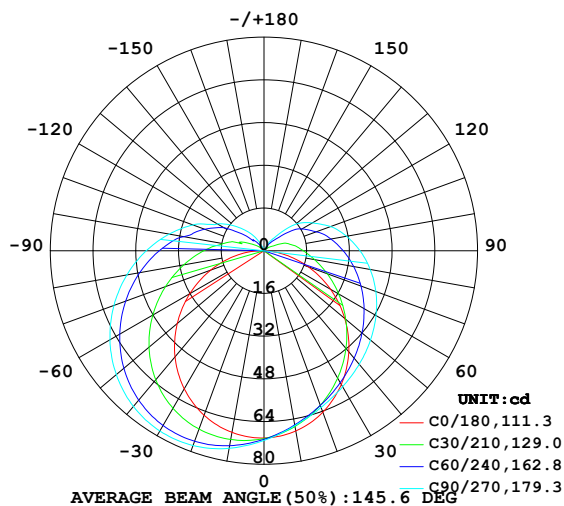


## LUMINAIRE PHOTOMETRIC TEST REPORT

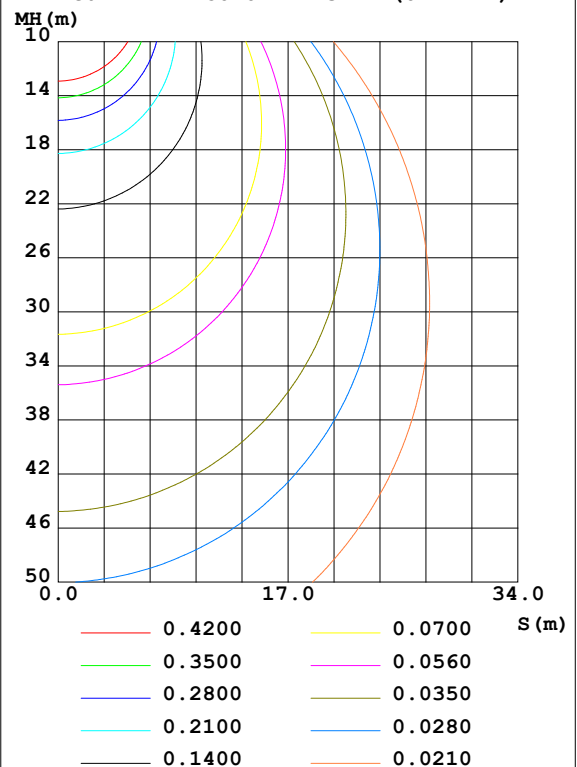
Test:U:220.50V I:0.0520A P:10.500W PF:0.9090 Freq:50.00Hz Lamp Flux:358.042x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1000*12mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 34.10 lm/W			
MS-N283530-120-220V-9W-08F5-80-816		Imax(cd)	78.11	S/MH(C0/180)	1.27
NOMINAL POWER(W)	9	LOR(%)	100.0	S/MH(C90/270)	1.64
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	358.04	$\eta$ UP,DN(C0-180)	8.8,35.6
NOMINAL FLUX(lm)	358.042	CIE CLASS	SEMI-D.	$\eta$ UP,DN(C180-360)	9.9,45.7
LAMPS INSIDE	1	$\eta$ up(%)	18.7	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	220	$\eta$ down(%)	81.3	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Qin Meng  
Test Date:2025-05-14

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
Humidity:65.0%  
Test Distance:8.580m [K=1.0000]  
Remarks: MS-N283530-120-220V-9W-08F5-80-816

## ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	68.52	66.50	66.55	68.22	69.06	73.12	75.10	73.69	0- 10	6.743	6.743	1.88,1.88
20	64.35	61.49	62.48	63.50	65.58	73.80	77.62	73.57	10- 20	19.59	26.33	7.35,7.35
30	57.90	55.96	58.86	58.08	59.72	72.29	77.96	71.21	20- 30	30.57	56.90	15.9,15.9
40	49.43	50.05	55.50	52.24	51.85	68.61	76.11	66.76	30- 40	38.66	95.56	26.7,26.7
50	39.51	44.04	52.07	46.24	42.42	63.08	72.20	60.60	40- 50	43.21	138.8	38.8,38.8
60	28.73	38.12	48.46	40.33	32.04	56.14	66.61	53.14	50- 60	44.05	182.8	51.1,51.1
70	17.70	32.51	44.58	34.72	21.24	48.28	59.76	45.07	60- 70	41.57	224.4	62.7,62.7
80	7.137	27.46	40.40	29.56	10.83	40.07	52.14	36.85	70- 80	36.57	261.0	72.9,72.9
90	0	23.02	35.97	25.01	0.8598	32.10	44.13	29.06	80- 90	30.20	291.2	81.3,81.3
100	0	19.28	31.41	21.14	0	23.79	36.06	22.05	90-100	23.99	315.2	88,88
110	0	15.17	26.59	16.99	0	17.96	28.35	16.08	100-110	18.11	333.3	93.1,93.1
120	0	10.88	20.90	10.59	0	9.154	20.14	11.15	110-120	12.46	345.7	96.6,96.6
130	0	4.831	15.54	5.317	0	5.214	14.49	6.644	120-130	7.511	353.2	98.7,98.7
140	0	1.932	7.232	1.245	0	2.192	9.235	3.088	130-140	3.533	356.8	99.6,99.6
150	0	0	3.029	0	0	0.2664	4.230	0.1272	140-150	1.148	357.9	100,100
160	0	0	0	0	0	0	0	0	150-160	0.1335	358.0	100,100
170	0	0	0	0	0	0	0	0	160-170	0	358.0	100,100
180	0	0	0	0	0	0	0	0	170-180	0	358.0	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 116.83 lm

%lum = 32.6%

%lamp = 32.6%

Conical surface Flux(120deg): 182.82 lm

%lum = 51.1%

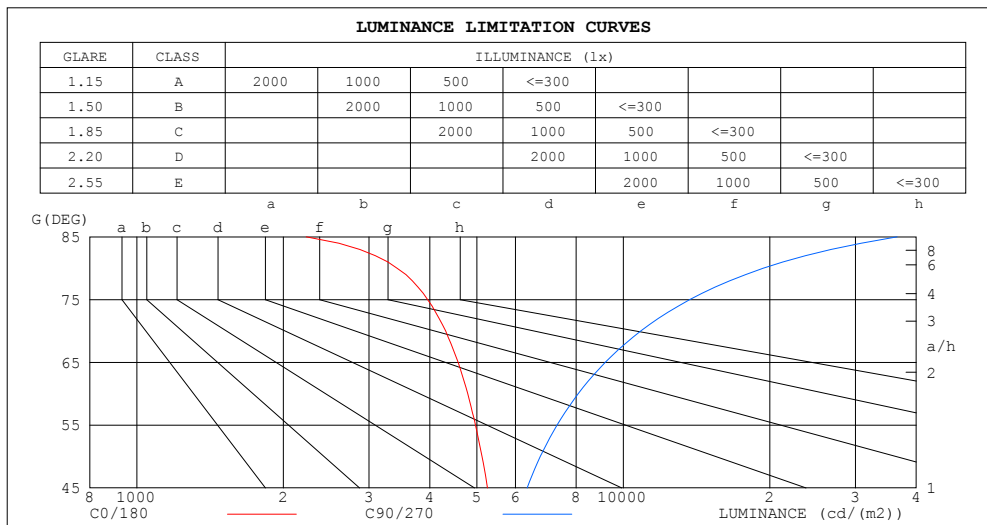
%lamp = 51.1%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Qin Meng  
 Test Date:2025-05-14

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:8.580m [K=1.0000]  
 Remarks: MS-N283530-120-220V-9W-08F5-80-816

## LUMINANCE LIMITATION CURVES

Test:U:220.50V I:0.0520A P:10.500W PF:0.9090 Freq:50.00Hz Lamp Flux:358.042x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1000*12mm	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2229	36551
80	3425	19387
75	3959	13696
70	4312	10861
65	4575	9179
60	4788	8077
55	4967	7308
50	5122	6750
45	5257	6342

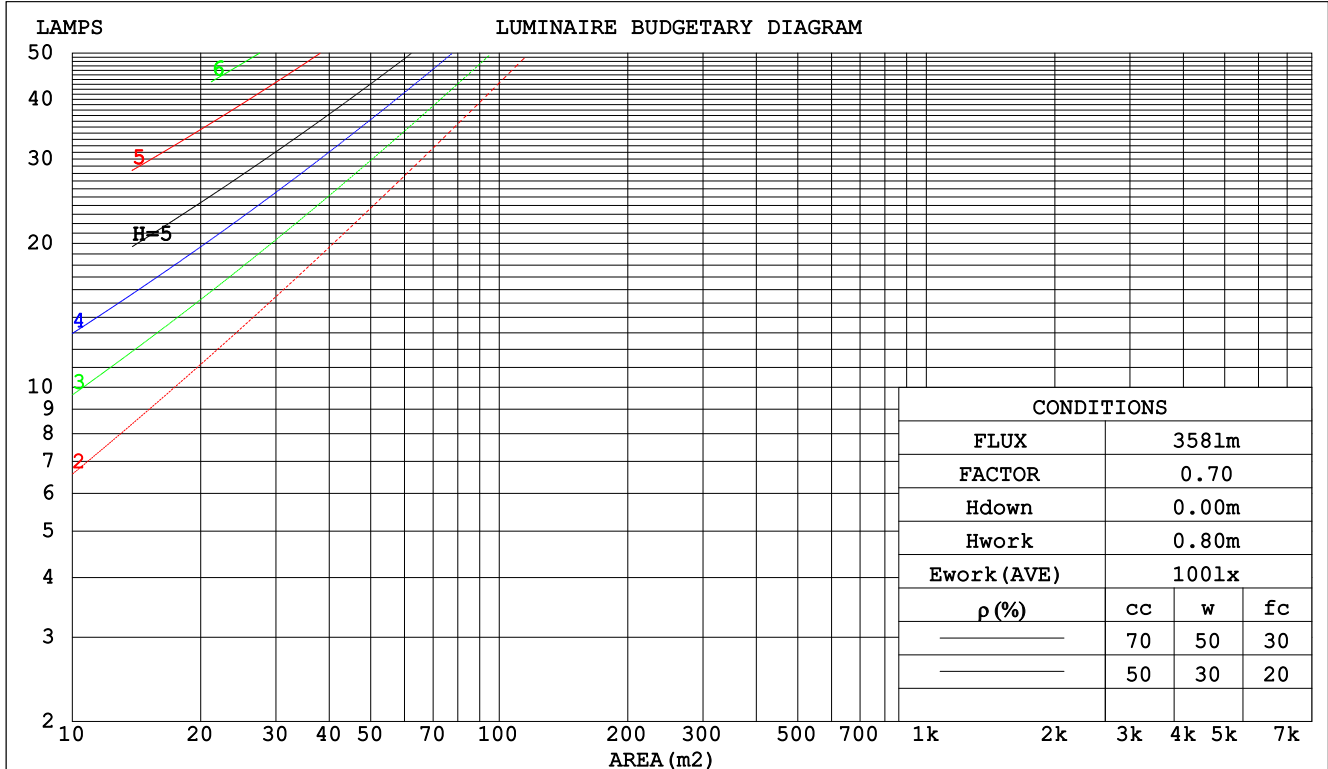
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Qin Meng  
Test Date:2025-05-14

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
Humidity:65.0%  
Test Distance:8.580m [K=1.0000]  
Remarks: MS-N283530-120-220V-9W-08F5-80-816

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.50V I:0.0520A P:10.500W PF:0.9090 Freq:50.00Hz Lamp Flux:358.042x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1000*12mm	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	1.15	1.15	1.15	1.10	1.10	1.10	1.01	1.01	1.01	.92	.92	.92	.85	.85	.85	.81
1.0	.95	.89	.84	.91	.85	.81	.83	.79	.75	.76	.72	.69	.69	.66	.64	.60
2.0	.81	.73	.66	.77	.70	.64	.70	.64	.59	.64	.59	.55	.58	.55	.51	.48
3.0	.70	.61	.53	.67	.58	.51	.61	.54	.48	.56	.50	.45	.51	.46	.42	.39
4.0	.61	.51	.44	.58	.50	.43	.54	.46	.40	.49	.43	.38	.45	.39	.35	.32
5.0	.54	.44	.37	.52	.43	.36	.48	.40	.34	.44	.37	.32	.40	.34	.30	.27
6.0	.48	.39	.32	.46	.38	.31	.43	.35	.29	.39	.33	.28	.36	.30	.26	.23
7.0	.44	.34	.28	.42	.33	.27	.39	.31	.26	.36	.29	.24	.33	.27	.23	.21
8.0	.40	.31	.25	.38	.30	.24	.35	.28	.23	.32	.26	.22	.30	.24	.20	.18
9.0	.36	.28	.22	.35	.27	.21	.32	.25	.20	.30	.24	.19	.28	.22	.18	.16
10.0	.33	.25	.20	.32	.24	.19	.30	.23	.18	.28	.22	.17	.26	.20	.16	.15



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Qin Meng  
Test Date:2025-05-14

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
Humidity:65.0%  
Test Distance:8.580m [K=1.0000]  
Remarks: MS-N283530-120-220V-9W-08F5-80-816

### WEC AND CCEC

Test:U:220.50V I:0.0520A P:10.500W PF:0.9090 Freq:50.00Hz Lamp Flux:358.042x1 lm					
NAME:		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.:	
MFR.:		SUR.:1000*12mm		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	.400	.228	.072	.387	.221	.070	.363	.208	.066	.341	.196	.063	.320	.185	.060	
2.0	.343	.188	.058	.331	.182	.056	.309	.172	.053	.289	.162	.051	.270	.153	.048	
3.0	.303	.161	.048	.292	.156	.047	.272	.148	.045	.254	.139	.043	.237	.131	.041	
4.0	.271	.141	.041	.262	.137	.040	.244	.129	.039	.227	.122	.037	.211	.115	.035	
5.0	.246	.125	.036	.237	.122	.035	.221	.115	.034	.206	.109	.032	.191	.102	.031	
6.0	.225	.113	.032	.217	.110	.032	.202	.104	.030	.188	.098	.029	.175	.092	.027	
7.0	.207	.102	.029	.200	.100	.028	.186	.094	.027	.173	.089	.026	.161	.084	.025	
8.0	.192	.094	.026	.185	.091	.026	.173	.086	.025	.161	.081	.023	.150	.077	.022	
9.0	.178	.086	.024	.172	.084	.024	.161	.080	.023	.150	.075	.022	.140	.071	.021	
10.0	.167	.080	.022	.161	.078	.022	.151	.074	.021	.141	.070	.020	.131	.066	.019	

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	.333	.333	.333	.284	.284	.284	.194	.194	.194	.112	.112	.112	.036	.036	.036	
1.0	.330	.299	.271	.282	.256	.233	.193	.176	.161	.111	.102	.094	.036	.033	.030	
2.0	.323	.276	.236	.277	.238	.204	.190	.164	.142	.109	.096	.084	.035	.031	.027	
3.0	.316	.260	.215	.271	.224	.186	.186	.156	.131	.107	.091	.077	.035	.030	.025	
4.0	.308	.247	.201	.264	.214	.175	.182	.149	.123	.105	.087	.073	.034	.028	.024	
5.0	.300	.238	.191	.258	.206	.166	.178	.144	.117	.103	.084	.070	.033	.028	.023	
6.0	.293	.230	.184	.252	.199	.161	.174	.139	.114	.101	.082	.068	.033	.027	.022	
7.0	.286	.223	.179	.246	.193	.156	.170	.136	.111	.099	.080	.066	.032	.026	.022	
8.0	.279	.218	.175	.240	.189	.153	.166	.132	.108	.097	.078	.065	.031	.026	.021	
9.0	.273	.213	.172	.235	.185	.150	.163	.130	.107	.095	.077	.064	.031	.025	.021	
10.0	.267	.209	.170	.230	.181	.148	.159	.127	.105	.093	.075	.063	.030	.025	.021	

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Qin Meng  
Test Date:2025-05-14

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
Humidity:65.0%  
Test Distance:8.580m [K=1.0000]  
Remarks: MS-N283530-120-220V-9W-08F5-80-816

### UGR(Unified Glare Rating) Table

Test:U:220.50V I:0.0520A P:10.500W PF:0.9090 Freq:50.00Hz Lamp Flux:358.042x1 lm											
NAME:			TYPE:			WEIGHT:					
SPEC.:			DIM.:			SERIAL No.:					
MFR.:			SUR.:1000*12mm			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	2H	16.0	17.4	16.5	17.9	18.5	18.5	19.9	19.0	20.4	21.0
	3H	17.5	18.8	18.0	19.3	20.0	21.4	22.7	22.0	23.2	23.9
	4H	18.1	19.3	18.7	19.9	20.5	23.0	24.3	23.6	24.8	25.5
	6H	18.6	19.7	19.2	20.3	21.0	24.8	26.0	25.4	26.6	27.3
	8H	18.7	19.8	19.3	20.4	21.1	25.8	27.0	26.4	27.6	28.2
	12H	18.8	19.9	19.4	20.5	21.2	27.0	28.1	27.6	28.7	29.4
4H	2H	17.2	18.5	17.8	19.0	19.7	19.0	20.2	19.6	20.8	21.5
	3H	19.0	20.1	19.6	20.7	21.4	22.2	23.3	22.8	23.9	24.6
	4H	19.8	20.8	20.4	21.4	22.1	24.0	25.0	24.7	25.6	26.4
	6H	20.4	21.3	21.1	22.0	22.7	26.1	27.0	26.7	27.6	28.4
	8H	20.6	21.5	21.3	22.1	22.9	27.2	28.0	27.9	28.7	29.5
	12H	20.8	21.6	21.5	22.2	23.0	28.5	29.3	29.2	30.0	30.8
8H	4H	21.1	21.9	21.7	22.6	23.4	24.4	25.2	25.0	25.9	26.6
	6H	22.1	22.8	22.8	23.5	24.4	26.7	27.4	27.4	28.1	28.9
	8H	22.6	23.2	23.3	23.9	24.8	28.1	28.7	28.8	29.4	30.3
	12H	22.9	23.5	23.7	24.2	25.1	29.7	30.2	30.4	31.0	31.8
12H	4H	21.5	22.3	22.2	23.0	23.8	24.4	25.1	25.1	25.8	26.6
	6H	22.9	23.5	23.6	24.2	25.0	26.8	27.5	27.6	28.2	29.0
	8H	23.5	24.1	24.3	24.8	25.7	28.3	28.9	29.0	29.6	30.5
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1					
1.5H	+ 0.1 / - 0.2					+ 0.2 / - 0.3					
2.0H	+ 0.2 / - 0.3					+ 0.3 / - 0.4					

CIE Pub.117, 358.0 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -3.6)  
Area: 0.012 m2

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Qin Meng  
Test Date:2025-05-14

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
Humidity:65.0%  
Test Distance:8.580m [K=1.0000]  
Remarks: MS-N283530-120-220V-9W-08F5-80-816

### UTILIZATION FACTORS TABLE

Test:U:220.50V I:0.0520A P:10.500W PF:0.9090 Freq:50.00Hz Lamp Flux:358.042x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1000*12mm	Shielding Angle:

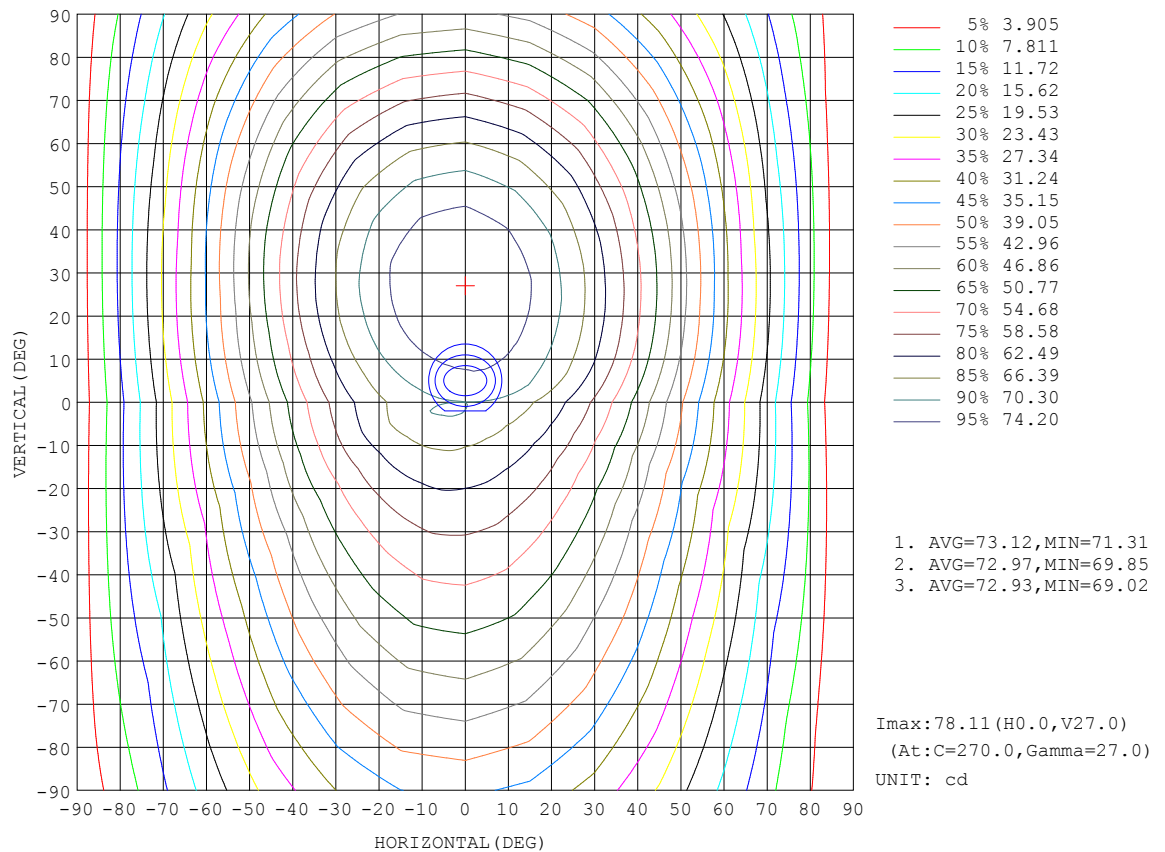
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	47	34	27	45	33	26	44	33	26	19
0.80	56	42	34	54	42	34	51	40	33	25
1.00	63	50	41	61	49	41	58	50	40	31
1.25	70	57	48	68	56	47	64	53	46	36
1.50	75	63	54	73	61	53	68	58	51	40
2.00	83	71	62	80	69	61	74	65	58	47
2.50	87	77	68	84	74	67	78	70	63	50
3.00	91	81	73	87	79	72	81	74	68	54
4.00	96	88	81	92	84	78	85	79	73	59
5.00	99	92	85	95	88	83	87	82	77	62
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:25.3DEG  
Operators:Qin Meng  
Test Date:2025-05-14

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
Humidity:65.0%  
Test Distance:8.580m [K=1.0000]  
Remarks: MS-N283530-120-220V-9W-08F5-80-816

## ISOCANDELA DIAGRAM

Test:U:220.50V I:0.0520A P:10.500W PF:0.9090 Freq:50.00Hz Lamp Flux:358.042x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1000*12mm	Shielding Angle:

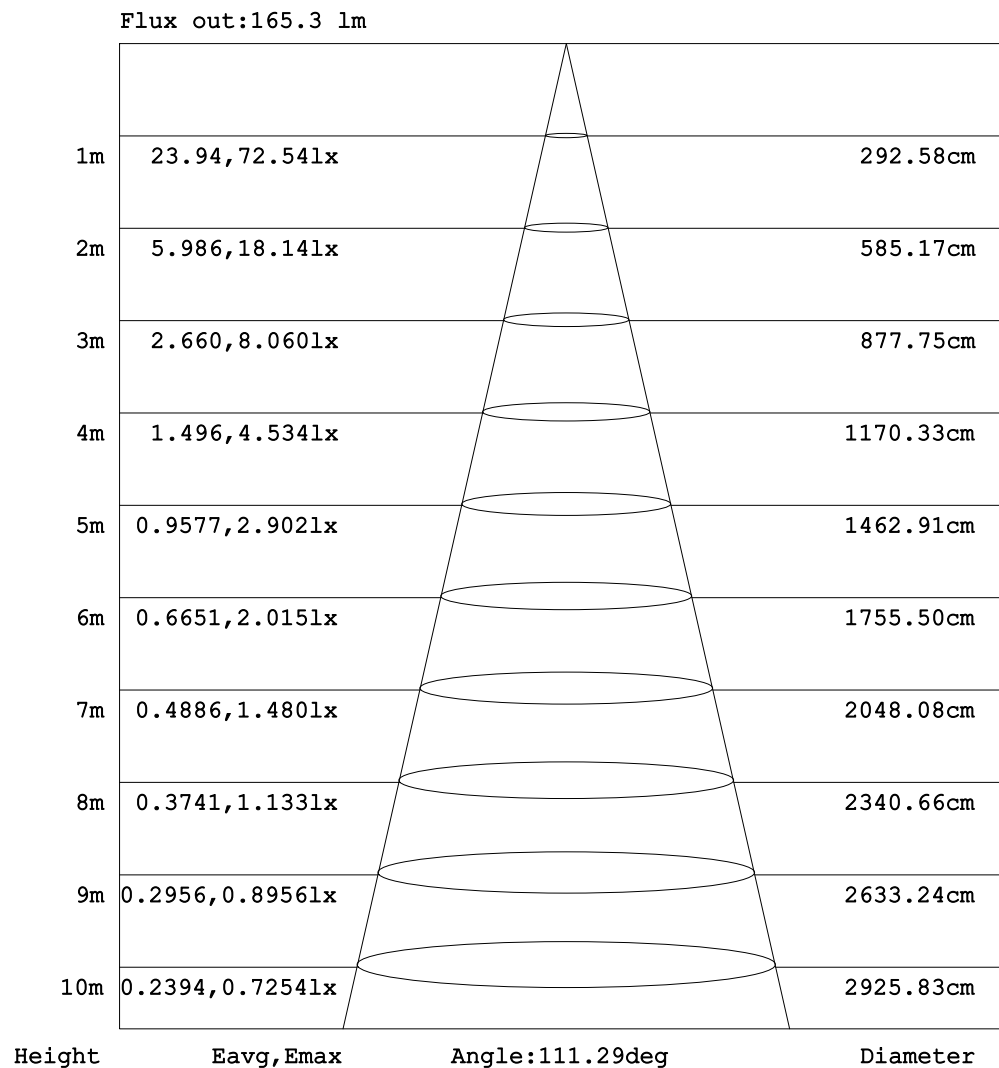


C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Qin Meng  
Test Date:2025-05-14

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
Humidity:65.0%  
Test Distance:8.580m [K=1.0000]  
Remarks: MS-N283530-120-220V-9W-08F5-80-816

### AAI Figure

Test:U:220.50V I:0.0520A P:10.500W PF:0.9090 Freq:50.00Hz Lamp Flux:358.042x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1000*12mm	Shielding Angle:



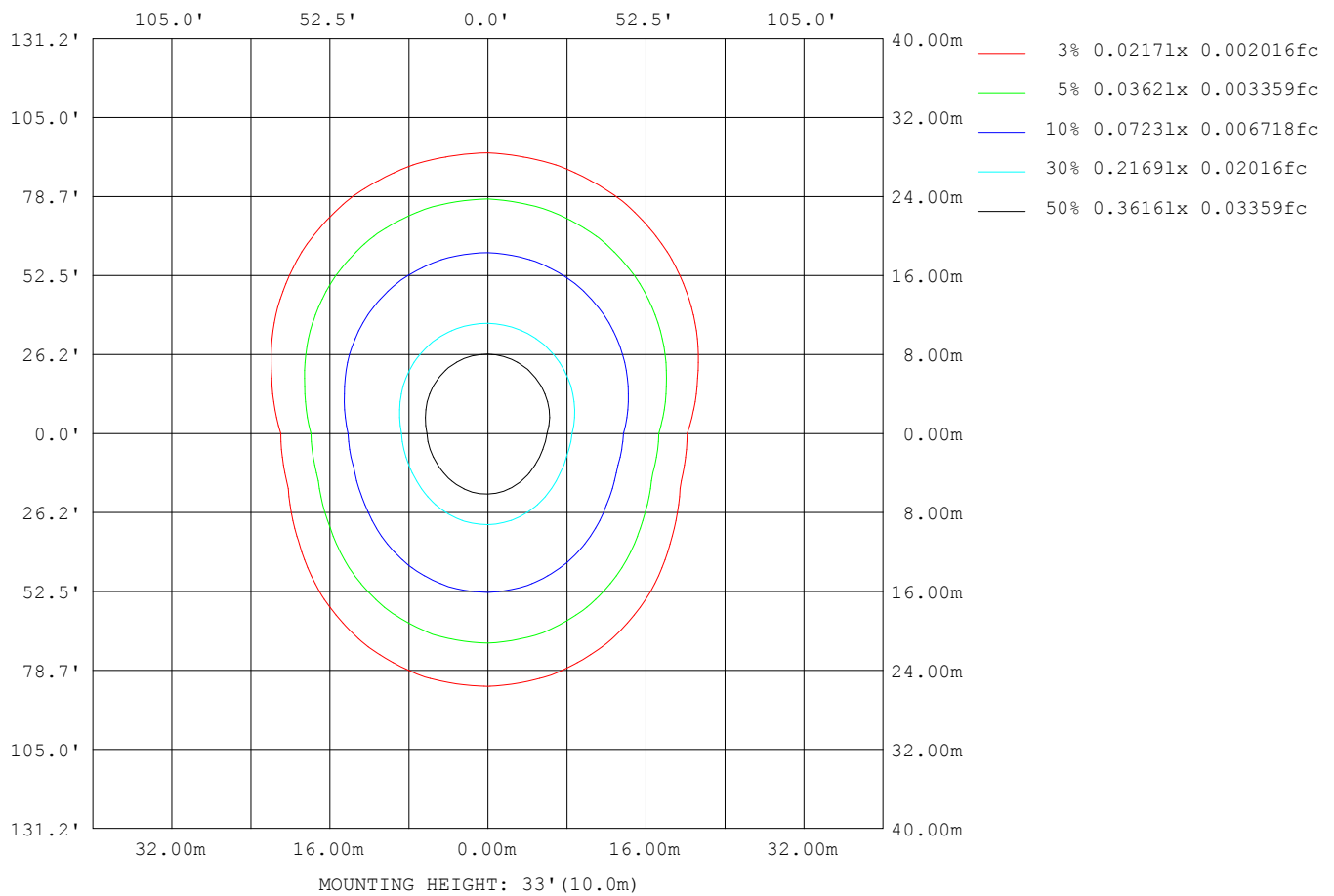
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Qin Meng  
Test Date:2025-05-14

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
Humidity:65.0%  
Test Distance:8.580m [K=1.0000]  
Remarks: MS-N283530-120-220V-9W-08F5-80-816

### ISOLUX DIAGRAM

Test:U:220.50V I:0.0520A P:10.500W PF:0.9090 Freq:50.00Hz Lamp Flux:358.042x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1000*12mm	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Qin Meng  
 Test Date:2025-05-14

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:8.580m [K=1.0000]  
 Remarks: MS-N283530-120-220V-9W-08F5-80-816

### LED Avg.L Report

Test:U:220.50V I:0.0520A P:10.500W PF:0.9090 Freq:50.00Hz Lamp Flux:358.042x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1000*12mm	Shielding Angle:

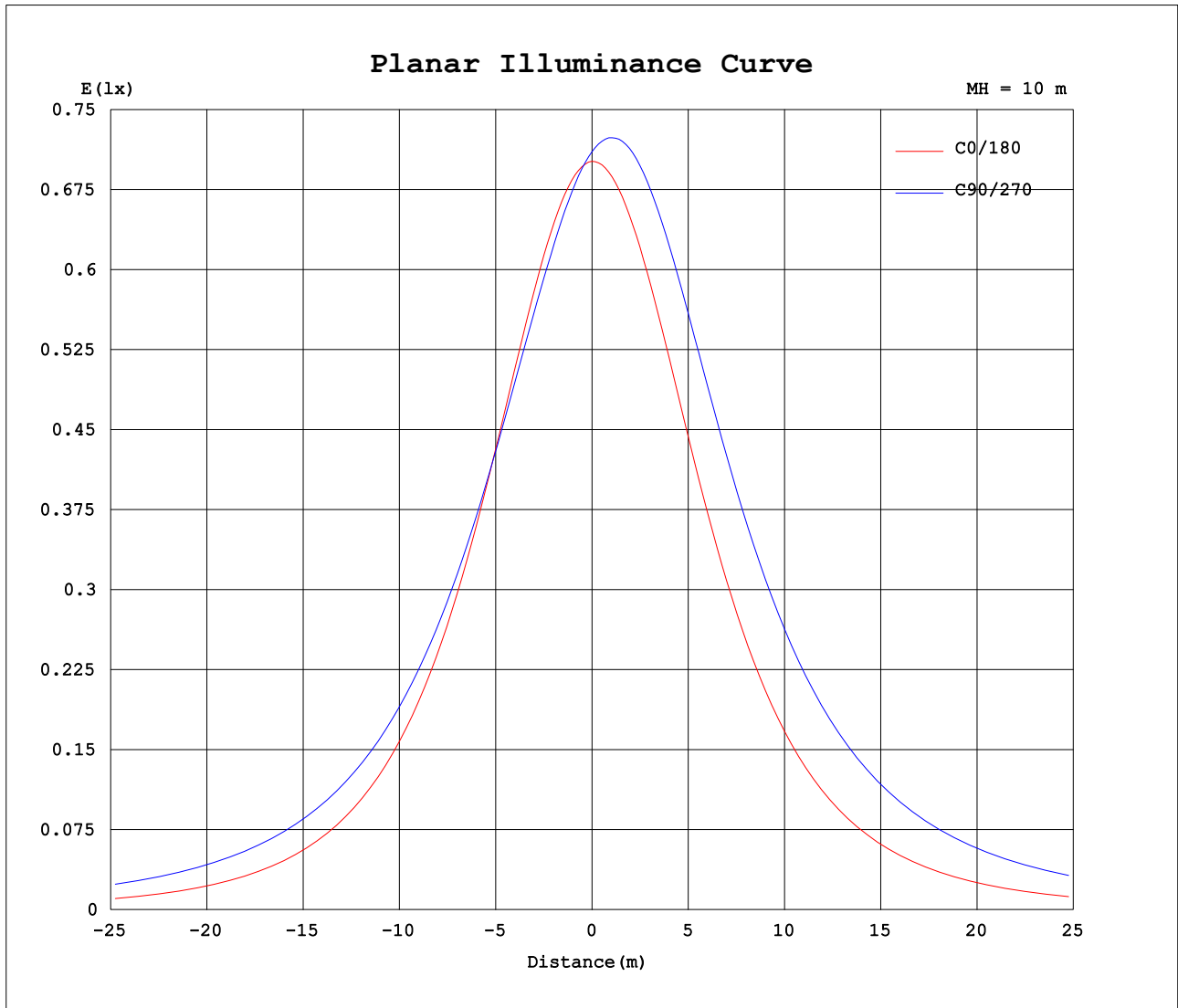
AvgL	cd/m2
L_0~180 (65) av	4914
L_0~180 (75) av	4549
L_0~180 (85) av	3947
L_90~270 (65) av	10833
L_90~270 (75) av	15869
L_90~270 (85) av	41292
L_45 (65) av	8586
L_45 (75) av	11839
L_45 (85) av	28991

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Qin Meng  
Test Date:2025-05-14

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
Humidity:65.0%  
Test Distance:8.580m [K=1.0000]  
Remarks: MS-N283530-120-220V-9W-08F5-80-816

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Qin Meng  
Test Date: 2025-05-14

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
Humidity: 65.0%  
Test Distance: 8.580m [K=1.0000]  
Remarks: MS-N283530-120-220V-9W-08F5-80-816

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.50V I:0.0520A P:10.500W PF:0.9090 Freq:50.00Hz Lamp Flux:358.042x1 lm																		
NAME:									TYPE:					WEIGHT:				
SPEC.:									DIM.:					SERIAL No.:				
MFR.:									SUR.:1000*12mm					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	70.2	70.2	70.3	70.5	70.6	70.9	71.1	71.4	71.5	71.8	71.9	72.0	70.2	70.2	70.3	70.5	70.6	70.9	71.1
5	69.7	69.2	68.8	68.7	68.5	68.7	68.8	69.3	69.7	70.1	70.6	71.2	69.9	70.6	71.3	72.0	72.5	73.0	73.2
10	68.5	67.6	66.8	66.5	66.3	66.4	66.5	67.1	67.5	68.2	68.9	69.9	69.1	70.4	71.8	73.1	74.1	74.9	75.1
15	66.8	65.4	64.5	64.0	63.9	64.2	64.5	64.9	65.3	65.9	66.7	67.9	67.6	69.6	71.7	73.7	75.3	76.4	76.7
20	64.4	62.7	61.6	61.5	61.6	62.1	62.5	62.9	63.0	63.5	64.1	65.4	65.6	68.2	71.1	73.8	75.9	77.3	77.6
25	61.4	59.4	58.5	58.8	59.4	60.1	60.6	60.9	60.8	60.9	61.2	62.4	62.9	66.2	69.9	73.3	76.0	77.7	78.1
30	57.9	55.7	55.1	56.0	57.1	58.2	58.9	59.0	58.6	58.1	57.9	58.8	59.7	63.6	68.2	72.3	75.6	77.5	78.0
35	53.9	51.6	51.5	53.0	54.8	56.4	57.2	57.2	56.3	55.2	54.3	54.9	56.0	60.5	65.9	70.7	74.6	76.8	77.3
40	49.4	47.2	47.7	50.0	52.5	54.6	55.5	55.4	54.1	52.2	50.6	50.6	51.9	56.9	63.1	68.6	73.0	75.5	76.1
45	44.6	42.6	43.9	47.1	50.3	52.8	53.8	53.5	51.8	49.3	46.7	46.0	47.3	52.9	59.8	66.1	71.0	73.8	74.4
50	39.5	37.8	40.0	44.0	47.9	50.9	52.1	51.7	49.5	46.2	42.8	41.2	42.4	48.6	56.2	63.1	68.5	71.5	72.2
55	34.2	32.9	36.1	41.1	45.6	48.9	50.3	49.8	47.2	43.3	38.9	36.3	37.3	43.9	52.3	59.8	65.6	68.8	69.6
60	28.7	28.1	32.3	38.1	43.3	47.0	48.5	47.9	44.9	40.3	35.0	31.4	32.0	39.0	48.0	56.1	62.4	65.8	66.6
65	23.2	23.4	28.7	35.2	41.0	45.0	46.5	45.9	42.6	37.5	31.4	26.5	26.6	34.1	43.7	52.3	58.9	62.5	63.3
70	17.7	18.9	25.2	32.5	38.7	42.9	44.6	43.9	40.3	34.7	27.9	21.9	21.2	29.2	39.2	48.3	55.1	58.8	59.8
75	12.3	14.7	22.0	29.9	36.4	40.8	42.5	41.7	38.0	32.1	24.6	17.6	16.0	24.3	34.8	44.2	51.2	55.1	56.0
80	7.14	11.1	19.2	27.5	34.1	38.6	40.4	39.5	35.7	29.6	21.7	13.8	10.8	19.7	30.5	40.1	47.3	51.1	52.1
85	2.33	8.17	16.8	25.2	31.9	36.4	38.2	37.4	33.5	27.2	19.2	10.6	5.93	15.5	26.4	36.0	43.2	47.1	48.1
90	0.00	6.07	14.7	23.0	29.7	34.2	36.0	35.1	31.2	25.0	17.0	8.23	0.86	11.8	22.6	32.1	39.2	43.1	44.1
95	0.00	4.69	13.1	21.1	27.6	31.9	33.7	32.9	29.1	23.0	15.2	6.67	0.00	8.64	19.1	28.4	35.3	39.1	40.1
100	0.00	3.52	11.5	19.3	25.5	29.7	31.4	30.6	26.9	21.1	13.6	4.91	0.00	5.74	15.6	23.8	30.6	35.1	36.1
105	0.00	1.35	9.85	17.3	23.5	27.5	29.1	28.3	24.9	19.2	11.8	2.59	0.00	3.76	13.0	20.9	26.8	29.8	32.2
110	0.00	0.54	8.42	15.2	20.8	25.0	26.6	25.8	22.5	17.0	9.58	1.88	0.00	2.38	9.60	18.0	23.6	26.5	28.3
115	0.00	0.00	5.47	13.5	18.5	22.0	23.5	22.9	19.8	14.3	7.11	0.60	0.00	1.01	7.00	14.3	20.4	23.3	23.5
120	0.00	0.00	3.41	10.9	16.4	19.6	20.9	20.3	17.2	10.6	4.32	0.00	0.00	0.20	4.88	9.15	17.3	20.0	20.1
125	0.00	0.00	2.40	7.10	13.6	17.2	18.4	17.9	13.4	8.13	3.26	0.00	0.00	0.00	3.29	7.29	12.2	16.9	17.4
130	0.00	0.00	1.10	4.83	9.35	13.7	15.5	15.0	9.32	5.32	1.69	0.00	0.00	0.00	2.06	5.21	8.64	14.0	14.5
135	0.00	0.00	0.00	3.50	6.14	9.14	11.2	10.2	6.30	3.18	0.22	0.00	0.00	0.00	1.16	3.49	5.92	10.5	11.8
140	0.00	0.00	0.00	1.93	4.36	6.16	7.23	5.82	3.49	1.24	0.00	0.00	0.00	0.00	0.40	2.19	4.01	6.64	9.24
145	0.00	0.00	0.00	0.23	2.71	4.21	4.95	2.75	1.36	0.01	0.00	0.00	0.00	0.00	0.00	1.22	2.45	4.15	6.86
150	0.00	0.00	0.00	0.00	0.78	2.28	3.03	0.98	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.27	1.25	1.27	4.23
155	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.09
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:25.3DEG  
Operators:Qin Meng  
Test Date:2025-05-14

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
Humidity:65.0%  
Test Distance:8.580m [K=1.0000]  
Remarks: MS-N283530-120-220V-9W-08F5-80-816

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.50V I:0.0520A P:10.500W PF:0.9090 Freq:50.00Hz Lamp Flux:358.042x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1000*12mm	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	71.4	71.5	71.8	71.9	72.0														
5	73.4	73.2	72.9	72.6	72.1														
10	75.1	74.5	73.7	72.6	71.5														
15	76.3	75.3	73.9	72.2	70.3														
20	77.1	75.7	73.6	71.1	68.5														
25	77.3	75.4	72.7	69.4	66.1														
30	76.9	74.6	71.2	67.3	63.1														
35	76.0	73.3	69.3	64.5	59.6														
40	74.6	71.5	66.8	61.3	55.6														
45	72.7	69.2	63.9	57.7	51.2														
50	70.4	66.5	60.6	53.7	46.5														
55	67.6	63.4	57.0	49.5	41.5														
60	64.5	60.0	53.1	45.0	36.3														
65	61.1	56.4	49.2	40.4	31.0														
70	57.5	52.6	45.1	35.8	25.8														
75	53.7	48.7	40.9	31.3	20.7														
80	49.7	44.8	36.9	27.1	16.0														
85	45.8	40.8	32.9	23.0	11.7														
90	41.8	36.9	29.1	19.3	8.20														
95	37.8	33.0	25.4	16.1	5.60														
100	33.9	29.3	22.0	13.2	3.78														
105	30.1	25.7	18.9	10.8	2.30														
110	26.4	22.4	16.1	8.71	1.13														
115	22.9	19.2	13.5	6.97	0.20														
120	19.6	16.2	11.2	5.01	0.00														
125	15.4	13.5	9.06	3.42	0.00														
130	12.9	10.3	6.64	2.24	0.00														
135	10.6	8.20	4.58	1.13	0.00														
140	8.21	5.72	3.09	0.07	0.00														
145	5.33	3.77	1.59	0.00	0.00														
150	3.30	2.08	0.13	0.00	0.00														
155	1.30	0.22	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:25.3DEG  
Operators:Qin Meng  
Test Date:2025-05-14

γ Range: 0 - 180DEG  
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