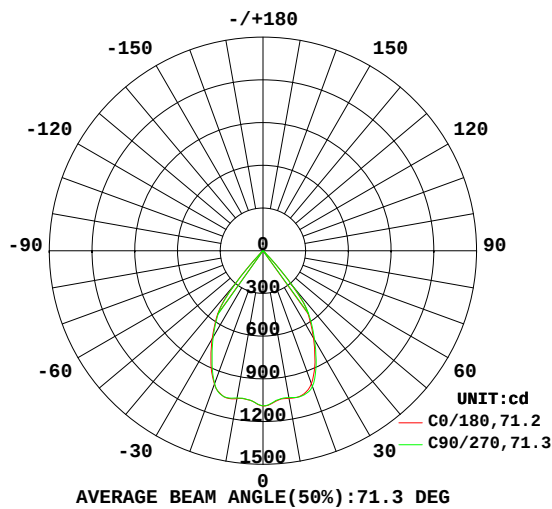


LUMINAIRE PHOTOMETRIC TEST REPORT

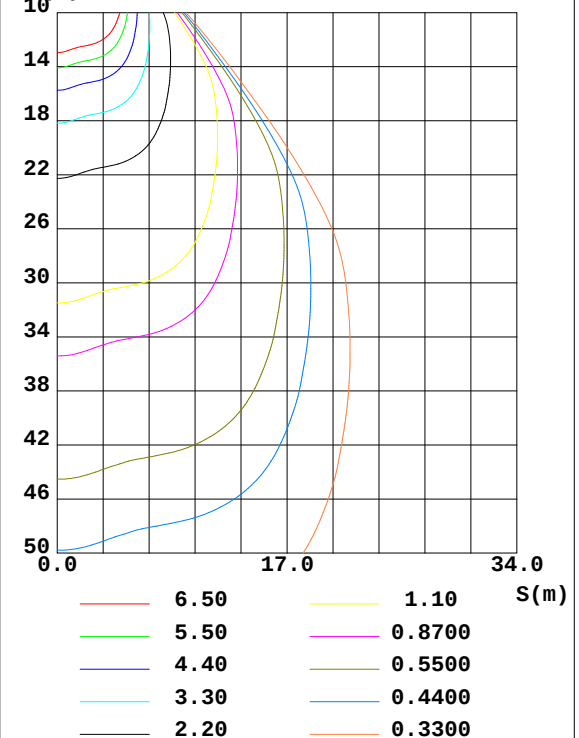
Test:U:231.13V I:0.0545A P:12.234W PF:0.9712 Freq:49.99Hz Lamp Flux:1239.16x1 lm		
NAME: DL2082-BKTC15C01	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 75mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 101.29 lm/W			
MODEL	TB8-1911A 4000K	I _{max} (cd)	1091	S/MH(C0/180)	1.04
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)	1.04
RATED VOLTAGE(V)	220-240	TOTAL FLUX(lm)	1239.2	η UP, DN(C0-180)	0.8, 49.8
NOMINAL FLUX(lm)	1239.16	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.8, 48.7
LAMPS INSIDE	1	η up(%)	1.6	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	220	η down(%)	98.4	CIBSE SHR MAX	1.10

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2025-05-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.880m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

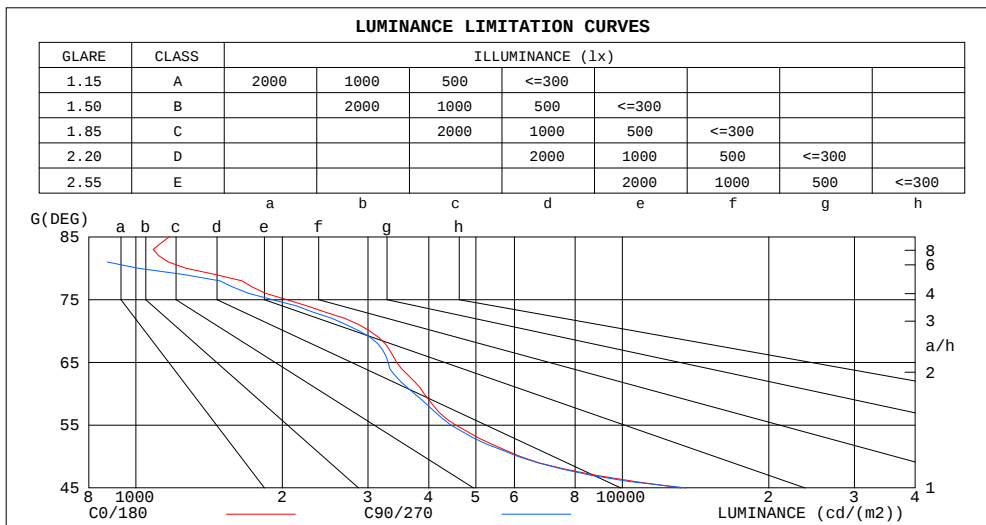
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1052	1054	1048	1043	1054	1056	1050	1046	0- 10	100.6	100.6	8.11, 8.11
20	993.8	1004	1015	1007	997.5	988.1	994.5	997.9	10- 20	295.6	396.1	32, 32
30	710.7	721.6	726.3	723.5	715.1	706.1	700.1	706.7	20- 30	395.2	791.4	63.9, 63.9
40	328.4	342.6	345.7	316.7	309.6	297.2	296.3	316.0	30- 40	341.6	1133	91.4, 91.4
50	17.52	17.55	17.32	17.09	17.06	16.73	17.05	17.67	40- 50	67.12	1200	96.8, 96.8
60	8.646	8.641	8.261	8.113	8.075	8.144	8.277	8.433	50- 60	10.43	1211	97.7, 97.7
70	4.571	4.524	4.350	4.249	4.047	4.097	4.230	4.510	60- 70	6.153	1217	98.2, 98.2
80	0.9720	0.9032	0.7748	0.6594	0.6047	0.6232	0.7517	0.9031	70- 80	2.438	1219	98.4, 98.4
90	0	0	0	0	0	0	0	0	80- 90	0.3027	1219	98.4, 98.4
100	0	0	0	0	0.0645	0.0644	0.0599	0.0553	90-100	0.0070	1219	98.4, 98.4
110	0.2339	0.2156	0.2247	0.2384	0.3773	0.3773	0.3772	0.3589	100-110	0.1427	1220	98.4, 98.4
120	0.9453	0.9220	0.9220	0.9407	1.196	1.219	1.219	1.173	110-120	0.6151	1220	98.5, 98.5
130	2.776	2.712	2.716	2.776	3.146	3.196	3.206	3.118	120-130	1.659	1222	98.6, 98.6
140	6.027	5.871	5.890	6.037	6.445	6.445	6.366	6.325	130-140	3.465	1225	98.9, 98.9
150	8.818	8.570	8.886	8.749	9.328	9.309	9.406	9.204	140-150	4.780	1230	99.3, 99.3
160	10.62	10.32	10.72	10.49	11.06	11.00	11.34	10.87	150-160	4.579	1235	99.6, 99.6
170	12.34	12.24	12.40	12.55	12.71	12.68	12.60	12.42	160-170	3.273	1238	99.9, 99.9
180	13.91	14.08	13.88	14.02	13.94	14.08	13.88	14.02	170-180	1.248	1239	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2025-05-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.880m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:231.13V I:0.0545A P:12.234W PF:0.9712 Freq:49.99Hz Lamp Flux:1239.16x1 lm		
NAME: DL2082-BKTC15C01	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 75mm	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1171	563
80	1266	1009
75	2040	1904
70	3023	2878
65	3436	3302
60	3912	3738
55	4541	4442
50	6166	6097
45	13213	13521

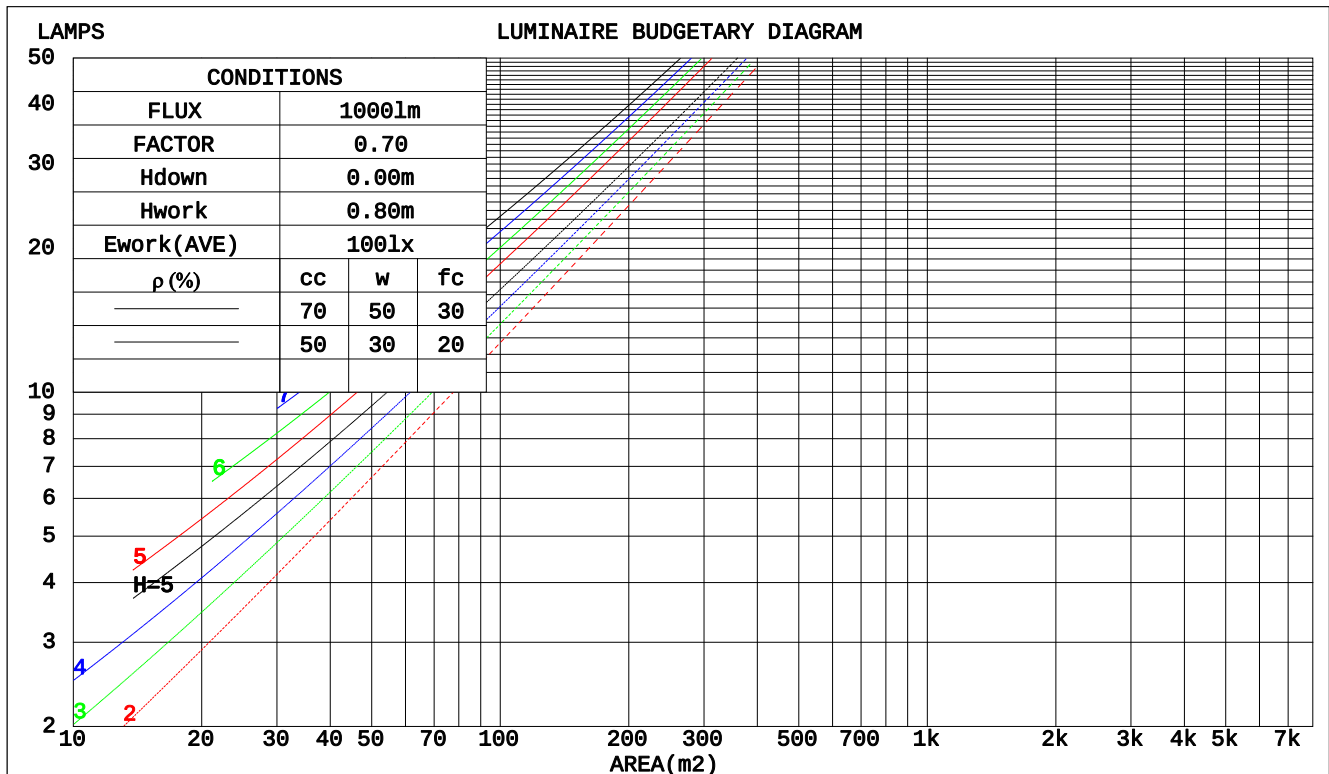
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2025-05-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity: 65.0%
Test Distance: 7.880m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:231.13V I:0.0545A P:12.234W PF:0.9712 Freq:49.99Hz Lamp Flux:1239.16x1 lm		
NAME: DL2082-BKTC15C01	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 75mm	Shielding 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	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	.98
1.0	1.10	1.07	1.05	1.08	1.05	1.03	1.03	1.01	.99	.99	.98	.97	.96	.95	.93	.92
2.0	1.02	.98	.94	1.00	.96	.93	.97	.93	.91	.93	.91	.89	.90	.88	.86	.85
3.0	.95	.89	.85	.93	.88	.84	.90	.86	.83	.88	.84	.81	.85	.82	.80	.78
4.0	.88	.82	.78	.87	.81	.77	.84	.80	.76	.82	.78	.75	.80	.77	.74	.72
5.0	.82	.76	.71	.81	.75	.71	.79	.74	.70	.77	.73	.69	.75	.72	.69	.67
6.0	.76	.70	.66	.76	.70	.65	.74	.69	.65	.72	.68	.64	.71	.67	.64	.62
7.0	.71	.65	.61	.71	.65	.61	.69	.64	.60	.68	.63	.60	.67	.62	.59	.58
8.0	.67	.61	.56	.66	.60	.56	.65	.60	.56	.64	.59	.56	.63	.58	.55	.54
9.0	.63	.57	.53	.62	.56	.52	.61	.56	.52	.60	.55	.52	.59	.55	.52	.50
10.0	.59	.53	.49	.59	.53	.49	.58	.52	.49	.57	.52	.49	.56	.52	.48	.47



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2025-05-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity: 65.0%
Test Distance: 7.880m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:231.13V I:0.0545A P:12.234W PF:0.9712 Freq:49.99Hz Lamp Flux:1239.16x1 lm					
NAME: DL2082-BKTC15C01			TYPE:		WEIGHT:
SPEC.: black RA90 3000K+5000K			DIM.:		SERIAL No.:
MFR.:			SUR.: 75mm		Shielding 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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.185	.105	.033	.178	.101	.032	.164	.094	.030	.152	.088	.028	.140	.081	.026	
2.0	.178	.098	.030	.172	.095	.029	.160	.089	.028	.150	.084	.026	.140	.079	.025	
3.0	.170	.091	.027	.165	.088	.027	.155	.084	.026	.146	.080	.024	.137	.076	.024	
4.0	.162	.084	.025	.158	.083	.024	.149	.079	.024	.141	.076	.023	.134	.073	.022	
5.0	.155	.079	.023	.151	.077	.023	.143	.075	.022	.136	.072	.021	.130	.069	.021	
6.0	.148	.074	.021	.145	.073	.021	.138	.071	.021	.131	.068	.020	.126	.066	.020	
7.0	.142	.070	.020	.138	.069	.020	.132	.067	.019	.127	.065	.019	.121	.063	.019	
8.0	.136	.066	.019	.133	.065	.018	.127	.064	.018	.122	.062	.018	.117	.060	.018	
9.0	.130	.063	.018	.127	.062	.017	.123	.061	.017	.118	.059	.017	.114	.058	.017	
10.0	.125	.060	.017	.122	.059	.016	.118	.058	.016	.114	.056	.016	.110	.055	.016	

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.203	.203	.203	.173	.173	.173	.118	.118	.118	.068	.068	.068	.022	.022	.022	
1.0	.184	.169	.156	.157	.145	.135	.108	.100	.093	.062	.058	.054	.020	.019	.018	
2.0	.169	.145	.124	.145	.125	.107	.099	.086	.075	.057	.050	.044	.018	.016	.014	
3.0	.158	.126	.101	.135	.109	.087	.093	.076	.061	.054	.044	.036	.017	.014	.012	
4.0	.148	.112	.084	.127	.096	.073	.087	.067	.051	.050	.039	.030	.016	.013	.010	
5.0	.140	.100	.071	.120	.087	.062	.083	.060	.044	.048	.036	.026	.015	.012	.009	
6.0	.133	.091	.061	.114	.079	.053	.079	.055	.038	.046	.032	.022	.015	.011	.007	
7.0	.126	.084	.054	.109	.072	.047	.075	.051	.033	.044	.030	.020	.014	.010	.007	
8.0	.121	.077	.048	.104	.067	.042	.072	.047	.029	.042	.028	.018	.014	.009	.006	
9.0	.116	.072	.043	.100	.063	.038	.069	.044	.027	.040	.026	.016	.013	.009	.005	
10.0	.112	.068	.039	.096	.059	.034	.067	.042	.024	.039	.025	.015	.013	.008	.005	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2025-05-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.880m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:231.13V I:0.0545A P:12.234W PF:0.9712 Freq:49.99Hz Lamp Flux:1239.16x1 lm											
NAME: DL2082-BKTC15C01					TYPE:			WEIGHT:			
SPEC.: black RA90 3000K+5000K					DIM.:			SERIAL No.:			
MFR.:					SUR.: 75mm			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	21.0	22.0	21.2	22.2	22.4	21.1	22.1	21.3	22.3	22.5	
	3H	20.8	21.7	21.1	21.9	22.2	20.9	21.8	21.2	22.1	22.3
	4H	20.7	21.6	21.0	21.8	22.1	20.8	21.7	21.2	22.0	22.2
	6H	20.6	21.4	21.0	21.7	22.0	20.8	21.6	21.1	21.8	22.1
	8H	20.6	21.3	20.9	21.6	21.9	20.7	21.5	21.0	21.8	22.1
	12H	20.5	21.3	20.9	21.6	21.9	20.7	21.4	21.0	21.7	22.0
4H	2H	20.7	21.6	21.0	21.8	22.1	20.8	21.7	21.1	21.9	22.2
	3H	20.5	21.3	20.9	21.6	21.9	20.7	21.4	21.0	21.7	22.0
	4H	20.5	21.1	20.8	21.5	21.8	20.6	21.3	21.0	21.6	21.9
	6H	20.4	20.9	20.8	21.3	21.7	20.5	21.1	20.9	21.4	21.8
	8H	20.3	20.9	20.7	21.2	21.6	20.4	21.0	20.9	21.4	21.8
	12H	20.3	20.8	20.7	21.2	21.6	20.4	20.9	20.8	21.3	21.7
8H	4H	20.3	20.9	20.7	21.2	21.6	20.4	21.0	20.9	21.4	21.8
	6H	20.2	20.7	20.7	21.1	21.5	20.3	20.8	20.8	21.2	21.7
	8H	20.2	20.6	20.6	21.0	21.5	20.3	20.7	20.8	21.1	21.6
	12H	20.1	20.4	20.6	20.9	21.4	20.2	20.6	20.7	21.0	21.5
12H	4H	20.3	20.8	20.7	21.2	21.6	20.4	20.9	20.8	21.3	21.7
	6H	20.2	20.6	20.6	21.0	21.5	20.3	20.7	20.8	21.1	21.6
	8H	20.1	20.4	20.6	20.9	21.4	20.2	20.6	20.7	21.0	21.5
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H	+ 3.1 / -12.8					+ 3.1 / -13.1					
1.5H	+ 5.9 / -11.8					+ 5.9 / -12.1					
2.0H	+ 4.2 / - 1.7					+ 4.5 / - 1.8					

CIE Pub.117, 1239 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.7)
Area: 0.00442 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2025-05-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.880m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:231.13V I:0.0545A P:12.234W PF:0.9712 Freq:49.99Hz Lamp Flux:1239.16x1 lm		
NAME: DL2082-BKTC15C01	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 75mm	Shielding Angle:

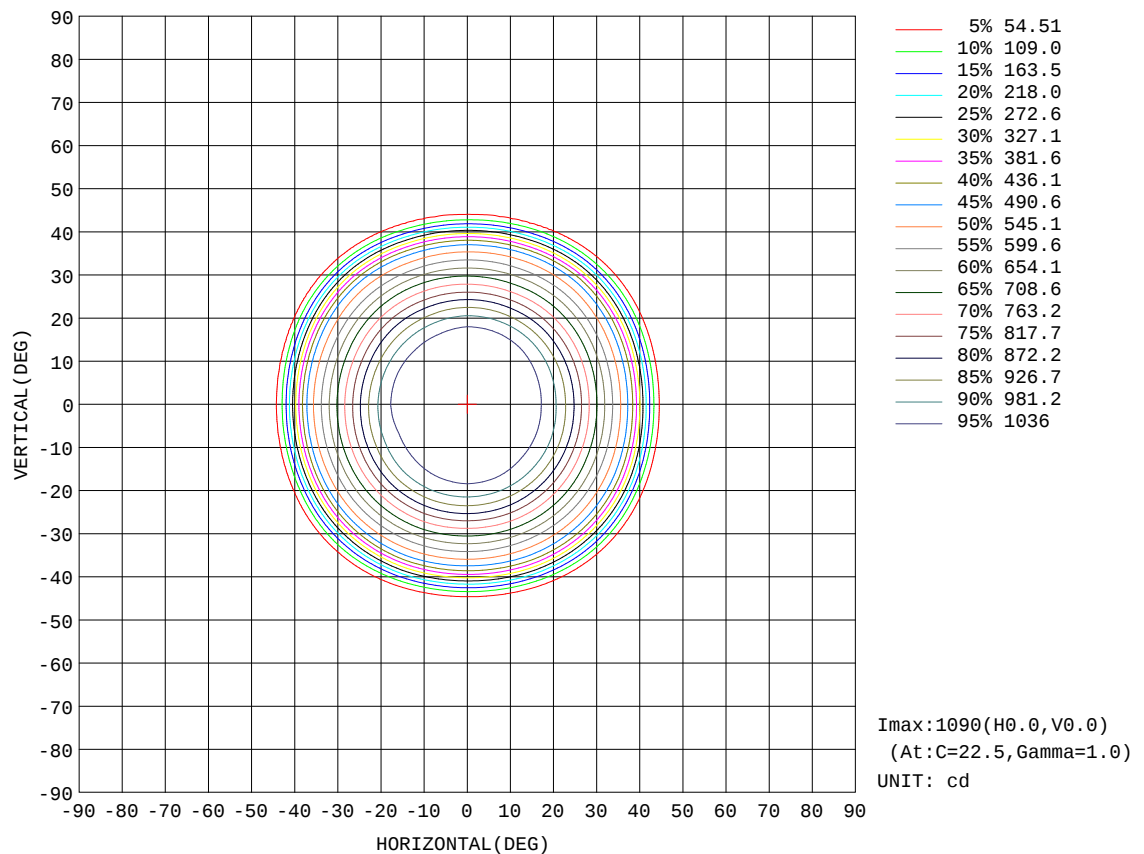
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	86	80	76	86	80	76	85	79	76	72
0.80	94	88	84	93	87	84	92	87	83	80
1.00	98	93	89	97	92	89	96	92	88	84
1.25	102	97	94	101	96	93	99	95	92	88
1.50	105	100	97	104	100	96	101	98	95	90
2.00	108	104	100	106	103	100	103	100	98	92
2.50	110	106	103	108	104	102	105	102	100	93
3.00	111	108	105	109	106	104	106	103	101	95
4.00	113	110	108	111	109	107	107	105	104	96
5.00	115	112	110	112	110	109	108	107	105	97
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:25DEG
Operators:
Test Date:2025-05-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.880m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:231.13V I:0.0545A P:12.234W PF:0.9712 Freq:49.99Hz Lamp Flux:1239.16x1 lm		
NAME: DL2082-BKTC15C01	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 75mm	Shielding Angle:

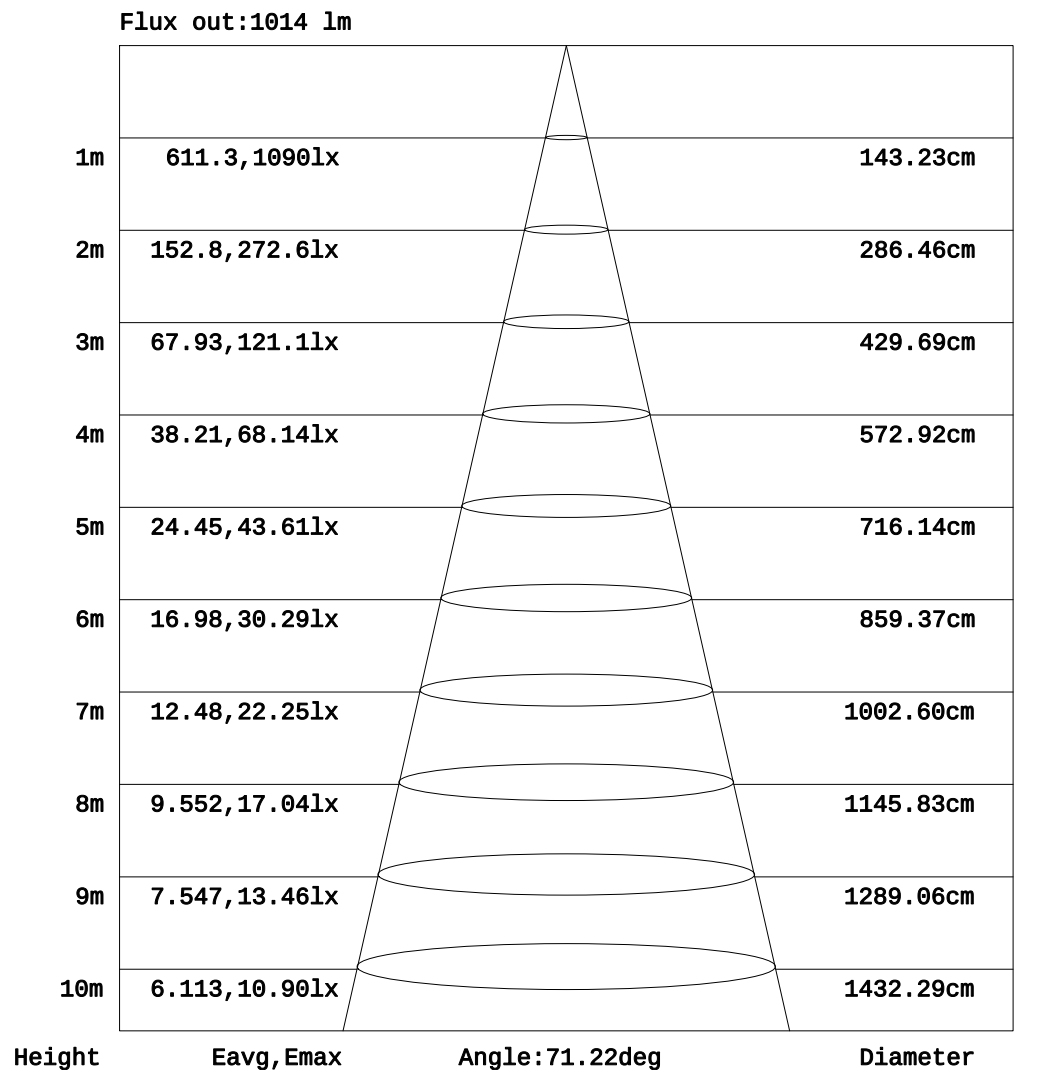


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2025-05-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.880m [K=1.0000]
Remarks:

AAI Figure

Test:U:231.13V I:0.0545A P:12.234W PF:0.9712 Freq:49.99Hz Lamp Flux:1239.16x1 lm		
NAME: DL2082-BKTC15C01	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 75mm	Shielding Angle:



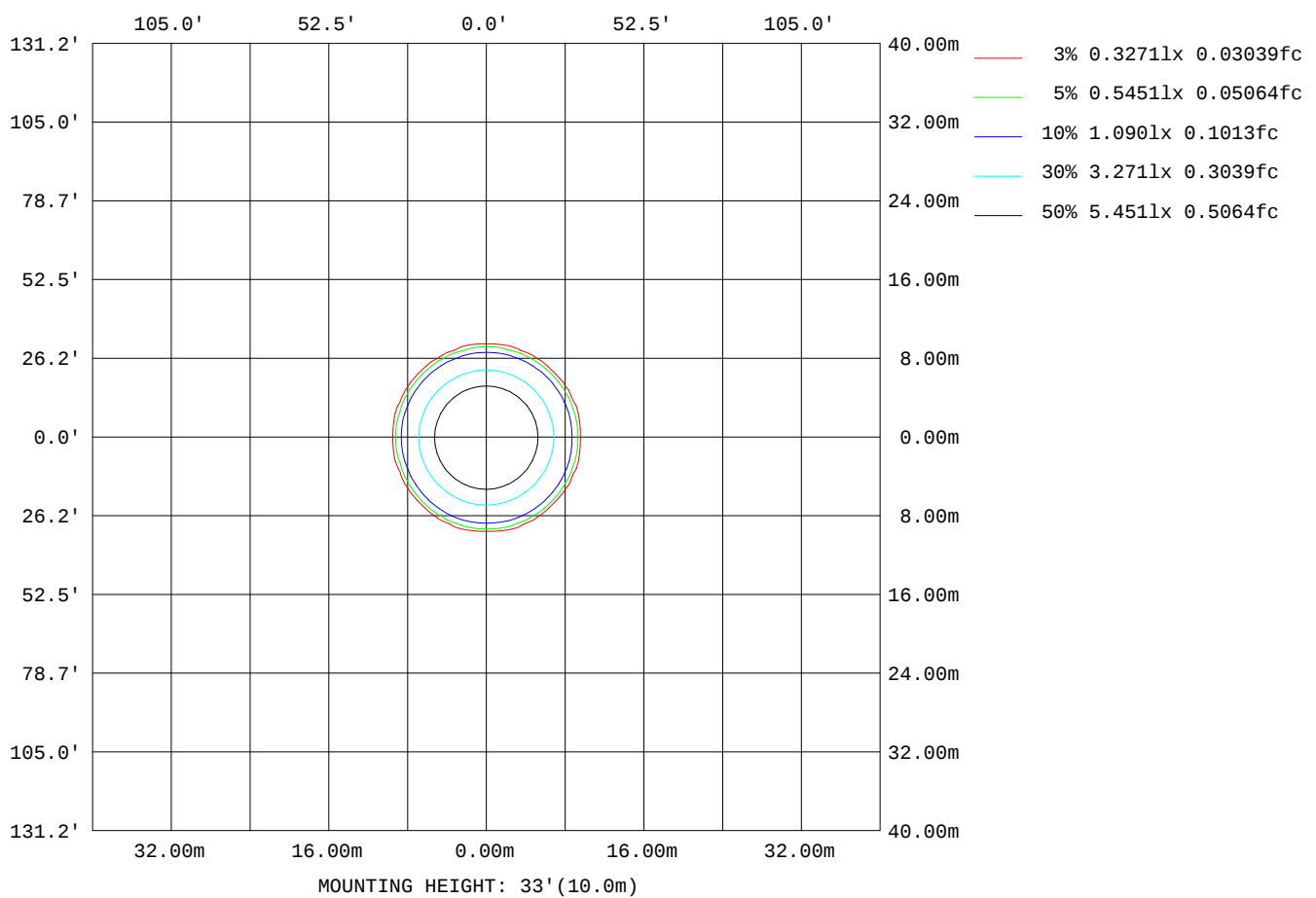
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2025-05-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
 Humidity: 65.0%
 Test Distance: 7.880m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:231.13V I:0.0545A P:12.234W PF:0.9712 Freq:49.99Hz Lamp Flux:1239.16x1 lm		
NAME: DL2082-BKTC15C01	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 75mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2025-05-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.880m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:231.13V I:0.0545A P:12.234W PF:0.9712 Freq:49.99Hz Lamp Flux:1239.16x1 lm		
NAME: DL2082-BKTC15C01	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 75mm	Shielding Angle:

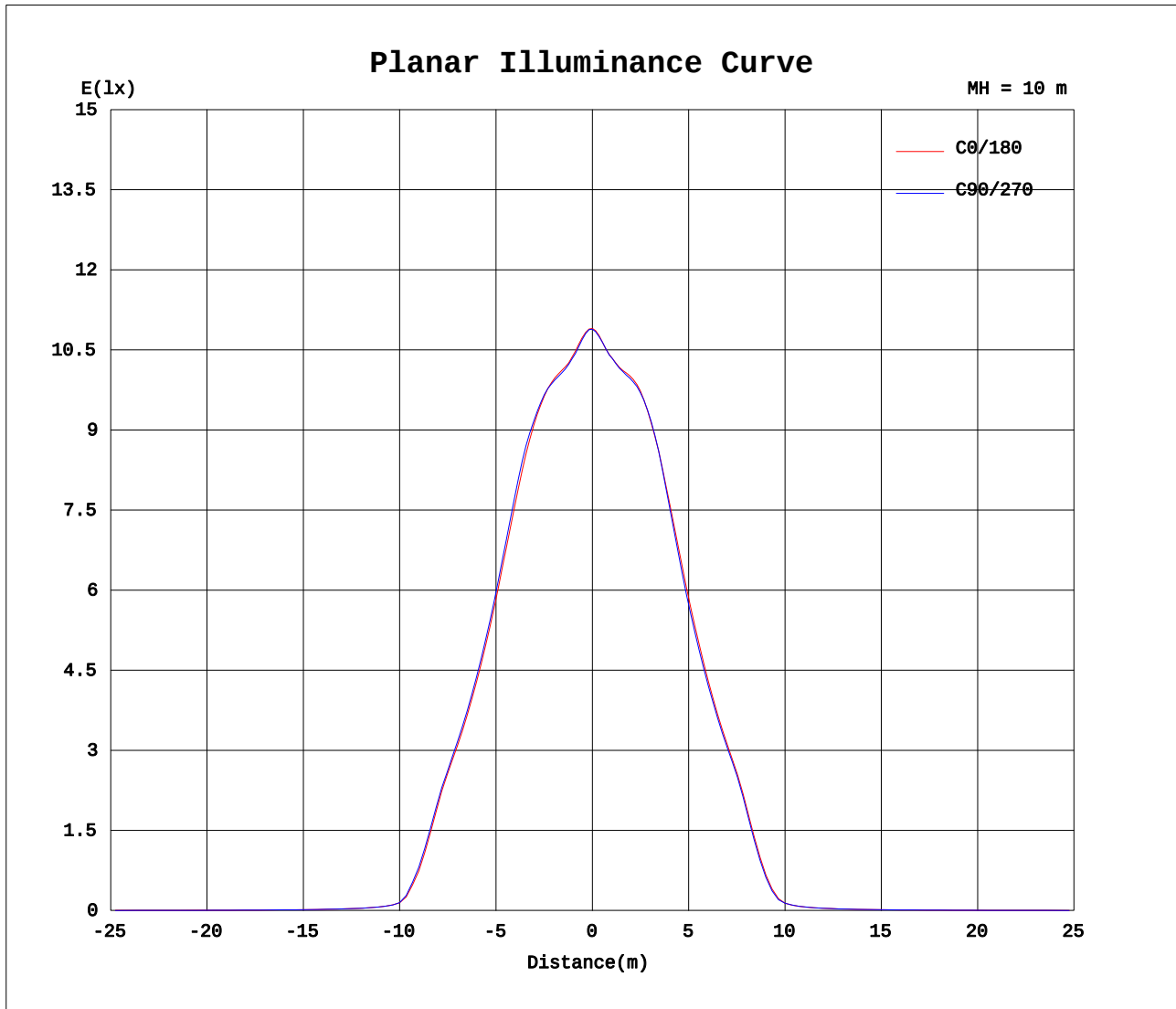
AvgL	cd/m2
L_0~180(65)av	3307
L_0~180(75)av	1878
L_0~180(85)av	745
L_90~270(65)av	3277
L_90~270(75)av	1862
L_90~270(85)av	608
L_45(65)av	3282
L_45(75)av	1856
L_45(85)av	671

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2025-05-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
 Humidity:65.0%
 Test Distance:7.880m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2025-05-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
 Humidity: 65.0%
 Test Distance: 7.880m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:231.13V I:0.0545A P:12.234W PF:0.9712 Freq:49.99Hz Lamp Flux:1239.16x1 lm																	
NAME: DL2082-BKTC15C01									TYPE:						WEIGHT:		
SPEC.: black RA90 3000K+5000K									DIM.:						SERIAL No.:		
MFR.:									SUR.: 75mm						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	1090	1090	1090	1089	1089	1088	1088	1086	1090	1090	1090	1089	1089	1088	1088	1086			
5	1060	1057	1055	1054	1056	1058	1058	1052	1054	1052	1051	1052	1053	1053	1057	1057			
10	1052	1053	1054	1052	1048	1044	1043	1046	1054	1057	1056	1054	1050	1047	1046	1047			
15	1051	1049	1053	1058	1056	1050	1047	1049	1061	1063	1059	1058	1061	1059	1058	1053			
20	994	1001	1004	1011	1015	1014	1007	1000	998	992	988	988	994	995	998	996			
25	865	871	876	882	884	885	882	873	866	857	855	849	848	850	858	862			
30	711	713	722	725	726	727	724	718	715	708	706	702	700	699	707	709			
35	562	566	569	572	575	575	570	566	566	557	556	551	555	557	562	561			
40	328	343	343	352	346	340	317	305	310	299	297	288	296	300	316	322			
45	41.3	42.6	43.0	45.1	42.3	41.2	39.4	38.1	39.0	39.0	38.6	38.0	39.0	38.1	39.3	41.4			
50	17.5	17.8	17.5	17.3	17.3	17.2	17.1	16.8	17.1	16.9	16.7	16.7	17.1	17.4	17.7	17.5			
55	11.5	11.6	11.5	11.5	11.3	11.2	11.0	10.9	10.9	10.8	10.8	10.8	10.9	11.1	11.3	11.4			
60	8.65	8.71	8.64	8.51	8.26	8.15	8.11	8.03	8.07	8.05	8.14	8.18	8.28	8.31	8.43	8.55			
65	6.42	6.43	6.40	6.22	6.17	6.04	5.98	5.93	5.94	5.95	5.94	6.03	6.07	6.17	6.20	6.32			
70	4.57	4.56	4.52	4.46	4.35	4.31	4.25	4.13	4.05	4.01	4.10	4.10	4.23	4.34	4.51	4.53			
75	2.33	2.35	2.28	2.24	2.18	2.15	2.01	1.95	1.96	1.92	1.89	1.97	2.08	2.18	2.32	2.36			
80	0.97	0.93	0.90	0.82	0.77	0.70	0.66	0.60	0.60	0.63	0.62	0.70	0.75	0.86	0.90	0.99			
85	0.45	0.36	0.36	0.24	0.22	0.12	0.16	0.11	0.12	0.17	0.14	0.24	0.25	0.36	0.37	0.46			
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.01	0.00			
100	0.00	0.03	0.00	0.03	0.00	0.03	0.00	0.04	0.06	0.01	0.06	0.01	0.06	0.00	0.06	0.00			
105	0.06	0.12	0.06	0.11	0.07	0.12	0.07	0.12	0.17	0.12	0.18	0.13	0.17	0.13	0.17	0.12			
110	0.23	0.28	0.22	0.27	0.22	0.28	0.24	0.29	0.38	0.33	0.38	0.33	0.38	0.33	0.36	0.30			
115	0.50	0.54	0.48	0.52	0.49	0.54	0.50	0.56	0.69	0.65	0.70	0.67	0.70	0.65	0.68	0.61			
120	0.95	0.97	0.92	0.96	0.92	0.96	0.94	0.99	1.20	1.17	1.22	1.18	1.22	1.16	1.17	1.12			
125	1.62	1.63	1.58	1.60	1.58	1.63	1.63	1.68	1.97	1.96	2.00	1.98	2.01	1.96	1.94	1.88			
130	2.78	2.75	2.71	2.71	2.72	2.75	2.78	2.83	3.15	3.16	3.20	3.21	3.21	3.16	3.12	3.06			
135	4.31	4.23	4.21	4.21	4.24	4.29	4.34	4.38	4.74	4.75	4.78	4.78	4.76	4.72	4.67	4.57			
140	6.03	5.87	5.87	5.85	5.89	5.97	6.04	6.06	6.44	6.40	6.44	6.42	6.37	6.36	6.33	6.20			
145	7.55	7.36	7.35	7.39	7.51	7.51	7.55	7.58	8.03	7.97	8.05	8.00	8.02	7.94	7.93	7.73			
150	8.82	8.62	8.57	8.69	8.89	8.81	8.75	8.86	9.33	9.23	9.31	9.37	9.41	9.30	9.20	8.97			
155	9.76	9.57	9.47	9.64	9.88	9.80	9.64	9.84	10.3	10.1	10.2	10.4	10.5	10.3	10.1	9.84			
160	10.6	10.4	10.3	10.5	10.7	10.7	10.5	10.8	11.1	11.0	11.0	11.2	11.3	11.1	10.9	10.6			
165	11.5	11.3	11.2	11.4	11.6	11.5	11.5	11.7	11.9	11.8	11.8	12.0	12.1	11.9	11.6	11.5			
170	12.3	12.3	12.2	12.4	12.4	12.4	12.5	12.7	12.7	12.8	12.7	12.6	12.6	12.5	12.4	12.4			
175	13.2	13.2	13.3	13.3	13.2	13.3	13.5	13.6	13.4	13.6	13.6	13.4	13.2	13.3	13.4	13.2			
180	13.9	13.9	14.1	13.9	13.9	13.8	14.0	13.9	13.9	13.9	14.1	13.9	13.9	13.8	14.0	13.8			

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