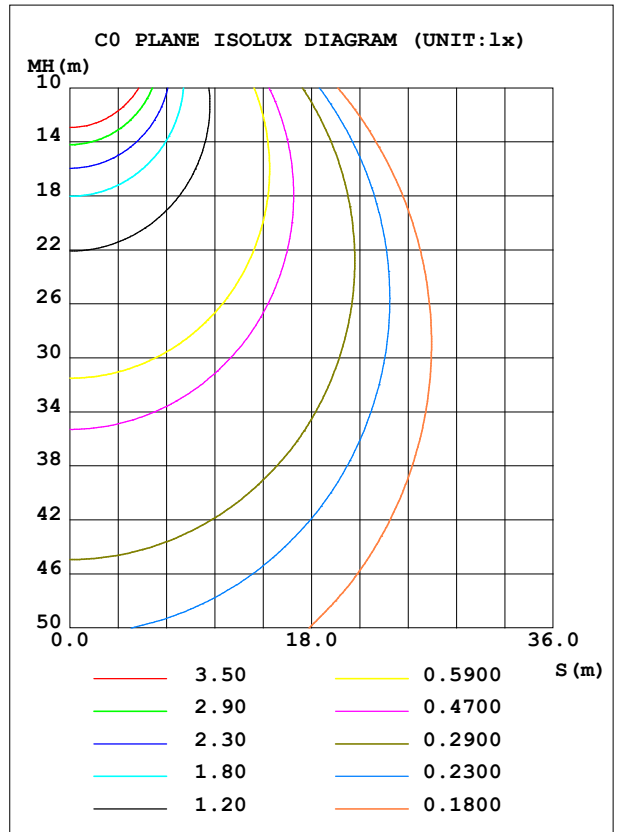
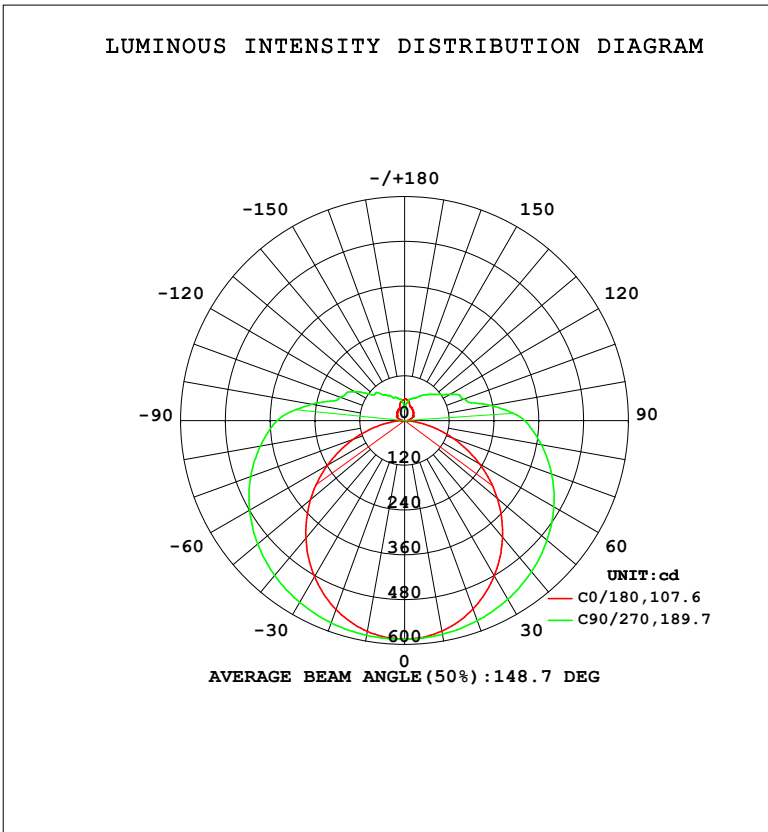


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.92V I:0.2725A P:29.822W PF:0.9126 Freq:59.98Hz Lamp Flux:2833.62x1 lm		
NAME: WS36-085-BK 30W 40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 95.02 lm/W
MODEL	4000K	I <sub>max</sub> (cd)	586.2	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)	2833.6	η UP, DN (C0-180)	10.0, 39.2	
NOMINAL FLUX (lm)	2833.62	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	10.4, 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	573.2	581.8	573.6	584.2				0- 10	55.56	55.56	1.96,1.96
20	536.5	570.5	538.5	576.8				10- 20	160.7	216.2	7.63,7.63
30	480.3	552.8	483.2	562.7				20- 30	248.8	465.1	16.4,16.4
40	408.4	528.9	411.8	541.6				30- 40	311.6	776.7	27.4,27.4
50	324.5	498.6	329.1	513.9				40- 50	344.2	1121	39.6,39.6
60	232.4	461.8	238.8	479.8				50- 60	345.1	1466	51.7,51.7
70	138.0	419.2	145.2	439.3				60- 70	316.6	1783	62.9,62.9
80	51.63	371.8	59.10	392.4				70- 80	265.9	2048	72.3,72.3
90	8.636	321.9	8.375	341.6				80- 90	208.9	2257	79.7,79.7
100	12.64	235.5	11.49	252.7				90-100	164.0	2421	85.4,85.4
110	21.21	170.0	19.37	183.5				100-110	115.2	2536	89.5,89.5
120	27.12	141.7	24.32	155.6				110-120	94.03	2631	92.8,92.8
130	31.56	110.5	27.40	107.7				120-130	69.17	2700	95.3,95.3
140	36.07	91.47	31.09	89.91				130-140	51.82	2751	97.1,97.1
150	38.71	73.91	34.40	77.31				140-150	37.20	2789	98.4,98.4
160	42.05	63.69	38.80	65.72				150-160	24.72	2813	99.3,99.3
170	54.35	48.99	51.91	58.39				160-170	15.36	2829	99.8,99.8
180	57.92	33.41	57.90	33.42				170-180	4.853	2834	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm		

Conical surface Flux(90deg): 946.71 lm

%lum = 33.4%

%lamp = 33.4%

Conical surface Flux(120deg): 1466 lm

%lum = 51.7%

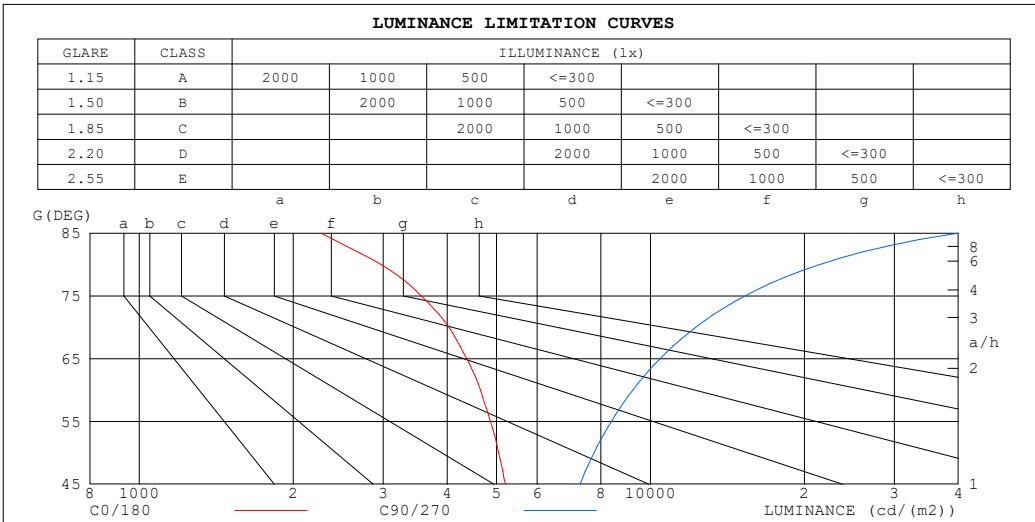
%lamp = 51.7%

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:119.92V I:0.2725A P:29.822W PF:0.9126 Freq:59.98Hz Lamp Flux:2833.62x1 lm		
NAME: WS36-085-BK 30W 40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2267	39834
80	2973	21410
75	3562	15307
70	4035	12258
65	4370	10439
60	4648	9235
55	4865	8383
50	5048	7757
45	5200	7276

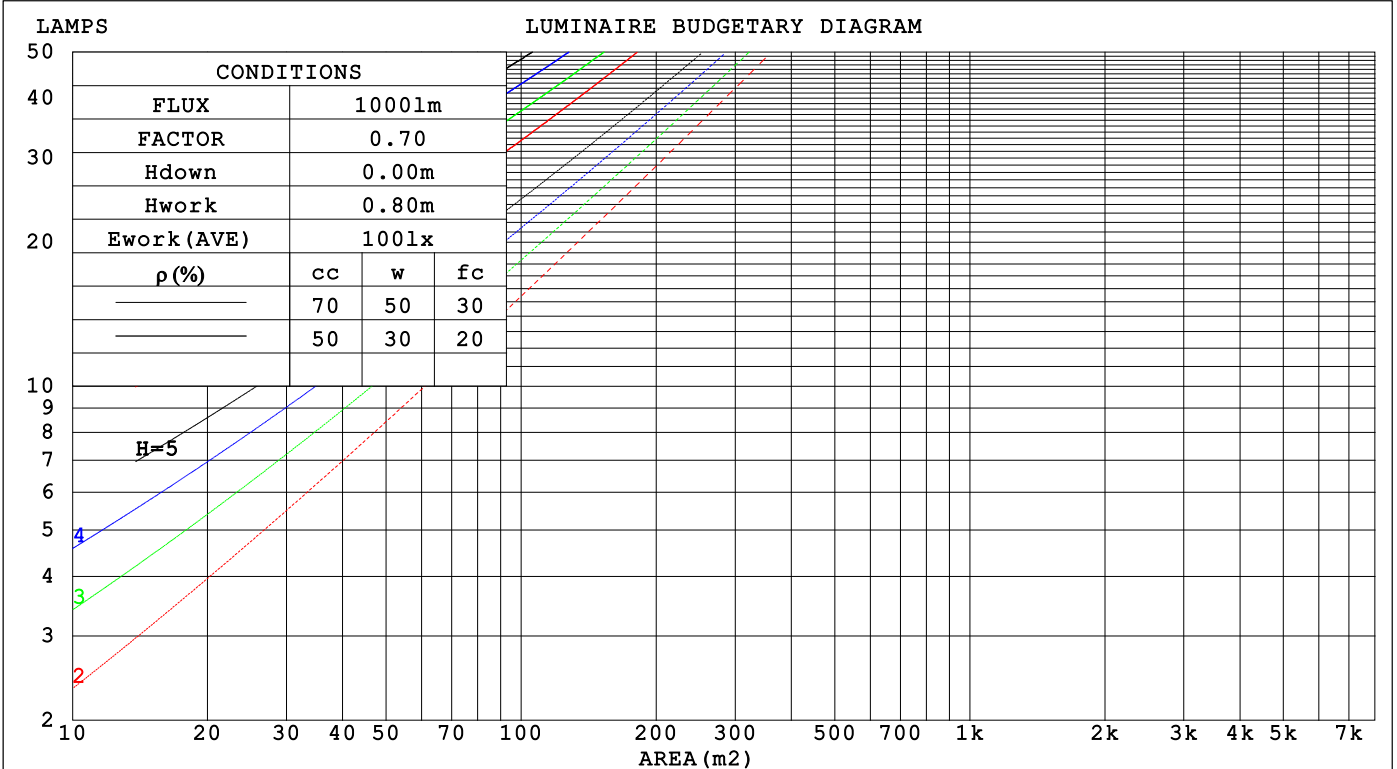
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3 °C  
 Operators: DAMIN  
 Test Date: 07 May 2026

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:119.92V I:0.2725A P:29.822W PF:0.9126 Freq:59.98Hz Lamp Flux:2833.62x1 lm		
NAME: WS36-085-BK 30W 40K	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	.55	.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	.30	.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:119.92V I:0.2725A P:29.822W PF:0.9126 Freq:59.98Hz Lamp Flux:2833.62x1 lm		
NAME: WS36-085-BK 30W 40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

ρ <sub>CC</sub>	80%			70%			50%			30%			10%			0
ρ <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ <sub>fc</sub>	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	.175	.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 <sub>CC</sub>	80%			70%			50%			30%			10%			0
ρ <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ <sub>fc</sub>	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.345	.345	.345	.295	.295	.295	.202	.202	.202	.116	.116	.116	.037	.037	.037	
1.0	.342	.312	.285	.292	.268	.245	.200	.184	.169	.115	.107	.099	.037	.034	.032	
2.0	.335	.289	.250	.287	.249	.216	.197	.172	.151	.113	.100	.088	.036	.032	.029	
3.0	.328	.273	.229	.281	.235	.198	.193	.163	.139	.111	.095	.082	.036	.031	.027	
4.0	.320	.260	.215	.274	.225	.186	.189	.157	.131	.109	.092	.078	.035	.030	.026	
5.0	.312	.250	.205	.268	.217	.178	.185	.151	.126	.107	.089	.075	.034	.029	.025	
6.0	.305	.243	.198	.262	.210	.172	.181	.147	.122	.105	.086	.072	.034	.028	.024	
7.0	.298	.236	.193	.256	.205	.168	.177	.143	.119	.103	.084	.071	.033	.028	.023	
8.0	.291	.230	.189	.251	.200	.165	.173	.140	.117	.101	.083	.070	.033	.027	.023	
9.0	.285	.226	.186	.245	.196	.162	.170	.138	.115	.099	.081	.069	.032	.027	.023	
10.0	.279	.222	.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

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:119.92V I:0.2725A P:29.822W PF:0.9126 Freq:59.98Hz										
Lamp Flux:2833.62x1 lm										
NAME: WS36-085-BK 30W 40K					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	19.7	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	17.3	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	20.3	21.2	23.4	24.1	24.1	24.8	25.7
8H	19.4	20.0	20.1	20.7	21.6	24.7	25.4	25.5	26.1	26.9
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, 2834 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:119.92V I:0.2725A P:29.822W PF:0.9126 Freq:59.98Hz Lamp Flux:2833.62x1 lm		
NAME: WS36-085-BK 30W 40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

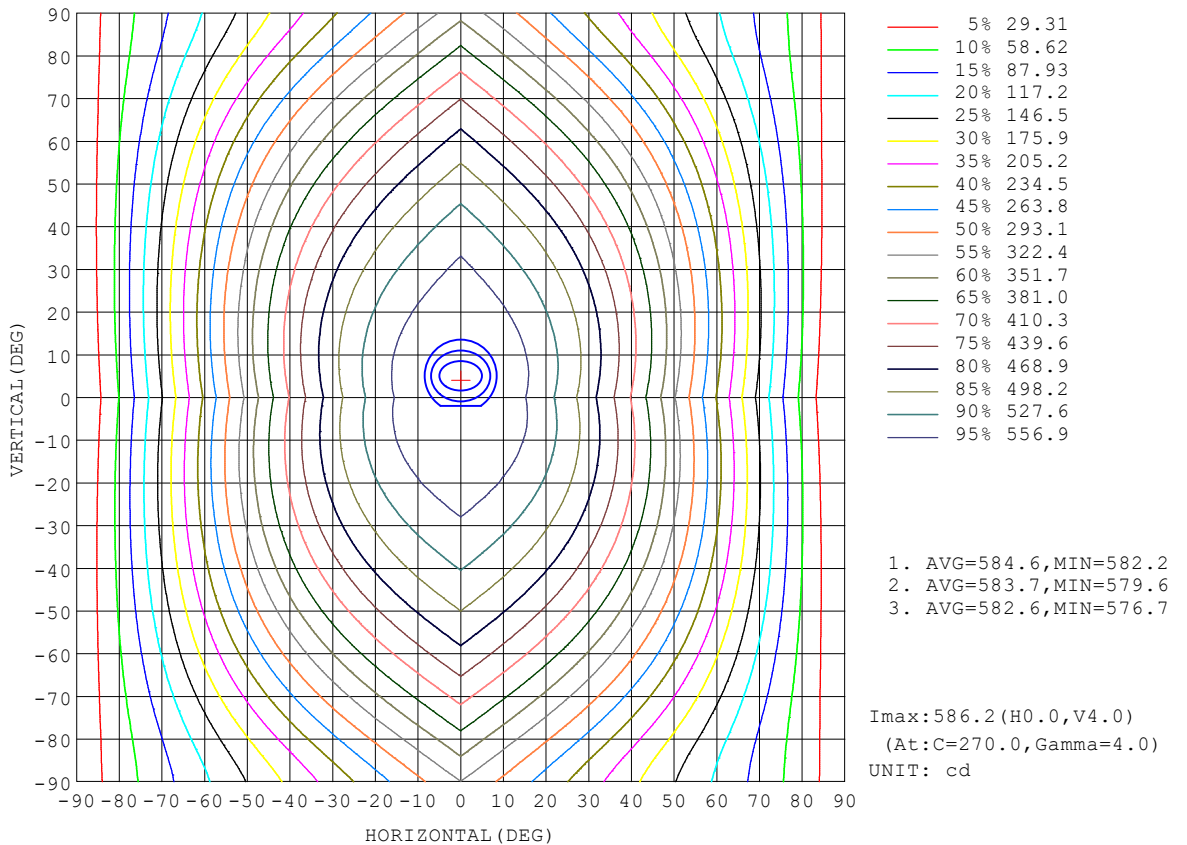
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	47	35	27	46	34	27	44	33	27	20
0.80	56	43	35	54	42	35	51	41	34	26
1.00	64	51	42	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	77	69	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:119.92V I:0.2725A P:29.822W PF:0.9126 Freq:59.98Hz Lamp Flux:2833.62x1 lm		
NAME: WS36-085-BK 30W 40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

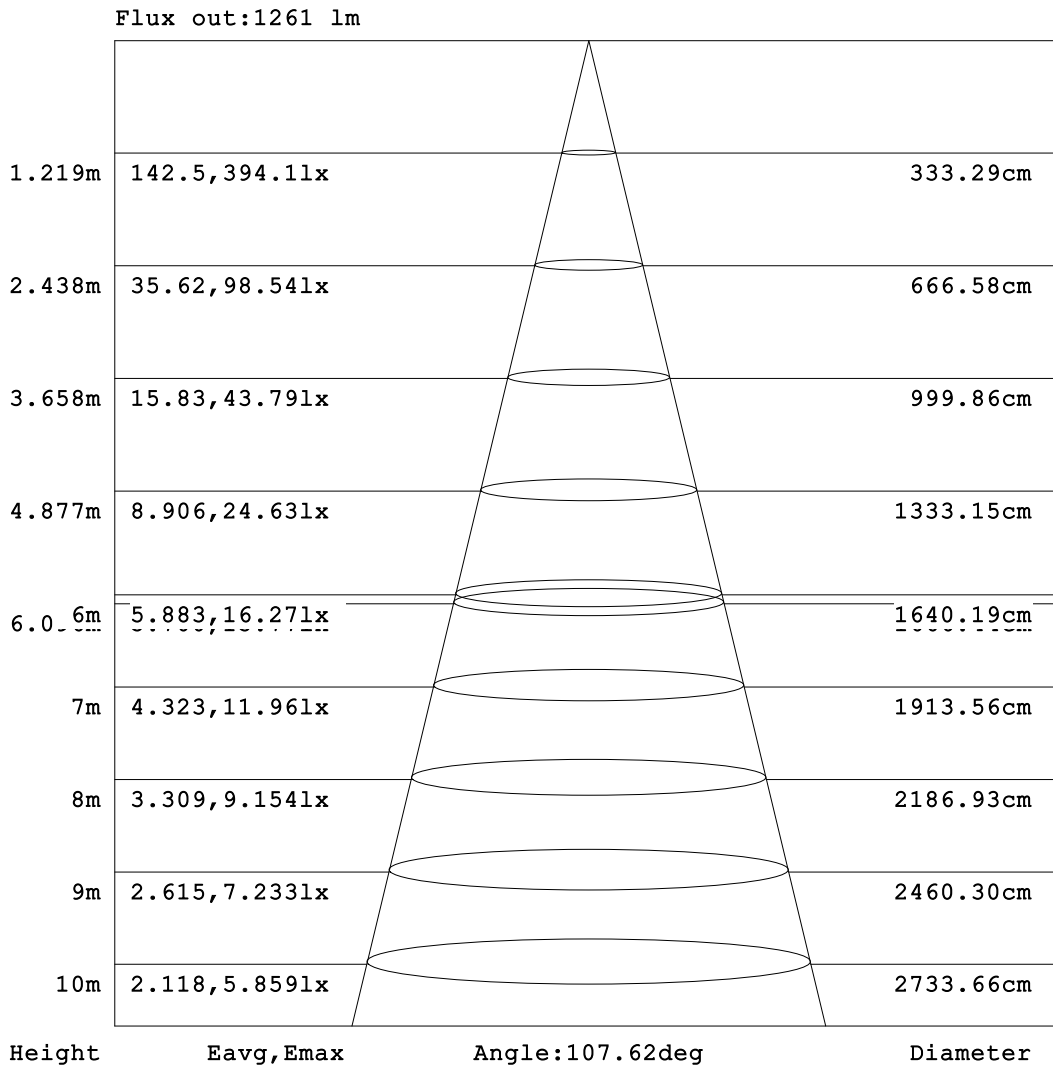


C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3 °C  
Operators:DAMIN  
Test Date:07 May 2026

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:119.92V I:0.2725A P:29.822W PF:0.9126 Freq:59.98Hz Lamp Flux:2833.62x1 lm		
NAME: WS36-085-BK 30W 40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:



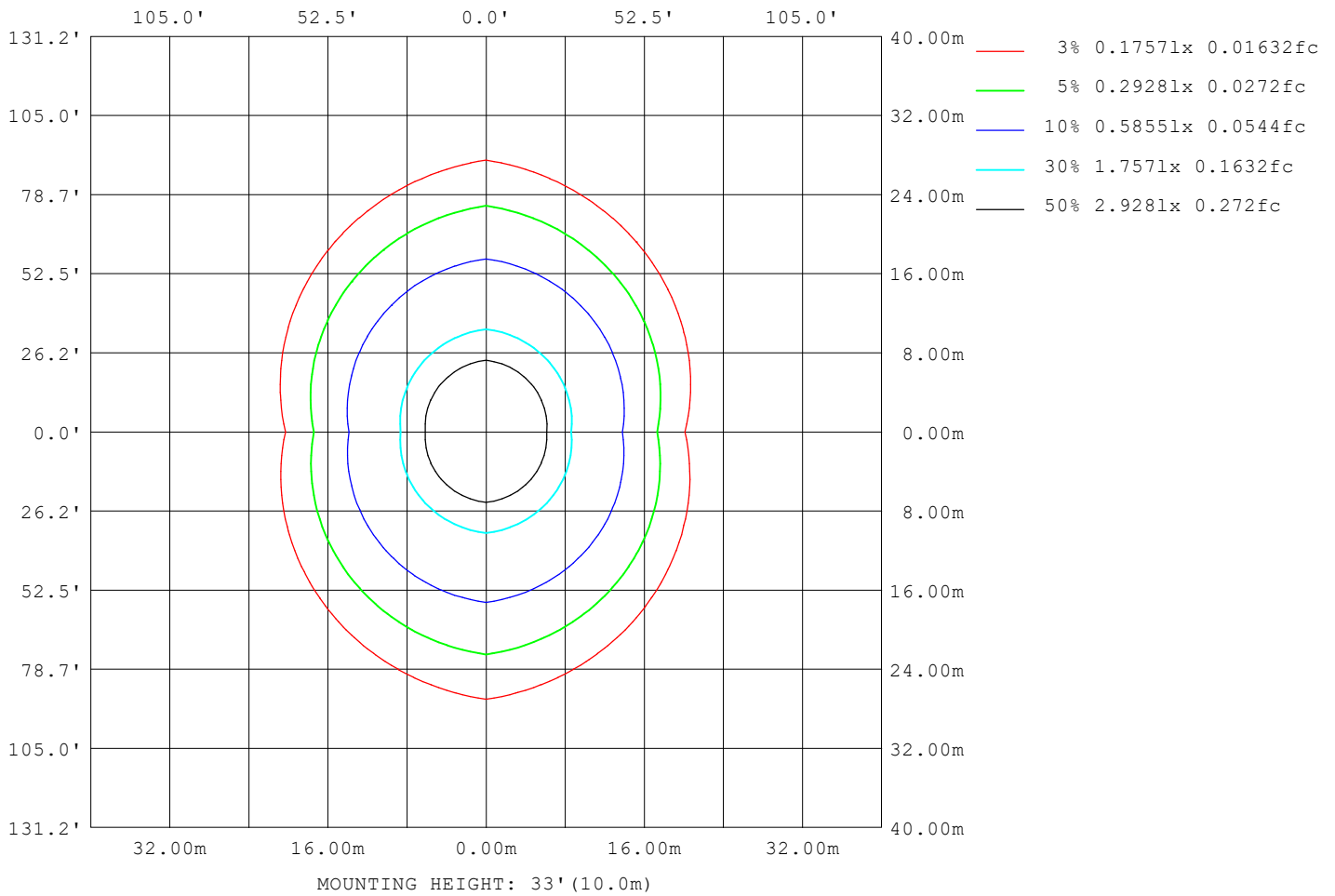
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:119.92V I:0.2725A P:29.822W PF:0.9126 Freq:59.98Hz Lamp Flux:2833.62x1 lm		
NAME: WS36-085-BK 30W 40K	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:119.92V I:0.2725A P:29.822W PF:0.9126 Freq:59.98Hz Lamp Flux:2833.62x1 lm		
NAME: WS36-085-BK 30W 40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

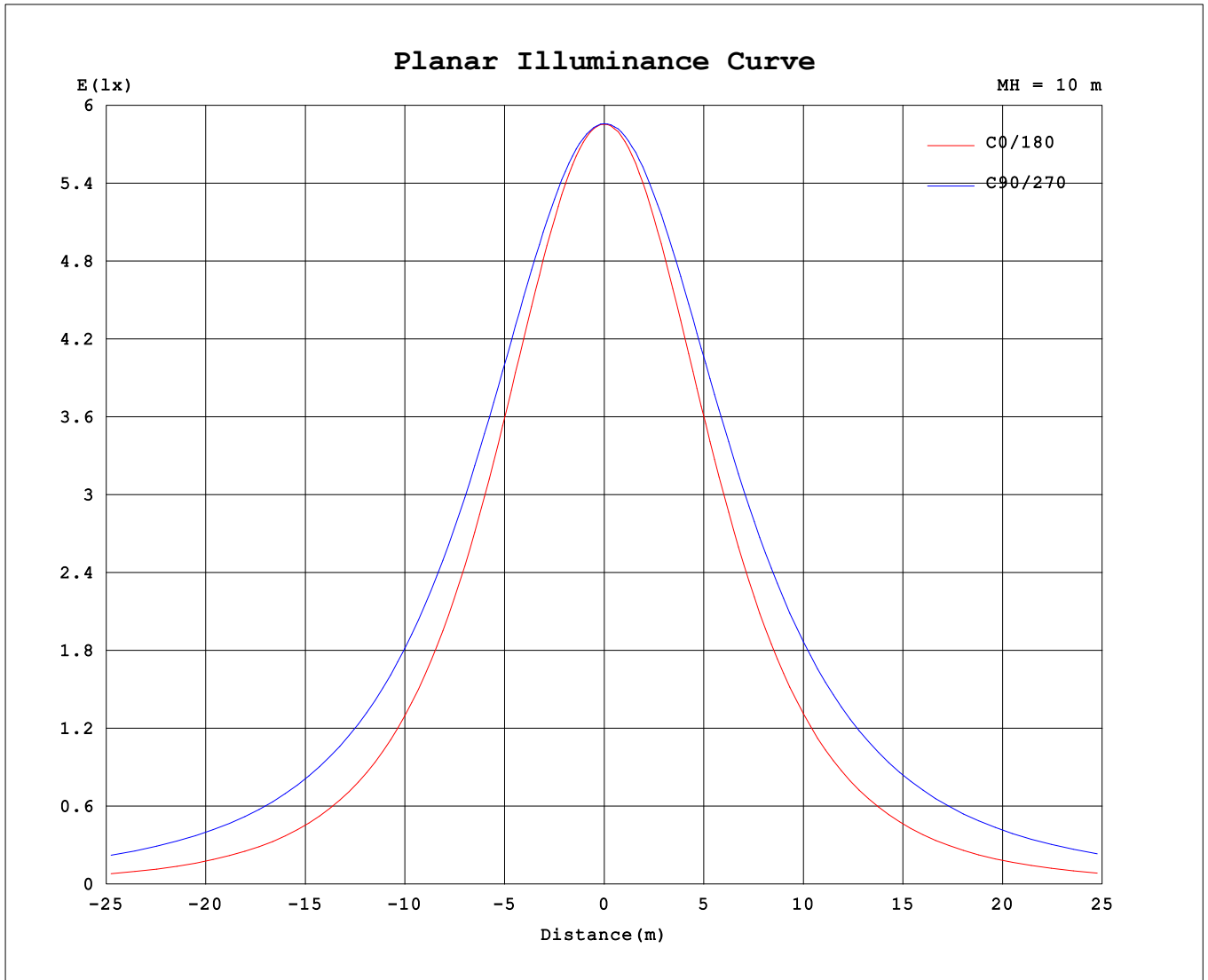
AvgL	cd/m2
L_0~180 (65) av	4450
L_0~180 (75) av	3722
L_0~180 (85) av	2572
L_90~270 (65) av	10666
L_90~270 (75) av	15699
L_90~270 (85) av	41024
L_45 (65) av	8340
L_45 (75) av	11218
L_45 (85) av	26624

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:119.92V I:0.2725A P:29.822W PF:0.9126 Freq:59.98Hz Lamp Flux:2833.62x1 lm		
NAME: WS36-085-BK 30W 40K	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	586	586	586	586															
5	583	585	583	586															
10	573	582	574	584															
15	558	577	559	581															
20	537	570	538	577															
25	511	562	513	570															
30	480	553	483	563															
35	446	542	449	553															
40	408	529	412	542															
45	368	515	372	528															
50	325	499	329	514															
55	279	481	285	497															
60	232	462	239	480															
65	185	441	191	460															
70	138	419	145	439															
75	92.2	396	100	416															
80	51.6	372	59.1	392															
85	19.8	347	25.1	368															
90	8.64	322	8.38	342															
95	9.90	282	9.19	301															
100	12.6	236	11.5	253															
105	16.6	185	15.1	204															
110	21.2	170	19.4	183															
115	26.0	163	23.8	174															
120	27.1	142	24.3	156															
125	29.1	122	24.6	129															
130	31.6	111	27.4	108															
135	34.2	100	29.7	107															
140	36.1	91.5	31.1	89.9															
145	37.1	83.0	32.8	83.7															
150	38.7	73.9	34.4	77.3															
155	40.1	67.4	35.8	67.9															
160	42.1	63.7	38.8	65.7															
165	50.2	60.1	47.6	61.2															
170	54.3	49.0	51.9	58.4															
175	57.9	35.8	55.6	49.2															
180	57.9	33.4	57.9	33.4															

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: