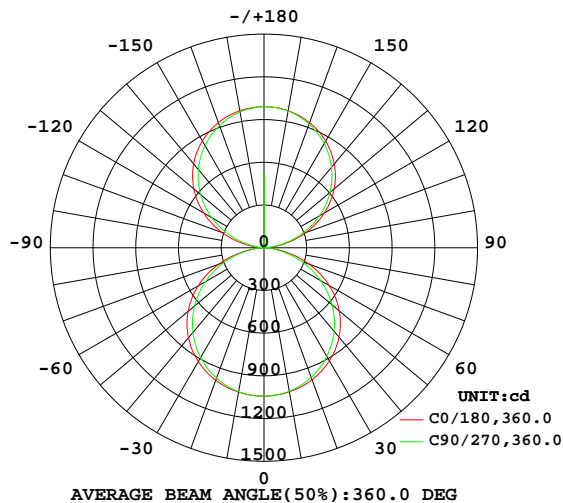


## LUMINAIRE PHOTOMETRIC TEST REPORT

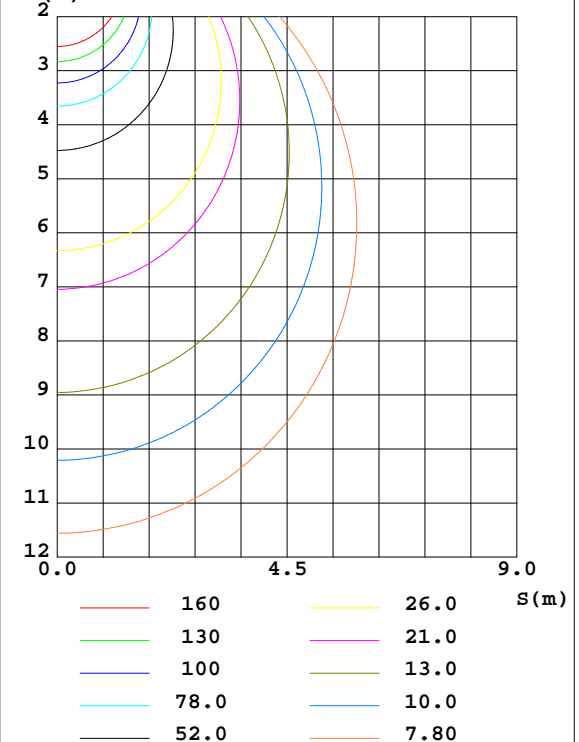
Test:U:120.00V I:0.3977A P:47.580W PF:0.9970 Freq:60.00Hz Lamp Flux:6023.65x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WISDOM OPTOELECTRONICS TECHNOLOGY CO.,LIMITED	MEASUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 126.60 lm/W			
MODEL	4FT404550W27-3545K-W	Imax(cd)	1042	S/MH(C0/180)	1.32
NOMINAL POWER(W)	50	LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	6023.6	$\eta$ UP,DN(C0-180)	24.5,25.6
NOMINAL FLUX(lm)	6023.65	CIE CLASS	DIFFUSE	$\eta$ UP,DN(C180-360)	23.8,26.1
LAMPS INSIDE	1	$\eta$ up(%)	48.3	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	$\eta$ down(%)	51.7	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: MEDIUM  
Temperature: 25.0DEG  
Operators: Alan Wang  
Test Date: 24 June 2023

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R3000\_V2 SYSTEM V2.00.416  
Humidity: 45.1%  
Test Distance: 2.500m [K=4.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	1027	1025	1023	1025	1030	1028	1026	1028	0- 10	98.74	98.74	1.64,1.64
20	986.7	977.1	968.7	978.3	990.3	983.7	974.9	981.1	10- 20	284.4	383.1	6.36,6.36
30	918.0	899.3	881.4	899.4	922.4	908.0	890.4	904.0	20- 30	435.8	818.9	13.6,13.6
40	819.8	791.6	765.6	790.5	825.5	802.3	776.9	796.9	30- 40	533.8	1353	22.5,22.5
50	690.6	656.6	623.7	653.1	696.1	668.2	637.2	662.4	40- 50	564.5	1917	31.8,31.8
60	528.6	493.5	459.8	487.3	532.8	506.1	474.4	499.3	50- 60	520.2	2438	40.5,40.5
70	336.3	308.4	279.2	298.6	338.3	319.8	294.7	312.7	60- 70	401.7	2839	47.1,47.1
80	131.1	117.9	100.1	106.2	130.1	125.9	112.9	119.4	70- 80	224.8	3064	50.9,50.9
90	4.029	2.092	1.322	1.696	1.357	3.252	3.125	2.970	80- 90	51.09	3115	51.7,51.7
100	126.1	117.1	104.3	116.5	121.3	94.03	79.29	101.5	90-100	44.24	3159	52.5,52.5
110	312.8	295.8	279.2	295.4	311.3	270.2	251.3	277.5	100-110	206.5	3366	55.9,55.9
120	490.4	469.5	450.5	469.3	489.2	445.9	423.4	451.5	110-120	370.8	3737	62,62
130	643.2	623.5	605.4	623.9	643.1	602.4	580.7	606.9	120-130	483.2	4220	70.1,70.1
140	768.6	752.7	737.9	752.9	769.0	735.6	716.8	738.8	130-140	527.6	4748	78.8,78.8
150	865.8	856.1	845.5	855.7	866.4	841.8	828.9	843.8	140-150	501.6	5249	87.1,87.1
160	935.9	931.1	924.9	930.5	935.6	921.3	914.0	922.6	150-160	411.3	5660	94,94
170	976.8	976.7	974.8	977.1	977.8	971.0	969.1	972.0	160-170	269.4	5930	98.4,98.4
180	990.6	990.7	990.6	990.6	990.6	990.7	990.6	990.6	170-180	93.79	6024	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1635.8 lm

%lum = 27.2%

%lamp = 27.2%

Conical surface Flux(120deg): 2437.5 lm

%lum = 40.5%

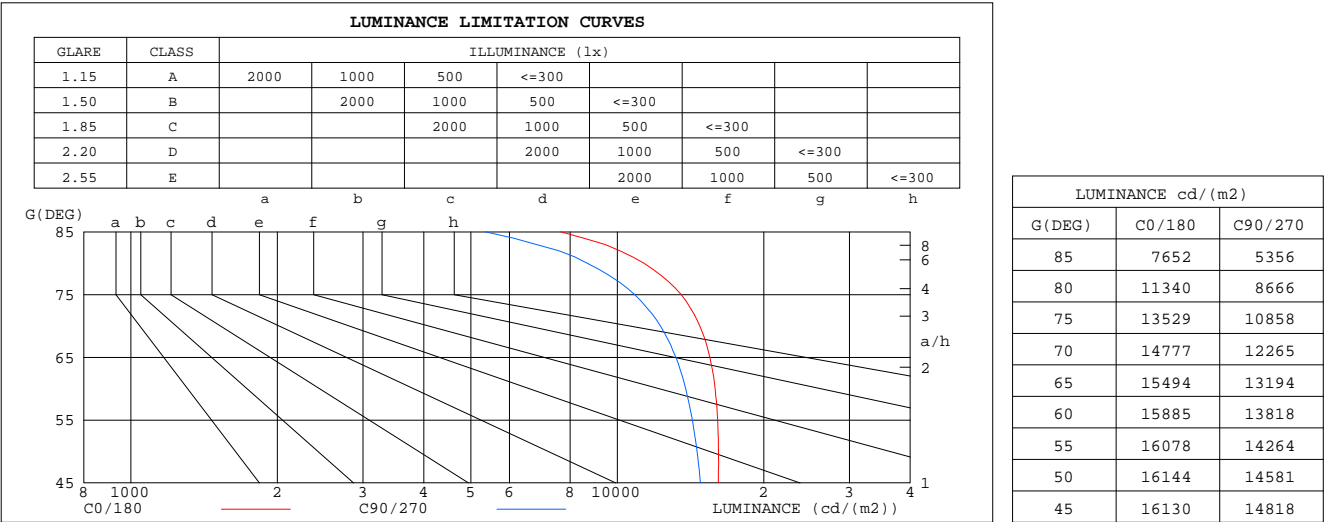
%lamp = 40.5%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 24 June 2023

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R3000\_V2 SYSTEM V2.00.416  
 Humidity: 45.1%  
 Test Distance: 2.500m [K=4.0000]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.00V I:0.3977A P:47.580W PF:0.9970 Freq:60.00Hz Lamp Flux:6023.65x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WISDOM OPTPELECTRONICS TECHNOLOGY CO.,LIMITED	ESUR.:	Shielding Angle:



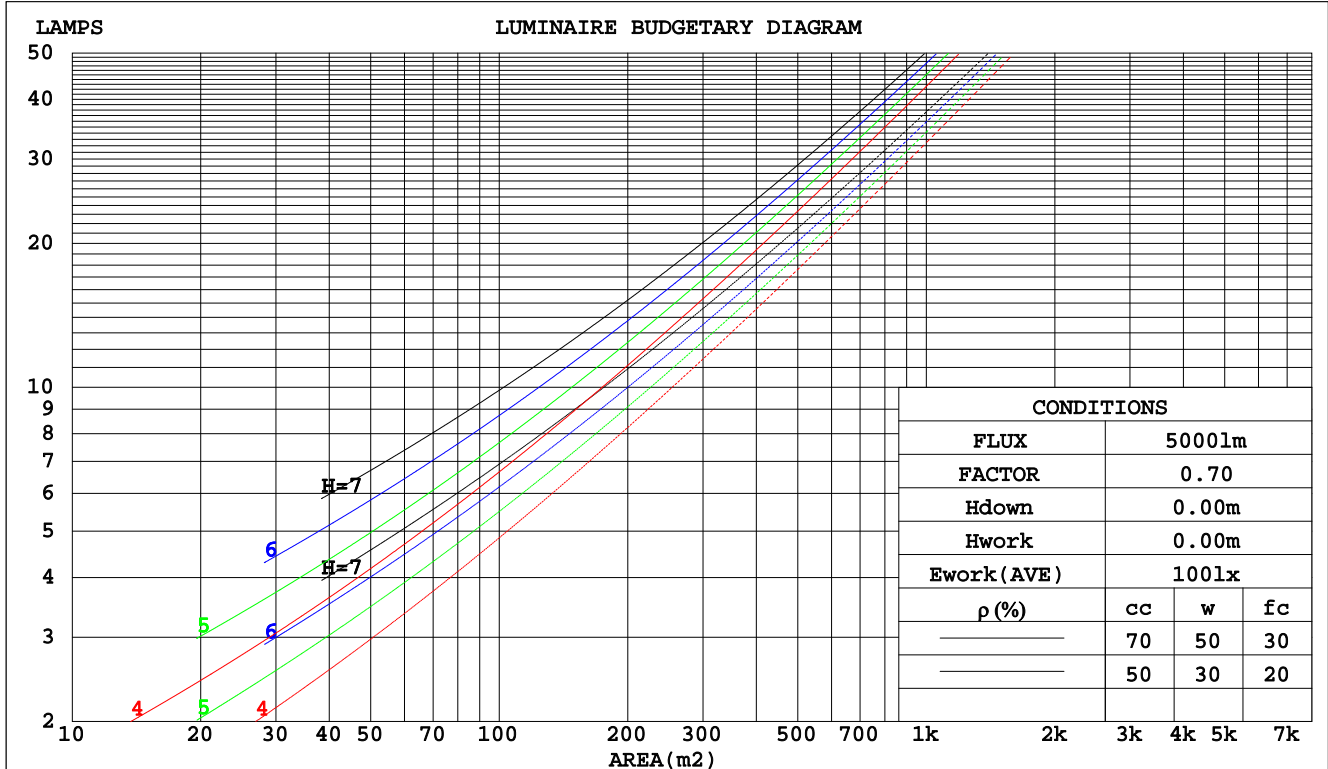
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: MEDIUM  
Temperature: 25.0DEG  
Operators: Alan Wang  
Test Date: 24 June 2023

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-R3000\_V2 SYSTEM V2.00.416  
Humidity: 45.1%  
Test Distance: 2.500m [K=4.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.00V I:0.3977A P:47.580W PF:0.9970 Freq:60.00Hz Lamp Flux:6023.65x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WISDOM OPTPELECTRONICS TECHNOLOGY CO.,LIMITED	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	1.08	1.08	1.08	.99	.99	.99	.84	.84	.84	.70	.70	.70	.58	.58	.58	.52
1.0	.94	.90	.86	.87	.83	.80	.74	.71	.69	.62	.60	.58	.51	.50	.48	.43
2.0	.81	.75	.70	.75	.70	.65	.64	.60	.57	.54	.51	.48	.44	.42	.40	.36
3.0	.71	.64	.58	.66	.60	.54	.56	.51	.47	.47	.44	.41	.39	.36	.34	.30
4.0	.63	.55	.49	.58	.51	.46	.50	.44	.40	.42	.38	.34	.35	.32	.29	.25
5.0	.56	.48	.42	.52	.45	.39	.45	.39	.34	.38	.33	.30	.31	.28	.25	.22
6.0	.50	.42	.36	.47	.39	.34	.40	.34	.30	.34	.29	.26	.28	.25	.22	.19
7.0	.45	.37	.31	.42	.35	.30	.36	.30	.26	.31	.26	.23	.26	.22	.19	.17
8.0	.41	.33	.28	.38	.31	.26	.33	.27	.23	.28	.24	.20	.23	.20	.17	.15
9.0	.37	.30	.25	.35	.28	.23	.30	.25	.21	.26	.21	.18	.22	.18	.16	.13
10.0	.34	.27	.22	.32	.25	.21	.28	.22	.19	.24	.19	.16	.20	.17	.14	.12



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 24 June 2023

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R3000\_V2 SYSTEM V2.00.416  
 Humidity: 45.1%  
 Test Distance: 2.500m [K=4.0000]  
 Remarks:

## WEC AND CCEC

Test:U:120.00V I:0.3977A P:47.580W PF:0.9970 Freq:60.00Hz Lamp Flux:6023.65x1 lm									
NAME:				TYPE:LED				WEIGHT:	
SPEC.:				DIM.:				SERIAL No.:	
MFR.: WISDOM OPTPELECTRONICS TECHNOLOGY CO.,LIMITED				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	.285	.162	.051	.263	.150	.048	.223	.128	.041	.186	.107	.034	.152	.088	.028		
2.0	.266	.146	.045	.247	.136	.042	.210	.117	.036	.176	.099	.031	.144	.082	.026		
3.0	.246	.131	.039	.228	.122	.037	.195	.105	.032	.163	.090	.027	.135	.075	.023		
4.0	.228	.118	.035	.211	.111	.033	.180	.096	.029	.152	.081	.025	.125	.068	.021		
5.0	.211	.107	.031	.196	.101	.029	.167	.087	.026	.141	.074	.022	.116	.062	.019		
6.0	.196	.098	.028	.182	.092	.026	.156	.080	.023	.131	.068	.020	.108	.057	.017		
7.0	.183	.090	.026	.170	.085	.024	.145	.074	.021	.123	.063	.018	.101	.053	.015		
8.0	.171	.083	.023	.159	.078	.022	.136	.068	.019	.115	.058	.017	.095	.049	.014		
9.0	.160	.078	.022	.149	.073	.020	.128	.063	.018	.108	.054	.016	.089	.045	.013		
10.0	.151	.072	.020	.140	.068	.019	.121	.059	.017	.102	.051	.014	.084	.042	.012		

pcc	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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.558	.558	.558	.477	.477	.477	.326	.326	.326	.187	.187	.187	.060	.060	.060	
1.0	.550	.527	.507	.470	.453	.437	.322	.311	.302	.185	.180	.176	.059	.058	.057	
2.0	.542	.505	.475	.464	.435	.410	.318	.301	.286	.184	.175	.168	.059	.057	.055	
3.0	.535	.490	.453	.459	.422	.393	.315	.293	.276	.182	.171	.162	.058	.056	.053	
4.0	.529	.478	.439	.454	.413	.381	.312	.288	.268	.180	.168	.159	.058	.055	.052	
5.0	.522	.468	.428	.448	.405	.373	.309	.283	.263	.179	.166	.156	.058	.054	.051	
6.0	.516	.461	.421	.443	.399	.367	.306	.279	.260	.177	.164	.154	.057	.054	.051	
7.0	.510	.455	.416	.439	.394	.362	.303	.276	.257	.176	.163	.153	.057	.053	.051	
8.0	.504	.449	.412	.434	.390	.359	.300	.274	.255	.175	.161	.152	.057	.053	.050	
9.0	.499	.445	.409	.430	.386	.356	.298	.271	.253	.173	.160	.151	.056	.053	.050	
10.0	.494	.441	.406	.425	.383	.354	.295	.270	.252	.172	.159	.150	.056	.052	.050	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 24 June 2023

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R3000\_V2 SYSTEM V2.00.416  
 Humidity: 45.1%  
 Test Distance: 2.500m [K=4.0000]  
 Remarks:

## UGR(Unified Glare Rating) Table

Test:U:120.00V I:0.3977A P:47.580W PF:0.9970 Freq:60.00Hz Lamp Flux:6023.65x1 lm											
NAME:					TYPE:LED			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.: WISDOM OPTPELECTRONICS TECHNOLOGY CO.,LIMITED					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	19.6	20.6	20.4	21.4	22.5	19.0	19.9	19.8	20.8	21.9	
	3H	21.1	22.0	22.0	22.9	24.0	20.3	21.2	21.2	22.1	23.2
	4H	21.7	22.5	22.6	23.4	24.5	20.8	21.6	21.7	22.5	23.6
	6H	22.0	22.8	22.9	23.7	24.8	21.0	21.8	21.9	22.7	23.8
	8H	22.1	22.8	23.0	23.7	24.9	21.1	21.8	22.0	22.7	23.9
	12H	22.1	22.8	23.0	23.7	24.9	21.1	21.7	22.0	22.7	23.8
4H	2H	20.0	20.8	20.9	21.7	22.8	19.5	20.3	20.4	21.2	22.3
	3H	21.7	22.4	22.6	23.3	24.4	21.0	21.7	21.9	22.6	23.8
	4H	22.3	23.0	23.3	23.9	25.1	21.6	22.2	22.5	23.1	24.3
	6H	22.8	23.3	23.7	24.3	25.5	21.9	22.4	22.9	23.4	24.6
	8H	22.9	23.4	23.9	24.4	25.6	22.0	22.5	22.9	23.4	24.7
	12H	22.9	23.4	23.9	24.3	25.6	22.0	22.4	22.9	23.4	24.6
8H	4H	22.4	22.9	23.4	23.9	25.1	21.7	22.2	22.7	23.2	24.4
	6H	23.0	23.4	24.0	24.4	25.7	22.2	22.6	23.2	23.6	24.9
	8H	23.2	23.5	24.2	24.5	25.8	22.3	22.7	23.3	23.7	24.9
	12H	23.2	23.5	24.2	24.5	25.9	22.3	22.6	23.3	23.6	24.9
12H	4H	22.4	22.8	23.4	23.8	25.1	21.7	22.2	22.7	23.1	24.4
	6H	23.0	23.3	24.0	24.3	25.6	22.2	22.5	23.2	23.5	24.8
	8H	23.2	23.5	24.2	24.5	25.8	22.3	22.6	23.3	23.6	25.0
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.2					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					

CIE Pub.117, 6024 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 6.2$ )  
Area: 0.06655 m<sup>2</sup>

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: MEDIUM  
Temperature: 25.0DEG  
Operators: Alan Wang  
Test Date: 24 June 2023

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R3000\_V2 SYSTEM V2.00.416  
Humidity: 45.1%  
Test Distance: 2.500m [K=4.0000]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:120.00V I:0.3977A P:47.580W PF:0.9970 Freq:60.00Hz Lamp Flux:6023.65x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WISDOM OPTOELECTRONICS TECHNOLOGY CO.,LIMITED	ESUR.:	Shielding Angle:

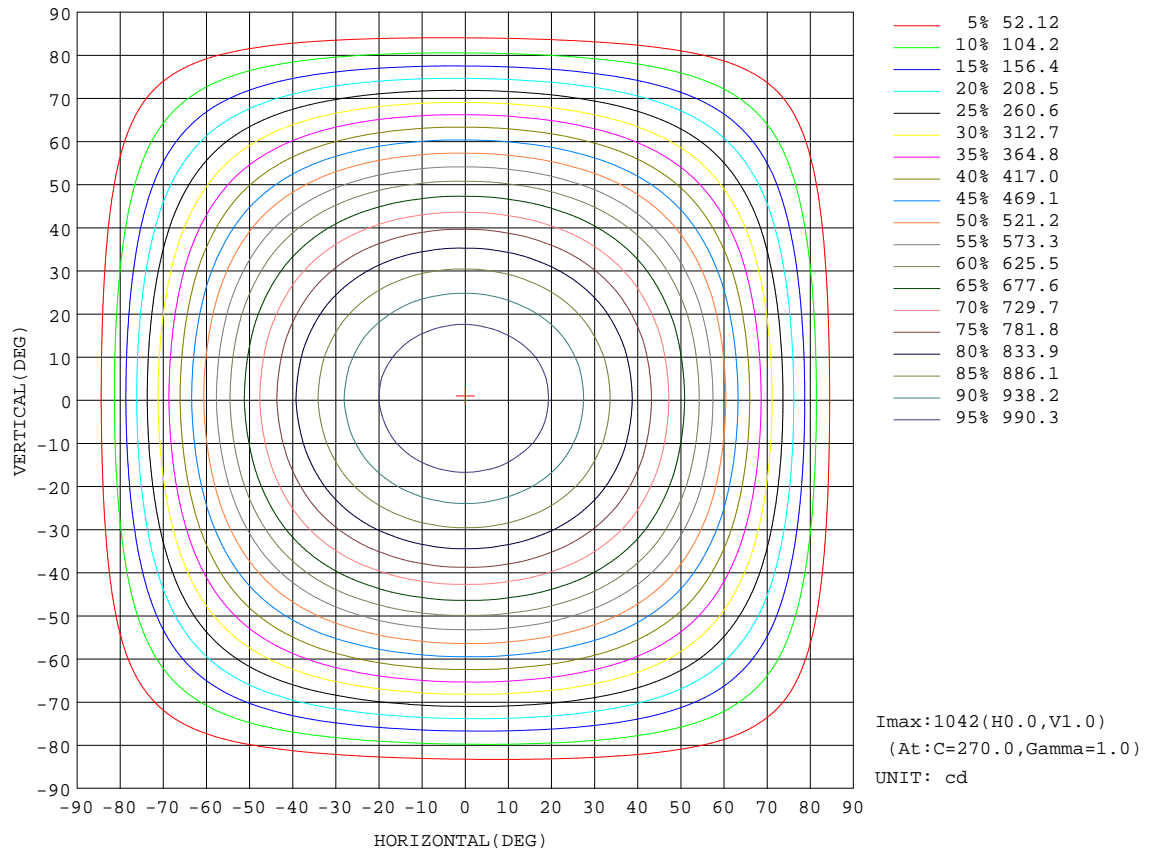
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	44	33	26	42	31	26	37	29	24	16
0.80	53	42	35	50	40	33	44	36	31	21
1.00	61	50	42	57	47	41	50	44	37	25
1.25	68	57	50	64	54	47	56	48	43	29
1.50	74	63	56	69	59	53	59	52	47	32
2.00	81	71	64	75	67	61	65	59	54	36
2.50	85	77	70	79	72	66	68	63	58	38
3.00	89	81	75	82	76	70	70	66	62	40
4.00	93	87	82	86	81	76	74	70	67	43
5.00	96	90	86	89	84	80	76	72	70	44
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: MEDIUM  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 24 June 2023

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R3000\_V2 SYSTEM V2.00.416  
 Humidity: 45.1%  
 Test Distance: 2.500m [K=4.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

Test:U:120.00V I:0.3977A P:47.580W PF:0.9970 Freq:60.00Hz Lamp Flux:6023.65x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WISDOM OPTOELECTRONICS TECHNOLOGY CO.,LIMITED	ESUR.:	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: MEDIUM  
Temperature: 25.0DEG  
Operators: Alan Wang  
Test Date: 24 June 2023

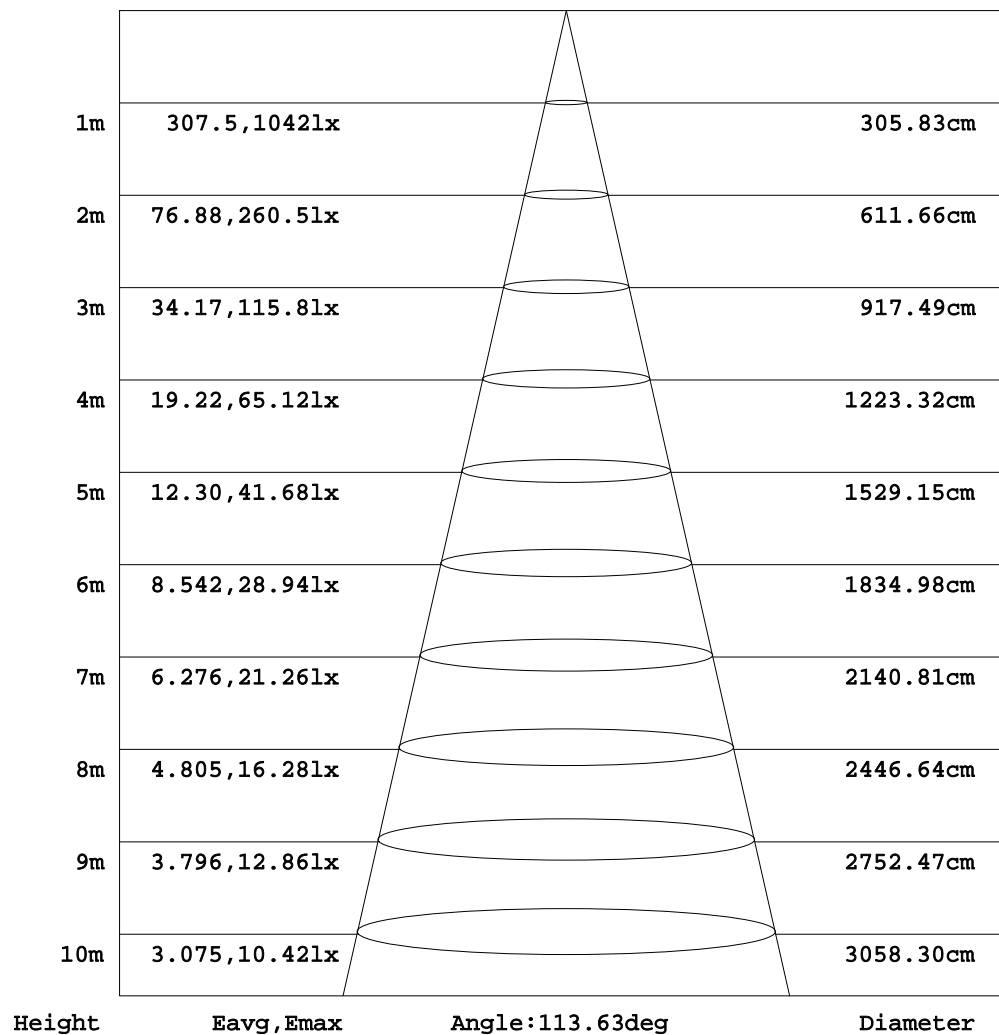
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R3000\_V2 SYSTEM V2.00.416  
Humidity: 45.1%  
Test Distance: 2.500m [K=4.0000]  
Remarks:



## AAI Figure

Test:U:120.00V I:0.3977A P:47.580W PF:0.9970 Freq:60.00Hz Lamp Flux:6023.65x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WISDOM OPTOELECTRONICS TECHNOLOGY CO.,LIMITED	ESU:	Shielding Angle:

Flux out:2291 lm



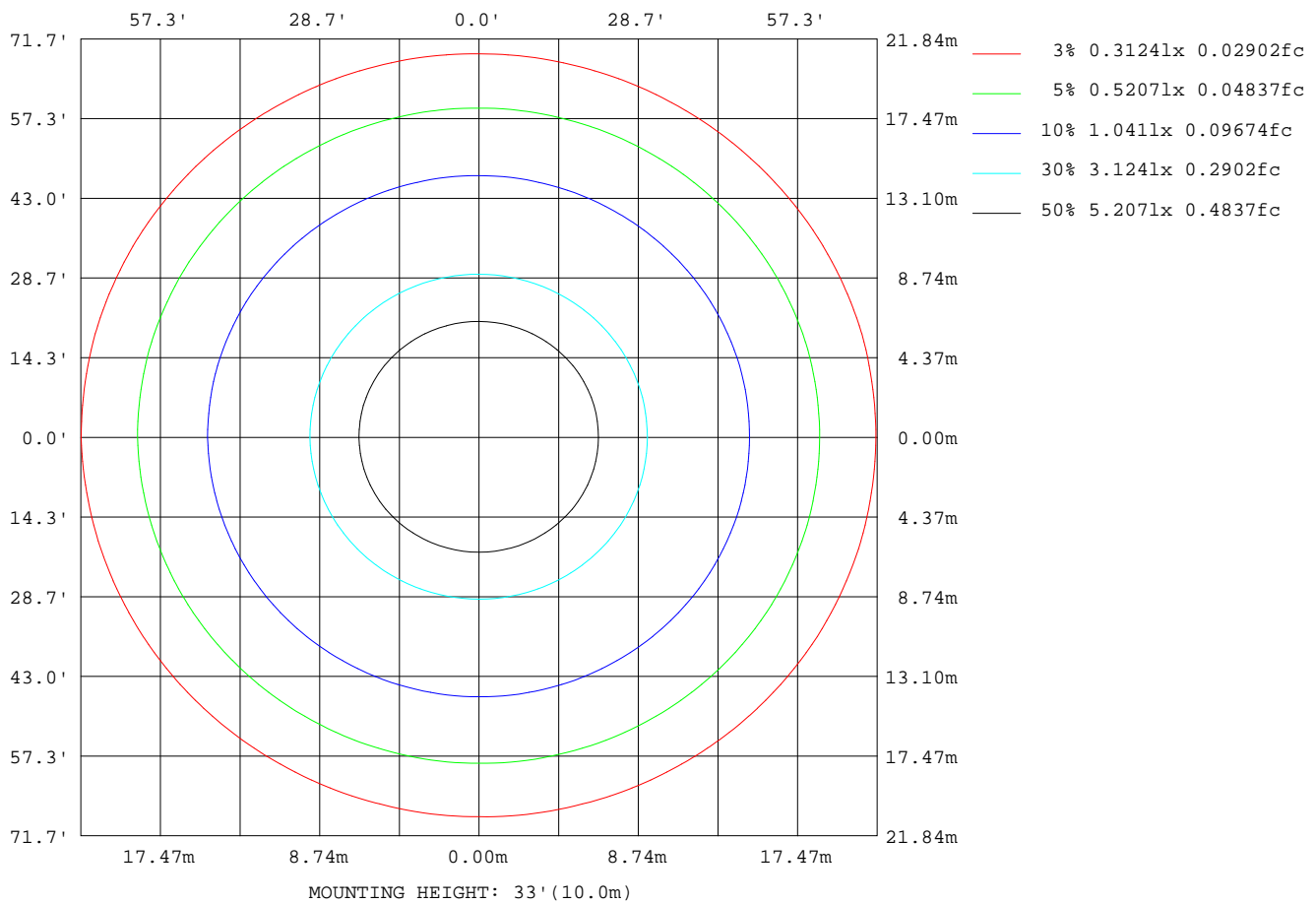
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.0DEG  
 Operators:Alan Wang  
 Test Date:24 June 2023

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R3000\_V2 SYSTEM V2.00.416  
 Humidity: 45.1%  
 Test Distance:2.500m [K=4.0000]  
 Remarks:

## ISOLUX DIAGRAM

Test:U:120.00V I:0.3977A P:47.580W PF:0.9970 Freq:60.00Hz Lamp Flux:6023.65x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WISDOM OPTOELECTRONICS TECHNOLOGY CO.,LIMITED	ESUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 24 June 2023

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R3000\_V2 SYSTEM V2.00.416  
 Humidity: 45.1%  
 Test Distance: 2.500m [K=4.0000]  
 Remarks:

## LED Avg.L Report

Test:U:120.00V I:0.3977A P:47.580W PF:0.9970 Freq:60.00Hz Lamp Flux:6023.65x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WISDOM OPTPELECTRONICS TECHNOLOGY CO.,LIMITED	ESUR.:	Shielding Angle:

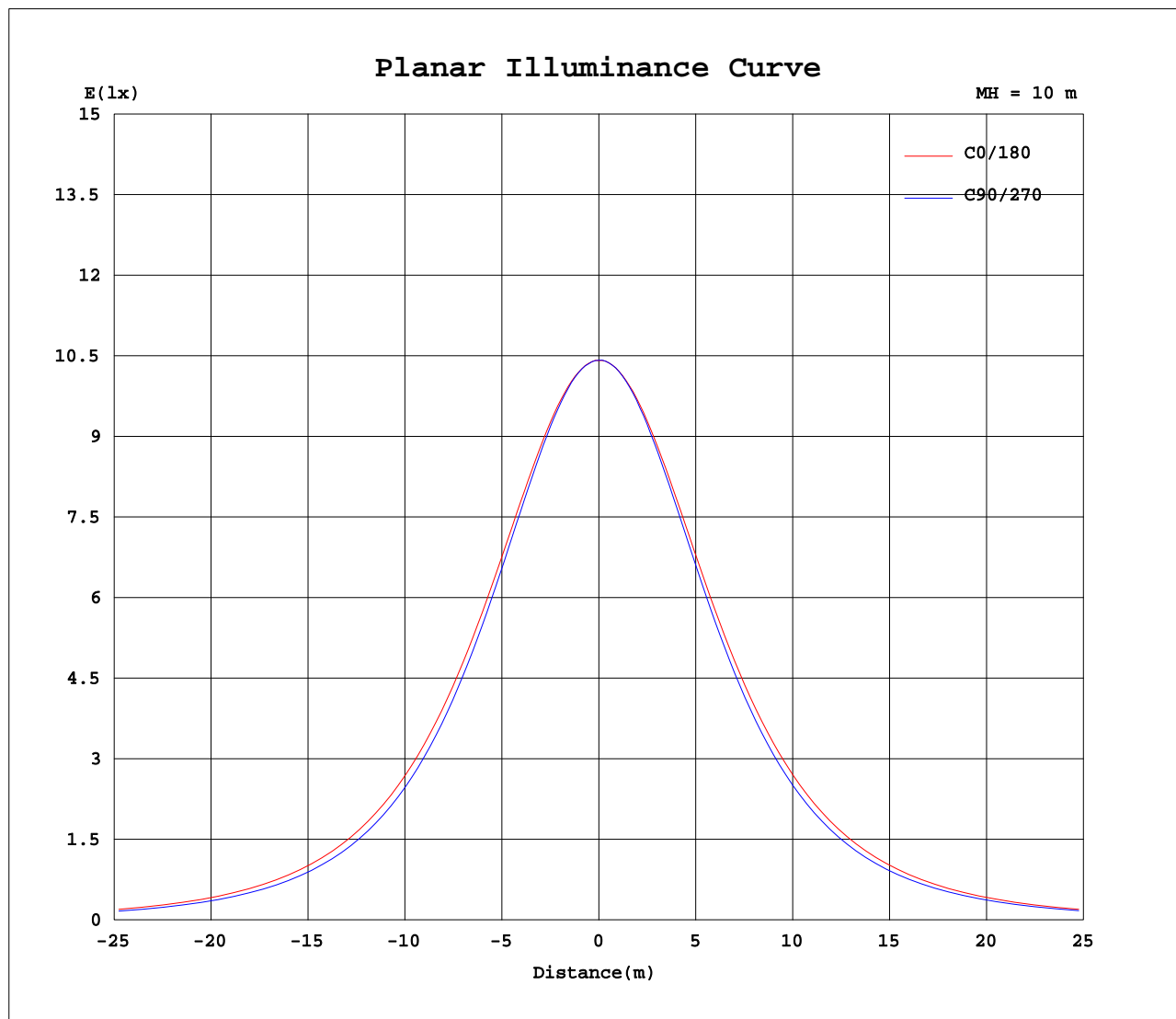
AvgL	cd/m2
L_0~180(65)av	15554
L_0~180(75)av	13550
L_0~180(85)av	7542
L_90~270(65)av	13459
L_90~270(75)av	11263
L_90~270(85)av	6093
L_45(65)av	14420
L_45(75)av	12289
L_45(85)av	6785

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: MEDIUM  
Temperature: 25.0DEG  
Operators: Alan Wang  
Test Date: 24 June 2023

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R3000\_V2 SYSTEM V2.00.416  
Humidity: 45.1%  
Test Distance: 2.500m [K=4.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: MEDIUM  
Temperature: 25.0DEG  
Operators: Alan Wang  
Test Date: 24 June 2023

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R3000\_V2 SYSTEM V2.00.416  
Humidity: 45.1%  
Test Distance: 2.500m [K=4.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.3977A P:47.580W PF:0.9970 Freq:60.00Hz Lamp Flux:6023.65x1 lm																			
NAME:										TYPE:LED					WEIGHT:				
SPEC.:										DIM.:					SERIAL No.:				
MFR.: WISDOM OPTPELECTRONICS TECHNOLOGY CO.,LIMITED										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	1041	1041	1042	1041	1041	1042	1042	1042	1041	1041	1042	1041	1041	1041	1042	1041	1041	1042	1042
5	1038	1038	1038	1038	1037	1037	1037	1037	1038	1037	1038	1039	1039	1039	1040	1039	1038	1038	1039
10	1027	1027	1027	1025	1024	1023	1023	1024	1024	1025	1027	1028	1030	1030	1029	1028	1027	1026	1026
15	1011	1009	1008	1005	1002	1001	1000	1001	1003	1006	1009	1011	1013	1013	1012	1010	1007	1005	1004
20	987	985	982	977	972	970	969	970	974	978	983	987	990	990	987	984	979	976	975
25	956	954	949	942	935	930	929	931	935	942	950	957	960	960	956	949	944	938	936
30	918	915	909	899	890	884	881	883	890	899	909	917	922	922	916	908	900	893	890
35	872	869	861	849	838	830	827	830	837	848	861	871	878	877	870	859	848	840	837
40	820	816	806	792	778	769	766	768	777	791	805	818	825	824	815	802	790	781	777
45	759	755	744	728	713	702	697	700	710	726	742	756	765	762	753	739	725	714	710
50	691	685	673	657	640	628	624	627	636	653	671	686	696	694	683	668	653	642	637
55	614	609	596	578	561	549	544	547	557	574	592	608	618	617	606	590	575	564	558
60	529	524	511	494	477	465	460	462	472	487	505	521	533	531	521	506	491	480	474
65	436	431	420	403	388	377	371	372	381	395	412	427	439	438	429	416	401	391	386
70	336	333	323	308	295	284	279	280	287	299	313	327	338	338	331	320	308	299	295
75	233	230	223	211	200	192	187	187	191	200	211	223	234	235	230	221	212	205	201
80	131	130	125	118	110	104	100	99.2	101	106	113	122	130	132	130	126	120	116	113
85	44.4	44.5	43.0	40.1	36.6	33.5	31.1	29.8	29.8	31.1	33.9	37.5	43.1	45.6	46.4	45.5	43.7	41.5	39.6
90	4.03	2.29	4.66	2.09	1.73	1.46	1.32	2.79	1.60	1.70	1.68	1.45	1.36	2.42	2.84	3.25	3.44	3.33	3.12
95	44.8	47.9	45.4	39.4	34.0	33.8	33.3	35.5	35.0	39.5	43.0	40.8	40.3	35.8	29.8	21.8	17.4	15.9	15.9
100	126	128	123	117	110	106	104	106	111	117	121	123	121	112	103	94.0	85.8	80.4	79.3
105	219	219	213	205	197	192	190	192	197	205	211	216	216	204	192	180	170	164	164
110	313	313	305	296	287	281	279	281	287	295	304	310	311	297	284	270	259	252	251
115	404	403	395	385	375	369	366	369	375	384	393	401	403	389	375	360	348	340	339
120	490	489	480	470	460	453	451	453	460	469	479	487	489	476	461	446	433	425	423
125	570	569	560	549	540	533	531	533	540	549	559	567	569	556	542	527	514	507	505
130	643	642	634	623	614	608	605	608	614	624	633	641	643	631	616	602	591	583	581
135	710	708	700	692	683	677	675	677	683	691	700	707	709	698	686	673	661	654	652
140	769	768	762	753	745	739	738	740	745	753	760	767	769	758	748	736	725	719	717
145	821	820	815	808	801	796	795	796	801	808	814	820	821	813	803	792	784	778	776
150	866	866	862	856	851	847	845	846	850	856	861	866	866	859	850	842	835	830	829
155	904	904	901	897	893	890	889	890	893	897	901	905	905	899	892	885	880	876	875
160	936	936	933	931	928	926	925	926	928	931	933	936	936	932	926	921	918	914	914
165	960	960	959	958	956	954	954	954	955	957	959	961	960	957	953	950	947	946	945
170	977	977	977	977	976	974	975	975	976	977	977	978	978	975	973	971	970	969	969
175	988	988	988	988	988	988	988	988	988	988	988	988	988	987	986	985	985	984	984
180	991	991	991	991	991	991	991	991	991	991	991	991	991	991	991	991	991	991	991

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: MEDIUM  
Temperature: 25.0DEG  
Operators: Alan Wang  
Test Date: 24 June 2023

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-R3000\_V2 SYSTEM V2.00.416  
Humidity: 45.1%  
Test Distance: 2.500m [K=4.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.3977A P:47.580W PF:0.9970 Freq:60.00Hz Lamp Flux:6023.65x1 lm					
NAME:			TYPE:LED		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.: WISDOM OPTPELECTRONICS TECHNOLOGY CO.,LIMITED			SUR.:		Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345													
0	1042	1041	1041	1042	1041													
5	1039	1038	1039	1039	1039													
10	1027	1026	1028	1028	1028													
15	1004	1006	1008	1010	1010													
20	975	978	981	984	987													
25	937	940	946	952	956													
30	891	897	904	912	918													
35	838	845	855	865	872													
40	779	786	797	810	819													
45	712	721	733	747	757													
50	639	648	662	677	689													
55	561	570	584	600	612													
60	477	485	499	515	527													
65	388	396	408	423	435													
70	296	302	313	325	335													
75	201	206	214	224	233													
80	113	115	119	125	131													
85	39.1	39.3	40.7	43.0	44.9													
90	2.98	3.01	2.97	2.71	2.53													
95	17.3	20.6	27.6	36.3	41.5													
100	83.6	91.4	101	112	121													
105	168	176	188	200	211													
110	256	265	278	291	304													
115	343	353	366	381	395													
120	428	438	451	467	481													
125	509	519	532	547	561													
130	585	594	607	622	635													
135	655	664	676	689	702													
140	720	728	739	751	762													
145	779	785	795	805	815													
150	831	837	844	853	861													
155	876	881	887	894	900													
160	915	918	923	928	933													
165	945	947	951	954	958													
170	968	970	972	973	976													
175	984	984	985	986	987													
180	991	991	991	991	991													

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 24 June 2023

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R3000\_V2 SYSTEM V2.00.416  
 Humidity: 45.1%  
 Test Distance: 2.500m [K=4.0000]  
 Remarks: