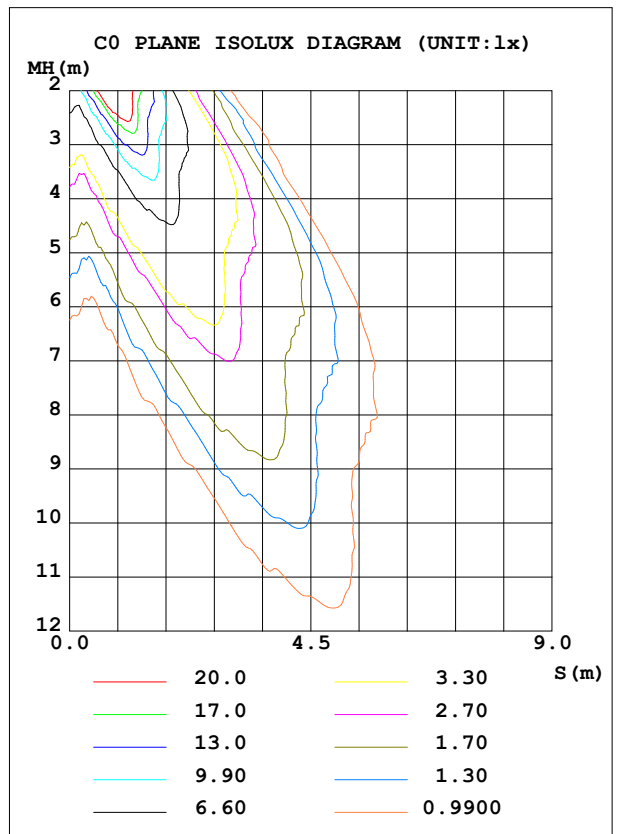
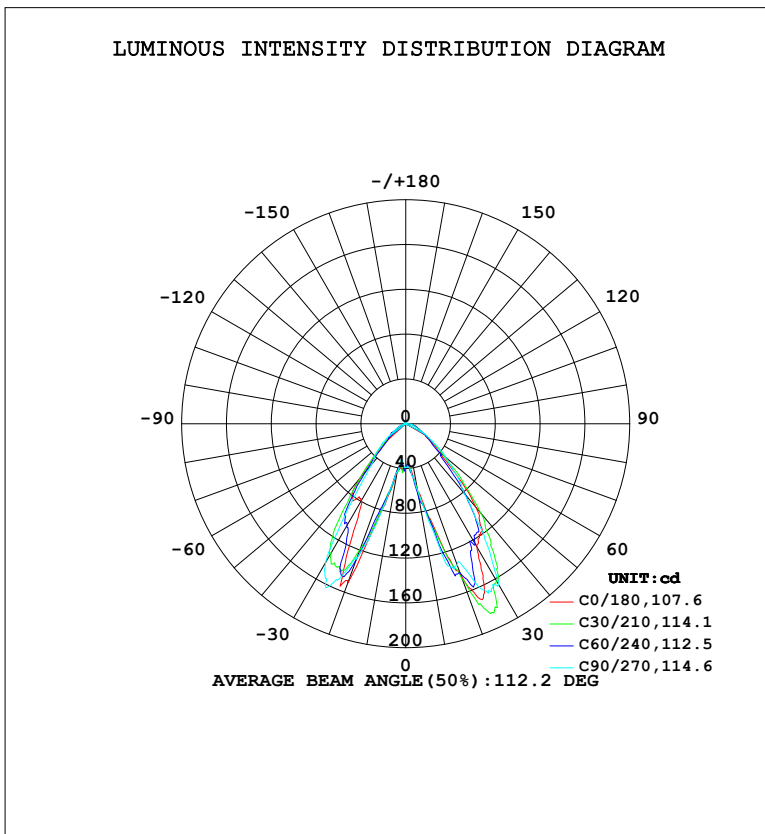


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:110.41V I:0.2135A P:20.369W PF:0.8642 Freq:60.01Hz Lamp Flux:241.162x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	HF7960-AB-PUR	Imax (cd)	186.4	S/MH (C0/180)	1.45
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.55
RATED VOLTAGE (V)	110	TOTAL FLUX (lm)	241.16	$\eta$ UP, DN (C0-180)	0.8, 58.6
NOMINAL FLUX (lm)	241.162	CIE CLASS	DIRECT	$\eta$ UP, DN (C180-360)	0.2, 40.4
LAMPS INSIDE	1	$\eta$ up (%)	1.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	110.394	$\eta$ down (%)	99.0	CIBSE SHR MAX	0.60



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.5°C  
 Operators: Dingmin Zhang  
 Test Date: 2025-11-25

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.463  
 Humidity: 65.0%  
 Test Distance: 30.000m [K=0.9305]  
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

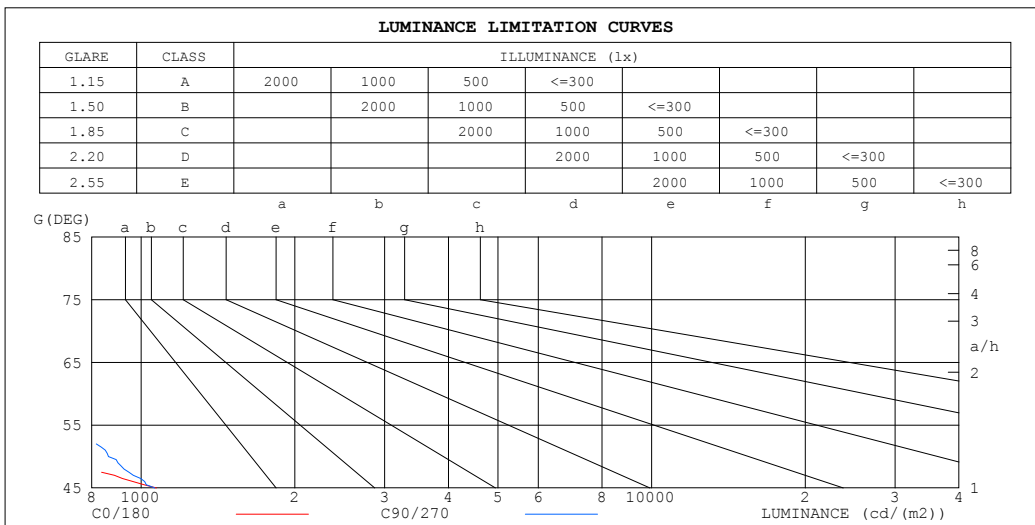
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	61.29	65.44	60.10	55.39	40.07	43.44	43.45	49.57	0- 10	4.000	4.000	1.66,1.66
20	144.1	129.5	134.7	148.7	151.4	121.6	128.7	152.3	10- 20	27.47	31.47	13,13
30	127.2	147.3	165.8	153.2	79.36	111.8	143.2	101.9	20- 30	67.01	98.47	40.8,40.8
40	97.93	82.73	80.75	102.9	64.36	58.12	47.79	69.24	30- 40	62.52	161.0	66.8,66.8
50	39.28	45.58	46.26	41.24	15.29	25.92	28.12	21.40	40- 50	39.60	200.6	83.2,83.2
60	18.80	19.17	21.43	20.80	5.856	7.273	9.558	8.289	50- 60	19.71	220.3	91.4,91.4
70	11.59	10.05	10.63	10.71	4.116	3.680	4.269	4.570	60- 70	9.947	230.3	95.5,95.5
80	7.535	6.280	5.519	5.768	0.9175	1.674	1.841	1.941	70- 80	5.967	236.2	98,98
90	3.195	2.679	2.086	2.338	0	0	0	0	80- 90	2.559	238.8	99,99
100	1.735	1.221	0.7533	0.6027	0	0	0	0	90-100	0.8679	239.7	99.4,99.4
110	0.6227	0.5022	0.3651	0.4150	0	0	0	0	100-110	0.3810	240.0	99.5,99.5
120	0.2883	0.0837	0	0	0	0	0	0	110-120	0.1093	240.1	99.6,99.6
130	0	0.0837	0.0837	0	0	0	0	0	120-130	0.0145	240.2	99.6,99.6
140	0	0	0.0837	0	0	0	0	0	130-140	0.0108	240.2	99.6,99.6
150	0.5640	0.2511	0.2158	0.4201	0	0	0	0	140-150	0.0223	240.2	99.6,99.6
160	2.587	2.340	1.842	1.682	1.624	1.673	2.088	2.253	150-160	0.3880	240.6	99.8,99.8
170	0.4377	0.8369	0.7534	1.080	0.0818	0.1655	0.0992	0.1060	160-170	0.5788	241.2	100,100
180	0	0	0	0	0	0	0	0	170-180	0.0070	241.2	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:24.5°C  
 Operators:Dingmin Zhang  
 Test Date:2025-11-25

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.463  
 Humidity:65.0%  
 Test Distance:30.000m [K=0.9305]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:110.41V I:0.2135A P:20.369W PF:0.8642 Freq:60.01Hz Lamp Flux:241.162x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	669	495
80	521	381
75	454	349
70	407	373
65	414	416
60	451	514
55	533	676
50	733	863
45	1071	1063

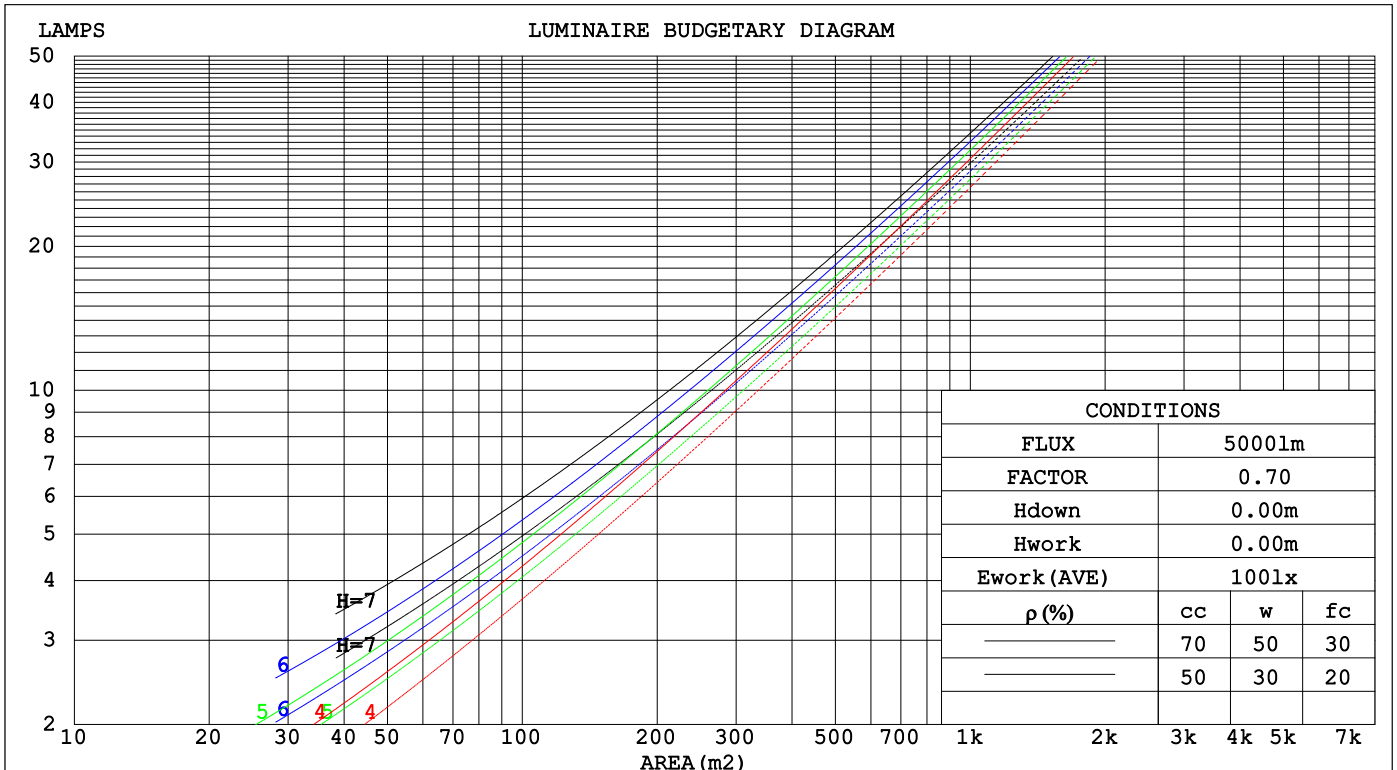
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.5°C  
 Operators: Dingmin Zhang  
 Test Date: 2025-11-25

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.463  
 Humidity: 65.0%  
 Test Distance: 30.000m [K=0.9305]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:110.41V I:0.2135A P:20.369W PF:0.8642 Freq:60.01Hz		
Lamp Flux:241.162x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
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	1.01	1.01	1.01	.99
1.0	1.07	1.04	1.00	1.05	1.02	.99	1.00	.98	.95	.96	.94	.92	.93	.91	.90	.87
2.0	.96	.91	.86	.94	.89	.85	.91	.86	.83	.87	.84	.81	.84	.81	.79	.77
3.0	.87	.80	.74	.85	.79	.74	.82	.77	.72	.79	.75	.71	.77	.73	.70	.68
4.0	.78	.71	.65	.77	.70	.65	.74	.68	.64	.72	.67	.63	.70	.66	.62	.60
5.0	.71	.63	.58	.70	.63	.57	.68	.61	.57	.66	.60	.56	.64	.59	.55	.53
6.0	.65	.57	.51	.64	.56	.51	.62	.55	.50	.60	.54	.50	.59	.54	.50	.48
7.0	.59	.51	.46	.58	.51	.46	.57	.50	.45	.55	.49	.45	.54	.49	.45	.43
8.0	.54	.46	.41	.53	.46	.41	.52	.46	.41	.51	.45	.40	.50	.44	.40	.38
9.0	.50	.42	.37	.49	.42	.37	.48	.42	.37	.47	.41	.37	.46	.40	.36	.35
10.0	.46	.39	.34	.45	.38	.34	.44	.38	.34	.43	.38	.33	.43	.37	.33	.32



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:24.5°C  
 Operators:Dingmin Zhang  
 Test Date:2025-11-25

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.463  
 Humidity:65.0%  
 Test Distance:30.000m [K=0.9305]  
 Remarks:

WEC AND CCEC

Test:U:110.41V I:0.2135A P:20.369W PF:0.8642 Freq:60.01Hz									
Lamp Flux:241.162x1 lm									
NAME:			TYPE:			WEIGHT:			
SPEC.:			DIM.:			SERIAL No.:			
MFR.:			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	.247	.140	.044	.239	.137	.043	.226	.130	.041	.213	.123	.040	.202	.117	.038	
2.0	.235	.129	.040	.229	.126	.039	.217	.121	.038	.207	.116	.036	.197	.111	.035	
3.0	.222	.118	.035	.217	.116	.035	.207	.112	.034	.197	.108	.033	.188	.104	.032	
4.0	.209	.109	.032	.205	.107	.032	.196	.104	.031	.187	.101	.030	.179	.097	.030	
5.0	.198	.101	.029	.193	.099	.029	.185	.096	.028	.178	.094	.028	.171	.091	.027	
6.0	.186	.093	.027	.183	.092	.027	.175	.090	.026	.169	.088	.026	.162	.086	.025	
7.0	.176	.087	.025	.173	.086	.025	.166	.084	.024	.160	.082	.024	.155	.080	.024	
8.0	.167	.082	.023	.164	.081	.023	.158	.079	.023	.153	.077	.022	.148	.076	.022	
9.0	.158	.077	.021	.156	.076	.021	.150	.074	.021	.146	.073	.021	.141	.072	.021	
10.0	.151	.072	.020	.148	.072	.020	.143	.070	.020	.139	.069	.020	.135	.068	.019	

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	.198	.198	.198	.169	.169	.169	.115	.115	.115	.066	.066	.066	.021	.021	.021	
1.0	.184	.164	.147	.157	.141	.126	.107	.097	.087	.062	.056	.051	.020	.018	.016	
2.0	.172	.140	.112	.148	.120	.097	.101	.083	.068	.058	.048	.040	.019	.016	.013	
3.0	.163	.122	.089	.140	.105	.077	.096	.073	.054	.055	.043	.032	.018	.014	.010	
4.0	.155	.108	.072	.133	.093	.062	.091	.065	.044	.053	.038	.026	.017	.012	.009	
5.0	.147	.097	.060	.127	.084	.052	.087	.059	.037	.051	.034	.022	.016	.011	.007	
6.0	.141	.088	.051	.121	.077	.044	.083	.054	.031	.048	.032	.019	.016	.010	.006	
7.0	.135	.081	.044	.116	.071	.038	.080	.049	.027	.047	.029	.016	.015	.010	.005	
8.0	.129	.076	.039	.111	.066	.034	.077	.046	.024	.045	.027	.014	.014	.009	.005	
9.0	.124	.071	.035	.107	.061	.030	.074	.043	.022	.043	.025	.013	.014	.008	.004	
10.0	.119	.066	.032	.102	.058	.028	.071	.041	.020	.041	.024	.012	.013	.008	.004	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:24.5°C  
 Operators:Dingmin Zhang  
 Test Date:2025-11-25

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.463  
 Humidity:65.0%  
 Test Distance:30.000m [K=0.9305]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:110.41V I:0.2135A P:20.369W PF:0.8642 Freq:60.01Hz										
Lamp Flux:241.162x1 lm										
NAME:			TYPE:			WEIGHT:				
SPEC.:			DIM.:			SERIAL No.:				
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	11.3	12.6	11.5	12.8	13.0	11.1	12.4	11.4	12.6	12.8
3H	11.8	12.9	12.1	13.2	13.4	11.6	12.8	11.9	13.0	13.2
4H	12.1	13.2	12.4	13.5	13.7	11.8	13.0	12.2	13.2	13.5
6H	12.5	13.6	12.9	13.8	14.1	12.1	13.2	12.5	13.4	13.7
8H	12.7	13.7	13.1	14.0	14.3	12.3	13.3	12.6	13.5	13.8
12H	13.0	13.9	13.3	14.2	14.6	12.4	13.4	12.8	13.7	14.0
4H 2H	11.3	12.4	11.6	12.7	13.0	11.2	12.3	11.5	12.6	12.9
3H	12.0	13.0	12.4	13.3	13.6	11.9	12.9	12.2	13.2	13.5
4H	12.5	13.4	12.9	13.7	14.1	12.3	13.2	12.7	13.5	13.9
6H	13.1	13.9	13.5	14.3	14.6	12.8	13.6	13.2	13.9	14.3
8H	13.5	14.2	13.9	14.5	14.9	13.0	13.7	13.4	14.1	14.5
12H	13.8	14.5	14.2	14.9	15.3	13.2	13.9	13.7	14.3	14.7
8H 4H	12.7	13.4	13.1	13.8	14.2	12.5	13.2	12.9	13.6	14.0
6H	13.5	14.1	13.9	14.5	14.9	13.1	13.7	13.6	14.1	14.6
8H	13.9	14.4	14.4	14.9	15.3	13.4	14.0	13.9	14.4	14.9
12H	14.4	14.9	14.9	15.3	15.8	13.8	14.3	14.3	14.7	15.2
12H 4H	12.7	13.3	13.1	13.7	14.2	12.5	13.1	12.9	13.5	14.0
6H	13.5	14.0	14.0	14.5	15.0	13.2	13.7	13.7	14.1	14.6
8H	14.0	14.5	14.5	14.9	15.4	13.6	14.0	14.1	14.5	15.0
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.7 / - 0.8					+ 0.8 / - 0.8				
1.5H	+ 0.7 / - 0.7					+ 1.1 / - 0.8				
2.0H	+ 1.4 / - 0.9					+ 2.0 / - 0.8				

CIE Pub.117, 241.2 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -4.9)  
 Area: 0.08335 m2

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:24.5°C  
 Operators:Dingmin Zhang  
 Test Date:2025-11-25

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.463  
 Humidity:65.0%  
 Test Distance:30.000m [K=0.9305]  
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:110.41V I:0.2135A P:20.369W PF:0.8642 Freq:60.01Hz Lamp Flux:241.162x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

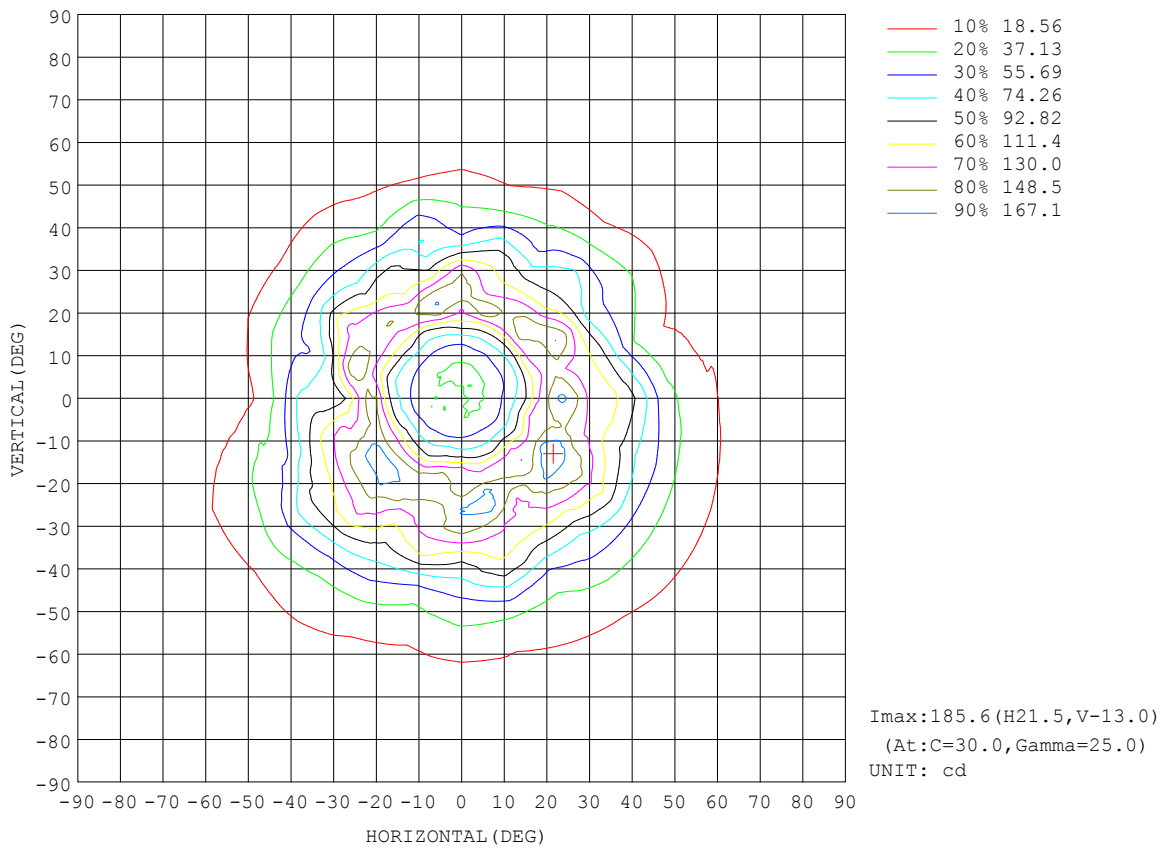
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) k(RI) x RCR = 5									
k = 0.60	71	61	56	70	61	56	69	61	56	50
0.80	80	71	65	79	71	65	78	70	65	59
1.00	87	79	73	86	78	73	84	79	72	67
1.25	93	85	80	92	85	79	89	83	79	73
1.50	97	90	85	95	89	84	93	87	83	77
2.00	102	96	91	100	94	90	97	92	88	82
2.50	104	99	94	103	97	93	99	95	91	84
3.00	107	102	98	105	100	97	101	97	94	87
4.00	110	105	102	107	104	101	103	100	98	90
5.00	111	108	105	109	106	103	105	102	100	91
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:24.5°C  
 Operators:Dingmin Zhang  
 Test Date:2025-11-25

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.463  
 Humidity:65.0%  
 Test Distance:30.000m [K=0.9305]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:110.41V I:0.2135A P:20.369W PF:0.8642 Freq:60.01Hz Lamp Flux:241.162x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

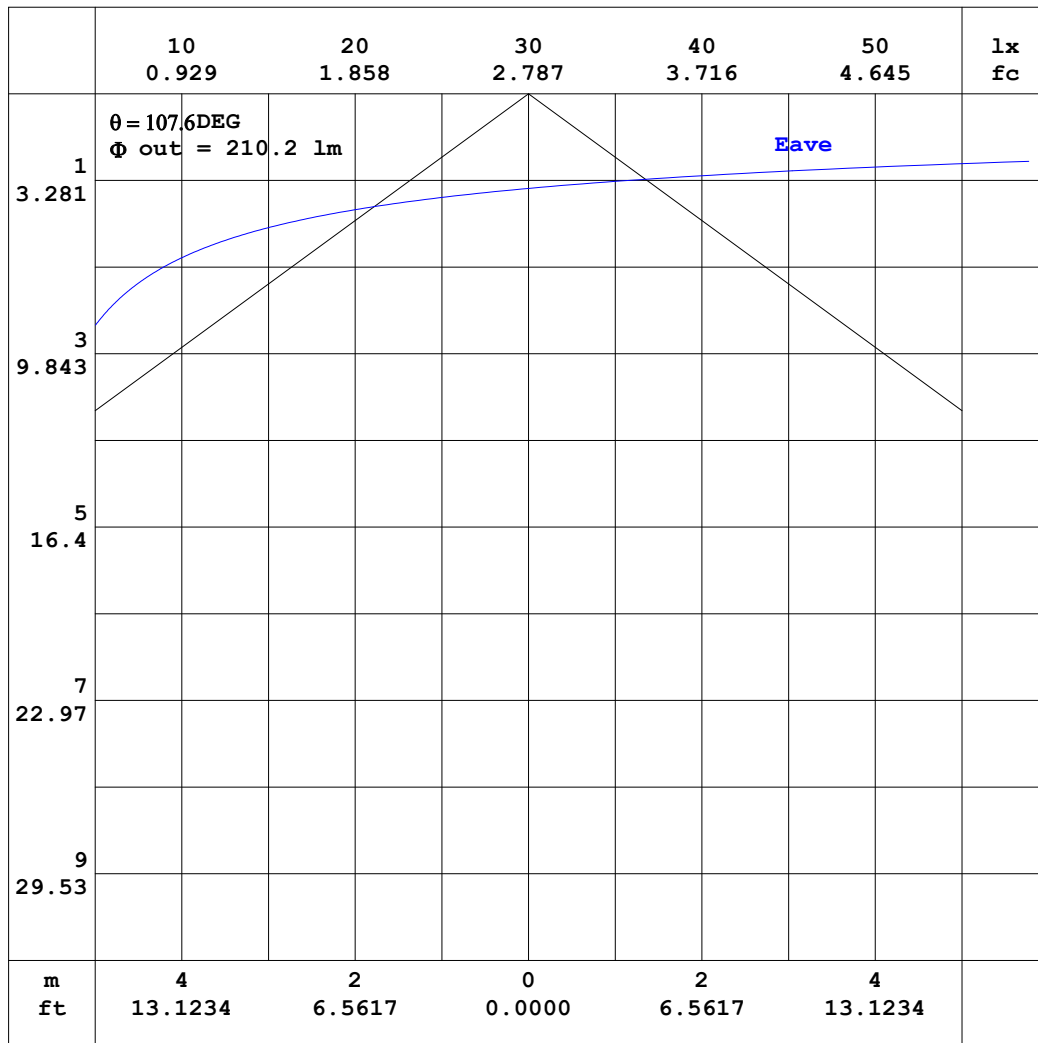


C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:24.5°C  
Operators:Dingmin Zhang  
Test Date:2025-11-25

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.463  
Humidity:65.0%  
Test Distance:30.000m [K=0.9305]  
Remarks:

AAI CURVES

Test:U:110.41V I:0.2135A P:20.369W PF:0.8642 Freq:60.01Hz Lamp Flux:241.162x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



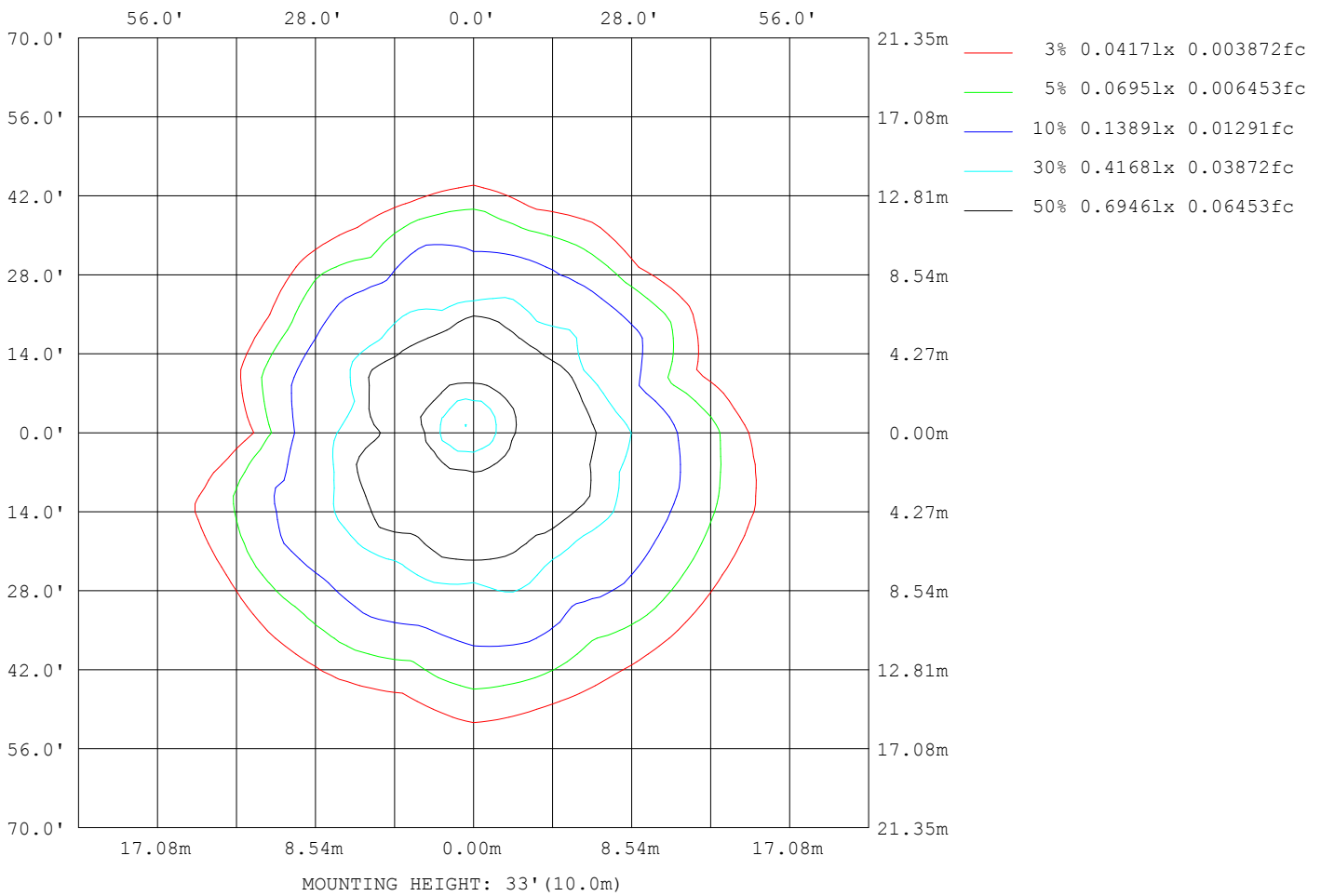
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.5°C  
 Operators: Dingmin Zhang  
 Test Date: 2025-11-25

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.463  
 Humidity: 65.0%  
 Test Distance: 30.000m [K=0.9305]  
 Remarks:

ISOLUX DIAGRAM

Test:U:110.41V I:0.2135A P:20.369W PF:0.8642 Freq:60.01Hz Lamp Flux:241.162x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:24.5°C  
 Operators:Dingmin Zhang  
 Test Date:2025-11-25

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.463  
 Humidity:65.0%  
 Test Distance:30.000m [K=0.9305]  
 Remarks:

## LED Avg.L Report

Test:U:110.41V I:0.2135A P:20.369W PF:0.8642 Freq:60.01Hz Lamp Flux:241.162x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

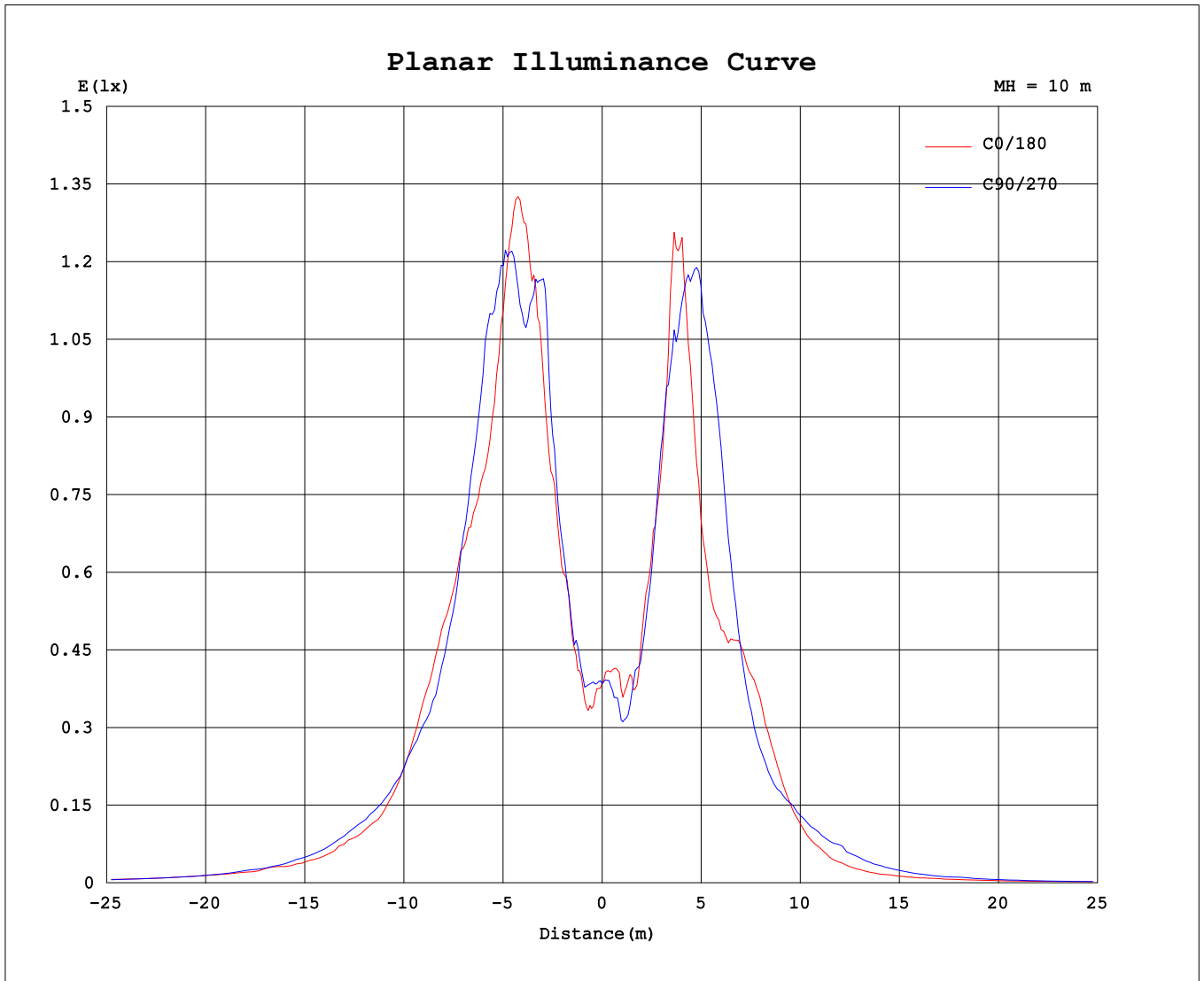
AvgL	cd/m2
L_0~180 (65) av	271
L_0~180 (75) av	276
L_0~180 (85) av	335
L_90~270 (65) av	293
L_90~270 (75) av	242
L_90~270 (85) av	309
L_45 (65) av	278
L_45 (75) av	257
L_45 (85) av	294

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:24.5°C  
Operators:Dingmin Zhang  
Test Date:2025-11-25

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.463  
Humidity:65.0%  
Test Distance:30.000m [K=0.9305]  
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 24.5°C  
Operators: Dingmin Zhang  
Test Date: 2025-11-25

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.463  
Humidity: 65.0%  
Test Distance: 30.000m [K=0.9305]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:110.41V I:0.2135A P:20.369W PF:0.8642 Freq:60.01Hz		
Lamp Flux:241.162x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
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	38.6	38.6	38.4	38.5	38.2	38.3	38.4	38.3	38.2	38.1	37.9	37.7	38.6	38.6	38.4	38.5	38.2	38.3	38.4
5	35.7	39.6	36.4	41.1	39.9	38.0	38.3	39.2	40.7	37.8	36.8	38.3	41.0	40.3	40.2	37.5	36.6	34.7	34.0
10	61.3	59.1	58.3	65.4	67.6	62.7	60.1	61.1	59.4	55.4	53.0	44.1	40.1	40.7	42.4	43.4	40.8	40.2	43.4
15	92.1	109	97.8	110	101	101	109	107	87.6	92.1	95.6	78.0	76.5	66.8	69.9	76.2	70.7	72.0	76.6
20	144	139	148	129	142	145	135	164	148	149	145	148	151	114	119	122	129	146	129
25	167	150	186	156	141	176	164	148	158	171	172	134	117	168	140	148	137	157	159
30	127	128	162	147	124	146	166	134	126	153	150	135	79.4	113	133	112	105	102	143
35	118	107	132	114	112	123	122	124	103	135	115	107	83.3	62.1	103	79.9	91.1	71.2	82.1
40	97.9	84.2	105	82.7	83.9	109	80.8	92.0	82.2	103	98.5	70.3	64.4	53.4	63.5	58.1	54.7	71.3	47.8
45	63.1	65.8	71.0	64.3	52.4	76.5	62.7	54.8	63.2	66.1	78.7	47.7	32.4	42.4	38.2	40.8	30.1	49.2	36.8
50	39.3	44.7	44.7	45.6	36.4	47.8	46.3	35.0	43.5	41.2	51.7	41.0	15.3	25.5	21.4	25.9	19.2	25.9	28.1
55	25.5	32.7	30.7	30.2	26.5	29.3	32.3	24.2	28.2	28.7	31.0	31.1	8.62	13.2	14.4	13.5	14.2	12.6	16.2
60	18.8	21.1	20.5	19.2	20.4	18.9	21.4	17.4	18.1	20.8	18.3	22.0	5.86	7.95	8.45	7.27	9.32	7.62	9.56
65	14.6	14.5	14.2	13.2	14.6	13.2	14.6	13.2	12.9	14.8	12.6	14.6	4.52	5.10	5.82	4.59	6.78	5.21	6.03
70	11.6	11.3	11.0	10.1	11.6	10.3	10.6	10.4	9.74	10.7	10.2	10.5	4.12	3.01	4.36	3.68	4.22	4.34	4.27
75	9.79	8.79	9.00	8.04	8.61	8.37	7.54	7.80	7.62	7.61	7.69	7.70	2.09	2.01	2.73	2.84	2.93	3.45	2.91
80	7.53	6.70	6.70	6.28	5.85	6.03	5.52	5.69	5.61	5.77	5.36	5.95	0.92	1.42	0.89	1.67	1.61	2.17	1.84
85	4.86	4.60	4.26	4.20	3.60	3.93	3.60	3.86	3.86	3.59	3.48	3.85	0.00	0.50	0.00	0.24	0.51	0.67	0.89
90	3.19	2.85	2.34	2.68	2.43	2.36	2.09	2.34	2.18	2.34	2.08	2.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	2.26	1.93	1.43	1.84	1.57	1.26	1.09	1.42	1.16	1.25	1.06	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	1.74	1.33	1.14	1.22	1.08	0.93	0.75	1.08	0.77	0.60	0.84	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	1.11	0.83	0.64	0.83	0.67	0.72	0.45	0.69	0.50	0.45	0.68	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.62	0.51	0.44	0.50	0.42	0.55	0.37	0.29	0.33	0.42	0.42	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.50	0.08	0.25	0.16	0.22	0.31	0.08	0.08	0.24	0.11	0.25	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.29	0.00	0.14	0.08	0.08	0.08	0.00	0.08	0.09	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	0.08	0.00	0.00	0.00	0.08	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	0.08	0.00	0.16	0.08	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	0.08	0.00	0.00	0.00	0.08	0.08	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	0.08	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.08	0.08	0.00	0.00	0.00	0.00	0.08	0.08	0.08	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.56	0.50	0.33	0.25	0.42	0.35	0.22	0.25	0.48	0.42	0.17	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	1.43	1.40	1.34	1.34	1.27	1.17	1.07	0.84	1.08	1.18	1.26	0.99	0.26	0.25	0.42	0.42	0.52	0.67	0.54
160	2.59	2.21	2.07	2.34	1.92	1.96	1.84	1.81	1.59	1.68	1.81	1.51	1.62	1.68	1.84	1.67	2.09	1.83	2.09
165	1.93	2.43	2.59	2.86	2.55	2.44	1.94	2.31	1.88	2.10	2.36	2.16	1.75	1.89	2.35	1.78	2.82	2.26	2.37
170	0.44	0.16	0.00	0.84	1.08	0.92	0.75	1.09	0.93	1.08	1.17	0.75	0.08	0.00	0.08	0.17	0.19	0.16	0.10
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:24.5°C  
 Operators:Dingmin Zhang  
 Test Date:2025-11-25

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.463  
 Humidity:65.0%  
 Test Distance:30.000m [K=0.9305]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:110.41V I:0.2135A P:20.369W PF:0.8642 Freq:60.01Hz		
Lamp Flux:241.162x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) \ γ (DEG)	285	300	315	330	345														
0	38.3	38.2	38.1	37.9	37.7														
5	33.4	32.3	34.3	33.7	37.5														
10	43.5	45.0	49.6	50.8	54.5														
15	77.7	81.6	82.5	86.7	88.3														
20	150	141	152	133	132														
25	130	137	144	165	132														
30	113	101	102	130	114														
35	98.0	72.1	89.4	67.1	92.3														
40	64.9	50.3	69.2	53.6	51.5														
45	35.8	36.8	39.8	47.5	26.1														
50	20.1	23.3	21.4	30.0	18.1														
55	11.2	14.7	12.6	16.8	13.2														
60	7.36	8.20	8.29	8.29	8.80														
65	5.28	5.27	6.53	5.18	6.53														
70	4.94	3.94	4.57	3.91	5.19														
75	4.02	2.76	3.72	3.46	3.05														
80	2.51	1.76	1.94	2.22	1.59														
85	0.48	0.91	0.52	0.59	0.50														
90	0.00	0.08	0.00	0.00	0.00														
95	0.00	0.00	0.00	0.00	0.00														
100	0.00	0.00	0.00	0.00	0.00														
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	0.69	0.65	0.58	0.66	0.75														
160	1.93	2.01	2.25	2.01	2.18														
165	2.01	2.76	2.68	2.46	2.59														
170	0.01	0.16	0.11	0.01	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:24.5°C  
 Operators:Dingmin Zhang  
 Test Date:2025-11-25

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.463  
 Humidity:65.0%  
 Test Distance:30.000m [K=0.9305]  
 Remarks: