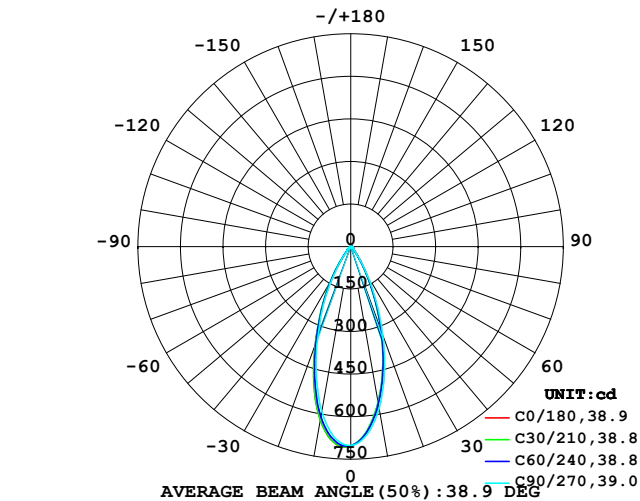


## LUMINAIRE PHOTOMETRIC TEST REPORT

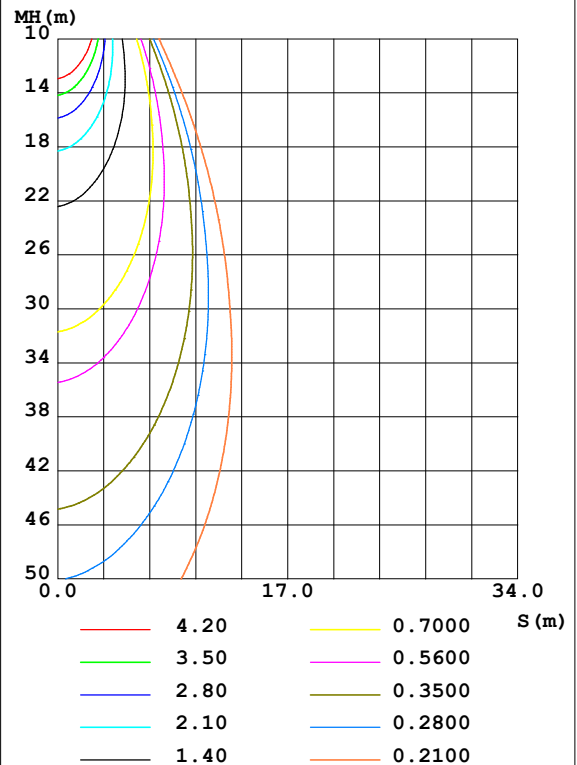
Test:U:24.00V I:0.203A P:4.87W PF:1.000 Freq:0Hz Lamp Flux:358.566x1 lm		
NAME: DE12CTWWS 2700-6000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2025062603
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 73.60 lm/W			
MODEL		I <sub>max</sub> (cd)	707.3	S/MH (C0/180)	0.67
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	0.63
RATED VOLTAGE (V)	24	TOTAL FLUX (lm)	358.57	η UP, DN (C0-180)	0.0, 50.0
NOMINAL FLUX (lm)	358.566	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.0
LAMPS INSIDE	1	η up (%)	0.1	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	24	η down (%)	99.9	CIBSE SHR MAX	0.65

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25DEG  
Operators: SENPU  
Test Date: 2025-06-26

γ Range: 0 - 100DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.444  
Humidity: 61%  
Test Distance: 8.000m [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	559.1	564.7	578.8	612.1	620.6	610.9	590.1	556.7	0- 10	61.24	61.24	17.1,17.1
20	314.4	317.5	332.6	370.2	367.2	355.6	342.2	312.2	10- 20	128.4	189.6	52.9,52.9
30	112.2	113.9	121.5	147.7	148.5	141.6	133.0	112.1	20- 30	101.6	291.2	81.2,81.2
40	25.54	26.38	27.06	30.28	27.61	26.66	25.11	22.89	30- 40	40.55	331.8	92.5,92.5
50	9.596	9.852	10.22	10.59	10.15	9.891	9.581	9.115	40- 50	12.10	343.9	95.9,95.9
60	5.598	5.515	5.677	5.881	5.767	5.764	5.645	5.450	50- 60	6.663	350.5	97.8,97.8
70	3.480	3.337	3.471	3.590	3.563	3.628	3.537	3.410	60- 70	4.463	355.0	99,99
80	1.806	1.716	1.841	0.9930	1.689	1.736	1.645	0.8114	70- 80	2.644	357.6	99.7,99.7
90	0.3138	0.2789	0.2789	0.2964	0.0697	0.0610	0.0436	0.0872	80- 90	0.7367	358.4	99.9,99.9
100	0.3138	0.2789	0.2789	0.2964	0.0610	0.0610	0.0436	0.0523	90-100	0.1898	358.6	100,100
110	0	0	0	0	0	0	0	0	100-110	0.0092	358.6	100,100
120	0	0	0	0	0	0	0	0	110-120	0	358.6	100,100
130	0	0	0	0	0	0	0	0	120-130	0	358.6	100,100
140	0	0	0	0	0	0	0	0	130-140	0	358.6	100,100
150	0	0	0	0	0	0	0	0	140-150	0	358.6	100,100
160	0	0	0	0	0	0	0	0	150-160	0	358.6	100,100
170	0	0	0	0	0	0	0	0	160-170	0	358.6	100,100
180	0	0	0	0	0	0	0	0	170-180	0	358.6	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 339 lm

%lum = 94.5%

%lamp = 94.5%

Conical surface Flux(120deg): 350.52 lm

%lum = 97.8%

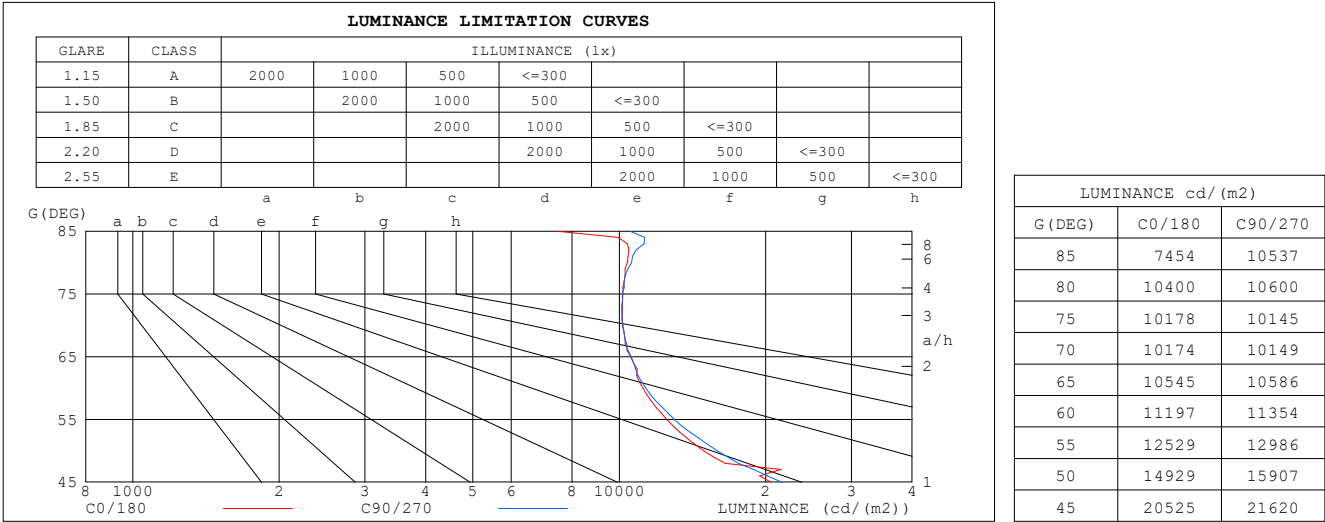
%lamp = 97.8%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:SENPU  
 Test Date:2025-06-26

$\gamma$  Range: 0 - 100DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.444  
 Humidity:61%  
 Test Distance:8.000m [K=1.0000]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:24.00V I:0.203A P:4.87W PF:1.000 Freq:0Hz Lamp Flux:358.566x1 lm		
NAME: DE12CTWWS 2700-6000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2025062603
MFR.:	SUR.:	Shielding Angle:



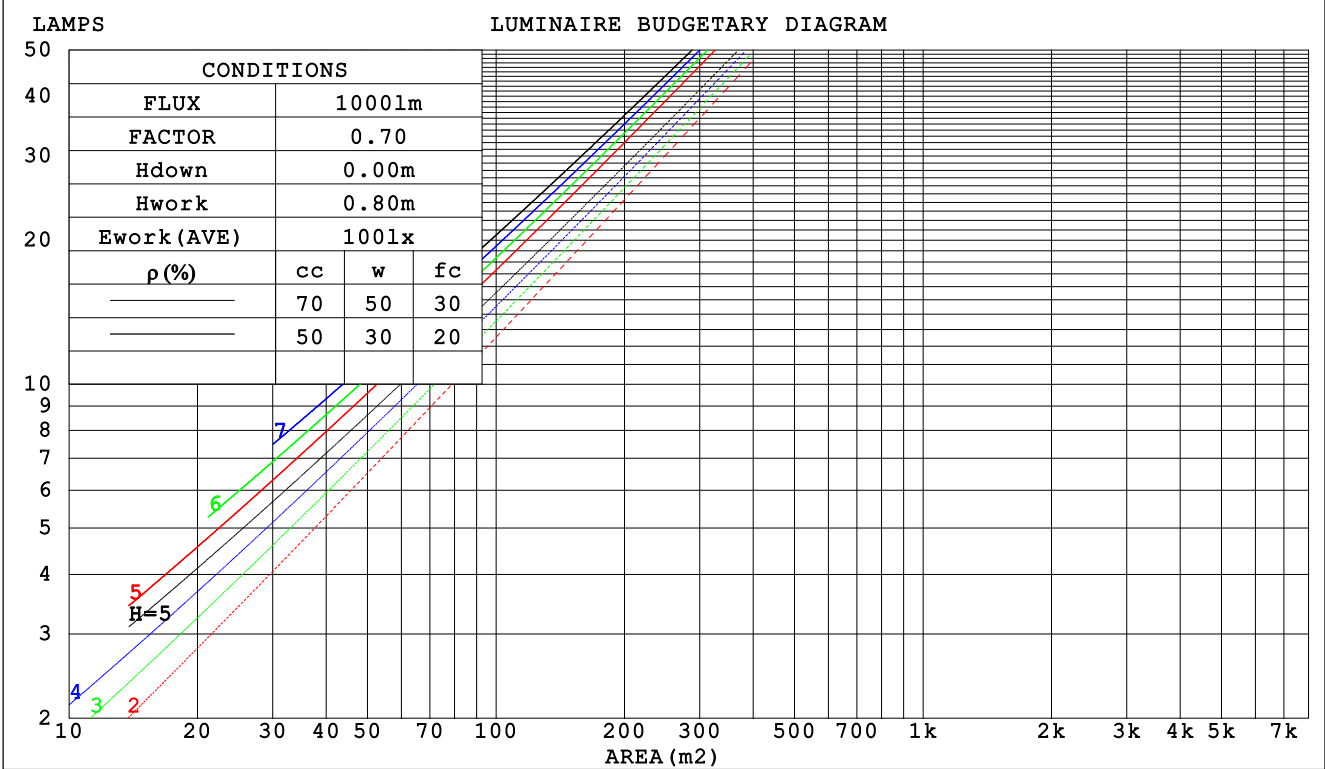
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25DEG  
Operators:SENPU  
Test Date:2025-06-26

γ Range: 0 - 100DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.444  
Humidity:61%  
Test Distance:8.000m [K=1.0000]  
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.00V I:0.203A P:4.87W PF:1.000 Freq:0Hz		
Lamp Flux:358.566x1 lm		
NAME: DE12CTWWS 2700-6000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2025062603
MFR.:	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	1.19	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	1.11	1.09	1.06	1.09	1.07	1.05	1.05	1.03	1.02	1.01	.00	.99	.98	.97	.96	.94
2.0	1.04	1.00	.97	1.02	.99	.96	.99	.96	.94	.96	.94	.92	.93	.91	.90	.88
3.0	.98	.93	.89	.96	.92	.89	.94	.90	.87	.91	.88	.86	.89	.87	.84	.83
4.0	.92	.87	.83	.91	.86	.82	.89	.85	.82	.87	.83	.81	.85	.82	.80	.78
5.0	.87	.82	.78	.86	.81	.77	.84	.80	.77	.83	.79	.76	.81	.78	.75	.74
6.0	.83	.77	.73	.82	.77	.73	.80	.76	.72	.79	.75	.72	.78	.74	.71	.70
7.0	.78	.73	.69	.78	.73	.69	.77	.72	.69	.75	.71	.68	.74	.71	.68	.67
8.0	.75	.69	.66	.74	.69	.65	.73	.68	.65	.72	.68	.65	.71	.67	.65	.63
9.0	.71	.66	.62	.71	.66	.62	.70	.65	.62	.69	.65	.62	.68	.64	.62	.60
10.0	.68	.63	.59	.68	.63	.59	.67	.62	.59	.66	.62	.59	.66	.62	.59	.58



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25DEG  
Operators:SENPU  
Test Date:2025-06-26

γ Range: 0 - 100DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.444  
Humidity:61%  
Test Distance:8.000m [K=1.0000]  
Remarks:

## WEC AND CCEC

Test:U:24.00V I:0.203A P:4.87W PF:1.000 Freq:0Hz Lamp Flux:358.566x1 lm		
NAME: DE12CTWWS 2700-6000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2025062603
MFR.:	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						Wall Exitance Coefficients (WEC)										
0.0																	
1.0	.172	.098	.031	.166	.094	.030	.153	.088	.028	.141	.082	.026	.131	.076	.024		
2.0	.162	.089	.027	.157	.086	.027	.146	.081	.025	.137	.077	.024	.128	.072	.023		
3.0	.153	.081	.024	.148	.079	.024	.139	.075	.023	.131	.072	.022	.123	.068	.021		
4.0	.144	.075	.022	.140	.073	.022	.133	.070	.021	.125	.067	.020	.119	.065	.020		
5.0	.137	.070	.020	.133	.068	.020	.126	.066	.019	.120	.063	.019	.114	.061	.018		
6.0	.130	.065	.019	.127	.064	.018	.121	.062	.018	.115	.060	.018	.110	.058	.017		
7.0	.123	.061	.017	.121	.060	.017	.116	.058	.017	.111	.057	.017	.106	.055	.016		
8.0	.118	.058	.016	.115	.057	.016	.111	.055	.016	.107	.054	.016	.102	.053	.015		
9.0	.113	.054	.015	.110	.054	.015	.106	.053	.015	.103	.051	.015	.099	.050	.015		
10.0	.108	.052	.014	.106	.051	.014	.102	.050	.014	.099	.049	.014	.096	.048	.014		

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.191	.191	.191	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.171	.158	.146	.146	.135	.125	.100	.093	.087	.058	.054	.050	.018	.017	.016	
2.0	.155	.133	.114	.133	.114	.099	.091	.079	.069	.053	.046	.040	.017	.015	.013	
3.0	.142	.114	.091	.122	.098	.079	.084	.068	.056	.048	.040	.033	.016	.013	.011	
4.0	.131	.099	.074	.113	.086	.065	.078	.060	.045	.045	.035	.027	.014	.011	.009	
5.0	.122	.087	.062	.105	.076	.054	.072	.053	.038	.042	.031	.022	.013	.010	.007	
6.0	.114	.078	.052	.098	.067	.045	.068	.047	.032	.039	.028	.019	.013	.009	.006	
7.0	.107	.070	.044	.092	.061	.038	.064	.043	.027	.037	.025	.016	.012	.008	.005	
8.0	.101	.064	.038	.087	.055	.033	.060	.039	.023	.035	.023	.014	.011	.008	.005	
9.0	.096	.058	.033	.083	.051	.029	.057	.036	.020	.033	.021	.012	.011	.007	.004	
10.0	.091	.054	.029	.079	.047	.025	.055	.033	.018	.032	.019	.011	.010	.006	.004	

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25DEG  
Operators:SENPU  
Test Date:2025-06-26

γ Range: 0 - 100DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.444  
Humidity:61%  
Test Distance:8.000m [K=1.0000]  
Remarks:

UGR(Unified Glare Rating) Table

Test:U:24.00V I:0.203A P:4.87W PF:1.000 Freq:0Hz Lamp Flux:358.566x1 lm										
NAME: DE12CTWWS 2700-6000K					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.: 2025062603		
MFR.:					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	17.3	18.2	17.5	18.3	18.5	17.5	18.4	17.7	18.5	18.7
3H	17.8	18.6	18.0	18.8	19.0	17.9	18.7	18.2	18.9	19.1
4H	18.1	18.8	18.4	19.1	19.3	18.2	19.0	18.5	19.2	19.4
6H	18.4	19.1	18.7	19.3	19.6	18.5	19.2	18.8	19.5	19.7
8H	18.5	19.2	18.8	19.4	19.7	18.6	19.3	18.9	19.6	19.8
12H	18.6	19.2	18.9	19.5	19.8	18.7	19.4	19.0	19.7	19.9
4H 2H	17.4	18.2	17.7	18.4	18.6	17.6	18.3	17.8	18.5	18.8
3H	18.1	18.7	18.4	19.0	19.3	18.2	18.9	18.5	19.1	19.4
4H	18.5	19.1	18.8	19.4	19.7	18.6	19.2	19.0	19.5	19.8
6H	18.9	19.5	19.3	19.8	20.1	19.0	19.6	19.4	19.9	20.2
8H	19.1	19.6	19.5	20.0	20.3	19.2	19.7	19.6	20.1	20.4
12H	19.2	19.7	19.6	20.0	20.4	19.4	19.8	19.8	20.2	20.6
8H 4H	18.6	19.1	19.0	19.5	19.8	18.7	19.2	19.1	19.6	19.9
6H	19.2	19.6	19.6	20.0	20.4	19.3	19.7	19.7	20.1	20.5
8H	19.5	19.8	19.9	20.2	20.7	19.6	19.9	20.0	20.4	20.8
12H	19.6	19.9	20.1	20.4	20.9	19.8	20.1	20.3	20.6	21.1
12H 4H	18.6	19.1	19.0	19.4	19.8	18.7	19.2	19.1	19.5	19.9
6H	19.2	19.6	19.7	20.0	20.4	19.3	19.7	19.8	20.1	20.5
8H	19.5	19.9	20.0	20.3	20.8	19.7	20.0	20.1	20.4	20.9
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.0 / - 0.9					+ 1.1 / - 0.9				
1.5H	+ 2.0 / - 0.8					+ 2.2 / - 0.7				
2.0H	+ 0.9 / - 0.4					+ 0.9 / - 0.4				

CIE Pub.117, 358.6 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = -3.6$ )  
Area: 0.001 m<sup>2</sup>

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25DEG  
Operators:SENPU  
Test Date:2025-06-26

$\gamma$  Range: 0 - 100DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.444  
Humidity:61%  
Test Distance:8.000m [K=1.0000]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:24.00V I:0.203A P:4.87W PF:1.000 Freq:0Hz Lamp Flux:358.566x1 lm		
NAME: DE12CTWWS 2700-6000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2025062603
MFR.:	SUR.:	Shielding Angle:

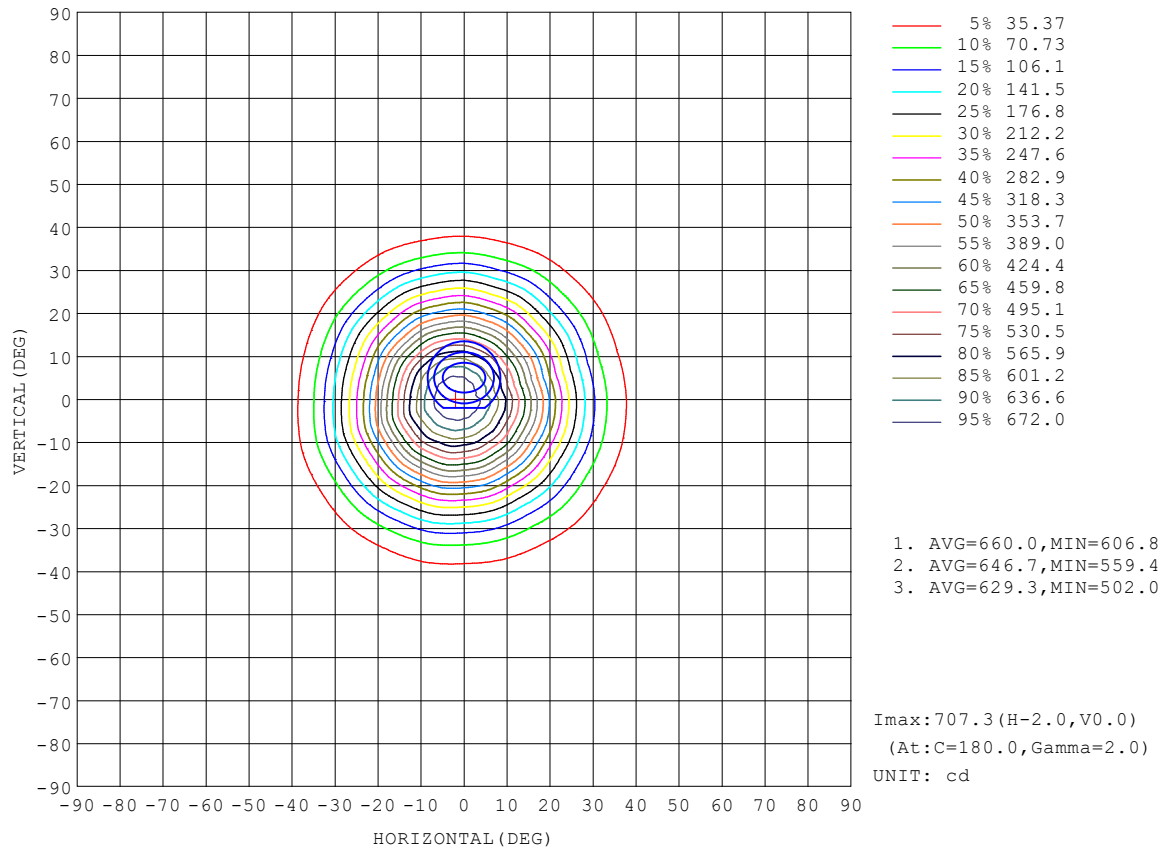
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	87	81	77	86	80	77	86	80	76	73
0.80	94	88	85	94	88	84	92	87	84	80
1.00	99	93	89	98	93	89	96	92	88	84
1.25	103	97	94	102	97	93	100	96	93	88
1.50	105	101	97	104	100	97	102	98	96	91
2.00	108	104	101	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	111	108	105	110	107	104	106	104	102	95
4.00	114	111	108	111	109	107	108	106	104	97
5.00	115	113	111	113	111	109	109	107	106	98
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25DEG  
 Operators: SENPU  
 Test Date: 2025-06-26

γ Range: 0 - 100DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.444  
 Humidity: 61%  
 Test Distance: 8.000m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

Test:U:24.00V I:0.203A P:4.87W PF:1.000 Freq:0Hz Lamp Flux:358.566x1 lm		
NAME: DE12CTWWS 2700-6000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2025062603
MFR.:	SUR.:	Shielding Angle:



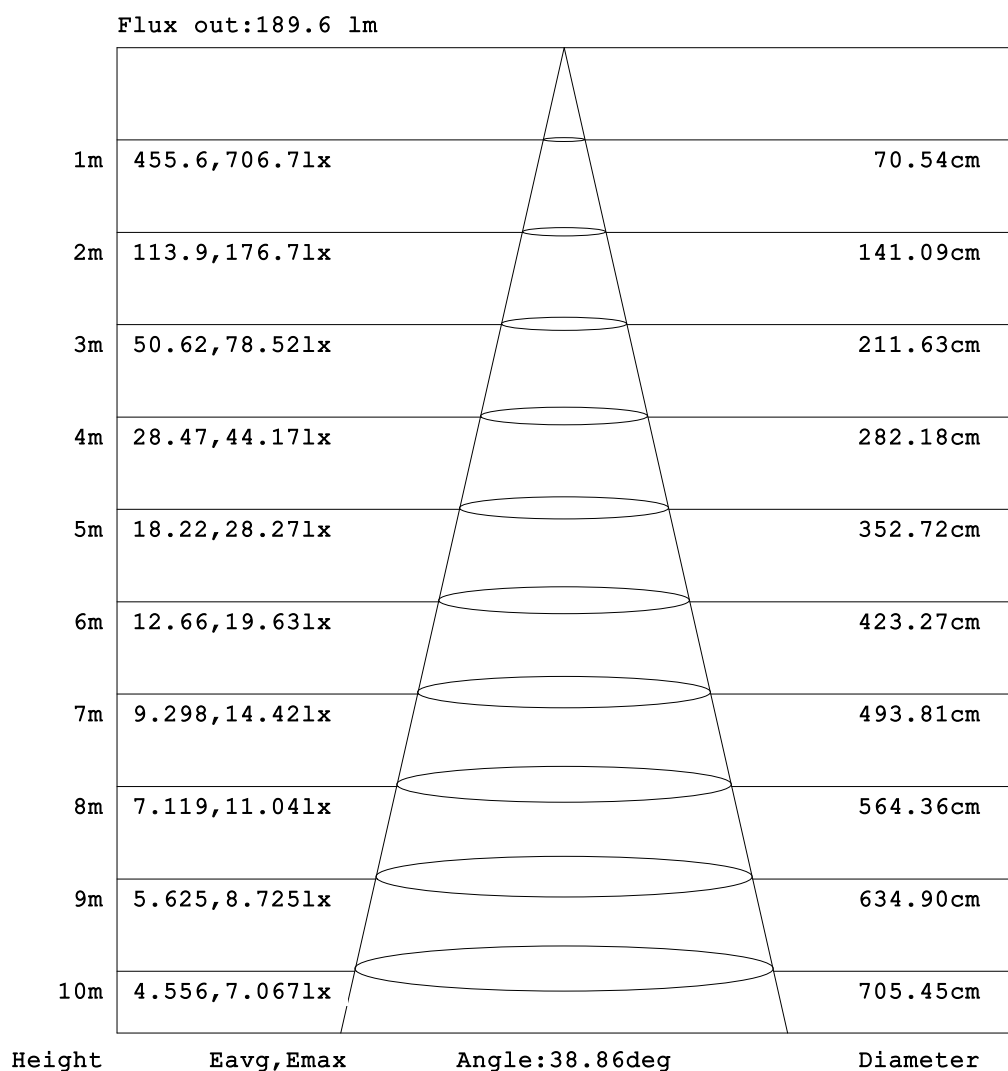
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25DEG  
Operators:SENPU  
Test Date:2025-06-26

$\gamma$  Range: 0 - 100DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.444  
Humidity:61%  
Test Distance:8.000m [K=1.0000]  
Remarks:



## AAI Figure

Test:U:24.00V I:0.203A P:4.87W PF:1.000 Freq:0Hz Lamp Flux:358.566x1 lm		
NAME: DE12CTWWS 2700-6000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2025062603
MFR.:	SUR.:	Shielding Angle:



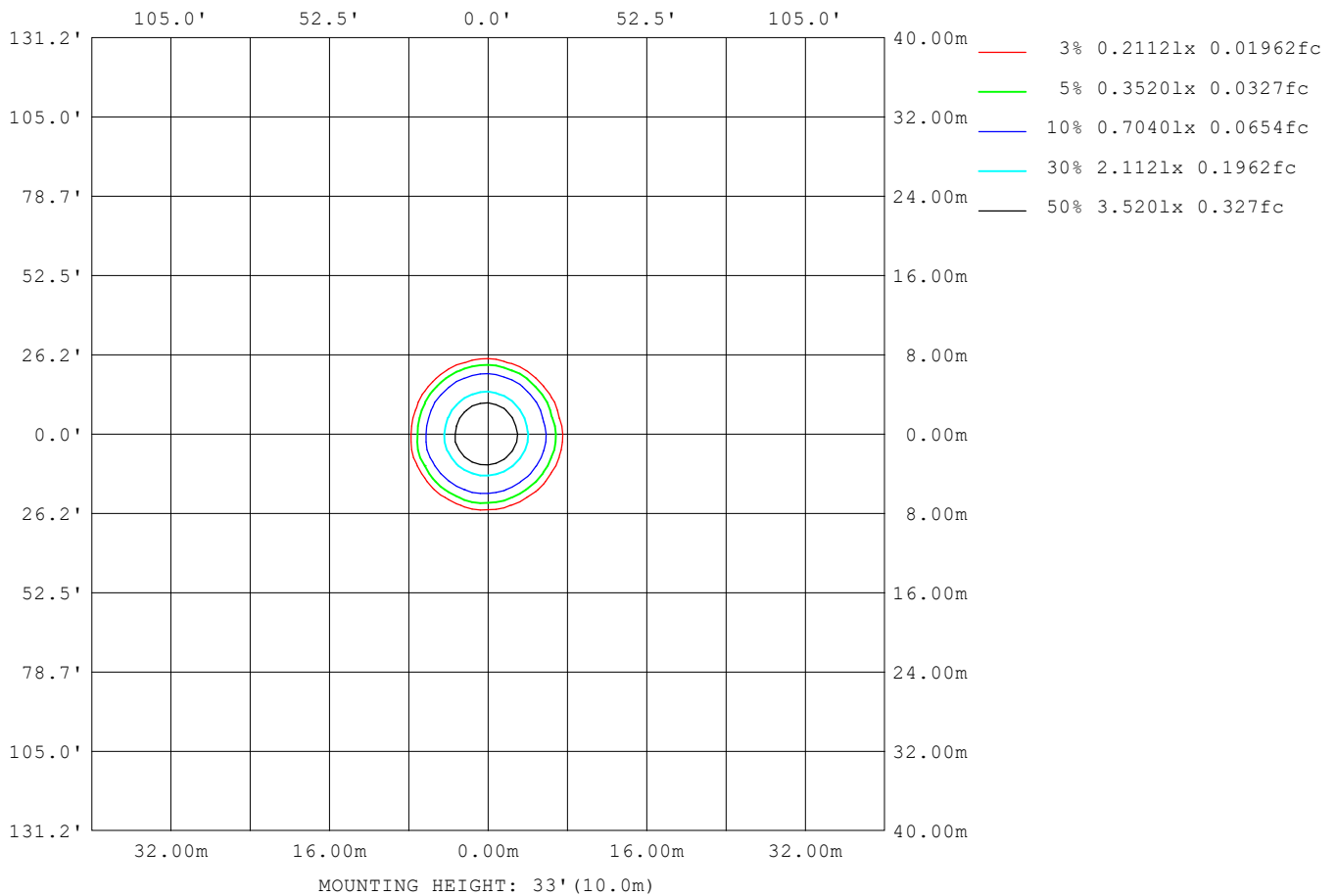
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25DEG  
Operators:SENPU  
Test Date:2025-06-26

γ Range: 0 - 100DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.444  
Humidity:61%  
Test Distance:8.000m [K=1.0000]  
Remarks:

## ISOLUX DIAGRAM

Test:U:24.00V I:0.203A P:4.87W PF:1.000 Freq:0Hz Lamp Flux:358.566x1 lm		
NAME: DE12CTWWS 2700-6000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2025062603
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25DEG  
Operators:SENPU  
Test Date:2025-06-26

$\gamma$  Range: 0 - 100DEG  
 $\gamma$  Interval: 1.0DEG  
 $\gamma$  Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.444  
Humidity:61%  
Test Distance:8.000m [K=1.0000]  
Remarks:

## LED Avg.L Report

Test:U:24.00V I:0.203A P:4.87W PF:1.000 Freq:0Hz Lamp Flux:358.566x1 lm		
NAME: DE12CTWWS 2700-6000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2025062603
MFR.:	SUR.:	Shielding Angle:

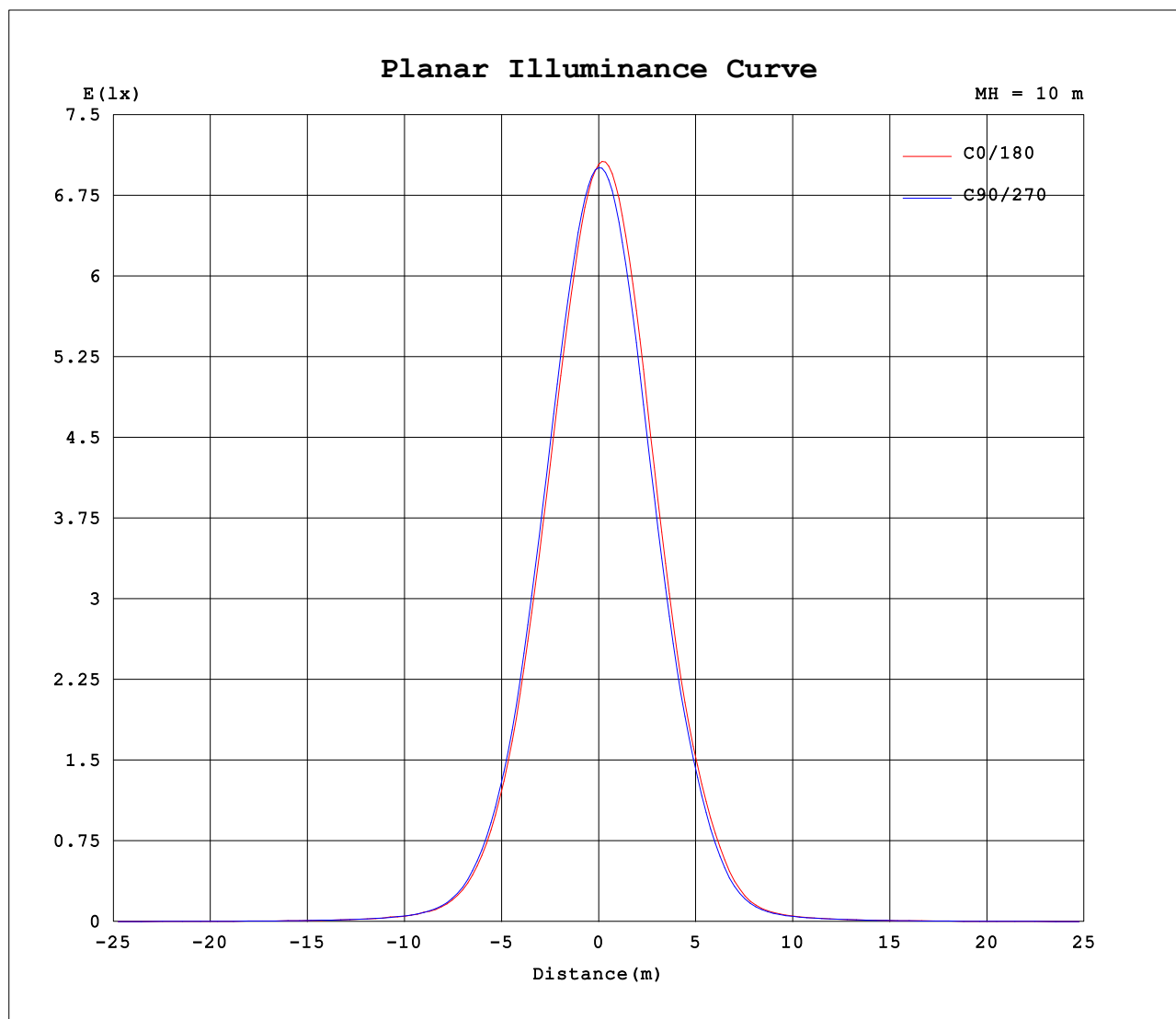
AvgL	cd/m2
L_0~180 (65) av	10653
L_0~180 (75) av	10104
L_0~180 (85) av	7046
L_90~270 (65) av	10632
L_90~270 (75) av	10121
L_90~270 (85) av	6951
L_45 (65) av	10575
L_45 (75) av	9077
L_45 (85) av	5427

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25DEG  
Operators:SENPU  
Test Date:2025-06-26

γ Range: 0 - 100DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.444  
Humidity:61%  
Test Distance:8.000m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25DEG  
Operators: SENPU  
Test Date: 2025-06-26

$\gamma$  Range: 0 - 100DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.444  
Humidity: 61%  
Test Distance: 8.000m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.203A P:4.87W PF:1.000 Freq:0Hz Lamp Flux:358.566x1 lm		
NAME: DE12CTWWS 2700-6000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2025062603
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	704	705	703	703	702	702	701	700	700	698	698	696	704	705	703	703	702	702	701
5	655	656	653	657	657	663	665	673	677	684	687	693	693	691	692	686	685	676	674
10	559	561	557	565	563	574	579	592	598	612	616	628	621	618	620	611	609	595	590
15	440	443	437	444	444	456	461	478	485	500	504	516	502	499	500	492	489	476	470
20	314	318	312	318	316	328	333	349	355	370	373	383	367	362	365	356	357	344	342
25	200	203	196	202	199	210	212	228	232	246	247	258	246	239	246	238	241	230	230
30	112	115	110	114	111	119	121	133	136	148	149	159	149	145	149	142	142	133	133
35	53.9	55.8	53.3	55.7	53.7	57.5	58.7	65.1	65.5	71.8	71.0	77.5	69.2	67.8	69.7	65.4	65.0	60.4	60.0
40	25.5	26.3	25.5	26.4	25.7	27.0	27.1	29.2	28.8	30.3	29.4	31.0	27.6	26.7	27.9	26.7	27.1	25.2	25.1
45	14.5	14.7	14.5	14.9	14.7	15.3	15.3	16.1	15.9	16.4	16.0	16.4	15.2	14.7	15.0	14.6	14.8	14.0	13.9
50	9.60	9.74	9.64	9.85	9.80	10.1	10.2	10.4	10.4	10.6	10.4	10.6	10.1	9.91	10.1	9.89	10.00	9.61	9.58
55	7.19	7.23	7.19	7.26	7.26	7.38	7.45	7.57	7.61	7.72	7.69	7.75	7.51	7.40	7.50	7.40	7.47	7.27	7.23
60	5.60	5.54	5.55	5.51	5.55	5.59	5.68	5.74	5.82	5.88	5.90	5.94	5.77	5.75	5.79	5.76	5.78	5.71	5.65
65	4.46	4.39	4.38	4.35	4.38	4.41	4.47	4.48	4.56	4.57	4.67	4.67	4.55	4.57	4.58	4.60	4.59	4.58	4.51
70	3.48	3.38	3.40	3.34	3.40	3.38	3.47	3.47	3.58	3.59	3.69	3.69	3.56	3.61	3.60	3.63	3.60	3.61	3.54
75	2.63	2.54	2.56	2.50	2.57	2.60	2.63	2.61	2.69	2.32	2.18	2.70	2.60	2.65	2.65	2.68	2.66	2.66	2.61
80	1.81	1.73	1.77	1.72	1.80	1.76	1.84	1.79	1.84	0.99	0.72	1.65	1.69	1.75	1.69	1.74	1.66	1.70	1.65
85	0.65	0.68	0.71	0.77	0.84	0.89	0.92	0.91	0.94	0.56	0.49	0.88	0.58	0.55	0.50	0.42	0.38	0.30	0.29
90	0.31	0.31	0.30	0.28	0.29	0.29	0.28	0.28	0.30	0.30	0.29	0.29	0.07	0.07	0.03	0.06	0.06	0.06	0.04
95	0.31	0.31	0.30	0.28	0.29	0.29	0.28	0.28	0.30	0.30	0.29	0.29	0.06	0.06	0.03	0.06	0.06	0.05	0.04
100	0.31	0.31	0.30	0.28	0.29	0.29	0.28	0.28	0.30	0.30	0.29	0.29	0.06	0.03	0.03	0.06	0.06	0.04	0.04
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25DEG  
Operators:SENPU  
Test Date:2025-06-26

γ Range: 0 - 100DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.444  
Humidity:61%  
Test Distance:8.000m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.203A P:4.87W PF:1.000 Freq:0Hz Lamp Flux:358.566x1 lm		
NAME: DE12CTWWS 2700-6000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2025062603
MFR.:	SUR.:	Shielding Angle:

Table--2

UNIT: cd

γ (DEG)	C (DEG)																		
	285	300	315	330	345														
0	700	700	698	698	696														
5	663	661	650	650	640														
10	575	570	557	555	544														
15	457	450	438	433	422														
20	328	325	312	309	296														
25	215	214	200	199	188														
30	122	122	112	111	104														
35	55.1	55.5	51.7	51.4	48.8														
40	23.5	23.8	22.9	23.7	23.1														
45	13.4	13.5	13.1	13.5	13.2														
50	9.27	9.33	9.11	9.24	9.11														
55	7.07	7.07	6.94	6.97	6.87														
60	5.58	5.53	5.45	5.41	5.37														
65	4.47	4.40	4.36	4.29	4.25														
70	3.55	3.42	3.41	3.33	3.31														
75	2.63	2.51	1.89	1.78	2.29														
80	1.68	1.61	0.81	0.52	1.36														
85	0.22	0.18	0.14	0.06	0.18														
90	0.07	0.07	0.09	0.05	0.08														
95	0.07	0.05	0.07	0.05	0.07														
100	0.06	0.05	0.05	0.05	0.06														
105	0.00	0.00	0.00	0.00	0.00														
110	0.00	0.00	0.00	0.00	0.00														
115	0.00	0.00	0.00	0.00	0.00														
120	0.00	0.00	0.00	0.00	0.00														
125	0.00	0.00	0.00	0.00	0.00														
130	0.00	0.00	0.00	0.00	0.00														
135	0.00	0.00	0.00	0.00	0.00														
140	0.00	0.00	0.00	0.00	0.00														
145	0.00	0.00	0.00	0.00	0.00														
150	0.00	0.00	0.00	0.00	0.00														
155	0.00	0.00	0.00	0.00	0.00														
160	0.00	0.00	0.00	0.00	0.00														
165	0.00	0.00	0.00	0.00	0.00														
170	0.00	0.00	0.00	0.00	0.00														
175	0.00	0.00	0.00	0.00	0.00														
180	0.00	0.00	0.00	0.00	0.00														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:SENPU  
 Test Date:2025-06-26

γ Range: 0 - 100DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.444  
 Humidity:61%  
 Test Distance:8.000m [K=1.0000]  
 Remarks: