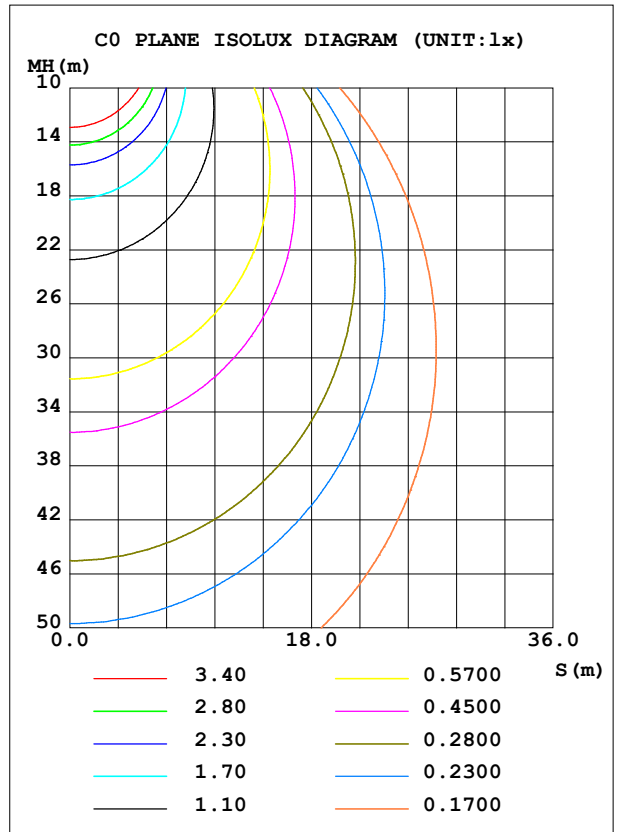
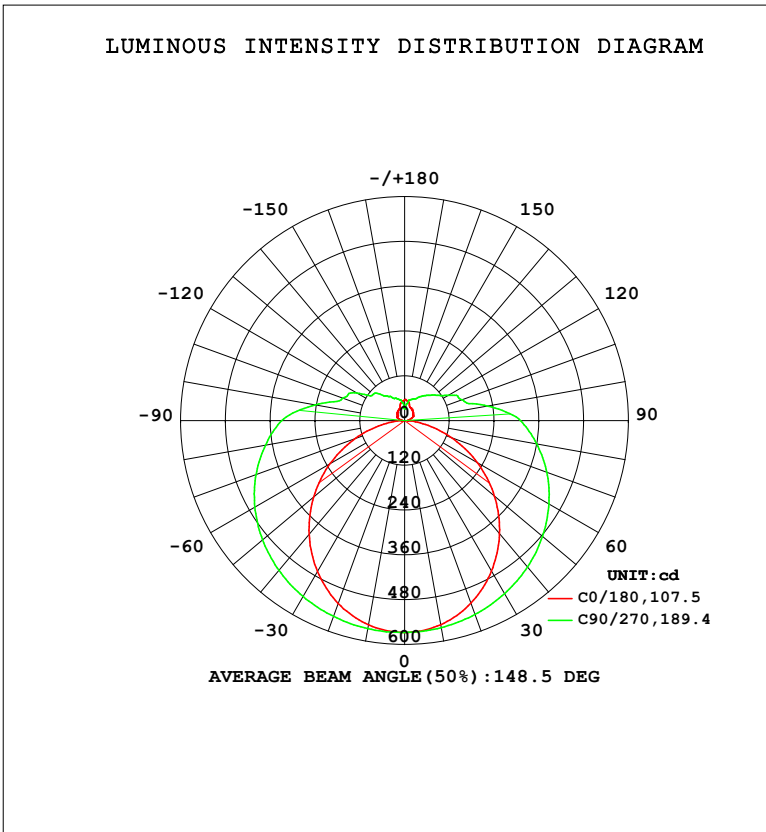


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.91V I:0.2728A P:29.834W PF:0.9120 Freq:59.98Hz Lamp Flux:2739.3x1 lm		
NAME: WS36-085-BK 30W 30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 91.82 lm/W
MODEL	3000K	I _{max} (cd)	568.1	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)	2739.3	η UP, DN (C0-180)	10.0, 39.3	
NOMINAL FLUX (lm)	2739.3	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:

γ	C0	C90	C180	C270				γ	Φ zone	Φ total	%lum,lamp
10	555.6	563.2	555.7	566.2				0- 10	53.83	53.83	1.97,1.97
20	520.3	552.3	521.4	558.1				10- 20	155.6	209.5	7.65,7.65
30	465.6	535.7	467.3	544.3				20- 30	241.0	450.4	16.4,16.4
40	395.9	512.2	398.1	523.9				30- 40	301.7	752.1	27.5,27.5
50	314.3	482.3	317.8	497.1				40- 50	333.1	1085	39.6,39.6
60	225.4	446.4	230.9	463.4				50- 60	333.8	1419	51.8,51.8
70	133.7	405.6	140.2	423.6				60- 70	306.0	1725	63,63
80	50.01	359.4	57.07	378.5				70- 80	256.9	1982	72.3,72.3
90	8.366	310.6	8.128	329.6				80- 90	201.6	2183	79.7,79.7
100	12.23	226.9	11.13	243.5				90-100	158.2	2342	85.5,85.5
110	20.49	164.1	18.73	176.6				100-110	111.1	2453	89.5,89.5
120	26.12	136.8	23.52	148.0				110-120	90.65	2544	92.9,92.9
130	30.39	106.7	26.52	110.3				120-130	66.10	2610	95.3,95.3
140	34.72	88.26	30.09	86.71				130-140	50.47	2660	97.1,97.1
150	37.23	71.31	33.30	74.47				140-150	35.88	2696	98.4,98.4
160	40.50	61.47	37.48	63.34				150-160	23.84	2720	99.3,99.3
170	52.43	47.30	50.10	56.30				160-170	14.81	2735	99.8,99.8
180	55.86	32.38	55.85	32.39				170-180	4.686	2739	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm		

Conical surface Flux(90deg): 916.68 lm

%lum = 33.5%

%lamp = 33.5%

Conical surface Flux(120deg): 1419 lm

%lum = 51.8%

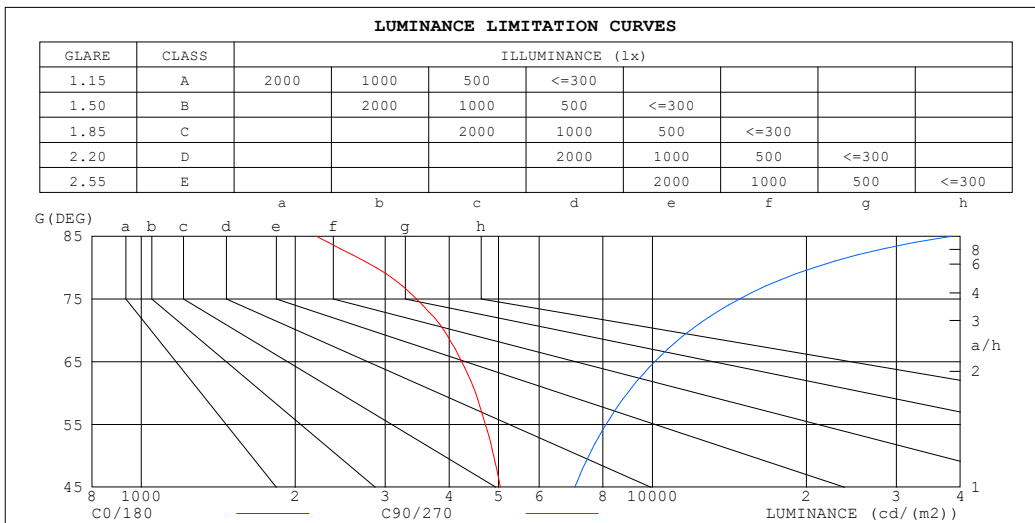
%lamp = 51.8%

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

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:119.91V I:0.2728A P:29.834W PF:0.9120 Freq:59.98Hz Lamp Flux:2739.3x1 lm		
NAME: WS36-085-BK 30W 30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2200	38485
80	2880	20699
75	3452	14805
70	3908	11860
65	4235	10098
60	4508	8929
55	4713	8110
50	4890	7503
45	5037	7046

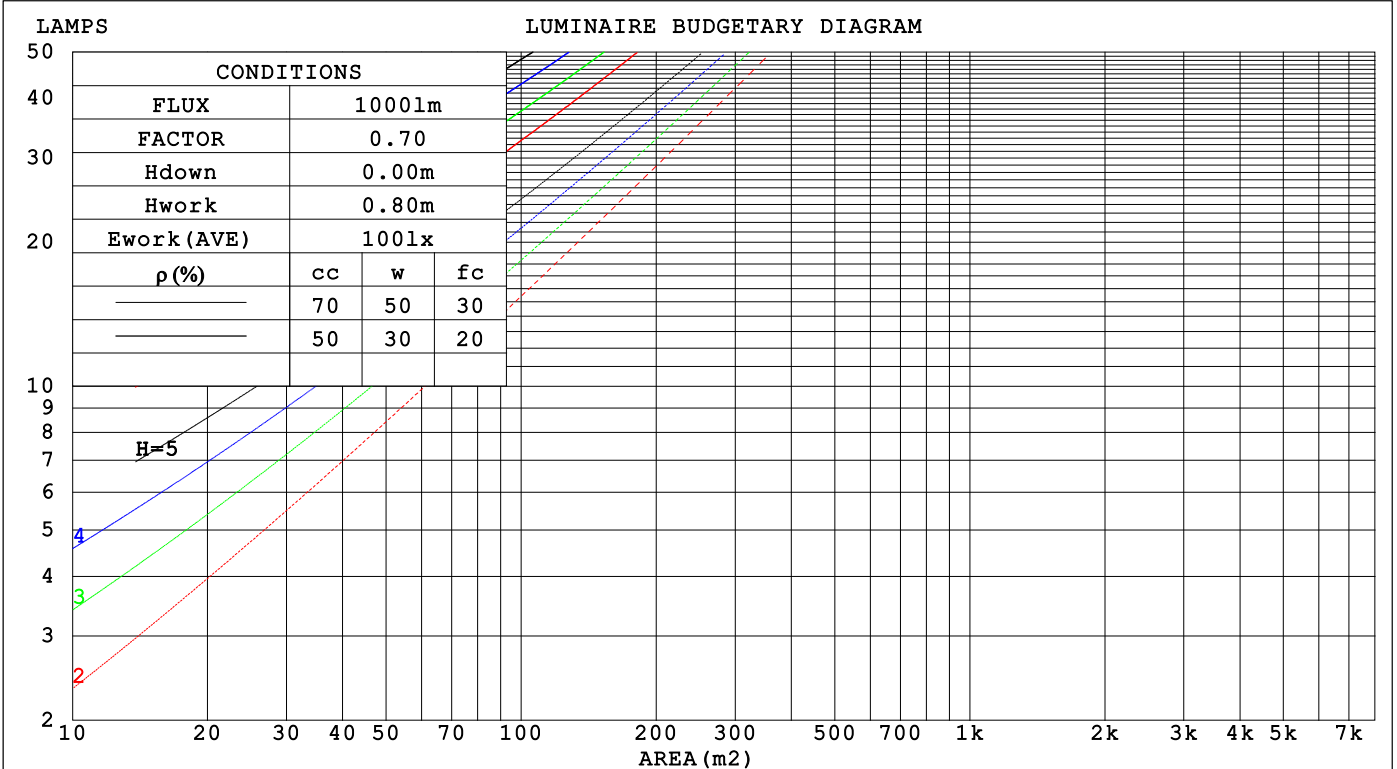
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3 °C
 Operators:DAMIN
 Test Date:07 May 2026

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:0.2728A P:29.834W PF:0.9120 Freq:59.98Hz Lamp Flux:2739.3x1 lm		
NAME: WS36-085-BK 30W 30K	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						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	.69	.66	.64	.60
2.0	.81	.73	.67	.78	.71	.65	.71	.65	.60	.64	.60	.56	.58	.55	.51	.48
3.0	.70	.61	.54	.67	.59	.53	.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	.53	.44	.37	.48	.41	.35	.44	.38	.33	.40	.35	.31	.28
6.0	.49	.40	.33	.47	.38	.32	.43	.36	.30	.40	.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

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:119.91V I:0.2728A P:29.834W PF:0.9120 Freq:59.98Hz Lamp Flux:2739.3x1 lm		
NAME: WS36-085-BK 30W 30K	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	.384	.218	.069	.370	.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	

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	.345	.345	.345	.295	.295	.295	.201	.201	.201	.116	.116	.116	.037	.037	.037	
1.0	.341	.311	.284	.292	.267	.245	.200	.184	.169	.115	.106	.098	.037	.034	.032	
2.0	.335	.289	.250	.287	.248	.216	.196	.172	.151	.113	.100	.088	.036	.032	.029	
3.0	.327	.272	.228	.280	.235	.198	.193	.163	.139	.111	.095	.082	.036	.031	.027	
4.0	.319	.260	.214	.274	.224	.186	.188	.156	.131	.109	.092	.078	.035	.030	.025	
5.0	.312	.250	.205	.268	.216	.178	.184	.151	.126	.107	.089	.075	.034	.029	.025	
6.0	.304	.242	.198	.262	.210	.172	.180	.147	.122	.105	.086	.072	.034	.028	.024	
7.0	.297	.236	.192	.256	.204	.168	.177	.143	.119	.103	.084	.071	.033	.028	.023	
8.0	.291	.230	.188	.250	.200	.164	.173	.140	.117	.101	.083	.069	.033	.027	.023	
9.0	.284	.225	.185	.245	.196	.162	.170	.137	.115	.099	.081	.068	.032	.027	.023	
10.0	.279	.221	.183	.240	.192	.160	.167	.135	.113	.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

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:119.91V I:0.2728A P:29.834W PF:0.9120 Freq:59.98Hz										
Lamp Flux:2739.3x1 lm										
NAME: WS36-085-BK 30W 30K					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	16.6	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	16.9	16.4	17.5	18.2	22.9	23.9	23.5	24.6	25.3
12H	15.8	16.9	16.5	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	20.3	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, 2739 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.5)
 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:0.2728A P:29.834W PF:0.9120 Freq:59.98Hz Lamp Flux:2739.3x1 lm		
NAME: WS36-085-BK 30W 30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

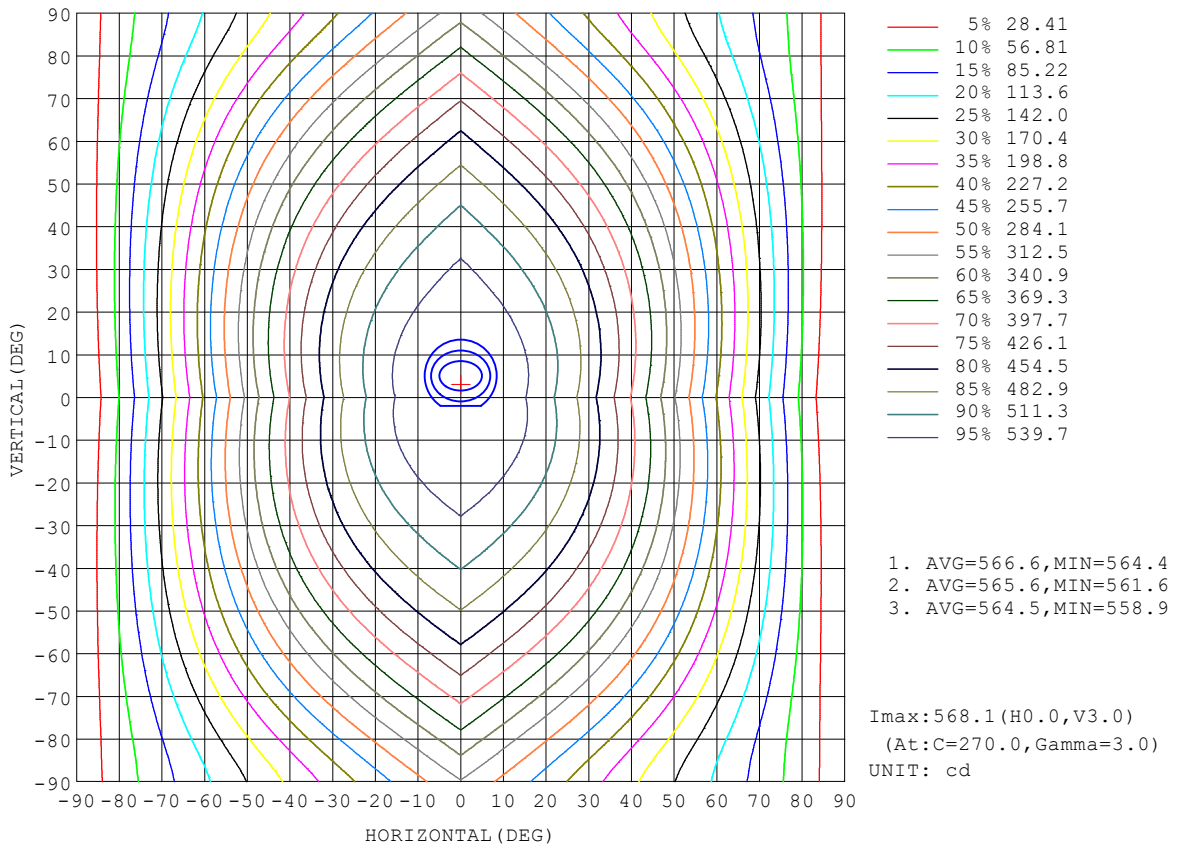
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	47	35	27	46	34	27	44	33	27	20
0.80	56	43	35	54	42	35	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	73	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

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:119.91V I:0.2728A P:29.834W PF:0.9120 Freq:59.98Hz Lamp Flux:2739.3x1 lm		
NAME: WS36-085-BK 30W 30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

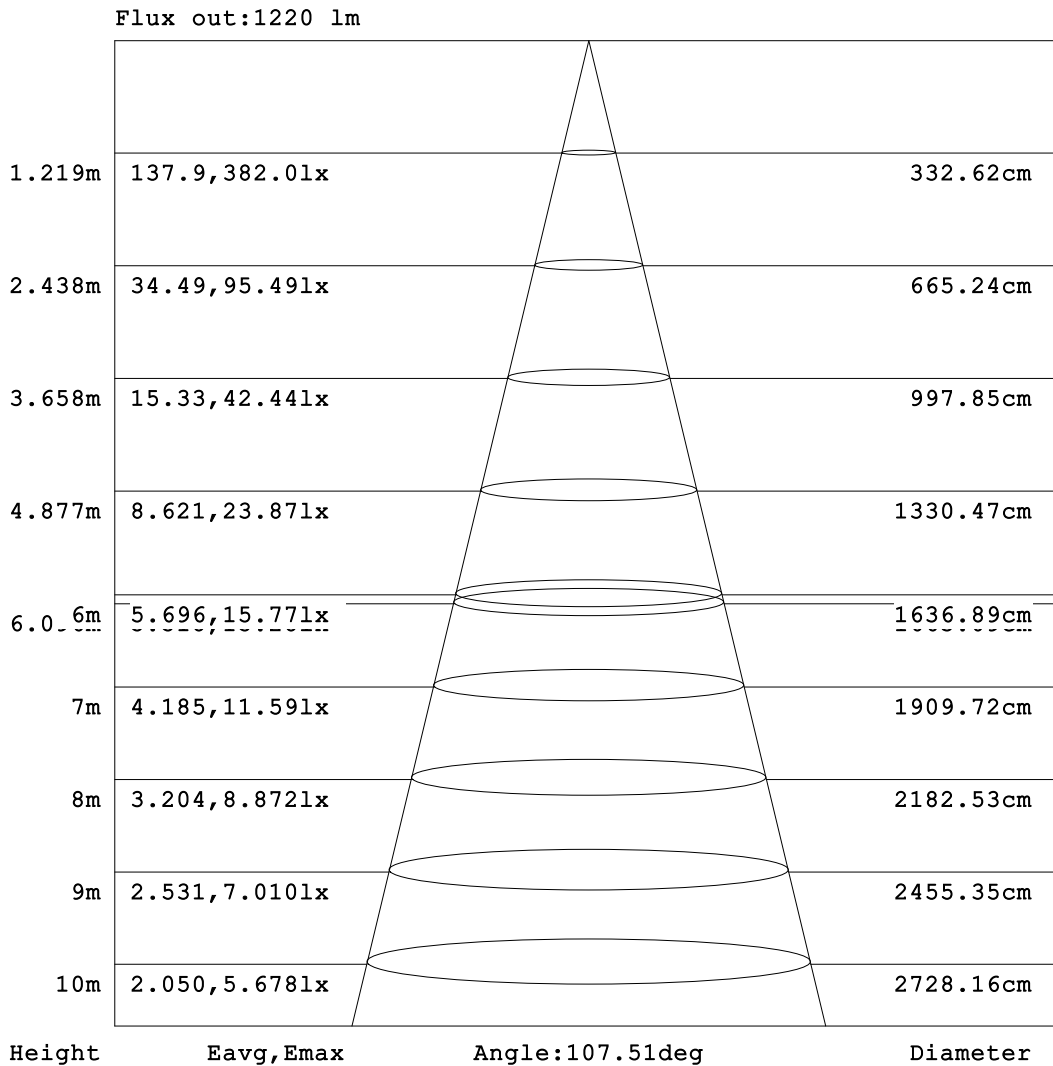


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:07 May 2026

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:0.2728A P:29.834W PF:0.9120 Freq:59.98Hz Lamp Flux:2739.3x1 lm		
NAME: WS36-085-BK 30W 30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:



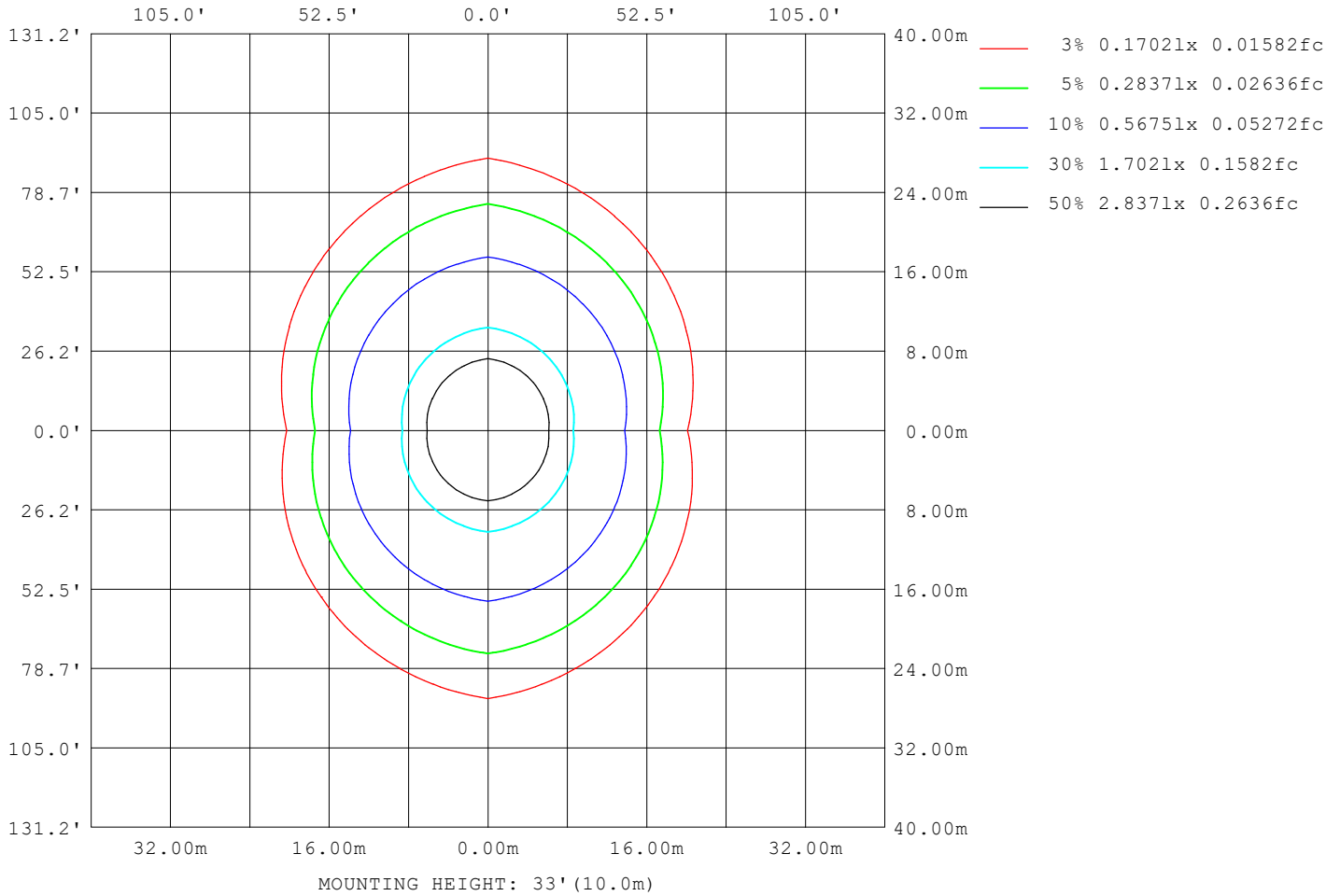
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.2728A P:29.834W PF:0.9120 Freq:59.98Hz Lamp Flux:2739.3x1 lm		
NAME: WS36-085-BK 30W 30K	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:0.2728A P:29.834W PF:0.9120 Freq:59.98Hz Lamp Flux:2739.3x1 lm		
NAME: WS36-085-BK 30W 30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

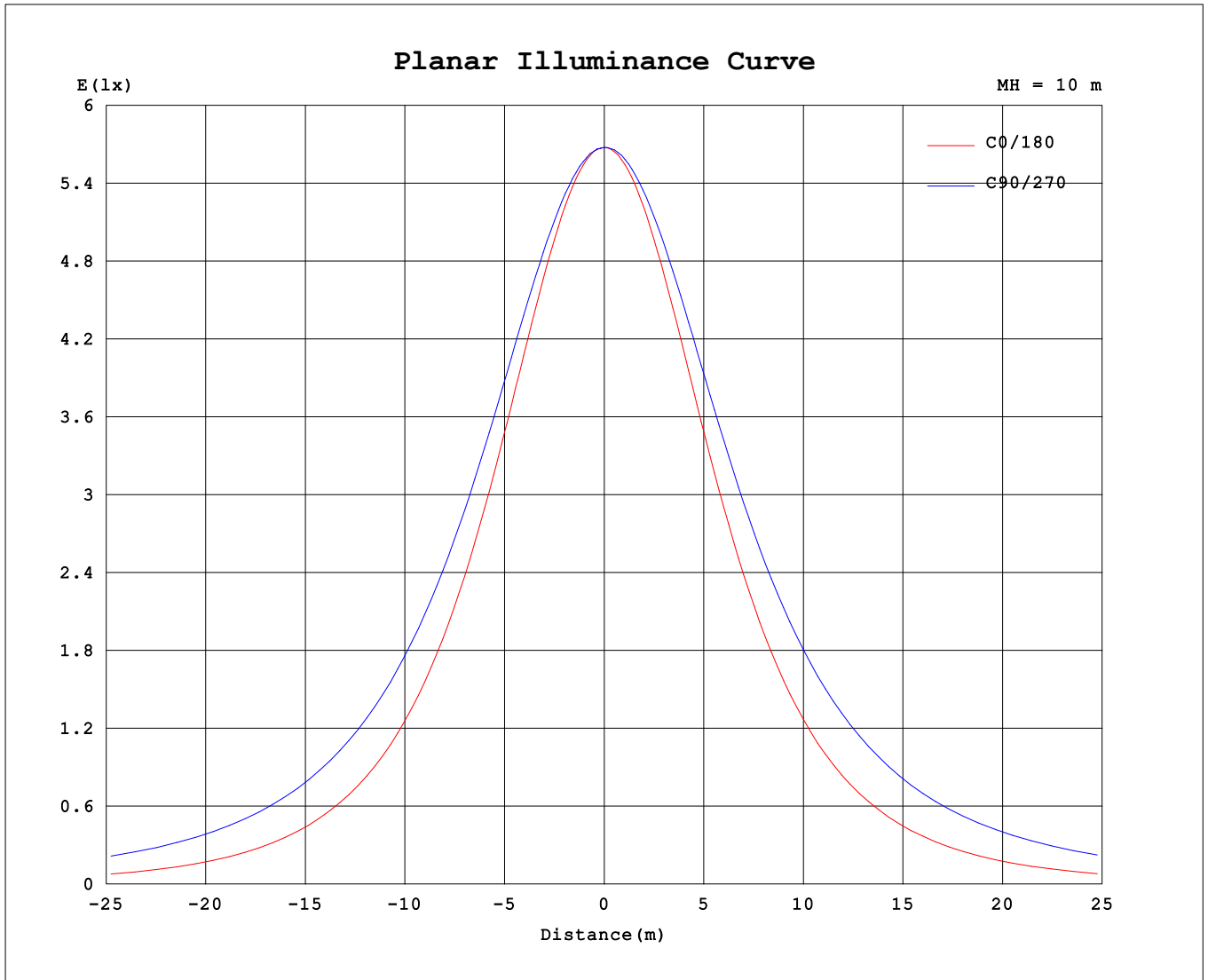
AvgL	cd/m2
L_0~180 (65) av	4305
L_0~180 (75) av	3599
L_0~180 (85) av	2490
L_90~270 (65) av	10304
L_90~270 (75) av	15162
L_90~270 (85) av	39604
L_45 (65) av	8059
L_45 (75) av	10835
L_45 (85) av	25704

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:0.2728A P:29.834W PF:0.9120 Freq:59.98Hz Lamp Flux:2739.3x1 lm		
NAME: WS36-085-BK 30W 30K	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	567	568	567	568															
5	565	566	565	568															
10	556	563	556	566															
15	541	559	541	563															
20	520	552	521	558															
25	495	545	496	552															
30	466	536	467	544															
35	432	525	434	535															
40	396	512	398	524															
45	356	498	359	511															
50	314	482	318	497															
55	270	465	275	481															
60	225	446	231	463															
65	179	427	185	444															
70	134	406	140	424															
75	89.4	383	97.0	402															
80	50.0	359	57.1	378															
85	19.2	335	24.2	355															
90	8.37	311	8.13	330															
95	9.56	272	8.92	290															
100	12.2	227	11.1	243															
105	16.1	179	14.6	197															
110	20.5	164	18.7	177															
115	25.1	157	23.0	167															
120	26.1	137	23.5	148															
125	28.0	118	23.8	119															
130	30.4	107	26.5	110															
135	32.9	96.7	28.7	104															
140	34.7	88.3	30.1	86.7															
145	35.7	80.0	31.7	80.6															
150	37.2	71.3	33.3	74.5															
155	38.6	65.1	34.7	65.5															
160	40.5	61.5	37.5	63.3															
165	48.4	58.0	46.0	59.0															
170	52.4	47.3	50.1	56.3															
175	55.8	34.7	53.7	47.5															
180	55.9	32.4	55.8	32.4															

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: