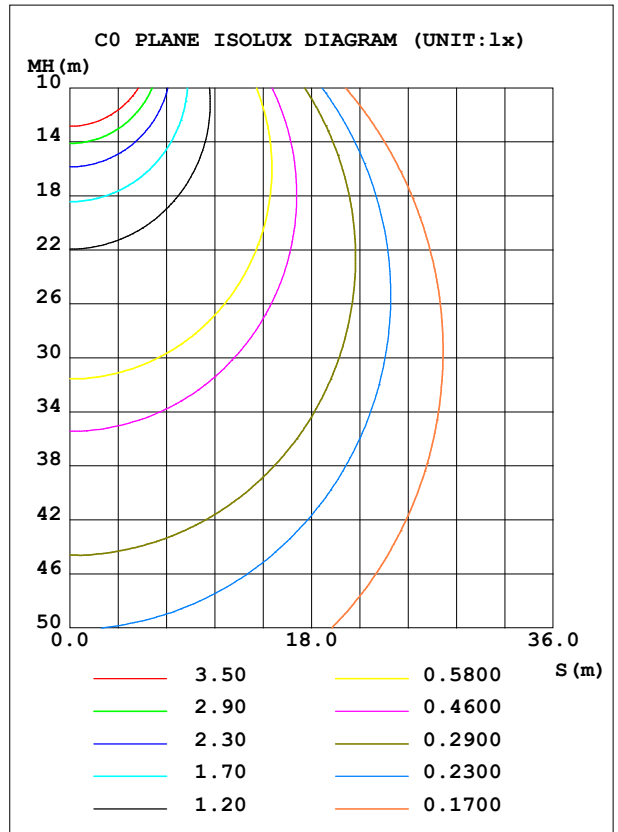
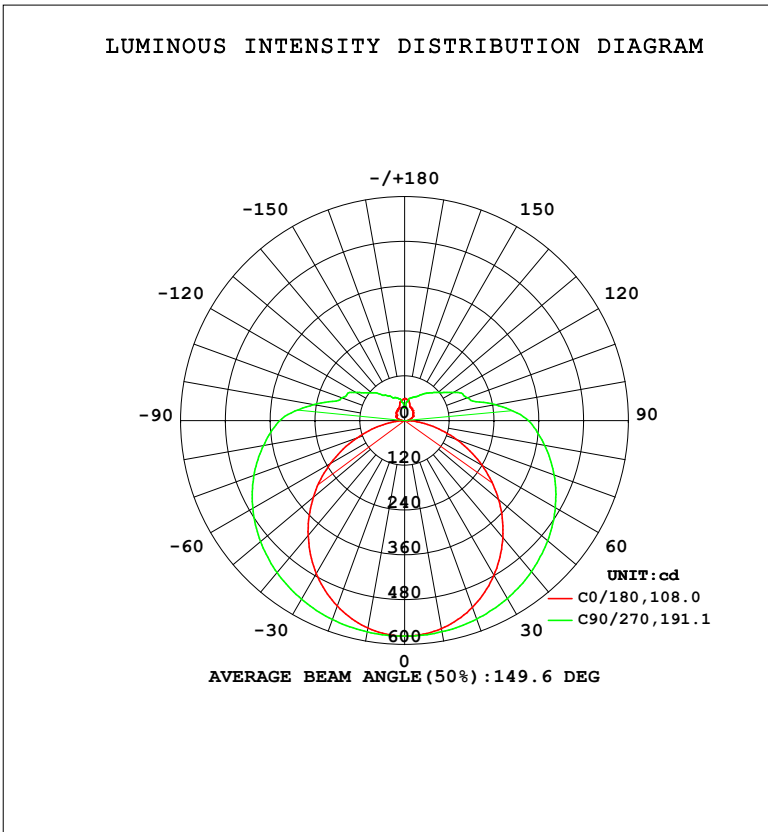


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.94V I:0.2723A P:29.677W PF:0.9087 Freq:59.98Hz Lamp Flux:2830.81x1 lm		
NAME: WS36-085-BN 30W 30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 95.39 lm/W
MODEL	3000K	I <sub>max</sub> (cd)	577.8	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)	2830.8	η UP, DN (C0-180)	10.4, 39.8	
NOMINAL FLUX (lm)	2830.81	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	10.3, 39.5	
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:

$\gamma$	C0	C90	C180	C270				$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	566.3	574.4	564.7	575.3				0- 10	54.78	54.78	1.94,1.94
20	532.1	565.8	528.8	567.3				10- 20	158.5	213.3	7.54,7.54
30	478.5	550.5	473.3	552.6				20- 30	245.8	459.1	16.2,16.2
40	409.5	528.5	402.3	531.5				30- 40	308.3	767.4	27.1,27.1
50	328.6	500.4	319.5	504.2				40- 50	341.1	1109	39.2,39.2
60	239.7	466.6	228.7	470.0				50- 60	342.8	1451	51.3,51.3
70	148.0	426.4	135.8	429.6				60- 70	315.4	1767	62.4,62.4
80	62.29	380.9	51.74	383.7				70- 80	266.2	2033	71.8,71.8
90	9.902	331.9	8.707	334.5				80- 90	210.3	2243	79.2,79.2
100	12.49	247.1	13.07	247.4				90-100	165.5	2409	85.1,85.1
110	20.32	179.9	21.87	179.5				100-110	117.4	2526	89.2,89.2
120	26.15	151.8	25.98	151.9				110-120	95.79	2622	92.6,92.6
130	30.79	117.7	29.13	116.8				120-130	71.83	2694	95.2,95.2
140	35.09	96.91	32.86	88.42				130-140	53.33	2747	97,97
150	37.96	78.16	36.01	75.78				140-150	37.93	2785	98.4,98.4
160	42.42	66.93	40.49	65.28				150-160	25.18	2810	99.3,99.3
170	54.98	52.96	53.74	57.20				160-170	15.74	2826	99.8,99.8
180	58.70	34.54	58.71	34.54				170-180	4.958	2831	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm		

Conical surface Flux(90deg): 935.83 lm

%lum = 33.1%

%lamp = 33.1%

Conical surface Flux(120deg): 1451.3 lm

%lum = 51.3%

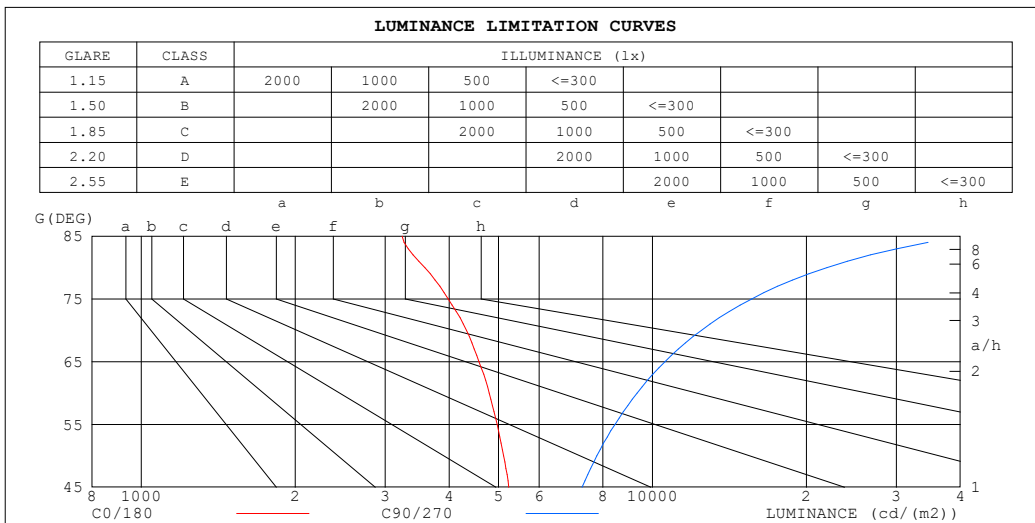
%lamp = 51.3%

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3℃  
 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:0.2723A P:29.677W PF:0.9087 Freq:59.98Hz Lamp Flux:2830.81x1 lm		
NAME: WS36-085-BN 30W 30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:



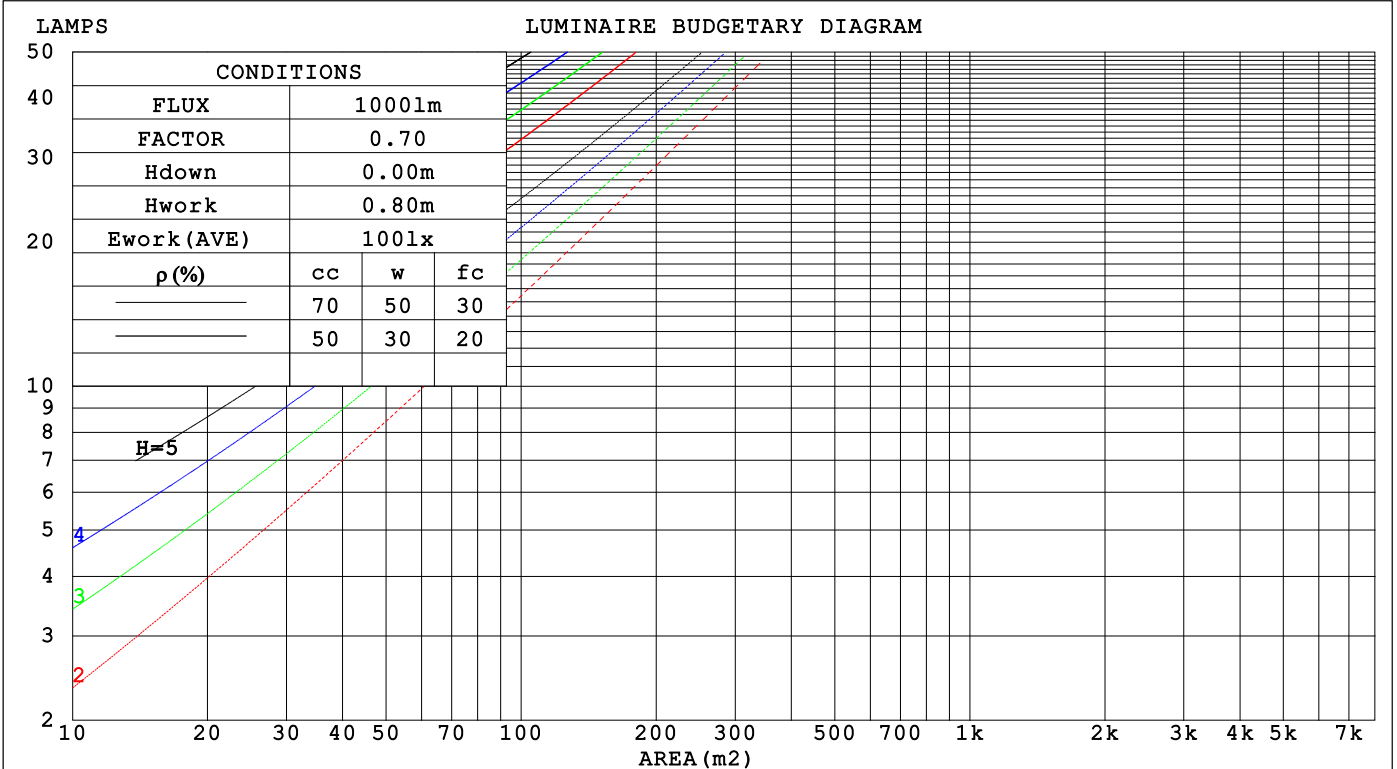
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3 °C  
 Operators: DAMIN  
 Test Date: 20 April 2026

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:0.2723A P:29.677W PF:0.9087 Freq:59.98Hz Lamp Flux:2830.81x1 lm		
NAME: WS36-085-BN 30W 30K	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	.56	.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	.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:0.2723A P:29.677W PF:0.9087 Freq:59.98Hz Lamp Flux:2830.81x1 lm		
NAME: WS36-085-BN 30W 30K	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	.385	.219	.069	.371	.212	.067	.346	.198	.063	.323	.186	.060	.301	.175	.056	
2.0	.333	.182	.056	.321	.177	.054	.298	.166	.051	.276	.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	.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	

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	.349	.349	.349	.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	.254	.290	.252	.219	.199	.174	.153	.114	.101	.090	.037	.033	.029	
3.0	.331	.276	.232	.284	.238	.201	.195	.165	.141	.112	.097	.083	.036	.031	.027	
4.0	.323	.263	.218	.277	.228	.189	.191	.159	.133	.110	.093	.079	.035	.030	.026	
5.0	.315	.254	.208	.271	.220	.181	.187	.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	.168	.175	.142	.119	.102	.084	.071	.033	.028	.023	
9.0	.288	.229	.189	.248	.199	.165	.172	.140	.117	.100	.083	.070	.032	.027	.023	
10.0	.282	.225	.187	.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℃  
 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:119.94V I:0.2723A P:29.677W PF:0.9087 Freq:59.98Hz										
Lamp Flux:2830.81x1 lm										
NAME: WS36-085-BN 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	13.4	14.7	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	15.1	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	18.2	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, 2831 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:119.94V I:0.2723A P:29.677W PF:0.9087 Freq:59.98Hz Lamp Flux:2830.81x1 lm		
NAME: WS36-085-BN 30W 30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

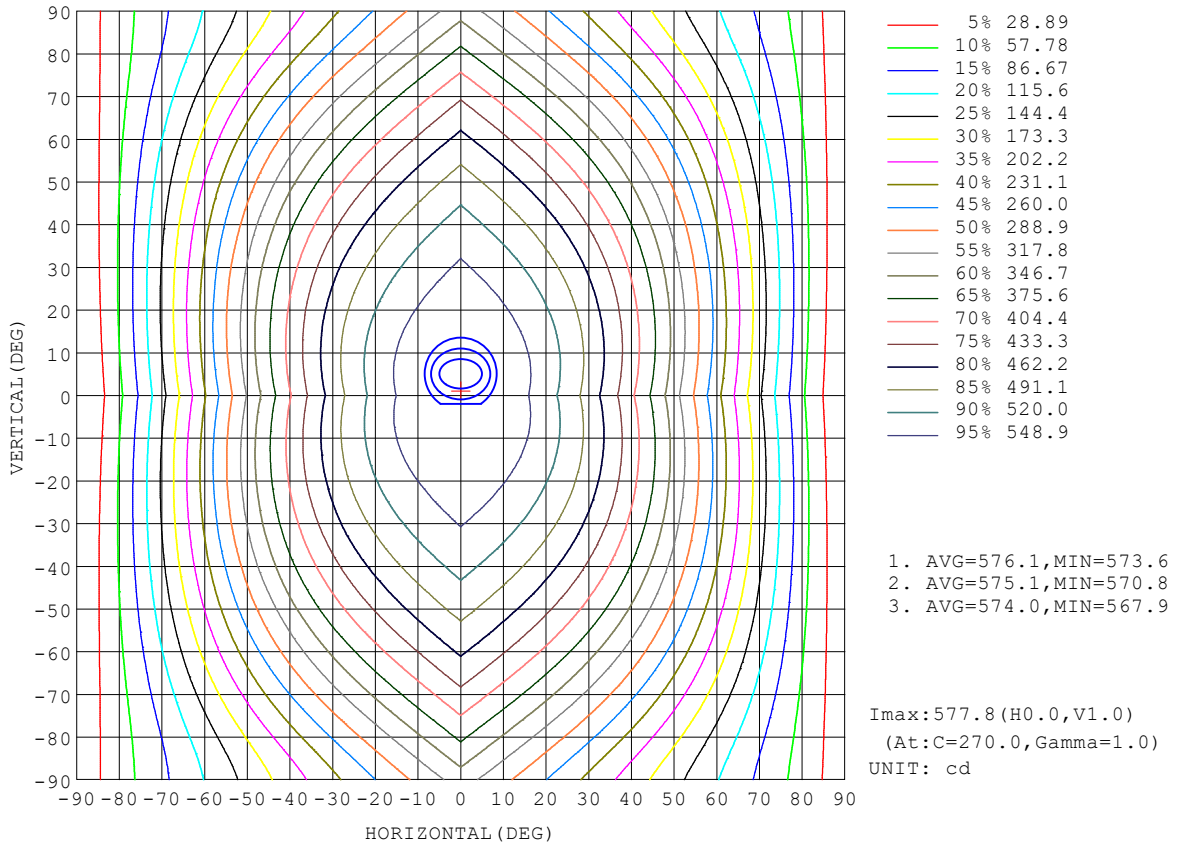
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	47	34	27	46	34	27	44	33	26	20
0.80	56	43	35	54	42	34	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	46	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	87	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:0.2723A P:29.677W PF:0.9087 Freq:59.98Hz Lamp Flux:2830.81x1 lm		
NAME: WS36-085-BN 30W 30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

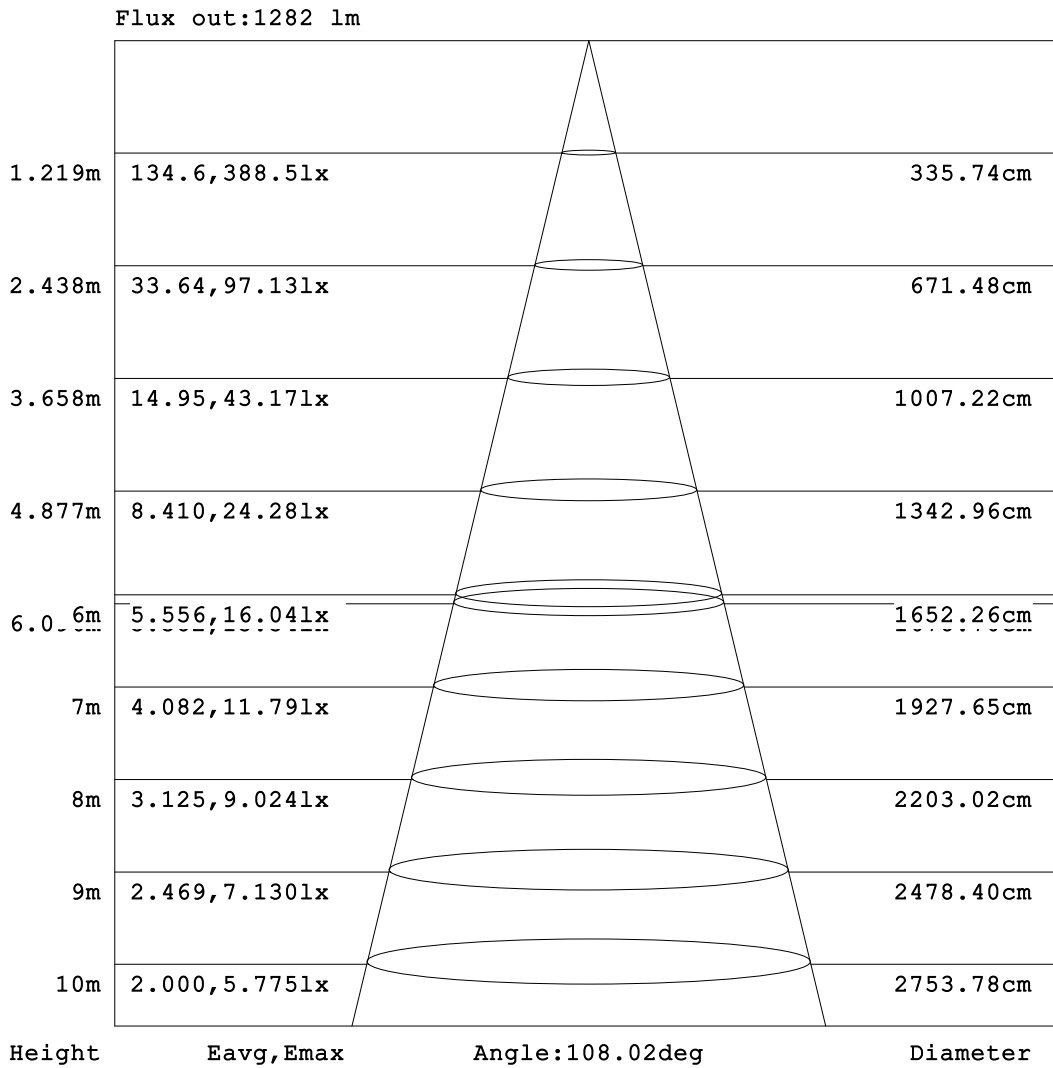


C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators: DAMIN  
Test Date: 20 April 2026

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:0.2723A P:29.677W PF:0.9087 Freq:59.98Hz Lamp Flux:2830.81x1 lm		
NAME: WS36-085-BN 30W 30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:



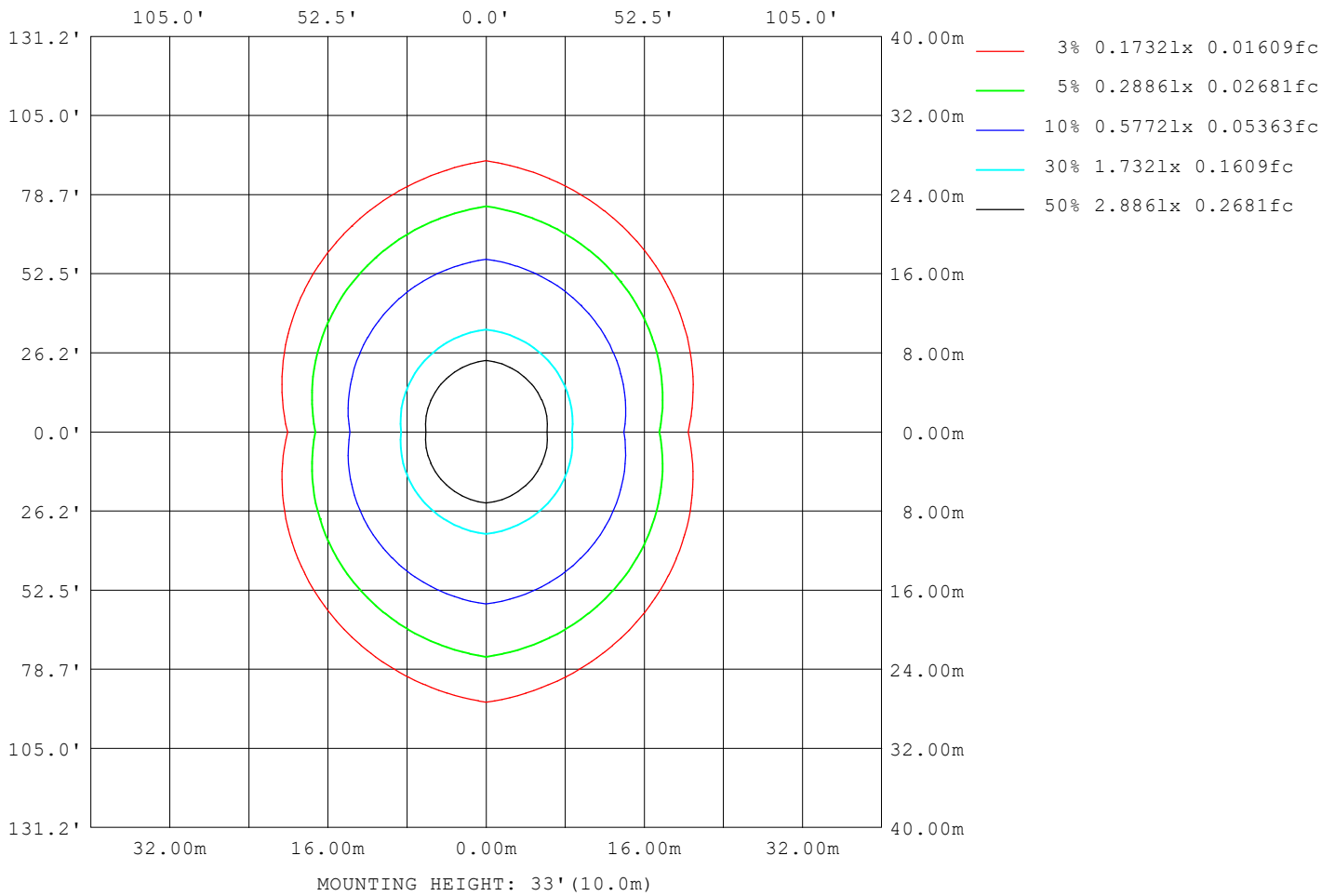
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators: DAMIN  
 Test Date: 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:0.2723A P:29.677W PF:0.9087 Freq:59.98Hz Lamp Flux:2830.81x1 lm		
NAME: WS36-085-BN 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: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:0.2723A P:29.677W PF:0.9087 Freq:59.98Hz Lamp Flux:2830.81x1 lm		
NAME: WS36-085-BN 30W 30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

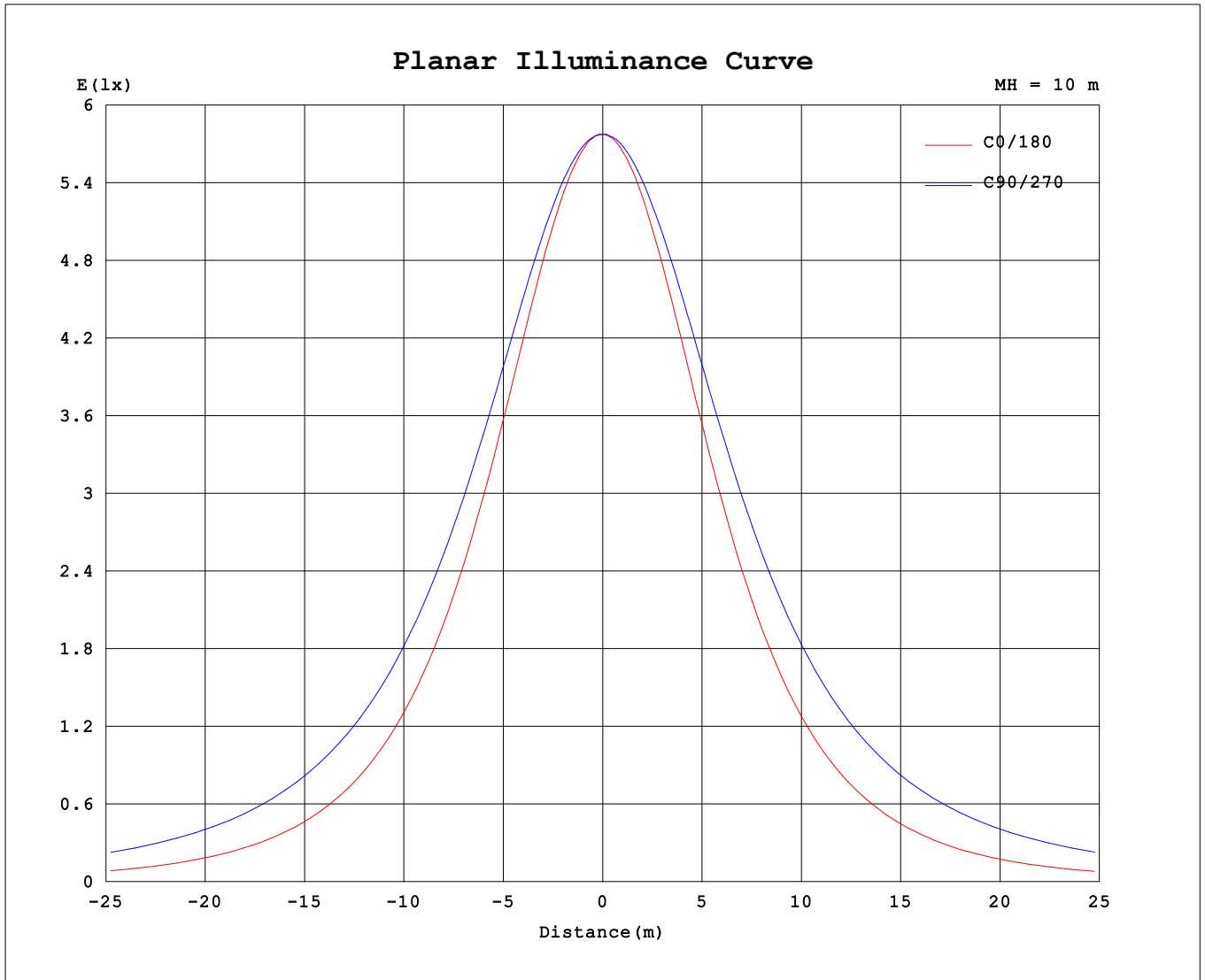
AvgL	cd/m2
L_0~180 (65) av	4440
L_0~180 (75) av	3763
L_0~180 (85) av	2790
L_90~270 (65) av	10620
L_90~270 (75) av	15678
L_90~270 (85) av	41123
L_45 (65) av	8294
L_45 (75) av	11196
L_45 (85) av	26721

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:0.2723A P:29.677W PF:0.9087 Freq:59.98Hz Lamp Flux:2830.81x1 lm		
NAME: WS36-085-BN 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	577	577	577	577															
5	575	577	574	577															
10	566	574	565	575															
15	552	571	549	572															
20	532	566	529	567															
25	508	559	503	561															
30	479	550	473	553															
35	446	540	439	543															
40	410	528	402	532															
45	370	515	362	519															
50	329	500	320	504															
55	285	484	275	488															
60	240	467	229	470															
65	193	447	182	451															
70	148	426	136	430															
75	103	404	91.7	407															
80	62.3	381	51.7	384															
85	28.2	357	20.4	360															
90	9.90	332	8.71	335															
95	10.1	293	9.89	295															
100	12.5	247	13.1	247															
105	16.1	198	17.3	200															
110	20.3	180	21.9	179															
115	25.1	171	25.8	170															
120	26.2	152	26.0	152															
125	28.2	132	26.4	130															
130	30.8	118	29.1	117															
135	33.4	107	31.7	105															
140	35.1	96.9	32.9	88.4															
145	36.3	87.5	34.4	82.5															
150	38.0	78.2	36.0	75.8															
155	39.5	71.0	37.3	67.6															
160	42.4	66.9	40.5	65.3															
165	51.3	62.7	49.9	61.1															
170	55.0	53.0	53.7	57.2															
175	58.7	39.8	57.4	48.2															
180	58.7	34.5	58.7	34.5															

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: