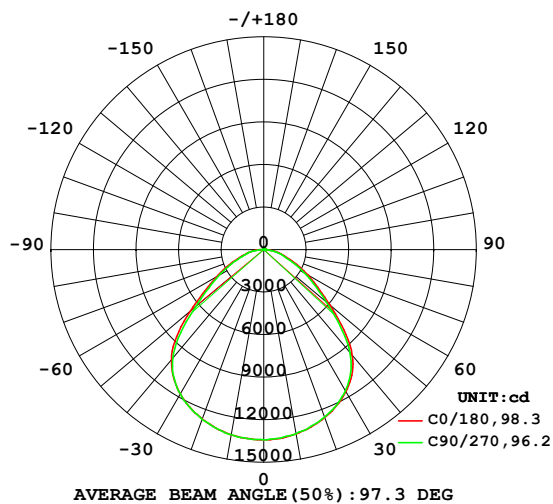


LUMINAIRE PHOTOMETRIC TEST REPORT

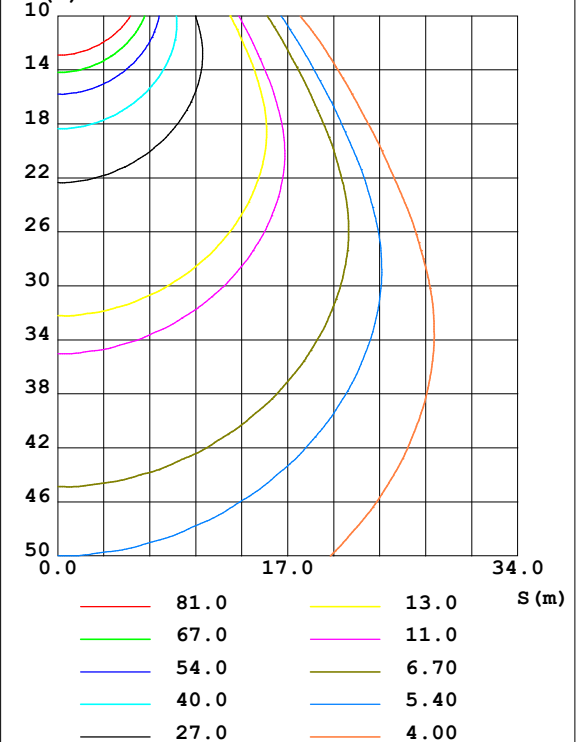
Test:U:120.04V I:1.8344A P:220.12W PF:0.9950 Freq:60.47Hz Lamp Flux:33111.8x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:Havells Lighting LLC	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 150.43 lm/W			
MODEL	HL-LHB-MW-MCCT-220W-GEN2	I _{max} (cd)	13430	S/MH (C0/180)	1.30
NOMINAL POWER (W)	220	LOR (%)	100.0	S/MH (C90/270)	1.30
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	33112	η UP, DN (C0-180)	0.6, 48.4
NOMINAL FLUX (lm)	33111.8	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.5, 50.5
LAMPS INSIDE	1	η up (%)	1.1	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120	η down (%)	98.9	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: 25.3DEG
Operators:
Test Date: 2026-01-04

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity: 65.0%
Test Distance: 7.450m [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	1321	1317	1317	1322	1327	1325	1325	1328	0- 10	1271	1271	3.84,3.84
20	1259	1260	1256	1262	1270	1276	1273	1273	10- 20	3669	4941	14.9,14.9
30	1159	1152	1151	1159	1177	1177	1177	1176	20- 30	5635	10576	31.9,31.9
40	972.0	944.7	945.0	962.4	1014	1002	999.8	985.7	30- 40	6783	17359	52.4,52.4
50	609.6	655.7	579.9	660.9	675.1	707.5	628.4	689.5	40- 50	6290	23649	71.4,71.4
60	359.9	370.3	333.3	377.9	384.4	414.8	363.4	402.4	50- 60	4485	28134	85,85
70	186.1	184.8	166.9	190.3	199.4	206.9	184.1	202.1	60- 70	2726	30860	93.2,93.2
80	86.45	85.62	73.23	90.54	96.82	101.1	90.03	98.94	70- 80	1453	32313	97.6,97.6
90	1.394	1.445	1.383	1.439	4.356	2.251	1.828	1.540	80- 90	432.2	32745	98.9,98.9
100	2.516	2.524	2.355	2.430	2.262	2.229	2.107	2.286	90-100	19.82	32765	99,99
110	4.063	4.030	3.902	3.904	3.698	3.614	3.536	3.701	100-110	32.13	32797	99,99
120	5.844	5.765	5.685	5.580	5.412	5.245	5.265	5.399	110-120	46.17	32843	99.2,99.2
130	7.491	7.367	7.318	7.204	7.083	6.855	6.946	7.049	120-130	56.88	32900	99.4,99.4
140	8.896	8.810	8.731	8.608	8.515	8.281	8.352	8.502	130-140	60.89	32961	99.5,99.5
150	10.02	10.04	9.969	9.840	9.684	9.537	9.641	9.759	140-150	57.65	33019	99.7,99.7
160	11.25	11.21	11.12	11.15	10.89	10.82	10.80	10.97	150-160	47.98	33067	99.9,99.9
170	12.62	12.36	12.49	12.52	12.35	12.24	12.20	12.25	160-170	33.02	33100	100,100
180	13.07	12.96	13.06	13.00	13.12	12.95	13.05	13.03	170-180	12.10	33112	100,100
DEG	LUMINOUS INTENSITY:X10cd									UNIT:lm		

Conical surface Flux(90deg): 20690 lm

%lum = 62.5%

%lamp = 62.5%

Conical surface Flux(130deg): 29697 lm

%lum = 89.7%

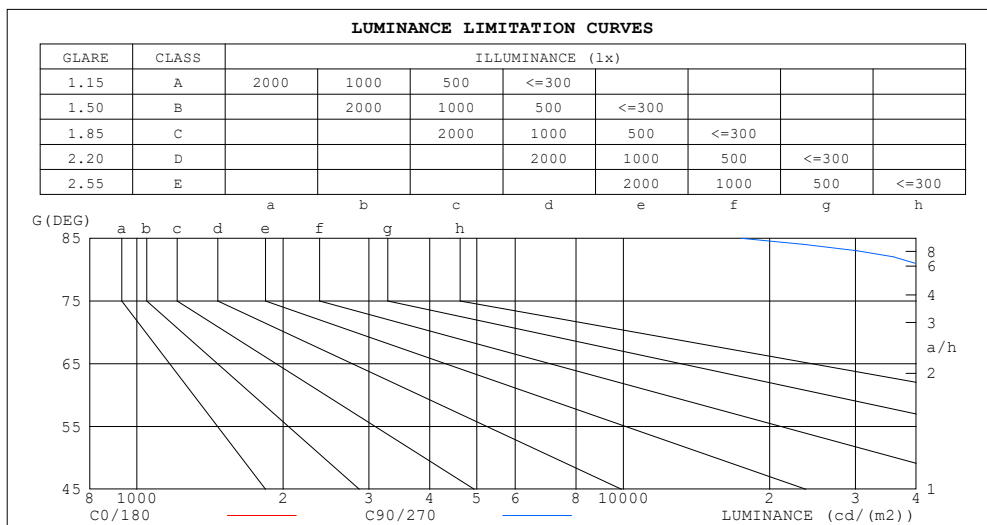
%lamp = 89.7%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2026-01-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:7.450m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.04V I:1.8344A P:220.12W PF:0.9950 Freq:60.47Hz Lamp Flux:33111.8x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



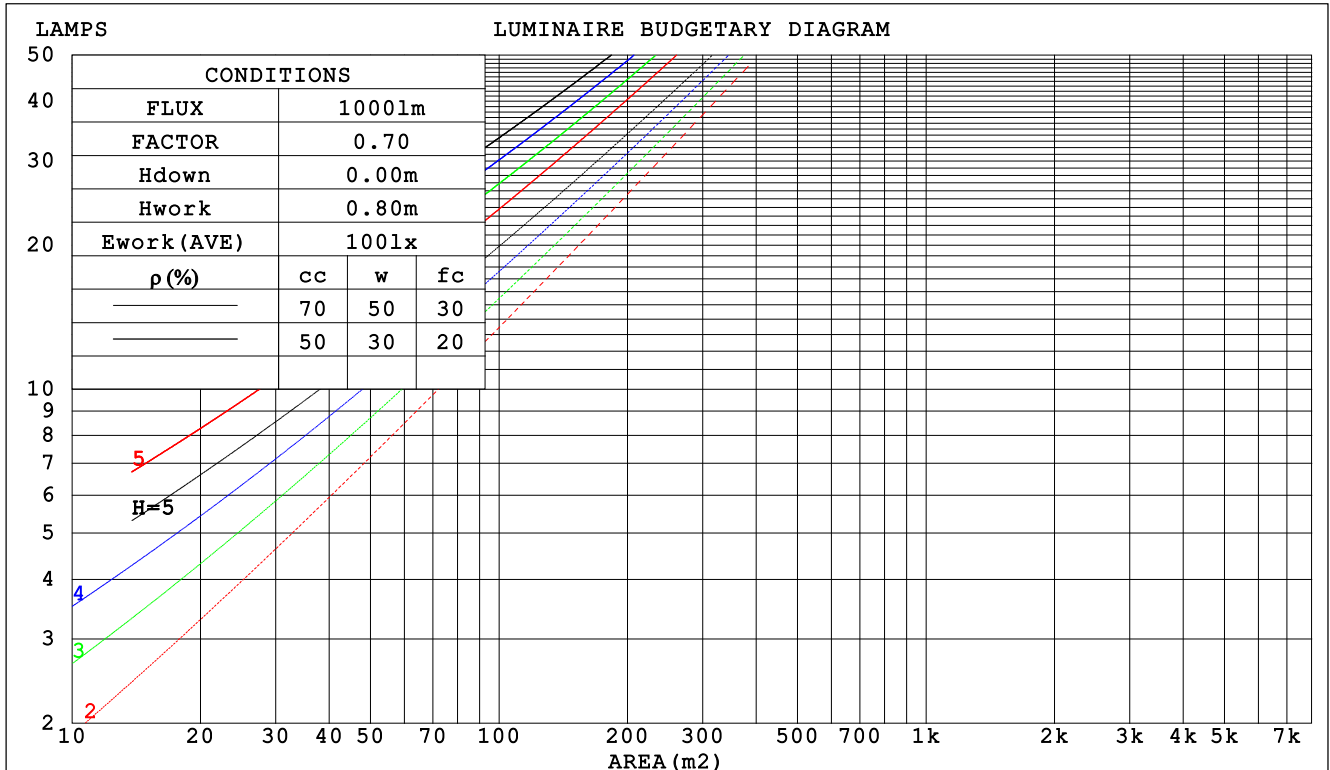
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-01-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity: 65.0%
Test Distance: 7.450m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.04V I:1.8344A P:220.12W PF:0.9950 Freq:60.47Hz Lamp Flux:33111.8x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p _{fc}	20%			20%			20%			20%			20%			0
RCR	Coefficients of Utilization(CU)															
RCR:Room Cavity Ratio																
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.10	1.10	1.06	1.06	1.06	1.01	1.01	1.01	.99
1.0	1.05	1.02	.98	1.03	.90	.96	.99	.96	.93	.95	.92	.90	.91	.89	.87	.85
2.0	.93	.87	.82	.91	.86	.81	.88	.83	.79	.84	.80	.77	.81	.78	.75	.73
3.0	.83	.75	.69	.81	.74	.69	.78	.72	.67	.75	.70	.66	.73	.68	.65	.63
4.0	.74	.66	.60	.73	.65	.59	.70	.63	.58	.68	.62	.57	.65	.61	.57	.54
5.0	.67	.58	.52	.65	.58	.52	.63	.56	.51	.61	.55	.50	.59	.54	.50	.48
6.0	.60	.52	.46	.59	.51	.46	.57	.50	.45	.56	.49	.45	.54	.49	.44	.42
7.0	.55	.47	.41	.54	.46	.41	.52	.45	.40	.51	.45	.40	.50	.44	.40	.38
8.0	.50	.42	.37	.50	.42	.36	.48	.41	.36	.47	.40	.36	.46	.40	.36	.34
9.0	.46	.38	.33	.46	.38	.33	.44	.38	.33	.43	.37	.32	.42	.36	.32	.30
10.0	.43	.35	.30	.42	.35	.30	.41	.34	.30	.40	.34	.30	.39	.34	.29	.28



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-01-04

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:120.04V I:1.8344A P:220.12W PF:0.9950 Freq:60.47Hz Lamp Flux:33111.8x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	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	.276	.157	.050	.269	.154	.049	.255	.147	.047	.243	.140	.045	.231	.134	.043		
2.0	.263	.144	.044	.257	.141	.044	.245	.136	.042	.234	.131	.041	.223	.126	.040		
3.0	.246	.131	.039	.241	.129	.039	.230	.125	.038	.220	.121	.037	.211	.117	.036		
4.0	.230	.119	.035	.225	.118	.035	.215	.114	.034	.207	.111	.033	.199	.108	.033		
5.0	.214	.109	.032	.210	.108	.031	.202	.105	.031	.194	.102	.030	.187	.100	.030		
6.0	.200	.100	.029	.196	.099	.029	.189	.097	.028	.182	.095	.028	.175	.092	.027		
7.0	.188	.093	.026	.184	.092	.026	.178	.090	.026	.171	.088	.026	.165	.086	.025		
8.0	.176	.086	.024	.173	.085	.024	.167	.084	.024	.162	.082	.024	.156	.080	.023		
9.0	.166	.080	.022	.163	.080	.022	.158	.078	.022	.153	.077	.022	.148	.075	.022		
10.0	.157	.075	.021	.154	.075	.021	.149	.073	.021	.145	.072	.020	.140	.071	.020		

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	.199	.199	.199	.170	.170	.170	.116	.116	.116	.067	.067	.067	.021	.021	.021	
1.0	.187	.165	.146	.160	.142	.125	.109	.097	.087	.063	.056	.050	.020	.018	.016	
2.0	.177	.141	.110	.152	.121	.095	.104	.084	.066	.060	.049	.039	.019	.016	.013	
3.0	.169	.123	.086	.144	.106	.075	.099	.074	.052	.057	.043	.031	.018	.014	.010	
4.0	.161	.109	.070	.138	.094	.061	.095	.066	.043	.055	.039	.025	.018	.013	.008	
5.0	.153	.099	.058	.132	.085	.051	.091	.060	.036	.053	.035	.021	.017	.011	.007	
6.0	.146	.090	.050	.126	.078	.043	.087	.055	.031	.050	.032	.018	.016	.011	.006	
7.0	.140	.083	.043	.120	.072	.038	.083	.051	.027	.048	.030	.016	.016	.010	.005	
8.0	.134	.077	.039	.115	.067	.034	.080	.047	.024	.046	.028	.014	.015	.009	.005	
9.0	.128	.072	.035	.110	.063	.030	.076	.044	.022	.045	.026	.013	.014	.009	.004	
10.0	.123	.068	.032	.106	.059	.028	.073	.042	.020	.043	.025	.012	.014	.008	.004	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2026-01-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:7.450m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.04V I:1.8344A P:220.12W PF:0.9950 Freq:60.47Hz Lamp Flux:33111.8x1 lm										
NAME:			TYPE:			WEIGHT:				
SPEC.:			DIM.:			SERIAL No.:				
MFR.:			SUR.:			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	27.8	29.2	28.1	29.4	29.6	27.6	29.0	27.8	29.2	29.4
3H	28.6	29.9	28.9	30.2	30.4	28.3	29.6	28.6	29.8	30.1
4H	29.0	30.2	29.3	30.5	30.7	28.6	29.8	28.9	30.1	30.4
6H	29.3	30.4	29.6	30.7	31.0	28.9	30.0	29.2	30.3	30.6
8H	29.4	30.5	29.8	30.8	31.1	28.9	30.1	29.3	30.3	30.7
12H	29.5	30.5	29.8	30.8	31.2	28.9	30.0	29.3	30.3	30.6
4H 2H	28.1	29.3	28.4	29.6	29.9	27.9	29.2	28.3	29.4	29.7
3H	29.1	30.2	29.5	30.5	30.8	28.9	29.9	29.2	30.2	30.6
4H	29.6	30.6	30.0	30.9	31.3	29.3	30.3	29.7	30.6	31.0
6H	30.1	30.9	30.5	31.3	31.7	29.7	30.6	30.1	30.9	31.3
8H	30.3	31.1	30.7	31.4	31.8	29.8	30.6	30.2	31.0	31.4
12H	30.4	31.1	30.8	31.5	31.9	29.8	30.5	30.3	30.9	31.4
8H 4H	29.8	30.6	30.2	31.0	31.4	29.5	30.3	29.9	30.7	31.1
6H	30.4	31.1	30.9	31.5	31.9	30.0	30.7	30.5	31.1	31.6
8H	30.7	31.3	31.1	31.7	32.2	30.2	30.8	30.7	31.2	31.7
12H	30.9	31.4	31.4	31.8	32.3	30.2	30.7	30.7	31.2	31.7
12H 4H	29.8	30.5	30.2	30.9	31.3	29.5	30.2	29.9	30.6	31.1
6H	30.4	31.0	30.9	31.5	31.9	30.1	30.7	30.6	31.1	31.6
8H	30.7	31.2	31.2	31.7	32.2	30.3	30.8	30.8	31.3	31.8
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.4 / - 0.4					+ 0.4 / - 0.5				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				
2.0H	+ 0.6 / - 0.6					+ 0.7 / - 0.8				

CIE Pub.117, 33112 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 12.2$)
Area: 0.1 m²

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-01-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.04V I:1.8344A P:220.12W PF:0.9950 Freq:60.47Hz Lamp Flux:33111.8x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

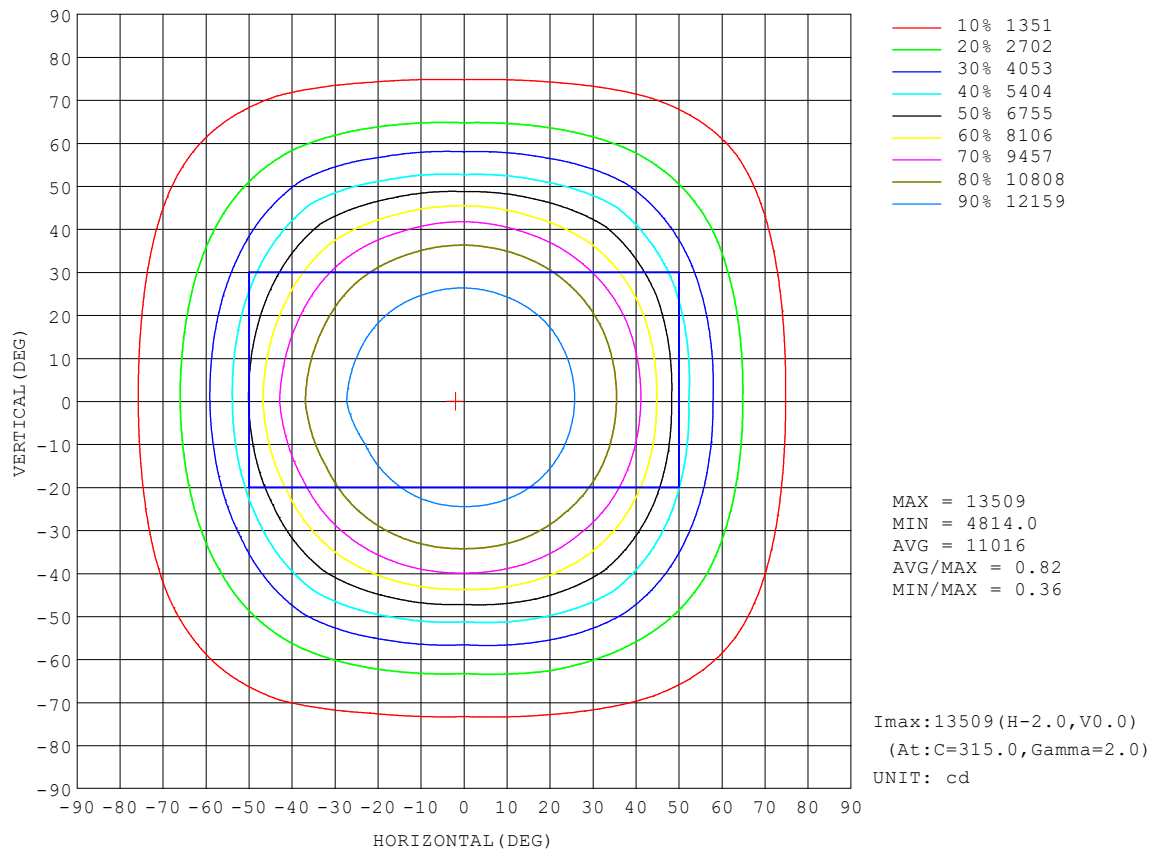
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	62	51	45	61	51	44	60	50	44	38
0.80	72	61	55	71	61	54	69	60	54	48
1.00	80	70	64	79	70	63	77	71	63	56
1.25	87	78	71	86	77	71	83	75	70	63
1.50	92	83	77	90	82	76	87	80	75	68
2.00	98	90	85	96	89	84	93	87	82	75
2.50	101	94	89	99	93	88	95	90	86	78
3.00	104	98	93	102	96	92	98	93	90	81
4.00	108	103	98	105	101	97	101	97	94	85
5.00	110	105	102	107	103	100	103	100	97	88
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: 25.3DEG
 Operators:
 Test Date: 2026-01-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity: 65.0%
 Test Distance: 7.450m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.04V I:1.8344A P:220.12W PF:0.9950 Freq:60.47Hz Lamp Flux:33111.8x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

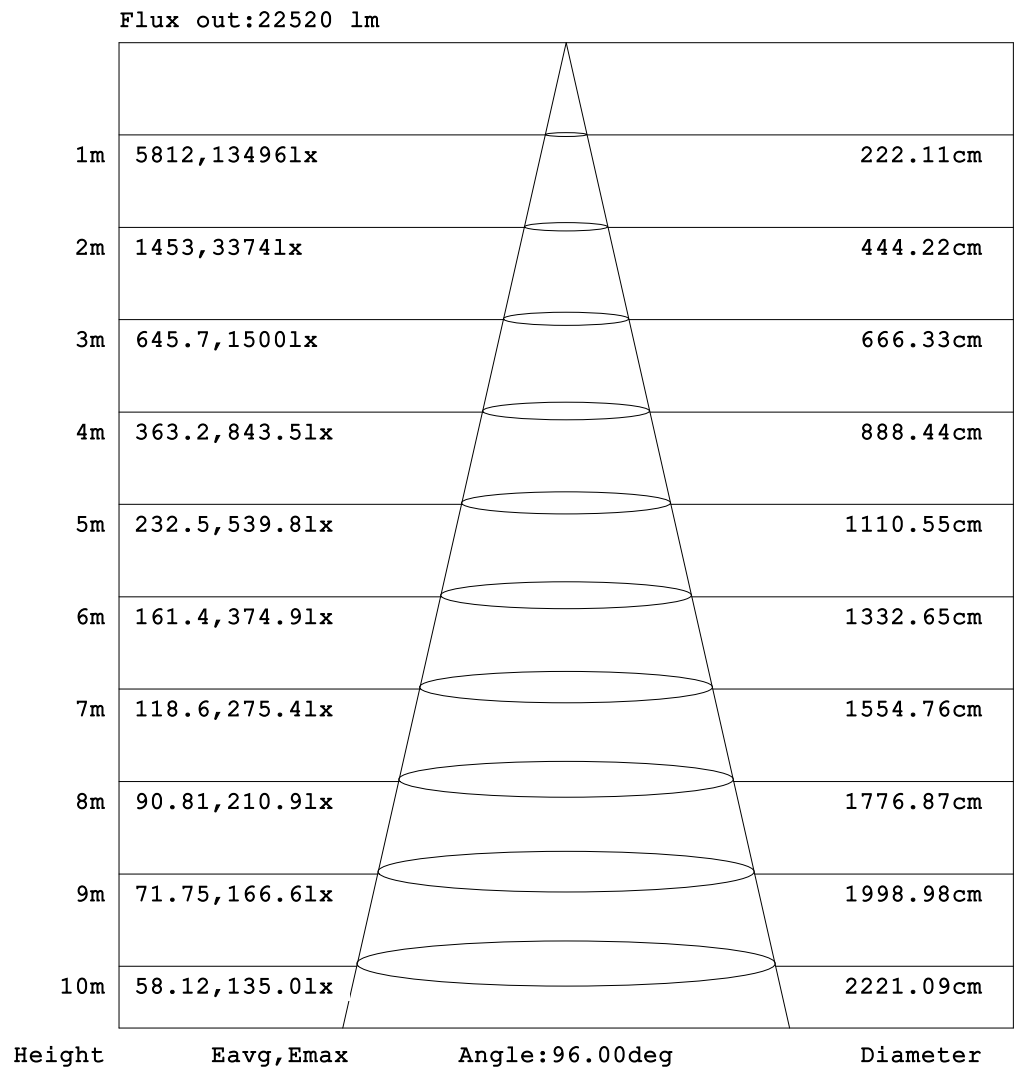


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-01-04

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

AAI Figure

Test:U:120.04V I:1.8344A P:220.12W PF:0.9950 Freq:60.47Hz Lamp Flux:33111.8x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



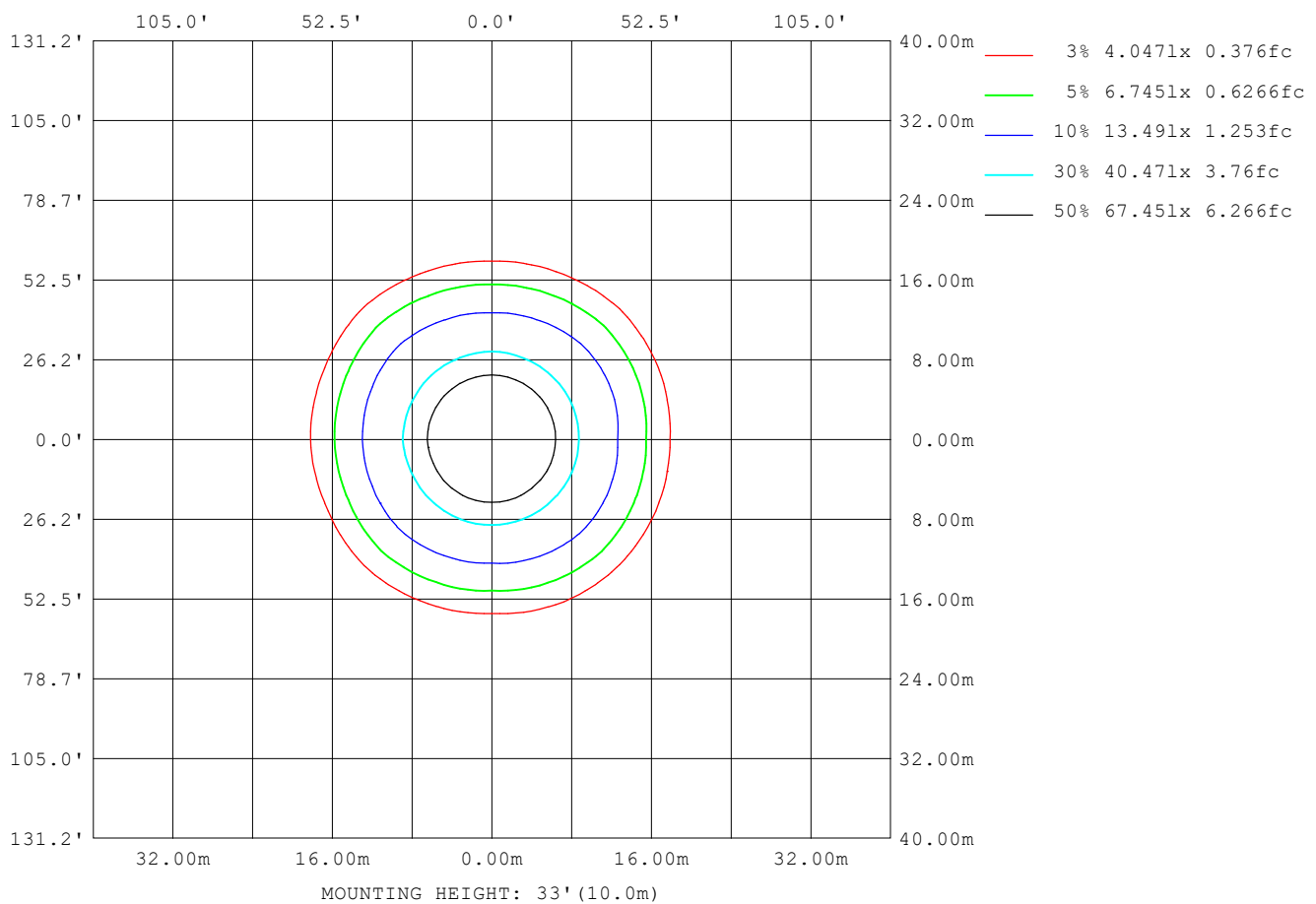
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-01-04

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity: 65.0%
Test Distance: 7.450m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:120.04V I:1.8344A P:220.12W PF:0.9950 Freq:60.47Hz Lamp Flux:33111.8x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-01-04

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.04V I:1.8344A P:220.12W PF:0.9950 Freq:60.47Hz Lamp Flux:33111.8x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

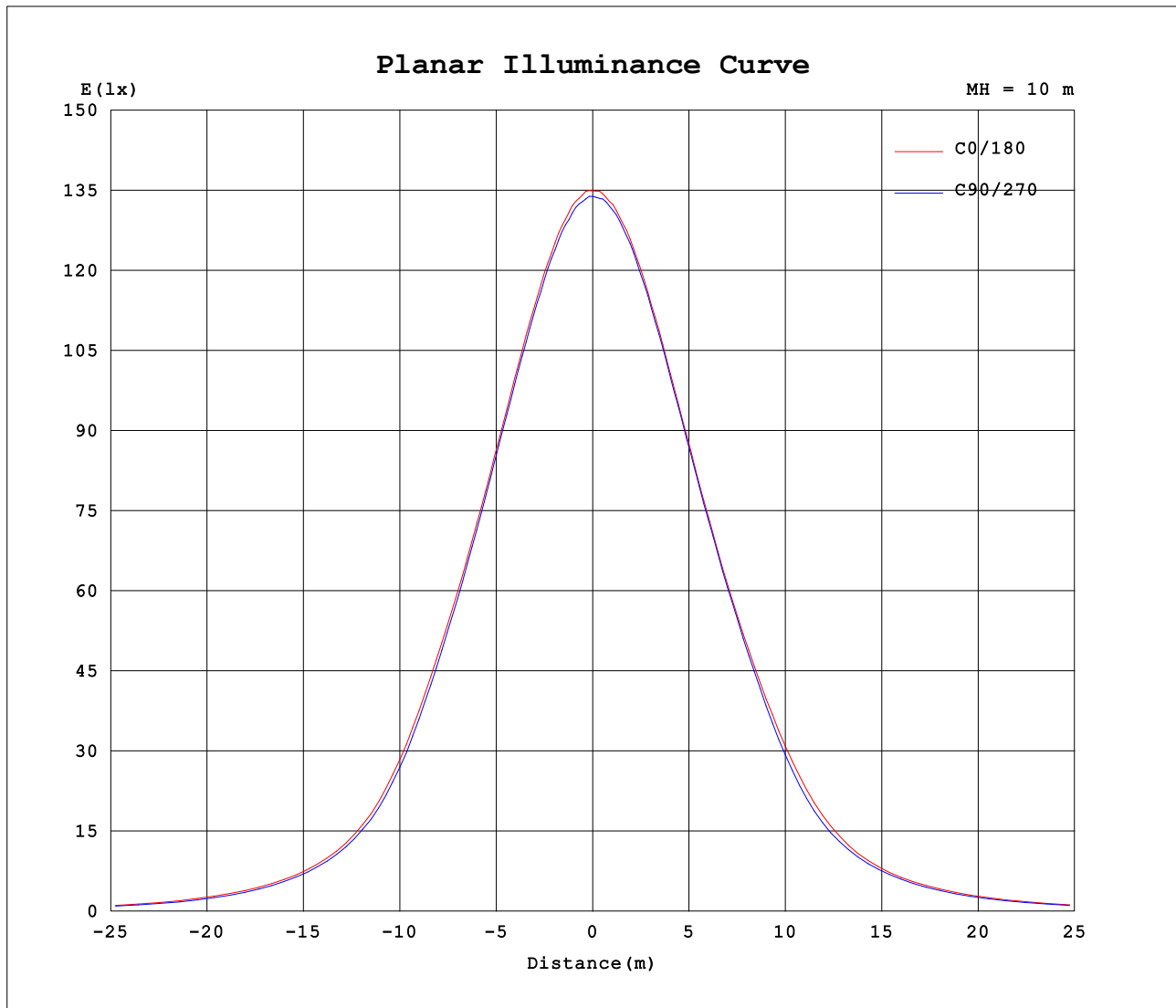
AvgL	cd/m2
L_0~180 (65) av	65408
L_0~180 (75) av	52841
L_0~180 (85) av	50088
L_90~270 (65) av	59705
L_90~270 (75) av	49048
L_90~270 (85) av	27987
L_45 (65) av	65806
L_45 (75) av	54086
L_45 (85) av	45938

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2026-01-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:7.450m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-01-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity: 65.0%
Test Distance: 7.450m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.04V I:1.8344A P:220.12W PF:0.9950 Freq:60.47Hz Lamp Flux:33111.8x1 lm																	
NAME:									TYPE:						WEIGHT:		
SPEC.:									DIM.:						SERIAL No.:		
MFR.:									SUR.:						Shielding Angle:		

Table--1

UNIT: X10cd

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	1341	1341	1341	1341	1341	1341	1341	1341	1341	1341	1341	1341	1341	1341	1341	1341			
5	1336	1334	1334	1336	1335	1335	1337	1335	1337	1339	1338	1338	1337	1336	1339	1338			
10	1321	1321	1317	1320	1317	1318	1322	1321	1327	1327	1325	1327	1325	1325	1328	1326			
15	1295	1297	1292	1294	1290	1292	1297	1297	1304	1303	1305	1306	1305	1304	1305	1301			
20	1259	1262	1260	1258	1256	1259	1262	1264	1270	1270	1276	1274	1273	1273	1273	1267			
25	1215	1216	1215	1215	1212	1215	1217	1219	1229	1230	1234	1230	1232	1230	1230	1228			
30	1159	1156	1152	1154	1151	1155	1159	1159	1177	1176	1177	1176	1177	1173	1176	1172			
35	1083	1079	1067	1071	1067	1073	1081	1086	1108	1103	1106	1104	1105	1101	1102	1100			
40	972	964	945	947	945	953	962	978	1014	1003	1002	995	1000	989	986	990			
45	798	804	800	785	764	782	810	823	869	854	857	834	829	820	834	831			
50	610	638	656	620	580	610	661	656	675	690	707	657	628	648	690	669			
55	466	486	506	472	443	466	511	498	504	528	555	502	476	495	540	517			
60	360	366	370	358	333	350	378	368	384	392	415	380	363	376	402	387			
65	265	270	261	259	239	254	268	270	288	288	296	279	266	275	288	286			
70	186	191	185	181	167	179	190	191	199	205	207	198	184	195	202	205			
75	132	134	132	126	121	125	136	135	141	145	147	138	133	137	144	144			
80	86.4	89.8	85.6	79.8	73.2	80.2	90.5	91.7	96.8	99.6	101	93.1	90.0	93.1	98.9	98.7			
85	36.3	37.5	27.5	21.7	15.2	22.5	34.3	42.5	51.0	51.6	52.1	37.6	33.6	34.6	46.3	49.3			
90	1.39	1.42	1.44	1.42	1.38	1.41	1.44	1.40	4.36	5.34	2.25	1.97	1.83	1.61	1.54	1.49			
95	1.89	1.91	1.92	1.83	1.76	1.79	1.84	1.84	1.70	1.71	1.68	1.62	1.57	1.62	1.72	1.75			
100	2.52	2.53	2.52	2.42	2.36	2.38	2.43	2.44	2.26	2.27	2.23	2.17	2.11	2.17	2.29	2.33			
105	3.25	3.25	3.24	3.13	3.08	3.07	3.13	3.13	2.94	2.94	2.87	2.82	2.77	2.83	2.96	3.02			
110	4.06	4.06	4.03	3.94	3.90	3.87	3.90	3.92	3.70	3.69	3.61	3.58	3.54	3.60	3.70	3.79			
115	4.94	4.93	4.90	4.82	4.78	4.74	4.74	4.77	4.55	4.52	4.43	4.41	4.39	4.44	4.54	4.64			
120	5.84	5.80	5.76	5.70	5.68	5.61	5.58	5.63	5.41	5.37	5.25	5.26	5.26	5.30	5.40	5.51			
125	6.67	6.65	6.58	6.53	6.54	6.43	6.42	6.48	6.27	6.22	6.07	6.09	6.13	6.15	6.23	6.37			
130	7.49	7.45	7.37	7.31	7.32	7.20	7.20	7.28	7.08	7.01	6.86	6.88	6.95	6.95	7.05	7.17			
135	8.21	8.17	8.12	8.03	8.05	7.91	7.93	8.00	7.82	7.75	7.60	7.59	7.69	7.68	7.79	7.91			
140	8.90	8.83	8.81	8.75	8.73	8.57	8.61	8.66	8.51	8.44	8.28	8.26	8.35	8.38	8.50	8.60			
145	9.47	9.47	9.43	9.40	9.36	9.21	9.23	9.29	9.14	9.05	8.92	8.92	9.03	9.06	9.15	9.23			
150	10.0	10.1	10.0	9.99	9.97	9.84	9.84	9.85	9.68	9.65	9.54	9.54	9.64	9.68	9.76	9.84			
155	10.6	10.7	10.6	10.5	10.5	10.5	10.5	10.5	10.3	10.2	10.2	10.2	10.2	10.2	10.3	10.4			
160	11.3	11.3	11.2	11.1	11.1	11.1	11.1	11.1	10.9	10.9	10.8	10.9	10.8	10.8	11.0	11.1			
165	11.9	12.0	11.8	11.7	11.8	11.9	11.9	11.8	11.6	11.6	11.6	11.6	11.5	11.5	11.6	11.8			
170	12.6	12.5	12.4	12.4	12.5	12.5	12.5	12.4	12.4	12.3	12.2	12.3	12.2	12.2	12.3	12.4			
175	13.0	12.8	12.8	12.9	12.9	12.9	12.9	12.8	12.9	12.7	12.7	12.8	12.8	12.8	12.7	12.8			
180	13.1	12.9	13.0	13.0	13.1	13.0	13.0	13.0	13.1	12.9	13.0	13.0	13.1	13.0	13.0	13.0			

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