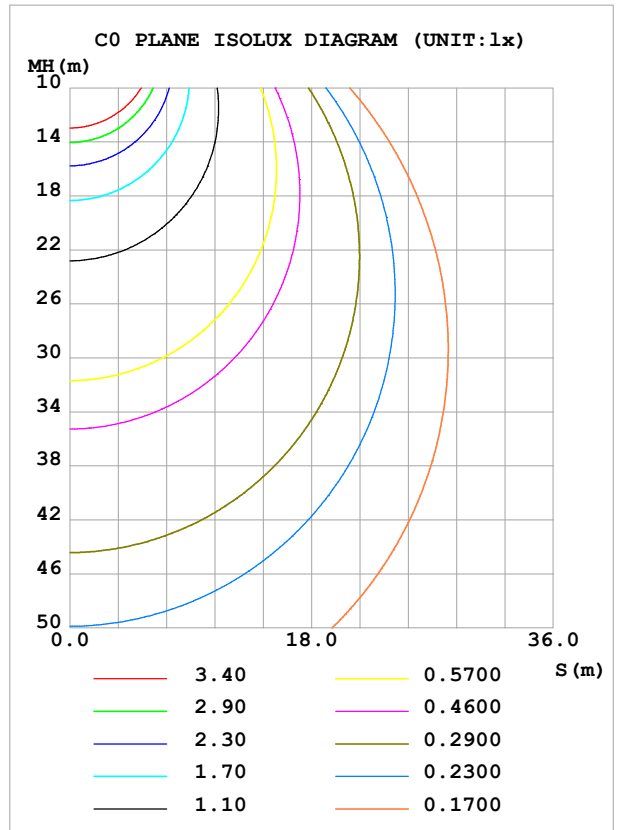
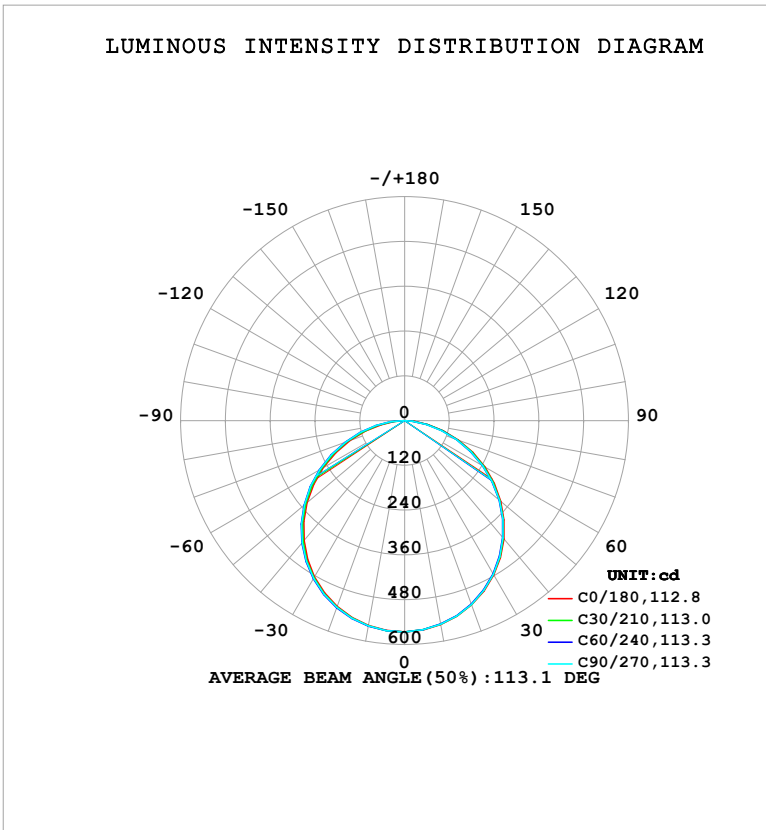


**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:121.00V I:0.2167A P:24.029W PF:0.9166 Freq:60.00Hz Lamp Flux:1635.33x1 lm		
NAME: LS-SM-12R-24W-5CCT-WH	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1#27K
MFR.: EVERFINE	SUR.: 0.274	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODELS-SM-12R-24W-5CCT-WH-27K		Imax (cd)	565.9	S/MH (C0/180)	1.27
NOMINAL POWER (W)	24	LOR (%)	100.0	S/MH (C90/270)	1.28
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	1635.3	η UP, DN (C0-180)	0.0,48.9
NOMINAL FLUX (lm)	1635.33	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0,51.1
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120	η down (%)	100.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators: DAMIN  
 Test Date: 2025-11-29

γ Range: 0 - 90DEG  
 γ Interval: 5.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.488  
 Humidity: 65.0%  
 Test Distance: 6.144m [K=1.0000]  
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	555.0	553.9	554.3	555.4	557.5	558.7	558.5	557.3	0- 10	53.56	53.56	3.28,3.28
20	525.4	523.4	524.0	525.7	529.9	532.8	532.6	530.0	10- 20	153.7	207.2	12.7,12.7
30	477.9	474.9	475.5	477.6	483.5	488.1	488.3	484.4	20- 30	233.6	440.8	27,27
40	414.1	410.1	410.4	412.5	419.8	426.1	426.8	422.2	30- 40	282.4	723.2	44.2,44.2
50	336.7	331.7	331.4	333.3	341.5	349.3	350.7	345.9	40- 50	293.4	1017	62.2,62.2
60	248.6	243.1	242.1	243.2	251.5	260.6	262.8	258.0	50- 60	265.1	1282	78.4,78.4
70	153.9	149.7	148.4	148.2	156.1	166.0	168.6	163.6	60- 70	202.1	1484	90.7,90.7
80	64.55	61.31	59.78	59.24	65.16	74.88	77.86	72.77	70- 80	117.4	1601	97.9,97.9
90	1.038	1.107	1.149	1.081	1.201	2.500	4.073	2.918	80- 90	34.12	1635	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 871 lm

%lum = 53.3%

%lamp = 53.3%

Conical surface Flux(130deg): 1392.4 lm

%lum = 85.1%

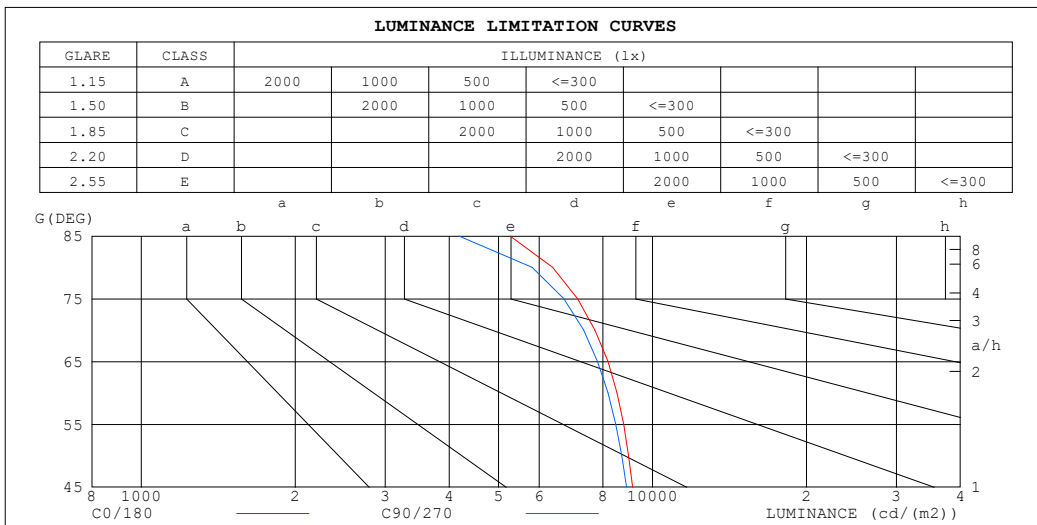
%lamp = 85.1%

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2025-11-29

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 5.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.488  
 Humidity:65.0%  
 Test Distance:6.144m [K=1.0000]  
 Remarks:

**LUMINANCE LIMITATION CURVES**

Test:U:121.00V I:0.2167A P:24.029W PF:0.9166 Freq:60.00Hz Lamp Flux:1635.33x1 lm		
NAME: LS-SM-12R-24W-5CCT-WH	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1#27K
MFR.: EVERFINE	SUR.: 0.274	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	5267	4179
80	6372	5815
75	7133	6704
70	7715	7328
65	8184	7803
60	8522	8178
55	8776	8470
50	8979	8709
45	9138	8897

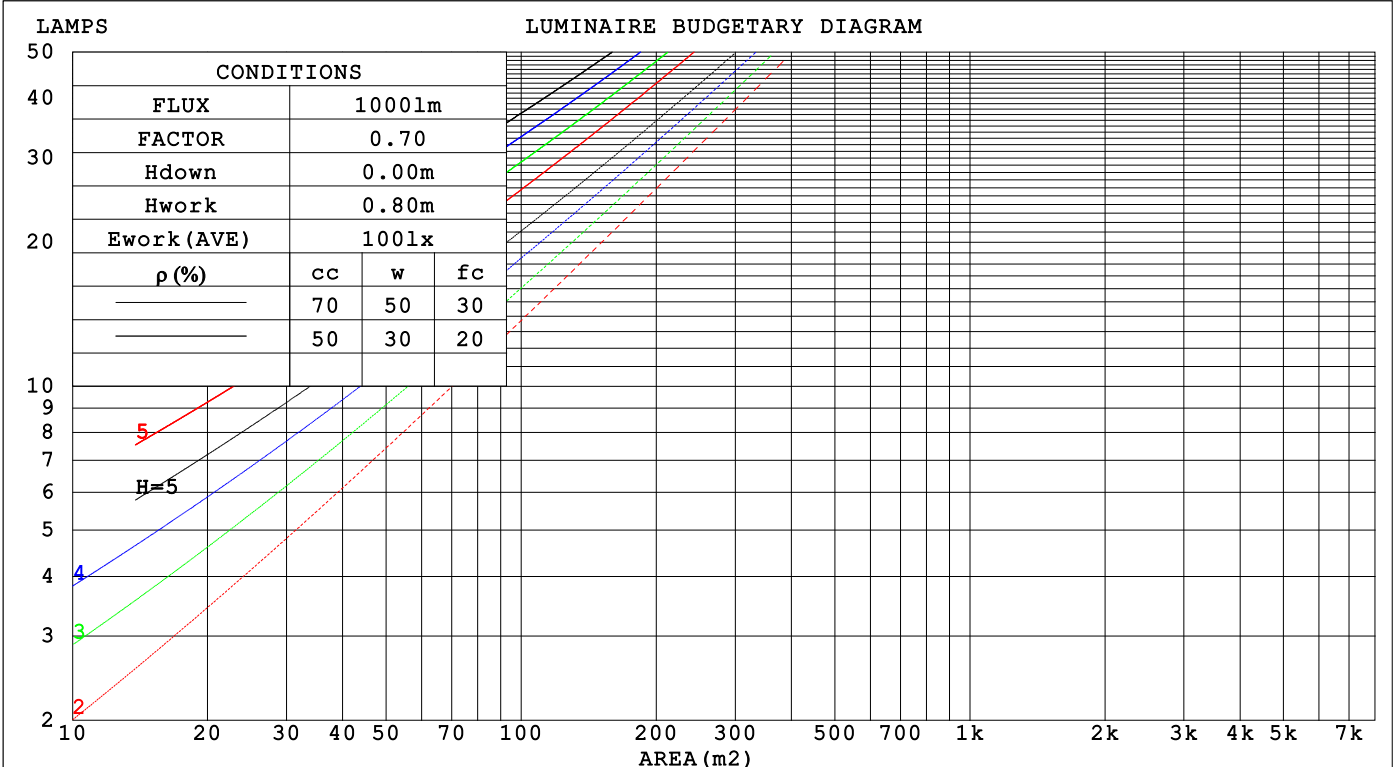
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2025-11-29

γ Range: 0 - 90DEG  
 γ Interval: 5.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.488  
 Humidity:65.0%  
 Test Distance:6.144m [K=1.0000]  
 Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:121.00V I:0.2167A P:24.029W PF:0.9166 Freq:60.00Hz Lamp Flux:1635.33x1 lm		
NAME: LS-SM-12R-24W-5CCT-WH	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1#27K
MFR.: EVERFINE	SUR.: 0.274	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															
	Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.04	.99	.95	1.01	.97	.94	.97	.94	.91	.93	.91	.88	.90	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.77	.85	.79	.75	.81	.77	.73	.78	.75	.71	.69
3.0	.79	.71	.64	.78	.70	.64	.75	.68	.63	.72	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.64	.58	.52	.62	.56	.52	.50
5.0	.63	.53	.47	.61	.53	.46	.59	.52	.46	.57	.51	.45	.55	.50	.45	.43
6.0	.56	.47	.41	.55	.47	.41	.53	.46	.40	.52	.45	.40	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.49	.41	.36	.47	.40	.35	.46	.40	.35	.33
8.0	.46	.38	.32	.46	.38	.32	.44	.37	.32	.43	.36	.31	.42	.36	.31	.29
9.0	.43	.34	.29	.42	.34	.29	.41	.34	.29	.40	.33	.28	.39	.33	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.26	.24



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2025-11-29

γ Range: 0 - 90DEG  
 γ Interval: 5.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.488  
 Humidity:65.0%  
 Test Distance:6.144m [K=1.0000]  
 Remarks:

**WEC AND CCEC**

Test:U:121.00V I:0.2167A P:24.029W PF:0.9166 Freq:60.00Hz Lamp Flux:1635.33x1 lm		
NAME: LS-SM-12R-24W-5CCT-WH	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1#27K
MFR.: EVERFINE	SUR.: 0.274	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	.313	.178	.056	.306	.175	.055	.293	.168	.054	.280	.162	.052	.269	.156	.050	
2.0	.294	.161	.049	.288	.158	.049	.276	.153	.048	.265	.149	.047	.255	.144	.045	
3.0	.272	.145	.043	.266	.142	.043	.256	.139	.042	.246	.135	.041	.237	.131	.041	
4.0	.250	.130	.038	.245	.128	.038	.236	.125	.037	.228	.122	.037	.220	.119	.036	
5.0	.231	.118	.034	.227	.117	.034	.219	.114	.034	.211	.111	.033	.204	.109	.033	
6.0	.214	.107	.031	.211	.106	.031	.203	.104	.030	.196	.102	.030	.190	.100	.030	
7.0	.199	.099	.028	.196	.098	.028	.190	.096	.028	.183	.094	.027	.178	.092	.027	
8.0	.186	.091	.026	.183	.090	.025	.177	.089	.025	.172	.087	.025	.167	.086	.025	
9.0	.174	.084	.024	.172	.084	.023	.167	.082	.023	.162	.081	.023	.157	.080	.023	
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.152	.076	.022	.148	.075	.021	

$\rho_{CC}$	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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.181	.156	.134	.154	.134	.115	.106	.092	.080	.061	.053	.046	.019	.017	.015	
2.0	.173	.132	.098	.148	.114	.085	.101	.079	.059	.058	.046	.035	.019	.015	.011	
3.0	.165	.114	.074	.141	.099	.064	.097	.069	.045	.056	.040	.027	.018	.013	.009	
4.0	.157	.101	.058	.135	.087	.051	.093	.061	.036	.054	.036	.021	.017	.012	.007	
5.0	.150	.091	.047	.129	.078	.041	.089	.055	.029	.051	.032	.017	.017	.010	.006	
6.0	.143	.082	.039	.122	.071	.034	.085	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.136	.075	.033	.117	.065	.029	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.129	.070	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.014	.008	.003	
9.0	.123	.065	.025	.106	.056	.022	.073	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.117	.060	.022	.101	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2025-11-29

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 5.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.488  
 Humidity:65.0%  
 Test Distance:6.144m [K=1.0000]  
 Remarks:

**UGR(Unified Glare Rating) Table**

Test:U:121.00V I:0.2167A P:24.029W PF:0.9166 Freq:60.00Hz										
Lamp Flux:1635.33x1 lm										
NAME: LS-SM-12R-24W-5CCT-WH					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.: 1#27K		
MFR.: EVERFINE					SUR.: 0.274			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	18.6	20.2	18.9	20.4	20.6	18.5	20.0	18.8	20.2	20.4
3H	20.1	21.6	20.4	21.8	22.0	19.9	21.3	20.2	21.6	21.8
4H	20.7	22.1	21.0	22.3	22.6	20.5	21.8	20.8	22.1	22.3
6H	21.1	22.4	21.5	22.7	22.9	20.8	22.1	21.2	22.4	22.7
8H	21.2	22.4	21.5	22.7	23.0	20.9	22.1	21.2	22.4	22.7
12H	21.3	22.4	21.6	22.7	23.0	20.9	22.1	21.3	22.4	22.7
4H 2H	19.2	20.6	19.5	20.8	21.1	19.1	20.4	19.4	20.7	20.9
3H	20.9	22.1	21.2	22.4	22.7	20.7	21.9	21.1	22.2	22.5
4H	21.6	22.7	22.0	23.0	23.3	21.4	22.5	21.8	22.8	23.1
6H	22.1	23.1	22.5	23.4	23.8	21.9	22.8	22.3	23.2	23.5
8H	22.2	23.1	22.6	23.5	23.9	21.9	22.8	22.3	23.2	23.6
12H	22.3	23.1	22.7	23.5	23.9	22.0	22.8	22.4	23.2	23.6
8H 4H	21.8	22.7	22.2	23.1	23.5	21.6	22.5	22.1	22.9	23.3
6H	22.4	23.2	22.9	23.6	24.0	22.2	23.0	22.7	23.4	23.8
8H	22.6	23.3	23.1	23.7	24.2	22.3	23.0	22.8	23.4	23.9
12H	22.8	23.3	23.3	23.8	24.3	22.4	23.0	22.9	23.5	23.9
12H 4H	21.8	22.6	22.3	23.0	23.4	21.6	22.5	22.1	22.9	23.3
6H	22.5	23.1	22.9	23.6	24.0	22.2	22.9	22.7	23.3	23.8
8H	22.7	23.3	23.2	23.7	24.2	22.4	23.0	22.9	23.4	23.9
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.1 / - 0.3					+ 0.1 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 1635 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.7)  
 Area: 0.059 m2

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2025-11-29

γ Range: 0 - 90DEG  
 γ Interval: 5.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.488  
 Humidity:65.0%  
 Test Distance:6.144m [K=1.0000]  
 Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:121.00V I:0.2167A P:24.029W PF:0.9166 Freq:60.00Hz Lamp Flux:1635.33x1 lm		
NAME: LS-SM-12R-24W-5CCT-WH	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1#27K
MFR.: EVERFINE	SUR.: 0.274	Shielding Angle:

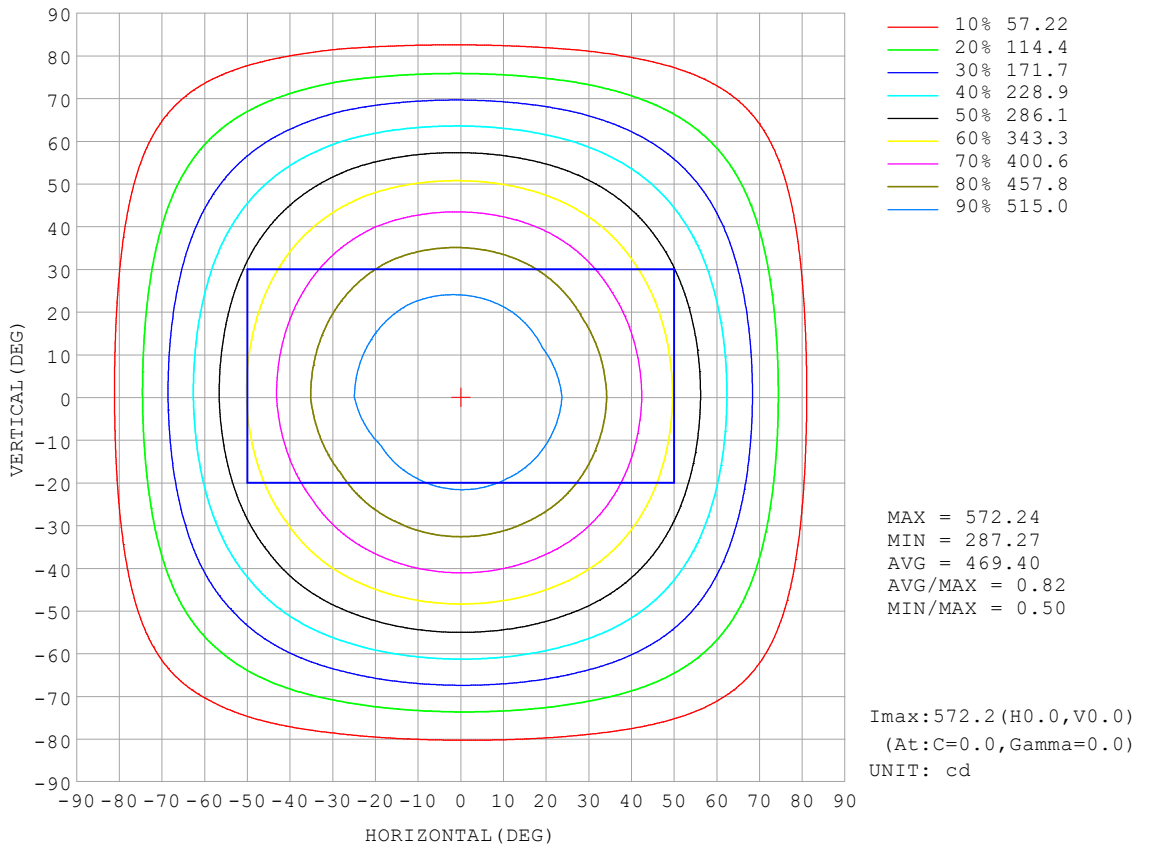
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	46	39	57	45	39	55	45	38	32
0.80	67	56	48	66	55	48	65	54	48	41
1.00	76	65	57	75	64	57	72	65	56	49
1.25	83	72	65	81	72	65	79	70	64	57
1.50	88	78	71	86	77	70	83	75	69	62
2.00	95	86	80	93	85	79	89	83	77	69
2.50	99	91	85	97	89	84	93	87	82	74
3.00	102	95	90	100	94	88	96	91	86	78
4.00	106	100	96	104	99	94	99	95	92	83
5.00	109	104	100	106	102	98	102	98	95	86
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2025-11-29

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 5.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.488  
 Humidity:65.0%  
 Test Distance:6.144m [K=1.0000]  
 Remarks:

**ISOCANDELA DIAGRAM**

Test:U:121.00V I:0.2167A P:24.029W PF:0.9166 Freq:60.00Hz Lamp Flux:1635.33x1 lm		
NAME: LS-SM-12R-24W-5CCT-WH	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1#27K
MFR.: EVERFINE	SUR.: 0.274	Shielding Angle:

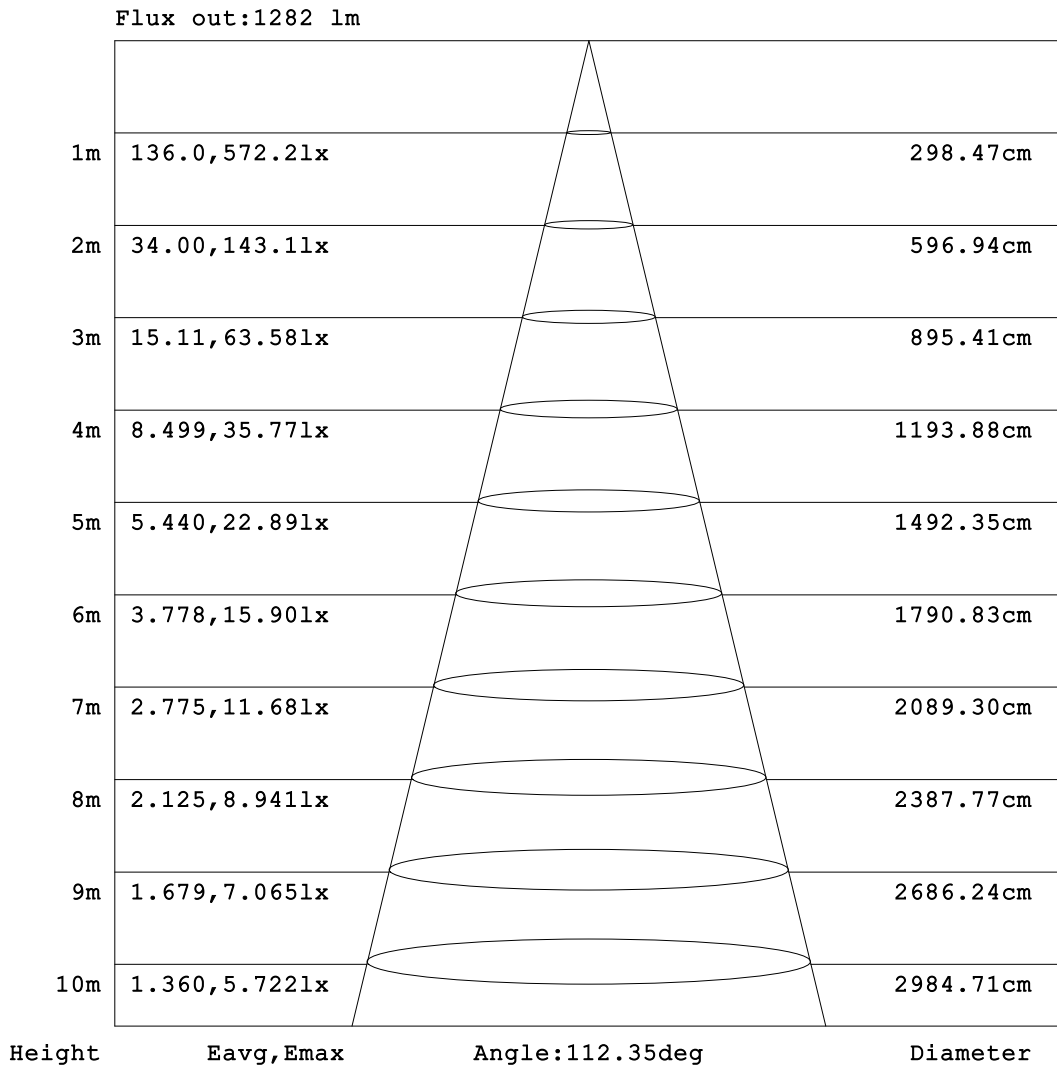


C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2025-11-29

γ Range: 0 - 90DEG  
 γ Interval: 5.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.488  
 Humidity:65.0%  
 Test Distance:6.144m [K=1.0000]  
 Remarks:

**AAI Figure**

Test:U:121.00V I:0.2167A P:24.029W PF:0.9166 Freq:60.00Hz Lamp Flux:1635.33x1 lm		
NAME: LS-SM-12R-24W-5CCT-WH	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1#27K
MFR.: EVERFINE	SUR.: 0.274	Shielding Angle:



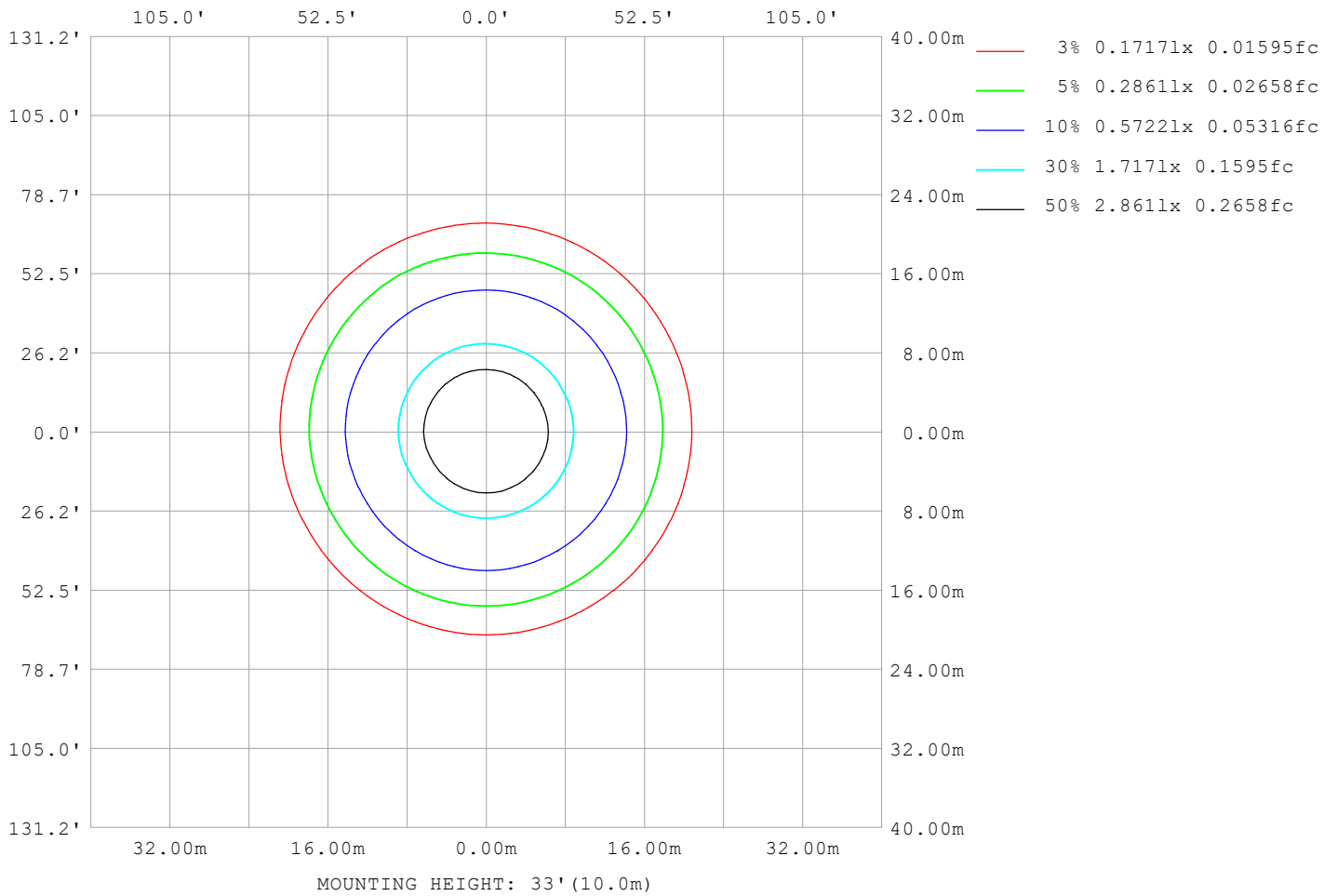
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators: DAMIN  
 Test Date: 2025-11-29

γ Range: 0 - 90DEG  
 γ Interval: 5.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.488  
 Humidity: 65.0%  
 Test Distance: 6.144m [K=1.0000]  
 Remarks:

**ISOLUX DIAGRAM**

Test:U:121.00V I:0.2167A P:24.029W PF:0.9166 Freq:60.00Hz Lamp Flux:1635.33x1 lm		
NAME: LS-SM-12R-24W-5CCT-WH	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1#27K
MFR.: EVERFINE	SUR.: 0.274	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2025-11-29

γ Range: 0 - 90DEG  
 γ Interval: 5.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.488  
 Humidity:65.0%  
 Test Distance:6.144m [K=1.0000]  
 Remarks:

**LED Avg.L Report**

Test:U:121.00V I:0.2167A P:24.029W PF:0.9166 Freq:60.00Hz Lamp Flux:1635.33x1 lm		
NAME: LS-SM-12R-24W-5CCT-WH	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1#27K
MFR.: EVERFINE	SUR.: 0.274	Shielding Angle:

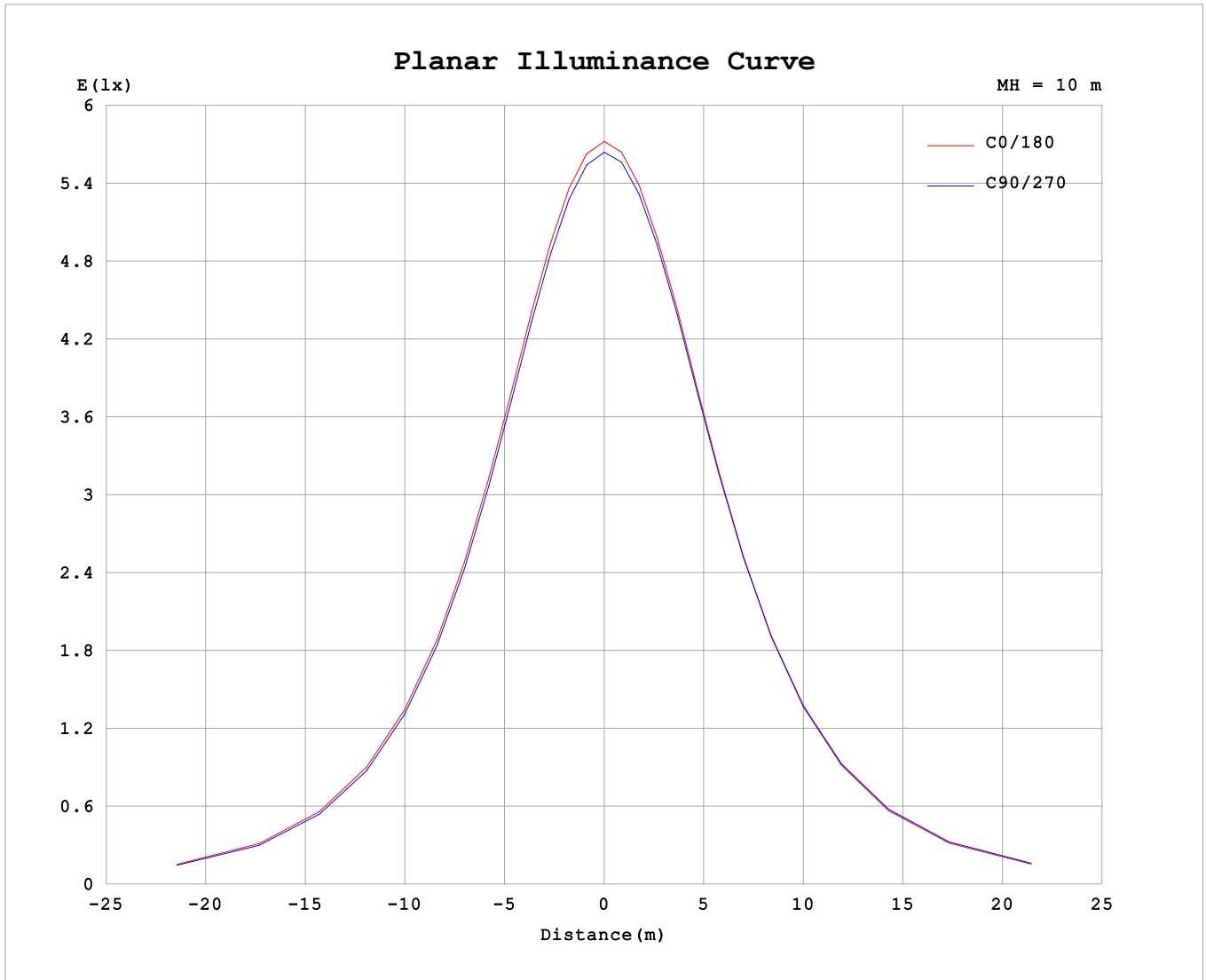
AvgL	cd/m2
L_0~180 (65) av	8137
L_0~180 (75) av	7093
L_0~180 (85) av	5206
L_90~270 (65) av	8245
L_90~270 (75) av	7366
L_90~270 (85) av	5770
L_45 (65) av	8190
L_45 (75) av	7245
L_45 (85) av	5492

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3℃  
 Operators:DAMIN  
 Test Date:2025-11-29

γ Range: 0 - 90DEG  
 γ Interval: 5.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.488  
 Humidity:65.0%  
 Test Distance:6.144m [K=1.0000]  
 Remarks:

**Planar Illuminance Curve**



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators: DAMIN  
 Test Date: 2025-11-29

γ Range: 0 - 90DEG  
 γ Interval: 5.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.488  
 Humidity: 65.0%  
 Test Distance: 6.144m [K=1.0000]  
 Remarks:

