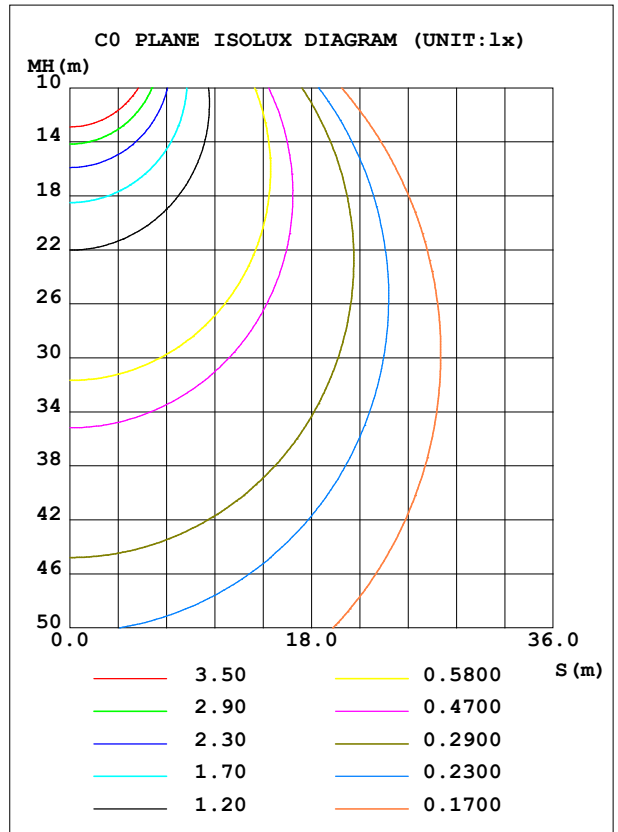
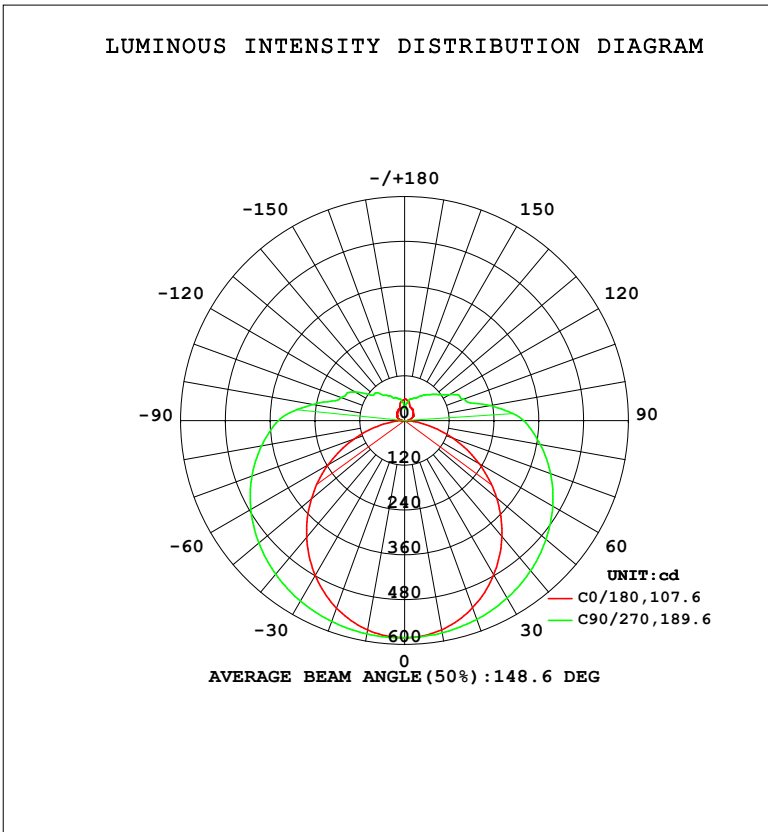


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.91V I:0.2714A P:29.756W PF:0.9142 Freq:59.98Hz Lamp Flux:2811.45x1 lm		
NAME: WS36-085-BK 30W 35K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 94.48 lm/W
MODEL	3500K	I <sub>max</sub> (cd)	582.4	S/MH (C0/180)	1.23	
NOMINAL POWER (W)	30	LOR (%)	100.0	S/MH (C90/270)	1.45	
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	2811.4	η UP, DN (C0-180)	10.0, 39.3	
NOMINAL FLUX (lm)	2811.45	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	10.3, 40.4	
LAMPS INSIDE	1	η up (%)	20.3	CIBSE SHR NOM	1.50	
TEST VOLTAGE (V)	120	η down (%)	79.7	CIBSE SHR MAX	1.55	



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3 °C  
 Operators: DAMIN  
 Test Date: 07 May 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:

$\gamma$	C0	C90	C180	C270				$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	569.3	577.6	569.9	580.4				0- 10	55.19	55.19	1.96,1.96
20	533.5	566.6	534.6	572.8				10- 20	159.6	214.8	7.64,7.64
30	477.5	549.0	479.1	558.7				20- 30	247.1	461.9	16.4,16.4
40	405.5	525.1	408.5	537.4				30- 40	309.4	771.3	27.4,27.4
50	322.0	494.7	326.3	509.9				40- 50	341.6	1113	39.6,39.6
60	230.8	458.5	236.8	476.2				50- 60	342.5	1455	51.8,51.8
70	137.0	416.2	144.0	435.1				60- 70	314.1	1770	62.9,62.9
80	51.22	369.0	58.58	388.8				70- 80	263.7	2033	72.3,72.3
90	8.561	319.2	8.315	338.5				80- 90	207.1	2240	79.7,79.7
100	12.56	233.5	11.40	250.3				90-100	162.5	2403	85.5,85.5
110	21.03	168.5	19.20	181.7				100-110	114.2	2517	89.5,89.5
120	26.85	140.4	24.12	154.1				110-120	93.18	2610	92.8,92.8
130	31.25	109.6	27.17	108.1				120-130	68.30	2679	95.3,95.3
140	35.72	90.67	30.85	89.07				130-140	51.50	2730	97.1,97.1
150	38.31	73.25	34.12	76.51				140-150	36.86	2767	98.4,98.4
160	41.64	63.11	38.44	65.07				150-160	24.49	2791	99.3,99.3
170	53.87	48.55	51.44	57.83				160-170	15.21	2807	99.8,99.8
180	57.37	33.14	57.36	33.14				170-180	4.810	2811	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm		

Conical surface Flux(90deg): 940.1 lm

%lum = 33.4%

%lamp = 33.4%

Conical surface Flux(120deg): 1455.5 lm

%lum = 51.8%

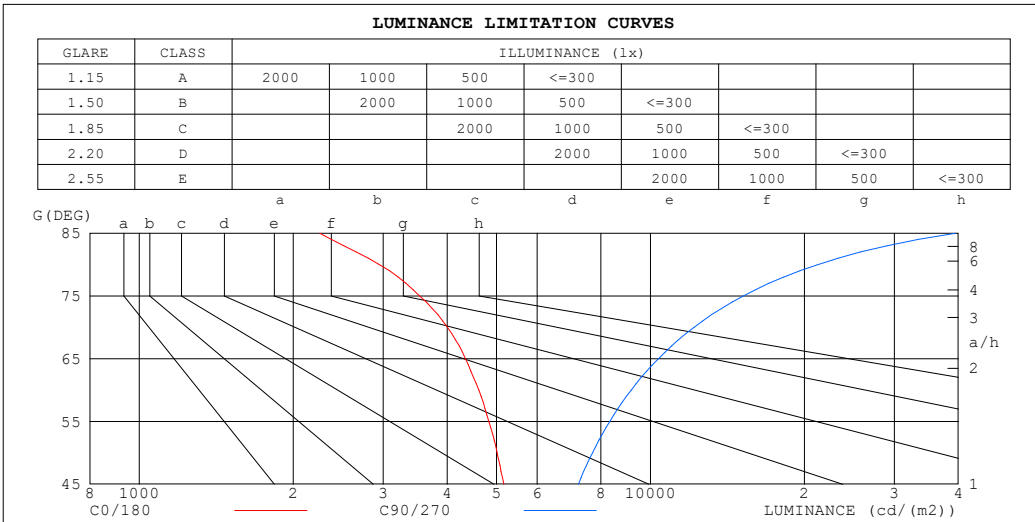
%lamp = 51.8%

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3℃  
 Operators:DAMIN  
 Test Date:07 May 2026

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:119.91V I:0.2714A P:29.756W PF:0.9142 Freq:59.98Hz Lamp Flux:2811.45x1 lm		
NAME: WS36-085-BK 30W 35K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2255	39523
80	2950	21251
75	3536	15196
70	4006	12169
65	4347	10365
60	4615	9169
55	4828	8325
50	5010	7696
45	5164	7228

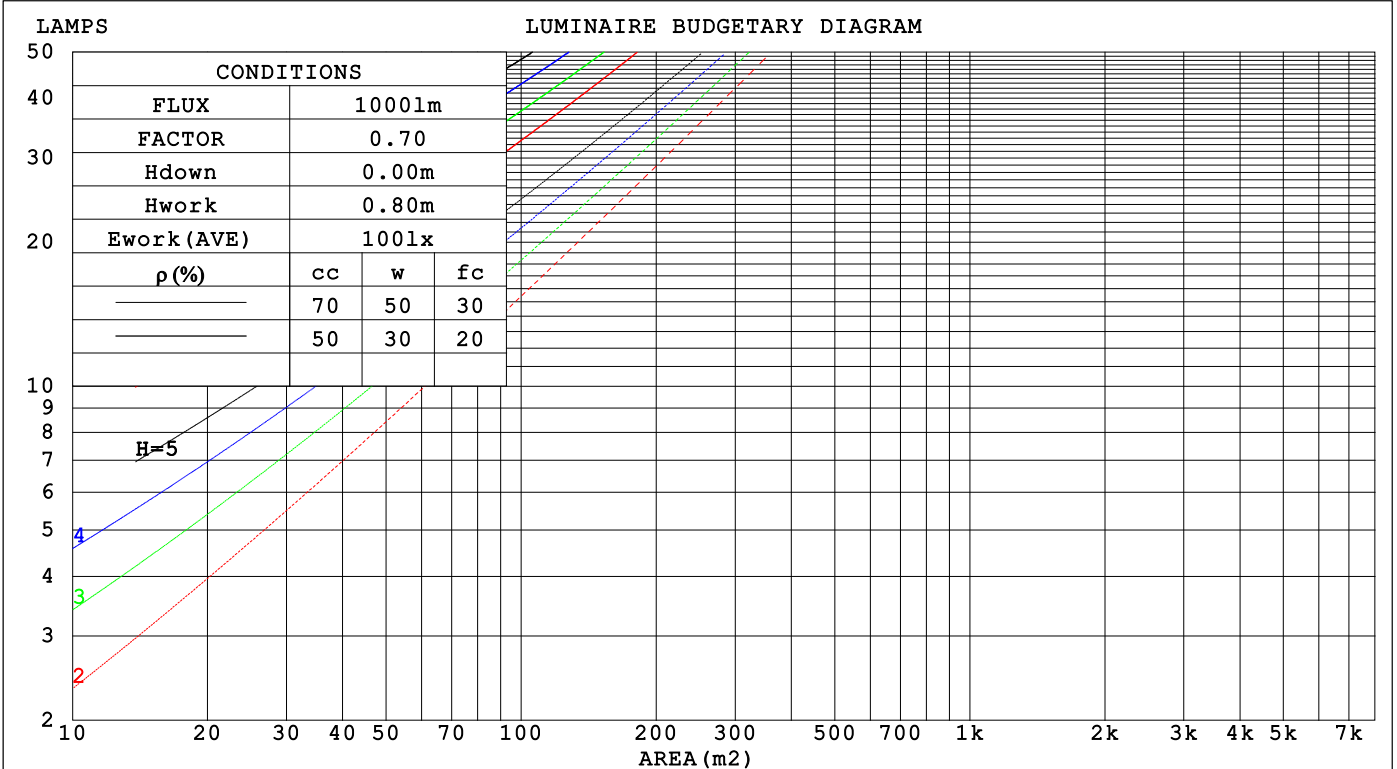
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3 °C  
 Operators: DAMIN  
 Test Date: 07 May 2026

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:119.91V I:0.2714A P:29.756W PF:0.9142 Freq:59.98Hz Lamp Flux:2811.45x1 lm		
NAME: WS36-085-BK 30W 35K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	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	.80
1.0	.95	.90	.85	.91	.86	.82	.83	.79	.75	.75	.72	.69	.68	.66	.64	.60
2.0	.81	.73	.67	.78	.71	.64	.71	.65	.60	.64	.60	.56	.58	.55	.51	.48
3.0	.70	.61	.54	.67	.59	.52	.61	.55	.49	.56	.50	.46	.51	.46	.42	.39
4.0	.62	.52	.45	.59	.50	.44	.54	.47	.41	.49	.43	.38	.45	.40	.36	.33
5.0	.55	.45	.38	.52	.44	.37	.48	.41	.35	.44	.38	.33	.40	.35	.31	.28
6.0	.49	.40	.33	.47	.38	.32	.43	.36	.30	.39	.33	.28	.36	.31	.27	.24
7.0	.44	.35	.29	.42	.34	.28	.39	.32	.26	.36	.30	.25	.33	.27	.23	.21
8.0	.40	.31	.25	.39	.30	.25	.36	.28	.23	.33	.27	.22	.30	.25	.21	.19
9.0	.37	.28	.23	.35	.27	.22	.33	.26	.21	.30	.24	.20	.28	.22	.19	.17
10.0	.34	.26	.20	.32	.25	.20	.30	.23	.19	.28	.22	.18	.26	.21	.17	.15



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3 °C  
 Operators:DAMIN  
 Test Date:07 May 2026

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:119.91V I:0.2714A P:29.756W PF:0.9142 Freq:59.98Hz		
Lamp Flux:2811.45x1 lm		
NAME: WS36-085-BK 30W 35K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

$\rho_{CC}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.384	.218	.069	.371	.211	.067	.345	.198	.063	.322	.186	.060	.301	.174	.056	
2.0	.332	.182	.056	.320	.176	.054	.298	.165	.051	.277	.155	.049	.257	.145	.046	
3.0	.295	.157	.047	.284	.152	.046	.264	.143	.043	.245	.134	.041	.227	.126	.039	
4.0	.266	.138	.041	.256	.134	.040	.237	.126	.038	.220	.118	.036	.204	.111	.034	
5.0	.242	.123	.036	.233	.119	.035	.216	.112	.033	.200	.105	.031	.185	.099	.030	
6.0	.221	.111	.032	.213	.108	.031	.198	.101	.029	.183	.095	.028	.170	.089	.027	
7.0	.204	.101	.029	.197	.098	.028	.182	.092	.027	.169	.087	.025	.157	.081	.024	
8.0	.189	.093	.026	.182	.090	.025	.169	.085	.024	.157	.080	.023	.146	.075	.022	
9.0	.176	.085	.024	.170	.083	.023	.158	.078	.022	.147	.074	.021	.136	.069	.020	
10.0	.165	.079	.022	.159	.077	.021	.148	.073	.020	.138	.068	.019	.128	.064	.018	

$\rho_{CC}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.345	.345	.345	.295	.295	.295	.201	.201	.201	.116	.116	.116	.037	.037	.037	
1.0	.341	.312	.285	.292	.267	.245	.200	.184	.169	.115	.106	.098	.037	.034	.032	
2.0	.335	.289	.250	.287	.249	.216	.196	.172	.151	.113	.100	.088	.036	.032	.029	
3.0	.327	.272	.229	.281	.235	.198	.193	.163	.139	.111	.095	.082	.036	.031	.027	
4.0	.320	.260	.214	.274	.225	.186	.189	.157	.131	.109	.092	.078	.035	.030	.026	
5.0	.312	.250	.205	.268	.216	.178	.185	.151	.126	.107	.089	.075	.034	.029	.025	
6.0	.305	.242	.198	.262	.210	.172	.181	.147	.122	.105	.086	.072	.034	.028	.024	
7.0	.297	.236	.193	.256	.204	.168	.177	.143	.119	.103	.084	.071	.033	.028	.023	
8.0	.291	.230	.189	.250	.200	.164	.173	.140	.117	.101	.083	.070	.033	.027	.023	
9.0	.285	.225	.186	.245	.196	.162	.170	.138	.115	.099	.081	.069	.032	.027	.023	
10.0	.279	.221	.183	.240	.192	.160	.167	.135	.114	.097	.080	.068	.032	.026	.022	

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3℃  
 Operators:DAMIN  
 Test Date:07 May 2026

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:119.91V I:0.2714A P:29.756W PF:0.9142 Freq:59.98Hz Lamp Flux:2811.45x1 lm		
NAME: WS36-085-BK 30W 35K	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	13.3	14.6	13.8	15.2	15.8	15.7	17.0	16.2	17.6	18.2
3H	14.7	16.0	15.3	16.5	17.2	18.5	19.8	19.1	20.3	21.0
4H	15.3	16.5	15.9	17.1	17.7	20.1	21.3	20.7	21.9	22.5
6H	15.7	16.8	16.3	17.4	18.1	21.9	23.0	22.5	23.6	24.3
8H	15.8	16.8	16.4	17.5	18.2	22.9	23.9	23.5	24.6	25.3
12H	15.8	16.8	16.4	17.5	18.2	24.0	25.0	24.6	25.7	26.4
4H 2H	14.4	15.6	15.0	16.2	16.9	16.2	17.4	16.8	17.9	18.6
3H	16.2	17.2	16.8	17.8	18.6	19.2	20.2	19.8	20.8	21.6
4H	16.9	17.9	17.6	18.5	19.3	20.9	21.9	21.6	22.5	23.3
6H	17.5	18.4	18.2	19.1	19.8	22.9	23.8	23.6	24.4	25.2
8H	17.7	18.5	18.4	19.2	20.0	24.0	24.8	24.7	25.5	26.3
12H	17.9	18.6	18.6	19.3	20.1	25.3	26.1	26.1	26.8	27.6
8H 4H	18.0	18.8	18.7	19.5	20.3	21.2	22.0	21.9	22.7	23.5
6H	19.0	19.6	19.7	20.4	21.2	23.4	24.1	24.2	24.8	25.7
8H	19.4	20.0	20.1	20.7	21.6	24.8	25.4	25.5	26.1	27.0
12H	19.7	20.2	20.5	21.0	21.9	26.3	26.8	27.1	27.6	28.5
12H 4H	18.3	19.1	19.0	19.8	20.6	21.2	21.9	21.9	22.6	23.5
6H	19.5	20.1	20.3	20.9	21.7	23.5	24.1	24.2	24.8	25.7
8H	20.1	20.7	20.9	21.4	22.3	24.9	25.4	25.7	26.2	27.1

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, 2811 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:07 May 2026	Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:119.91V I:0.2714A P:29.756W PF:0.9142 Freq:59.98Hz Lamp Flux:2811.45x1 lm		
NAME: WS36-085-BK 30W 35K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

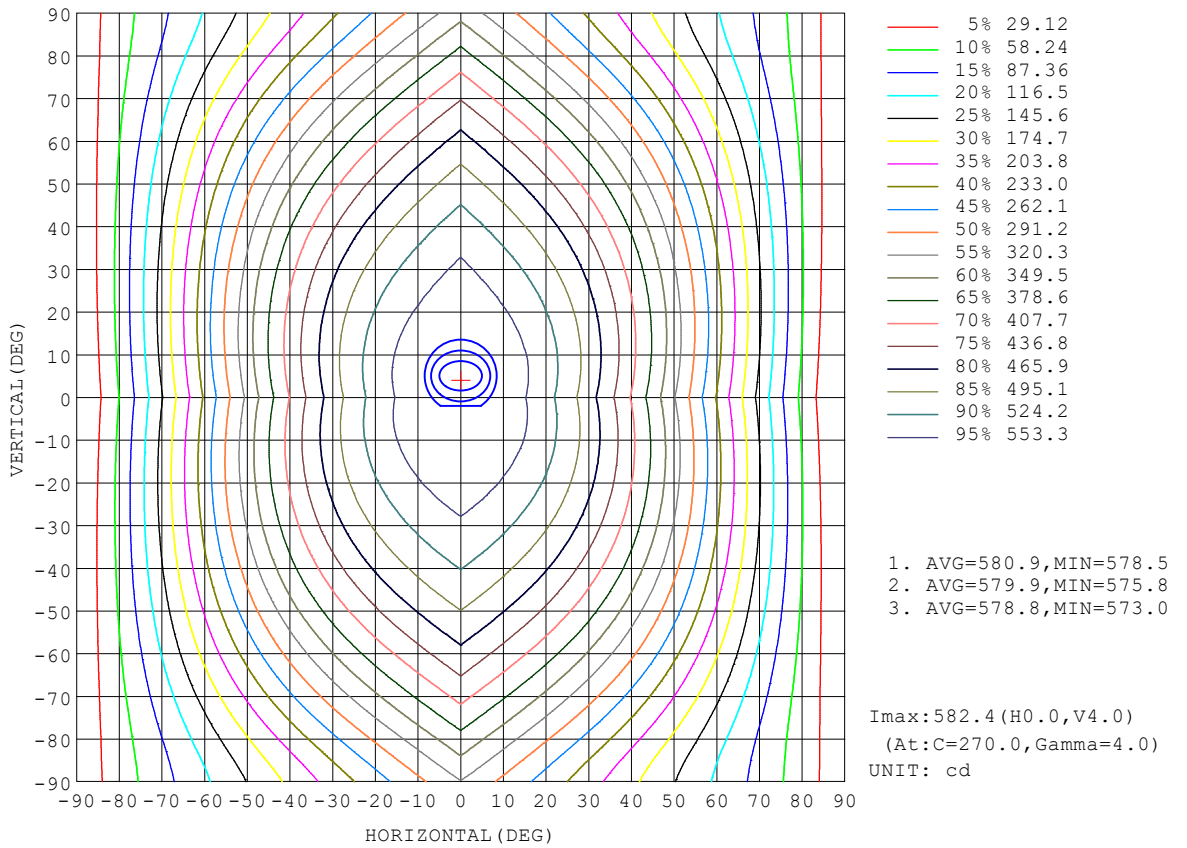
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	47	35	27	46	34	27	44	33	27	20
0.80	56	43	35	54	42	35	51	41	34	26
1.00	64	51	43	62	50	42	58	50	41	32
1.25	71	58	50	68	57	49	64	54	47	37
1.50	76	64	55	73	62	54	68	59	52	41
2.00	83	72	64	80	70	62	74	66	59	47
2.50	88	78	70	84	75	68	78	70	64	51
3.00	92	82	75	88	79	72	81	74	68	54
4.00	96	88	82	92	85	79	85	79	74	59
5.00	99	92	86	95	89	83	87	82	78	62
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:07 May 2026

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:119.91V I:0.2714A P:29.756W PF:0.9142 Freq:59.98Hz Lamp Flux:2811.45x1 lm		
NAME: WS36-085-BK 30W 35K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

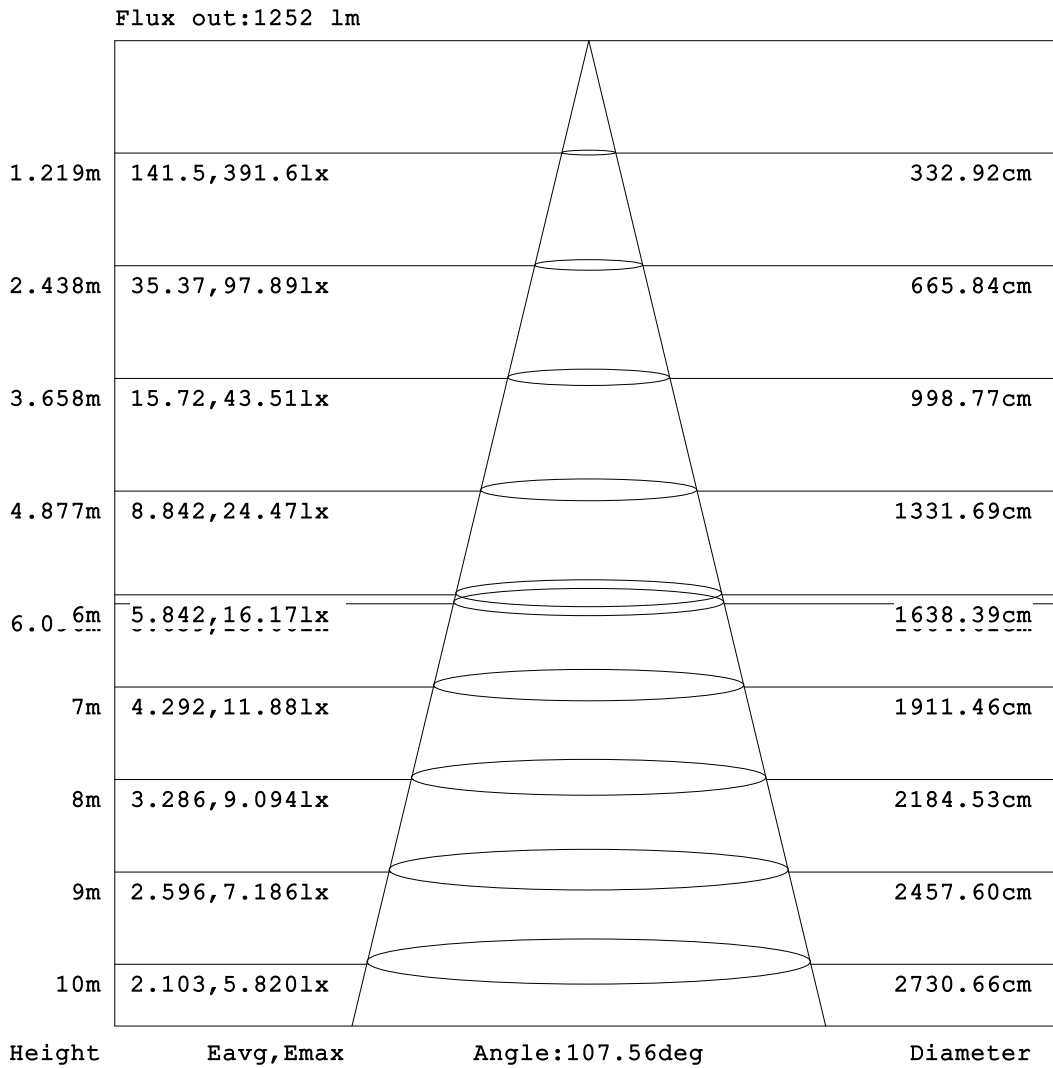


C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators: DAMIN  
Test Date: 07 May 2026

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:119.91V I:0.2714A P:29.756W PF:0.9142 Freq:59.98Hz Lamp Flux:2811.45x1 lm		
NAME: WS36-085-BK 30W 35K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:



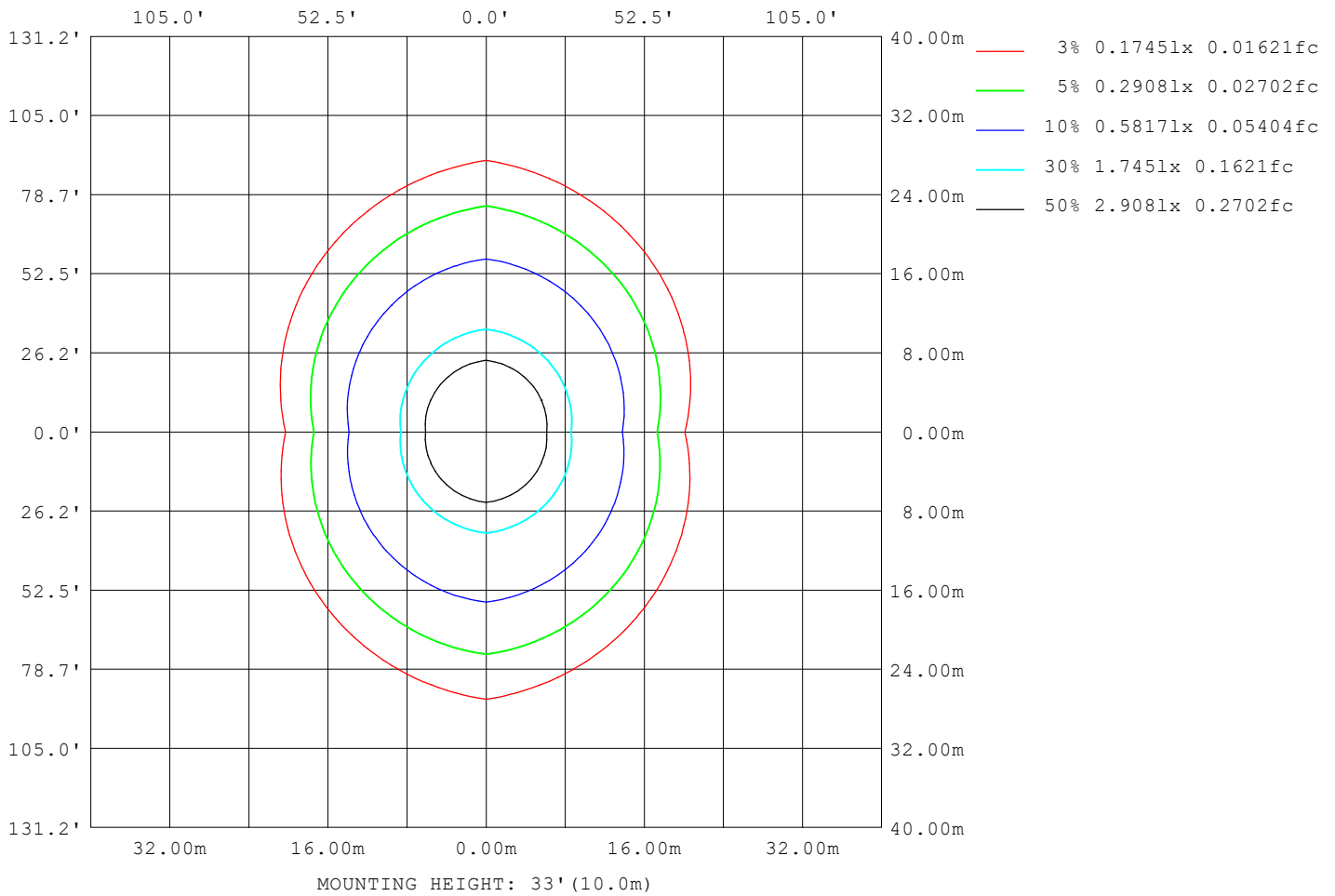
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:DAMIN  
Test Date:07 May 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:119.91V I:0.2714A P:29.756W PF:0.9142 Freq:59.98Hz Lamp Flux:2811.45x1 lm		
NAME: WS36-085-BK 30W 35K	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:07 May 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:119.91V I:0.2714A P:29.756W PF:0.9142 Freq:59.98Hz Lamp Flux:2811.45x1 lm		
NAME: WS36-085-BK 30W 35K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

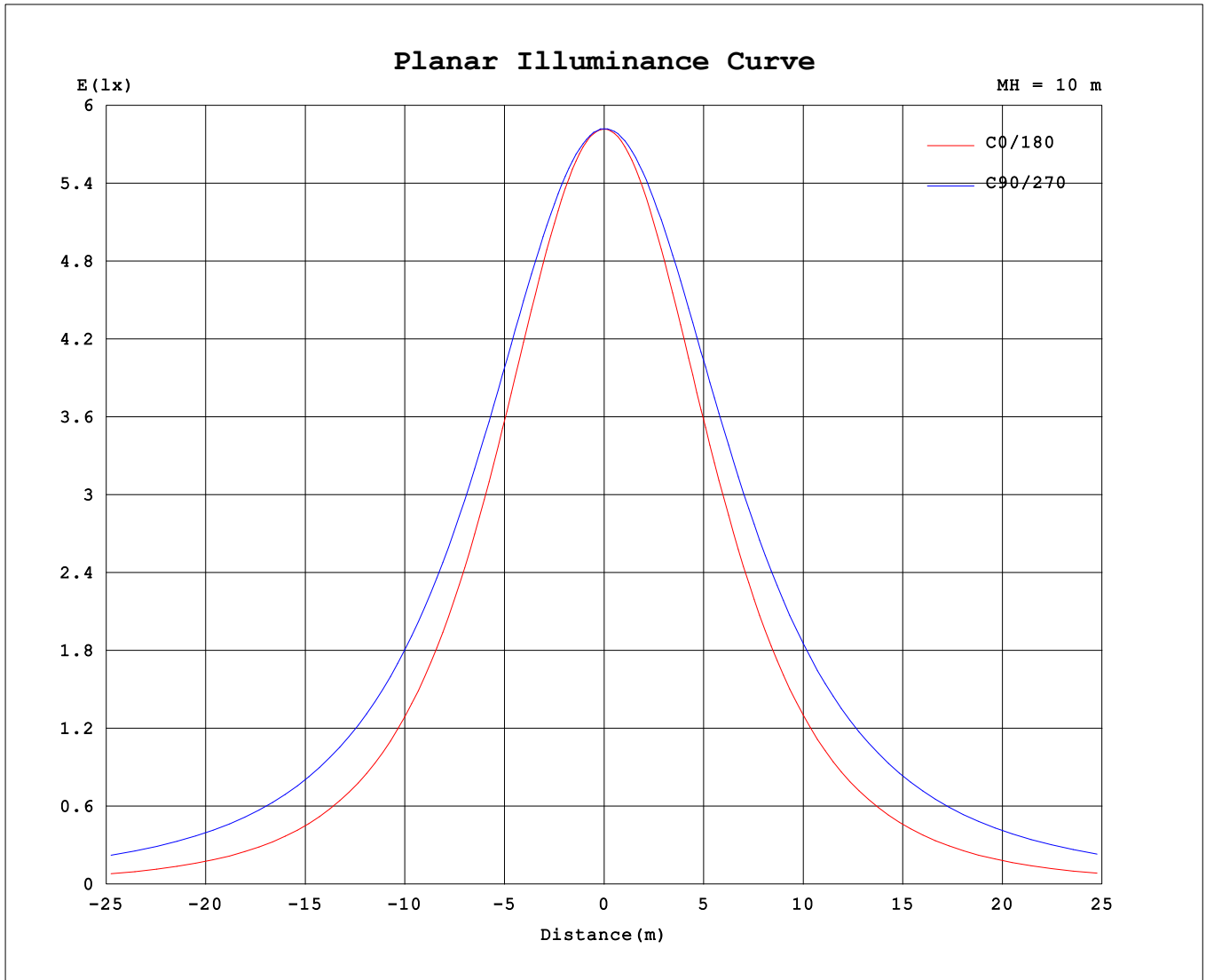
AvgL	cd/m2
L_0~180 (65) av	4419
L_0~180 (75) av	3692
L_0~180 (85) av	2554
L_90~270 (65) av	10587
L_90~270 (75) av	15573
L_90~270 (85) av	40668
L_45 (65) av	8278
L_45 (75) av	11127
L_45 (85) av	26394

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3℃  
 Operators:DAMIN  
 Test Date:07 May 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: 07 May 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:119.91V I:0.2714A P:29.756W PF:0.9142 Freq:59.98Hz Lamp Flux:2811.45x1 lm		
NAME: WS36-085-BK 30W 35K	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	582	582	582	582															
5	579	580	579	582															
10	569	578	570	580															
15	554	573	555	577															
20	534	567	535	573															
25	508	559	509	566															
30	478	549	479	559															
35	443	538	446	549															
40	406	525	408	537															
45	365	511	369	525															
50	322	495	326	510															
55	277	478	282	494															
60	231	458	237	476															
65	184	438	190	457															
70	137	416	144	435															
75	91.5	393	99.6	413															
80	51.2	369	58.6	389															
85	19.7	344	24.9	364															
90	8.56	319	8.32	339															
95	9.82	280	9.13	299															
100	12.6	234	11.4	250															
105	16.5	184	14.9	202															
110	21.0	169	19.2	182															
115	25.7	161	23.6	172															
120	26.9	140	24.1	154															
125	28.8	121	24.4	126															
130	31.2	110	27.2	108															
135	33.8	99.4	29.5	107															
140	35.7	90.7	30.8	89.1															
145	36.7	82.2	32.5	82.9															
150	38.3	73.3	34.1	76.5															
155	39.7	66.8	35.5	67.3															
160	41.6	63.1	38.4	65.1															
165	49.7	59.5	47.2	60.6															
170	53.9	48.6	51.4	57.8															
175	57.3	35.5	55.1	48.8															
180	57.4	33.1	57.4	33.1															

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3℃  
 Operators:DAMIN  
 Test Date:07 May 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: