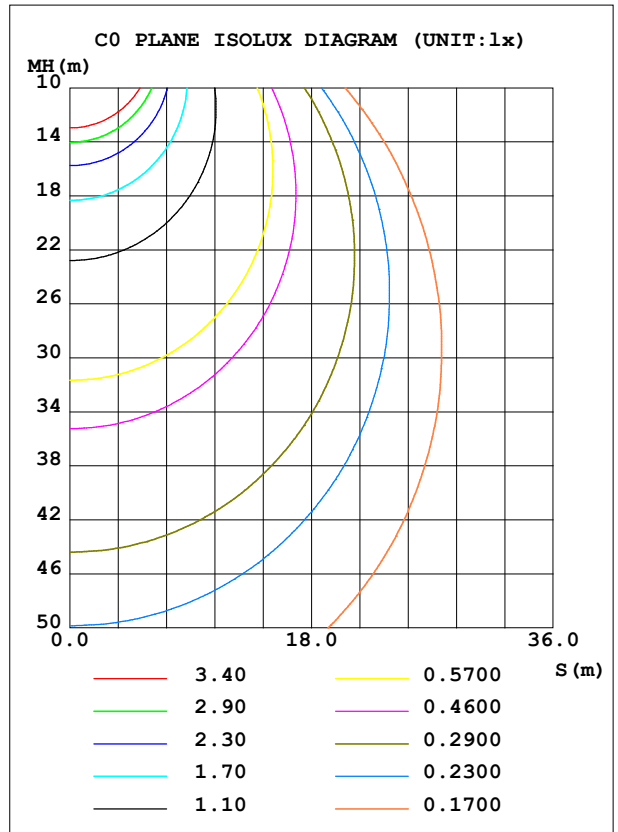
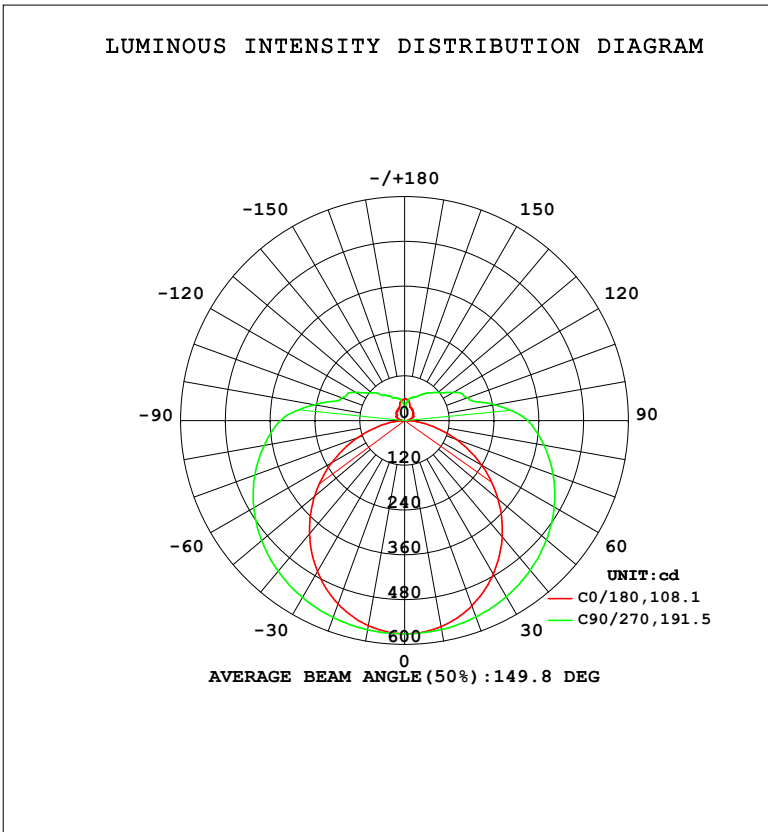


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.95V I:0.2698A P:29.538W PF:0.9127 Freq:59.98Hz Lamp Flux:2809.81x1 lm		
NAME: WS36-085-BN 30W 50K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 95.12 lm/W
MODEL	5000K	I _{max} (cd)	571.4	S/MH (C0/180)	1.22	
NOMINAL POWER (W)	30	LOR (%)	100.0	S/MH (C90/270)	1.45	
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	2809.8	η UP, DN (C0-180)	10.5, 39.8	
NOMINAL FLUX (lm)	2809.81	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	10.4, 39.4	
LAMPS INSIDE	1	η up (%)	20.8	CIBSE SHR NOM	1.50	
TEST VOLTAGE (V)	120	η down (%)	79.2	CIBSE SHR MAX	1.55	



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: DAMIN
 Test Date: 20 April 2026

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
 Humidity: 65.0%
 Test Distance: 7.380m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270				γ	Φ zone	Φ total	%lum,lamp
10	561.0	568.2	558.0	569.3				0- 10	54.19	54.19	1.93,1.93
20	527.7	559.9	522.4	561.2				10- 20	156.9	211.1	7.51,7.51
30	475.2	545.1	467.4	547.2				20- 30	243.3	454.4	16.2,16.2
40	407.0	523.6	396.9	526.9				30- 40	305.4	759.8	27,27
50	326.7	496.2	315.1	500.2				40- 50	338.0	1098	39.1,39.1
60	238.4	463.0	225.5	466.8				50- 60	339.9	1438	51.2,51.2
70	147.1	424.0	133.8	427.0				60- 70	313.1	1751	62.3,62.3
80	62.00	379.0	50.80	381.9				70- 80	264.5	2015	71.7,71.7
90	9.692	330.4	8.426	333.2				80- 90	209.2	2224	79.2,79.2
100	12.28	246.1	12.73	246.5				90-100	164.7	2389	85,85
110	20.18	179.5	21.35	179.1				100-110	116.9	2506	89.2,89.2
120	25.73	151.5	25.63	151.8				110-120	95.44	2602	92.6,92.6
130	30.44	117.5	28.97	116.8				120-130	71.65	2673	95.1,95.1
140	34.64	96.73	32.74	88.16				130-140	53.17	2726	97,97
150	37.46	77.95	35.94	75.59				140-150	37.78	2764	98.4,98.4
160	42.02	66.67	40.26	65.07				150-160	25.06	2789	99.3,99.3
170	54.78	52.83	53.32	56.89				160-170	15.67	2805	99.8,99.8
180	58.38	34.68	58.36	34.68				170-180	4.940	2810	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm		

Conical surface Flux(90deg): 926.6 lm

%lum = 33.0%

%lamp = 33.0%

Conical surface Flux(120deg): 1437.7 lm

%lum = 51.2%

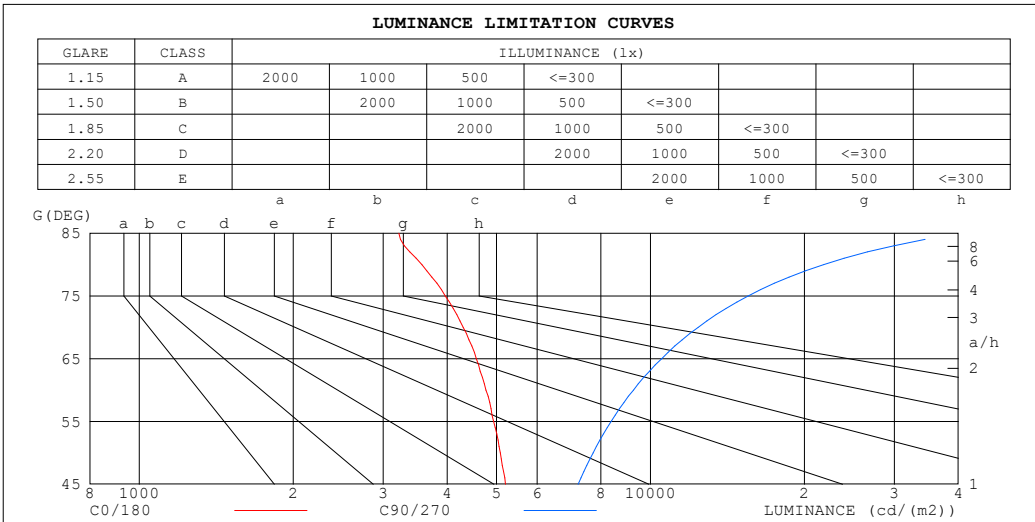
%lamp = 51.2%

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:20 April 2026

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
 Humidity:65.0%
 Test Distance:7.380m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:119.95V I:0.2698A P:29.538W PF:0.9127 Freq:59.98Hz Lamp Flux:2809.81x1 lm		
NAME: WS36-085-BN 30W 50K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	3219	40755
80	3571	21825
75	3970	15526
70	4300	12396
65	4565	10509
60	4768	9260
55	4933	8375
50	5083	7720
45	5204	7220

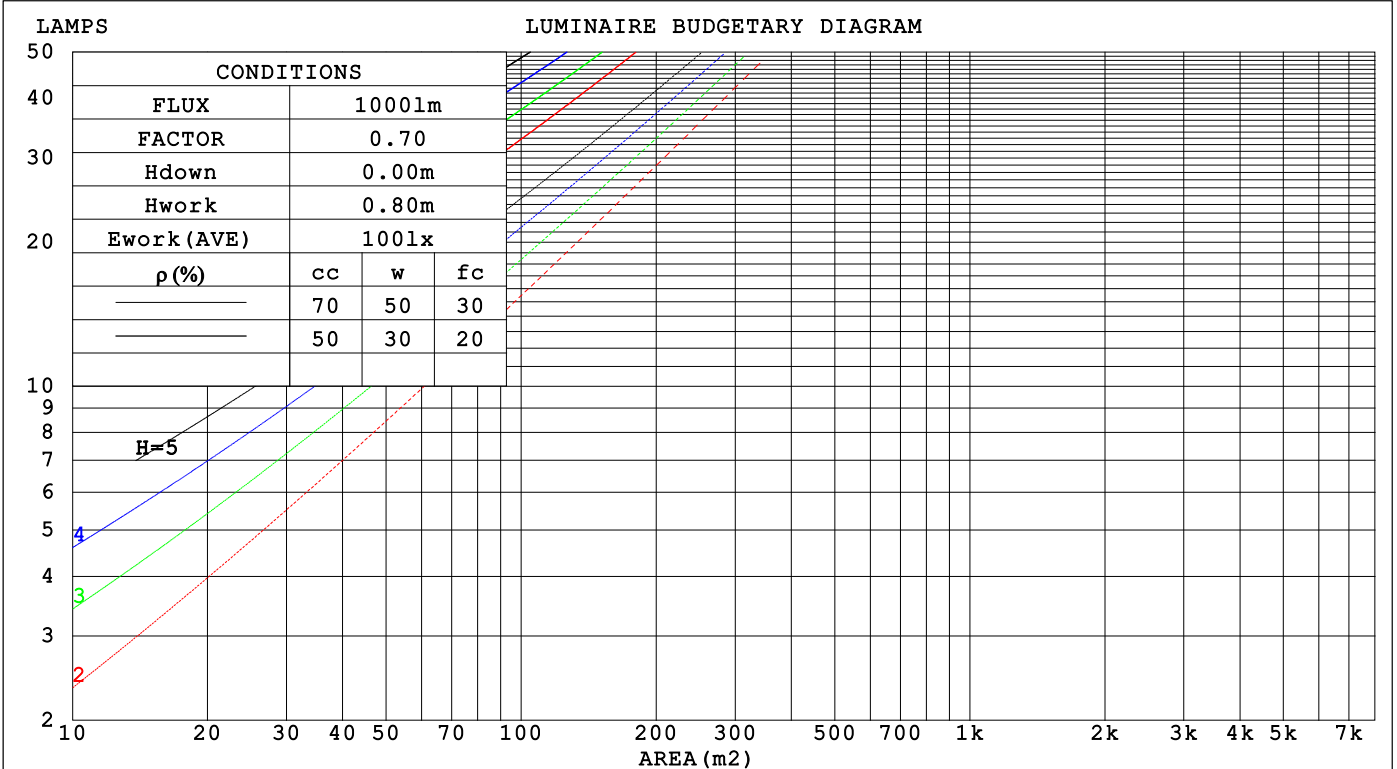
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: DAMIN
 Test Date: 20 April 2026

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
 Humidity: 65.0%
 Test Distance: 7.380m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.95V I:0.2698A P:29.538W PF:0.9127 Freq:59.98Hz Lamp Flux:2809.81x1 lm		
NAME: WS36-085-BN 30W 50K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	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						Coefficients of Utilization(CU)									
0.0	1.14	1.14	1.14	1.09	1.09	1.09	.00	.00	.00	.91	.91	.91	.83	.83	.83	.79
1.0	.95	.90	.85	.91	.86	.81	.82	.79	.75	.75	.72	.69	.68	.66	.63	.60
2.0	.81	.73	.67	.77	.70	.64	.70	.65	.60	.64	.59	.55	.58	.54	.51	.47
3.0	.70	.61	.54	.67	.59	.52	.61	.54	.49	.55	.50	.45	.50	.46	.42	.39
4.0	.62	.52	.45	.59	.50	.44	.54	.46	.41	.49	.43	.38	.44	.39	.35	.32
5.0	.55	.45	.38	.52	.44	.37	.48	.40	.35	.44	.37	.32	.40	.34	.30	.27
6.0	.49	.40	.33	.47	.38	.32	.43	.35	.30	.39	.33	.28	.36	.30	.26	.24
7.0	.44	.35	.29	.42	.34	.28	.39	.32	.26	.36	.29	.25	.33	.27	.23	.21
8.0	.40	.31	.25	.38	.30	.25	.35	.28	.23	.33	.26	.22	.30	.24	.21	.18
9.0	.37	.28	.23	.35	.27	.22	.32	.26	.21	.30	.24	.20	.27	.22	.18	.16
10.0	.34	.26	.20	.32	.25	.20	.30	.23	.19	.28	.22	.18	.25	.20	.17	.15



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3 °C
 Operators:DAMIN
 Test Date:20 April 2026

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
 Humidity:65.0%
 Test Distance:7.380m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:119.95V I:0.2698A P:29.538W PF:0.9127 Freq:59.98Hz		
Lamp Flux:2809.81x1 lm		
NAME: WS36-085-BN 30W 50K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	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	.385	.219	.069	.372	.212	.067	.346	.199	.063	.323	.186	.060	.301	.175	.056	
2.0	.333	.183	.056	.321	.177	.054	.298	.166	.051	.277	.155	.049	.257	.145	.046	
3.0	.296	.157	.047	.285	.152	.046	.264	.143	.043	.244	.134	.041	.227	.125	.039	
4.0	.266	.138	.041	.256	.134	.040	.237	.126	.038	.220	.118	.036	.203	.110	.034	
5.0	.242	.123	.036	.233	.119	.035	.215	.112	.033	.199	.105	.031	.184	.099	.030	
6.0	.221	.111	.032	.213	.108	.031	.197	.101	.029	.183	.095	.028	.169	.089	.026	
7.0	.204	.101	.029	.197	.098	.028	.182	.092	.027	.169	.086	.025	.156	.081	.024	
8.0	.189	.093	.026	.182	.090	.025	.169	.085	.024	.157	.079	.023	.145	.074	.022	
9.0	.176	.085	.024	.170	.083	.023	.158	.078	.022	.146	.073	.021	.135	.069	.020	
10.0	.165	.079	.022	.159	.077	.021	.148	.072	.020	.137	.068	.019	.127	.064	.018	

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																
1.0	.349	.349	.349	.298	.298	.298	.204	.204	.204	.117	.117	.117	.037	.037	.037	
2.0	.339	.293	.254	.290	.252	.220	.199	.174	.153	.115	.101	.090	.037	.033	.029	
3.0	.331	.276	.233	.284	.238	.202	.195	.166	.141	.113	.097	.083	.036	.031	.027	
4.0	.324	.264	.218	.278	.228	.190	.191	.159	.134	.110	.093	.079	.036	.030	.026	
5.0	.316	.254	.209	.271	.220	.182	.187	.154	.128	.108	.090	.076	.035	.029	.025	
6.0	.309	.246	.202	.265	.213	.176	.183	.149	.124	.106	.088	.074	.034	.029	.024	
7.0	.302	.240	.197	.259	.208	.171	.179	.146	.121	.104	.086	.072	.034	.028	.024	
8.0	.295	.234	.193	.254	.203	.168	.176	.143	.119	.102	.084	.071	.033	.028	.024	
9.0	.289	.230	.190	.249	.199	.165	.172	.140	.117	.100	.083	.070	.033	.027	.023	
10.0	.283	.225	.187	.244	.196	.163	.169	.138	.116	.099	.081	.069	.032	.027	.023	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:20 April 2026

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
 Humidity:65.0%
 Test Distance:7.380m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:119.95V I:0.2698A P:29.538W PF:0.9127 Freq:59.98Hz Lamp Flux:2809.81x1 lm		
NAME: WS36-085-BN 30W 50K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	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	13.4	14.8	13.9	15.3	15.9	15.8	17.1	16.3	17.6	18.3
3H	14.9	16.2	15.5	16.8	17.4	18.6	19.8	19.2	20.4	21.1
4H	15.6	16.7	16.2	17.3	18.0	20.2	21.4	20.8	22.0	22.7
6H	16.0	17.1	16.6	17.7	18.5	22.0	23.1	22.6	23.7	24.4
8H	16.2	17.2	16.8	17.9	18.6	23.0	24.1	23.6	24.7	25.4
12H	16.3	17.3	16.9	17.9	18.7	24.2	25.2	24.8	25.8	26.6
4H 2H	14.6	15.7	15.2	16.3	17.0	16.3	17.4	16.8	18.0	18.7
3H	16.4	17.4	17.0	18.1	18.8	19.3	20.3	19.9	21.0	21.7
4H	17.2	18.2	17.9	18.8	19.6	21.1	22.0	21.7	22.7	23.4
6H	17.9	18.7	18.6	19.4	20.2	23.1	23.9	23.8	24.6	25.4
8H	18.1	18.9	18.8	19.6	20.4	24.2	25.0	24.9	25.7	26.5
12H	18.3	19.0	19.0	19.8	20.6	25.5	26.3	26.2	27.0	27.8
8H 4H	18.3	19.1	19.0	19.7	20.6	21.3	22.1	22.0	22.8	23.6
6H	19.3	20.0	20.0	20.7	21.6	23.6	24.3	24.3	25.0	25.9
8H	19.8	20.4	20.5	21.1	22.0	24.9	25.5	25.7	26.3	27.2
12H	20.2	20.7	20.9	21.5	22.3	26.5	27.0	27.3	27.8	28.7
12H 4H	18.6	19.3	19.3	20.0	20.9	21.4	22.1	22.1	22.8	23.6
6H	19.9	20.5	20.6	21.2	22.1	23.7	24.3	24.4	25.0	25.9
8H	20.5	21.0	21.3	21.8	22.7	25.1	25.6	25.9	26.4	27.3

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 / - 0.2
2.0H	+ 0.3 / - 0.5	+ 0.2 / - 0.3

CIE Pub.117, 2810 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.6)
Area: 0.1 m2

C Range: 0 - 360DEG	γ Range: 0 - 180DEG
C Interval: 90.0DEG	γ Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Temperature:25.3℃	Humidity:65.0%
Operators:DAMIN	Test Distance:7.380m [K=1.0000]
Test Date:20 April 2026	Remarks:

UTILIZATION FACTORS TABLE

Test:U:119.95V I:0.2698A P:29.538W PF:0.9127 Freq:59.98Hz Lamp Flux:2809.81x1 lm		
NAME: WS36-085-BN 30W 50K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

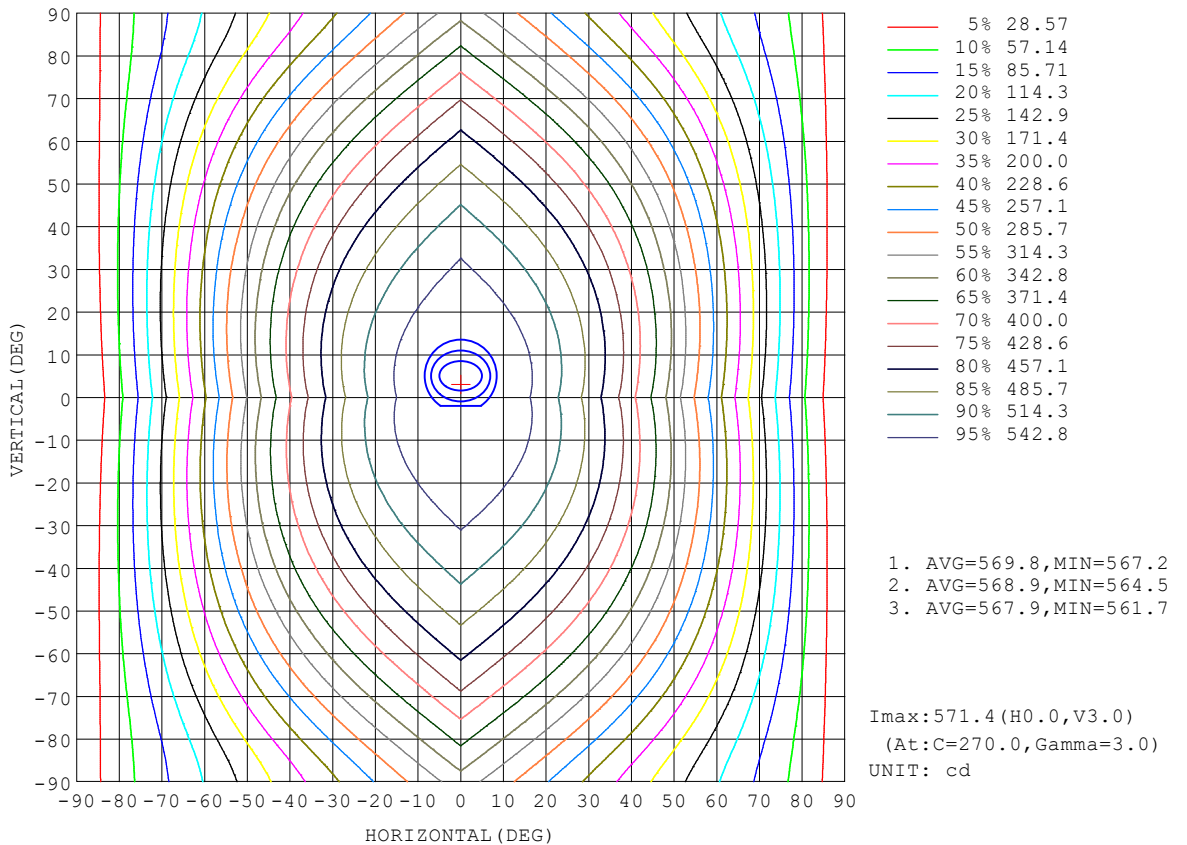
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	47	34	27	46	34	27	43	33	26	19
0.80	56	43	35	54	42	34	51	40	33	25
1.00	64	51	42	62	49	42	58	50	40	31
1.25	71	58	49	68	56	48	63	54	46	36
1.50	76	63	55	73	62	54	68	58	51	40
2.00	83	72	63	80	70	62	74	65	59	46
2.50	88	77	69	84	75	67	77	70	64	50
3.00	91	82	74	87	79	72	80	74	68	54
4.00	96	88	81	92	85	79	84	78	74	58
5.00	99	92	86	95	88	83	87	82	77	61
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:20 April 2026

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
 Humidity:65.0%
 Test Distance:7.380m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:119.95V I:0.2698A P:29.538W PF:0.9127 Freq:59.98Hz Lamp Flux:2809.81x1 lm		
NAME: WS36-085-BN 30W 50K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

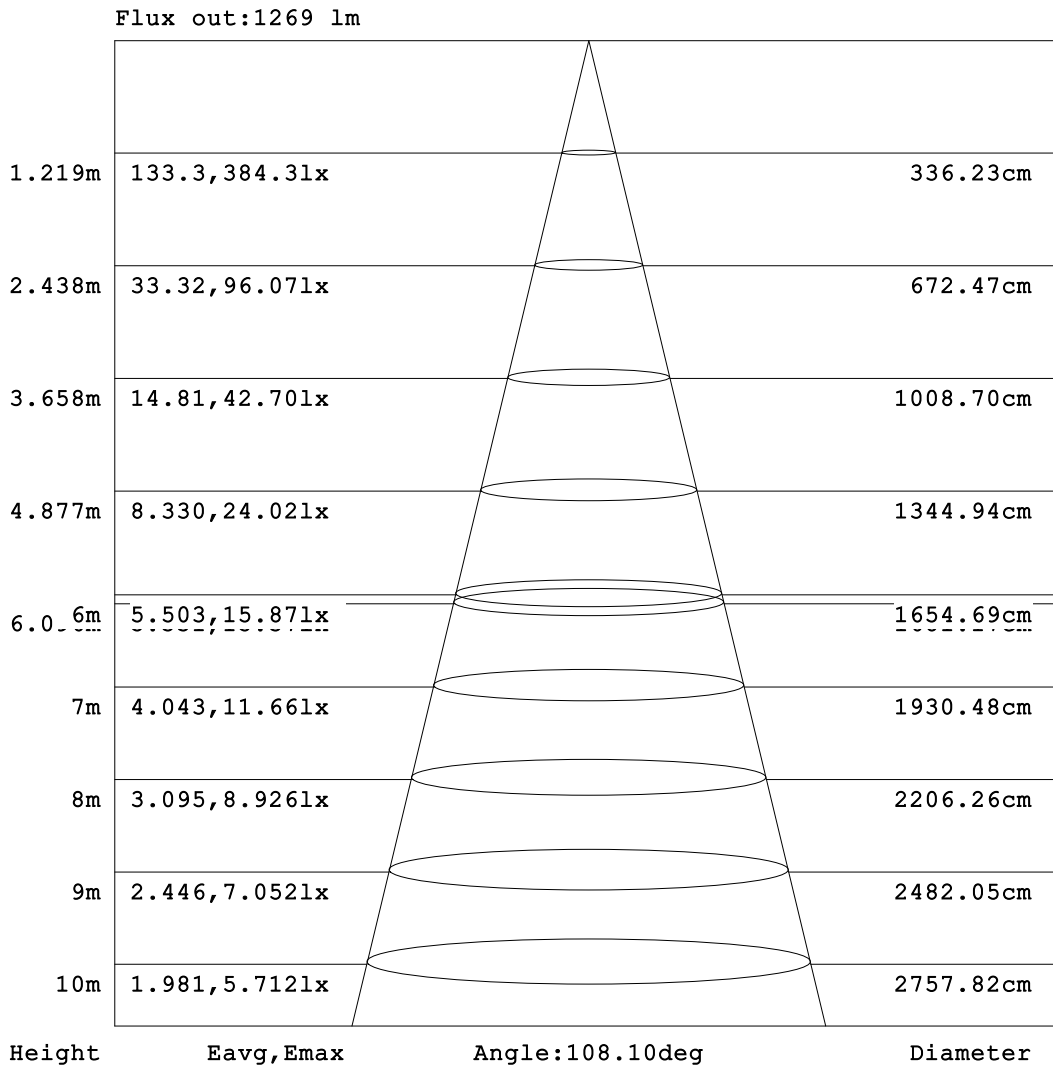


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3 °C
Operators:DAMIN
Test Date:20 April 2026

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity:65.0%
Test Distance:7.380m [K=1.0000]
Remarks:

AAI Figure

Test:U:119.95V I:0.2698A P:29.538W PF:0.9127 Freq:59.98Hz Lamp Flux:2809.81x1 lm		
NAME: WS36-085-BN 30W 50K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:



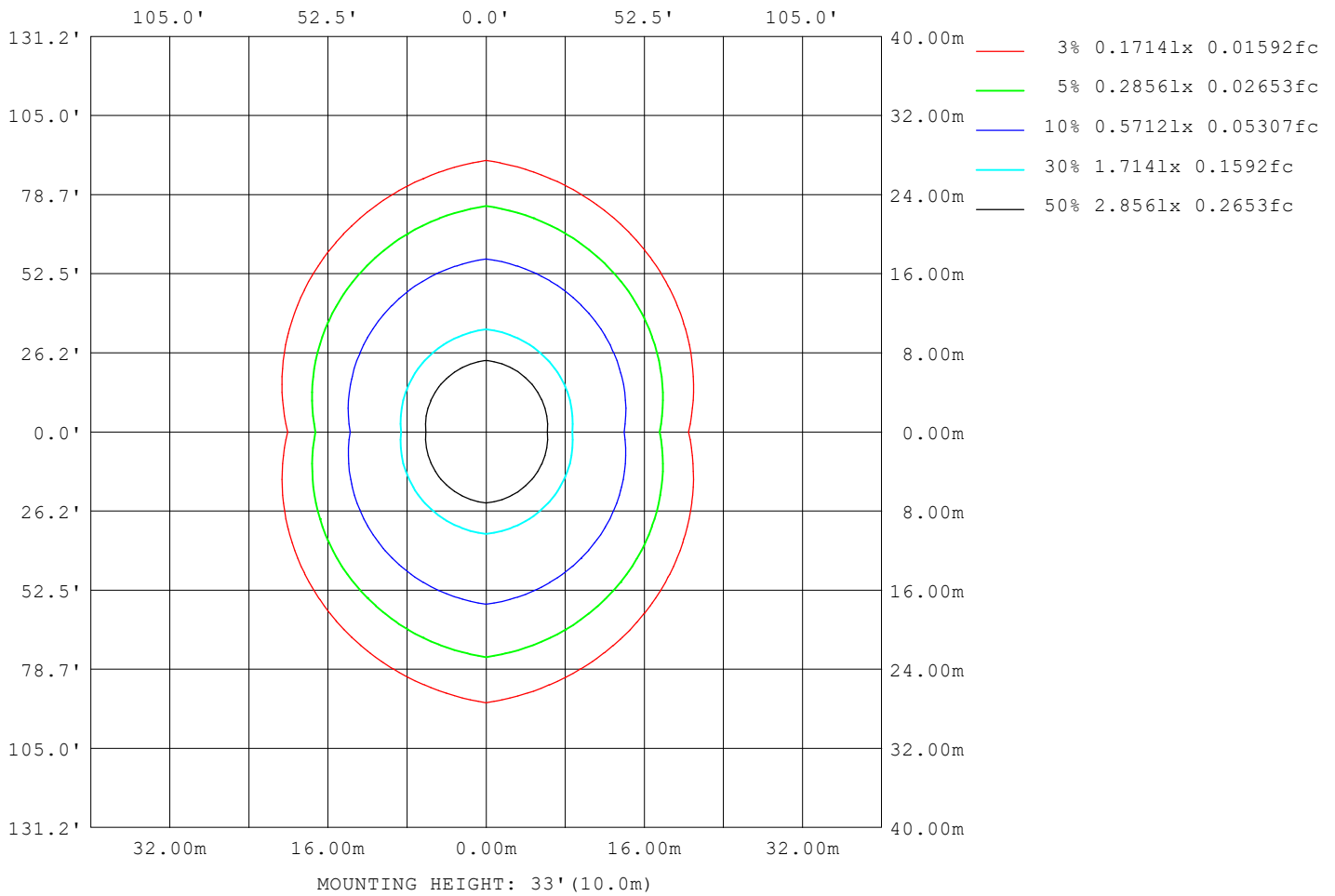
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:20 April 2026

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity:65.0%
Test Distance:7.380m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:119.95V I:0.2698A P:29.538W PF:0.9127 Freq:59.98Hz Lamp Flux:2809.81x1 lm		
NAME: WS36-085-BN 30W 50K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:20 April 2026

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
 Humidity:65.0%
 Test Distance:7.380m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:119.95V I:0.2698A P:29.538W PF:0.9127 Freq:59.98Hz Lamp Flux:2809.81x1 lm		
NAME: WS36-085-BN 30W 50K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

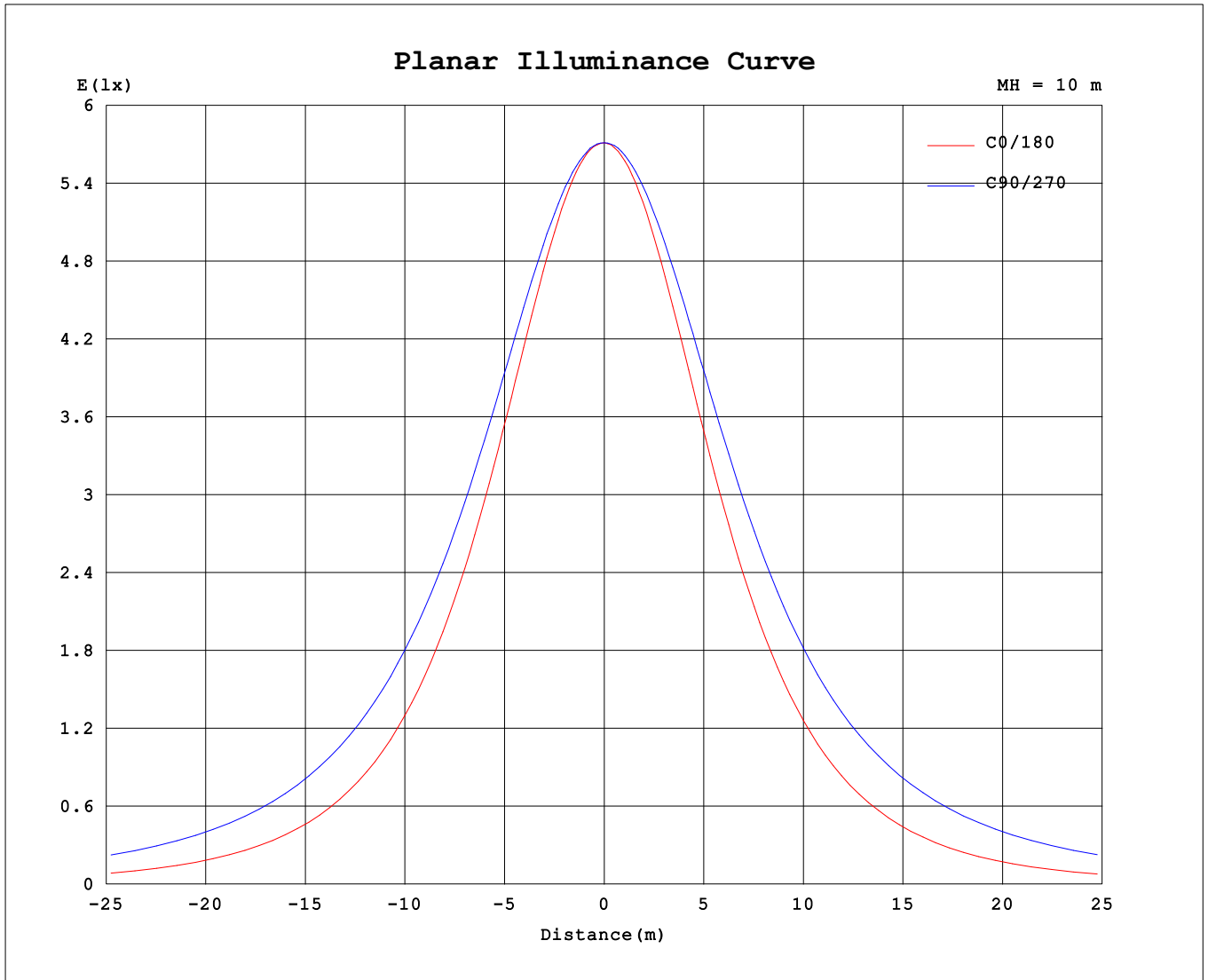
AvgL	cd/m2
L_0~180 (65) av	4402
L_0~180 (75) av	3730
L_0~180 (85) av	2753
L_90~270 (65) av	10553
L_90~270 (75) av	15590
L_90~270 (85) av	40939
L_45 (65) av	8236
L_45 (75) av	11127
L_45 (85) av	26590

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:20 April 2026

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
 Humidity:65.0%
 Test Distance:7.380m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: DAMIN
 Test Date: 20 April 2026

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
 Humidity: 65.0%
 Test Distance: 7.380m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.95V I:0.2698A P:29.538W PF:0.9127 Freq:59.98Hz Lamp Flux:2809.81x1 lm		
NAME: WS36-085-BN 30W 50K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	90	180	270															
0	571	571	571	571															
5	569	570	567	571															
10	561	568	558	569															
15	547	565	543	566															
20	528	560	522	561															
25	504	553	497	555															
30	475	545	467	547															
35	443	535	434	538															
40	407	524	397	527															
45	368	511	357	515															
50	327	496	315	500															
55	283	480	271	484															
60	238	463	226	467															
65	193	444	179	448															
70	147	424	134	427															
75	103	402	90.3	405															
80	62.0	379	50.8	382															
85	28.1	355	19.9	358															
90	9.69	330	8.43	333															
95	9.86	291	9.61	294															
100	12.3	246	12.7	247															
105	15.9	197	16.8	199															
110	20.2	180	21.3	179															
115	24.7	171	25.3	170															
120	25.7	151	25.6	152															
125	27.9	131	26.2	130															
130	30.4	118	29.0	117															
135	33.0	106	31.6	105															
140	34.6	96.7	32.7	88.2															
145	35.8	87.3	34.3	82.3															
150	37.5	77.9	35.9	75.6															
155	38.9	70.8	37.3	67.4															
160	42.0	66.7	40.3	65.1															
165	51.1	62.4	49.4	60.9															
170	54.8	52.8	53.3	56.9															
175	58.4	40.0	57.0	48.0															
180	58.4	34.7	58.4	34.7															

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:20 April 2026

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
 Humidity:65.0%
 Test Distance:7.380m [K=1.0000]
 Remarks: