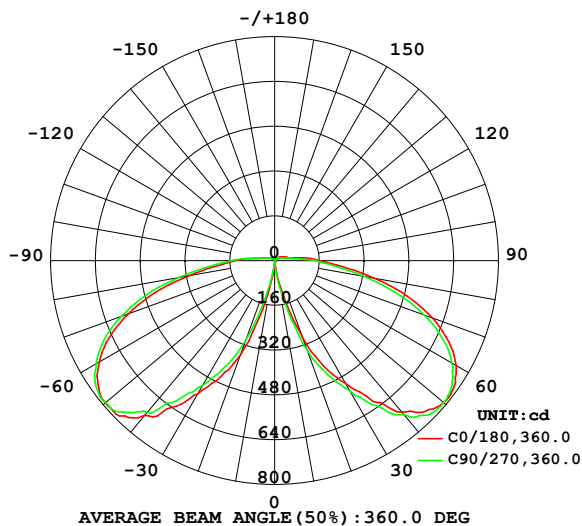


LUMINAIRE PHOTOMETRIC TEST REPORT

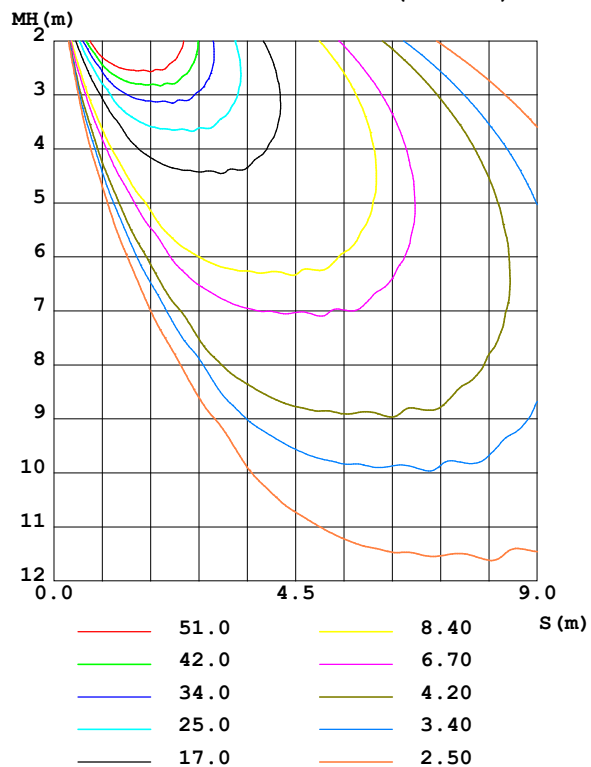
Test:U:120.25V I:0.1966A P:23.475W PF:0.9928 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3507.64x1 lm		
NAME: HL-BL-MW-MCCT-24W-CR	TYPE: 24W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 1
MFR.: HAVELLS	SUR.: 0.15	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 149.42 lm/W			
MODEL	HL-BL-MW-MCCT-24W-CR	I _{max} (cd)	797.6	S/MH(C0/180)	10.19
NOMINAL POWER(W)	24	LOR(%)	100.0	S/MH(C90/270)	9.94
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	3507.6	η UP,DN(C0-180)	2.8,47.3
NOMINAL FLUX(lm)	3507.64	CIE CLASS	DIRECT	η UP,DN(C180-360)	2.7,47.1
LAMPS INSIDE	1	η up (%)	5.5	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	120	η down (%)	94.5	CIBSE SHR MAX	1.15

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:2025-05-30

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [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	44.99	55.48	77.33	90.21	88.09	69.75	47.07	39.71	0- 10	2.238	2.238	0.06,0.06
20	295.1	298.8	337.6	357.7	359.1	332.3	297.0	277.8	10- 20	54.86	57.09	1.63,1.63
30	506.3	508.9	536.6	556.6	548.4	539.6	513.9	504.2	20- 30	201.1	258.2	7.36,7.36
40	706.7	703.0	718.5	743.8	721.9	732.3	708.5	689.4	30- 40	392.0	650.2	18.5,18.5
50	786.9	779.2	787.6	797.0	790.2	795.0	788.5	781.6	40- 50	591.1	1241	35.4,35.4
60	748.6	729.3	730.8	718.7	722.2	731.5	736.8	750.7	50- 60	691.8	1933	55.1,55.1
70	599.7	578.7	567.4	545.7	556.4	568.2	582.9	591.7	60- 70	655.4	2588	73.8,73.8
80	359.4	346.0	324.1	303.5	311.2	326.3	347.0	301.8	70- 80	481.9	3070	87.5,87.5
90	158.6	151.5	148.2	139.5	144.0	145.5	154.8	136.1	80- 90	243.2	3314	94.5,94.5
100	63.61	48.28	55.10	41.19	53.09	45.61	57.86	42.63	90-100	97.30	3411	97.2,97.2
110	38.56	25.87	30.27	21.48	32.45	24.13	31.61	24.58	100-110	40.52	3451	98.4,98.4
120	26.63	13.91	20.23	11.13	22.09	12.41	21.06	13.12	110-120	22.45	3474	99,99
130	17.54	11.33	12.37	10.98	13.19	11.43	12.88	10.57	120-130	13.04	3487	99.4,99.4
140	12.36	10.58	11.96	10.14	11.15	10.32	11.17	10.53	130-140	8.907	3496	99.7,99.7
150	11.55	8.026	10.12	7.446	9.820	6.291	9.495	6.679	140-150	6.435	3502	99.8,99.8
160	6.824	5.618	6.847	5.398	5.389	4.801	5.134	4.937	150-160	3.394	3506	99.9,99.9
170	5.860	5.670	5.521	5.501	5.248	5.015	5.157	5.138	160-170	1.486	3507	100,100
180	4.911	4.879	4.892	4.931	4.917	4.891	4.905	4.937	170-180	0.5082	3508	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 925.64 lm

%lum = 26.4%

%lamp = 26.4%

Conical surface Flux(130deg): 2274.2 lm

%lum = 64.8%

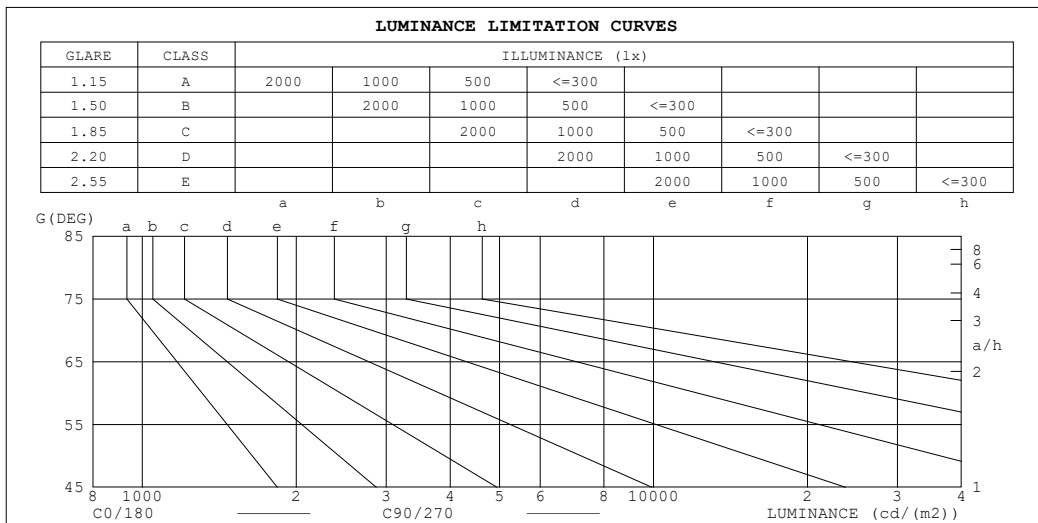
%lamp = 64.8%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:2025-05-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
 Humidity:65.0%
 Test Distance:9.630m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.25V I:0.1966A P:23.475W PF:0.9928 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3507.64x1 lm		
NAME: BR06B-24L-S2D3C3	TYPE: 24W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.15	Shielding Angle:



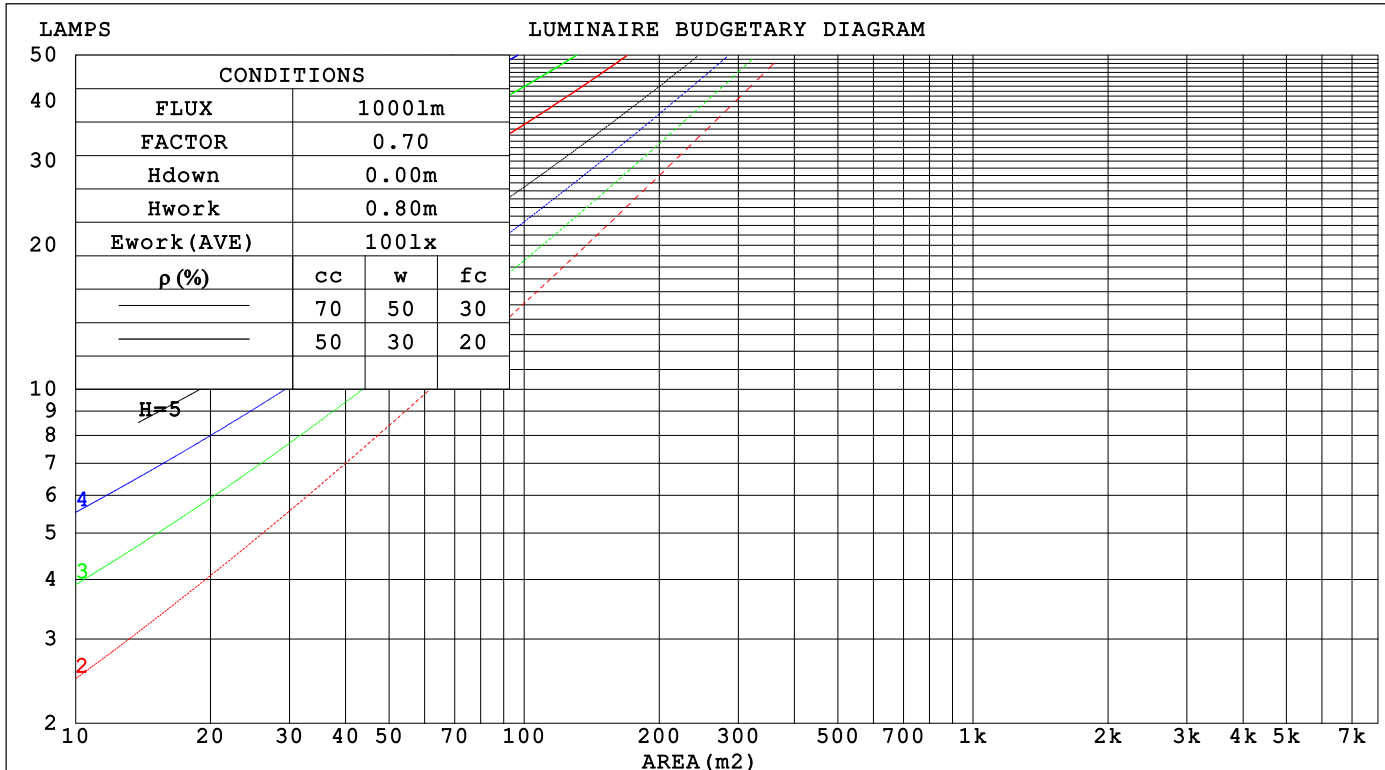
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2025-05-30

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 9.630m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.25V I:0.1966A P:23.475W PF:0.9928 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3507.64x1 lm		
NAME: BR06B-24L-S2D3C3	TYPE: 24W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.15	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 Coefficients of Utilization(CU)															
0.0	1.18	1.18	1.18	1.14	1.14	1.14	1.08	1.08	1.08	1.02	1.02	1.02	.97	.97	.97	.94
1.0	.96	.90	.85	.93	.88	.83	.88	.83	.79	.83	.79	.76	.78	.75	.73	.70
2.0	.80	.71	.63	.77	.69	.62	.73	.66	.60	.68	.63	.57	.64	.60	.55	.52
3.0	.67	.57	.49	.65	.56	.48	.61	.53	.46	.57	.50	.45	.54	.48	.43	.40
4.0	.57	.47	.38	.56	.46	.38	.52	.43	.37	.49	.41	.35	.46	.40	.34	.31
5.0	.50	.39	.31	.48	.38	.30	.45	.36	.29	.42	.35	.29	.40	.33	.28	.25
6.0	.43	.33	.25	.42	.32	.25	.40	.31	.24	.37	.29	.23	.35	.28	.23	.20
7.0	.38	.28	.21	.37	.28	.21	.35	.26	.20	.33	.25	.20	.31	.24	.19	.17
8.0	.34	.24	.18	.33	.24	.18	.31	.23	.17	.30	.22	.17	.28	.21	.16	.14
9.0	.31	.21	.15	.30	.21	.15	.28	.20	.15	.27	.19	.14	.25	.19	.14	.12
10.0	.28	.19	.13	.27	.19	.13	.26	.18	.13	.24	.17	.12	.23	.17	.12	.10



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-05-30

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:120.25V I:0.1966A P:23.475W PF:0.9928 Freq:60.01Hz			UTHDi:0.00% ITHDi:0.00% KDisp:0			Lamp Flux:3507.64x1 lm		
NAME: BR06B-24L-S2D3C3			TYPE: 24W			WEIGHT:		
SPEC.: 4000K			DIM.:			SERIAL No.: 1		
MFR.:			SUR.: 0.15			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	.429	.244	.077	.420	.240	.076	.403	.231	.074	.388	.224	.072	.373	.216	.070		
2.0	.380	.208	.064	.372	.205	.063	.357	.198	.062	.342	.192	.060	.329	.186	.059		
3.0	.339	.180	.054	.332	.178	.053	.318	.172	.052	.305	.167	.051	.293	.162	.050		
4.0	.304	.158	.047	.298	.156	.046	.285	.151	.045	.274	.147	.044	.263	.143	.044		
5.0	.276	.140	.041	.270	.138	.040	.258	.135	.040	.248	.131	.039	.238	.127	.038		
6.0	.251	.126	.036	.246	.124	.036	.236	.121	.035	.226	.118	.035	.217	.114	.034		
7.0	.230	.114	.032	.226	.112	.032	.216	.109	.032	.208	.107	.031	.200	.104	.031		
8.0	.212	.104	.029	.208	.102	.029	.200	.100	.029	.192	.097	.028	.185	.095	.028		
9.0	.197	.095	.027	.193	.094	.026	.186	.092	.026	.179	.089	.026	.172	.087	.025		
10.0	.184	.088	.024	.180	.087	.024	.173	.085	.024	.167	.083	.024	.161	.081	.023		

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	.233	.233	.233	.199	.199	.199	.136	.136	.136	.078	.078	.078	.025	.025	.025		
1.0	.231	.198	.167	.198	.170	.144	.135	.117	.100	.078	.068	.058	.025	.022	.019		
2.0	.227	.174	.130	.194	.150	.112	.133	.104	.078	.077	.060	.046	.025	.020	.015		
3.0	.221	.158	.108	.189	.136	.093	.130	.095	.065	.075	.055	.039	.024	.018	.013		
4.0	.214	.145	.093	.183	.126	.081	.126	.088	.057	.073	.051	.034	.023	.017	.011		
5.0	.206	.136	.084	.177	.117	.073	.122	.082	.051	.071	.048	.031	.023	.016	.010		
6.0	.198	.128	.077	.171	.111	.067	.118	.078	.048	.068	.046	.028	.022	.015	.009		
7.0	.191	.121	.072	.164	.105	.063	.113	.074	.045	.066	.043	.027	.021	.014	.009		
8.0	.184	.116	.069	.158	.100	.060	.109	.070	.043	.064	.042	.025	.021	.014	.008		
9.0	.177	.111	.066	.152	.096	.058	.106	.068	.041	.061	.040	.024	.020	.013	.008		
10.0	.170	.107	.064	.147	.093	.056	.102	.065	.040	.059	.038	.024	.019	.013	.008		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-05-30

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.25V I:0.1966A P:23.475W PF:0.9928 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3507.64x1 lm										
NAME: BR06B-24L-S2D3C3					TYPE: 24W			WEIGHT:		
SPEC.: 4000K					DIM.:			SERIAL No.: 1		
MFR.:					SUR.: 0.15			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	28.6	30.4	29.0	30.7	31.1	28.5	30.3	28.9	30.6	31.0
3H	31.1	32.7	31.5	33.1	33.5	30.9	32.5	31.3	32.9	33.3
4H	32.3	33.8	32.7	34.2	34.6	32.0	33.5	32.4	33.9	34.3
6H	33.3	34.7	33.7	35.1	35.5	32.9	34.4	33.3	34.7	35.2
8H	33.7	35.1	34.1	35.5	36.0	33.3	34.7	33.7	35.1	35.5
12H	34.1	35.5	34.6	35.9	36.4	33.6	35.0	34.1	35.4	35.9
4H 2H	29.5	31.1	29.9	31.4	31.8	29.4	31.0	29.8	31.4	31.8
3H	32.1	33.5	32.6	33.9	34.4	31.9	33.3	32.4	33.7	34.2
4H	33.4	34.7	33.9	35.1	35.6	33.2	34.4	33.6	34.9	35.3
6H	34.6	35.7	35.0	36.2	36.7	34.2	35.3	34.7	35.8	36.3
8H	35.1	36.1	35.6	36.6	37.1	34.7	35.7	35.2	36.2	36.7
12H	35.6	36.6	36.1	37.1	37.6	35.1	36.1	35.6	36.6	37.2
8H 4H	33.8	34.9	34.4	35.4	35.9	33.6	34.7	34.1	35.2	35.7
6H	35.2	36.1	35.8	36.6	37.2	34.9	35.8	35.4	36.3	36.9
8H	35.9	36.7	36.4	37.2	37.8	35.5	36.3	36.1	36.9	37.4
12H	36.6	37.3	37.2	37.8	38.4	36.2	36.9	36.7	37.4	38.0
12H 4H	33.9	34.9	34.4	35.4	35.9	33.7	34.7	34.2	35.2	35.7
6H	35.4	36.2	35.9	36.7	37.3	35.1	35.9	35.6	36.4	37.0
8H	36.1	36.8	36.7	37.4	38.0	35.8	36.5	36.3	37.0	37.6
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.4				

CIE Pub.117, 3508 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 4.4)
Area: 0.0177 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-05-30

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.25V I:0.1966A P:23.475W PF:0.9928 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3507.64x1 lm		
NAME: BR06B-24L-S2D3C3	TYPE: 24W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.15	Shielding Angle:

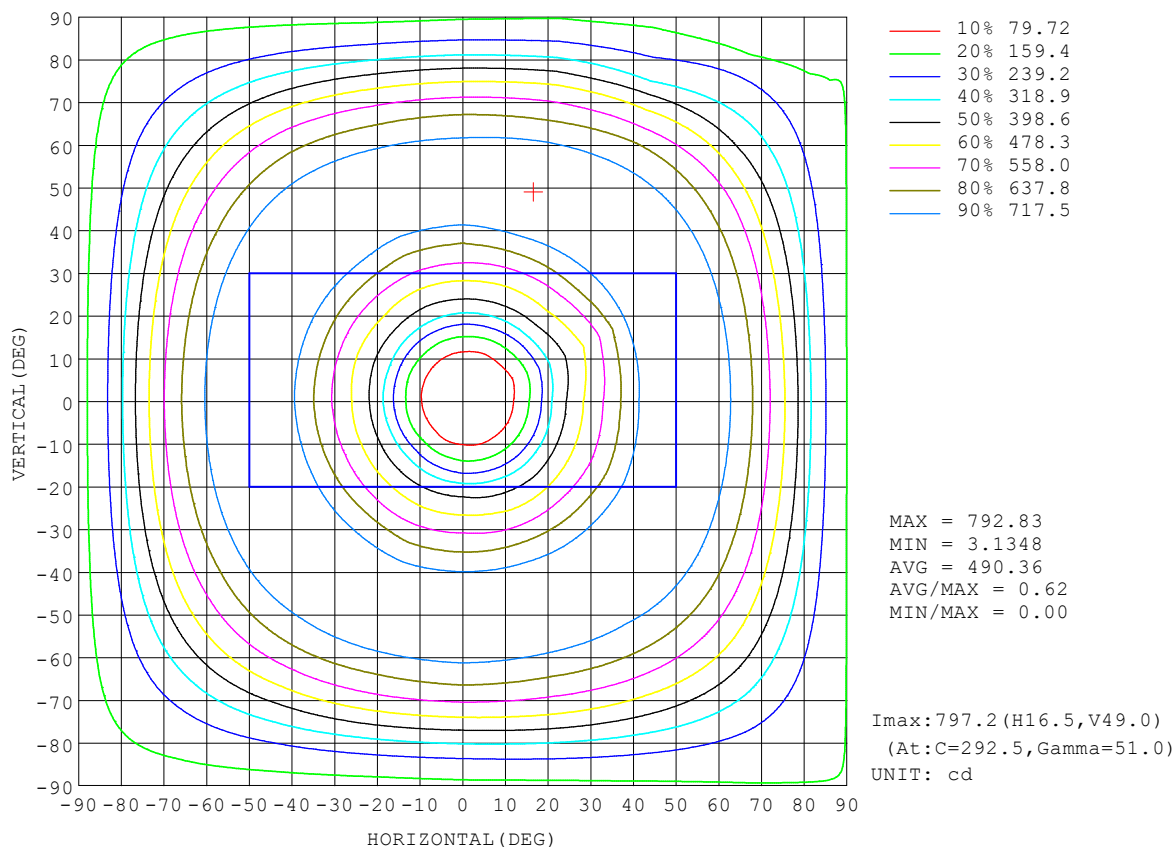
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	42	28	20	41	28	20	40	27	19	12
0.80	52	38	28	51	37	28	49	36	28	19
1.00	61	47	37	60	46	37	57	48	36	27
1.25	69	55	45	67	54	45	64	52	44	34
1.50	75	61	52	73	60	51	69	58	50	40
2.00	83	71	62	81	70	62	76	67	60	49
2.50	89	78	69	86	76	68	81	73	66	55
3.00	93	83	75	90	81	74	85	78	71	60
4.00	98	90	83	95	88	82	90	84	78	67
5.00	102	95	89	99	92	87	93	88	83	71
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: 2025-05-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 9.630m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:120.25V I:0.1966A P:23.475W PF:0.9928 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3507.64x1 lm		
NAME: BR06B-24L-S2D3C3	TYPE: 24W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.15	Shielding Angle:

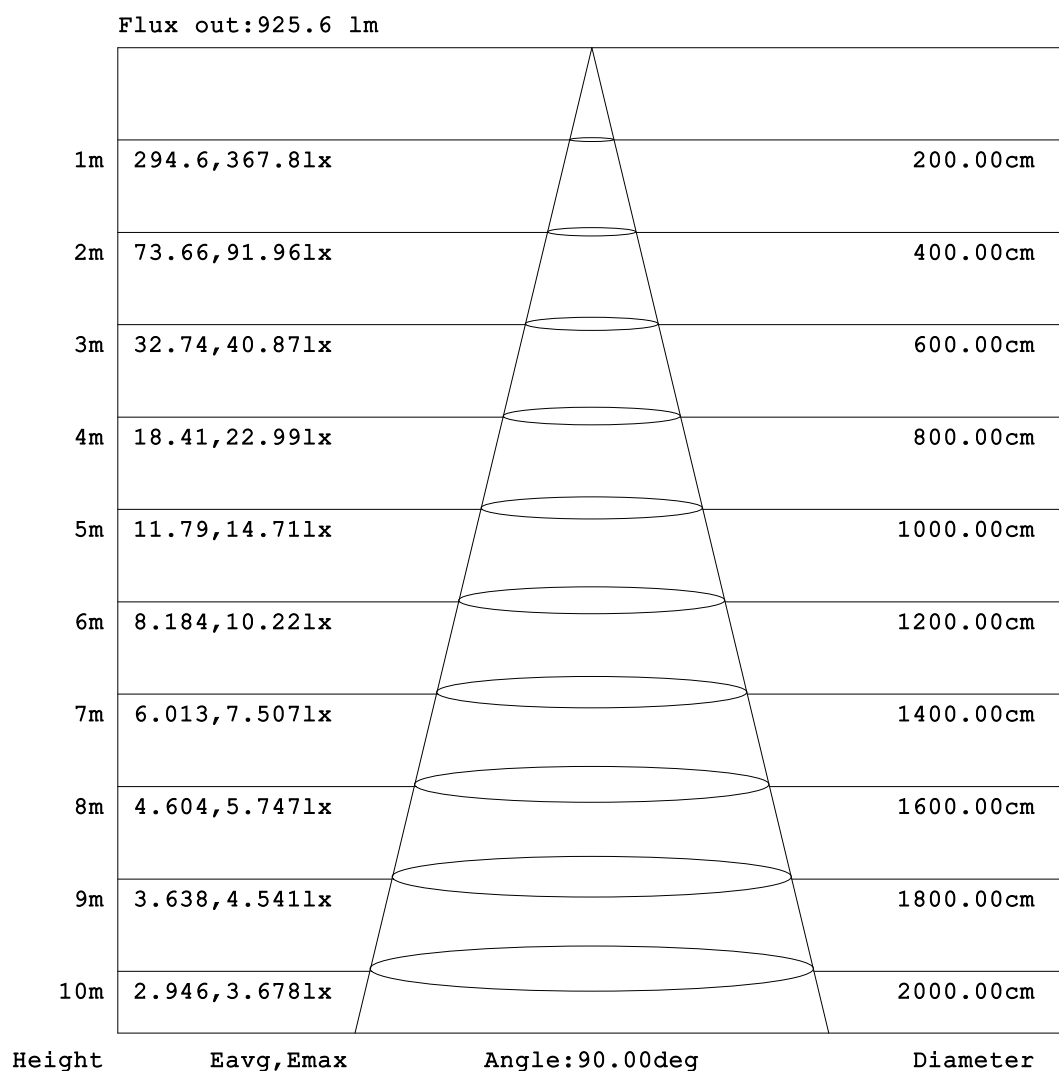


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-05-30

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

AAI Figure

Test:U:120.25V I:0.1966A P:23.475W PF:0.9928 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3507.64x1 lm		
NAME: BR06B-24L-S2D3C3	TYPE: 24W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.15	Shielding Angle:



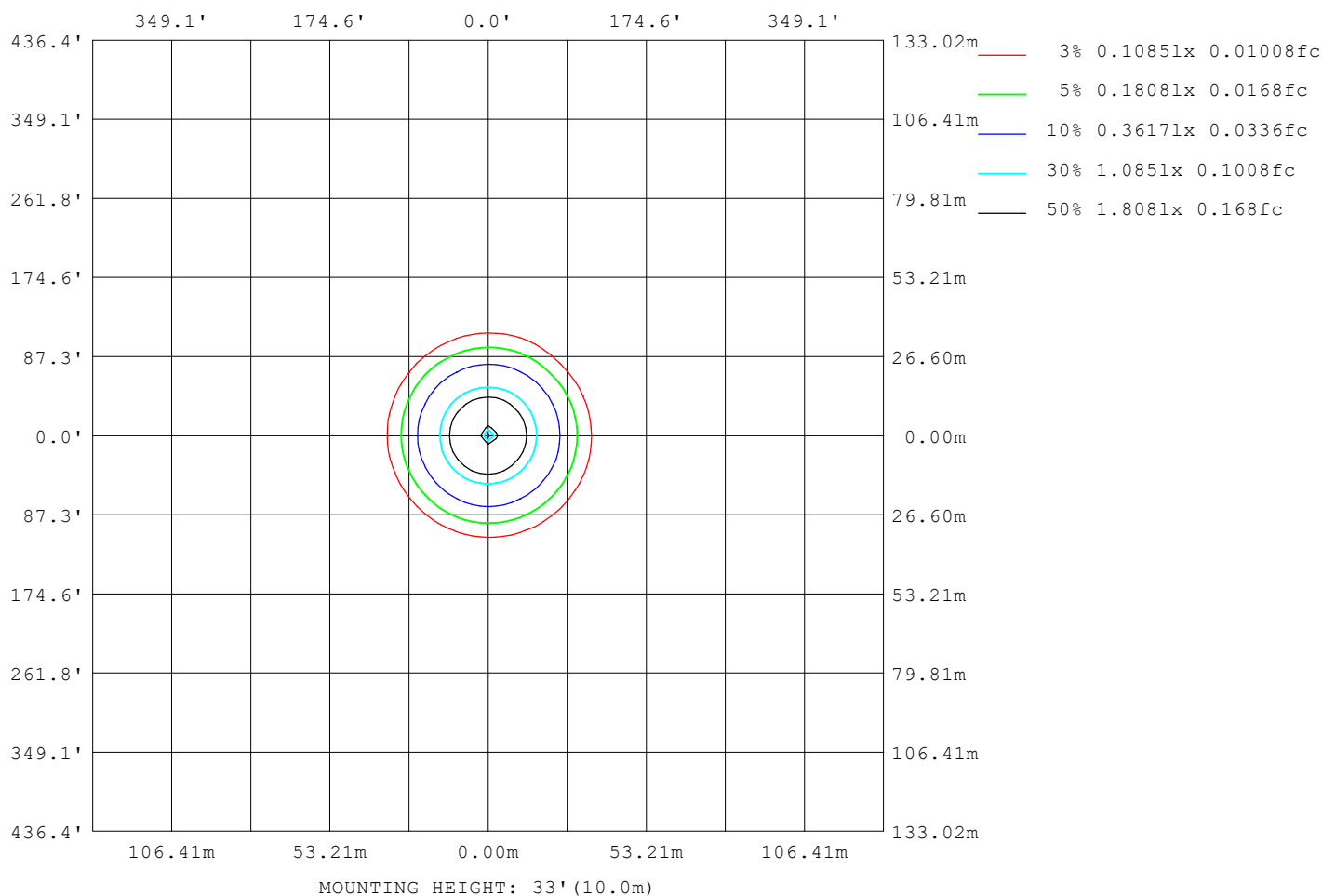
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: DAMIN
 Test Date: 2025-05-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.461
 Humidity: 65.0%
 Test Distance: 9.630m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.25V I:0.1966A P:23.475W PF:0.9928 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3507.64x1 lm		
NAME: BR06B-24L-S2D3C3	TYPE: 24W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.15	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-05-30

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.25V I:0.1966A P:23.475W PF:0.9928 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3507.64x1 lm		
NAME: BR06B-24L-S2D3C3	TYPE: 24W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.15	Shielding Angle:

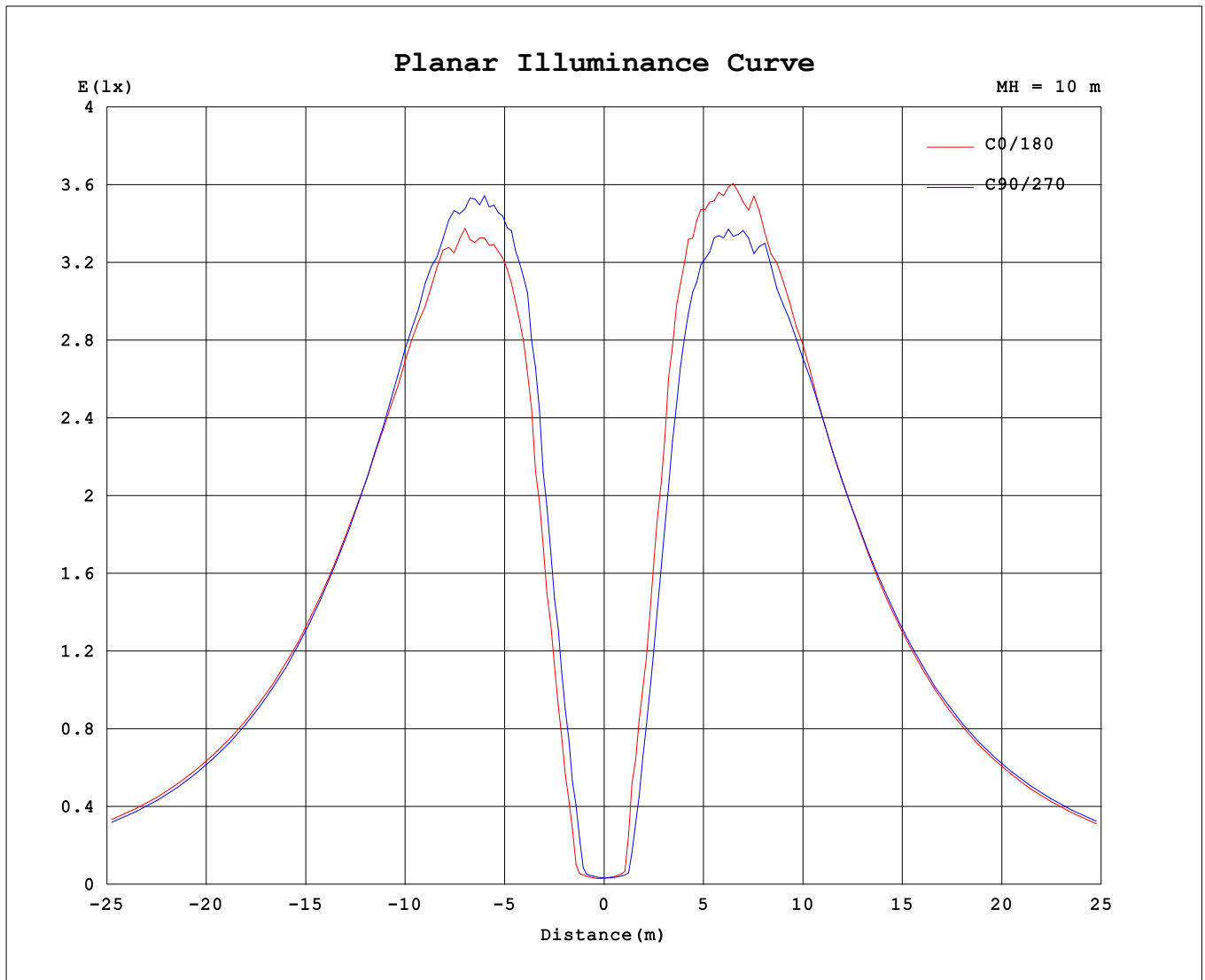
AvgL	cd/m2
L_0~180 (65) av	89560
L_0~180 (75) av	101875
L_0~180 (85) av	143983
L_90~270 (65) av	89363
L_90~270 (75) av	101282
L_90~270 (85) av	143473
L_45 (65) av	89013
L_45 (75) av	99421
L_45 (85) av	137017

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-05-30

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [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: 2025-05-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 9.630m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.25V I:0.1966A P:23.475W PF:0.9928 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3507.64x1 lm		
NAME: BR06B-24L-S2D3C3	TYPE: 24W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.15	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	3.23	3.23	3.26	3.37	3.41	3.38	3.38	3.36	3.23	3.23	3.26	3.37	3.41	3.38	3.38	3.36			
5	4.33	4.60	4.99	5.23	5.43	5.67	5.81	5.67	5.46	5.19	4.93	4.75	4.47	4.15	3.97	4.06			
10	45.0	46.0	55.5	64.5	77.3	80.9	90.2	90.5	88.1	79.1	69.7	61.5	47.1	44.7	39.7	43.4			
15	148	150	159	175	189	205	222	217	208	191	182	165	156	145	136	121			
20	295	299	299	323	338	353	358	363	359	352	332	313	297	288	278	256			
25	415	420	421	438	452	453	463	472	459	445	445	423	416	415	410	372			
30	506	508	509	527	537	544	557	558	548	539	540	511	514	509	504	467			
35	614	607	613	621	632	633	669	648	639	639	630	616	612	598	589	556			
40	707	704	703	717	718	720	744	736	722	727	732	702	709	705	689	677			
45	762	759	760	766	779	777	776	776	785	766	778	769	765	760	752	749			
50	787	781	779	787	788	793	797	790	790	787	795	789	788	795	782	783			
55	783	775	771	773	774	775	774	772	770	770	784	774	781	784	789	779			
60	749	745	729	728	731	726	719	720	722	726	732	735	737	751	751	752			
65	687	680	669	659	663	649	645	640	653	649	662	662	674	679	687	686			
70	600	594	579	569	567	557	546	546	556	556	568	570	583	589	592	596			
75	490	487	471	466	453	443	431	434	443	447	457	462	475	484	463	470			
80	359	359	346	335	324	313	304	304	311	317	326	333	347	349	302	329			
85	241	239	229	222	211	204	198	196	203	206	213	219	231	234	206	213			
90	159	157	152	149	148	143	139	139	144	145	145	148	155	156	136	101			
95	117	84.9	75.0	82.5	82.3	76.9	64.5	72.5	98.0	78.3	71.7	82.0	88.7	85.3	69.9	67.4			
100	63.6	52.4	48.3	59.8	55.1	57.1	41.2	45.3	53.1	48.7	45.6	59.6	57.9	61.5	42.6	40.4			
105	47.4	38.8	34.7	40.7	39.5	38.9	29.5	32.9	39.6	35.8	32.9	41.2	41.7	42.4	31.6	27.7			
110	38.6	29.7	25.9	30.6	30.3	29.8	21.5	24.0	32.4	26.3	24.1	31.1	31.6	31.9	24.6	19.9			
115	32.1	23.6	19.2	24.3	24.7	23.8	15.5	17.9	27.0	19.5	17.2	24.8	25.9	25.3	18.9	17.6			
120	26.6	19.0	13.9	19.3	20.2	18.9	11.1	13.6	22.1	14.7	12.4	19.7	21.1	19.9	13.1	17.8			
125	21.8	15.3	11.6	15.0	16.3	14.7	10.7	10.1	17.4	10.9	11.4	15.3	16.9	15.3	10.8	15.4			
130	17.5	12.0	11.3	12.0	12.4	11.5	11.0	9.84	13.2	10.4	11.4	11.8	12.9	11.8	10.6	12.9			
135	14.6	10.8	11.6	12.1	11.1	11.6	11.3	10.0	12.8	10.2	11.6	11.3	10.6	11.5	11.3	11.3			
140	12.4	10.6	10.6	12.5	12.0	12.3	10.1	9.85	11.2	9.79	10.3	11.7	11.2	11.9	10.5	10.6			
145	12.2	10.4	9.36	11.2	11.8	11.0	8.92	9.53	10.9	9.17	8.70	10.7	11.2	10.8	8.99	10.2			
150	11.6	9.76	8.03	9.39	10.1	9.16	7.45	8.83	9.82	8.27	6.29	8.88	9.50	8.98	6.68	9.32			
155	9.85	8.24	6.16	7.92	8.42	7.73	5.67	7.37	8.14	6.81	5.35	6.56	7.49	6.64	5.57	7.82			
160	6.82	5.88	5.62	6.14	6.85	5.92	5.40	5.32	5.39	4.77	4.80	5.18	5.13	5.20	4.94	5.37			
165	5.49	5.59	5.55	5.57	5.37	5.44	5.29	5.35	4.68	4.86	4.77	4.92	4.78	4.90	4.95	4.99			
170	5.86	5.88	5.67	5.67	5.52	5.61	5.50	5.55	5.25	5.18	5.02	5.11	5.16	5.31	5.14	5.38			
175	5.71	5.62	5.47	5.38	5.19	5.27	5.31	5.48	5.14	5.16	4.96	5.01	5.02	5.14	5.29	5.45			
180	4.91	4.85	4.88	4.92	4.89	4.93	4.93	4.93	4.92	4.85	4.89	4.92	4.90	4.94	4.94	4.93			

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