

LED Downlight TAKEO Series LE-  
T150-18W-830-60

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Light Output Ratio:	100.0%	
Luminaire Power:	17.45 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.95	fine grid method.

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C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Meng Yongjian  
Test Date: 2018-01-22

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
Humidity: 52%  
Test Distance: 5.850m [K=1.0000]  
Remarks:

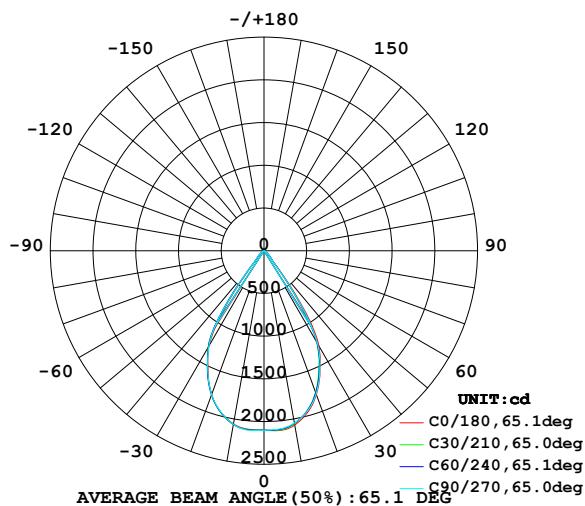
# GONIOPHOTOMETERS SYSTEM TEST REPORT

## LUMINAIRE PHOTOMETRIC TEST REPORT

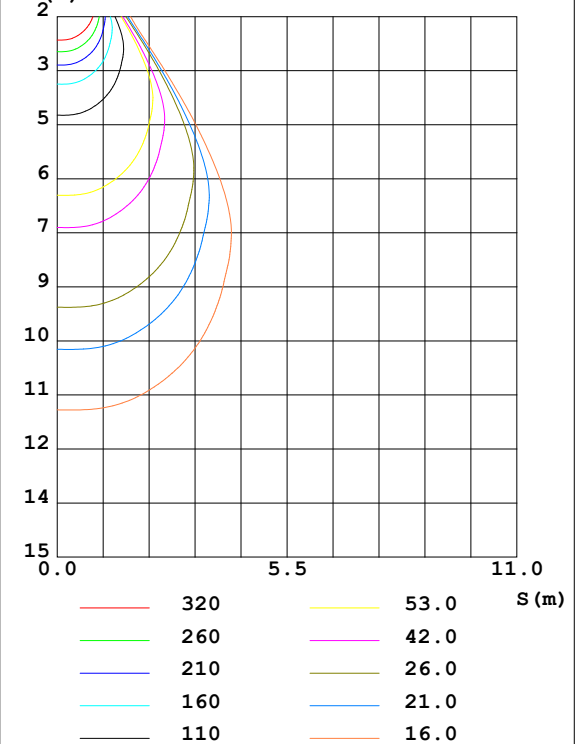
Test:U:34.90V I:0.5000A P:17.45W PF:1.000 Lamp Flux:2027.53x1 lm		
NAME: T150-18W-830-60	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: $\phi$ 160mm*H100mm	
MFR.:		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 116.19 lm/W			
MODEL	CITIZEN-3000K	I <sub>max</sub> (cd)	2114	S/MH (C0/180)	0.94
NOMINAL POWER (W)	18	LOR (%)	100.0	S/MH (C90/270)	0.96
RATED VOLTAGE (V)	36	TOTAL FLUX (lm)	2027.5	$\eta$ UP,DN (C0-180)	0.0,49.6
NOMINAL FLUX (lm)	2027.53	CIE CLASS	DIRECT	$\eta$ UP,DN (C180-360)	0.0,50.4
LAMPS INSIDE	1	$\eta$ up (%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	34.9	$\eta$ down (%)	100.0	CIBSE SHR MAX	0.95

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Meng Yongjian  
Test Date:2018-01-22

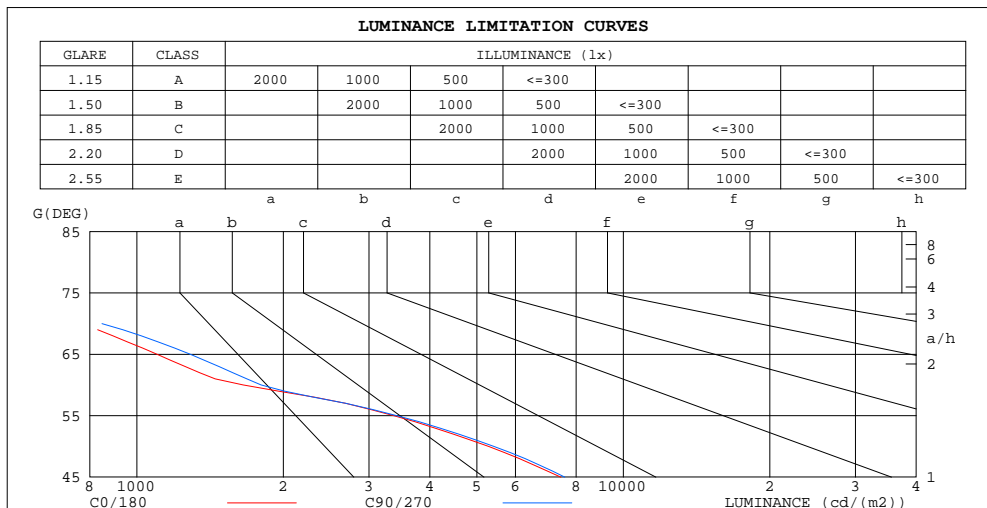
$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
Humidity:52%  
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## ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

### ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum, lamp
10	2072	2055	2048	2051	2059	2063	2064	2060	0- 10	199.4	199.4	9.83,9.83
20	1794	1770	1785	1796	1790	1792	1792	1776	10- 20	546.5	745.9	36.8,36.8
30	1285	1245	1253	1293	1290	1298	1294	1263	20- 30	707.5	1453	71.7,71.7
40	190.5	172.1	174.5	182.2	177.8	205.0	202.7	176.8	30- 40	441.6	1895	93.5,93.5
50	68.24	67.01	69.99	67.30	64.55	69.37	71.41	65.60	40- 50	84.36	1979	97.6,97.6
60	16.61	16.66	18.09	16.33	14.89	17.83	19.42	15.80	50- 60	35.25	2015	99.4,99.4
70	5.285	5.388	5.825	5.119	4.816	5.770	6.429	5.113	60- 70	10.17	2025	99.9,99.9
80	0.5344	0.2984	0.1825	0.3266	0.3825	0.3390	0.1549	0.2905	70- 80	2.585	2027	100,100
90	0.1268	0.1224	0.1224	0.1203	0.0700	0.0700	0.0722	0.0700	80- 90	0.1387	2028	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		



LUMINANCE cd/(m2)		
G(°)	C0/180	C90/270
85	80	72
80	153	52
75	470	399
70	769	848
65	1100	1287
60	1653	1801
55	3374	3423
50	5283	5418
45	7438	7579

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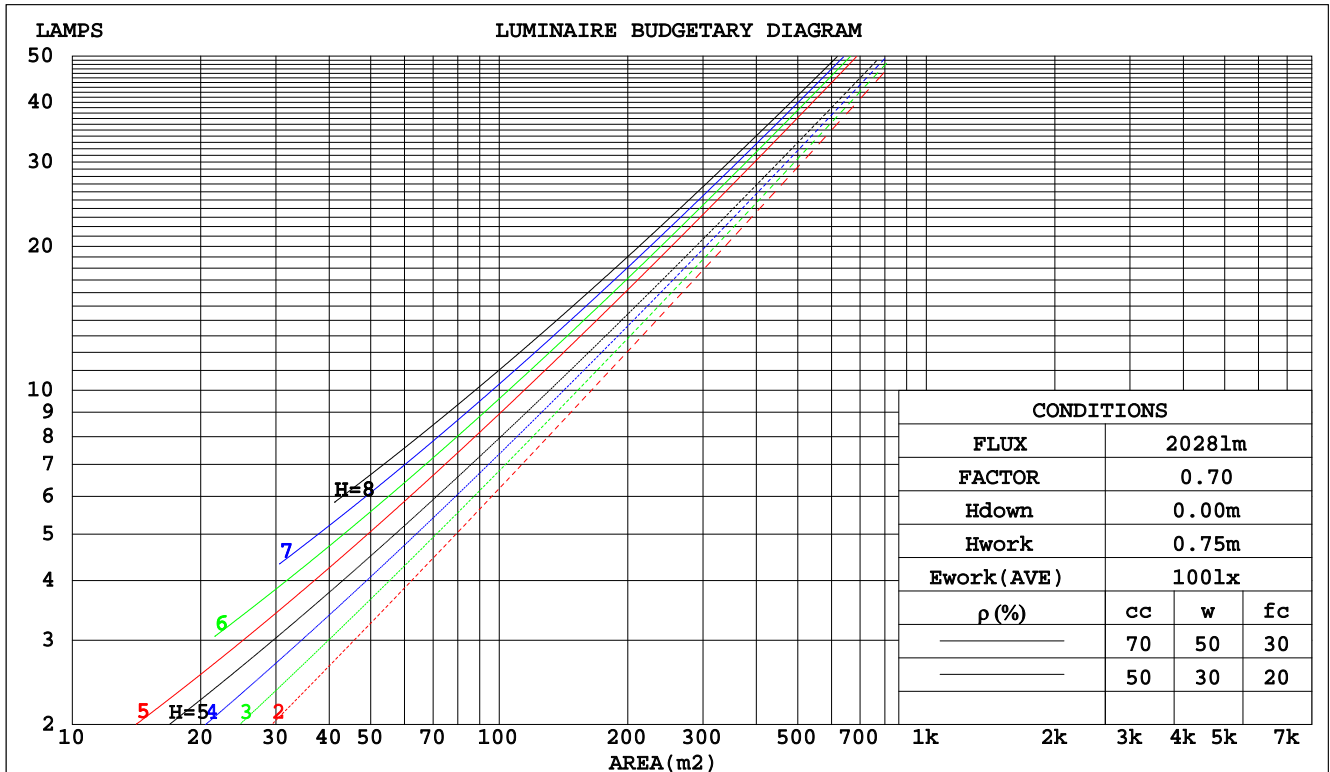
$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity: 52%  
 Test Distance: 5.850m [K=1.0000]  
 Remarks:

# GONIOPHOTOMETERS SYSTEM TEST REPORT

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:34.90V I:0.5000A P:17.45W PF:1.000 Lamp Flux:2027.53x1 lm		
NAME: T150-18W-830-60	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: $\phi$ 160mm*H100mm	
MFR.:		

$\rho_{cc}$	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
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	1.11	1.08	1.06	1.09	1.06	1.04	1.04	1.03	1.01	1.01	.99	.98	.97	.96	.95	.93
2.0	1.03	.99	.96	1.01	.98	.94	.98	.95	.92	.95	.93	.90	.92	.90	.88	.87
3.0	.96	.91	.87	.95	.90	.86	.92	.88	.85	.89	.86	.84	.87	.85	.82	.81
4.0	.90	.84	.80	.88	.83	.79	.86	.82	.78	.84	.80	.77	.82	.79	.77	.75
5.0	.84	.78	.74	.83	.77	.73	.81	.76	.73	.79	.75	.72	.78	.74	.71	.70
6.0	.79	.73	.68	.78	.72	.68	.76	.71	.68	.75	.70	.67	.74	.70	.67	.65
7.0	.74	.68	.64	.73	.67	.63	.72	.67	.63	.71	.66	.63	.70	.65	.62	.61
8.0	.70	.64	.59	.69	.63	.59	.68	.63	.59	.67	.62	.59	.66	.62	.58	.57
9.0	.66	.60	.56	.65	.59	.56	.64	.59	.55	.63	.59	.55	.62	.58	.55	.54
10.0	.62	.56	.52	.62	.56	.52	.61	.56	.52	.60	.55	.52	.59	.55	.52	.50



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## WEC AND CCEC

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SPEC.:3000K					DIM.: φ160mm*H100mm				
MFR.:									

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	.179	.102	.032	.172	.098	.031	.159	.091	.029	.148	.085	.027	.137	.080	.026	
2.0	.172	.094	.029	.166	.091	.028	.155	.086	.027	.146	.082	.026	.137	.077	.024	
3.0	.164	.087	.026	.159	.085	.026	.150	.081	.025	.142	.078	.024	.134	.074	.023	
4.0	.156	.081	.024	.152	.080	.024	.144	.076	.023	.137	.074	.022	.130	.071	.022	
5.0	.149	.076	.022	.145	.075	.022	.139	.072	.021	.132	.070	.021	.126	.067	.020	
6.0	.142	.071	.020	.139	.070	.020	.133	.068	.020	.128	.066	.019	.122	.064	.019	
7.0	.136	.067	.019	.133	.066	.019	.128	.065	.019	.123	.063	.018	.118	.061	.018	
8.0	.130	.064	.018	.128	.063	.018	.123	.062	.018	.119	.060	.017	.114	.059	.017	
9.0	.125	.060	.017	.123	.060	.017	.119	.059	.017	.114	.057	.016	.111	.056	.016	
10.0	.120	.058	.016	.118	.057	.016	.114	.056	.016	.110	.055	.016	.107	.054	.015	

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020		
1.0	.171	.157	.145	.147	.135	.125	.100	.093	.086	.058	.054	.050	.018	.017	.016		
2.0	.156	.132	.113	.134	.114	.097	.092	.079	.068	.053	.046	.040	.017	.015	.013		
3.0	.144	.114	.089	.123	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010		
4.0	.134	.099	.072	.115	.085	.063	.079	.060	.044	.046	.035	.026	.015	.011	.009		
5.0	.125	.087	.059	.108	.076	.052	.074	.053	.036	.043	.031	.022	.014	.010	.007		
6.0	.118	.078	.049	.102	.068	.043	.070	.047	.030	.041	.028	.018	.013	.009	.006		
7.0	.112	.071	.042	.096	.061	.036	.066	.043	.026	.039	.025	.015	.012	.008	.005		
8.0	.106	.064	.036	.091	.056	.031	.063	.039	.022	.037	.023	.013	.012	.008	.004		
9.0	.101	.059	.031	.087	.051	.027	.060	.036	.019	.035	.021	.011	.011	.007	.004		
10.0	.097	.055	.027	.083	.048	.024	.058	.034	.017	.034	.020	.010	.011	.007	.003		

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
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γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity:52%  
 Test Distance:5.850m [K=1.0000]  
 Remarks:

# GONIOPHOTOMETERS SYSTEM TEST REPORT

## UGR(Unified Glare Rating) Table

Test:U:34.90V I:0.5000A P:17.45W PF:1.000 Lamp Flux:2027.53x1 lm		
NAME: T150-18W-830-60	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: $\phi$ 160mm*H100mm	
MFR.:		

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	16.8	17.8	17.0	17.9	18.1	16.5	17.5	16.7	17.6	17.8
3H	16.7	17.5	16.9	17.7	17.9	16.4	17.3	16.6	17.5	17.7
4H	16.6	17.4	16.9	17.6	17.9	16.3	17.1	16.6	17.3	17.6
6H	16.5	17.3	16.8	17.5	17.8	16.2	17.0	16.5	17.2	17.5
8H	16.4	17.2	16.8	17.4	17.7	16.2	16.9	16.5	17.2	17.4
12H	16.4	17.1	16.7	17.4	17.7	16.1	16.8	16.4	17.1	17.4
4H 2H	16.6	17.4	16.9	17.6	17.9	16.3	17.1	16.6	17.3	17.6
3H	16.4	17.1	16.8	17.4	17.7	16.1	16.9	16.5	17.1	17.4
4H	16.3	17.0	16.7	17.3	17.6	16.1	16.7	16.4	17.0	17.3
6H	16.3	16.8	16.6	17.2	17.5	16.0	16.5	16.3	16.9	17.2
8H	16.2	16.7	16.6	17.1	17.4	15.9	16.4	16.3	16.8	17.2
12H	16.2	16.6	16.6	17.0	17.4	15.9	16.3	16.3	16.7	17.1
8H 4H	16.2	16.7	16.6	17.1	17.4	15.9	16.4	16.3	16.8	17.2
6H	16.1	16.5	16.5	16.9	17.3	15.8	16.2	16.2	16.6	17.1
8H	16.1	16.4	16.5	16.8	17.3	15.8	16.1	16.2	16.6	17.0
12H	16.0	16.3	16.5	16.8	17.2	15.7	16.0	16.2	16.5	16.9
12H 4H	16.2	16.6	16.6	17.0	17.4	15.9	16.3	16.3	16.7	17.1
6H	16.1	16.4	16.5	16.8	17.3	15.8	16.1	16.2	16.6	17.0
8H	16.0	16.3	16.5	16.8	17.2	15.7	16.0	16.2	16.5	16.9
Variations with the observer position at spacings:										
S = 1.0H	+ 4.4 / - 7.2					+ 4.1 / - 6.1				
1.5H	+ 6.3 / - 5.1					+ 5.7 / - 4.2				
2.0H	+ 4.0 / - 5.8					+ 4.0 / - 5.4				

CIE Pub.117 Corrected 2028 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.5)

C Range: 0 - 360DEG  
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Temperature:25.3DEG  
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$\gamma$  Range: 0 - 90DEG  
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Humidity:52%  
Test Distance:5.850m [K=1.0000]  
Remarks:

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## UTILIZATION FACTORS TABLE

Test:U:34.90V I:0.5000A P:17.45W PF:1.000 Lamp Flux:2027.53x1 lm		
NAME: T150-18W-830-60	TYPE:Downlight	SERIAL No.:
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MFR.:		

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) $k(RI) \times RCR = 5$									
$k = 0.60$	87	81	77	87	81	77	86	80	77	73
0.80	95	89	85	94	89	85	93	88	85	81
1.00	99	94	90	99	93	90	97	93	89	85
1.25	103	98	95	102	98	94	100	96	94	89
1.50	106	101	98	105	101	98	103	99	96	92
2.00	109	105	101	107	104	101	105	102	99	94
2.50	110	107	104	109	105	103	106	103	101	95
3.00	112	109	106	110	107	105	107	104	103	96
4.00	114	111	109	112	110	108	108	106	105	98
5.00	115	113	111	113	111	109	109	108	106	99
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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## ISOCANDELA DIAGRAM

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Conical surface Flux(90deg):

1944.8 lm

%lum = 95.9%

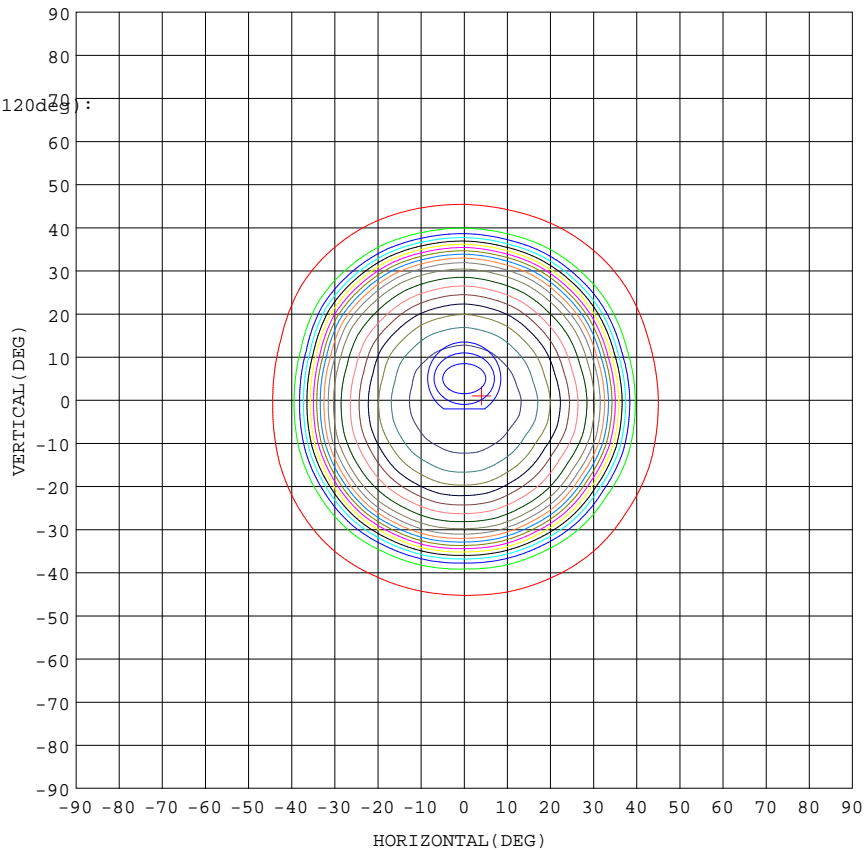
%lamp = 95.9%

Conical surface Flux(120deg):

2014.6 lm

%lum = 99.4%

%lamp = 99.4%



5%	105.7
10%	211.4
15%	317.0
20%	422.7
25%	528.4
30%	634.1
35%	739.8
40%	845.5
45%	951.1
50%	1057
55%	1163
60%	1268
65%	1374
70%	1480
75%	1585
80%	1691
85%	1797
90%	1902
95%	2008

1. AVG=2102,MIN=2085
2. AVG=2094,MIN=2046
3. AVG=2082,MIN=1992

Imax:2114 (H4.0,V1.0)  
(At:C=345.0,Gamma=5.0)

UNIT: cd

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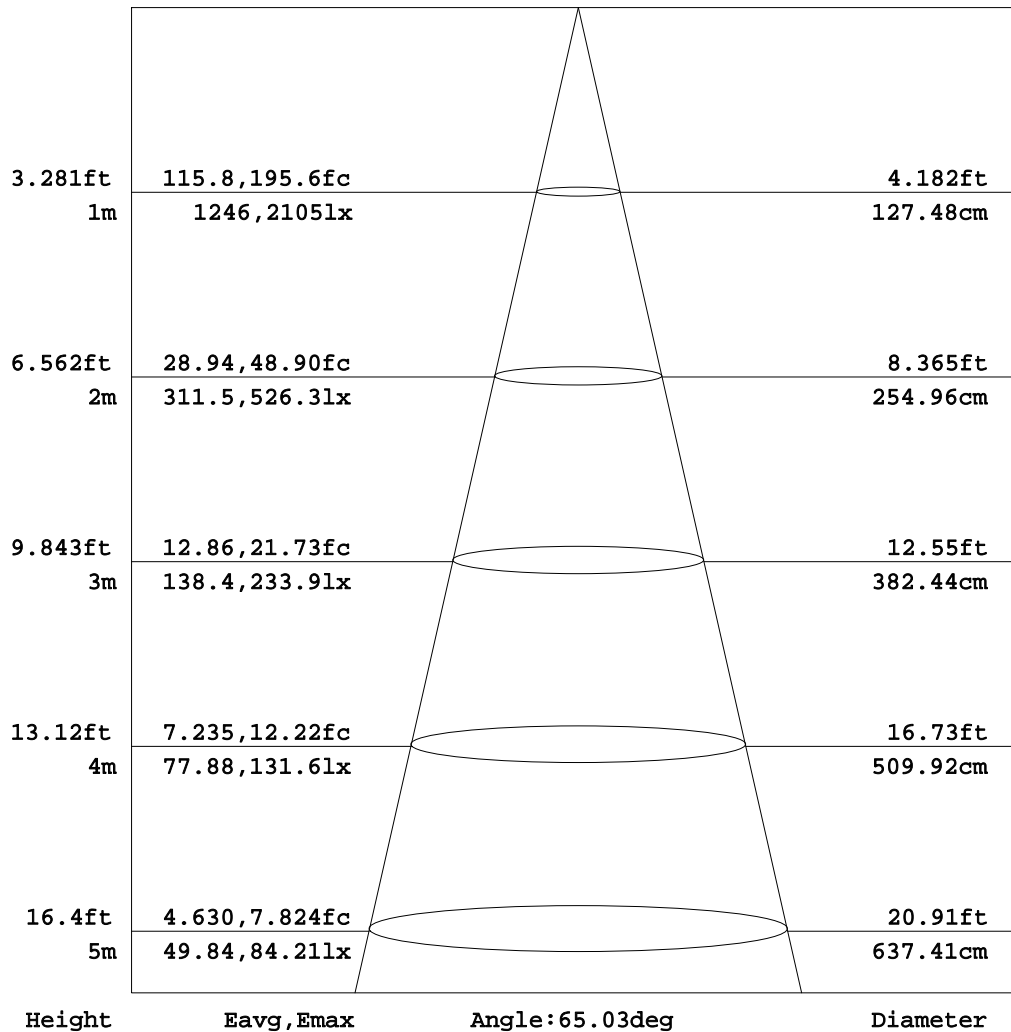
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## AAI Figure

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Flux out:1651 lm



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

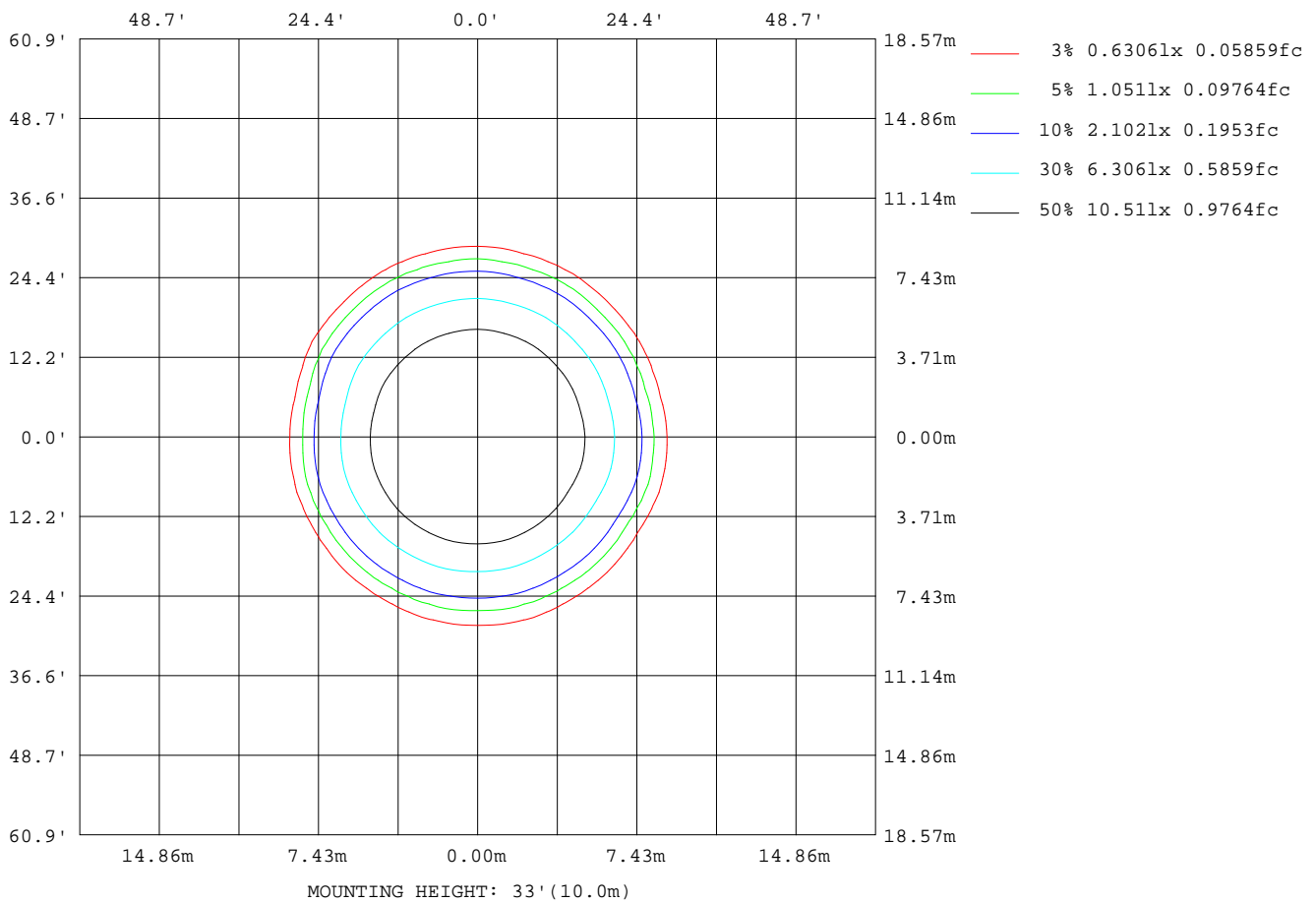
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## ISOLUX DIAGRAM

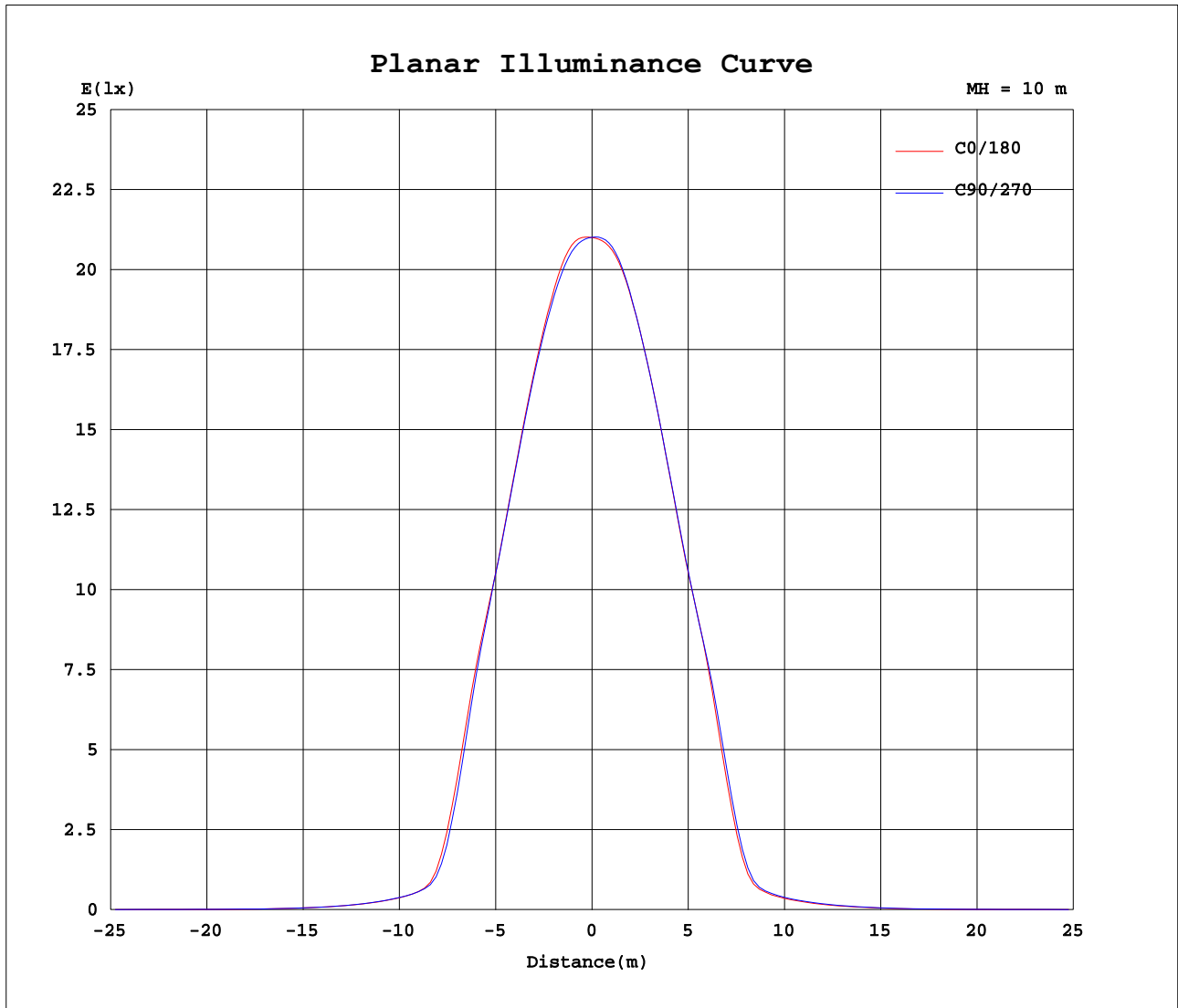
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$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
Humidity:52%  
Test Distance:5.850m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Meng Yongjian  
Test Date: 2018-01-22

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
Humidity: 52%  
Test Distance: 5.850m [K=1.0000]  
Remarks:

UNIT: cd

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

```

# GONIOPHOTOMETERS SYSTEM TEST REPORT

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:34.90V I:0.5000A P:17.45W PF:1.000    Lamp Flux:2027.53x1 lm		
NAME: T150-18W-830-60	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ160mm*H100mm	
MFR.:		

Table--2

UNIT: cd

[illegible]

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Meng Yongjian  
Test Date: 2018-01-22

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

```

# GONIOPHOTOMETERS SYSTEM TEST REPORT

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	2100	2100	2101	2100	2101	2101	2101	2102	2102	2103
3.0	2109	2107	2107	2105	2102	2100	2098	2098	2097	2098
6.0	2111	2109	2104	2100	2096	2093	2090	2089	2089	2089
9.0	2087	2086	2074	2072	2066	2065	2062	2063	2061	2065
12.0	2034	2034	2018	2017	2014	2016	2013	2015	2013	2018
15.0	1963	1963	1942	1944	1943	1949	1948	1951	1949	1954
18.0	1871	1871	1845	1849	1850	1860	1860	1866	1863	1871
21.0	1750	1750	1720	1727	1728	1741	1742	1751	1748	1755
24.0	1607	1608	1574	1583	1585	1601	1600	1611	1607	1615
27.0	1449	1458	1423	1426	1434	1442	1447	1452	1453	1464
30.0	1285	1287	1239	1245	1240	1258	1253	1272	1272	1293
33.0	1008	1010	927.3	931.5	917.5	939.0	935.9	967.7	972.8	1005
36.0	609.6	612.3	528.6	531.2	517.8	532.3	527.6	548.5	552.5	584.9
39.0	256.4	262.0	214.2	218.9	212.2	222.7	218.0	227.8	224.5	240.5
42.0	138.5	142.1	131.2	135.4	135.0	141.9	137.4	139.4	134.7	138.0
45.0	105.7	106.3	102.0	104.2	105.9	108.6	107.7	107.1	104.7	104.5
48.0	82.21	82.51	79.09	81.00	82.64	85.13	84.44	83.65	81.59	81.19
51.0	61.45	61.85	58.61	60.47	61.60	64.06	63.08	62.66	60.72	60.75
54.0	44.08	44.30	41.61	43.22	43.98	45.88	44.95	44.71	43.08	43.29
57.0	29.43	29.48	26.93	28.35	28.88	30.16	29.44	28.87	27.81	28.52
60.0	16.61	16.90	15.57	16.66	17.37	18.33	18.09	17.42	16.42	16.33
63.0	11.47	11.75	11.35	12.11	12.86	13.67	13.46	12.91	11.96	11.51
66.0	8.404	8.601	8.271	8.819	9.379	10.00	9.782	9.383	8.668	8.339
69.0	5.983	6.125	5.789	6.168	6.514	6.902	6.738	6.465	5.987	5.840
72.0	4.046	4.127	3.797	3.987	4.146	4.348	4.160	4.054	3.815	3.797
75.0	2.446	2.511	2.179	2.246	2.222	2.241	2.074	2.089	2.068	2.168
78.0	1.170	1.213	0.9530	0.8937	0.7242	0.6574	0.5686	0.6292	0.7019	0.8939
81.0	0.3020	0.3135	0.2183	0.1616	0.1708	0.1442	0.1642	0.1420	0.1664	0.1681
84.0	0.1510	0.1290	0.1401	0.1303	0.1356	0.1333	0.1334	0.1322	0.1313	0.1294
87.0	0.1334	0.1246	0.1247	0.1224	0.1246	0.1224	0.1225	0.1224	0.1225	0.1203
90.0	0.1268	0.1246	0.1224	0.1224	0.1224	0.1224	0.1224	0.1224	0.1203	0.1203
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	2102	2103	2100	2100	2101	2100	2101	2101	2101	2102
3.0	2098	2098	2099	2100	2100	2102	2103	2105	2106	2109
6.0	2090	2092	2095	2096	2100	2101	2102	2104	2105	2106
9.0	2066	2070	2072	2072	2079	2077	2079	2077	2079	2077
12.0	2018	2022	2022	2020	2031	2027	2028	2024	2025	2022
15.0	1954	1957	1955	1949	1961	1956	1958	1953	1955	1949
18.0	1869	1872	1867	1858	1872	1866	1869	1864	1866	1859
21.0	1752	1757	1747	1737	1757	1749	1754	1748	1749	1741
24.0	1611	1618	1604	1593	1619	1609	1616	1608	1610	1598
27.0	1459	1466	1450	1439	1463	1453	1460	1451	1454	1438
30.0	1294	1309	1290	1280	1310	1298	1305	1295	1294	1275
33.0	1006	1031	999.6	991.8	1066	1057	1070	1051	1054	1025
36.0	591.9	623.8	591.3	588.4	674.3	664.3	680.2	654.2	655.7	619.0
39.0	239.8	257.9	238.1	235.7	294.0	285.6	296.3	278.2	278.3	253.8
42.0	134.6	138.8	133.9	130.7	146.7	140.5	144.7	143.4	143.5	138.1
45.0	103.3	103.7	100.5	100.1	105.8	106.8	109.3	109.6	109.2	106.1
48.0	80.25	80.66	78.00	77.52	82.33	83.19	85.37	85.85	85.43	82.61
51.0	59.73	60.60	58.23	57.61	62.07	62.62	64.75	65.32	64.72	61.99
54.0	42.59	43.38	41.63	41.26	44.86	45.45	47.18	47.16	47.04	44.65
57.0	28.19	29.18	27.54	26.96	30.48	30.63	31.94	31.93	31.64	29.42
60.0	15.72	16.08	14.89	14.79	17.31	17.83	19.06	19.44	19.42	17.93
63.0	11.00	11.00	10.62	10.77	12.00	12.78	14.03	14.58	14.46	13.33
66.0	7.998	8.040	7.738	7.846	8.747	9.363	10.32	10.72	10.62	9.720
69.0	5.622	5.710	5.470	5.537	6.201	6.584	7.247	7.497	7.395	6.737
72.0	3.724	3.841	3.634	3.672	4.101	4.310	4.694	4.747	4.680	4.252
75.0	2.164	2.325	2.149	2.125	2.413	2.448	2.574	2.492	2.401	2.236
78.0	0.9878	1.110	0.9522	0.9366	1.085	0.9809	0.9269	0.7499	0.7350	0.6794
81.0	0.2512	0.2786	0.1828	0.1851	0.2455	0.1697	0.1331	0.1489	0.1287	0.1489
84.0	0.1313	0.1329	0.0895	0.1029	0.0938	0.1072	0.0830	0.1051	0.0852	0.1029
87.0	0.1225	0.1224	0.0700	0.0831	0.0678	0.0831	0.0700	0.0810	0.0722	0.0831
90.0	0.1224	0.1224	0.0700	0.0700	0.0700	0.0700	0.0700	0.0722	0.0722	0.0743
G/C	300.0	315.0	330.0	345.0						
0.0	2102	2103	2102	2103						
3.0	2110	2111	2111	2112						
6.0	2108	2108	2110	2110						
9.0	2079	2077	2079	2080						
12.0	2023	2020	2022	2022						
15.0	1951	1946	1949	1946						
18.0	1861	1854	1857	1852						
21.0	1742	1732	1735	1728						

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Meng Yongjian  
Test Date: 2018-01-22

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
Humidity: 52%  
Test Distance: 5.850m [K=1.0000]  
Remarks:

## GONIOPHOTOMETERS SYSTEM TEST REPORT

### Photometric Data Table [cd]

24.0	1599	1587	1591	1582
27.0	1440	1425	1431	1423
30.0	1277	1263	1269	1255
33.0	1023	991.1	990.2	963.2
36.0	611.5	581.2	581.7	561.3
39.0	251.7	233.5	236.5	225.2
42.0	138.7	132.8	135.4	131.7
45.0	104.5	102.2	102.3	101.7
48.0	81.15	79.28	79.41	79.09
51.0	60.84	58.94	59.37	58.94
54.0	43.47	42.02	42.36	41.82
57.0	28.50	27.30	27.69	27.48
60.0	16.98	15.80	15.55	15.08
63.0	12.46	11.56	11.26	10.96
66.0	9.042	8.398	8.201	8.021
69.0	6.301	5.846	5.773	5.675
72.0	4.028	3.789	3.778	3.793
75.0	2.190	2.108	2.188	2.209
78.0	0.7812	0.8361	0.9456	0.9870
81.0	0.1309	0.1628	0.1981	0.2027
84.0	0.0808	0.1051	0.0916	0.1095
87.0	0.0700	0.0788	0.0678	0.0875
90.0	0.0700	0.0700	0.0678	0.0722

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Meng Yongjian  
Test Date: 2018-01-22

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
Humidity: 52%  
Test Distance: 5.850m [K=1.0000]  
Remarks: