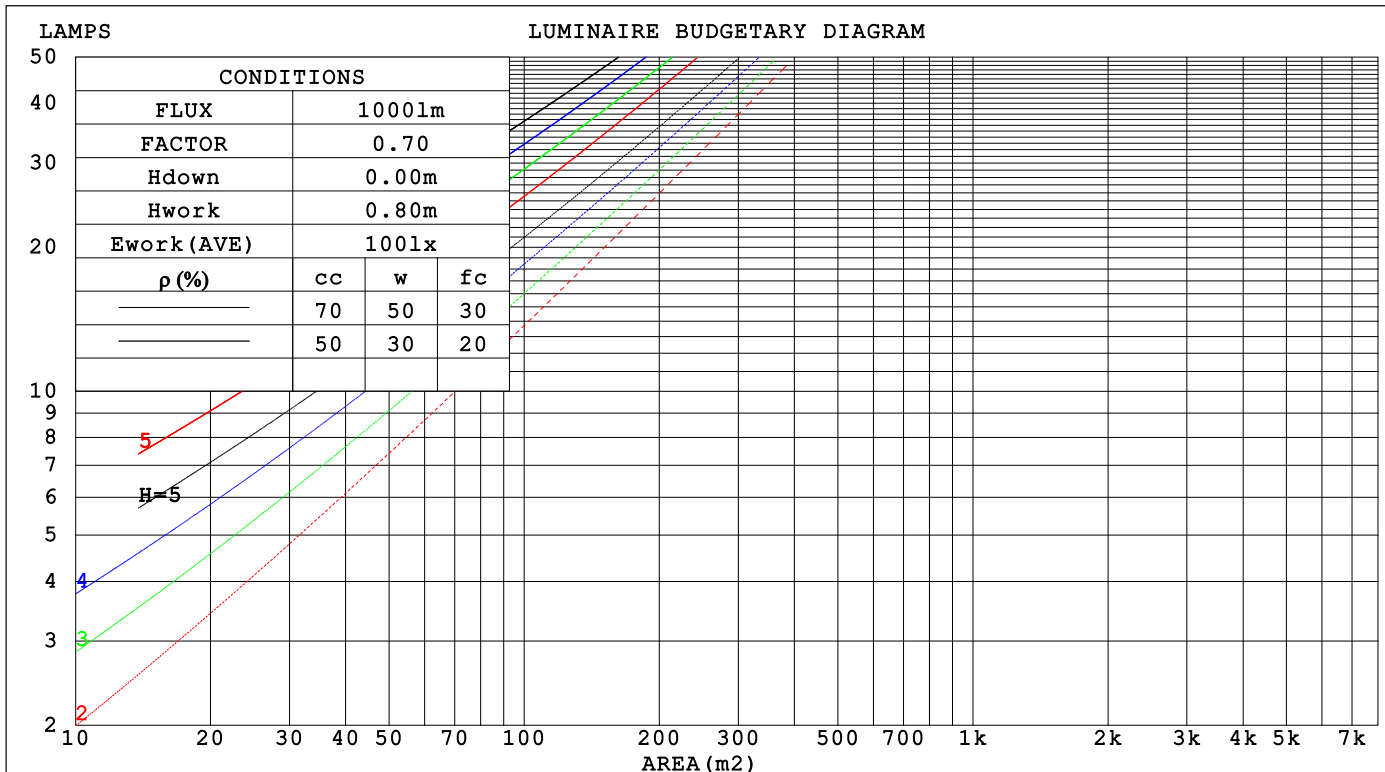
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2023-07-20

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:120.15V I:0.4010A P:47.919W PF:0.9945 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5969.85x1 lm		
NAME: DB77E-4-50W-A5C3	TYPE: 50W	WEIGHT:
SPEC.: 3500K	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:120.15V I:0.4010A P:47.919W PF:0.9945 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5969.85x1 lm		
NAME: DB77E-4-50W-A5C3	TYPE: 50W	WEIGHT:
SPEC.: 3500K	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	.259	.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	.186	.098	.029		
7.0	.197	.098	.028	.194	.096	.027	.187	.094	.027	.180	.093	.027	.174	.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	.162	.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	.092	.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:120.15V I:0.4010A P:47.919W PF:0.9945 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5969.85x1 lm										
NAME: DB77E-4-50W-A5C3					TYPE: 50W			WEIGHT:		
SPEC.: 3500K					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	23.0	24.5	23.3	24.8	25.0	23.8	25.3	24.0	25.5	25.7
3H	24.2	25.6	24.6	25.9	26.1	25.2	26.6	25.6	26.9	27.1
4H	24.6	26.0	25.0	26.2	26.5	25.8	27.2	26.2	27.4	27.7
6H	24.8	26.1	25.2	26.4	26.7	26.3	27.5	26.6	27.8	28.1
8H	24.8	26.0	25.2	26.3	26.6	26.4	27.6	26.8	27.9	28.2
12H	24.8	25.9	25.2	26.3	26.6	26.5	27.6	26.9	28.0	28.3
4H 2H	23.6	25.0	24.0	25.2	25.5	24.2	25.5	24.5	25.8	26.1
3H	25.0	26.2	25.4	26.5	26.8	25.9	27.0	26.2	27.3	27.6
4H	25.5	26.6	25.9	26.9	27.2	26.6	27.6	27.0	28.0	28.3
6H	25.8	26.7	26.2	27.1	27.5	27.1	28.1	27.5	28.4	28.8
8H	25.8	26.7	26.2	27.1	27.5	27.3	28.2	27.7	28.6	29.0
12H	25.8	26.6	26.2	27.0	27.4	27.4	28.2	27.9	28.6	29.1
8H 4H	25.7	26.6	26.2	27.0	27.4	26.7	27.6	27.1	28.0	28.4
6H	26.1	26.8	26.6	27.3	27.7	27.4	28.1	27.8	28.5	29.0
8H	26.2	26.8	26.6	27.3	27.7	27.6	28.3	28.1	28.7	29.2
12H	26.2	26.7	26.6	27.2	27.7	27.8	28.4	28.3	28.8	29.3
12H 4H	25.7	26.5	26.2	26.9	27.4	26.7	27.5	27.1	27.9	28.3
6H	26.1	26.8	26.6	27.2	27.7	27.4	28.0	27.8	28.5	28.9
8H	26.2	26.8	26.7	27.2	27.7	27.6	28.2	28.1	28.7	29.2
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, 5970 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 6.2)
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:120.15V I:0.4010A P:47.919W PF:0.9945 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5969.85x1 lm		
NAME: DB77E-4-50W-A5C3	TYPE: 50W	WEIGHT:
SPEC.: 3500K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 1.21*0.06	Shielding Angle:

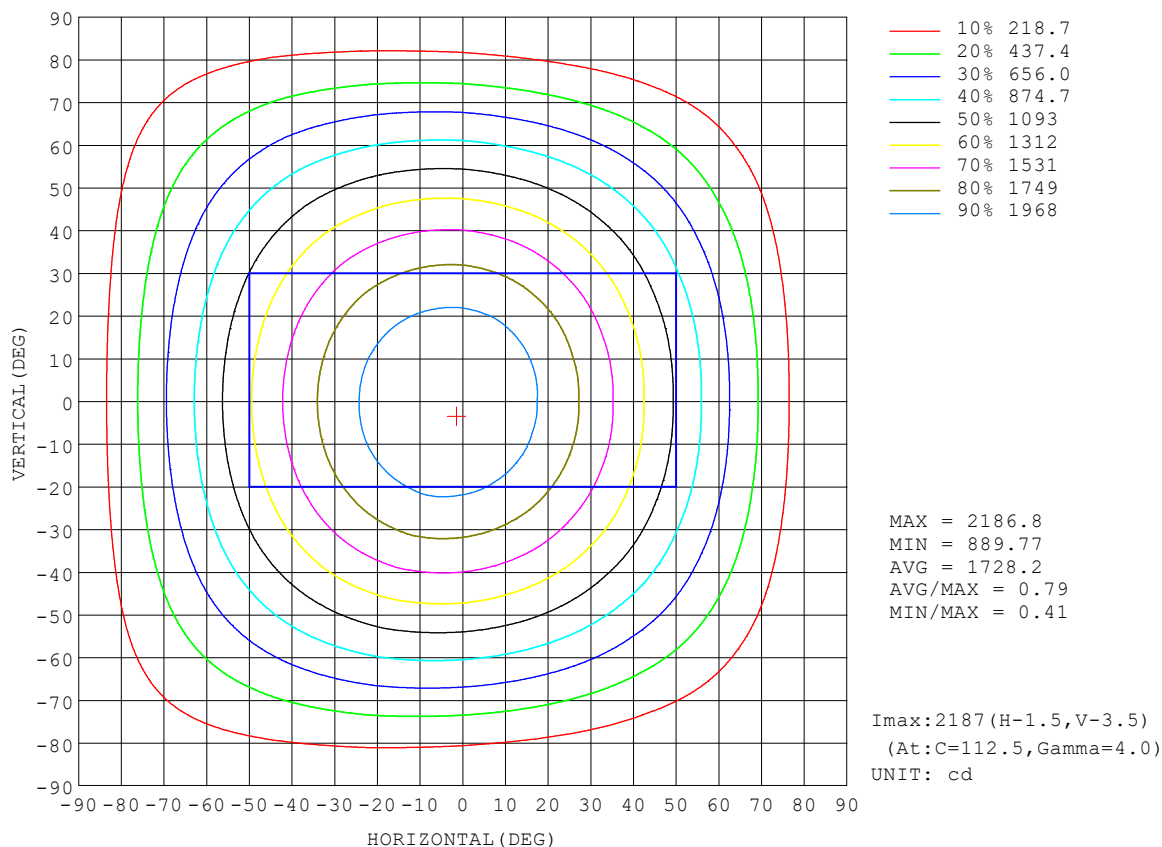
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	46	39	57	46	39	56	46	39	33
0.80	68	56	49	67	56	49	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:120.15V I:0.4010A P:47.919W PF:0.9945 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5969.85x1 lm		
NAME: DB77E-4-50W-A5C3	TYPE: 50W	WEIGHT:
SPEC.: 3500K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 1.21*0.06	Shielding Angle:

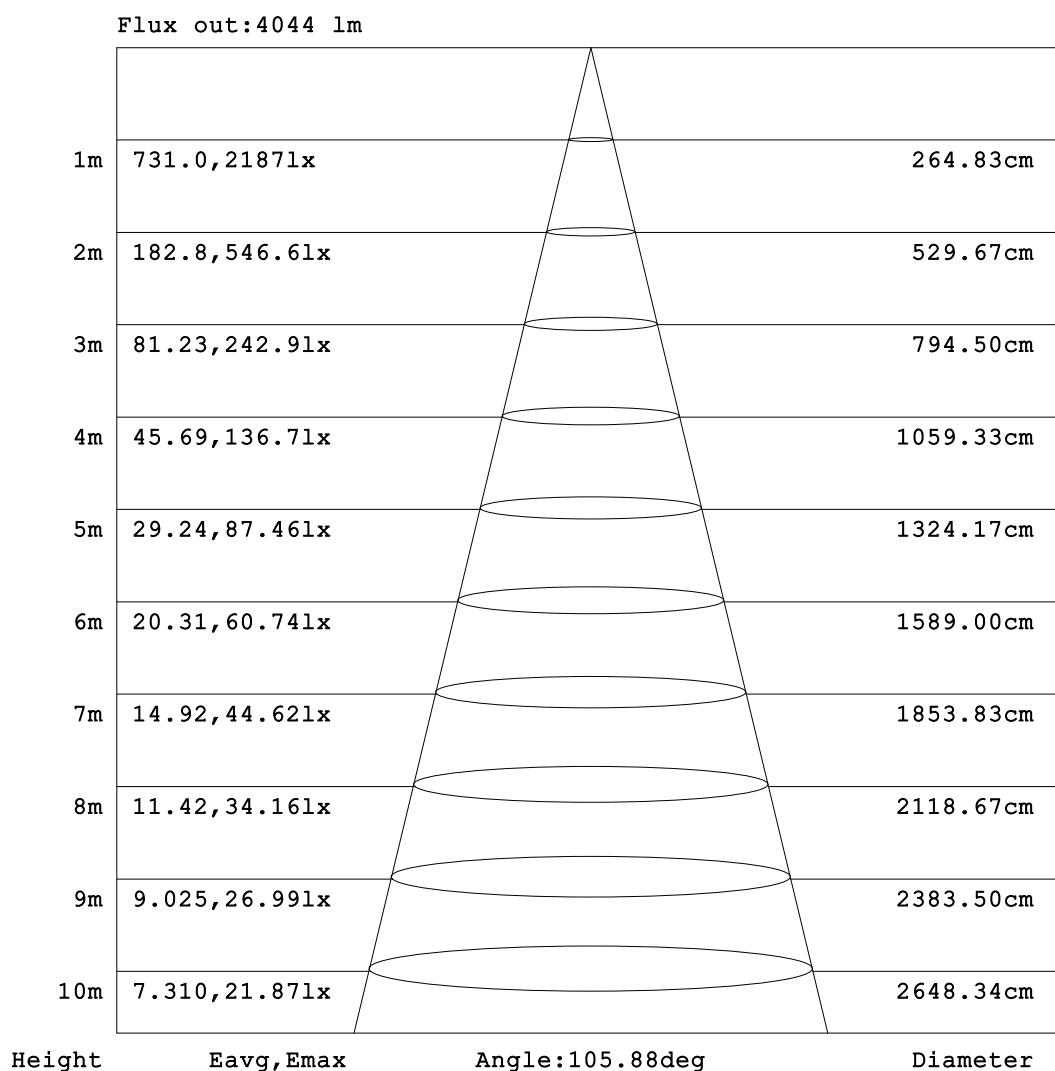


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2023-07-20

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:120.15V I:0.4010A P:47.919W PF:0.9945 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5969.85x1 lm		
NAME: DB77E-4-50W-A5C3	TYPE: 50W	WEIGHT:
SPEC.: 3500K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 1.21*0.06	Shielding Angle:



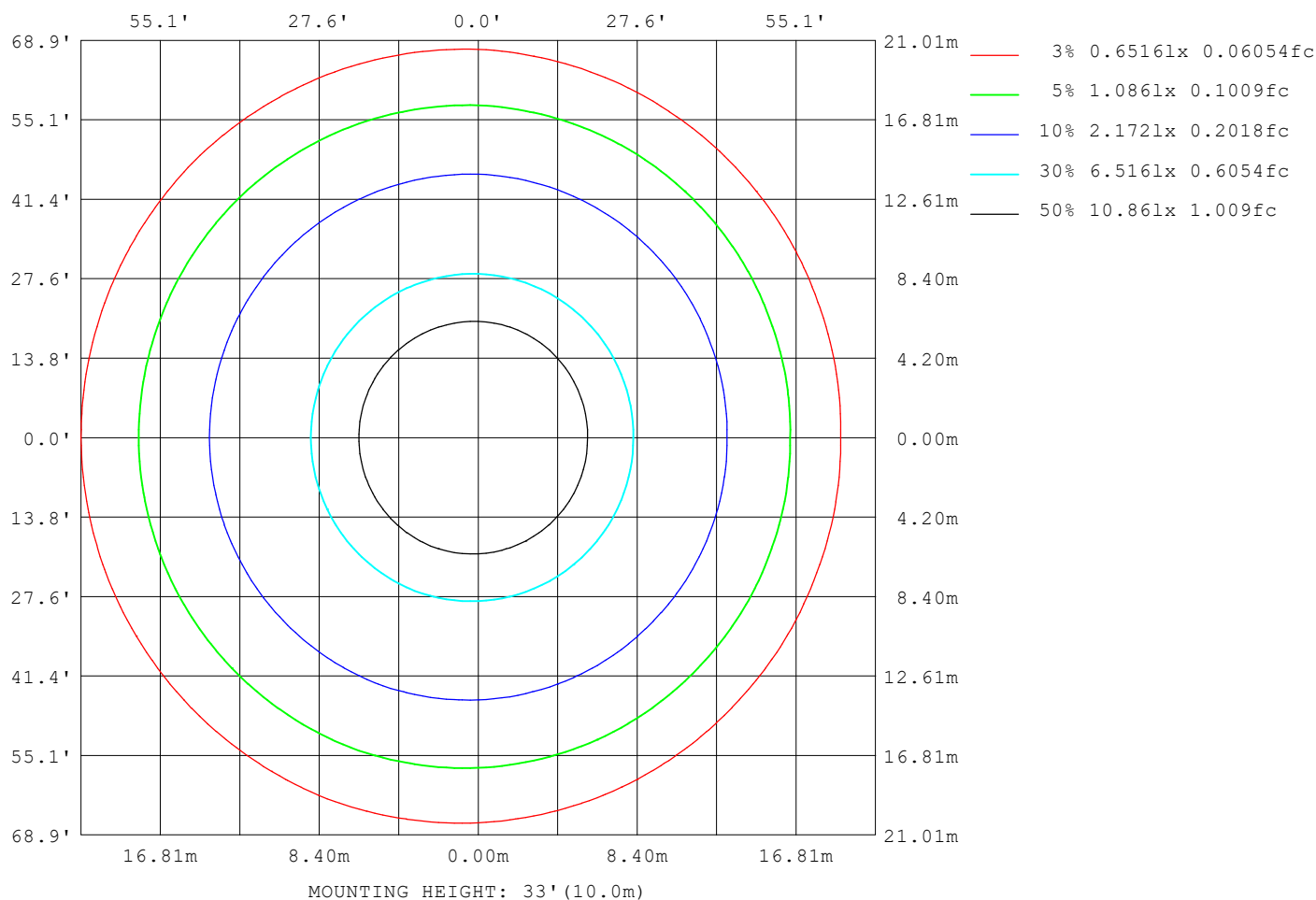
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.15V I:0.4010A P:47.919W PF:0.9945 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5969.85x1 lm		
NAME: DB77E-4-50W-A5C3	TYPE: 50W	WEIGHT:
SPEC.: 3500K	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:120.15V I:0.4010A P:47.919W PF:0.9945 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5969.85x1 lm		
NAME: DB77E-4-50W-A5C3	TYPE: 50W	WEIGHT:
SPEC.: 3500K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 1.21*0.06	Shielding Angle:

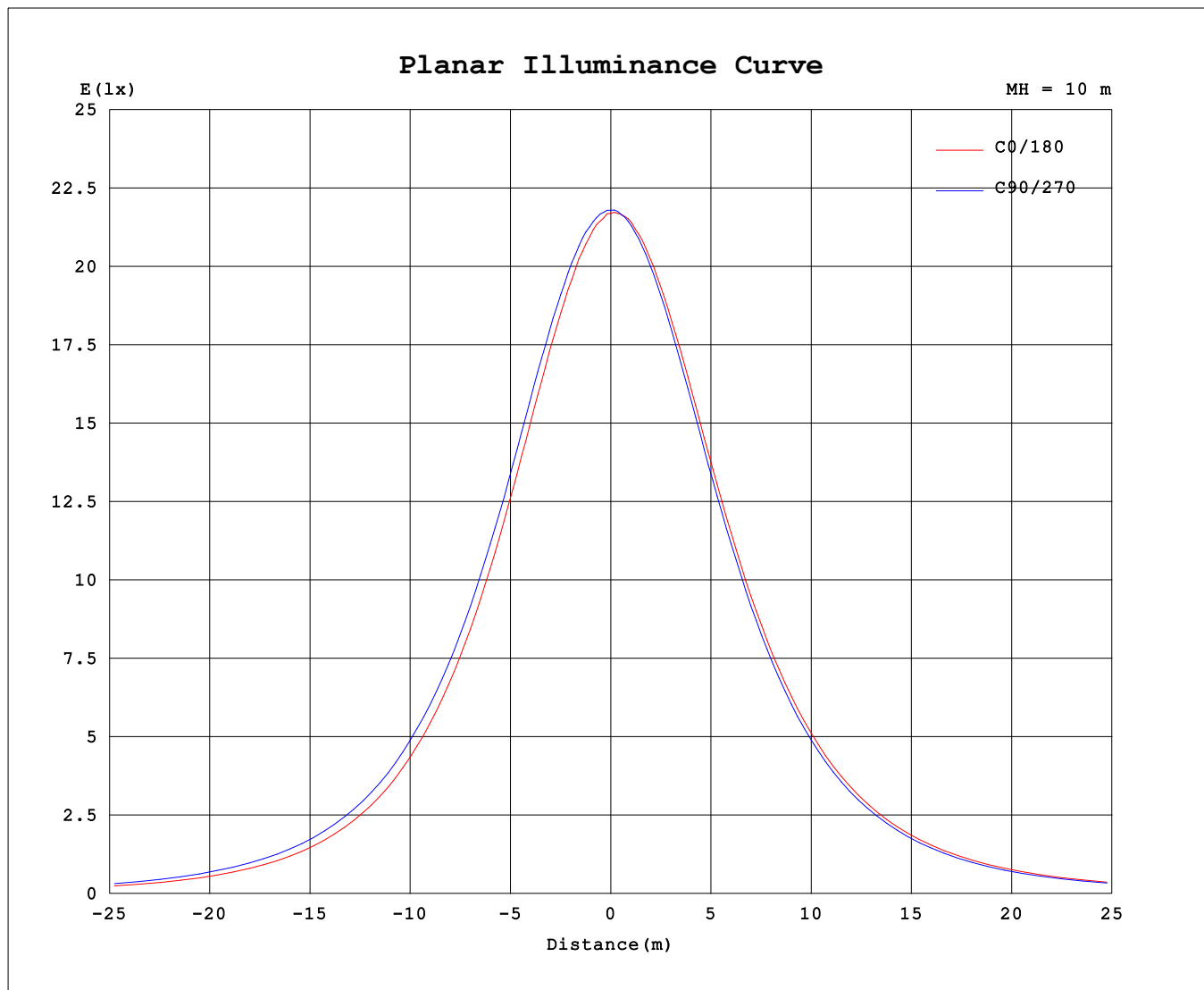
AvgL	cd/m2
L_0~180 (65) av	22452
L_0~180 (75) av	19541
L_0~180 (85) av	14772
L_90~270 (65) av	23851
L_90~270 (75) av	21472
L_90~270 (85) av	18171
L_45 (65) av	23155
L_45 (75) av	20414
L_45 (85) av	15728

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:120.15V I:0.4010A P:47.919W PF:0.9945 Freq:60.01Hz			UTHDi:0.00% ITHDi:0.00% KDisp:0			Lamp Flux:5969.85x1 lm		
NAME: DB77E-4-50W-A5C3			TYPE: 50W			WEIGHT:		
SPEC.: 3500K			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	2169	2173	2175	2174	2179	2187	2184	2176	2169	2173	2175	2174	2179	2187	2184	2176			
5	2140	2144	2152	2156	2167	2182	2181	2180	2177	2174	2175	2169	2168	2166	2158	2148			
10	2085	2095	2104	2118	2134	2152	2159	2159	2154	2151	2151	2137	2134	2126	2113	2097			
15	2010	2018	2037	2055	2079	2103	2113	2113	2111	2105	2104	2087	2080	2062	2040	2024			
20	1915	1926	1947	1972	2004	2030	2040	2044	2044	2040	2032	2015	1999	1981	1954	1928			
25	1803	1816	1839	1872	1907	1941	1953	1957	1955	1952	1944	1925	1905	1880	1847	1819			
30	1675	1690	1719	1754	1796	1832	1843	1849	1849	1844	1837	1817	1795	1764	1724	1691			
35	1536	1553	1583	1625	1669	1708	1720	1727	1727	1724	1717	1694	1669	1636	1591	1556			
40	1388	1405	1436	1483	1530	1570	1585	1591	1594	1590	1581	1561	1533	1493	1448	1406			
45	1233	1250	1282	1332	1383	1423	1439	1445	1448	1444	1439	1416	1388	1342	1296	1255			
50	1071	1089	1122	1174	1224	1267	1281	1292	1296	1293	1286	1263	1232	1188	1136	1093			
55	906	924	956	1009	1060	1104	1119	1130	1135	1134	1126	1106	1073	1027	973	930			
60	740	755	790	843	892	935	953	965	972	970	964	942	908	859	807	762			
65	573	588	621	672	720	764	783	797	804	804	798	776	743	694	641	596			
70	412	425	456	506	553	594	612	627	637	637	633	611	578	528	477	434			
75	260	272	298	346	389	427	446	462	474	474	469	449	418	369	321	281			
80	124	132	155	196	237	271	289	306	319	318	314	295	267	221	177	143			
85	11.4	14.6	29.9	63.4	100	128	146	163	175	176	171	155	130	88.8	50.9	23.5			
90	2.63	2.66	2.62	2.83	3.68	8.79	22.9	37.4	49.2	49.1	44.7	31.6	14.4	4.61	4.29	4.14			
95	3.25	3.24	3.17	3.19	3.26	3.03	2.77	2.63	3.90	4.04	4.41	4.71	5.03	5.08	5.12	5.01			
100	3.97	3.97	3.90	3.91	3.78	3.64	3.36	3.17	4.69	4.84	5.28	5.61	5.97	6.07	6.09	5.96			
105	4.78	4.76	4.70	4.72	4.62	4.41	4.09	3.88	5.60	5.78	6.25	6.65	7.05	7.10	7.11	6.96			
110	5.63	5.60	5.54	5.58	5.51	5.26	4.90	4.64	6.56	6.77	7.27	7.67	8.11	8.12	8.13	7.98			
115	6.54	6.49	6.53	6.48	6.45	6.15	5.75	5.48	7.56	7.79	8.32	8.72	9.17	9.13	9.15	9.00			
120	7.49	7.44	7.70	7.48	7.44	7.08	6.66	6.35	8.54	8.82	9.37	9.77	10.2	10.2	10.2	10.0			
125	8.49	8.45	8.44	8.54	8.44	8.08	7.61	7.26	9.58	9.86	10.4	10.8	11.2	11.2	11.2	11.1			
130	9.52	9.52	9.54	9.64	9.54	9.12	8.63	8.23	10.6	10.9	11.4	11.8	12.3	12.2	12.2	12.1			
135	10.6	10.6	10.7	10.8	10.7	10.2	9.71	9.26	11.7	12.0	12.6	12.9	13.3	13.2	13.3	13.2			
140	11.6	11.7	11.8	11.9	11.7	11.3	10.8	10.3	12.7	13.0	13.6	13.9	14.2	14.2	14.2	14.1			
145	12.7	12.9	12.9	12.9	12.8	12.4	11.9	11.5	13.7	14.0	14.6	14.8	15.1	15.0	15.1	15.0			
150	13.7	13.9	13.9	13.9	13.8	13.4	13.0	12.5	14.7	14.9	15.4	15.6	15.8	15.7	15.8	15.8			
155	14.7	14.9	14.8	14.8	14.7	14.4	14.2	13.6	15.5	15.7	16.2	16.3	16.4	16.3	16.4	16.5			
160	15.7	15.9	15.7	15.7	15.6	15.3	15.6	14.6	16.3	16.4	16.8	16.9	17.0	16.8	16.9	17.0			
165	16.5	16.7	16.5	16.5	16.3	16.2	16.2	15.5	16.9	16.9	17.3	17.4	17.4	17.2	17.2	17.3			
170	17.3	17.4	17.2	17.1	17.0	16.9	16.8	16.3	17.5	17.5	17.7	17.7	17.6	17.4	17.5	17.6			
175	17.9	17.9	17.7	17.6	17.5	17.4	17.4	17.1	17.9	17.9	17.9	17.9	17.8	17.6	17.8	17.7			
180	18.1	18.1	18.0	17.9	17.9	17.7	17.7	17.6	18.1	18.1	18.0	17.9	17.9	17.7	17.8	17.6			

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