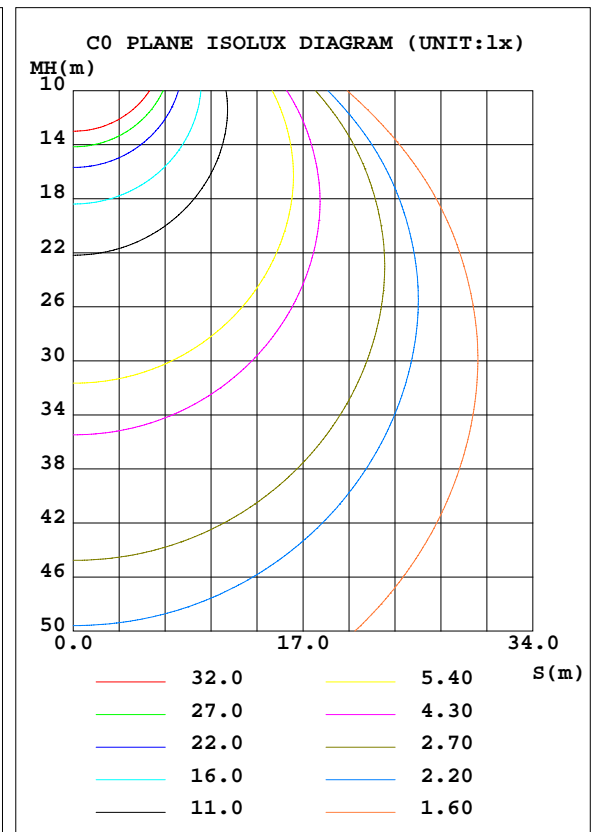
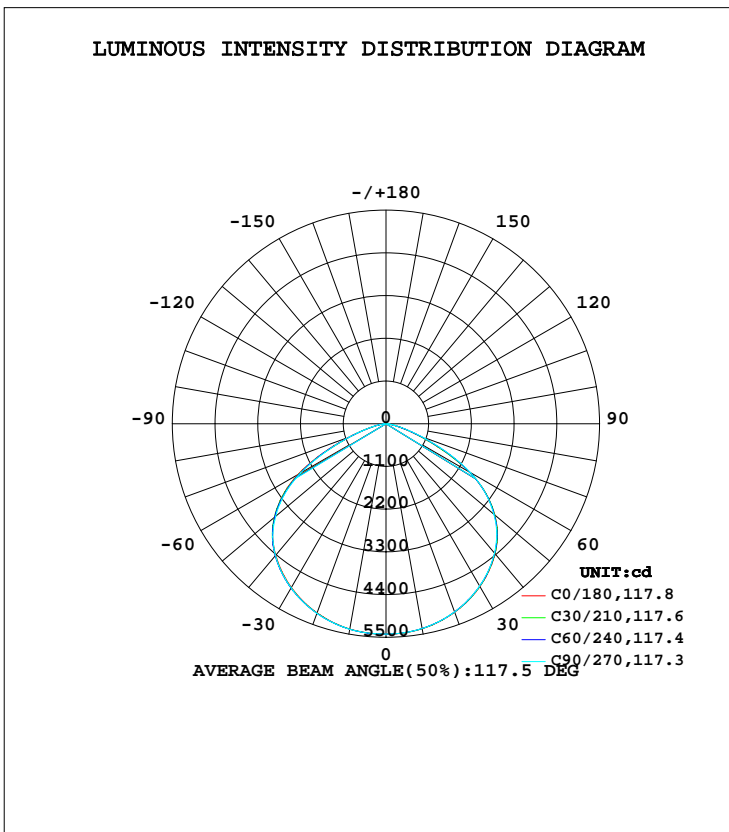


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.8480A P:100.9W PF:0.9913 Freq:60.01Hz Lamp Flux:15512.5x1 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: 153.77 lm/W			
MODEL	HD-IW-W100W-A00E	Imax(cd)	5418	S/MH(C0/180)	1.34
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH(C90/270)	1.34
RATED VOLTAGE(V)	100-277	TOTAL FLUX(lm)	15512	η UP, DN(C0-180)	0.0,49.7
NOMINAL FLUX(lm)	15512.5	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1,50.2
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: 24.5DEG
 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: 40.6%
 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	5359	5357	5355	5359	5368	5372	5372	5366	0- 10	514.7	514.7	3.32,3.32
20	5165	5161	5157	5168	5186	5194	5195	5182	10- 20	1494	2009	12.9,12.9
30	4839	4833	4824	4840	4871	4884	4885	4867	20- 30	2322	4331	27.9,27.9
40	4369	4361	4346	4377	4418	4435	4428	4410	30- 40	2907	7238	46.7,46.7
50	3652	3654	3627	3690	3744	3746	3709	3707	40- 50	3147	10385	66.9,66.9
60	2468	2491	2498	2557	2618	2571	2536	2499	50- 60	2826	13211	85.2,85.2
70	909.1	927.7	982.6	977.3	1029	994.3	996.4	919.5	60- 70	1695	14906	96.1,96.1
80	154.8	172.8	193.1	190.3	195.7	196.8	217.6	175.6	70- 80	531.6	15438	99.5,99.5
90	0.1766	0.1653	0.1792	0.1554	0.5542	0.5600	0.5629	0.5703	80- 90	61.70	15500	99.9,99.9
100	0.4100	0.4078	0.4161	0.4015	1.196	1.254	1.249	1.275	90-100	0.6392	15500	99.9,99.9
110	0.7134	0.6789	0.7283	0.7152	1.586	1.679	1.731	1.727	100-110	1.093	15501	99.9,99.9
120	1.303	1.176	1.235	1.233	1.967	1.961	1.990	1.946	110-120	1.359	15503	99.9,99.9
130	2.052	1.928	1.958	1.942	2.767	2.850	2.889	2.752	120-130	1.761	15504	99.9,99.9
140	2.786	2.738	2.708	2.670	3.616	3.927	3.780	3.750	130-140	2.194	15507	100,100
150	3.076	3.006	3.036	3.044	4.477	4.723	4.647	4.566	140-150	2.222	15509	100,100
160	3.570	3.552	3.125	3.601	5.260	5.488	4.991	5.253	150-160	1.890	15511	100,100
170	3.883	4.107	3.786	3.875	5.040	5.318	5.001	5.066	160-170	1.259	15512	100,100
180	4.573	4.626	4.398	4.317	4.569	4.629	4.401	4.321	170-180	0.4284	15512	100,100
DEG	LUMINOUS INTENSITY:cd Less than 35% Percent = 8.0 %									UNIT:lm		

Conical surface Flux(90deg): 8810.3 lm

%lum = 56.8%
 %lamp = 56.8%

Conical surface Flux(120deg): 13211 lm

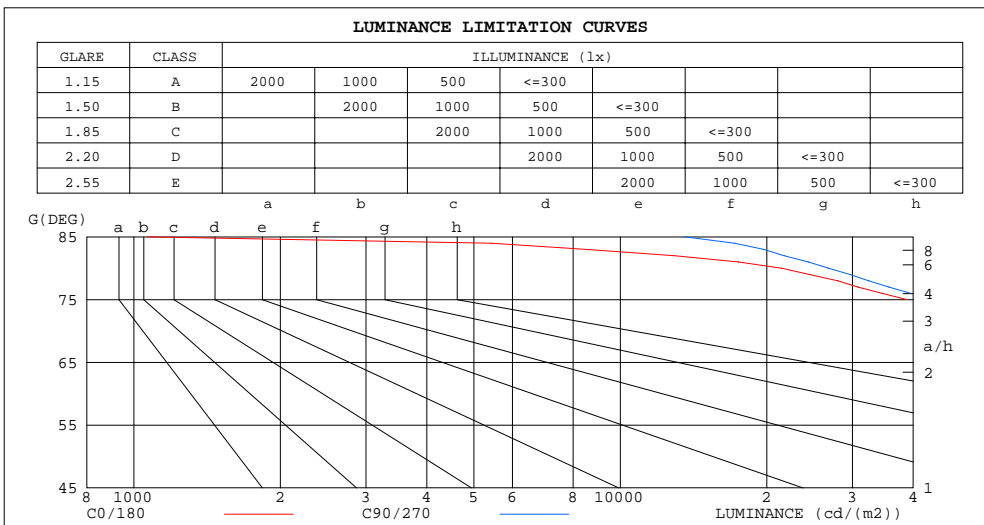
%lum = 85.2%
 %lamp = 85.2%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 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: 40.6%
 Test Distance:2.500m [K=1.0708]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.0V I:0.8480A P:100.9W PF:0.9913 Freq:60.01Hz Lamp Flux:15512.5x1 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	1067	13575
80	21455	26787
75	38818	43954
70	63960	69222
65	92936	97059
60	118781	120358
55	131941	131535
50	136722	135948
45	138164	137439

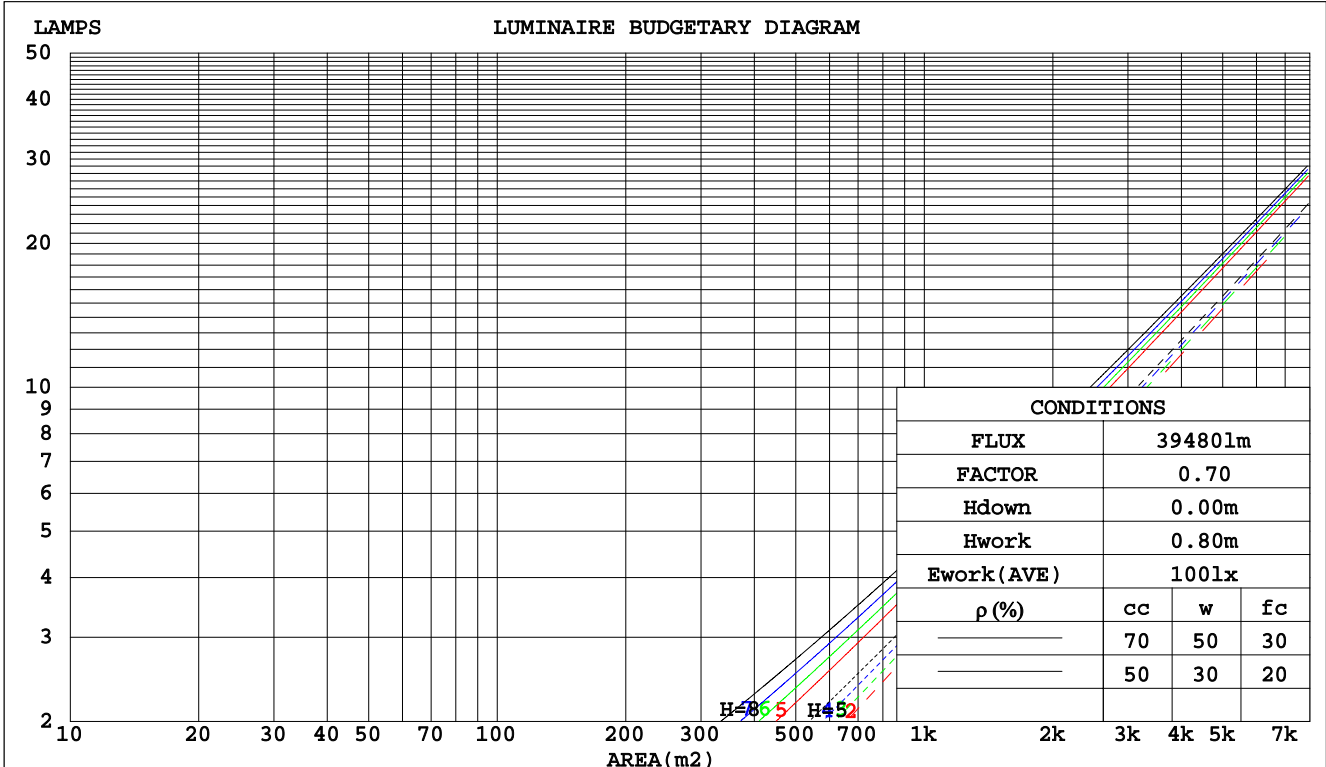
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 Operators: Derek Lai
 Test Date: 11 October 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.362
 Humidity: 40.6%
 Test Distance: 2.500m [K=1.0708]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.8480A P:100.9W PF:0.9913 Freq:60.01Hz Lamp Flux:15512.5x1 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
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															
	Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.06	1.02	.98	1.03	.00	.97	.99	.96	.94	.95	.93	.91	.92	.90	.88	.86
2.0	.93	.86	.81	.91	.85	.80	.87	.83	.78	.84	.80	.77	.81	.78	.75	.73
3.0	.82	.74	.68	.80	.73	.67	.77	.71	.66	.75	.69	.65	.72	.68	.64	.62
4.0	.72	.64	.58	.71	.63	.57	.69	.62	.56	.66	.60	.56	.64	.59	.55	.53
5.0	.65	.56	.50	.64	.55	.49	.61	.54	.49	.60	.53	.48	.58	.52	.48	.46
6.0	.58	.49	.43	.57	.49	.43	.55	.48	.43	.54	.47	.42	.52	.46	.42	.40
7.0	.53	.44	.38	.52	.44	.38	.50	.43	.38	.49	.42	.37	.47	.42	.37	.35
8.0	.48	.40	.34	.47	.39	.34	.46	.39	.33	.45	.38	.33	.44	.38	.33	.31
9.0	.44	.36	.30	.43	.36	.30	.42	.35	.30	.41	.35	.30	.40	.34	.30	.28
10.0	.40	.33	.27	.40	.32	.27	.39	.32	.27	.38	.32	.27	.37	.31	.27	.25



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 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: 40.6%
 Test Distance:2.500m [K=1.0708]
 Remarks:

WEC AND CCEC

Test:U:120.0V I:0.8480A P:100.9W PF:0.9913 Freq:60.01Hz Lamp Flux:15512.5x1 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	.276	.157	.050	.269	.153	.049	.256	.147	.047	.244	.141	.045	.233	.135	.043	
2.0	.269	.147	.045	.263	.145	.045	.251	.140	.043	.241	.135	.042	.231	.131	.041	
3.0	.254	.135	.041	.249	.133	.040	.239	.129	.039	.229	.126	.039	.221	.122	.038	
4.0	.238	.124	.036	.234	.122	.036	.224	.119	.036	.216	.116	.035	.208	.113	.034	
5.0	.223	.113	.033	.218	.112	.033	.210	.110	.032	.203	.107	.032	.196	.105	.031	
6.0	.208	.104	.030	.204	.103	.030	.197	.101	.029	.190	.099	.029	.184	.097	.029	
7.0	.195	.096	.027	.191	.095	.027	.185	.093	.027	.179	.092	.027	.173	.090	.026	
8.0	.183	.089	.025	.180	.088	.025	.174	.087	.025	.168	.085	.025	.163	.084	.024	
9.0	.172	.083	.023	.169	.082	.023	.164	.081	.023	.159	.080	.023	.154	.078	.023	
10.0	.162	.078	.022	.159	.077	.021	.155	.076	.021	.150	.075	.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	.179	.157	.138	.153	.135	.118	.105	.093	.082	.060	.054	.048	.019	.017	.015	
2.0	.170	.133	.101	.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	.148	.091	.049	.127	.079	.043	.087	.055	.030	.051	.032	.018	.016	.011	.006	
6.0	.141	.083	.041	.121	.071	.035	.084	.050	.025	.049	.029	.015	.016	.010	.005	
7.0	.135	.076	.034	.116	.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	.106	.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: 24.5DEG
 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: 40.6%
 Test Distance:2.500m [K=1.0708]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.0V I:0.8480A P:100.9W PF:0.9913 Freq:60.01Hz Lamp Flux:15512.5x1 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	20.4	21.9	20.7	22.1	22.3	20.4	21.9	20.7	22.1	22.3
3H	21.1	22.4	21.4	22.6	22.9	21.1	22.5	21.4	22.7	23.0
4H	21.1	22.4	21.4	22.7	22.9	21.2	22.5	21.5	22.8	23.0
6H	21.1	22.3	21.4	22.6	22.8	21.2	22.4	21.5	22.7	23.0
8H	21.0	22.2	21.4	22.5	22.8	21.2	22.3	21.5	22.6	22.9
12H	21.0	22.1	21.3	22.4	22.7	21.1	22.2	21.5	22.5	22.8
4H 2H	20.8	22.1	21.1	22.3	22.6	20.8	22.1	21.1	22.3	22.6
3H	21.5	22.6	21.9	22.9	23.2	21.6	22.7	21.9	23.0	23.3
4H	21.6	22.7	22.0	23.0	23.3	21.7	22.7	22.1	23.1	23.4
6H	21.7	22.5	22.0	22.9	23.3	21.8	22.7	22.2	23.0	23.4
8H	21.6	22.4	22.0	22.8	23.2	21.7	22.6	22.2	22.9	23.3
12H	21.6	22.3	22.0	22.7	23.1	21.7	22.5	22.1	22.9	23.3
8H 4H	21.6	22.5	22.0	22.8	23.2	21.7	22.6	22.1	22.9	23.3
6H	21.7	22.4	22.1	22.8	23.2	21.8	22.5	22.2	22.9	23.3
8H	21.7	22.3	22.1	22.7	23.1	21.8	22.4	22.2	22.8	23.3
12H	21.6	22.1	22.1	22.6	23.1	21.8	22.3	22.3	22.7	23.2
12H 4H	21.6	22.4	22.0	22.7	23.1	21.7	22.4	22.1	22.8	23.2
6H	21.6	22.2	22.1	22.7	23.1	21.8	22.4	22.2	22.8	23.2
8H	21.6	22.1	22.1	22.6	23.1	21.8	22.3	22.2	22.7	23.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				
1.5H	+ 0.5 / - 0.8					+ 0.4 / - 0.7				
2.0H	+ 0.6 / - 0.7					+ 0.5 / - 0.6				

CIE Pub.117, 15512 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 9.5)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 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: 40.6%
 Test Distance:2.500m [K=1.0708]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.0V I:0.8480A P:100.9W PF:0.9913 Freq:60.01Hz Lamp Flux:15512.5x1 lm		
NAME: LED UFO	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SHENZHEN HOLDIED OPTO LTD	SUR.:	Shielding Angle:

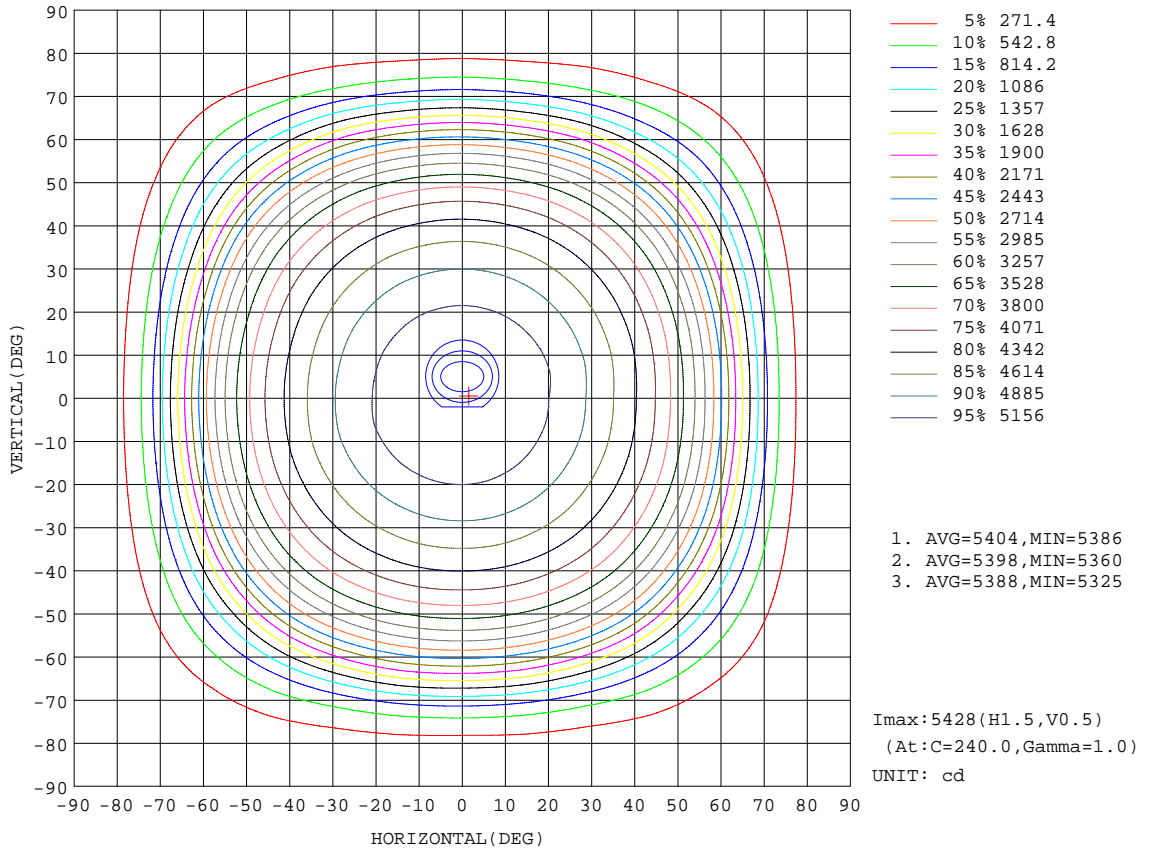
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	46	40	57	46	39	56	46	39	33
0.80	69	57	50	68	57	50	66	56	50	43
1.00	78	67	60	77	67	60	74	68	59	52
1.25	85	75	68	84	75	68	81	73	67	60
1.50	90	81	74	89	80	74	86	78	73	66
2.00	97	89	83	95	88	82	92	86	81	73
2.50	101	94	88	99	92	87	95	90	85	77
3.00	104	98	93	102	96	92	98	93	89	81
4.00	108	102	98	105	101	97	101	97	94	86
5.00	110	105	102	107	103	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: 24.5DEG
 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: 40.6%
 Test Distance:2.500m [K=1.0708]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.8480A P:100.9W PF:0.9913 Freq:60.01Hz Lamp Flux:15512.5x1 lm		
NAME: LED UFO	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SHENZHEN HOLDIED OPTO LTD	SUR.:	Shielding Angle:

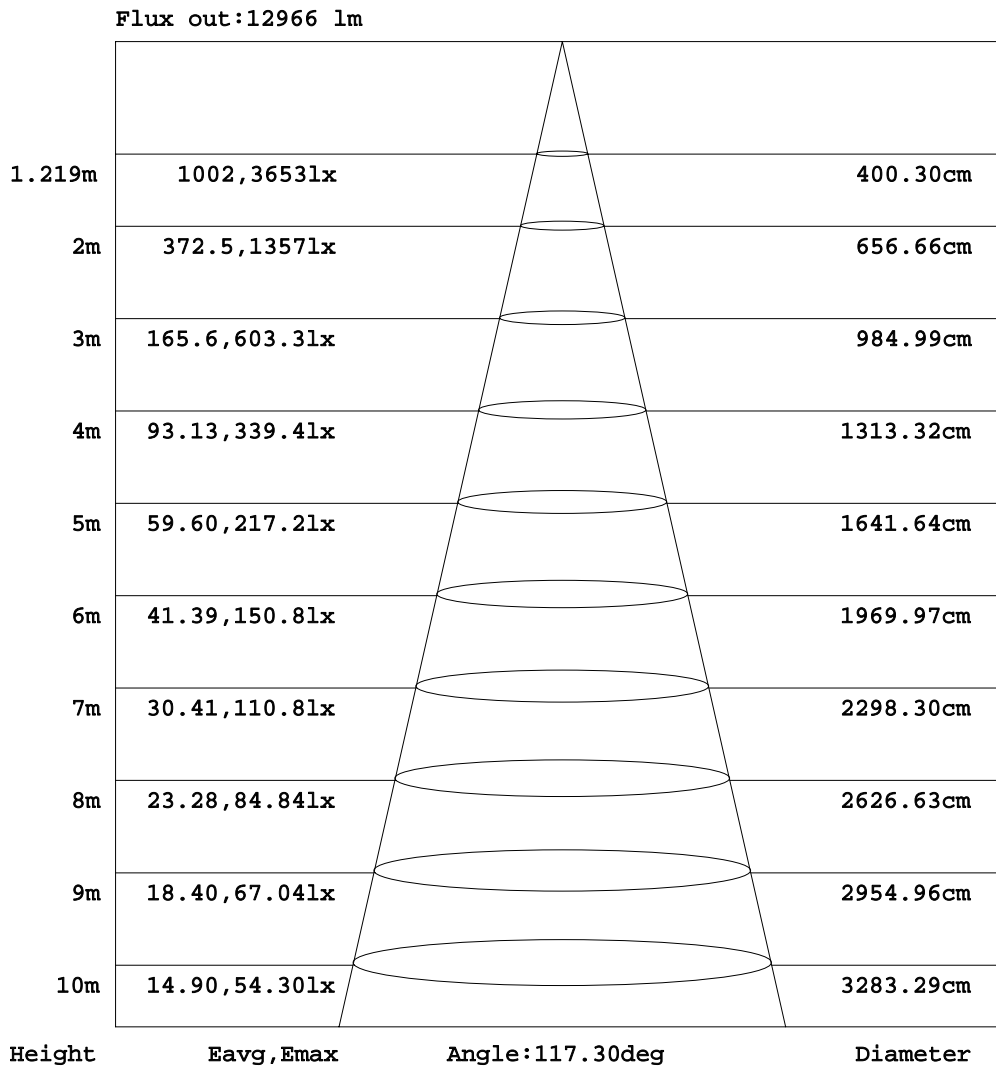


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 Operators: Derek Lai
 Test Date: 11 October 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.362
 Humidity: 40.6%
 Test Distance: 2.500m [K=1.0708]
 Remarks:

AAI Figure

Test:U:120.0V I:0.8480A P:100.9W PF:0.9913 Freq:60.01Hz Lamp Flux:15512.5x1 lm		
NAME: LED UFO	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SHENZHEN HOLDIED OPTO LTD	SUR.:	Shielding Angle:



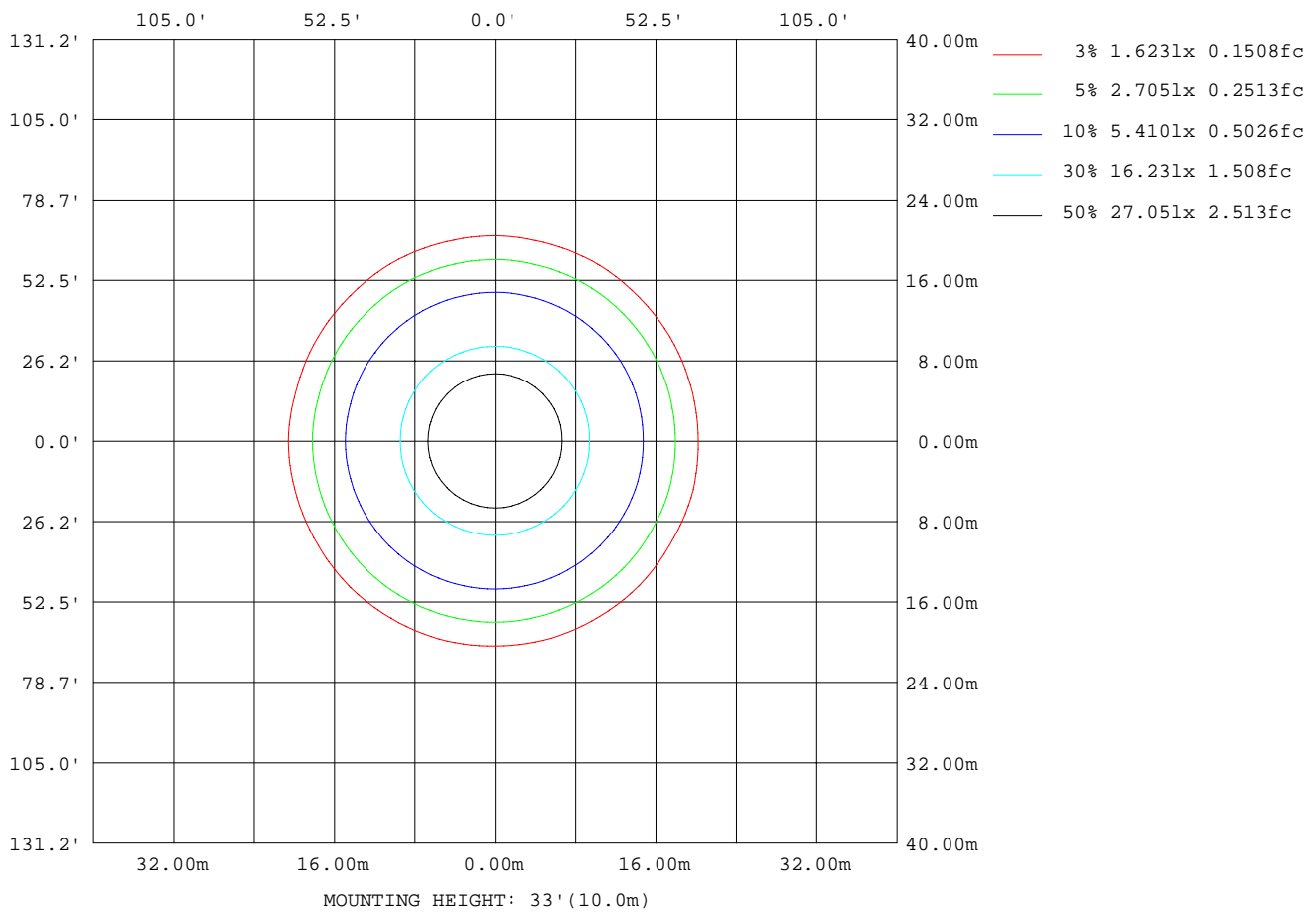
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 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: 40.6%
 Test Distance:2.500m [K=1.0708]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.0V I:0.8480A P:100.9W PF:0.9913 Freq:60.01Hz Lamp Flux:15512.5x1 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: 24.5DEG
 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: 40.6%
 Test Distance:2.500m [K=1.0708]
 Remarks:

LED Avg.L Report

Test:U:120.0V I:0.8480A P:100.9W PF:0.9913 Freq:60.01Hz Lamp Flux:15512.5x1 lm		
NAME: LED UFO	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SHENZHEN HOLDIED OPTO LTD	SUR.:	Shielding Angle:

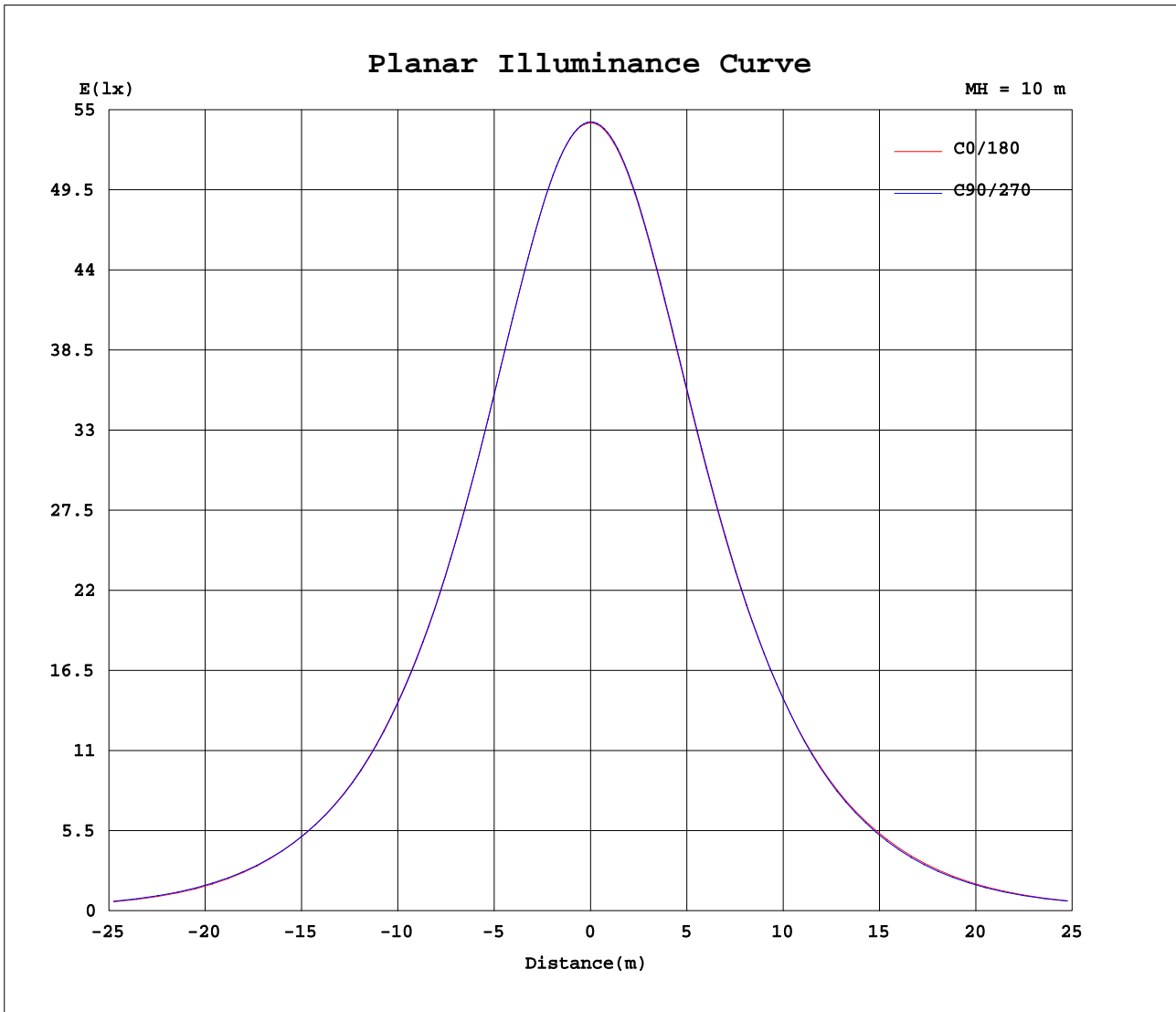
AvgL	cd/m2
L_0~180(65)av	97706
L_0~180(75)av	42446
L_0~180(85)av	4758
L_90~270(65)av	97789
L_90~270(75)av	45093
L_90~270(85)av	14590
L_45(65)av	96705
L_45(75)av	44110
L_45(85)av	10197

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 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: 40.6%
 Test Distance:2.500m [K=1.0708]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 24.5DEG
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: 40.6%
Test Distance: 2.500m [K=1.0708]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.8480A P:100.9W PF:0.9913 Freq:60.01Hz Lamp Flux:15512.5x1 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	5417	5417	5417	5417	5417	5417	5417	5417	5417	5417	5417	5417	5417	5417	5417	5417	5417	5417	5417
5	5405	5404	5402	5403	5401	5401	5401	5401	5402	5403	5404	5405	5406	5407	5408	5410	5410	5409	5409
10	5359	5359	5357	5357	5354	5355	5355	5357	5357	5359	5361	5364	5368	5368	5371	5372	5372	5373	5372
15	5279	5280	5275	5275	5272	5273	5272	5274	5276	5279	5283	5287	5293	5293	5298	5300	5300	5300	5301
20	5165	5167	5161	5161	5157	5159	5157	5159	5161	5168	5172	5178	5186	5185	5192	5194	5197	5196	5195
25	5019	5021	5014	5014	5009	5011	5008	5010	5013	5021	5028	5037	5045	5044	5053	5056	5059	5058	5057
30	4839	4840	4833	4833	4827	4827	4824	4827	4831	4840	4849	4861	4871	4870	4879	4884	4887	4886	4885
35	4623	4626	4617	4617	4609	4610	4604	4611	4616	4627	4638	4652	4662	4662	4674	4679	4683	4679	4677
40	4369	4373	4363	4361	4354	4351	4346	4355	4363	4377	4389	4407	4418	4416	4429	4435	4438	4430	4428
45	4060	4068	4057	4055	4044	4040	4033	4046	4058	4079	4094	4111	4126	4123	4138	4137	4137	4125	4119
50	3652	3667	3656	3654	3639	3634	3627	3646	3663	3690	3707	3723	3744	3736	3752	3746	3738	3719	3709
55	3145	3164	3148	3149	3134	3133	3131	3148	3168	3196	3214	3233	3261	3246	3258	3241	3228	3208	3201
60	2468	2493	2470	2491	2484	2491	2498	2513	2528	2557	2561	2581	2618	2582	2589	2571	2567	2547	2536
65	1632	1668	1623	1666	1673	1709	1702	1740	1731	1744	1719	1750	1795	1731	1741	1732	1760	1725	1728
70	909	935	919	928	947	968	983	991	986	977	978	996	1029	994	1000	994	1007	997	996
75	418	449	439	459	439	465	472	480	461	484	469	479	494	474	493	489	486	492	497
80	155	167	164	173	178	190	193	195	192	190	186	187	196	188	196	197	207	205	218
85	3.86	20.7	16.3	34.7	38.6	49.9	49.1	52.8	46.2	44.8	31.0	31.0	30.6	23.5	42.1	41.5	52.0	58.7	56.4
90	0.18	0.16	0.18	0.17	0.18	0.17	0.18	0.16	0.17	0.16	0.17	0.15	0.55	0.55	0.56	0.56	0.55	0.67	0.56
95	0.29	0.27	0.29	0.29	0.29	0.27	0.29	0.27	0.28	0.27	0.27	0.25	0.84	0.86	0.85	0.87	0.87	0.89	0.89
100	0.41	0.40	0.41	0.41	0.43	0.42	0.42	0.41	0.41	0.40	0.40	0.38	1.20	1.21	1.21	1.25	1.25	1.26	1.25
105	0.54	0.53	0.54	0.53	0.56	0.56	0.56	0.55	0.56	0.54	0.54	0.51	1.49	1.50	1.51	1.55	1.57	1.59	1.58
110	0.71	0.69	0.70	0.68	0.71	0.72	0.73	0.73	0.73	0.72	0.72	0.68	1.59	1.61	1.63	1.68	1.70	1.73	1.73
115	0.97	0.93	0.92	0.89	0.95	0.94	0.95	0.95	0.97	0.95	0.95	0.91	1.70	1.72	1.71	1.77	1.79	1.82	1.82
120	1.30	1.25	1.23	1.18	1.26	1.19	1.23	1.24	1.26	1.23	1.26	1.21	1.97	1.97	1.94	1.96	1.97	1.98	1.99
125	1.68	1.63	1.56	1.59	1.63	1.57	1.57	1.55	1.58	1.60	1.61	1.56	2.31	2.33	2.27	2.34	2.33	2.36	2.38
130	2.05	2.01	2.06	1.93	2.05	2.02	1.96	1.93	2.00	1.94	2.01	1.97	2.77	2.83	2.85	2.85	2.88	2.87	2.89
135	2.48	2.48	2.43	2.29	2.35	2.43	2.40	2.36	2.35	2.31	2.34	2.39	3.23	3.36	3.37	3.46	3.40	3.37	3.38
140	2.79	2.83	2.72	2.74	2.71	2.76	2.71	2.67	2.66	2.67	2.57	2.58	3.62	3.72	3.77	3.93	3.91	3.83	3.78
145	2.93	3.06	3.01	2.92	3.00	2.93	2.91	2.90	2.95	2.85	2.79	2.82	4.06	4.15	4.19	4.32	4.35	4.27	4.31
150	3.08	3.25	3.12	3.01	2.98	3.08	3.04	3.04	3.01	3.04	3.07	3.08	4.48	4.55	4.62	4.72	4.66	4.65	4.65
155	3.21	3.36	3.46	3.23	3.11	3.13	3.02	3.15	3.20	3.30	3.46	3.28	4.82	4.97	5.18	5.13	4.96	4.92	4.87
160	3.57	3.65	3.55	3.55	3.32	3.27	3.12	3.30	3.41	3.60	3.65	3.54	5.26	5.37	5.45	5.49	5.28	5.15	4.99
165	3.62	3.75	3.84	3.89	3.65	3.64	3.52	3.58	3.71	3.65	3.60	3.65	5.20	5.36	5.37	5.44	5.41	5.18	5.14
170	3.88	4.01	4.11	4.11	3.81	3.85	3.79	3.63	3.91	3.87	3.79	3.73	5.04	5.14	5.28	5.32	5.27	4.94	5.00
175	4.32	4.42	4.43	4.43	4.24	4.27	4.06	4.00	4.14	4.15	4.18	4.23	4.92	5.01	5.02	4.97	4.99	4.75	4.67
180	4.57	4.65	4.64	4.63	4.49	4.42	4.40	4.16	4.22	4.32	4.37	4.47	4.57	4.65	4.64	4.63	4.50	4.43	4.40

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 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: 40.6%
 Test Distance:2.500m [K=1.0708]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.8480A P:100.9W PF:0.9913 Freq:60.01Hz Lamp Flux:15512.5x1 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	5417	5417	5417	5417	5417														
5	5409	5409	5408	5407	5405														
10	5371	5369	5366	5367	5363														
15	5297	5296	5291	5290	5286														
20	5191	5188	5182	5180	5176														
25	5052	5049	5043	5038	5032														
30	4879	4875	4867	4862	4854														
35	4671	4667	4658	4652	4642														
40	4421	4418	4410	4403	4391														
45	4114	4114	4105	4101	4084														
50	3703	3710	3707	3701	3679														
55	3187	3193	3187	3186	3163														
60	2513	2513	2499	2496	2475														
65	1693	1689	1642	1644	1634														
70	974	951	920	927	911														
75	474	465	464	447	434														
80	200	194	176	168	157														
85	54.6	46.2	26.5	24.1	17.3														
90	0.57	0.56	0.57	0.56	0.57														
95	0.90	0.89	0.91	0.90	0.91														
100	1.27	1.27	1.27	1.27	1.27														
105	1.60	1.59	1.60	1.57	1.56														
110	1.74	1.72	1.73	1.67	1.65														
115	1.82	1.81	1.79	1.76	1.76														
120	1.99	1.97	1.95	1.95	2.00														
125	2.35	2.26	2.30	2.24	2.32														
130	2.85	2.79	2.75	2.80	2.81														
135	3.31	3.23	3.27	3.27	3.31														
140	3.68	3.74	3.75	3.68	3.74														
145	4.18	4.17	4.13	4.11	4.24														
150	4.64	4.49	4.57	4.53	4.63														
155	4.87	4.90	4.91	5.10	4.87														
160	5.06	5.13	5.25	5.26	5.26														
165	5.16	5.16	5.26	5.27	5.22														
170	5.14	4.87	5.07	5.16	5.05														
175	4.80	4.58	4.70	4.80	4.86														
180	4.16	4.23	4.32	4.36	4.47														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 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: 40.6%
 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	5417	5417	5417	5417	5417	5417	5417	5417	5417	5417
3.0	5413	5413	5412	5412	5411	5411	5410	5411	5411	5411
6.0	5398	5398	5396	5396	5394	5395	5394	5395	5395	5397
9.0	5371	5371	5369	5369	5366	5367	5367	5368	5368	5370
12.0	5332	5332	5328	5329	5326	5326	5326	5327	5329	5331
15.0	5279	5280	5275	5275	5272	5273	5272	5274	5276	5279
18.0	5215	5217	5210	5210	5207	5209	5207	5208	5210	5216
21.0	5139	5140	5135	5134	5130	5131	5130	5131	5135	5140
24.0	5051	5054	5046	5046	5042	5043	5041	5043	5045	5054
27.0	4951	4953	4946	4945	4940	4941	4938	4941	4944	4952
30.0	4839	4840	4833	4833	4827	4827	4824	4827	4831	4840
33.0	4714	4717	4708	4707	4701	4702	4697	4701	4706	4716
36.0	4576	4579	4569	4568	4561	4562	4557	4563	4567	4580
39.0	4423	4426	4416	4416	4408	4407	4402	4409	4417	4430
42.0	4254	4260	4248	4247	4239	4235	4229	4239	4250	4267
45.0	4060	4068	4057	4055	4044	4040	4033	4046	4058	4079
48.0	3827	3841	3828	3828	3814	3809	3803	3819	3836	3860
51.0	3559	3576	3564	3563	3547	3542	3535	3553	3573	3602
54.0	3257	3275	3259	3260	3245	3241	3240	3256	3277	3303
57.0	2901	2920	2902	2907	2895	2897	2901	2914	2933	2961
60.0	2468	2493	2470	2491	2484	2491	2498	2513	2528	2557
63.0	1971	2010	1964	2012	2002	2032	2033	2059	2061	2079
66.0	1470	1503	1461	1498	1509	1549	1544	1579	1568	1577
69.0	1033	1062	1036	1053	1068	1100	1103	1127	1111	1112
72.0	678.7	705.2	700.2	706.0	704.3	734.5	742.6	753.7	737.8	742.3
75.0	417.5	448.7	438.7	459.2	439.1	464.9	472.1	480.1	461.4	483.6
78.0	242.0	262.9	254.9	277.6	266.7	286.2	279.7	291.4	283.5	297.0
81.0	113.7	124.8	124.9	136.1	144.1	153.4	158.0	158.6	155.4	148.7
84.0	23.59	39.40	38.68	50.98	63.23	71.86	74.51	74.78	71.44	64.21
87.0	0.7463	0.7393	5.705	2.469	13.22	17.46	11.66	18.48	9.636	5.987
90.0	0.1766	0.1634	0.1771	0.1653	0.1806	0.1653	0.1792	0.1627	0.1718	0.1554
93.0	0.2402	0.2232	0.2396	0.2291	0.2437	0.2281	0.2409	0.2229	0.2315	0.2145
96.0	0.3093	0.2954	0.3090	0.3150	0.3340	0.3021	0.3099	0.2936	0.3159	0.3008
99.0	0.3838	0.3738	0.3851	0.3840	0.4024	0.3946	0.3889	0.3808	0.3918	0.3758
102.0	0.4644	0.4551	0.4617	0.4599	0.4777	0.4755	0.4749	0.4659	0.4694	0.4564
105.0	0.5416	0.5334	0.5376	0.5342	0.5605	0.5561	0.5569	0.5509	0.5570	0.5400
108.0	0.6343	0.6221	0.6260	0.6139	0.6484	0.6493	0.6578	0.6530	0.6577	0.6385
111.0	0.7560	0.7193	0.7369	0.7140	0.7429	0.7580	0.7666	0.7651	0.7740	0.7546
114.0	0.9112	0.8617	0.8692	0.8415	0.8907	0.8913	0.8976	0.9007	0.9163	0.8958
117.0	1.100	1.050	1.035	0.9951	1.070	1.043	1.053	1.057	1.083	1.060
120.0	1.303	1.251	1.226	1.176	1.264	1.189	1.235	1.238	1.261	1.233
123.0	1.526	1.484	1.426	1.425	1.484	1.402	1.433	1.425	1.452	1.441
126.0	1.749	1.704	1.653	1.656	1.704	1.664	1.635	1.620	1.647	1.678
129.0	1.976	1.938	1.967	1.854	1.971	1.923	1.866	1.839	1.904	1.873
132.0	2.211	2.210	2.201	2.080	2.158	2.215	2.147	2.118	2.147	2.089
135.0	2.479	2.480	2.433	2.291	2.348	2.433	2.401	2.364	2.352	2.311
138.0	2.691	2.726	2.596	2.608	2.583	2.629	2.602	2.545	2.542	2.524
141.0	2.784	2.799	2.776	2.775	2.773	2.803	2.758	2.727	2.721	2.727
144.0	2.874	3.025	2.951	2.881	2.969	2.900	2.857	2.862	2.910	2.825
147.0	2.974	3.151	3.083	2.929	2.999	3.006	2.968	2.977	2.993	2.923
150.0	3.076	3.248	3.119	3.006	2.976	3.078	3.036	3.045	3.008	3.044
153.0	3.133	3.270	3.299	3.118	2.999	3.100	3.027	3.098	3.100	3.198
156.0	3.271	3.424	3.497	3.273	3.123	3.146	3.011	3.171	3.234	3.357
159.0	3.538	3.646	3.538	3.487	3.290	3.214	3.102	3.279	3.376	3.545
162.0	3.524	3.605	3.627	3.679	3.420	3.370	3.237	3.372	3.547	3.595
165.0	3.617	3.748	3.838	3.890	3.655	3.640	3.519	3.578	3.711	3.646
168.0	3.836	3.964	4.067	4.067	3.818	3.825	3.721	3.717	3.904	3.838
171.0	3.851	3.978	4.086	4.107	3.812	3.857	3.785	3.566	3.895	3.877
174.0	4.160	4.242	4.255	4.282	4.087	4.134	3.958	3.867	4.018	4.031
177.0	4.453	4.590	4.562	4.578	4.351	4.354	4.177	4.064	4.261	4.272
180.0	4.573	4.653	4.645	4.626	4.488	4.423	4.398	4.156	4.223	4.317
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	5417	5417	5417	5417	5417	5417	5417	5417	5417	5417
3.0	5412	5413	5414	5414	5414	5415	5415	5415	5415	5415
6.0	5398	5399	5402	5401	5403	5404	5405	5405	5404	5404
9.0	5372	5374	5378	5378	5381	5382	5383	5383	5382	5381
12.0	5334	5337	5342	5342	5346	5348	5348	5348	5347	5345
15.0	5283	5287	5293	5293	5298	5300	5300	5300	5301	5297
18.0	5220	5226	5232	5232	5238	5240	5243	5241	5242	5237
21.0	5145	5151	5160	5160	5166	5168	5172	5171	5170	5166
24.0	5059	5067	5076	5076	5084	5086	5089	5089	5088	5083
27.0	4961	4970	4980	4978	4988	4991	4995	4993	4994	4987
30.0	4849	4861	4871	4870	4879	4884	4887	4886	4885	4879

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 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: 40.6%
 Test Distance:2.500m [K=1.0708]
 Remarks:

Photometric Data Table [cd]

33.0	4727	4738	4750	4749	4760	4765	4770	4767	4765	4758
36.0	4591	4607	4616	4616	4628	4633	4638	4634	4632	4625
39.0	4443	4459	4470	4468	4481	4486	4491	4484	4482	4475
42.0	4280	4297	4309	4306	4321	4323	4325	4318	4314	4307
45.0	4094	4111	4126	4123	4138	4137	4137	4125	4119	4114
48.0	3875	3893	3911	3905	3920	3915	3911	3894	3886	3880
51.0	3618	3634	3656	3646	3664	3656	3648	3625	3616	3608
54.0	3320	3340	3366	3354	3367	3352	3341	3321	3312	3301
57.0	2978	2995	3032	3008	3018	2999	2984	2965	2959	2941
60.0	2561	2581	2618	2582	2589	2571	2567	2547	2536	2513
63.0	2068	2090	2134	2079	2087	2073	2088	2062	2054	2027
66.0	1552	1582	1626	1562	1574	1564	1594	1563	1564	1531
69.0	1097	1127	1162	1115	1130	1116	1140	1117	1124	1091
72.0	739.9	762.7	782.2	750.5	769.7	751.7	765.7	757.4	769.5	739.9
75.0	468.6	479.2	494.3	474.4	493.3	488.5	486.3	492.0	496.5	474.4
78.0	278.5	289.5	298.6	283.3	302.2	291.6	306.1	300.6	306.7	295.6
81.0	146.4	147.2	153.1	145.0	154.6	157.5	170.2	167.7	173.2	165.6
84.0	57.87	55.35	54.87	51.42	61.51	69.04	76.09	83.17	81.22	78.43
87.0	7.918	2.051	2.468	8.690	3.453	8.023	19.42	15.28	19.79	11.22
90.0	0.1652	0.1483	0.5542	0.5524	0.5615	0.5600	0.5476	0.6711	0.5629	0.5746
93.0	0.2227	0.2046	0.7054	0.7236	0.7146	0.7329	0.7309	0.7512	0.7497	0.7627
96.0	0.2917	0.2732	0.9151	0.9313	0.9235	0.9678	0.9414	0.9589	0.9600	0.9716
99.0	0.3760	0.3489	1.127	1.142	1.145	1.188	1.190	1.193	1.180	1.202
102.0	0.4605	0.4315	1.327	1.348	1.339	1.381	1.380	1.402	1.387	1.413
105.0	0.5419	0.5144	1.491	1.503	1.511	1.552	1.565	1.585	1.581	1.599
108.0	0.6440	0.6087	1.547	1.575	1.592	1.642	1.660	1.688	1.687	1.698
111.0	0.7625	0.7217	1.604	1.626	1.644	1.697	1.720	1.746	1.748	1.754
114.0	0.8969	0.8580	1.673	1.693	1.696	1.747	1.775	1.795	1.801	1.804
117.0	1.067	1.020	1.793	1.811	1.796	1.829	1.845	1.865	1.868	1.873
120.0	1.264	1.214	1.967	1.972	1.936	1.961	1.974	1.976	1.990	1.987
123.0	1.470	1.413	2.132	2.163	2.103	2.152	2.171	2.180	2.165	2.188
126.0	1.675	1.639	2.384	2.410	2.372	2.426	2.416	2.456	2.492	2.442
129.0	1.923	1.890	2.663	2.724	2.719	2.725	2.758	2.753	2.781	2.744
132.0	2.168	2.129	2.962	3.032	3.091	3.099	3.080	3.115	3.108	3.075
135.0	2.342	2.388	3.229	3.357	3.366	3.457	3.403	3.371	3.376	3.309
138.0	2.499	2.535	3.480	3.594	3.618	3.756	3.716	3.643	3.586	3.518
141.0	2.612	2.607	3.709	3.801	3.854	4.005	4.004	3.916	3.872	3.759
144.0	2.757	2.793	3.954	4.081	4.099	4.239	4.272	4.173	4.220	4.058
147.0	2.896	2.948	4.191	4.357	4.348	4.476	4.469	4.441	4.481	4.430
150.0	3.075	3.078	4.477	4.555	4.615	4.723	4.662	4.649	4.647	4.638
153.0	3.310	3.201	4.651	4.789	4.975	4.963	4.836	4.826	4.825	4.799
156.0	3.522	3.352	4.897	5.074	5.259	5.203	5.028	4.957	4.864	4.891
159.0	3.633	3.525	5.201	5.344	5.420	5.424	5.232	5.115	4.961	5.031
162.0	3.660	3.551	5.241	5.354	5.435	5.458	5.334	5.167	5.015	5.058
165.0	3.599	3.647	5.205	5.361	5.375	5.438	5.407	5.178	5.143	5.163
168.0	3.703	3.724	5.065	5.224	5.291	5.383	5.339	5.061	5.067	5.158
171.0	3.811	3.777	5.069	5.192	5.274	5.308	5.248	4.899	4.939	5.124
174.0	4.028	4.064	4.976	5.066	5.083	5.057	5.024	4.818	4.687	4.918
177.0	4.344	4.401	4.779	4.863	4.868	4.851	4.820	4.618	4.592	4.556
180.0	4.370	4.473	4.569	4.652	4.643	4.629	4.496	4.428	4.401	4.162
G/C	300.0	315.0	330.0	345.0						
0.0	5417	5417	5417	5417						
3.0	5414	5414	5414	5413						
6.0	5404	5401	5401	5400						
9.0	5380	5379	5377	5375						
12.0	5344	5340	5340	5336						
15.0	5296	5291	5290	5286						
18.0	5235	5230	5228	5224						
21.0	5163	5157	5155	5148						
24.0	5080	5074	5069	5063						
27.0	4984	4977	4972	4965						
30.0	4875	4867	4862	4854						
33.0	4755	4746	4739	4731						
36.0	4620	4611	4606	4595						
39.0	4471	4463	4457	4444						
42.0	4306	4297	4290	4277						
45.0	4114	4105	4101	4084						
48.0	3884	3879	3872	3855						
51.0	3617	3613	3609	3585						
54.0	3307	3302	3299	3277						
57.0	2947	2936	2935	2914						
60.0	2513	2499	2496	2475						
63.0	2027	1989	1994	1973						
66.0	1522	1477	1479	1471						

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 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: 40.6%
 Test Distance:2.500m [K=1.0708]
 Remarks:

Photometric Data Table [cd]

69.0	1081	1039	1048	1031
72.0	723.6	700.0	709.5	686.8
75.0	465.4	463.7	447.5	433.5
78.0	295.6	269.4	269.8	251.3
81.0	155.6	139.5	129.5	117.7
84.0	65.80	52.88	45.66	25.47
87.0	7.350	5.292	1.028	1.132
90.0	0.5634	0.5703	0.5625	0.5712
93.0	0.7531	0.7630	0.7550	0.7664
96.0	0.9769	0.9870	0.9733	0.9794
99.0	1.197	1.205	1.200	1.198
102.0	1.400	1.412	1.410	1.399
105.0	1.593	1.596	1.569	1.561
108.0	1.684	1.688	1.640	1.622
111.0	1.739	1.741	1.688	1.670
114.0	1.788	1.775	1.738	1.737
117.0	1.855	1.836	1.828	1.860
120.0	1.970	1.946	1.952	1.998
123.0	2.123	2.113	2.083	2.172
126.0	2.351	2.381	2.342	2.405
129.0	2.688	2.654	2.692	2.705
132.0	2.943	2.951	2.995	3.030
135.0	3.229	3.268	3.267	3.312
138.0	3.511	3.593	3.497	3.591
141.0	3.846	3.827	3.776	3.779
144.0	4.120	4.063	4.020	4.151
147.0	4.296	4.323	4.304	4.393
150.0	4.492	4.566	4.532	4.631
153.0	4.739	4.754	4.887	4.745
156.0	4.967	4.988	5.155	5.014
159.0	5.079	5.185	5.259	5.237
162.0	5.175	5.285	5.249	5.203
165.0	5.161	5.264	5.272	5.218
168.0	4.997	5.146	5.227	5.142
171.0	4.842	5.040	5.125	5.016
174.0	4.629	4.798	4.861	4.908
177.0	4.438	4.567	4.591	4.681
180.0	4.227	4.321	4.364	4.472

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 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: 40.6%
 Test Distance:2.500m [K=1.0708]
 Remarks: