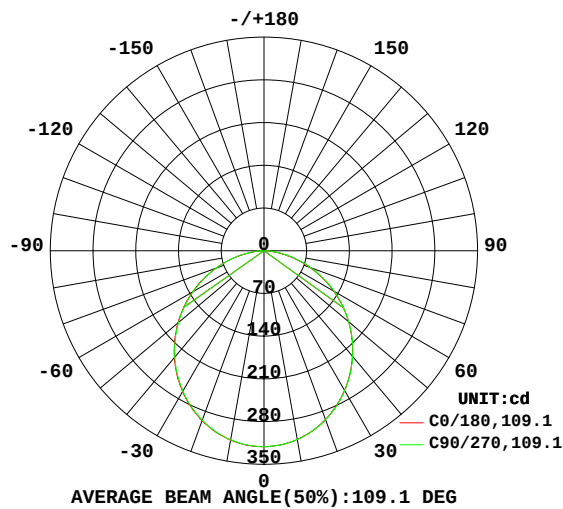


LUMINAIRE PHOTOMETRIC TEST REPORT

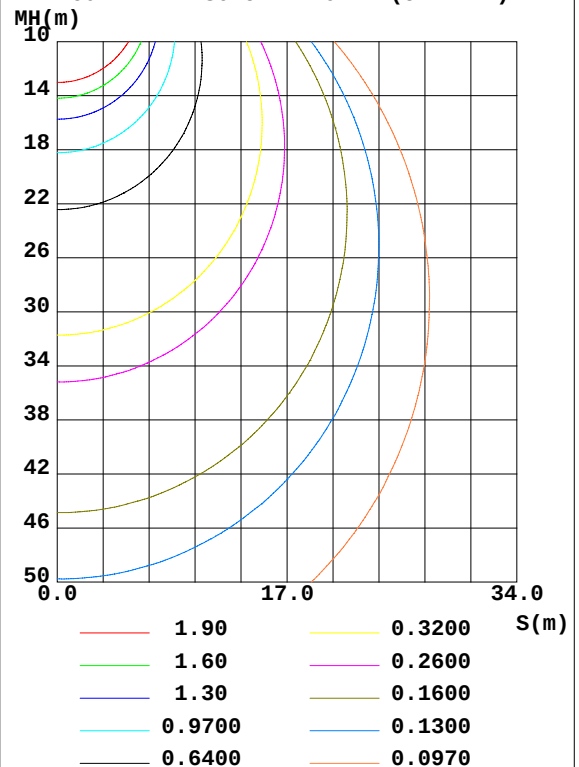
Test:U:120.0V I:0.1188A P:14.19W PF:0.9945 Lamp Flux:883.364x1 lm		
NAME: led Downlight retrofits	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: Libo	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 62.27 lm/W
MODEL	RSZ160622516-10	Imax(cd)	321.1	S/MH(C0/180)	1.23	
NOMINAL POWER(W)	14	LOR(%)	100.0	S/MH(C90/270)	1.23	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	883.36	η UP, DN(C0-180)	0.1, 50.1	
NOMINAL FLUX(lm)	883.364	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 49.8	
LAMPS INSIDE	1	η up(%)	0.1	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	120	η down(%)	99.9	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: 10.0deg/s
Temperature:25.1DEG
Operators:Hexy
Test Date:2016-06-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:47%
Test Distance:2.437m [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	315.0	314.9	314.6	313.9	313.9	313.7	314.0	314.8	0- 10	30.32	30.32	3.43,3.43
20	296.3	296.4	295.5	294.5	294.3	293.9	294.6	296.2	10- 20	86.38	116.7	13.2,13.2
30	266.5	266.9	265.8	264.0	264.1	263.6	264.7	266.5	20- 30	129.7	246.4	27.9,27.9
40	228.5	228.6	227.3	225.5	225.5	225.0	225.9	228.2	30- 40	154.4	400.8	45.4,45.4
50	183.9	184.0	182.7	180.8	181.0	180.2	181.4	183.7	40- 50	158.2	559.0	63.3,63.3
60	135.1	135.3	134.1	132.0	131.9	131.7	132.8	135.1	50- 60	141.5	700.5	79.3,79.3
70	83.62	84.38	83.22	80.95	80.26	80.40	81.81	83.92	60- 70	106.9	807.3	91.4,91.4
80	33.54	34.94	34.67	32.05	31.10	31.82	33.81	34.95	70- 80	60.58	867.9	98.3,98.3
90	0.0757	0.1105	0.0737	0.0460	0.0249	0.0237	0.0232	0.0368	80- 90	14.65	882.6	99.9,99.9
100	0.0720	0.0852	0.0752	0.0815	0.0403	0.0443	0.0411	0.0460	90-100	0.0516	882.6	99.9,99.9
110	0.0857	0.0930	0.0909	0.0933	0.0637	0.0671	0.0654	0.0645	100-110	0.0742	882.7	99.9,99.9
120	0.0978	0.0982	0.0988	0.1019	0.0949	0.0941	0.0943	0.0907	110-120	0.0856	882.8	99.9,99.9
130	0.1313	0.1300	0.1357	0.1368	0.1303	0.1289	0.1244	0.1207	120-130	0.0998	882.9	99.9,99.9
140	0.1894	0.2011	0.2035	0.2066	0.1667	0.1673	0.1638	0.1602	130-140	0.1189	883.0	100,100
150	0.2805	0.3047	0.3106	0.3100	0.1884	0.1926	0.1971	0.1874	140-150	0.1346	883.1	100,100
160	0.3577	0.3586	0.3619	0.3741	0.2224	0.2208	0.2294	0.2132	150-160	0.1260	883.3	100,100
170	0.3386	0.3306	0.3343	0.3446	0.2423	0.2323	0.2353	0.2338	160-170	0.0831	883.3	100,100
180	0.2983	0.2832	0.2761	0.3025	0.3017	0.2915	0.2785	0.2896	170-180	0.0275	883.4	100,100
DEG	LUMINOUS INTENSITY:cd Less than 25% Percent = 9.2 %									UNIT: lm		

Conical surface Flux(90deg): 480.76 lm

%lum = 54.4%

%lamp = 54.4%

Conical surface Flux(120deg): 700.47 lm

%lum = 79.3%

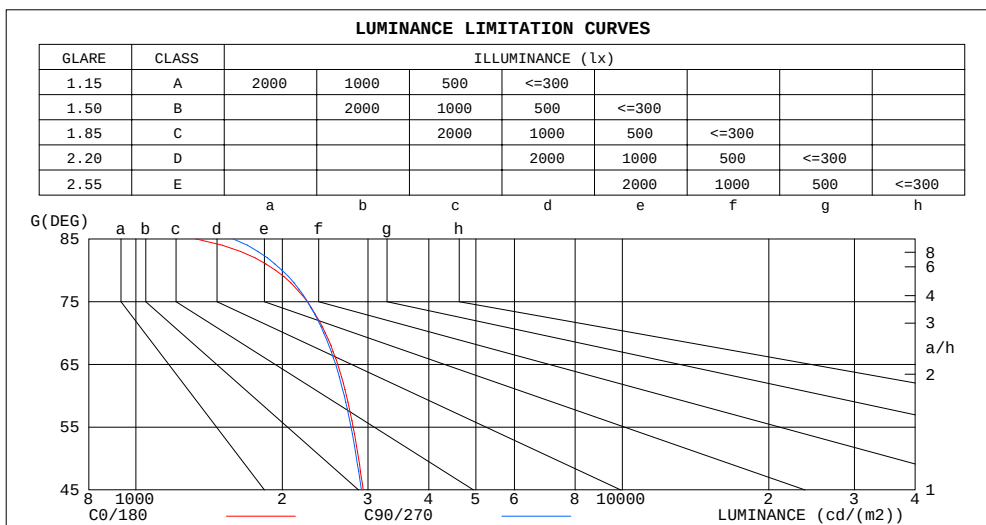
%lamp = 79.3%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: 10.0deg/s
Temperature:25.1DEG
Operators:Hexy
Test Date:2016-06-23

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:47%
Test Distance:2.437m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.0V I:0.1188A P:14.19W PF:0.9945 Lamp Flux:883.364x1 lm		
NAME: Inseparable SSL Luminaire	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: Libo	SUR.:N/A	Shielding Angle:N/A



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1327	1583
80	1936	1996
75	2250	2254
70	2451	2432
65	2600	2574
60	2709	2681
55	2796	2770
50	2869	2841
45	2933	2908

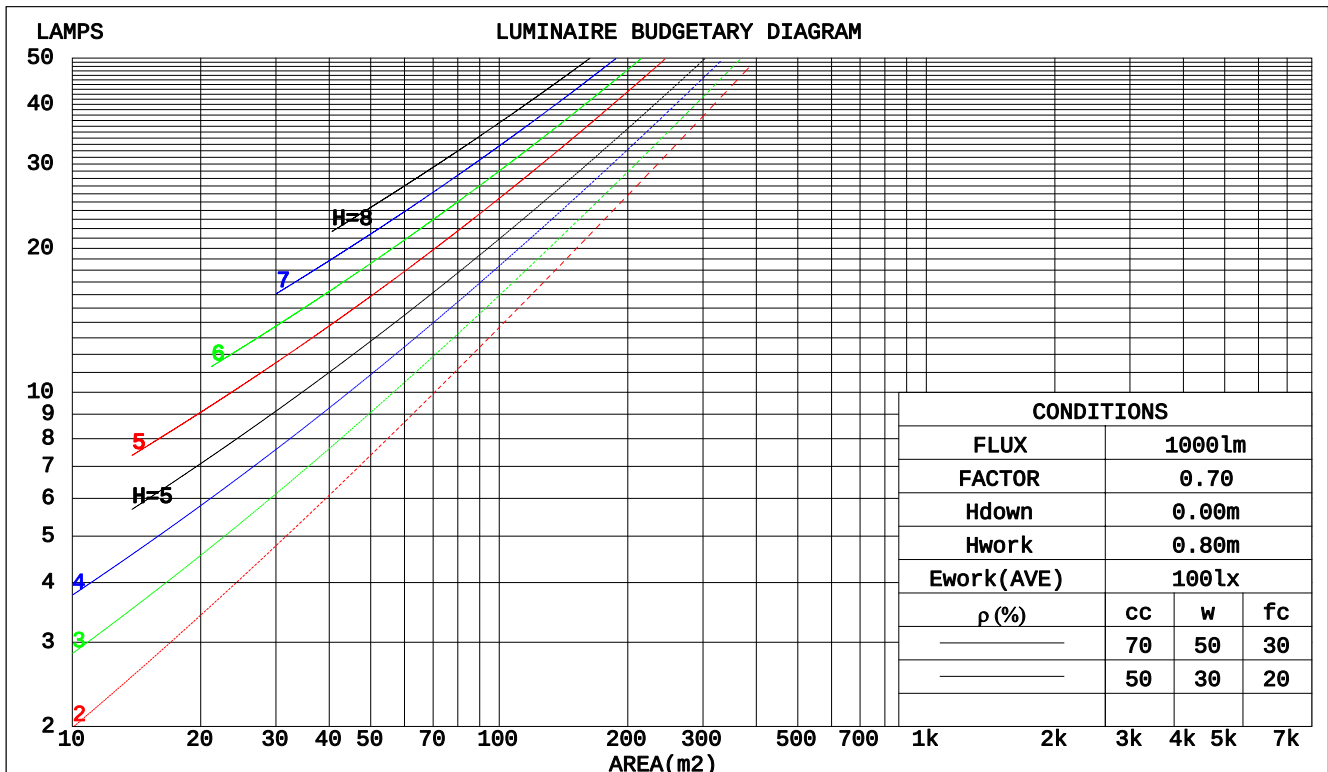
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: 10.0deg/s
Temperature:25.1DEG
Operators:Hexy
Test Date:2016-06-23

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:47%
Test Distance:2.437m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.1188A P:14.19W PF:0.9945 Lamp Flux:883.364x1 lm		
NAME: Inseparable SSL Luminaire	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: Libo	SUR.:N/A	Shielding Angle:N/A

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	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.04	.00	.96	1.02	.98	.94	.98	.94	.91	.94	.91	.89	.90	.88	.86	.84
2.0	.91	.84	.78	.89	.83	.77	.85	.80	.75	.82	.78	.74	.79	.75	.72	.70
3.0	.80	.72	.65	.78	.71	.64	.75	.69	.63	.72	.67	.62	.70	.65	.61	.59
4.0	.71	.62	.55	.69	.61	.55	.67	.60	.54	.64	.58	.53	.62	.57	.52	.50
5.0	.63	.54	.48	.62	.54	.47	.60	.52	.47	.58	.51	.46	.56	.50	.46	.44
6.0	.57	.48	.41	.56	.47	.41	.54	.47	.41	.52	.46	.41	.51	.45	.40	.38
7.0	.52	.43	.37	.51	.42	.37	.49	.42	.36	.48	.41	.36	.46	.40	.36	.34
8.0	.47	.39	.33	.46	.38	.33	.45	.38	.32	.44	.37	.32	.43	.37	.32	.30
9.0	.43	.35	.29	.43	.35	.29	.41	.34	.29	.40	.34	.29	.39	.33	.29	.27
10.0	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.26	.37	.31	.26	.25



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: 10.0deg/s
 Temperature:25.1DEG
 Operators:Hexy
 Test Date:2016-06-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity:47%
 Test Distance:2.437m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:120.0V I:0.1188A P:14.19W PF:0.9945 Lamp Flux:883.364x1 lm									
NAME: Inseparable SSL Luminaire					TYPE:N/A			WEIGHT:N/A	
SPEC.:N/A					DIM.: N/A			SERIAL No.:N/A	
MFR.: Libo					SUR.:N/A			Shielding Angle:N/A	

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	.306	.174	.055	.298	.170	.054	.285	.164	.052	.273	.157	.051	.262	.152	.049	
2.0	.289	.158	.049	.282	.156	.048	.271	.151	.047	.260	.146	.046	.250	.141	.045	
3.0	.268	.142	.043	.262	.140	.042	.252	.136	.041	.242	.133	.041	.233	.129	.040	
4.0	.247	.129	.038	.242	.127	.037	.233	.124	.037	.225	.121	.036	.217	.118	.036	
5.0	.229	.117	.034	.224	.115	.034	.216	.113	.033	.209	.110	.033	.202	.108	.032	
6.0	.212	.106	.030	.208	.105	.030	.201	.103	.030	.194	.101	.030	.188	.099	.029	
7.0	.198	.098	.028	.194	.097	.028	.188	.095	.027	.182	.093	.027	.176	.091	.027	
8.0	.185	.090	.025	.182	.089	.025	.176	.088	.025	.170	.086	.025	.165	.085	.025	
9.0	.173	.084	.023	.170	.083	.023	.165	.082	.023	.160	.080	.023	.156	.079	.023	
10.0	.163	.078	.022	.160	.077	.022	.156	.076	.021	.151	.075	.021	.147	.074	.021	

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	.191	.191	.191	.163	.163	.163	.112	.112	.112	.064	.064	.064	.020	.020	.020	
1.0	.181	.157	.135	.155	.135	.117	.106	.093	.081	.061	.054	.047	.019	.017	.015	
2.0	.173	.133	.099	.148	.114	.086	.101	.079	.060	.058	.046	.035	.019	.015	.011	
3.0	.165	.115	.075	.141	.099	.065	.097	.069	.046	.056	.040	.027	.018	.013	.009	
4.0	.157	.102	.059	.135	.088	.052	.093	.061	.036	.054	.036	.021	.017	.012	.007	
5.0	.150	.091	.048	.129	.079	.042	.089	.055	.030	.051	.032	.018	.017	.011	.006	
6.0	.143	.083	.040	.122	.072	.035	.085	.050	.025	.049	.030	.015	.016	.010	.005	
7.0	.136	.076	.034	.117	.066	.030	.081	.046	.021	.047	.027	.013	.015	.009	.004	
8.0	.129	.070	.030	.111	.061	.026	.077	.043	.018	.045	.025	.011	.014	.008	.004	
9.0	.123	.065	.026	.106	.057	.023	.074	.040	.016	.043	.023	.010	.014	.008	.003	
10.0	.118	.061	.023	.101	.053	.020	.070	.037	.014	.041	.022	.009	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: 10.0deg/s
 Temperature:25.1DEG
 Operators:Hexy
 Test Date:2016-06-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity:47%
 Test Distance:2.437m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.0V I:0.1188A P:14.19W PF:0.9945 Lamp Flux:883.364x1 lm											
NAME: Inseparable SSL Luminaire					TYPE:N/A			WEIGHT:N/A			
SPEC.:N/A					DIM.: N/A			SERIAL No.:N/A			
MFR.: Libo					SUR.:N/A			Shielding Angle:N/A			
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		16.5	18.0	16.7	18.2	18.4	16.4	17.9	16.7	18.1	18.3
	3H	18.0	19.4	18.3	19.6	19.8	17.9	19.3	18.2	19.6	19.8
	4H	18.6	19.9	18.9	20.1	20.4	18.5	19.8	18.8	20.1	20.4
	6H	19.0	20.2	19.3	20.5	20.8	18.9	20.2	19.3	20.5	20.7
	8H	19.1	20.3	19.4	20.5	20.8	19.1	20.3	19.4	20.6	20.8
	12H	19.1	20.3	19.4	20.6	20.9	19.1	20.3	19.5	20.6	20.9
4H	2H	17.1	18.4	17.4	18.7	18.9	17.0	18.4	17.4	18.6	18.9
	3H	18.8	19.9	19.1	20.2	20.5	18.7	19.9	19.1	20.2	20.5
	4H	19.5	20.5	19.8	20.9	21.2	19.4	20.5	19.8	20.8	21.2
	6H	20.0	20.9	20.4	21.3	21.7	20.0	20.9	20.4	21.3	21.7
	8H	20.1	21.0	20.6	21.4	21.8	20.2	21.0	20.6	21.4	21.8
	12H	20.2	21.0	20.6	21.4	21.8	20.3	21.1	20.7	21.5	21.9
8H	4H	19.7	20.6	20.1	21.0	21.4	19.7	20.6	20.1	21.0	21.3
	6H	20.4	21.1	20.8	21.5	22.0	20.4	21.1	20.8	21.5	22.0
	8H	20.6	21.3	21.1	21.7	22.2	20.7	21.3	21.1	21.7	22.2
	12H	20.8	21.3	21.2	21.8	22.2	20.8	21.4	21.3	21.8	22.3
12H	4H	19.7	20.6	20.2	20.9	21.3	19.7	20.5	20.2	20.9	21.3
	6H	20.5	21.1	20.9	21.5	22.0	20.5	21.1	20.9	21.5	22.0
	8H	20.7	21.3	21.2	21.7	22.2	20.8	21.3	21.2	21.8	22.2
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					

CIE Pub.117 Corrected 883.4 lm Total Lamp Luminous Flux.(8log(F/F0) = -0.4)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: 10.0deg/s
Temperature:25.1DEG
Operators:Hexy
Test Date:2016-06-23

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:47%
Test Distance:2.437m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.0V I:0.1188A P:14.19W PF:0.9945 Lamp Flux:883.364x1 lm		
NAME: Inseparable SSL Luminaire	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: Libo	SUR.:N/A	Shielding Angle:N/A

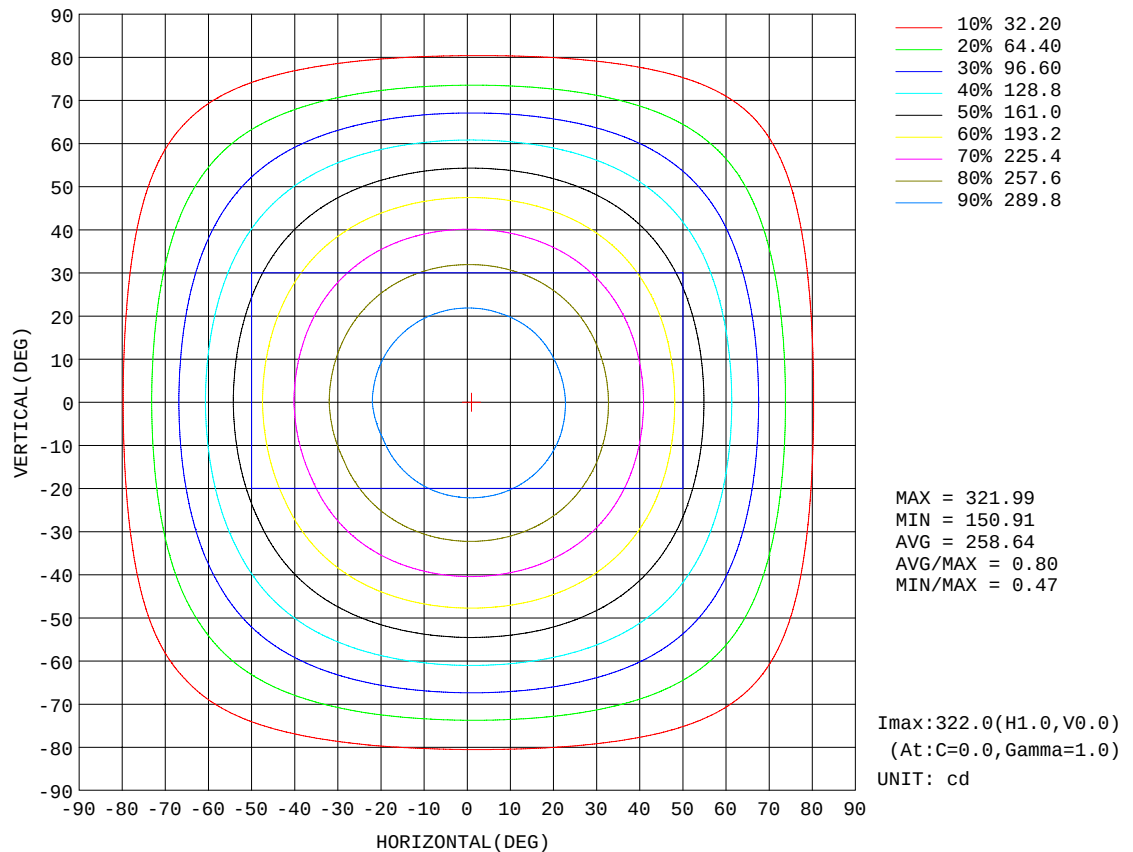
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	46	39	57	46	39	56	46	39	33
0.80	68	56	49	67	56	49	65	55	49	42
1.00	76	65	58	75	65	58	73	66	57	50
1.25	83	73	66	82	72	66	79	71	65	57
1.50	88	79	72	87	78	71	84	76	70	63
2.00	95	87	80	93	86	80	90	83	78	70
2.50	99	91	85	97	90	85	93	87	83	74
3.00	102	96	90	100	94	89	96	91	87	78
4.00	106	101	96	104	99	95	100	96	92	83
5.00	109	104	100	106	102	98	102	98	95	86
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: 10.0deg/s
 Temperature:25.1DEG
 Operators:Hexy
 Test Date:2016-06-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity:47%
 Test Distance:2.437m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.1188A P:14.19W PF:0.9945 Lamp Flux:883.364x1 lm		
NAME: Inseparable SSL Luminaire	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: Libo	SUR.:N/A	Shielding Angle:N/A

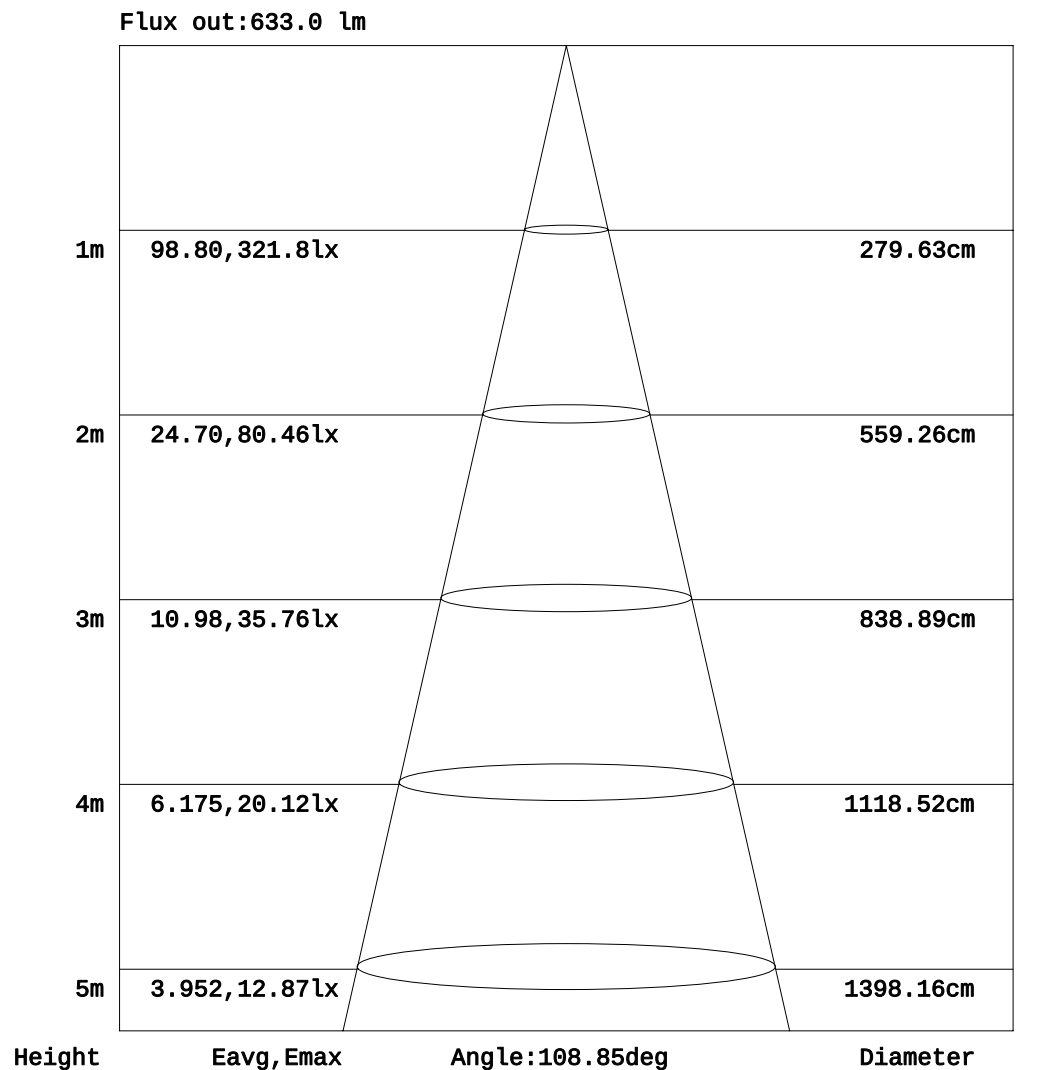


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: 10.0deg/s
Temperature:25.1DEG
Operators:Hexy
Test Date:2016-06-23

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:47%
Test Distance:2.437m [K=1.0000]
Remarks:

AAI Figure

Test:U:120.0V I:0.1188A P:14.19W PF:0.9945 Lamp Flux:883.364x1 lm		
NAME: Inseparable SSL Luminaire	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: Libo	SUR.:N/A	Shielding Angle:N/A



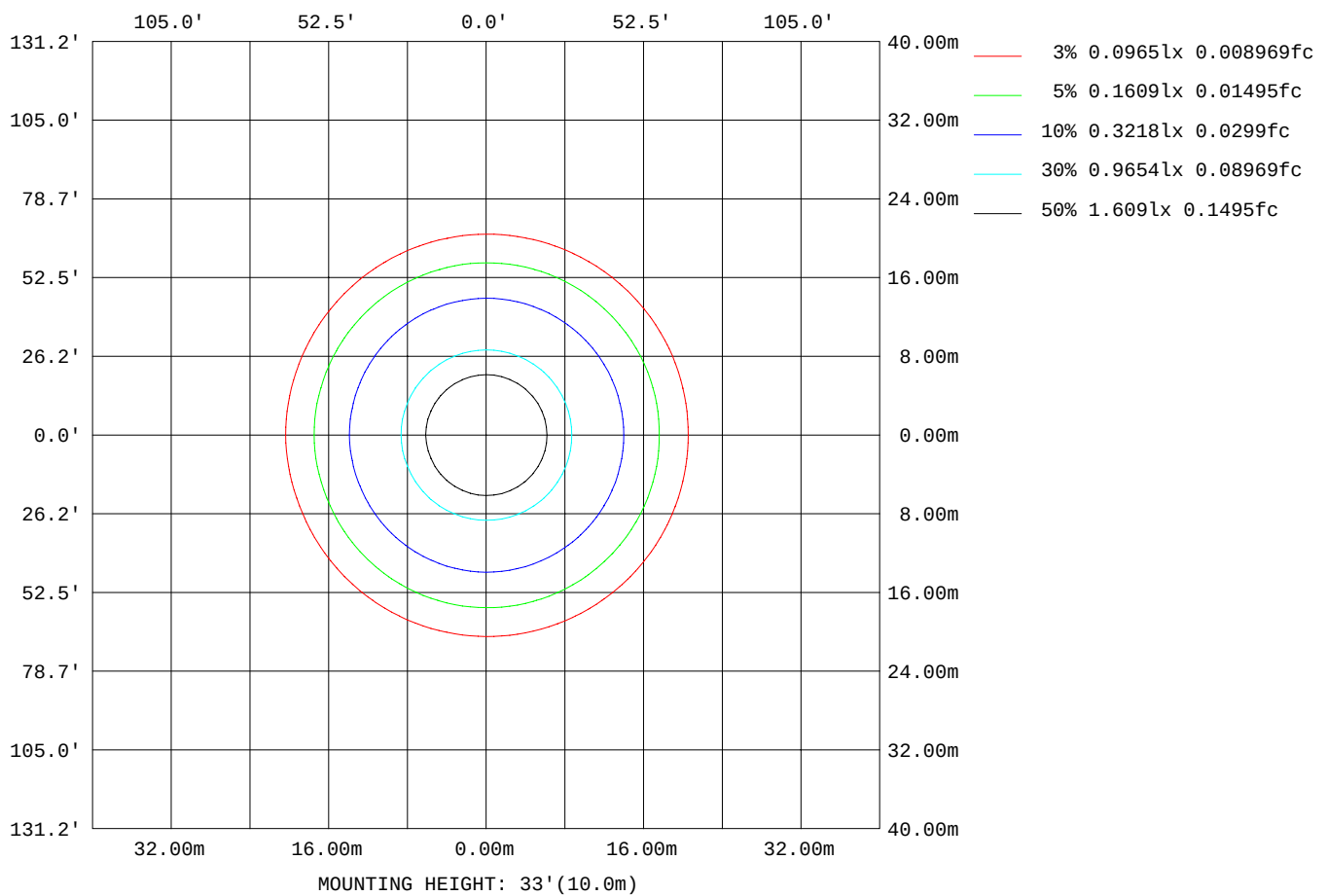
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: 10.0deg/s
Temperature:25.1DEG
Operators:Hexy
Test Date:2016-06-23

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:47%
Test Distance:2.437m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:120.0V I:0.1188A P:14.19W PF:0.9945 Lamp Flux:883.364x1 lm		
NAME: Inseparable SSL Luminaire	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: Libo	SUR.:N/A	Shielding Angle:N/A



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: 10.0deg/s
Temperature:25.1DEG
Operators:Hexy
Test Date:2016-06-23

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:47%
Test Distance:2.437m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.0V I:0.1188A P:14.19W PF:0.9945 Lamp Flux:883.364x1 lm		
NAME: Inseparable SSL Luminaire	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: Libo	SUR.:N/A	Shielding Angle:N/A

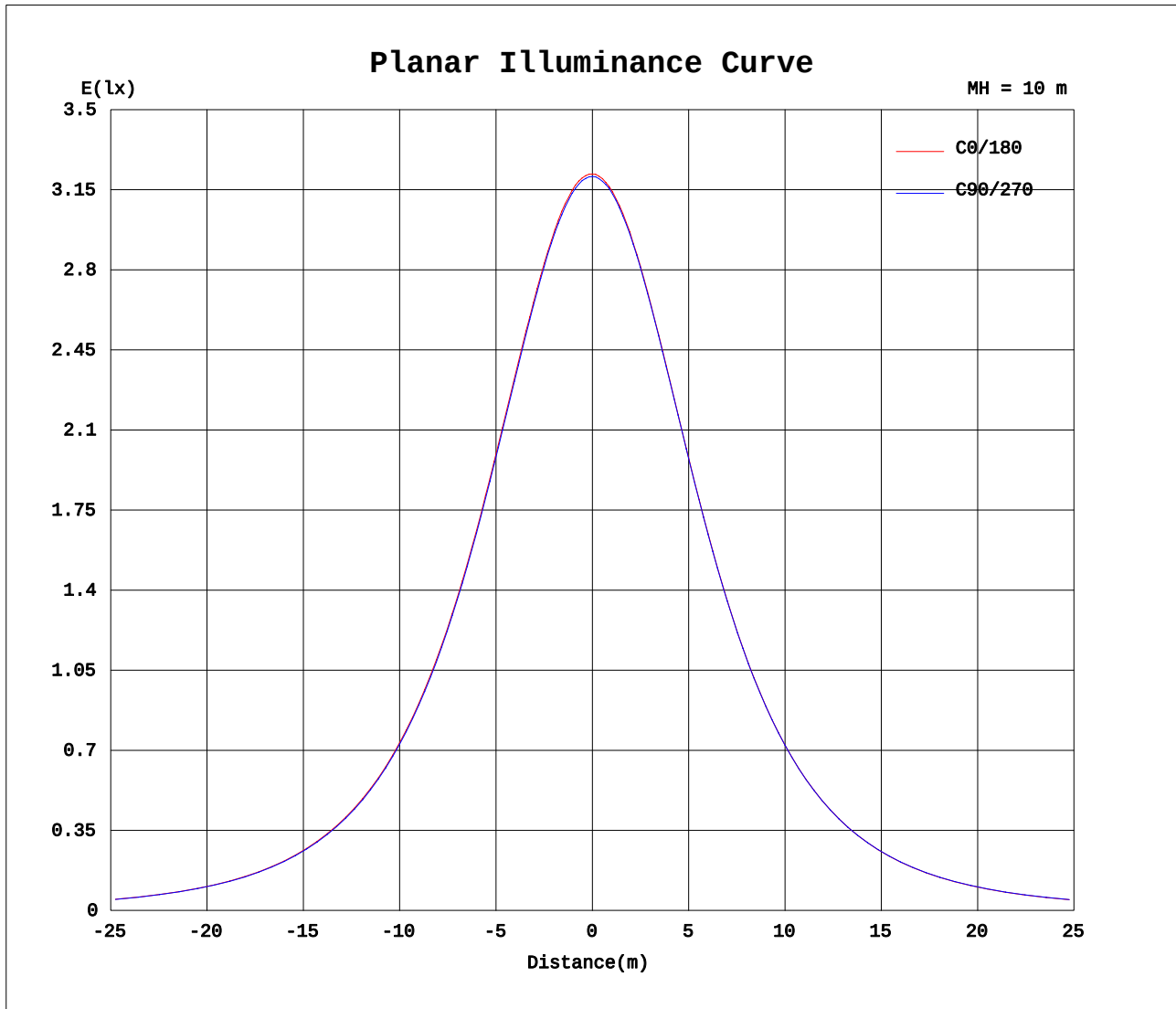
AvgL	cd/m2
L_0~180(65)av	2552
L_0~180(75)av	2185
L_0~180(85)av	1223
L_90~270(65)av	2557
L_90~270(75)av	2230
L_90~270(85)av	1559
L_45(65)av	2558
L_45(75)av	2214
L_45(85)av	1401

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: 10.0deg/s
Temperature:25.1DEG
Operators:Hexy
Test Date:2016-06-23

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:47%
Test Distance:2.437m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: 10.0deg/s
Temperature: 25.1DEG
Operators: Hexy
Test Date: 2016-06-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity: 47%
Test Distance: 2.437m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.1188A P:14.19W PF:0.9945 Lamp Flux:883.364x1 lm		
NAME: Inseparable SSL Luminaire	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: Libo	SUR.:N/A	Shielding Angle:N/A

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	321	321	321	321	321	321	321	321	321	321	321	321	321	321	321	321			
5	320	320	320	319	319	319	319	319	319	319	319	319	319	319	319	320			
10	315	315	315	315	315	314	314	313	314	314	314	314	314	314	315	315			
15	307	307	307	307	307	306	306	305	306	305	305	305	306	307	307	307			
20	296	297	296	296	295	295	295	294	294	294	294	294	295	295	296	297			
25	283	283	283	283	282	281	280	280	280	280	280	280	281	282	282	283			
30	267	267	267	266	266	265	264	263	264	264	264	264	265	266	266	267			
35	248	249	249	248	248	247	246	245	246	245	245	246	246	247	248	249			
40	228	229	229	228	227	227	225	224	225	225	225	225	226	227	228	229			
45	207	207	207	206	206	205	204	203	204	203	203	204	204	205	207	208			
50	184	184	184	184	183	182	181	180	181	181	180	181	181	183	184	185			
55	160	160	160	160	159	158	157	156	157	156	156	157	158	159	160	161			
60	135	135	135	135	134	133	132	131	132	132	132	132	133	134	135	136			
65	110	110	110	110	109	108	107	105	106	106	106	107	107	108	110	111			
70	83.6	84.2	84.4	84.0	83.2	82.4	81.0	79.5	80.3	79.8	80.4	81.1	81.8	82.8	83.9	84.7			
75	58.1	58.6	59.2	59.0	58.4	57.4	55.9	54.3	55.0	54.8	55.4	56.4	57.1	58.1	58.8	59.3			
80	33.5	34.2	34.9	35.2	34.7	33.7	32.0	30.3	31.1	31.0	31.8	33.0	33.8	34.6	34.9	35.1			
85	11.5	12.3	13.4	14.1	13.8	12.9	11.0	8.97	9.78	9.92	11.0	12.5	13.4	13.8	13.5	13.3			
90	0.08	0.07	0.11	0.09	0.07	0.05	0.05	0.05	0.02	0.02	0.02	0.02	0.02	0.02	0.04	0.15			
95	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03			
100	0.07	0.08	0.09	0.08	0.08	0.08	0.08	0.08	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.04			
105	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05			
110	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.06	0.06	0.07	0.07	0.07	0.07	0.06	0.06			
115	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07			
120	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.10	0.09	0.09	0.09	0.09			
125	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.10			
130	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.12	0.13	0.12	0.12			
135	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.16	0.15	0.15	0.15	0.15	0.15	0.15	0.14	0.14			
140	0.19	0.19	0.20	0.20	0.20	0.21	0.21	0.19	0.17	0.16	0.17	0.17	0.16	0.16	0.16	0.16			
145	0.23	0.24	0.26	0.26	0.27	0.27	0.26	0.24	0.18	0.17	0.18	0.19	0.18	0.18	0.18	0.17			
150	0.28	0.30	0.30	0.31	0.31	0.32	0.31	0.29	0.19	0.19	0.19	0.20	0.20	0.20	0.19	0.19			
155	0.32	0.34	0.34	0.34	0.34	0.35	0.35	0.34	0.21	0.20	0.21	0.22	0.22	0.22	0.21	0.22			
160	0.36	0.36	0.36	0.37	0.36	0.37	0.37	0.36	0.22	0.22	0.22	0.23	0.23	0.23	0.21	0.23			
165	0.36	0.36	0.35	0.35	0.36	0.36	0.37	0.36	0.23	0.23	0.23	0.23	0.24	0.23	0.22	0.24			
170	0.34	0.34	0.33	0.33	0.33	0.34	0.34	0.34	0.24	0.24	0.23	0.23	0.24	0.23	0.23	0.24			
175	0.33	0.33	0.33	0.31	0.31	0.32	0.33	0.34	0.27	0.27	0.26	0.25	0.25	0.24	0.26	0.27			
180	0.30	0.29	0.28	0.28	0.28	0.29	0.30	0.30	0.30	0.30	0.29	0.28	0.28	0.28	0.29	0.30			

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