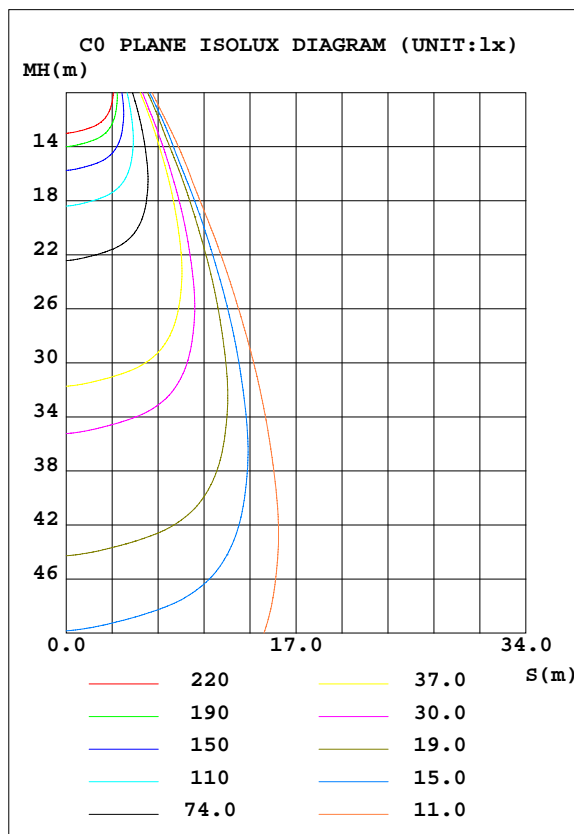
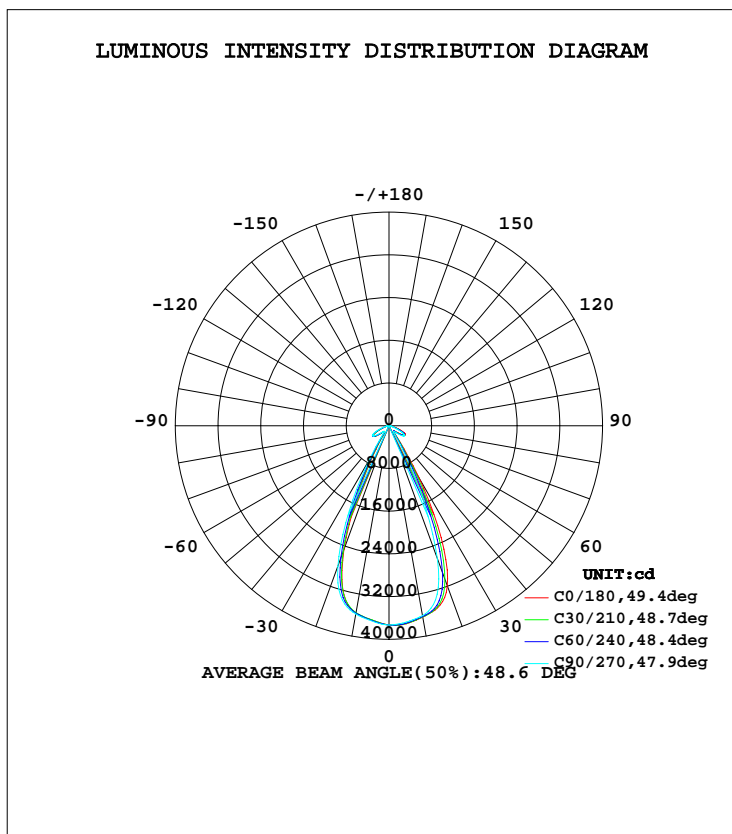


## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:110.0V I:2.629A P:286.5W PF:0.9905 Lamp Flux:29824x1 lm		
NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:110V~60Hz	SERIAL No.:
MFR.: Dongguan city Lemark Lighting Technologies	LSDR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	1200-50-50T	Imax(cd)	37431	S/MH(C0/180)	0.67
NOMINAL POWER(W)	280	LOR(%)	100.0	S/MH(C90/270)	0.72
RATED VOLTAGE(V)	110	TOTAL FLUX(lm)	29824	η UP, DN(C0-180)	0.2, 50.6
NOMINAL FLUX(lm)	29824	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1, 49.0
LAMPS INSIDE	1	η up(%)	0.4	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	110.0	η down(%)	99.6	CIBSE SHR MAX	0.70



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.0DEG  
Operators:Carl  
Test Date:2013-01-24

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.273  
Humidity:63.3%  
Test Distance:30.000m [K=1.0000]  
Remarks:

# ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum,lamp
10	3564	3564	3580	3615	3639	3626	3610	3574	0- 10	3490	3490	11.7,11.7
20	2473	2617	2803	2970	3193	3041	2648	2349	10- 20	9221	12710	42.6,42.6
30	404.5	521.6	754.2	946.8	1117	834.3	506.9	381.8	20- 30	7475	20185	67.7,67.7
40	140.3	144.1	139.2	139.9	141.4	141.1	138.7	139.8	30- 40	1610	21795	73.1,73.1
50	275.4	263.8	239.6	220.9	194.5	215.9	255.8	283.3	40- 50	1385	23180	77.7,77.7
60	338.1	343.5	359.8	356.0	348.6	341.4	326.7	325.9	50- 60	2856	26036	87.3,87.3
70	127.6	139.7	172.3	206.0	204.5	156.5	126.4	133.6	60- 70	2539	28575	95.8,95.8
80	31.09	37.29	47.17	54.91	49.50	41.15	35.70	30.89	70- 80	926.3	29501	98.9,98.9
90	0.8071	1.859	4.928	7.640	6.931	3.639	1.147	0.7873	80- 90	214.6	29716	99.6,99.6
100	0.7408	0.6497	0.5986	0.6307	0.4347	0.5046	0.5808	0.5798	90-100	10.04	29726	99.7,99.7
110	1.084	0.9987	0.9229	0.9516	0.6122	0.6834	0.7661	0.7629	100-110	7.519	29734	99.7,99.7
120	1.100	1.124	1.109	1.159	0.7727	0.8310	0.8905	0.8815	110-120	9.398	29743	99.7,99.7
130	1.124	1.042	0.9973	1.000	0.8130	0.8442	0.9027	0.8842	120-130	8.645	29752	99.8,99.8
140	2.561	2.222	1.761	1.554	1.040	1.138	1.264	1.367	130-140	9.095	29761	99.8,99.8
150	5.284	4.833	4.114	3.748	2.112	2.336	2.611	2.835	140-150	14.76	29776	99.8,99.8
160	7.384	7.087	6.616	6.340	4.138	4.314	4.607	4.780	150-160	21.11	29797	99.9,99.9
170	9.502	9.247	8.832	8.590	7.123	7.400	7.824	8.090	160-170	18.55	29815	100,100
180	10.03	9.998	9.963	9.985	10.05	9.986	9.965	9.973	170-180	8.804	29824	100,100
DEG	LUMINOUS INTENSITY: $\times 10$ cd MAX (Ii - Iavg)/Iavg (0-135) = 412.2 %									UNIT:lm		

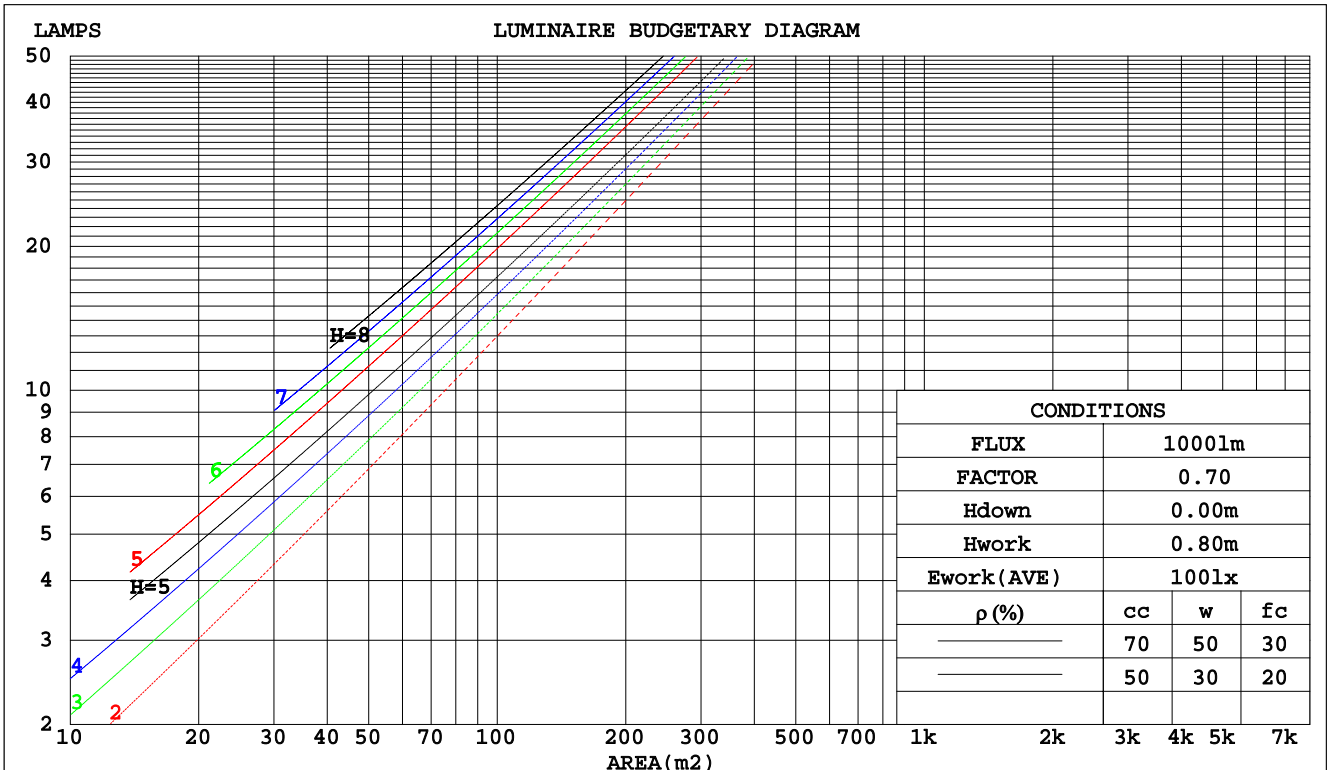
C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Carl  
 Test Date: 2013-01-24

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.273  
 Humidity: 63.3%  
 Test Distance: 30.000m [K=1.0000]  
 Remarks:

# CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:110.0V I:2.629A P:286.5W PF:0.9905 Lamp Flux:29824x1 lm		
NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:110V~60Hz	SERIAL No.:
MFR.: Dongguan city Lemark Lighting Technologies	LSDR.:	PROTECTION 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																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	1.08	1.05	1.02	1.06	1.03	1.00	1.02	.99	.97	.98	.96	.94	.94	.93	.91	.90
2.0	.98	.93	.89	.97	.92	.88	.93	.89	.86	.90	.87	.84	.87	.85	.82	.80
3.0	.90	.84	.79	.89	.83	.79	.86	.81	.77	.84	.80	.76	.81	.78	.75	.73
4.0	.84	.77	.72	.82	.76	.72	.80	.75	.71	.78	.73	.70	.76	.72	.69	.67
5.0	.78	.71	.66	.77	.71	.66	.75	.69	.65	.73	.68	.65	.71	.67	.64	.62
6.0	.73	.66	.61	.72	.66	.61	.70	.65	.61	.69	.64	.60	.68	.63	.60	.58
7.0	.69	.62	.57	.68	.62	.57	.67	.61	.57	.65	.60	.56	.64	.60	.56	.55
8.0	.65	.58	.54	.64	.58	.54	.63	.58	.54	.62	.57	.53	.61	.56	.53	.52
9.0	.62	.55	.51	.61	.55	.51	.60	.55	.51	.59	.54	.51	.58	.54	.50	.49
10.0	.59	.52	.48	.58	.52	.48	.57	.52	.48	.56	.52	.48	.56	.51	.48	.46



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Carl  
 Test Date: 2013-01-24

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.273  
 Humidity: 63.3%  
 Test Distance: 30.000m [K=1.0000]  
 Remarks:

# WEC AND CCEC

Test:U:110.0V I:2.629A P:286.5W PF:0.9905 Lamp Flux:29824x1 lm		
NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:110V~60Hz	SERIAL No.:
MFR.: Dongguan city Lemark Lighting Technologies	LSDR.:	PROTECTION ANGLE:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
<b>RCR</b>	<b>RCR:Room Cavity Ratio</b>						<b>Wall Exitance Coefficients(WEC)</b>									
0.0																
1.0	.227	.129	.041	.220	.125	.040	.207	.119	.038	.195	.112	.036	.184	.106	.034	
2.0	.214	.117	.036	.208	.114	.035	.197	.109	.034	.186	.105	.033	.177	.100	.032	
3.0	.199	.106	.032	.194	.104	.031	.184	.100	.030	.175	.096	.029	.167	.092	.029	
4.0	.185	.096	.028	.180	.094	.028	.172	.091	.027	.164	.088	.027	.157	.085	.026	
5.0	.172	.087	.025	.168	.086	.025	.160	.084	.025	.154	.081	.024	.147	.079	.024	
6.0	.160	.080	.023	.157	.079	.023	.150	.077	.022	.144	.075	.022	.139	.073	.022	
7.0	.150	.074	.021	.147	.073	.021	.141	.072	.021	.136	.070	.020	.131	.068	.020	
8.0	.141	.069	.019	.139	.068	.019	.133	.067	.019	.129	.065	.019	.124	.064	.019	
9.0	.133	.065	.018	.131	.064	.018	.126	.063	.018	.122	.061	.018	.118	.060	.017	
10.0	.126	.061	.017	.124	.060	.017	.120	.059	.017	.116	.058	.016	.113	.057	.016	

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
<b>RCR</b>	<b>RCR:Room Cavity Ratio</b>						<b>Ceiling Cavity Exitance Coefficients(CCEC)</b>									
0.0																
1.0	.193	.193	.193	.165	.165	.165	.113	.113	.113	.065	.065	.065	.021	.021	.021	
2.0	.177	.160	.144	.152	.137	.124	.104	.094	.086	.060	.055	.050	.019	.018	.016	
3.0	.165	.135	.110	.141	.116	.095	.097	.080	.066	.056	.047	.039	.018	.015	.013	
4.0	.154	.117	.087	.132	.101	.076	.090	.070	.053	.052	.041	.031	.017	.013	.010	
5.0	.144	.102	.071	.123	.088	.061	.085	.062	.043	.049	.036	.026	.016	.012	.008	
6.0	.135	.091	.059	.116	.079	.051	.080	.055	.036	.046	.032	.021	.015	.011	.007	
7.0	.127	.082	.050	.109	.071	.043	.075	.050	.031	.044	.029	.018	.014	.010	.006	
8.0	.120	.075	.043	.103	.065	.037	.071	.045	.026	.041	.027	.016	.013	.009	.005	
9.0	.113	.068	.037	.098	.059	.032	.068	.042	.023	.039	.025	.014	.013	.008	.005	
10.0	.108	.063	.033	.093	.055	.029	.064	.038	.020	.037	.023	.012	.012	.007	.004	
10.0	.102	.059	.029	.088	.051	.026	.061	.036	.018	.036	.021	.011	.012	.007	.004	

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.0DEG  
 Operators:Carl  
 Test Date:2013-01-24

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.273  
 Humidity:63.3%  
 Test Distance:30.000m [K=1.0000]  
 Remarks:

# Uncorrected UGR Table

Test:U:110.0V I:2.629A P:286.5W PF:0.9905 Lamp Flux:29824x1 lm										
NAME:					TYPE:			WEIGHT:		
DIM.:					SPEC.:110V~60Hz			SERIAL No.:		
MFR.: Dongguan city Lemark Lighting Technologies					LSDR.:			PROTECTION 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	29.6	30.7	29.8	30.8	31.0	29.8	30.9	30.1	31.1	31.3
3H	30.8	31.9	31.1	32.1	32.3	31.6	32.6	31.8	32.8	33.0
4H	31.0	32.0	31.3	32.3	32.5	31.9	32.9	32.2	33.1	33.4
6H	31.1	32.0	31.4	32.3	32.5	32.0	32.9	32.3	33.2	33.5
8H	31.1	32.0	31.4	32.2	32.5	32.1	32.9	32.4	33.2	33.5
12H	31.1	31.9	31.4	32.2	32.5	32.1	32.9	32.4	33.2	33.5
4H 2H	30.3	31.3	30.6	31.6	31.8	30.6	31.5	30.9	31.8	32.0
3H	31.6	32.5	31.9	32.7	33.0	32.3	33.1	32.6	33.4	33.7
4H	31.8	32.6	32.2	32.9	33.3	32.6	33.4	33.0	33.7	34.1
6H	31.9	32.6	32.3	33.0	33.3	32.8	33.5	33.2	33.9	34.2
8H	31.9	32.6	32.4	33.0	33.3	32.9	33.5	33.3	33.9	34.3
12H	31.9	32.5	32.4	32.9	33.3	32.9	33.5	33.3	33.9	34.3
8H 4H	31.9	32.6	32.3	32.9	33.3	32.7	33.3	33.1	33.7	34.0
6H	32.1	32.6	32.5	33.0	33.4	32.9	33.4	33.3	33.8	34.3
8H	32.1	32.6	32.6	33.0	33.5	33.0	33.5	33.4	33.9	34.3
12H	32.1	32.5	32.6	33.0	33.5	33.1	33.5	33.5	33.9	34.4
12H 4H	31.9	32.5	32.3	32.9	33.3	32.6	33.2	33.0	33.6	34.0
6H	32.0	32.5	32.5	32.9	33.4	32.9	33.3	33.3	33.8	34.2
8H	32.1	32.5	32.6	33.0	33.4	33.0	33.4	33.5	33.8	34.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 1.0 / - 0.8					+ 0.7 / - 0.8				
2.0H	+ 0.9 / - 2.7					+ 0.9 / - 2.3				

CIE Pub.117 Corrected 29824 lm Total Lamp Luminous Flux. (8log(F/F0) = 11.8)

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Carl  
 Test Date: 2013-01-24

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.273  
 Humidity: 63.3%  
 Test Distance: 30.000m [K=1.0000]  
 Remarks:

# UTILIZATION FACTORS TABLE

Test:U:110.0V I:2.629A P:286.5W PF:0.9905 Lamp Flux:29824x1 lm		
NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:110V~60Hz	SERIAL No.:
MFR.: Dongguan city Lemark Lighting Technologies	LSDR.:	PROTECTION ANGLE:

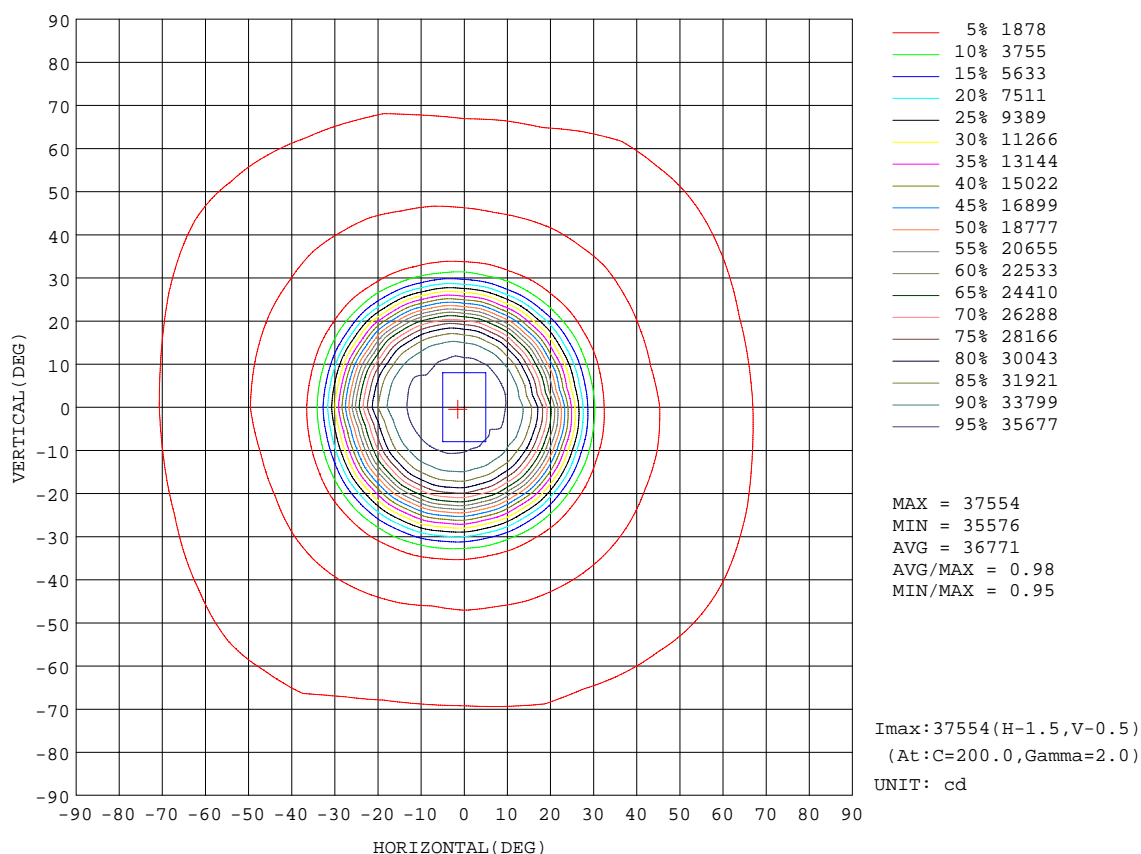
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	75	67	62	75	67	62	74	66	61	57
0.80	83	75	70	82	75	70	81	74	69	64
1.00	89	81	76	88	80	75	86	81	75	69
1.25	94	86	81	93	86	81	90	85	80	75
1.50	98	91	86	96	90	85	94	88	84	78
2.00	102	96	91	101	95	91	97	93	89	83
2.50	105	99	95	103	98	94	100	96	92	85
3.00	107	103	99	105	101	97	102	98	95	88
4.00	111	107	103	108	105	102	104	101	99	91
5.00	112	109	106	110	107	105	106	104	102	93
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.0DEG  
 Operators:Carl  
 Test Date:2013-01-24

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.273  
 Humidity:63.3%  
 Test Distance:30.000m [K=1.0000]  
 Remarks:

# ISOCANDELA DIAGRAM

Test:U:110.0V I:2.629A P:286.5W PF:0.9905 Lamp Flux:29824x1 lm		
NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:110V~60Hz	SERIAL No.:
MFR.: Dongguan city Lemark Lighting Technologies	LSDR.:	PROTECTION ANGLE:

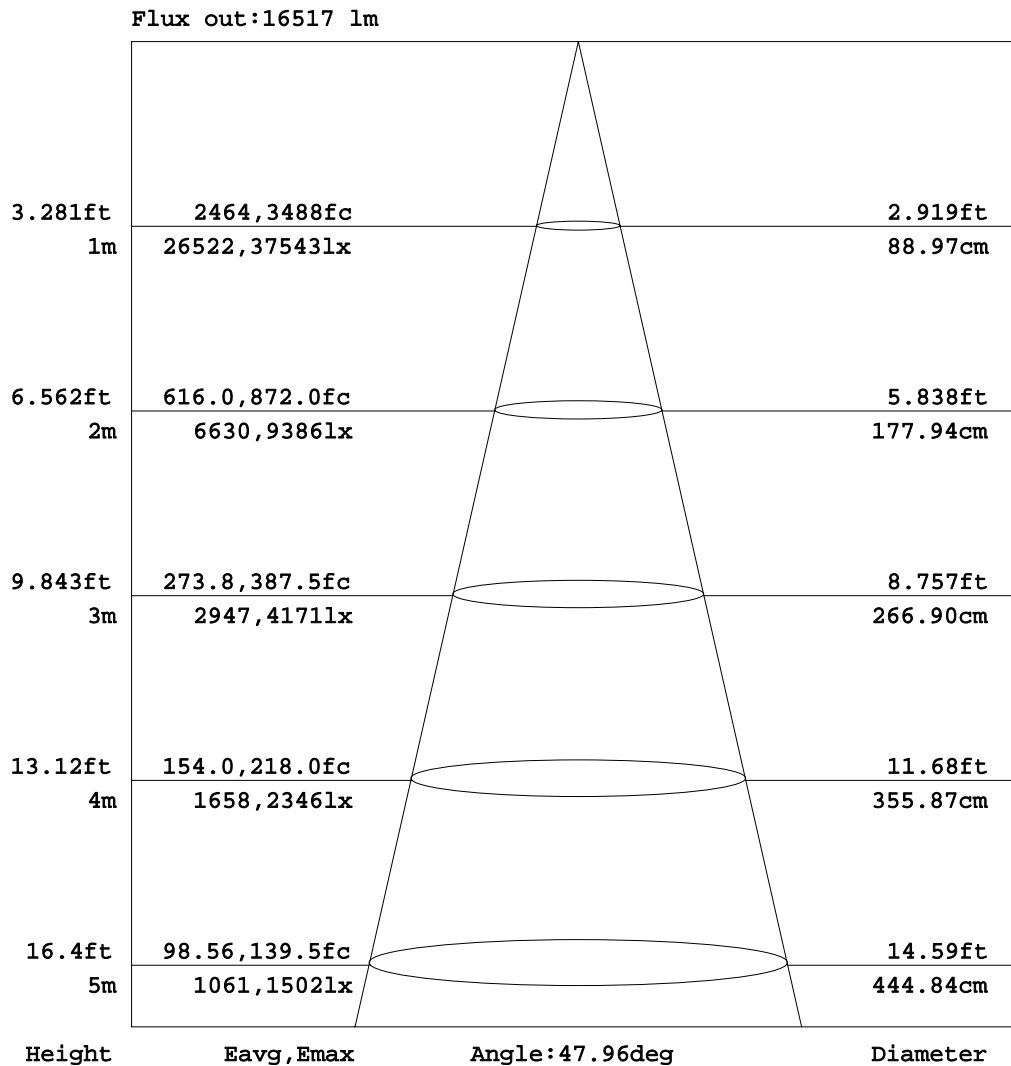


C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Carl  
 Test Date: 2013-01-24

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.273  
 Humidity: 63.3%  
 Test Distance: 30.000m [K=1.0000]  
 Remarks:

# AAI Figure

Test:U:110.0V I:2.629A P:286.5W PF:0.9905 Lamp Flux:29824x1 lm		
NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:110V~60Hz	SERIAL No.:
MFR.: Dongguan city Lemark Lighting Technologies	LSDR.:	PROTECTION ANGLE:



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

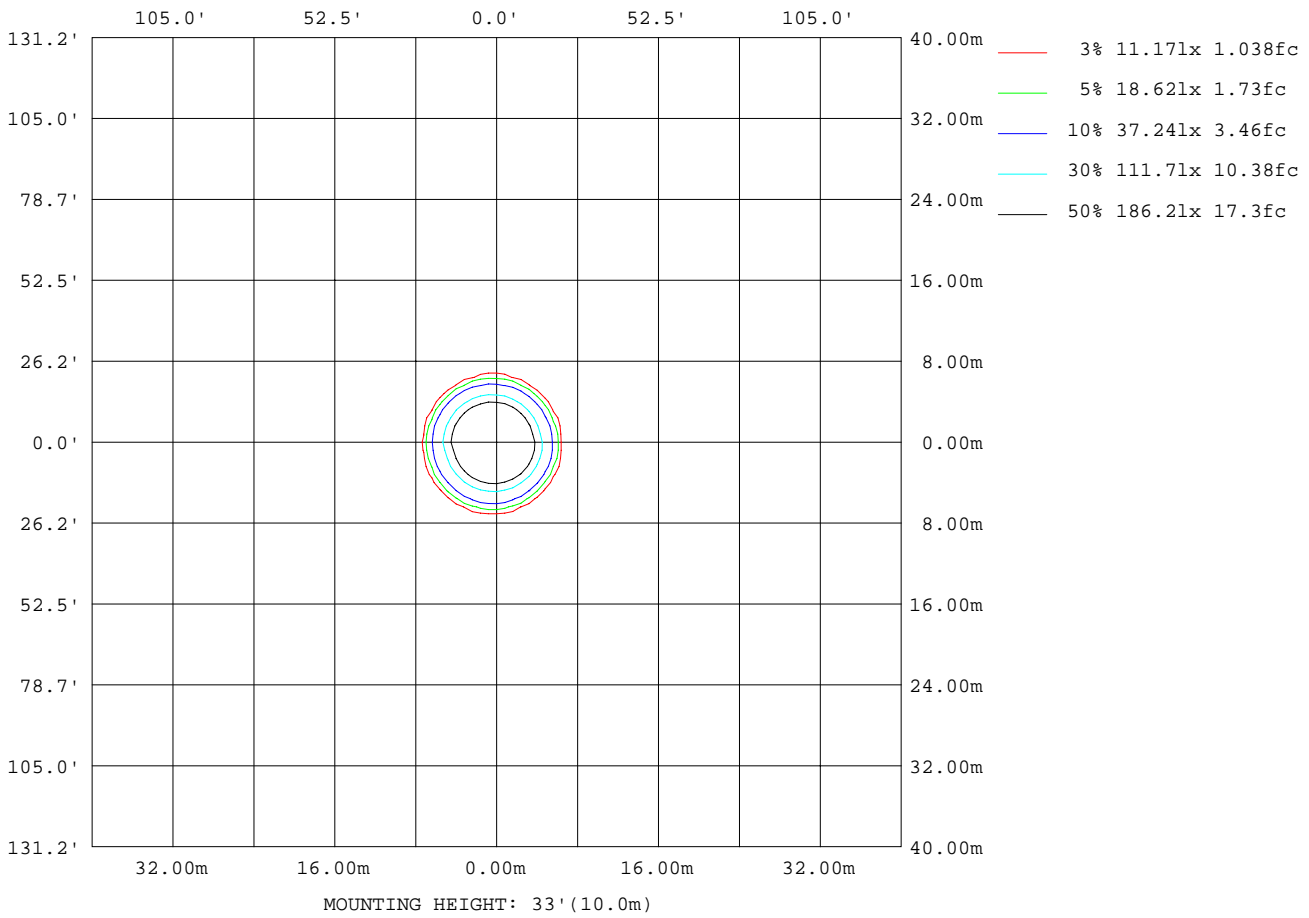
C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.0DEG  
 Operators:Carl  
 Test Date:2013-01-24

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.273  
 Humidity:63.3%  
 Test Distance:30.000m [K=1.0000]  
 Remarks:



# ISOLUX DIAGRAM

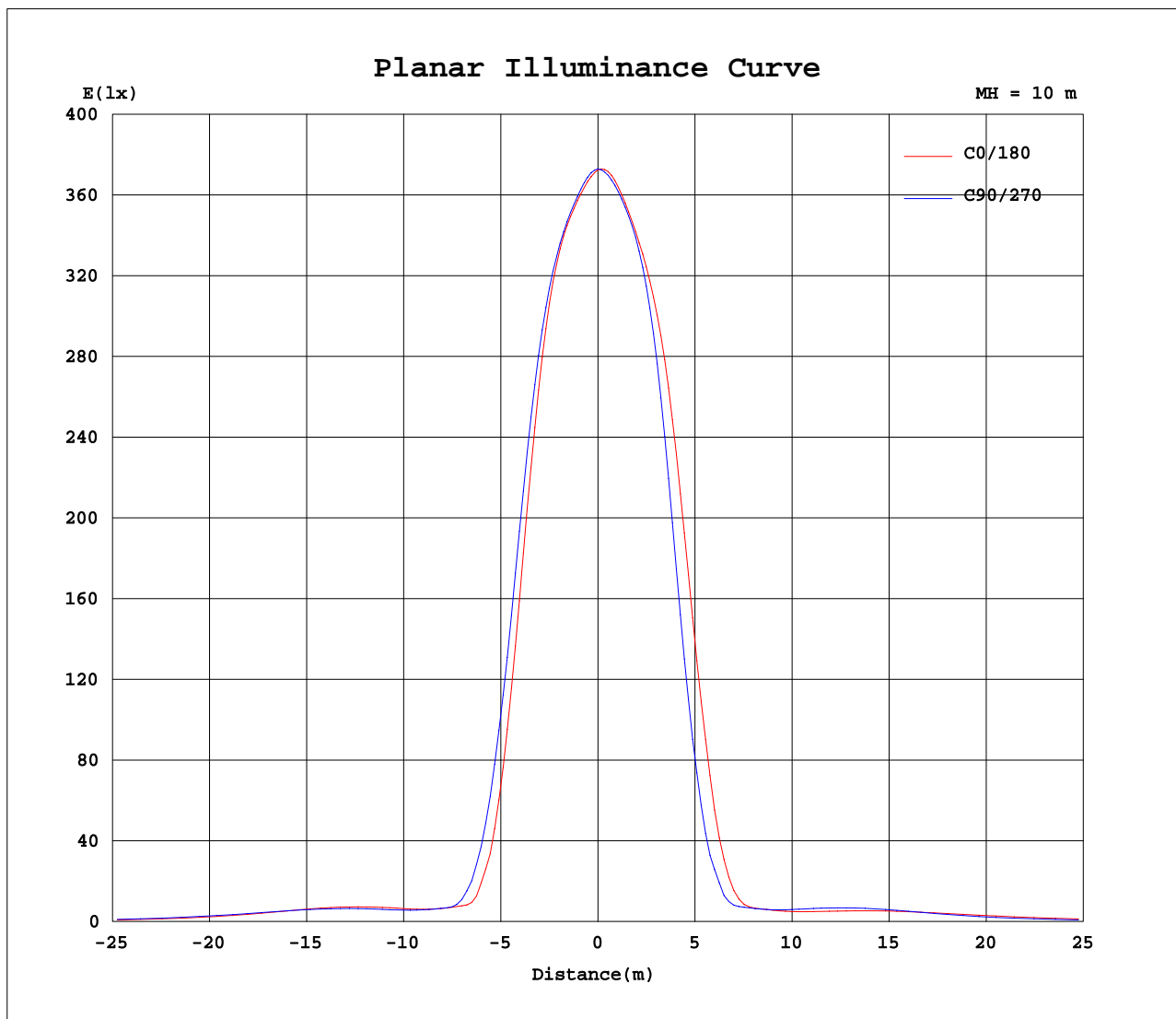
Test:U:110.0V I:2.629A P:286.5W PF:0.9905 Lamp Flux:29824x1 lm		
NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:110V~60Hz	SERIAL No.:
MFR.: Dongguan city Lemark Lighting Technologies	LSDR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Carl  
 Test Date: 2013-01-24

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.273  
 Humidity: 63.3%  
 Test Distance: 30.000m [K=1.0000]  
 Remarks:

# Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Carl  
 Test Date: 2013-01-24

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.273  
 Humidity: 63.3%  
 Test Distance: 30.000m [K=1.0000]  
 Remarks:

# LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:110.0V I:2.629A P:286.5W PF:0.9905 Lamp Flux:29824x1 lm		
NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:110V~60Hz	SERIAL No.:
MFR.: Dongguan city Lemark Lighting Technologies	LSDR.:	PROTECTION ANGLE:

Table--1

UNIT: x10cd

C (DEG) \ γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
0	3731	3731	3731	3731	3731	3731	3731	3731	3731	3731	3731	3731	3731	3731	3731	3731	3731	3731	3731	3731
5	3655	3652	3650	3651	3655	3663	3661	3667	3666	3672	3676	3686	3686	3694	3705	3706	3710	3716	3721	3721
10	3564	3559	3552	3555	3560	3568	3564	3570	3566	3580	3584	3595	3594	3608	3622	3622	3625	3636	3639	3639
15	3268	3275	3260	3278	3308	3331	3327	3346	3347	3378	3382	3406	3404	3433	3441	3451	3453	3475	3528	3528
20	2473	2501	2477	2519	2592	2643	2638	2705	2723	2803	2824	2895	2910	2969	2972	3013	2990	3020	3193	3193
25	1282	1345	1324	1399	1465	1533	1540	1629	1660	1759	1794	1890	1912	1996	1996	2058	2031	2063	2313	2313
30	404	409	441	455	495	548	577	643	677	754	786	857	882	941	952	989	977	994	1117	1117
35	144	141	141	142	146	152	154	172	180	200	212	242	246	271	270	288	272	278	280	280
40	140	139	140	140	144	144	141	140	142	139	146	144	139	141	139	143	146	140	141	141
45	183	178	183	179	179	175	170	165	165	161	169	162	157	155	153	156	160	153	142	142
50	275	271	275	270	267	261	257	248	247	240	245	233	227	222	220	221	226	219	194	194
55	355	352	355	351	348	345	345	339	339	332	333	325	318	314	310	310	313	308	285	285
60	338	346	346	343	342	345	356	362	362	360	351	356	358	358	354	349	347	349	349	349
65	232	243	245	240	240	248	266	288	290	283	275	280	297	309	305	290	280	288	317	317
70	128	148	143	135	133	146	152	188	181	172	170	169	185	214	198	192	174	174	205	205
75	64.3	70.4	73.4	65.3	69.4	75.0	78.7	96.8	98.2	84.4	94.4	86.7	96.0	122	111	106	95.6	89.2	105	105
80	31.1	32.9	32.7	34.4	36.5	38.0	41.4	43.5	45.5	47.2	47.9	48.8	53.5	51.9	57.9	52.4	52.8	50.6	49.5	49.5
85	12.1	13.5	13.6	14.5	16.2	18.0	18.4	20.1	21.4	22.7	23.8	25.1	25.7	25.7	26.6	27.0	25.7	25.3	24.7	24.7
90	0.81	0.89	1.07	1.12	1.56	2.16	2.52	3.35	3.91	4.93	5.82	6.50	6.98	7.64	7.64	8.24	7.89	7.37	6.93	6.93
95	0.61	0.54	0.63	0.53	0.64	0.53	0.56	0.54	0.64	0.54	0.63	0.52	0.65	0.55	0.66	0.55	0.65	0.54	0.45	0.45
100	0.74	0.68	0.76	0.64	0.68	0.62	0.71	0.65	0.72	0.60	0.66	0.57	0.68	0.61	0.65	0.59	0.66	0.59	0.43	0.43
105	0.93	0.88	0.93	0.82	0.88	0.79	0.88	0.80	0.86	0.75	0.79	0.73	0.83	0.76	0.82	0.72	0.79	0.71	0.49	0.49
110	1.08	1.03	1.09	0.98	1.03	0.97	1.03	0.96	1.01	0.92	0.96	0.90	1.01	0.92	0.98	0.90	0.97	0.90	0.61	0.61
115	1.16	1.12	1.17	1.09	1.14	1.09	1.15	1.09	1.14	1.07	1.12	1.04	1.12	1.07	1.14	1.07	1.13	1.07	0.72	0.72
120	1.10	1.10	1.16	1.09	1.14	1.10	1.16	1.12	1.20	1.11	1.17	1.11	1.17	1.13	1.18	1.13	1.19	1.13	0.77	0.77
125	1.06	1.02	1.05	1.01	1.06	1.02	1.07	1.03	1.08	1.04	1.00	1.05	1.10	1.06	1.10	1.07	1.13	1.07	0.81	0.81
130	1.12	1.08	1.10	1.03	1.07	1.02	1.05	0.99	1.04	1.00	1.03	0.98	1.02	0.98	1.02	0.98	1.03	0.92	0.81	0.81
135	1.62	1.55	1.57	1.47	1.48	1.40	1.39	1.29	1.30	1.23	1.24	1.17	1.19	1.12	1.15	1.09	1.12	1.08	0.87	0.87
140	2.56	2.46	2.44	2.29	2.30	2.14	2.08	1.92	1.89	1.76	1.74	1.64	1.64	1.54	1.57	1.51	1.54	1.50	1.04	1.04
145	3.86	3.72	3.69	3.49	3.49	3.27	3.15	2.93	2.86	2.69	2.64	2.50	2.48	2.38	2.41	2.35	2.41	2.37	1.41	1.41
150	5.28	5.15	5.11	4.93	4.94	4.72	4.61	4.38	4.31	4.11	4.07	3.89	3.86	3.74	3.76	3.67	3.72	3.66	2.11	2.11
155	6.53	6.43	6.40	6.26	6.26	6.09	5.99	5.81	5.75	5.59	5.53	5.38	5.35	5.23	5.25	5.17	5.20	5.17	3.16	3.16
160	7.38	7.30	7.23	7.13	7.15	7.02	6.94	6.79	6.74	6.62	6.57	6.45	6.42	6.33	6.35	6.29	6.32	6.29	4.14	4.14
165	8.09	8.02	7.97	7.90	7.89	7.77	7.73	7.62	7.57	7.47	7.43	7.35	7.31	7.25	7.25	7.22	7.22	7.22	5.05	5.05
170	9.50	9.42	9.39	9.29	9.31	9.18	9.14	8.99	8.94	8.83	8.80	8.68	8.65	8.58	8.60	8.55	8.57	8.56	7.12	7.12
175	10.2	10.2	10.2	10.1	10.1	10.0	10.1	9.95	9.95	9.88	9.87	9.80	9.79	9.74	9.77	9.73	9.75	9.74	9.21	9.21
180	10.0	10.0	9.99	9.98	10.0	9.97	9.99	9.96	9.96	9.96	9.98	9.98	9.96	9.97	10.00	10.0	9.99	10.0	10.1	10.1

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Carl  
 Test Date: 2013-01-24

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.273  
 Humidity: 63.3%  
 Test Distance: 30.000m [K=1.0000]  
 Remarks:

# LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:110.0V I:2.629A P:286.5W PF:0.9905 Lamp Flux:29824x1 lm		
NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:110V~60Hz	SERIAL No.:
MFR.: Dongguan city Lemark Lighting Technologies	LSDR.:	PROTECTION ANGLE:

Table--2

UNIT: x10cd

C (DEG) \ γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	3731	3731	3731	3731	3731	3731	3731	3731	3731	3731	3731	3731	3731	3731	3731	3731	3731		
5	3717	3725	3718	3716	3708	3710	3696	3700	3691	3693	3685	3679	3674	3672	3668	3664	3667		
10	3636	3638	3638	3630	3623	3628	3614	3623	3610	3609	3598	3587	3577	3571	3560	3550	3547		
15	3523	3518	3509	3513	3487	3477	3440	3425	3375	3356	3307	3281	3233	3217	3170	3159	3141		
20	3155	3132	3062	3093	2989	2929	2825	2766	2648	2597	2483	2446	2354	2344	2270	2279	2242		
25	2231	2195	2075	2091	1928	1832	1683	1611	1477	1434	1320	1295	1208	1204	1147	1172	1142		
30	1041	1013	909	890	779	721	622	578	507	476	450	411	390	374	377	363	379		
35	257	246	217	212	188	179	161	157	148	146	141	141	141	139	138	141	139		
40	139	141	141	144	138	136	137	137	139	143	139	138	140	139	144	148	146		
45	142	144	149	150	151	150	158	160	170	179	181	182	189	190	201	204	203		
50	198	203	212	212	220	222	235	241	256	266	270	274	282	284	294	297	297		
55	289	293	302	302	311	313	323	329	336	340	343	347	352	353	354	354	357		
60	348	346	343	343	340	341	336	337	327	318	319	326	325	327	312	313	316		
65	311	296	274	271	262	273	264	252	228	225	214	233	235	219	209	202	202		
70	205	193	168	158	155	160	175	149	126	127	113	126	142	125	119	109	111		
75	115	108	90.1	79.6	81.4	78.0	87.4	74.8	66.1	62.5	60.5	60.5	64.0	63.6	58.8	55.0	57.9		
80	53.2	50.2	46.3	42.9	39.4	41.9	37.8	37.4	35.7	32.9	31.4	31.9	30.1	31.6	29.1	29.7	29.3		
85	24.5	23.8	21.8	21.1	19.6	18.6	16.9	17.2	14.3	14.1	12.2	12.5	11.4	11.3	11.3	11.3	11.3		
90	6.26	5.82	4.51	4.12	3.16	2.55	1.92	1.54	1.15	0.95	0.84	0.77	0.83	0.75	0.83	0.72	0.85		
95	0.55	0.44	0.55	0.46	0.56	0.47	0.58	0.48	0.58	0.50	0.59	0.50	0.61	0.52	0.60	0.51	0.60		
100	0.53	0.43	0.53	0.46	0.55	0.47	0.59	0.50	0.58	0.51	0.59	0.52	0.62	0.54	0.61	0.53	0.60		
105	0.58	0.50	0.59	0.52	0.61	0.55	0.65	0.57	0.65	0.57	0.65	0.59	0.68	0.61	0.67	0.59	0.67		
110	0.69	0.62	0.71	0.64	0.72	0.67	0.76	0.69	0.77	0.70	0.77	0.71	0.79	0.73	0.78	0.71	0.78		
115	0.79	0.73	0.80	0.75	0.82	0.77	0.86	0.80	0.86	0.81	0.86	0.81	0.88	0.82	0.87	0.80	0.87		
120	0.84	0.78	0.84	0.80	0.86	0.82	0.90	0.84	0.89	0.84	0.89	0.84	0.91	0.85	0.90	0.84	0.90		
125	0.86	0.81	0.87	0.83	0.87	0.84	0.91	0.86	0.90	0.85	0.89	0.84	0.89	0.85	0.88	0.83	0.90		
130	0.86	0.82	0.87	0.82	0.87	0.84	0.90	0.86	0.90	0.86	0.90	0.85	0.90	0.87	0.90	0.86	0.91		
135	0.91	0.87	0.93	0.90	0.95	0.93	0.99	0.97	1.03	1.00	1.05	1.01	1.07	1.05	1.09	1.05	1.09		
140	1.08	1.05	1.11	1.11	1.17	1.15	1.21	1.19	1.26	1.27	1.34	1.31	1.37	1.36	1.42	1.38	1.42		
145	1.46	1.43	1.51	1.54	1.61	1.61	1.69	1.68	1.78	1.80	1.88	1.86	1.94	1.93	1.99	1.95	1.99		
150	2.15	2.14	2.23	2.30	2.38	2.38	2.48	2.49	2.61	2.64	2.75	2.74	2.84	2.83	2.89	2.84	2.88		
155	3.21	3.18	3.27	3.35	3.43	3.44	3.54	3.58	3.70	3.73	3.84	3.84	3.94	3.92	3.98	3.93	3.97		
160	4.17	4.14	4.22	4.28	4.35	4.39	4.49	4.50	4.61	4.62	4.72	4.70	4.79	4.77	4.81	4.77	4.81		
165	5.08	5.03	5.12	5.19	5.29	5.29	5.38	5.39	5.48	5.49	5.58	5.56	5.64	5.63	5.67	5.61	5.65		
170	7.15	7.13	7.22	7.35	7.45	7.50	7.62	7.67	7.82	7.86	7.98	7.97	8.09	8.09	8.15	8.09	8.14		
175	9.17	9.14	9.18	9.26	9.30	9.31	9.33	9.37	9.43	9.47	9.52	9.51	9.57	9.59	9.62	9.60	9.64		
180	10.00	9.96	9.97	9.99	9.99	9.97	9.95	9.95	9.97	9.96	9.97	9.95	9.96	9.98	9.99	9.98	10.0		

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Carl  
 Test Date: 2013-01-24

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.273  
 Humidity: 63.3%  
 Test Distance: 30.000m [K=1.0000]  
 Remarks: