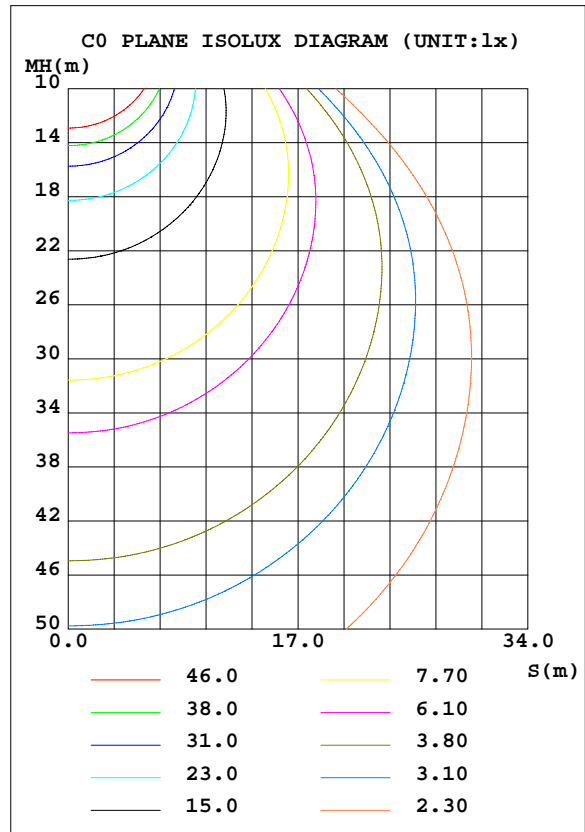
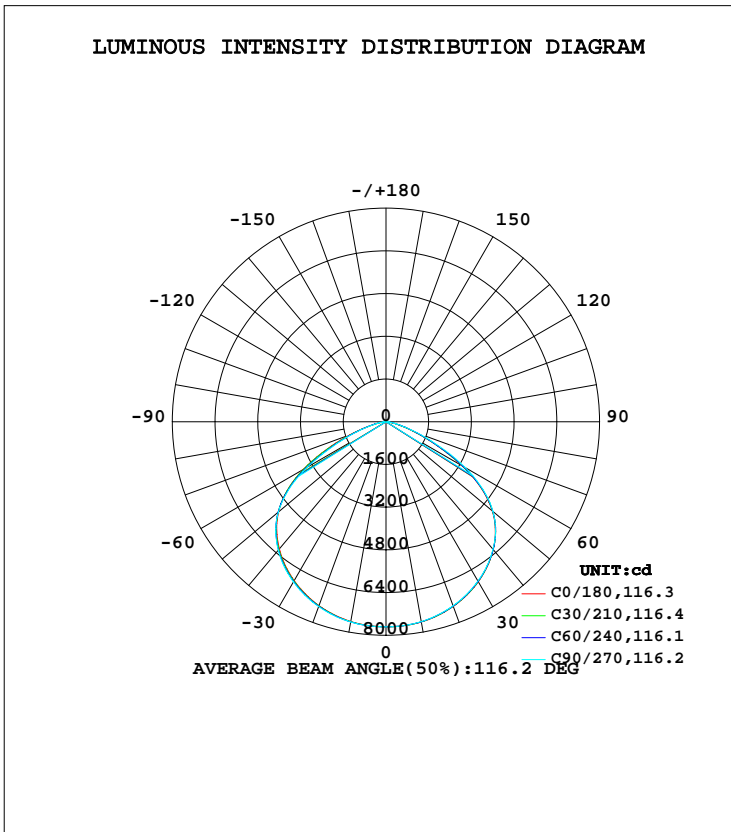


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:1.256A P:150.1W PF:0.9959 Freq:60.01Hz Lamp Flux:21803.6x1 lm		
NAME: LED UFO	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SHENZHEN HOLDIED OPTO LTD	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 145.27 lm/W			
MODEL	HD-IW-W150W-A00E	I _{max} (cd)	7684	S/MH(C0/180)	1.33
NOMINAL POWER(W)	150	LOR(%)	100.0	S/MH(C90/270)	1.34
RATED VOLTAGE(V)	100-277	TOTAL FLUX(lm)	21804	η UP, DN(C0-180)	0.0,49.9
NOMINAL FLUX(lm)	21803.6	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1,50.0
LAMPS INSIDE	1	η up(%)	0.1	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	99.9	CIBSE SHR MAX	1.50



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.6DEG
 Operators:Derek Lai
 Test Date:11 October 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.362
 Humidity: 41.3%
 Test Distance:2.500m [K=1.0708]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	7615	7610	7602	7597	7600	7604	7616	7620	0- 10	729.9	729.9	3.35,3.35
20	7361	7354	7338	7329	7331	7344	7369	7372	10- 20	2121	2850	13.1,13.1
30	6917	6909	6889	6877	6876	6895	6931	6934	20- 30	3300	6150	28.2,28.2
40	6244	6254	6235	6227	6215	6246	6280	6276	30- 40	4135	10285	47.2,47.2
50	5198	5235	5228	5268	5249	5266	5262	5243	40- 50	4473	14758	67.7,67.7
60	3279	3325	3422	3559	3587	3509	3398	3335	50- 60	3947	18705	85.8,85.8
70	1209	1232	1296	1372	1447	1336	1295	1203	60- 70	2261	20966	96.2,96.2
80	210.1	255.5	281.0	290.8	283.9	276.7	295.9	237.4	70- 80	730.7	21697	99.5,99.5
90	0.3110	0.2888	0.2983	0.2656	0.7759	0.7949	0.8266	0.8612	80- 90	88.15	21785	99.9,99.9
100	0.6249	0.6129	0.6101	0.5896	1.660	1.714	1.762	1.840	90-100	0.9313	21786	99.9,99.9
110	1.046	0.9860	1.047	1.023	2.230	2.362	2.467	2.486	100-110	1.560	21788	99.9,99.9
120	1.866	1.701	1.757	1.750	2.797	2.808	2.860	2.801	110-120	1.946	21790	99.9,99.9
130	2.924	2.795	2.806	2.774	3.947	4.116	4.125	3.949	120-130	2.523	21792	99.9,99.9
140	3.944	3.912	3.861	3.831	5.144	5.644	5.441	5.389	130-140	3.141	21795	100,100
150	4.398	4.303	4.359	4.366	6.418	6.786	6.688	6.496	140-150	3.185	21798	100,100
160	5.120	5.121	4.469	5.208	7.526	7.891	7.089	7.522	150-160	2.707	21801	100,100
170	5.596	5.931	5.389	5.538	7.148	7.587	7.099	7.228	160-170	1.801	21803	100,100
180	6.513	6.543	6.202	6.149	6.512	6.544	6.210	6.152	170-180	0.6110	21804	100,100
DEG	LUMINOUS INTENSITY:cd Less than 35% Percent = 7.8 %									UNIT:lm		

Conical surface Flux(90deg): 12520 lm

%lum = 57.4%

%lamp = 57.4%

Conical surface Flux(120deg): 18705 lm

%lum = 85.8%

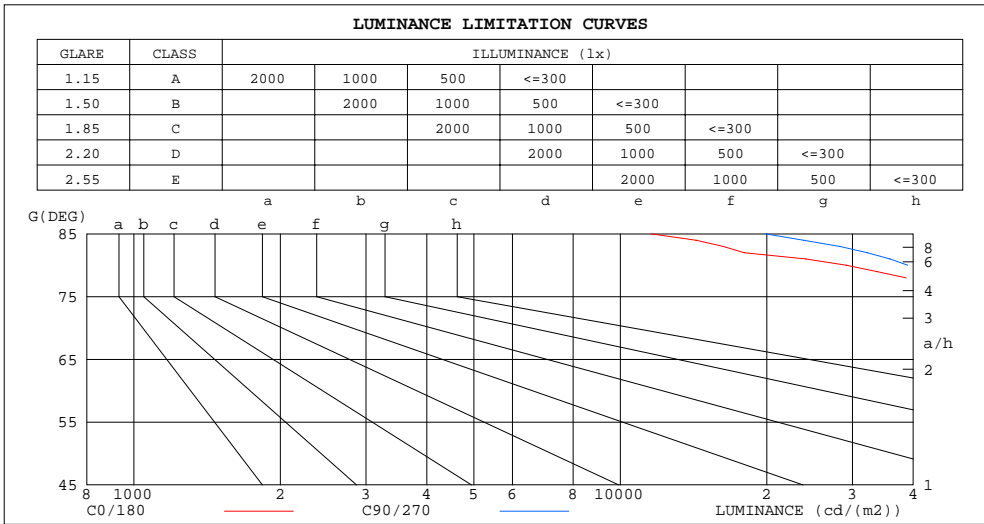
%lamp = 85.8%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.6DEG
 Operators:Derek Lai
 Test Date:11 October 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.362
 Humidity: 41.3%
 Test Distance:2.500m [K=1.0708]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.0V I:1.256A P:150.1W PF:0.9959 Freq:60.01Hz Lamp Flux:21803.6x1 lm		
NAME: LED UFO	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SHENZHEN HOLDIED OPTO LTD	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	11555	19873
80	29135	38981
75	53325	60492
70	85118	91272
65	120603	128693
60	157865	164875
55	183598	186570
50	194708	195938
45	197328	197506

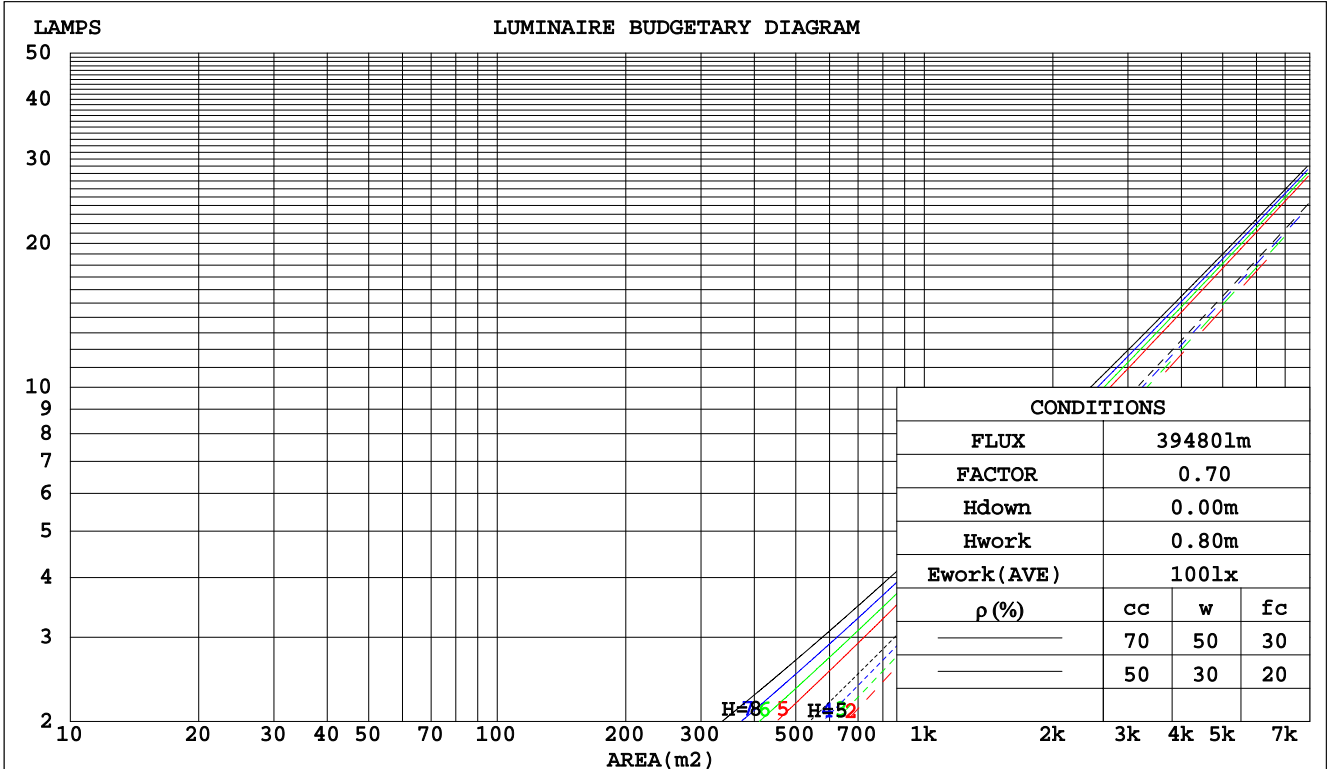
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.6DEG
 Operators: Derek Lai
 Test Date: 11 October 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.362
 Humidity: 41.3%
 Test Distance: 2.500m [K=1.0708]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:1.256A P:150.1W PF:0.9959 Freq:60.01Hz Lamp Flux:21803.6x1 lm		
NAME: LED UFO	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SHENZHEN HOLDIED OPTO LTD	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																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	1.06	1.02	.98	1.03	1.00	.97	.99	.96	.94	.95	.93	.91	.92	.90	.88	.86
2.0	.93	.87	.81	.91	.85	.80	.88	.83	.79	.84	.80	.77	.81	.78	.75	.73
3.0	.82	.74	.68	.80	.73	.68	.77	.71	.66	.75	.70	.65	.72	.68	.64	.62
4.0	.73	.64	.58	.71	.64	.58	.69	.62	.57	.67	.61	.56	.65	.59	.55	.53
5.0	.65	.56	.50	.64	.56	.50	.62	.55	.49	.60	.53	.49	.58	.52	.48	.46
6.0	.58	.50	.43	.58	.49	.43	.56	.48	.43	.54	.47	.42	.52	.47	.42	.40
7.0	.53	.44	.38	.52	.44	.38	.51	.43	.38	.49	.43	.38	.48	.42	.37	.35
8.0	.48	.40	.34	.47	.40	.34	.46	.39	.34	.45	.38	.34	.44	.38	.33	.31
9.0	.44	.36	.31	.44	.36	.30	.42	.35	.30	.41	.35	.30	.40	.34	.30	.28
10.0	.41	.33	.28	.40	.33	.28	.39	.32	.27	.38	.32	.27	.37	.31	.27	.25



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.6DEG
 Operators:Derek Lai
 Test Date:11 October 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.362
 Humidity: 41.3%
 Test Distance:2.500m [K=1.0708]
 Remarks:

WEC AND CCEC

Test:U:120.0V I:1.256A P:150.1W PF:0.9959 Freq:60.01Hz Lamp Flux:21803.6x1 lm		
NAME: LED UFO	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SHENZHEN HOLDIED OPTO LTD	SUR.:	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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.274	.156	.049	.267	.152	.048	.254	.146	.047	.242	.140	.045	.231	.134	.043	
2.0	.267	.146	.045	.261	.144	.044	.250	.139	.043	.239	.134	.042	.229	.130	.041	
3.0	.253	.135	.040	.247	.133	.040	.237	.129	.039	.228	.125	.038	.219	.121	.038	
4.0	.237	.123	.036	.232	.122	.036	.223	.118	.035	.215	.115	.035	.207	.112	.034	
5.0	.222	.113	.033	.217	.112	.032	.209	.109	.032	.202	.106	.032	.195	.104	.031	
6.0	.207	.104	.030	.203	.103	.030	.196	.101	.029	.190	.098	.029	.183	.096	.029	
7.0	.194	.096	.027	.191	.095	.027	.184	.093	.027	.178	.091	.027	.173	.090	.026	
8.0	.182	.089	.025	.179	.088	.025	.173	.087	.025	.168	.085	.025	.163	.084	.024	
9.0	.171	.083	.023	.168	.082	.023	.163	.081	.023	.158	.079	.023	.154	.078	.023	
10.0	.161	.077	.021	.159	.077	.021	.154	.076	.021	.150	.074	.021	.146	.073	.021	

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.191	.191	.191	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.178	.157	.138	.153	.135	.119	.104	.093	.082	.060	.054	.048	.019	.017	.015	
2.0	.170	.133	.102	.145	.114	.088	.100	.079	.061	.057	.046	.036	.018	.015	.012	
3.0	.162	.115	.077	.139	.099	.067	.095	.069	.047	.055	.040	.028	.018	.013	.009	
4.0	.155	.101	.061	.133	.088	.053	.091	.061	.037	.053	.036	.022	.017	.012	.007	
5.0	.147	.091	.049	.127	.079	.043	.087	.055	.030	.051	.032	.018	.016	.011	.006	
6.0	.141	.083	.041	.121	.071	.035	.083	.050	.025	.048	.029	.015	.016	.010	.005	
7.0	.134	.076	.035	.115	.066	.030	.080	.046	.021	.046	.027	.013	.015	.009	.004	
8.0	.128	.070	.030	.110	.061	.026	.076	.043	.018	.044	.025	.011	.014	.008	.004	
9.0	.122	.065	.026	.105	.056	.023	.073	.040	.016	.043	.023	.010	.014	.008	.003	
10.0	.117	.061	.023	.101	.053	.020	.070	.037	.014	.041	.022	.009	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.6DEG
 Operators:Derek Lai
 Test Date:11 October 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.362
 Humidity: 41.3%
 Test Distance:2.500m [K=1.0708]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.0V I:1.256A P:150.1W PF:0.9959 Freq:60.01Hz Lamp Flux:21803.6x1 lm										
NAME: LED UFO					TYPE:LED			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: SHENZHEN HOLDIED OPTO LTD					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	20.3	21.7	20.5	21.9	22.1	20.3	21.8	20.6	22.0	22.2
3H	20.8	22.2	21.1	22.4	22.6	21.0	22.3	21.3	22.5	22.8
4H	20.9	22.2	21.2	22.4	22.7	21.1	22.3	21.4	22.6	22.8
6H	20.9	22.1	21.2	22.3	22.6	21.1	22.3	21.4	22.5	22.8
8H	20.8	22.0	21.2	22.3	22.5	21.0	22.2	21.4	22.5	22.8
12H	20.8	21.9	21.1	22.2	22.5	21.0	22.1	21.3	22.4	22.7
4H 2H	20.6	21.9	20.9	22.1	22.4	20.7	21.9	21.0	22.2	22.4
3H	21.3	22.4	21.6	22.7	23.0	21.4	22.5	21.7	22.8	23.1
4H	21.4	22.4	21.8	22.7	23.0	21.5	22.5	21.9	22.9	23.2
6H	21.4	22.3	21.8	22.6	23.0	21.6	22.5	22.0	22.8	23.2
8H	21.4	22.2	21.8	22.5	22.9	21.6	22.4	22.0	22.8	23.1
12H	21.3	22.1	21.7	22.5	22.9	21.5	22.3	22.0	22.7	23.1
8H 4H	21.4	22.2	21.8	22.6	22.9	21.5	22.3	21.9	22.7	23.1
6H	21.4	22.1	21.9	22.5	22.9	21.6	22.3	22.1	22.7	23.1
8H	21.4	22.0	21.9	22.4	22.9	21.6	22.2	22.1	22.6	23.1
12H	21.4	21.9	21.8	22.3	22.8	21.6	22.1	22.1	22.6	23.0
12H 4H	21.3	22.1	21.8	22.5	22.9	21.5	22.2	21.9	22.6	23.0
6H	21.4	22.0	21.8	22.4	22.9	21.6	22.2	22.0	22.6	23.0
8H	21.4	21.9	21.9	22.3	22.8	21.6	22.1	22.1	22.5	23.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				
1.5H	+ 0.5 / - 0.9					+ 0.5 / - 0.8				
2.0H	+ 0.8 / - 1.0					+ 0.7 / - 0.9				

CIE Pub.117, 21804 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 10.7)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.6DEG
 Operators:Derek Lai
 Test Date:11 October 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.362
 Humidity: 41.3%
 Test Distance:2.500m [K=1.0708]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.0V I:1.256A P:150.1W PF:0.9959 Freq:60.01Hz Lamp Flux:21803.6x1 lm		
NAME: LED UFO	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SHENZHEN HOLDIED OPTO LTD	SUR.:	Shielding Angle:

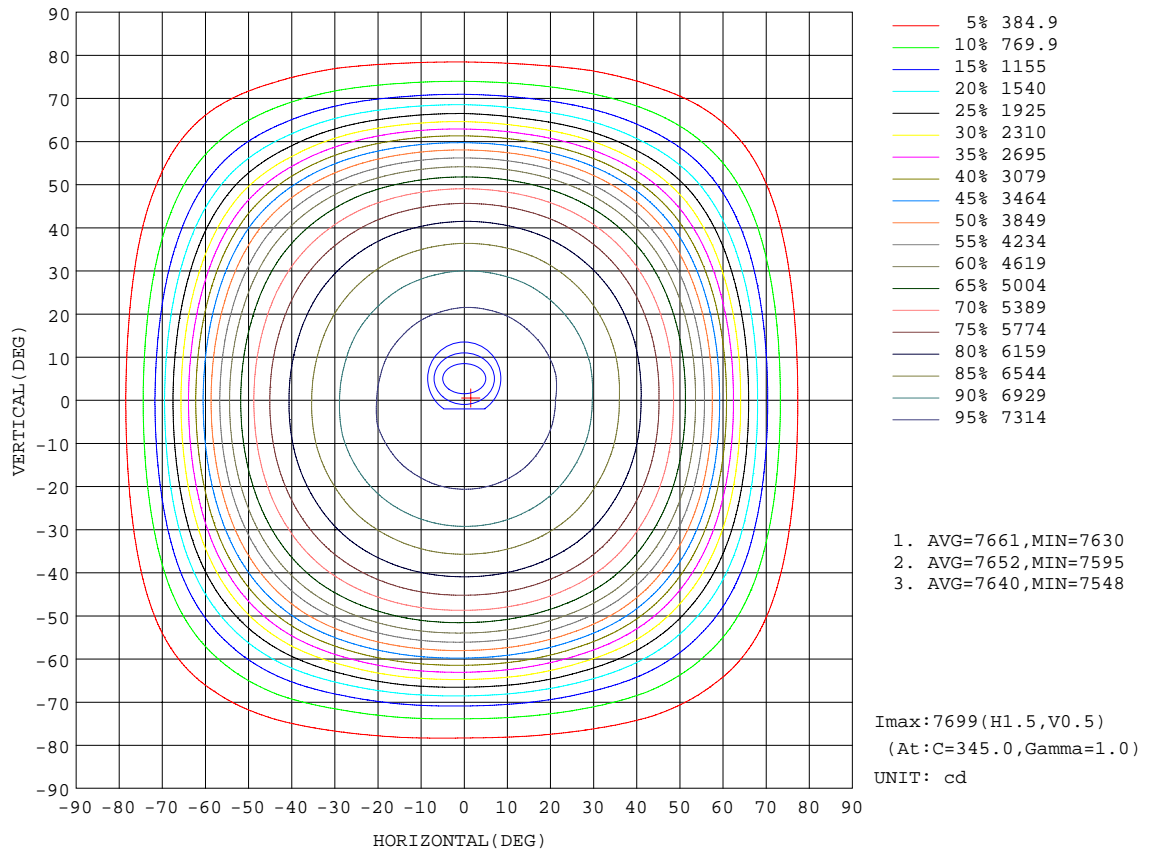
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	47	40	58	47	40	56	46	40	33
0.80	69	58	51	68	57	50	66	56	50	43
1.00	78	68	61	77	67	60	75	68	60	53
1.25	85	76	69	84	75	68	81	73	68	61
1.50	90	81	75	89	80	74	86	79	73	66
2.00	97	89	84	95	88	83	92	86	81	74
2.50	101	94	88	99	92	87	95	90	85	78
3.00	104	98	93	102	96	92	98	93	90	82
4.00	108	103	98	105	101	97	101	97	94	86
5.00	110	105	102	107	104	100	103	100	97	88
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: 24.6DEG
 Operators:Derek Lai
 Test Date:11 October 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.362
 Humidity: 41.3%
 Test Distance:2.500m [K=1.0708]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.0V I:1.256A P:150.1W PF:0.9959 Freq:60.01Hz Lamp Flux:21803.6x1 lm		
NAME: LED UFO	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SHENZHEN HOLDIED OPTO LTD	SUR.:	Shielding Angle:

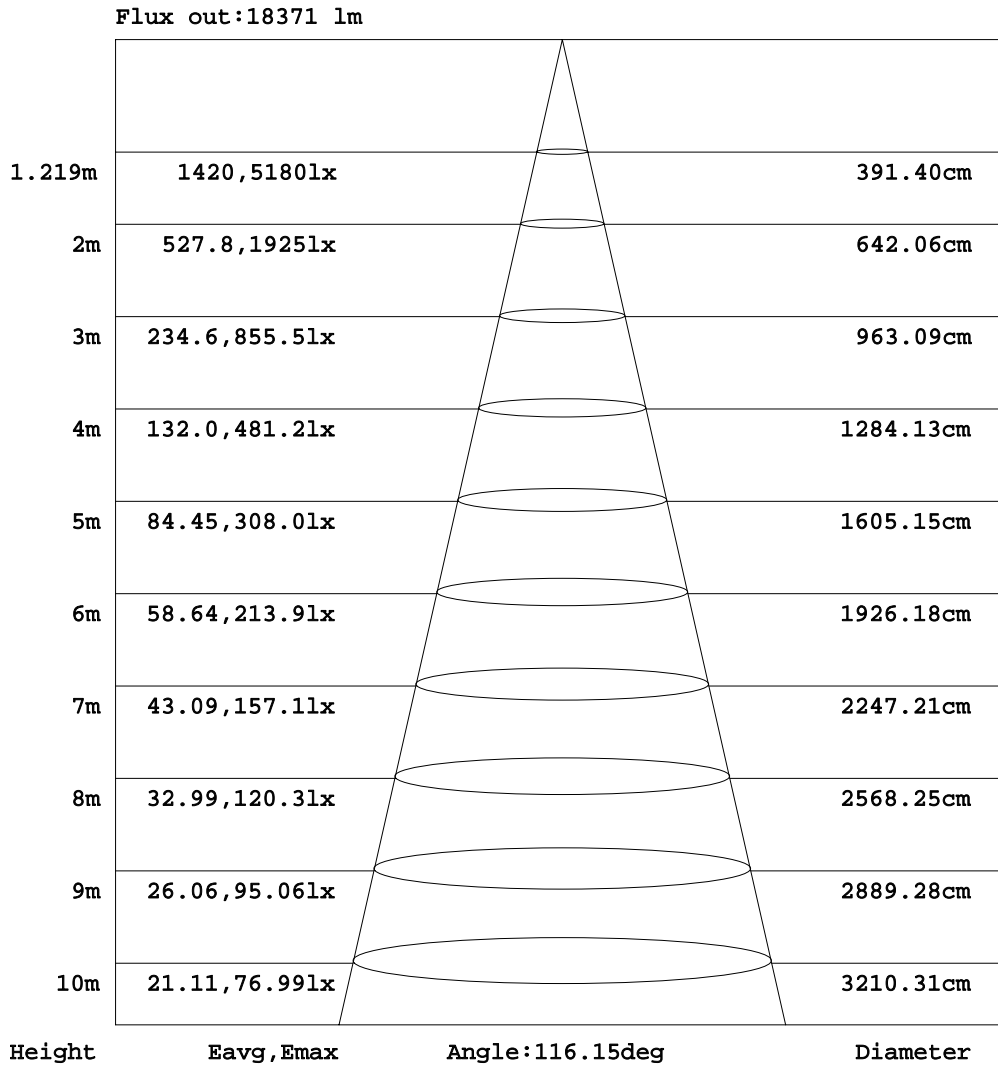


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.6DEG
 Operators: Derek Lai
 Test Date: 11 October 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.362
 Humidity: 41.3%
 Test Distance: 2.500m [K=1.0708]
 Remarks:

AAI Figure

Test:U:120.0V I:1.256A P:150.1W PF:0.9959 Freq:60.01Hz Lamp Flux:21803.6x1 lm		
NAME: LED UFO	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SHENZHEN HOLDIED OPTO LTD	SUR.:	Shielding Angle:



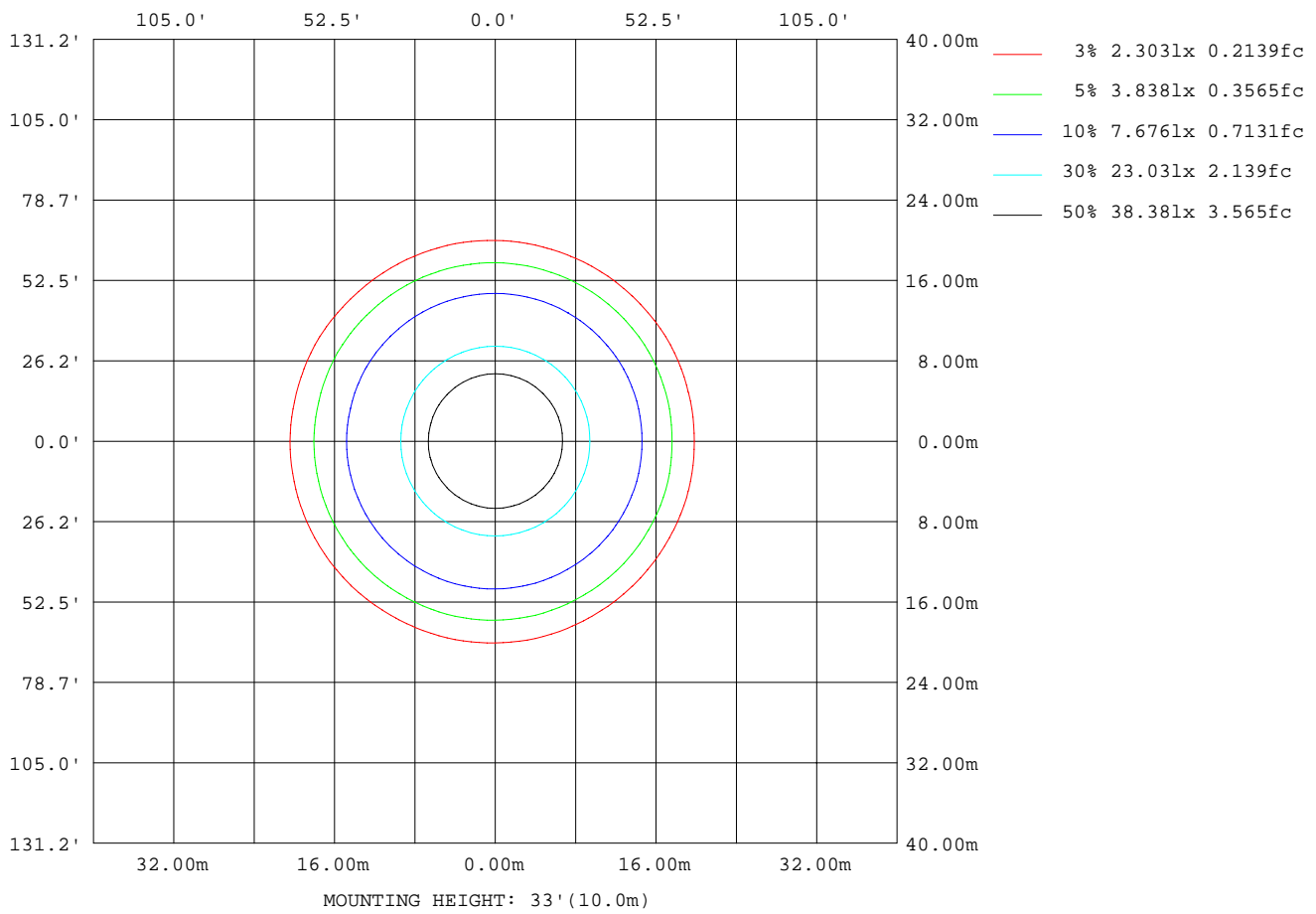
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.6DEG
 Operators:Derek Lai
 Test Date:11 October 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.362
 Humidity: 41.3%
 Test Distance:2.500m [K=1.0708]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.0V I:1.256A P:150.1W PF:0.9959 Freq:60.01Hz Lamp Flux:21803.6x1 lm		
NAME: LED UFO	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SHENZHEN HOLDIED OPTO LTD	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.6DEG
 Operators:Derek Lai
 Test Date:11 October 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.362
 Humidity: 41.3%
 Test Distance:2.500m [K=1.0708]
 Remarks:

LED Avg.L Report

Test:U:120.0V I:1.256A P:150.1W PF:0.9959 Freq:60.01Hz Lamp Flux:21803.6x1 lm		
NAME: LED UFO	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SHENZHEN HOLDIED OPTO LTD	SUR.:	Shielding Angle:

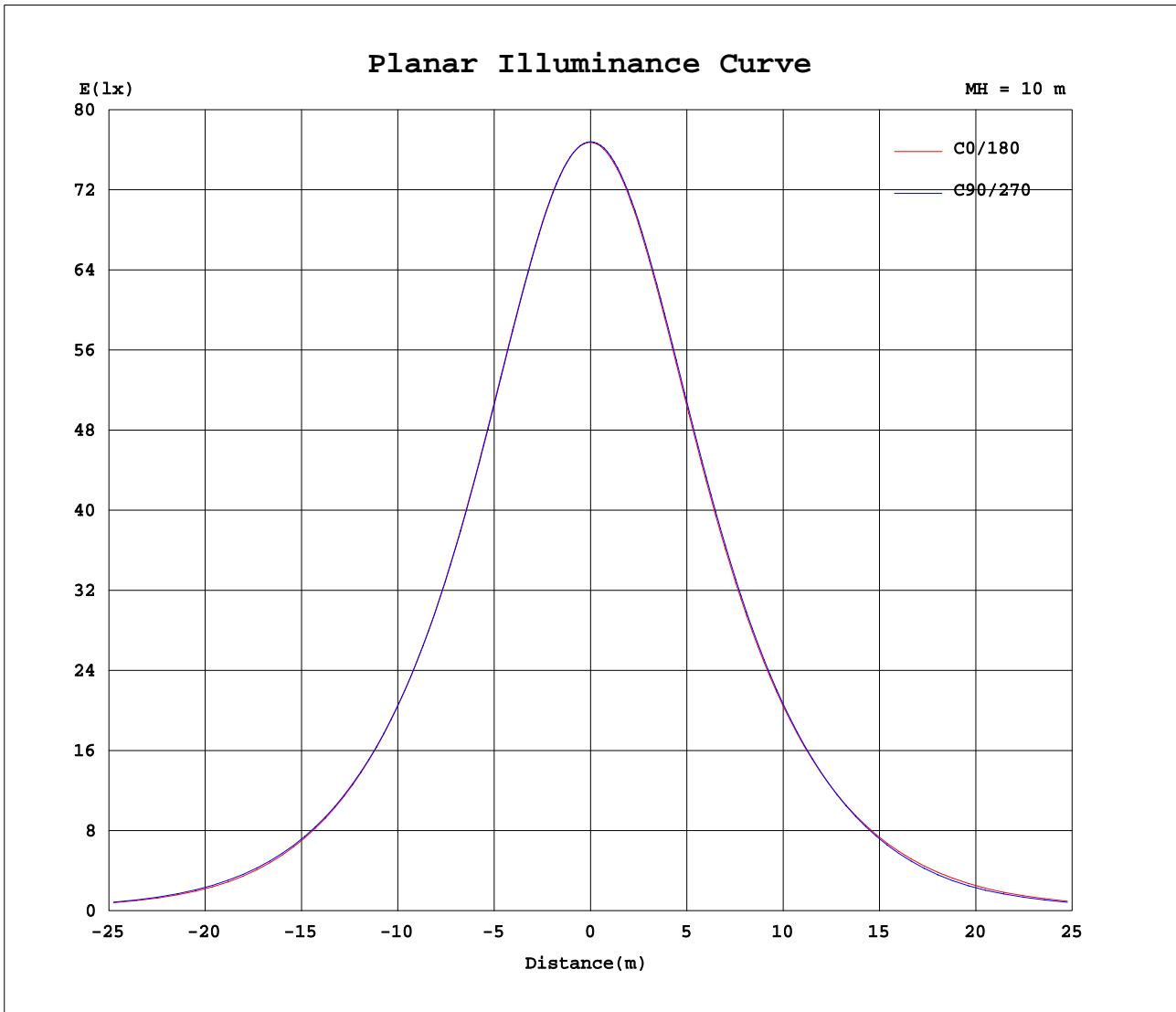
AvgL	cd/m2
L_0~180(65)av	130359
L_0~180(75)av	59639
L_0~180(85)av	11349
L_90~270(65)av	127861
L_90~270(75)av	60887
L_90~270(85)av	20372
L_45(65)av	128040
L_45(75)av	60738
L_45(85)av	14462

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.6DEG
 Operators:Derek Lai
 Test Date:11 October 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.362
 Humidity: 41.3%
 Test Distance:2.500m [K=1.0708]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 24.6DEG
Operators: Derek Lai
Test Date: 11 October 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.362
Humidity: 41.3%
Test Distance: 2.500m [K=1.0708]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:1.256A P:150.1W PF:0.9959 Freq:60.01Hz Lamp Flux:21803.6x1 lm		
NAME: LED UFO	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SHENZHEN HOLDIED OPTO LTD	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	7682	7682	7682	7682	7682	7682	7682	7682	7682	7682	7682	7682	7682	7682	7682	7682	7682	7682	7682	7682
5	7669	7670	7669	7666	7665	7665	7663	7660	7659	7660	7659	7661	7660	7660	7663	7663	7666	7666	7670	7670
10	7615	7615	7611	7610	7609	7604	7602	7599	7598	7597	7597	7597	7600	7599	7605	7604	7611	7612	7616	7616
15	7513	7513	7507	7506	7500	7497	7494	7490	7487	7486	7484	7486	7488	7488	7494	7497	7506	7510	7518	7518
20	7361	7362	7356	7354	7347	7343	7338	7334	7328	7329	7325	7329	7331	7331	7340	7344	7356	7360	7369	7369
25	7166	7167	7158	7156	7147	7143	7137	7133	7127	7127	7124	7126	7126	7126	7140	7144	7159	7165	7175	7175
30	6917	6921	6910	6909	6900	6896	6889	6885	6879	6877	6871	6875	6876	6877	6891	6895	6913	6920	6931	6931
35	6614	6620	6609	6611	6602	6598	6592	6589	6580	6581	6571	6573	6574	6576	6593	6598	6617	6624	6637	6637
40	6244	6256	6248	6254	6246	6240	6235	6235	6229	6227	6214	6213	6215	6219	6238	6246	6265	6270	6280	6280
45	5796	5811	5806	5816	5806	5802	5797	5806	5803	5803	5789	5783	5786	5790	5814	5820	5835	5834	5839	5839
50	5198	5220	5216	5235	5220	5225	5228	5249	5257	5268	5250	5243	5249	5249	5270	5266	5273	5263	5262	5262
55	4374	4401	4399	4420	4406	4426	4442	4477	4506	4534	4525	4519	4528	4518	4538	4513	4505	4474	4461	4461
60	3279	3312	3301	3325	3323	3384	3422	3467	3500	3559	3566	3569	3587	3561	3568	3509	3471	3427	3398	3398
65	2117	2151	2110	2154	2155	2232	2258	2303	2313	2387	2415	2445	2456	2418	2414	2309	2300	2251	2227	2227
70	1209	1232	1200	1232	1240	1276	1296	1324	1330	1372	1380	1431	1447	1396	1381	1336	1342	1308	1295	1295
75	573	590	583	632	628	654	650	677	672	696	665	697	708	671	674	681	688	670	658	658
80	210	226	225	256	272	289	281	296	295	291	266	282	284	262	280	277	302	294	296	296
85	41.8	26.1	20.6	47.4	59.4	68.6	71.9	74.8	72.0	67.2	47.1	46.5	40.3	64.0	53.4	60.5	74.0	83.6	75.5	75.5
90	0.31	0.29	0.31	0.29	0.31	0.28	0.30	0.27	0.29	0.27	0.28	0.26	0.78	0.79	0.80	0.79	0.79	0.86	0.83	0.83
95	0.46	0.44	0.45	0.45	0.45	0.43	0.44	0.41	0.42	0.41	0.41	0.39	1.18	1.19	1.19	1.22	1.22	1.25	1.26	1.26
100	0.62	0.61	0.62	0.61	0.63	0.63	0.61	0.60	0.61	0.59	0.59	0.56	1.66	1.67	1.68	1.71	1.72	1.77	1.76	1.76
105	0.80	0.80	0.80	0.79	0.82	0.81	0.80	0.80	0.80	0.78	0.78	0.75	2.07	2.09	2.10	2.16	2.19	2.24	2.24	2.24
110	1.05	1.01	1.02	0.99	1.02	1.04	1.05	1.04	1.05	1.02	1.04	0.97	2.23	2.26	2.29	2.36	2.41	2.46	2.47	2.47
115	1.41	1.35	1.33	1.29	1.37	1.35	1.35	1.35	1.38	1.35	1.35	1.30	2.41	2.43	2.44	2.51	2.57	2.60	2.61	2.61
120	1.87	1.80	1.77	1.70	1.82	1.69	1.76	1.76	1.80	1.75	1.80	1.72	2.80	2.80	2.76	2.81	2.86	2.85	2.86	2.86
125	2.40	2.34	2.26	2.30	2.35	2.26	2.24	2.21	2.26	2.27	2.28	2.21	3.28	3.29	3.24	3.37	3.38	3.41	3.41	3.41
130	2.92	2.87	2.97	2.79	2.97	2.90	2.81	2.77	2.87	2.77	2.85	2.80	3.95	4.01	4.09	4.12	4.18	4.15	4.13	4.13
135	3.53	3.56	3.49	3.31	3.38	3.49	3.42	3.37	3.36	3.30	3.35	3.41	4.62	4.77	4.82	4.98	4.90	4.81	4.83	4.83
140	3.94	4.07	3.89	3.91	3.88	3.94	3.86	3.82	3.81	3.83	3.69	3.69	5.14	5.28	5.40	5.64	5.61	5.49	5.44	5.44
145	4.16	4.40	4.23	4.18	4.31	4.22	4.19	4.17	4.24	4.09	4.02	4.08	5.81	5.95	5.96	6.17	6.30	6.20	6.21	6.21
150	4.40	4.65	4.50	4.30	4.28	4.43	4.36	4.37	4.34	4.37	4.41	4.43	6.42	6.41	6.58	6.79	6.81	6.77	6.69	6.69
155	4.57	4.83	4.98	4.64	4.45	4.50	4.33	4.51	4.58	4.73	4.96	4.73	6.88	7.00	7.35	7.30	7.18	7.12	6.92	6.92
160	5.12	5.21	5.11	5.12	4.76	4.68	4.47	4.73	4.91	5.21	5.26	5.08	7.53	7.66	7.76	7.89	7.57	7.32	7.09	7.09
165	5.19	5.41	5.54	5.62	5.28	5.24	5.02	5.10	5.32	5.24	5.19	5.24	7.41	7.64	7.68	7.76	7.71	7.35	7.31	7.31
170	5.60	5.79	5.94	5.93	5.49	5.54	5.39	5.16	5.59	5.54	5.44	5.35	7.15	7.28	7.51	7.59	7.38	7.00	7.10	7.10
175	6.17	6.31	6.32	6.32	6.05	6.10	5.77	5.66	5.90	5.91	5.99	6.06	6.94	7.04	7.03	7.03	7.04	6.66	6.63	6.63
180	6.51	6.62	6.59	6.54	6.34	6.23	6.20	5.88	5.99	6.15	6.26	6.42	6.51	6.62	6.59	6.54	6.35	6.24	6.21	6.21

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.6DEG
 Operators:Derek Lai
 Test Date:11 October 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.362
 Humidity: 41.3%
 Test Distance:2.500m [K=1.0708]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:1.256A P:150.1W PF:0.9959 Freq:60.01Hz Lamp Flux:21803.6x1 lm		
NAME: LED UFO	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SHENZHEN HOLDIED OPTO LTD	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG)\ γ (DEG)	285	300	315	330	345														
0	7682	7682	7682	7682	7682														
5	7669	7670	7672	7673	7672														
10	7618	7619	7620	7620	7620														
15	7517	7519	7521	7521	7519														
20	7370	7374	7372	7374	7371														
25	7176	7179	7178	7179	7174														
30	6931	6939	6934	6934	6929														
35	6636	6643	6638	6636	6628														
40	6279	6284	6276	6275	6261														
45	5837	5842	5830	5824	5808														
50	5260	5259	5243	5233	5212														
55	4450	4444	4423	4414	4382														
60	3361	3348	3335	3333	3291														
65	2148	2156	2133	2168	2120														
70	1252	1239	1203	1224	1220														
75	641	636	601	587	587														
80	281	283	237	233	211														
85	73.9	56.4	34.1	30.1	6.68														
90	0.84	0.84	0.86	0.86	0.87														
95	1.29	1.29	1.34	1.32	1.34														
100	1.81	1.81	1.84	1.84	1.83														
105	2.28	2.28	2.29	2.25	2.23														
110	2.49	2.48	2.49	2.40	2.37														
115	2.63	2.61	2.58	2.53	2.53														
120	2.86	2.84	2.80	2.80	2.86														
125	3.37	3.25	3.30	3.21	3.31														
130	4.08	3.99	3.95	4.04	4.01														
135	4.72	4.63	4.69	4.67	4.73														
140	5.25	5.34	5.39	5.24	5.34														
145	5.99	5.98	5.98	5.82	6.07														
150	6.66	6.47	6.50	6.52	6.57														
155	6.96	6.99	7.04	7.29	6.97														
160	7.15	7.28	7.52	7.55	7.55														
165	7.44	7.29	7.50	7.55	7.46														
170	7.29	6.90	7.23	7.39	7.25														
175	6.85	6.55	6.82	6.87	7.00														
180	5.88	5.99	6.15	6.25	6.42														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.6DEG
 Operators:Derek Lai
 Test Date:11 October 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.362
 Humidity: 41.3%
 Test Distance:2.500m [K=1.0708]
 Remarks:

Photometric Data Table [cd]

G/C	0.0	15.0	30.0	45.0	60.0	75.0	90.0	105.0	120.0	135.0
0.0	7682	7682	7682	7682	7682	7682	7682	7682	7682	7682
3.0	7678	7681	7678	7676	7674	7675	7676	7673	7674	7672
6.0	7662	7663	7661	7659	7658	7656	7654	7651	7651	7651
9.0	7628	7630	7626	7625	7623	7620	7619	7615	7615	7613
12.0	7580	7579	7575	7573	7571	7567	7565	7561	7560	7558
15.0	7513	7513	7507	7506	7500	7497	7494	7490	7487	7486
18.0	7427	7427	7422	7421	7415	7409	7405	7401	7395	7396
21.0	7326	7327	7319	7318	7312	7307	7303	7297	7292	7293
24.0	7209	7210	7202	7198	7191	7186	7181	7177	7171	7172
27.0	7071	7074	7063	7062	7054	7050	7044	7039	7032	7033
30.0	6917	6921	6910	6909	6900	6896	6889	6885	6879	6877
33.0	6742	6747	6736	6736	6728	6723	6717	6712	6706	6704
36.0	6547	6553	6543	6544	6538	6533	6527	6523	6515	6515
39.0	6325	6335	6326	6330	6325	6318	6311	6311	6304	6303
42.0	6078	6091	6082	6090	6083	6078	6072	6075	6069	6068
45.0	5796	5811	5806	5816	5806	5802	5797	5806	5803	5803
48.0	5460	5482	5479	5491	5482	5479	5478	5493	5497	5500
51.0	5051	5077	5072	5092	5079	5083	5091	5115	5126	5139
54.0	4558	4589	4583	4605	4590	4605	4619	4651	4676	4698
57.0	3967	3996	3991	4016	4005	4039	4061	4101	4134	4177
60.0	3279	3312	3301	3325	3323	3384	3422	3467	3500	3559
63.0	2556	2584	2569	2592	2607	2673	2717	2755	2784	2853
66.0	1912	1935	1898	1935	1946	2021	2039	2088	2087	2161
69.0	1380	1391	1352	1384	1400	1436	1464	1493	1499	1546
72.0	932.3	936.3	934.5	962.6	957.9	987.6	1011	1030	1039	1060
75.0	573.3	589.7	583.1	631.6	628.1	653.7	649.9	677.2	671.5	695.7
78.0	334.2	345.2	343.4	382.1	390.4	404.9	404.6	424.8	421.3	424.9
81.0	156.4	165.7	172.9	197.6	218.9	236.8	232.7	246.1	240.6	233.2
84.0	62.14	50.38	55.60	70.39	93.51	103.9	103.3	111.0	101.9	89.44
87.0	1.202	1.111	7.310	1.894	6.311	23.17	9.194	25.18	12.62	22.72
90.0	0.3110	0.2908	0.3104	0.2888	0.3054	0.2843	0.2983	0.2738	0.2852	0.2656
93.0	0.3964	0.3732	0.3947	0.3726	0.3881	0.3657	0.3798	0.3524	0.3656	0.3411
96.0	0.4910	0.4706	0.4869	0.4938	0.5167	0.4694	0.4703	0.4464	0.4784	0.4559
99.0	0.5907	0.5766	0.5892	0.5802	0.6010	0.5943	0.5758	0.5646	0.5765	0.5539
102.0	0.6967	0.6900	0.6915	0.6830	0.7014	0.7017	0.6890	0.6814	0.6791	0.6639
105.0	0.8035	0.7964	0.7969	0.7876	0.8155	0.8129	0.8036	0.8008	0.8020	0.7817
108.0	0.9335	0.9180	0.9171	0.8990	0.9386	0.9410	0.9438	0.9367	0.9441	0.9157
111.0	1.103	1.049	1.074	1.036	1.068	1.090	1.104	1.094	1.107	1.078
114.0	1.316	1.256	1.259	1.214	1.282	1.274	1.281	1.279	1.302	1.274
117.0	1.579	1.521	1.493	1.437	1.542	1.480	1.497	1.504	1.535	1.506
120.0	1.866	1.797	1.768	1.701	1.821	1.693	1.757	1.761	1.799	1.750
123.0	2.175	2.132	2.055	2.063	2.143	2.015	2.045	2.032	2.071	2.050
126.0	2.496	2.440	2.378	2.401	2.460	2.390	2.338	2.315	2.356	2.382
129.0	2.817	2.765	2.834	2.689	2.849	2.767	2.679	2.641	2.733	2.677
132.0	3.149	3.153	3.175	3.015	3.110	3.178	3.073	3.030	3.070	2.986
135.0	3.531	3.563	3.494	3.314	3.381	3.488	3.420	3.370	3.356	3.300
138.0	3.819	3.909	3.721	3.747	3.712	3.760	3.694	3.628	3.630	3.609
141.0	3.938	3.969	3.958	3.953	3.979	4.012	3.936	3.906	3.898	3.912
144.0	4.072	4.339	4.144	4.132	4.264	4.167	4.113	4.110	4.182	4.052
147.0	4.238	4.498	4.360	4.218	4.319	4.341	4.270	4.277	4.309	4.193
150.0	4.398	4.653	4.496	4.303	4.278	4.433	4.359	4.370	4.343	4.366
153.0	4.467	4.709	4.752	4.443	4.306	4.454	4.352	4.450	4.454	4.577
156.0	4.666	4.936	5.019	4.691	4.490	4.517	4.324	4.556	4.629	4.819
159.0	5.075	5.212	5.094	5.014	4.707	4.612	4.444	4.702	4.851	5.126
162.0	5.060	5.185	5.234	5.307	4.930	4.846	4.627	4.827	5.123	5.182
165.0	5.192	5.408	5.544	5.624	5.276	5.243	5.018	5.097	5.321	5.235
168.0	5.521	5.730	5.874	5.873	5.502	5.494	5.296	5.295	5.560	5.490
171.0	5.551	5.749	5.902	5.925	5.493	5.553	5.392	5.077	5.568	5.548
174.0	5.956	6.103	6.107	6.137	5.846	5.926	5.631	5.463	5.717	5.746
177.0	6.343	6.521	6.475	6.493	6.168	6.200	5.913	5.754	6.058	6.090
180.0	6.513	6.620	6.591	6.543	6.336	6.234	6.202	5.877	5.989	6.149
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	7682	7682	7682	7682	7682	7682	7682	7682	7682	7682
3.0	7672	7673	7673	7673	7675	7674	7676	7676	7677	7678
6.0	7649	7651	7651	7651	7655	7655	7659	7659	7662	7662
9.0	7612	7614	7615	7616	7620	7620	7626	7627	7631	7632
12.0	7556	7559	7559	7561	7568	7568	7575	7577	7582	7583
15.0	7484	7486	7488	7488	7494	7497	7506	7510	7518	7517
18.0	7394	7397	7399	7400	7408	7412	7422	7426	7434	7434
21.0	7289	7293	7294	7294	7306	7308	7320	7324	7334	7333
24.0	7168	7170	7172	7171	7185	7189	7203	7209	7218	7218
27.0	7027	7030	7031	7031	7046	7050	7065	7072	7083	7084
30.0	6871	6875	6876	6877	6891	6895	6913	6920	6931	6931

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.6DEG
 Operators: Derek Lai
 Test Date: 11 October 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.362
 Humidity: 41.3%
 Test Distance: 2.500m [K=1.0708]
 Remarks:

Photometric Data Table [cd]

33.0	6697	6698	6700	6702	6718	6722	6742	6749	6761	6762
36.0	6505	6507	6507	6509	6527	6534	6553	6560	6570	6571
39.0	6290	6291	6292	6293	6315	6323	6339	6347	6355	6356
42.0	6055	6051	6052	6057	6078	6086	6105	6107	6117	6114
45.0	5789	5783	5786	5790	5814	5820	5835	5834	5839	5837
48.0	5487	5477	5482	5486	5507	5507	5518	5512	5516	5514
51.0	5122	5113	5120	5119	5141	5133	5138	5124	5124	5115
54.0	4685	4679	4689	4680	4700	4683	4677	4653	4643	4634
57.0	4168	4168	4181	4163	4183	4146	4126	4087	4067	4051
60.0	3566	3569	3587	3561	3568	3509	3471	3427	3398	3361
63.0	2882	2903	2912	2880	2876	2785	2749	2709	2666	2611
66.0	2186	2234	2247	2192	2190	2088	2089	2037	2022	1937
69.0	1560	1617	1629	1579	1560	1499	1505	1470	1459	1405
72.0	1054	1096	1107	1065	1061	1033	1045	1025	1004	986.4
75.0	664.6	696.6	707.9	671.4	674.3	681.0	688.5	669.7	658.1	641.1
78.0	406.7	414.5	420.2	393.9	408.9	409.1	431.9	418.1	413.0	402.1
81.0	212.6	220.4	222.2	204.1	221.7	218.8	247.4	241.3	243.6	230.6
84.0	81.56	69.05	74.36	84.60	78.62	93.72	108.5	114.4	110.3	105.3
87.0	8.174	2.030	2.583	22.93	3.201	6.897	26.51	22.22	25.67	11.02
90.0	0.2793	0.2583	0.7759	0.7854	0.7957	0.7949	0.7943	0.8581	0.8266	0.8435
93.0	0.3534	0.3295	0.9968	1.011	1.006	1.032	1.035	1.066	1.075	1.098
96.0	0.4456	0.4196	1.275	1.289	1.280	1.338	1.311	1.349	1.357	1.389
99.0	0.5565	0.5236	1.565	1.578	1.587	1.619	1.632	1.676	1.662	1.709
102.0	0.6668	0.6334	1.844	1.864	1.853	1.901	1.916	1.969	1.959	2.005
105.0	0.7837	0.7476	2.074	2.091	2.105	2.157	2.189	2.237	2.235	2.276
108.0	0.9284	0.8755	2.170	2.207	2.234	2.298	2.346	2.388	2.400	2.423
111.0	1.092	1.031	2.256	2.292	2.319	2.393	2.445	2.489	2.498	2.519
114.0	1.281	1.224	2.368	2.392	2.402	2.479	2.533	2.572	2.582	2.598
117.0	1.519	1.454	2.559	2.569	2.556	2.609	2.661	2.679	2.689	2.696
120.0	1.797	1.724	2.797	2.798	2.760	2.808	2.861	2.851	2.860	2.860
123.0	2.086	2.003	3.029	3.062	2.998	3.089	3.152	3.146	3.107	3.137
126.0	2.375	2.325	3.387	3.413	3.380	3.497	3.510	3.536	3.566	3.500
129.0	2.739	2.686	3.797	3.860	3.881	3.938	4.005	3.977	3.975	3.931
132.0	3.088	3.047	4.217	4.293	4.426	4.461	4.455	4.465	4.452	4.389
135.0	3.351	3.407	4.617	4.767	4.815	4.977	4.901	4.807	4.832	4.717
138.0	3.571	3.607	4.990	5.097	5.161	5.402	5.323	5.226	5.145	5.021
141.0	3.756	3.747	5.261	5.396	5.511	5.753	5.767	5.627	5.592	5.372
144.0	3.952	4.027	5.666	5.851	5.834	6.058	6.192	6.044	6.076	5.810
147.0	4.160	4.286	6.012	6.259	6.165	6.378	6.518	6.460	6.466	6.346
150.0	4.411	4.430	6.418	6.409	6.585	6.786	6.812	6.770	6.688	6.660
153.0	4.744	4.613	6.657	6.758	7.003	7.072	7.018	7.006	6.920	6.880
156.0	5.052	4.822	7.028	7.188	7.491	7.425	7.252	7.118	6.906	7.005
159.0	5.228	5.076	7.455	7.613	7.717	7.792	7.498	7.269	7.047	7.145
162.0	5.289	5.110	7.490	7.568	7.755	7.821	7.620	7.318	7.107	7.206
165.0	5.188	5.243	7.412	7.643	7.676	7.758	7.714	7.352	7.307	7.438
168.0	5.322	5.341	7.178	7.399	7.505	7.676	7.574	7.188	7.183	7.366
171.0	5.485	5.427	7.219	7.382	7.501	7.558	7.368	6.911	7.018	7.277
174.0	5.771	5.825	7.071	7.165	7.133	7.053	7.112	6.732	6.653	7.026
177.0	6.218	6.311	6.772	6.899	6.891	6.846	6.787	6.556	6.527	6.516
180.0	6.260	6.420	6.512	6.618	6.587	6.544	6.347	6.242	6.210	5.884
G/C	300.0	315.0	330.0	345.0						
0.0	7682	7682	7682	7682						
3.0	7679	7680	7680	7679						
6.0	7665	7664	7665	7666						
9.0	7634	7635	7634	7634						
12.0	7584	7584	7586	7585						
15.0	7519	7521	7521	7519						
18.0	7436	7437	7439	7436						
21.0	7338	7336	7339	7334						
24.0	7222	7220	7222	7218						
27.0	7089	7086	7088	7083						
30.0	6939	6934	6934	6929						
33.0	6769	6764	6765	6756						
36.0	6577	6571	6569	6561						
39.0	6362	6355	6354	6340						
42.0	6119	6109	6105	6088						
45.0	5842	5830	5824	5808						
48.0	5517	5501	5492	5474						
51.0	5117	5101	5090	5068						
54.0	4629	4608	4599	4570						
57.0	4041	4019	4013	3981						
60.0	3348	3335	3333	3291						
63.0	2597	2596	2608	2571						
66.0	1937	1914	1949	1913						

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.6DEG
 Operators:Derek Lai
 Test Date:11 October 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.362
 Humidity: 41.3%
 Test Distance:2.500m [K=1.0708]
 Remarks:

Photometric Data Table [cd]

69.0	1395	1358	1384	1375
72.0	961.4	942.7	934.1	941.1
75.0	635.6	601.3	586.9	586.9
78.0	397.1	362.6	350.4	338.0
81.0	227.3	189.8	173.8	159.0
84.0	91.39	67.50	58.39	40.86
87.0	19.49	6.014	1.442	1.579
90.0	0.8425	0.8612	0.8597	0.8708
93.0	1.099	1.127	1.124	1.140
96.0	1.417	1.446	1.423	1.438
99.0	1.716	1.742	1.736	1.733
102.0	2.004	2.030	2.032	2.012
105.0	2.278	2.292	2.255	2.232
108.0	2.419	2.426	2.354	2.325
111.0	2.505	2.508	2.423	2.396
114.0	2.578	2.556	2.495	2.491
117.0	2.679	2.642	2.623	2.664
120.0	2.840	2.801	2.796	2.862
123.0	3.053	3.033	2.987	3.106
126.0	3.377	3.422	3.354	3.431
129.0	3.856	3.814	3.864	3.858
132.0	4.216	4.234	4.316	4.314
135.0	4.627	4.686	4.674	4.730
138.0	5.025	5.155	4.996	5.159
141.0	5.493	5.497	5.350	5.367
144.0	5.914	5.859	5.696	5.942
147.0	6.199	6.192	6.091	6.266
150.0	6.470	6.496	6.516	6.571
153.0	6.742	6.808	6.978	6.796
156.0	7.069	7.146	7.376	7.216
159.0	7.220	7.446	7.525	7.542
162.0	7.333	7.514	7.522	7.443
165.0	7.291	7.501	7.549	7.456
168.0	7.160	7.376	7.496	7.358
171.0	6.892	7.199	7.359	7.225
174.0	6.674	6.873	6.961	7.064
177.0	6.315	6.583	6.615	6.710
180.0	5.995	6.152	6.251	6.422

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.6DEG
 Operators:Derek Lai
 Test Date:11 October 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.362
 Humidity: 41.3%
 Test Distance:2.500m [K=1.0708]
 Remarks: