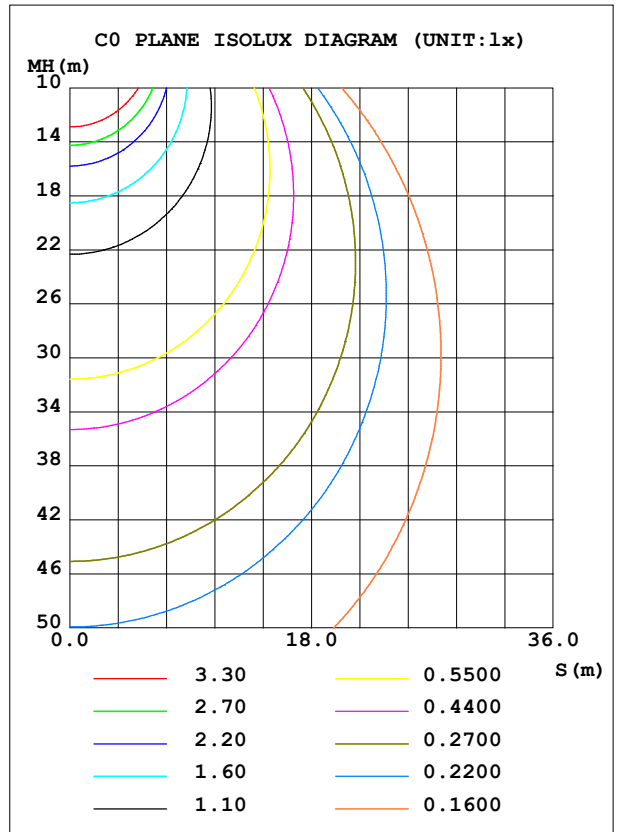
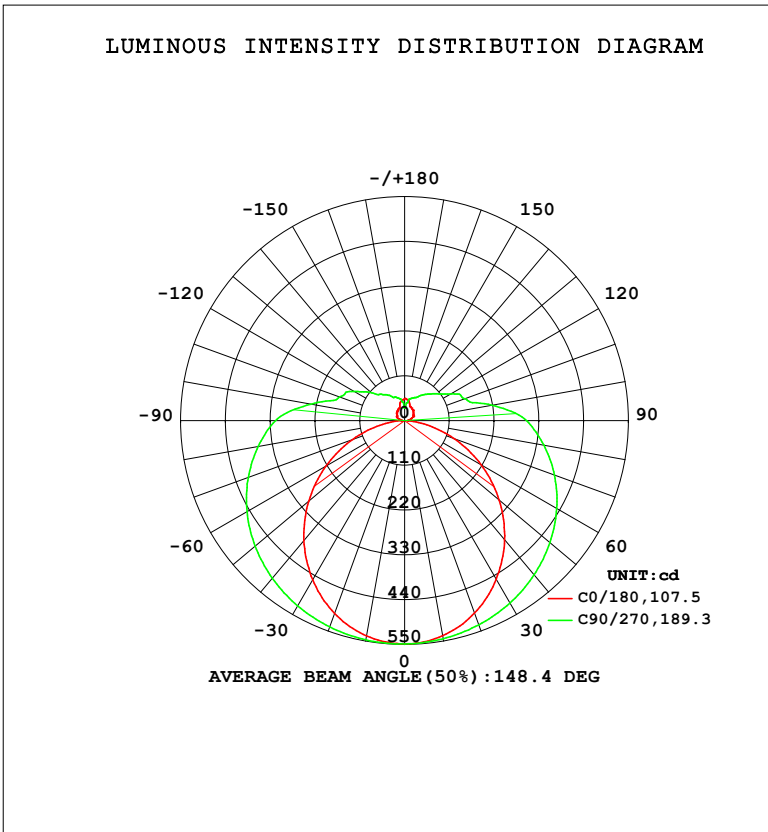


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.90V I:0.2736A P:29.878W PF:0.9107 Freq:59.98Hz Lamp Flux:2644.91x1 lm		
NAME: WS36-085-BK 30W 27K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 88.52 lm/W
MODEL	2700K	I _{max} (cd)	548.8	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)	2644.9	η UP, DN (C0-180)	9.9, 39.3	
NOMINAL FLUX (lm)	2644.91	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	536.8	544.4	537.1	546.6				0- 10	52.01	52.01	1.97,1.97
20	502.7	533.6	503.8	539.2				10- 20	150.4	202.4	7.65,7.65
30	450.1	517.4	451.5	525.6				20- 30	232.8	435.2	16.5,16.5
40	382.3	494.9	385.1	505.7				30- 40	291.4	726.7	27.5,27.5
50	303.2	466.0	307.6	479.4				40- 50	321.7	1048	39.6,39.6
60	217.5	431.4	222.8	446.9				50- 60	322.3	1371	51.8,51.8
70	128.9	391.5	135.7	408.9				60- 70	295.4	1666	63,63
80	48.14	347.1	55.32	364.9				70- 80	247.9	1914	72.4,72.4
90	8.077	299.9	7.820	317.4				80- 90	194.5	2108	79.7,79.7
100	11.82	218.4	10.68	234.7				90-100	152.6	2261	85.5,85.5
110	19.75	158.3	18.06	170.4				100-110	107.2	2368	89.5,89.5
120	25.09	131.9	22.71	144.6				110-120	87.43	2456	92.8,92.8
130	29.18	102.9	25.68	107.5				120-130	65.25	2521	95.3,95.3
140	33.27	85.12	29.17	83.55				130-140	47.60	2568	97.1,97.1
150	35.67	68.80	32.34	71.53				140-150	34.61	2603	98.4,98.4
160	38.83	59.31	36.34	61.09				150-160	22.99	2626	99.3,99.3
170	50.50	45.72	48.48	54.33				160-170	14.29	2640	99.8,99.8
180	53.89	31.48	53.93	31.48				170-180	4.528	2645	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm		

Conical surface Flux(90deg): 885.59 lm

%lum = 33.5%

%lamp = 33.5%

Conical surface Flux(120deg): 1370.7 lm

%lum = 51.8%

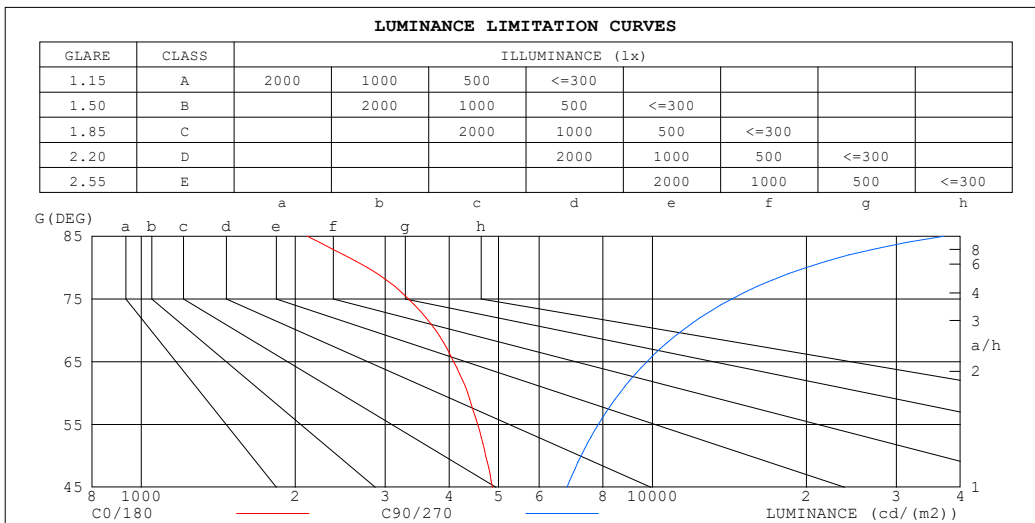
%lamp = 51.8%

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:

LUMINANCE LIMITATION CURVES

Test:U:119.90V I:0.2736A P:29.878W PF:0.9107 Freq:59.98Hz Lamp Flux:2644.91x1 lm		
NAME: WS36-085-BK 30W 27K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2112	37145
80	2772	19987
75	3331	14295
70	3769	11447
65	4084	9750
60	4350	8628
55	4548	7835
50	4717	7250
45	4864	6807

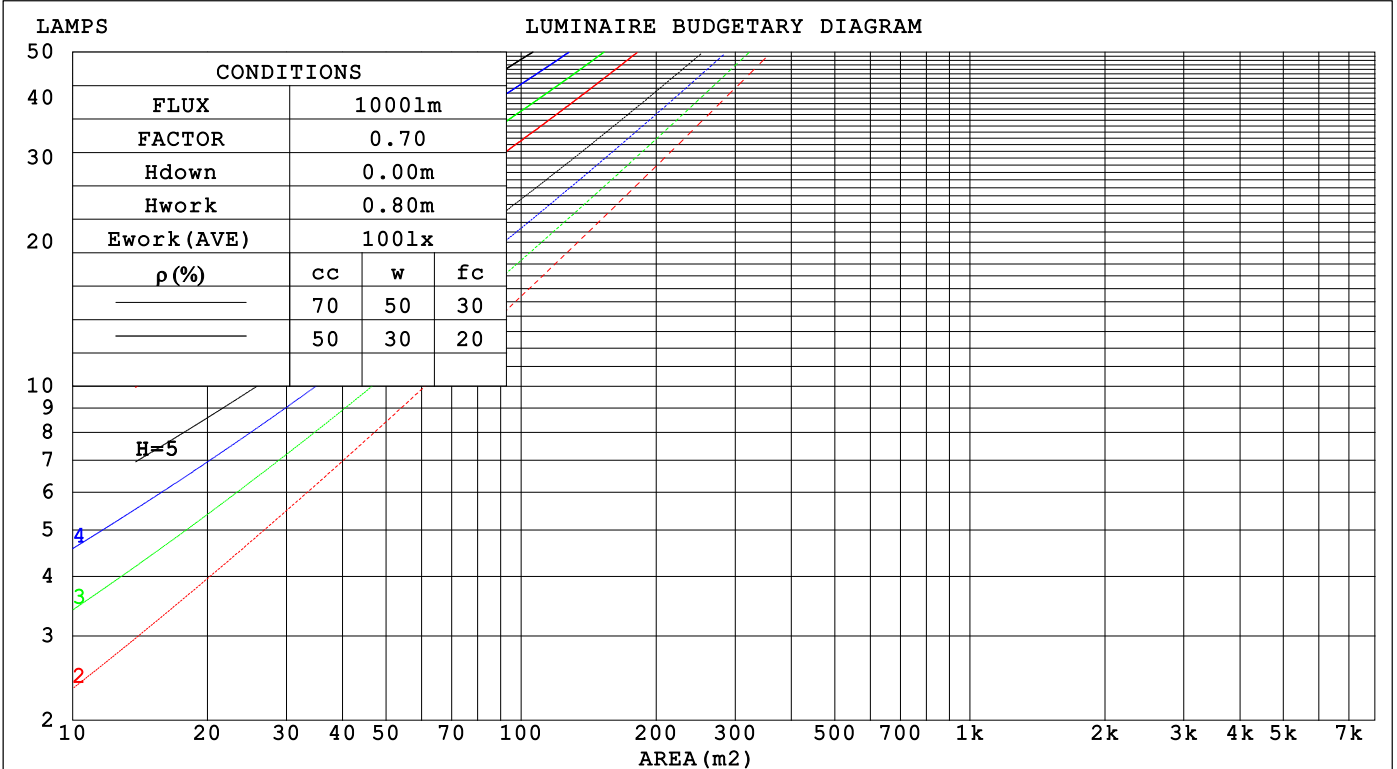
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: DAMIN
 Test Date: 07 May 2026

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:119.90V I:0.2736A P:29.878W PF:0.9107 Freq:59.98Hz Lamp Flux:2644.91x1 lm		
NAME: WS36-085-BK 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	.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	.62	.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	.29	.23	.33	.27	.22	.30	.25	.21	.19
9.0	.37	.28	.23	.35	.27	.22	.33	.26	.21	.30	.24	.20	.28	.23	.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:119.90V I:0.2736A P:29.878W PF:0.9107 Freq:59.98Hz Lamp Flux:2644.91x1 lm		
NAME: WS36-085-BK 30W 27K	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	.297	.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	.334	.289	.250	.286	.248	.216	.196	.172	.151	.113	.100	.088	.036	.032	.029	
3.0	.327	.272	.228	.280	.235	.198	.192	.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	.204	.268	.216	.178	.184	.151	.126	.107	.089	.075	.034	.029	.025	
6.0	.304	.242	.197	.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	.199	.164	.173	.140	.117	.101	.083	.069	.033	.027	.023	
9.0	.284	.225	.185	.245	.195	.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:119.90V I:0.2736A P:29.878W PF:0.9107 Freq:59.98Hz Lamp Flux:2644.91x1 lm		
NAME: WS36-085-BK 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	13.3	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	16.9	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	26.0	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	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, 2645 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.4)
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:119.90V I:0.2736A P:29.878W PF:0.9107 Freq:59.98Hz Lamp Flux:2644.91x1 lm		
NAME: WS36-085-BK 30W 27K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

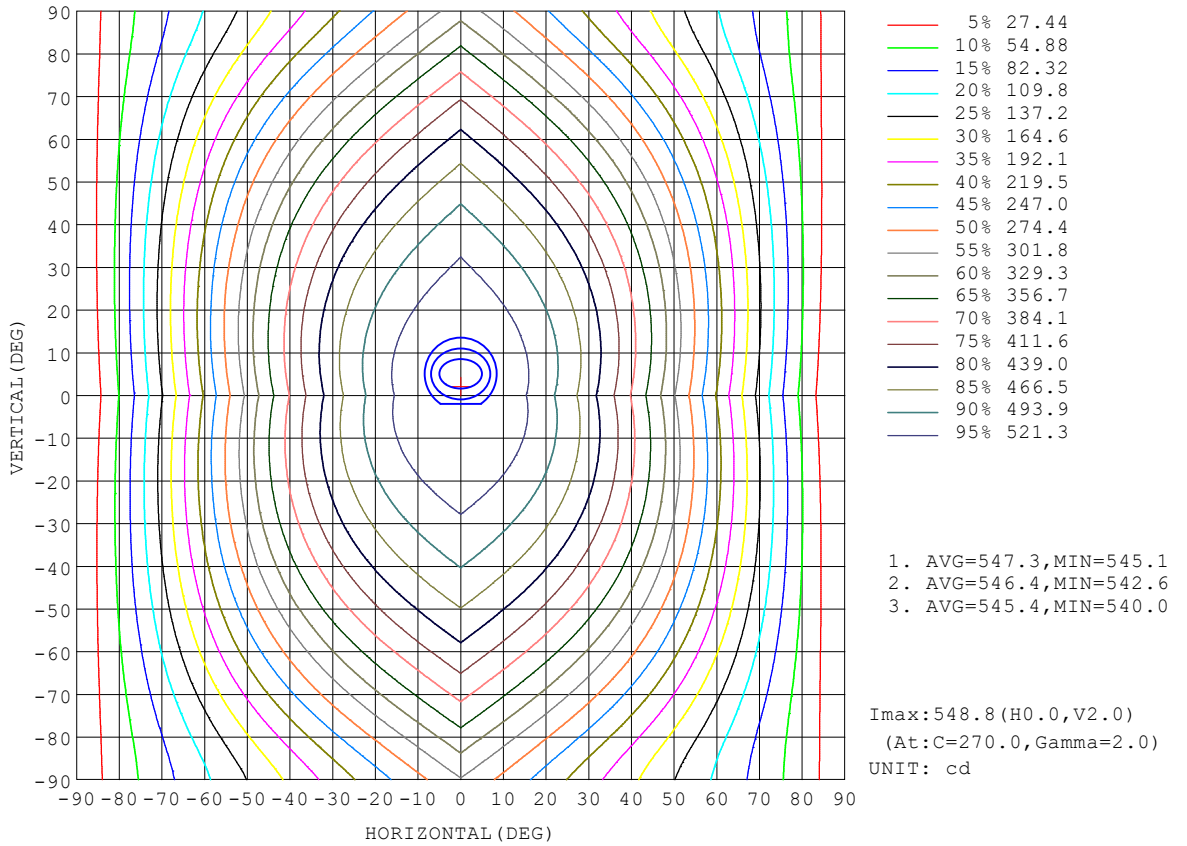
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	47	35	27	46	34	27	44	33	27	20
0.80	56	43	35	54	42	35	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:119.90V I:0.2736A P:29.878W PF:0.9107 Freq:59.98Hz Lamp Flux:2644.91x1 lm		
NAME: WS36-085-BK 30W 27K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

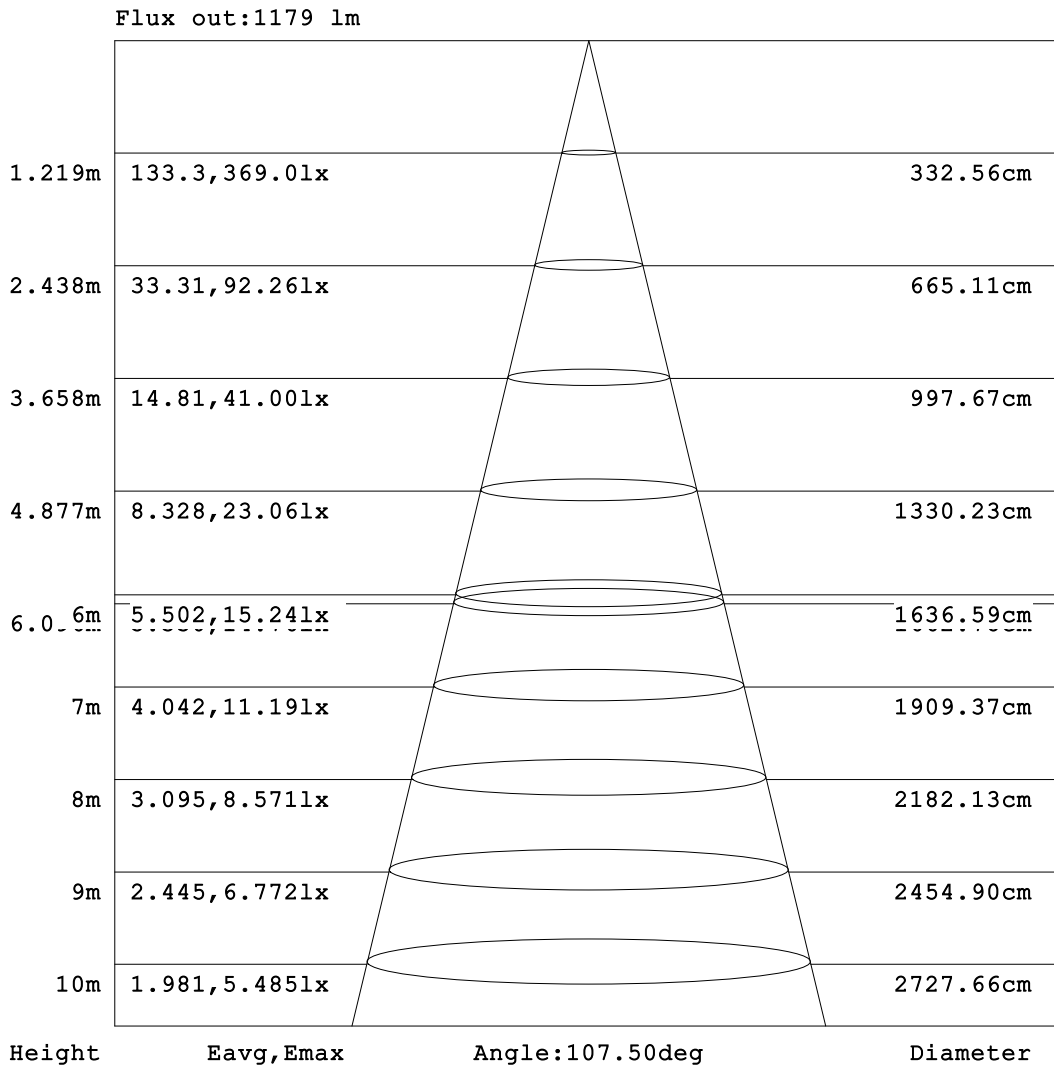


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: DAMIN
Test Date: 07 May 2026

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:119.90V I:0.2736A P:29.878W PF:0.9107 Freq:59.98Hz Lamp Flux:2644.91x1 lm		
NAME: WS36-085-BK 30W 27K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:



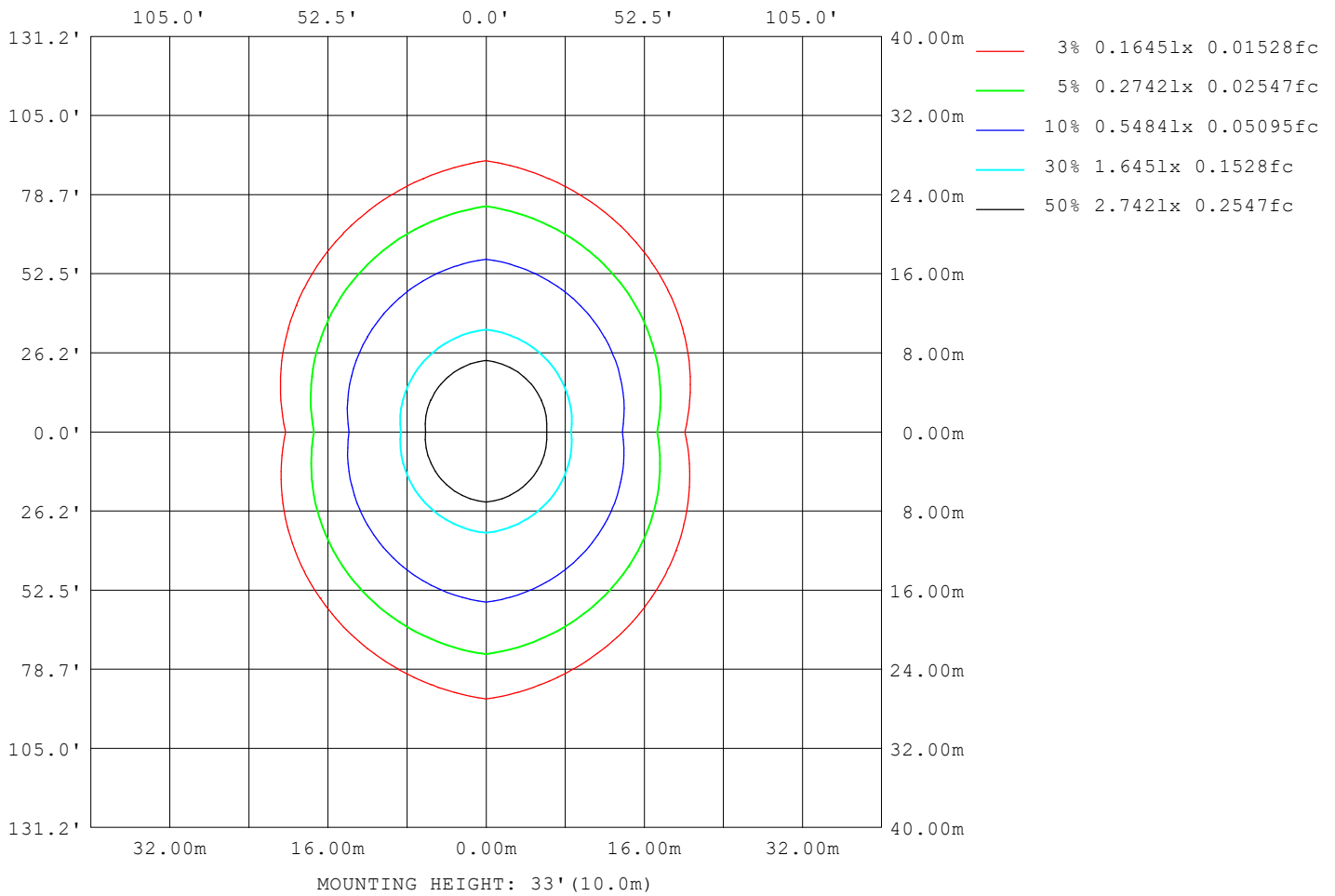
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date: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:119.90V I:0.2736A P:29.878W PF:0.9107 Freq:59.98Hz Lamp Flux:2644.91x1 lm		
NAME: WS36-085-BK 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: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:119.90V I:0.2736A P:29.878W PF:0.9107 Freq:59.98Hz Lamp Flux:2644.91x1 lm		
NAME: WS36-085-BK 30W 27K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

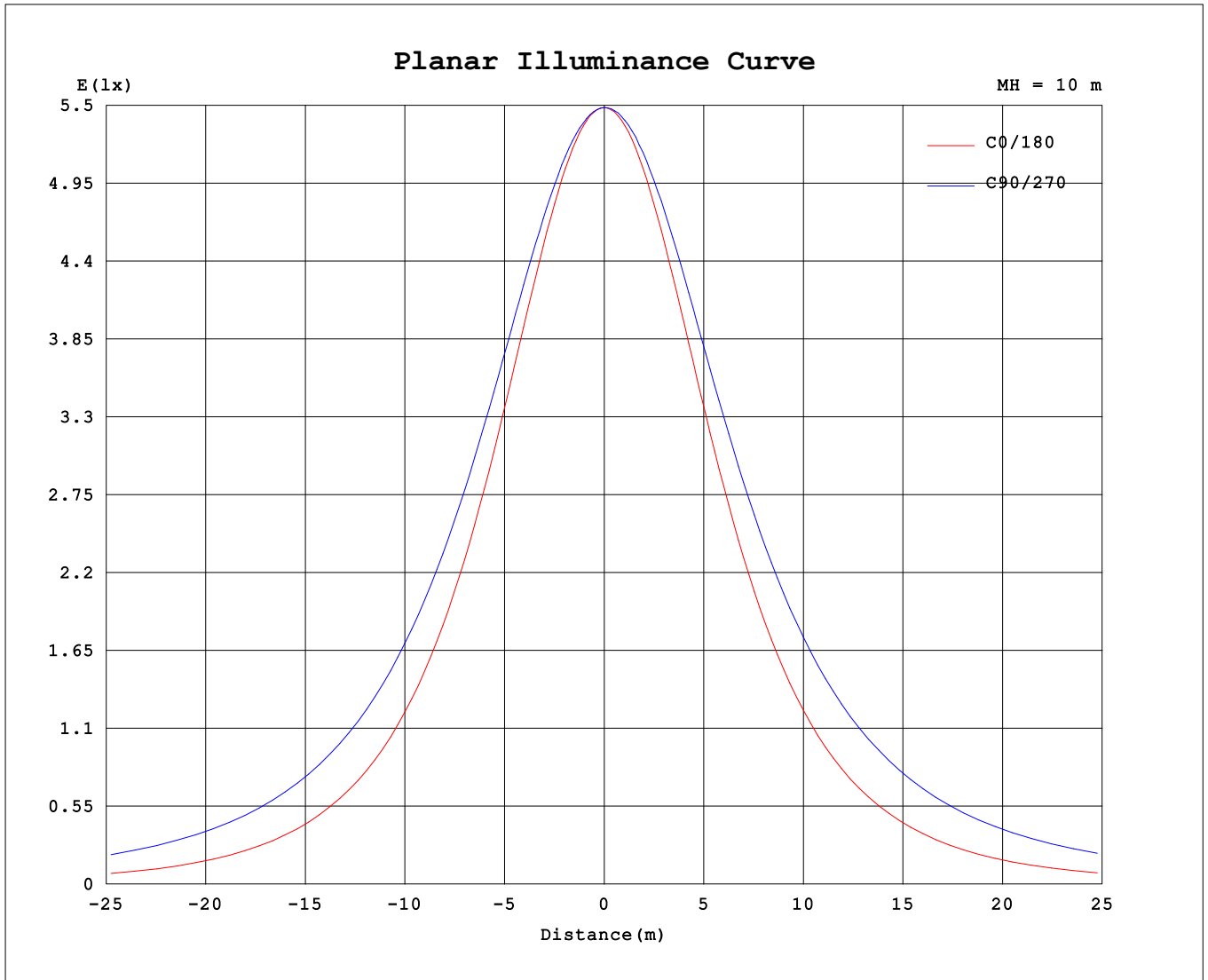
AvgL	cd/m2
L_0~180 (65) av	4158
L_0~180 (75) av	3479
L_0~180 (85) av	2403
L_90~270 (65) av	9947
L_90~270 (75) av	14632
L_90~270 (85) av	38191
L_45 (65) av	7781
L_45 (75) av	10459
L_45 (85) av	24789

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:119.90V I:0.2736A P:29.878W PF:0.9107 Freq:59.98Hz Lamp Flux:2644.91x1 lm		
NAME: WS36-085-BK 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	548	549	548	549															
5	545	547	546	548															
10	537	544	537	547															
15	523	540	523	544															
20	503	534	504	539															
25	479	526	480	533															
30	450	517	452	526															
35	418	507	420	516															
40	382	495	385	506															
45	344	481	348	493															
50	303	466	308	479															
55	261	449	266	464															
60	217	431	223	447															
65	173	412	179	429															
70	129	392	136	409															
75	86.2	370	93.9	387															
80	48.1	347	55.3	365															
85	18.4	324	23.5	342															
90	8.08	300	7.82	317															
95	9.25	263	8.57	280															
100	11.8	218	10.7	235															
105	15.5	173	14.0	190															
110	19.8	158	18.1	170															
115	24.1	151	22.2	161															
120	25.1	132	22.7	145															
125	26.9	114	23.0	124															
130	29.2	103	25.7	107															
135	31.5	93.3	27.8	90.9															
140	33.3	85.1	29.2	83.5															
145	34.2	77.2	30.8	78.1															
150	35.7	68.8	32.3	71.5															
155	36.9	62.8	33.7	63.2															
160	38.8	59.3	36.3	61.1															
165	46.6	55.9	44.5	56.9															
170	50.5	45.7	48.5	54.3															
175	53.8	33.7	51.9	46.0															
180	53.9	31.5	53.9	31.5															

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
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γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
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 Humidity:65.0%
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