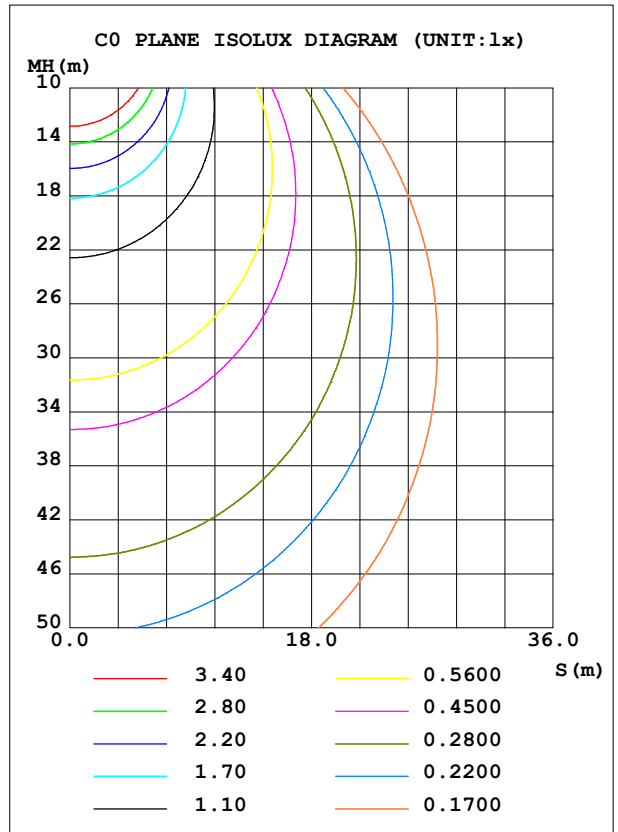
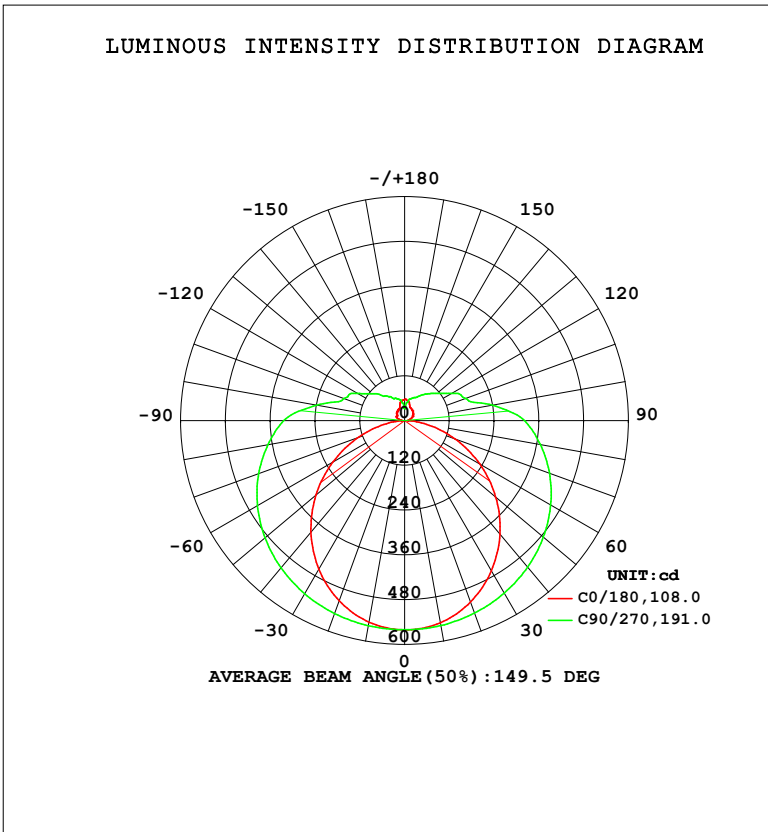


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.94V I:0.2739A P:29.776W PF:0.9063 Freq:59.98Hz Lamp Flux:2744.67x1 lm		
NAME: WS36-085-BN 30W 27K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 92.18 lm/W
MODEL	2700K	I <sub>max</sub> (cd)	561.0	S/MH (C0/180)	1.22	
NOMINAL POWER (W)	30	LOR (%)	100.0	S/MH (C90/270)	1.44	
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	2744.7	η UP, DN (C0-180)	10.4, 39.8	
NOMINAL FLUX (lm)	2744.67	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	10.3, 39.5	
LAMPS INSIDE	1	η up (%)	20.7	CIBSE SHR NOM	1.50	
TEST VOLTAGE (V)	120	η down (%)	79.3	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:

$\gamma$	C0	C90	C180	C270				$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	550.3	557.7	548.4	558.1				0- 10	53.19	53.19	1.94,1.94
20	517.1	548.7	513.6	550.1				10- 20	153.9	207.1	7.55,7.55
30	464.6	534.0	459.9	535.9				20- 30	238.6	445.7	16.2,16.2
40	397.7	512.9	390.8	515.1				30- 40	299.1	744.8	27.1,27.1
50	318.8	485.3	310.3	488.4				40- 50	330.9	1076	39.2,39.2
60	232.8	452.2	221.9	455.3				50- 60	332.4	1408	51.3,51.3
70	143.7	413.4	131.8	416.0				60- 70	305.8	1714	62.4,62.4
80	60.40	369.3	50.19	371.7				70- 80	258.0	1972	71.8,71.8
90	9.474	321.5	8.456	324.0				80- 90	203.7	2176	79.3,79.3
100	11.97	239.5	12.68	239.6				90-100	160.3	2336	85.1,85.1
110	19.60	174.5	21.20	173.9				100-110	113.7	2450	89.3,89.3
120	25.21	147.2	25.10	146.0				110-120	92.73	2542	92.6,92.6
130	29.86	114.2	28.10	113.2				120-130	69.51	2612	95.2,95.2
140	34.13	93.91	31.58	85.58				130-140	51.64	2664	97,97
150	37.02	75.67	34.55	73.34				140-150	36.73	2700	98.4,98.4
160	41.34	64.76	38.99	63.15				150-160	24.37	2725	99.3,99.3
170	53.34	51.09	52.17	55.33				160-170	15.25	2740	99.8,99.8
180	56.82	33.02	57.07	33.05				170-180	4.795	2745	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm		

Conical surface Flux(90deg): 908.17 lm

%lum = 33.1%  
 %lamp = 33.1%

Conical surface Flux(120deg): 1408.1 lm

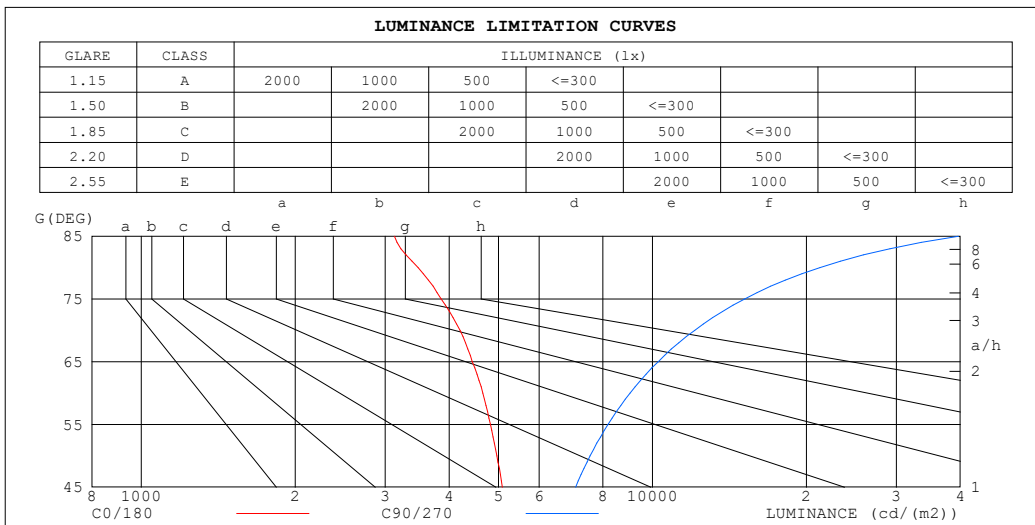
%lum = 51.3%  
 %lamp = 51.3%

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:20 April 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:119.94V I:0.2739A P:29.776W PF:0.9063 Freq:59.98Hz Lamp Flux:2744.67x1 lm		
NAME: WS36-085-BN 30W 27K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	3127	39693
80	3478	21268
75	3861	15145
70	4203	12087
65	4443	10260
60	4656	9045
55	4820	8184
50	4960	7549
45	5082	7069

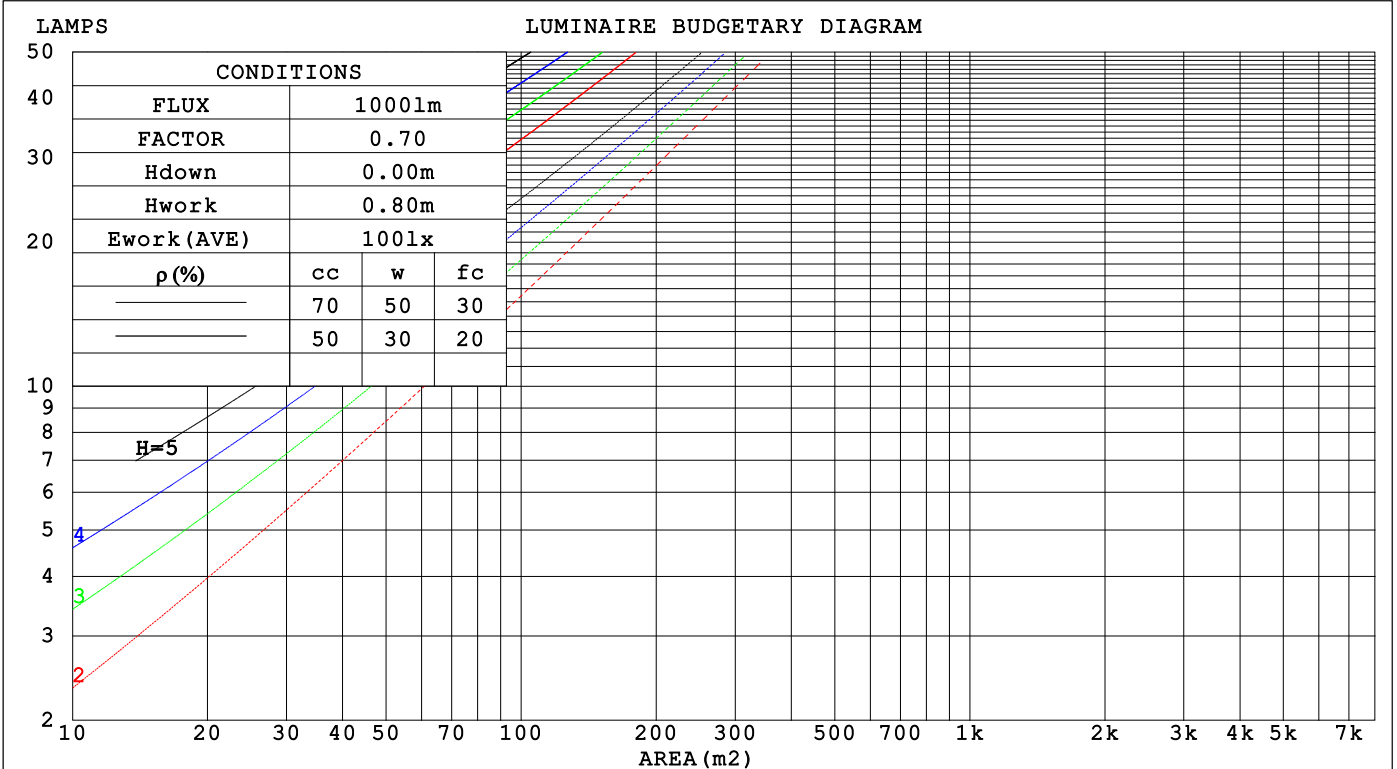
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3 °C  
 Operators: DAMIN  
 Test Date: 20 April 2026

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:119.94V I:0.2739A P:29.776W PF:0.9063 Freq:59.98Hz Lamp Flux:2744.67x1 lm		
NAME: WS36-085-BN 30W 27K	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	.48
3.0	.70	.61	.54	.67	.59	.52	.61	.54	.49	.56	.50	.45	.50	.46	.42	.39
4.0	.62	.52	.45	.59	.50	.44	.54	.47	.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	.36	.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	.25	.21	.18
9.0	.37	.28	.23	.35	.27	.22	.32	.26	.21	.30	.24	.20	.28	.22	.18	.16
10.0	.34	.26	.20	.32	.25	.20	.30	.23	.19	.28	.22	.18	.26	.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:119.94V I:0.2739A P:29.776W PF:0.9063 Freq:59.98Hz Lamp Flux:2744.67x1 lm		
NAME: WS36-085-BN 30W 27K	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	.385	.219	.069	.371	.212	.067	.346	.198	.063	.323	.186	.060	.301	.174	.056	
2.0	.333	.182	.056	.321	.177	.054	.298	.165	.051	.276	.155	.049	.257	.145	.046	
3.0	.296	.157	.047	.284	.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	.087	.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	

$\rho_{CC}$	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	.348	.348	.348	.298	.298	.298	.203	.203	.203	.117	.117	.117	.037	.037	.037	
1.0	.345	.315	.288	.295	.270	.248	.202	.186	.171	.116	.108	.100	.037	.035	.032	
2.0	.338	.292	.253	.290	.251	.219	.198	.174	.153	.114	.101	.090	.037	.033	.029	
3.0	.331	.276	.232	.283	.238	.201	.195	.165	.141	.112	.096	.083	.036	.031	.027	
4.0	.323	.263	.218	.277	.227	.189	.191	.159	.133	.110	.093	.079	.035	.030	.026	
5.0	.315	.254	.208	.271	.219	.181	.186	.153	.128	.108	.090	.076	.035	.029	.025	
6.0	.308	.246	.201	.265	.213	.175	.183	.149	.124	.106	.088	.074	.034	.029	.024	
7.0	.301	.239	.196	.259	.207	.171	.179	.145	.121	.104	.086	.072	.034	.028	.024	
8.0	.294	.234	.192	.253	.203	.167	.175	.142	.119	.102	.084	.071	.033	.028	.023	
9.0	.288	.229	.189	.248	.199	.165	.172	.140	.117	.100	.082	.070	.032	.027	.023	
10.0	.282	.225	.186	.243	.195	.163	.169	.137	.116	.098	.081	.069	.032	.027	.023	

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3 °C  
 Operators:DAMIN  
 Test Date:20 April 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:119.94V I:0.2739A P:29.776W PF:0.9063 Freq:59.98Hz Lamp Flux:2744.67x1 lm		
NAME: WS36-085-BN 30W 27K	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	18.4	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	18.0	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	19.7	20.6	25.5	26.3	26.2	27.0	27.8
8H 4H	18.3	19.0	18.9	19.7	20.5	21.3	22.1	22.0	22.8	23.6
6H	19.3	20.0	20.0	20.7	21.5	23.6	24.3	24.3	25.0	25.8
8H	19.8	20.4	20.5	21.1	22.0	24.9	25.5	25.7	26.3	27.1
12H	20.2	20.7	20.9	21.4	22.3	26.5	27.0	27.3	27.8	28.7
12H 4H	18.6	19.3	19.3	20.0	20.9	21.3	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, 2745 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:20 April 2026	Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:119.94V I:0.2739A P:29.776W PF:0.9063 Freq:59.98Hz Lamp Flux:2744.67x1 lm		
NAME: WS36-085-BN 30W 27K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

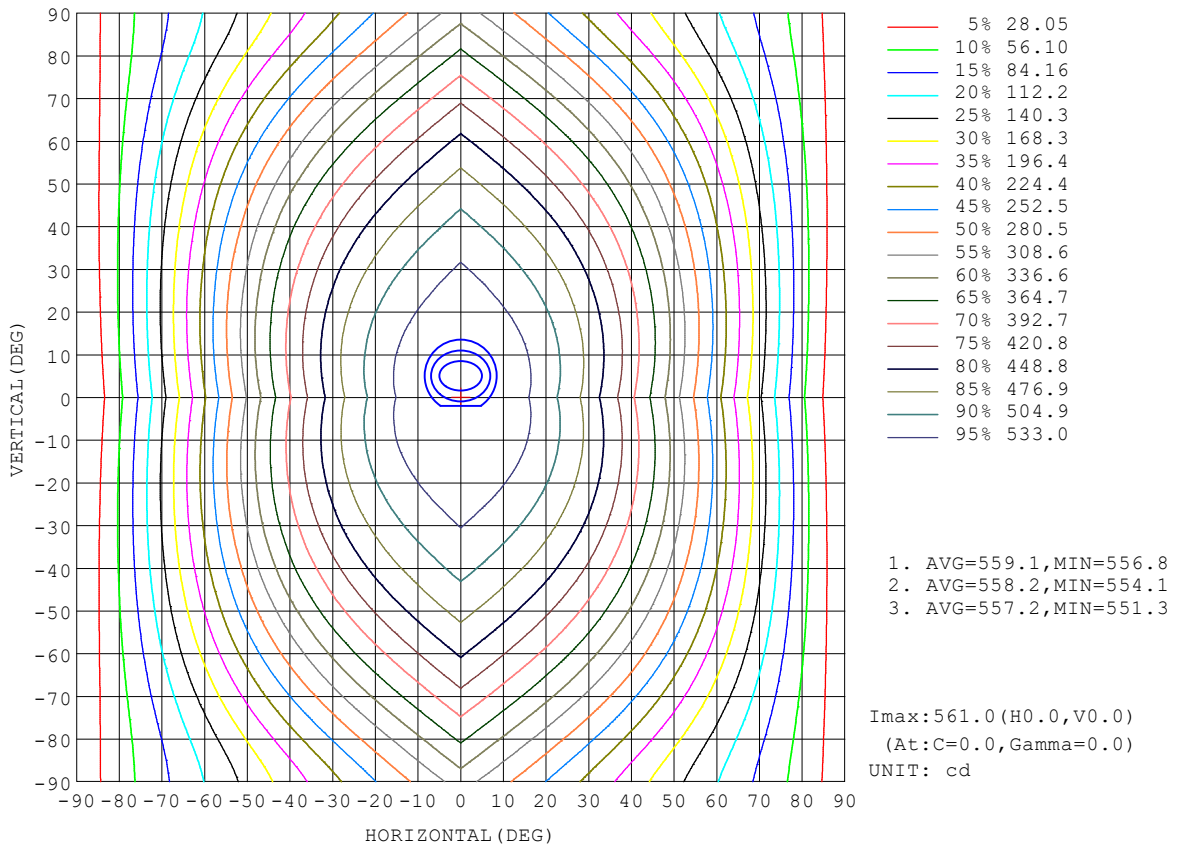
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	47	34	27	46	34	27	44	33	26	20
0.80	56	43	35	54	42	34	51	40	33	25
1.00	64	51	42	62	50	42	58	50	40	31
1.25	71	58	49	68	56	48	63	54	47	36
1.50	76	63	55	73	62	54	68	58	51	40
2.00	83	72	64	80	70	62	74	65	59	47
2.50	88	77	69	84	75	67	77	70	64	50
3.00	91	82	74	88	79	72	80	74	68	54
4.00	96	88	81	92	85	79	84	79	74	58
5.00	99	92	86	95	89	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

$\gamma$  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:119.94V I:0.2739A P:29.776W PF:0.9063 Freq:59.98Hz Lamp Flux:2744.67x1 lm		
NAME: WS36-085-BN 30W 27K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

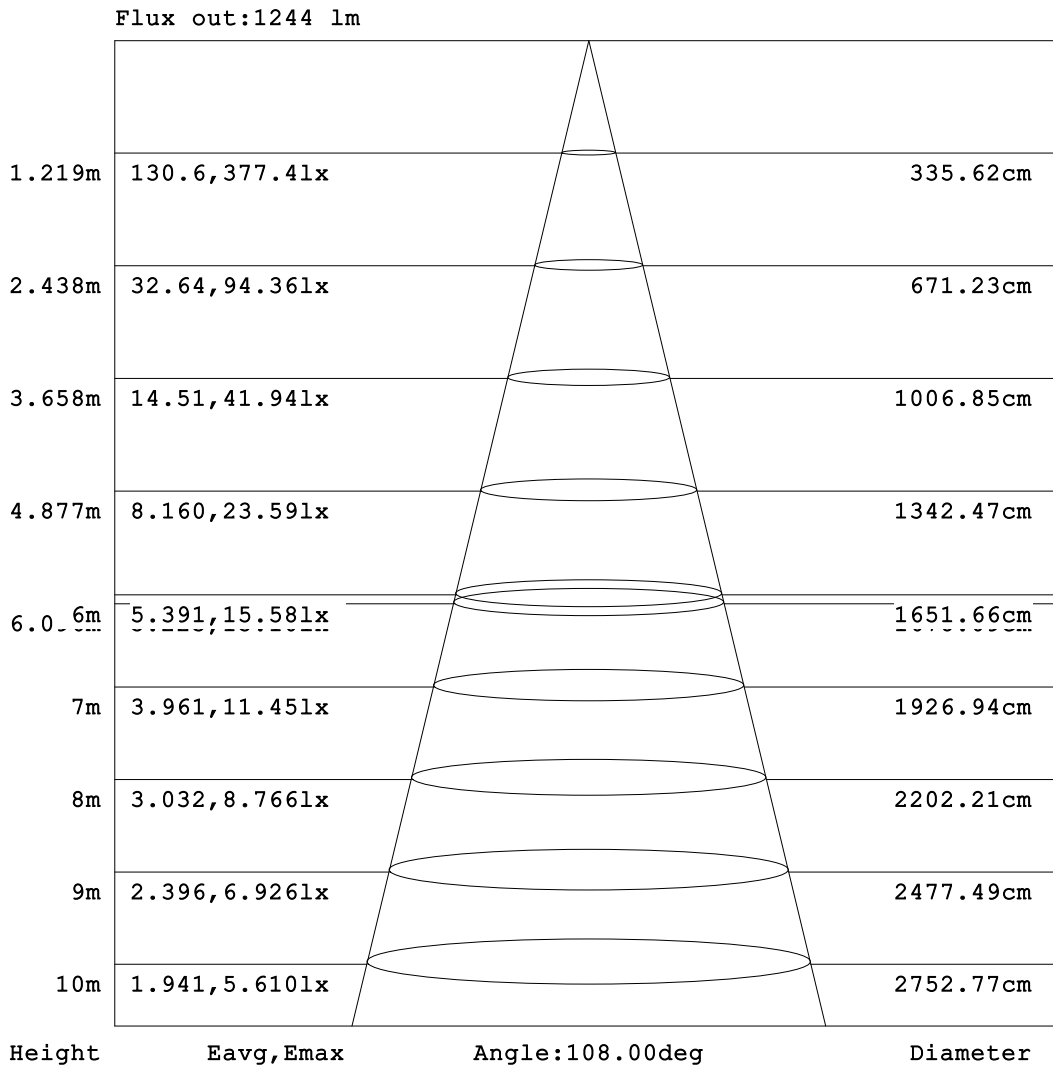


C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3 °C  
Operators:DAMIN  
Test Date:20 April 2026

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:119.94V I:0.2739A P:29.776W PF:0.9063 Freq:59.98Hz Lamp Flux:2744.67x1 lm		
NAME: WS36-085-BN 30W 27K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:



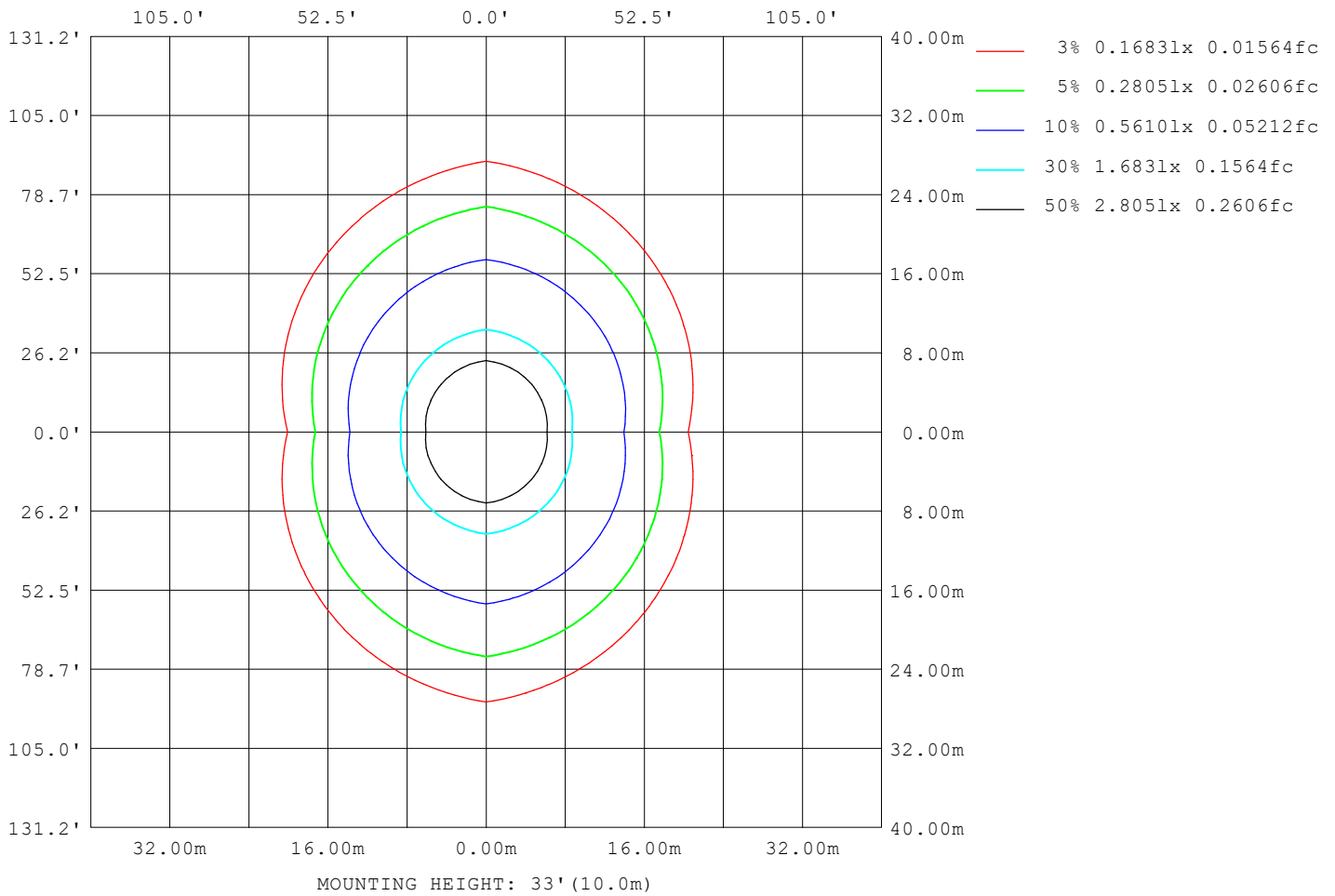
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:119.94V I:0.2739A P:29.776W PF:0.9063 Freq:59.98Hz Lamp Flux:2744.67x1 lm		
NAME: WS36-085-BN 30W 27K	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:119.94V I:0.2739A P:29.776W PF:0.9063 Freq:59.98Hz Lamp Flux:2744.67x1 lm		
NAME: WS36-085-BN 30W 27K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

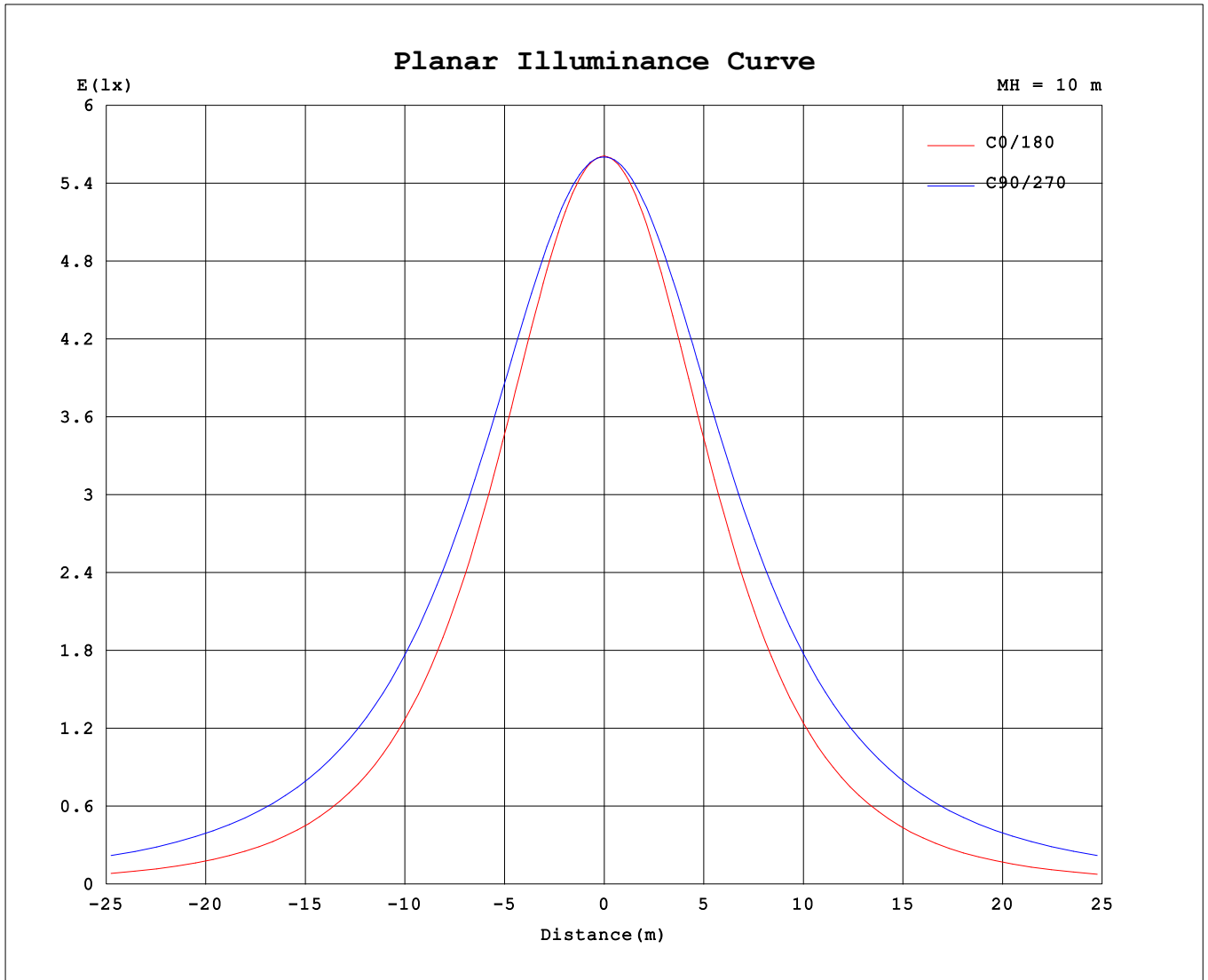
AvgL	cd/m2
L_0~180 (65) av	4308
L_0~180 (75) av	3651
L_0~180 (85) av	2700
L_90~270 (65) av	10291
L_90~270 (75) av	15193
L_90~270 (85) av	39845
L_45 (65) av	8039
L_45 (75) av	10852
L_45 (85) av	25889

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:119.94V I:0.2739A P:29.776W PF:0.9063 Freq:59.98Hz Lamp Flux:2744.67x1 lm		
NAME: WS36-085-BN 30W 27K	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	561	560	561	560															
5	559	560	557	560															
10	550	558	548	558															
15	537	554	534	555															
20	517	549	514	550															
25	493	542	489	544															
30	465	534	460	536															
35	433	524	427	526															
40	398	513	391	515															
45	359	500	351	503															
50	319	485	310	488															
55	276	469	267	473															
60	233	452	222	455															
65	188	434	176	436															
70	144	413	132	416															
75	99.9	392	89.0	394															
80	60.4	369	50.2	372															
85	27.3	346	19.8	349															
90	9.47	321	8.46	324															
95	9.63	284	9.61	286															
100	12.0	240	12.7	240															
105	15.5	192	16.7	194															
110	19.6	174	21.2	174															
115	24.0	166	25.0	165															
120	25.2	147	25.1	146															
125	27.3	128	25.5	126															
130	29.9	114	28.1	113															
135	32.3	103	30.5	101															
140	34.1	93.9	31.6	85.6															
145	35.4	84.8	33.1	79.9															
150	37.0	75.7	34.5	73.3															
155	38.5	68.7	35.8	65.4															
160	41.3	64.8	39.0	63.2															
165	49.9	60.6	48.3	59.1															
170	53.3	51.1	52.2	55.3															
175	56.9	38.2	55.8	46.4															
180	56.8	33.0	57.1	33.1															

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: