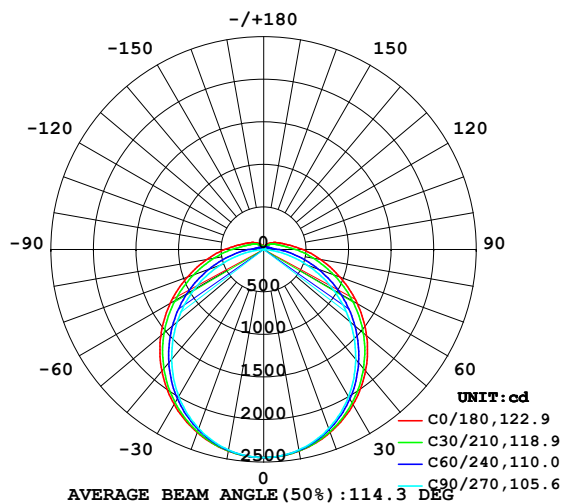


## LUMINAIRE PHOTOMETRIC TEST REPORT

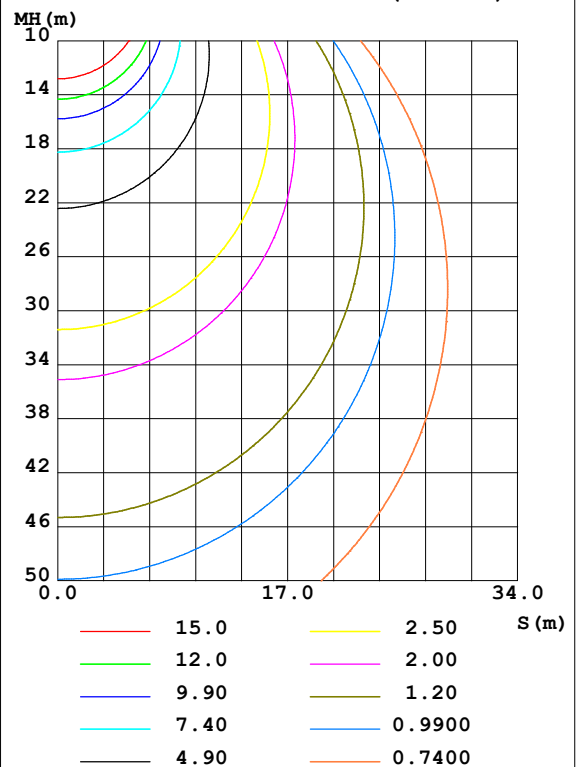
Test:U:230.4V I:0.2232A P:49.88W PF:0.9697 Freq:49.99Hz Lamp Flux:8121.25x1 lm		
NAME: T07CP-CC-50-1500K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 162.83 lm/W			
MODEL		I <sub>max</sub> (cd)	2446	S/MH (C0/180)	1.28
NOMINAL POWER (W)	11	LOR (%)	100.0	S/MH (C90/270)	1.22
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	8121.3	η UP, DN (C0-180)	4.0, 46.0
NOMINAL FLUX (lm)	8121.25	CIE CLASS	DIRECT	η UP, DN (C180-360)	4.0, 46.0
LAMPS INSIDE	1	η up (%)	8.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	230	η down (%)	92.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: QC  
Test Date: 2020-04-30

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 53.0%  
Test Distance: 10.380m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	2406	2401	2392	2401	2406	2401	2392	2401	0- 10	231.3	231.3	2.85,2.85
20	2288	2267	2239	2267	2288	2267	2239	2267	10- 20	661.2	892.5	11,11
30	2104	2056	1998	2056	2104	2056	1998	2056	20- 30	999.4	1892	23.3,23.3
40	1863	1785	1685	1785	1863	1785	1685	1785	30- 40	1203	3095	38.1,38.1
50	1580	1468	1327	1468	1580	1468	1327	1468	40- 50	1254	4349	53.5,53.5
60	1270	1129	944.4	1129	1270	1129	944.4	1129	50- 60	1156	5505	67.8,67.8
70	956.7	790.6	550.6	790.6	956.7	790.6	550.6	790.6	60- 70	936.0	6441	79.3,79.3
80	678.8	493.7	182.9	493.7	678.8	493.7	182.9	493.7	70- 80	648.7	7089	87.3,87.3
90	458.9	282.1	4.181	282.1	458.9	282.1	4.181	282.1	80- 90	384.2	7474	92,92
100	305.2	169.7	6.260	169.7	305.2	169.7	6.260	169.7	90-100	224.3	7698	94.8,94.8
110	218.0	123.6	8.101	123.6	218.0	123.6	8.101	123.6	100-110	146.3	7844	96.6,96.6
120	165.7	89.72	10.39	89.72	165.7	89.72	10.39	89.72	110-120	102.6	7947	97.9,97.9
130	124.9	65.55	12.79	65.55	124.9	65.55	12.79	65.55	120-130	71.02	8018	98.7,98.7
140	91.77	50.69	15.55	50.69	91.77	50.69	15.55	50.69	130-140	46.74	8065	99.3,99.3
150	65.43	40.02	18.02	40.02	65.43	40.02	18.02	40.02	140-150	29.47	8094	99.7,99.7
160	45.01	32.34	20.07	32.34	45.01	32.34	20.07	32.34	150-160	16.85	8111	99.9,99.9
170	29.90	25.30	21.29	25.30	29.90	25.30	21.29	25.30	160-170	8.141	8119	100,100
180	22.10	21.85	22.02	21.85	22.10	21.85	22.02	21.85	170-180	2.263	8121	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 3725.3 lm

%lum = 45.9%

%lamp = 45.9%

Conical surface Flux(120deg): 5504.6 lm

%lum = 67.8%

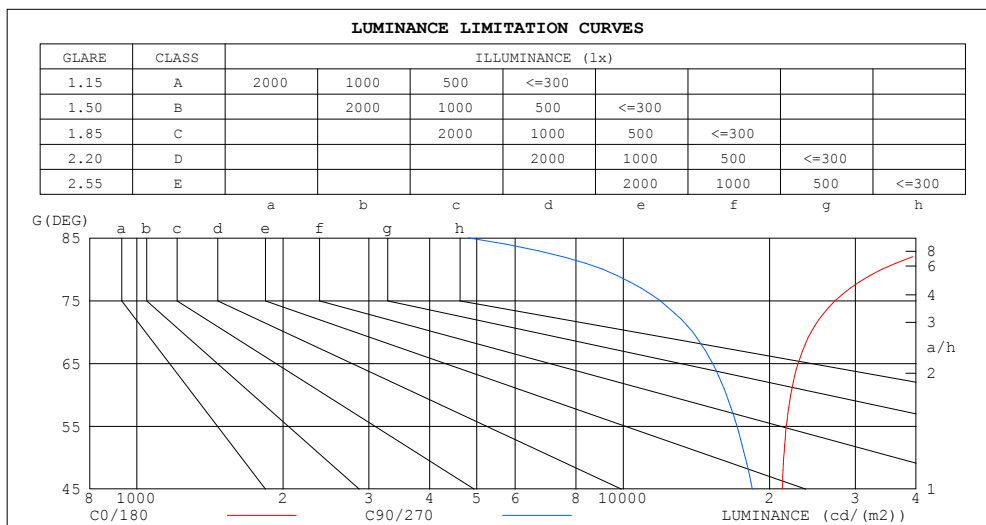
%lamp = 67.8%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:QC  
 Test Date:2020-04-30

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:53.0%  
 Test Distance:10.380m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:230.4V I:0.2232A P:49.88W PF:0.9697 Freq:49.99Hz Lamp Flux:8121.25x1 lm		
NAME: T07CP-CC-50-1500K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:



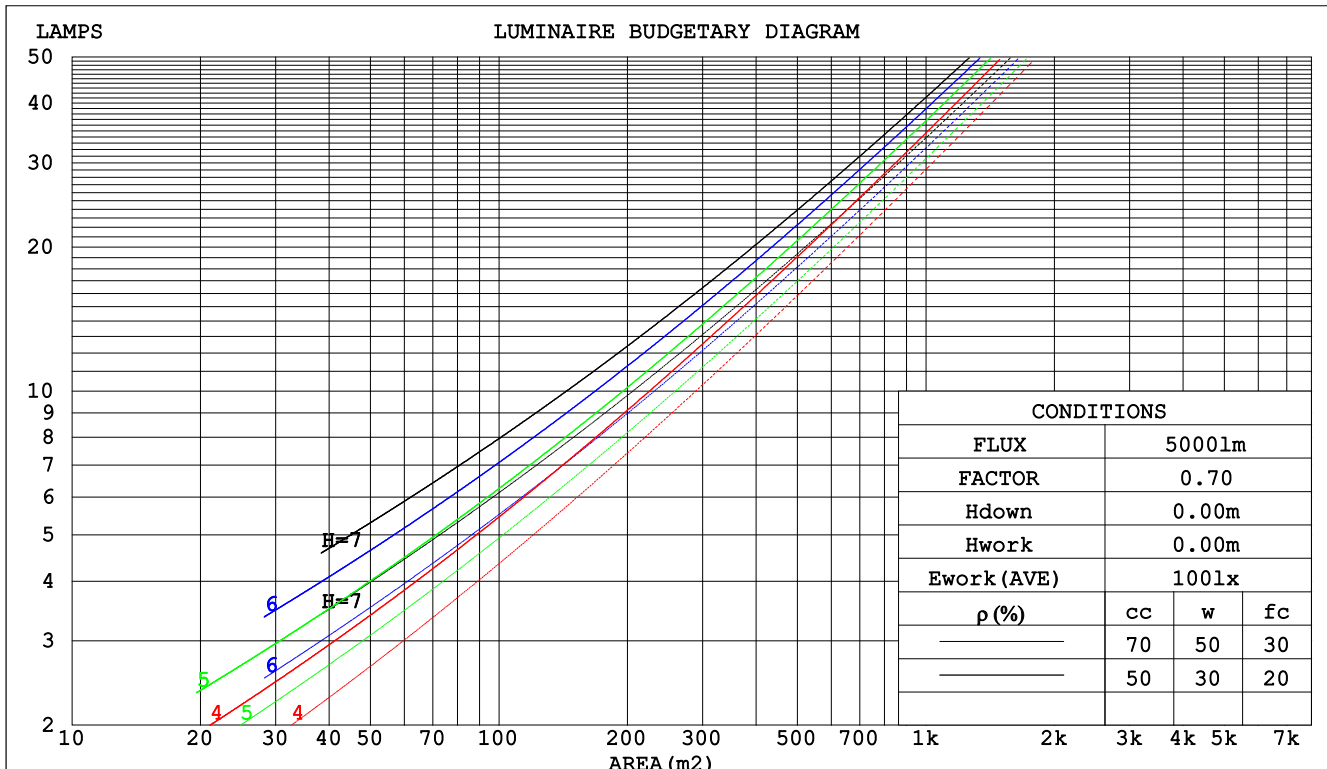
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: QC  
Test Date: 2020-04-30

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 53.0%  
Test Distance: 10.380m [K=1.0000]  
Remarks:

### CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.4V I:0.2232A P:49.88W PF:0.9697 Freq:49.99Hz Lamp Flux:8121.25x1 lm		
NAME: T07CP-CC-50-1500K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
p <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p <sub>fc</sub>	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.17	1.17	1.17	1.13	1.13	1.13	1.07	1.07	1.07	1.00	1.00	1.00	.95	.95	.95	.92
1.0	1.00	.95	.91	.97	.93	.89	.91	.88	.84	.86	.83	.80	.81	.79	.77	.74
2.0	.87	.79	.73	.84	.77	.72	.79	.74	.69	.75	.70	.66	.70	.67	.63	.61
3.0	.76	.67	.60	.74	.66	.59	.69	.63	.57	.65	.60	.55	.62	.57	.53	.51
4.0	.67	.58	.51	.65	.57	.50	.61	.54	.48	.58	.52	.47	.55	.50	.45	.43
5.0	.60	.50	.44	.58	.49	.43	.55	.47	.42	.52	.46	.41	.49	.44	.39	.37
6.0	.54	.44	.38	.52	.44	.37	.50	.42	.36	.47	.41	.35	.45	.39	.35	.32
7.0	.49	.40	.33	.47	.39	.33	.45	.38	.32	.43	.36	.31	.41	.35	.31	.28
8.0	.44	.36	.30	.43	.35	.29	.41	.34	.29	.39	.33	.28	.38	.32	.27	.25
9.0	.41	.32	.27	.40	.32	.26	.38	.31	.26	.36	.30	.25	.35	.29	.25	.23
10.0	.37	.29	.24	.37	.29	.24	.35	.28	.23	.34	.27	.23	.32	.27	.22	.21



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:QC  
 Test Date:2020-04-30

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:53.0%  
 Test Distance:10.380m [K=1.0000]  
 Remarks:

### WEC AND CCEC

Test:U:230.4V I:0.2232A P:49.88W PF:0.9697 Freq:49.99Hz Lamp Flux:8121.25x1 lm		
NAME: T07CP-CC-50-1500K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.345	.196	.062	.335	.191	.061	.317	.182	.058	.301	.174	.056	.286	.166	.053	
2.0	.310	.170	.052	.301	.166	.051	.285	.159	.049	.271	.152	.048	.257	.145	.046	
3.0	.281	.150	.045	.273	.146	.044	.259	.140	.043	.246	.135	.041	.233	.129	.040	
4.0	.256	.133	.039	.249	.130	.039	.236	.125	.037	.224	.120	.036	.213	.116	.035	
5.0	.235	.120	.035	.229	.117	.034	.217	.113	.033	.206	.109	.032	.196	.105	.031	
6.0	.217	.109	.031	.211	.107	.031	.201	.103	.030	.191	.099	.029	.182	.096	.028	
7.0	.201	.099	.028	.196	.098	.028	.186	.094	.027	.177	.091	.026	.169	.088	.026	
8.0	.187	.091	.026	.182	.090	.025	.174	.087	.025	.166	.084	.024	.158	.081	.024	
9.0	.175	.085	.024	.171	.083	.023	.163	.080	.023	.155	.078	.022	.148	.075	.022	
10.0	.164	.079	.022	.160	.077	.022	.153	.075	.021	.146	.073	.021	.140	.070	.020	

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.251	.251	.251	.215	.215	.215	.147	.147	.147	.084	.084	.084	.027	.027	.027	
1.0	.244	.217	.193	.209	.186	.166	.143	.128	.115	.082	.074	.067	.026	.024	.022	
2.0	.236	.193	.157	.202	.167	.136	.139	.115	.095	.080	.067	.056	.026	.022	.018	
3.0	.229	.176	.135	.196	.152	.117	.135	.106	.082	.078	.062	.048	.025	.020	.016	
4.0	.221	.163	.120	.189	.141	.104	.130	.098	.073	.075	.058	.043	.024	.019	.014	
5.0	.213	.153	.109	.183	.133	.095	.126	.093	.067	.073	.054	.040	.024	.018	.013	
6.0	.206	.145	.101	.177	.126	.088	.122	.088	.062	.071	.052	.037	.023	.017	.012	
7.0	.199	.138	.096	.171	.120	.083	.118	.084	.059	.069	.050	.035	.022	.016	.012	
8.0	.192	.133	.091	.166	.115	.080	.115	.081	.057	.067	.048	.034	.022	.016	.011	
9.0	.186	.128	.088	.160	.111	.077	.111	.078	.055	.065	.046	.033	.021	.015	.011	
10.0	.181	.123	.086	.156	.107	.075	.108	.075	.053	.063	.045	.032	.020	.015	.010	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:QC  
 Test Date:2020-04-30

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:53.0%  
 Test Distance:10.380m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.4V I:0.2232A P:49.88W PF:0.9697 Freq:49.99Hz Lamp Flux:8121.25x1 lm											
NAME: T07CP-CC-50-1500K-40H					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.: ERVAN					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		16.0	17.4	16.3	17.7	18.1	14.7	16.2	15.1	16.5	16.9
	3H	18.0	19.4	18.4	19.7	20.1	16.0	17.4	16.4	17.7	18.1
	4H	19.1	20.4	19.5	20.8	21.2	16.5	17.8	16.9	18.2	18.6
	6H	20.2	21.4	20.7	21.9	22.3	16.8	18.0	17.2	18.4	18.8
	8H	20.9	22.0	21.3	22.5	22.9	16.8	18.0	17.3	18.4	18.9
	12H	21.6	22.7	22.0	23.1	23.6	16.8	17.9	17.3	18.4	18.8
4H	2H	16.5	17.8	16.9	18.1	18.6	15.5	16.8	16.0	17.2	17.6
	3H	18.8	19.9	19.3	20.3	20.8	17.1	18.2	17.6	18.6	19.1
	4H	20.0	21.1	20.5	21.5	22.0	17.7	18.7	18.2	19.2	19.7
	6H	21.4	22.3	21.9	22.8	23.3	18.1	19.0	18.6	19.5	20.1
	8H	22.1	23.0	22.7	23.5	24.1	18.2	19.1	18.7	19.6	20.1
	12H	23.0	23.8	23.5	24.3	24.9	18.3	19.0	18.8	19.6	20.1
8H	4H	20.3	21.2	20.8	21.7	22.2	18.3	19.2	18.9	19.7	20.3
	6H	21.9	22.6	22.5	23.2	23.8	19.0	19.7	19.6	20.3	20.9
	8H	22.9	23.5	23.4	24.1	24.7	19.3	19.9	19.8	20.5	21.1
	12H	24.0	24.5	24.6	25.1	25.8	19.4	20.0	20.0	20.5	21.2
12H	4H	20.3	21.1	20.9	21.6	22.2	18.5	19.3	19.1	19.8	20.4
	6H	22.0	22.7	22.6	23.2	23.8	19.3	20.0	19.9	20.5	21.2
	8H	23.0	23.6	23.6	24.2	24.8	19.7	20.3	20.3	20.9	21.5
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.2 / - 0.3					+ 0.1 / - 0.3					

CIE Pub.117, 8121 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 7.3$ )

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QC  
Test Date:2020-04-30

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:53.0%  
Test Distance:10.380m [K=1.0000]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:230.4V I:0.2232A P:49.88W PF:0.9697 Freq:49.99Hz Lamp Flux:8121.25x1 lm		
NAME: T07CP-CC-50-1500K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	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) $k(RI) \times RCR = 5$									
$k = 0.60$	54	42	35	53	41	34	51	41	34	28
0.80	63	51	43	62	50	43	60	49	42	35
1.00	71	59	52	70	59	51	67	60	50	43
1.25	78	67	59	76	66	58	73	64	57	49
1.50	83	72	65	81	71	64	77	69	62	54
2.00	90	80	73	88	79	72	83	76	70	61
2.50	94	85	78	92	84	77	87	80	75	64
3.00	98	90	83	95	88	82	90	84	79	68
4.00	102	95	90	99	93	88	93	89	84	73
5.00	105	99	94	102	96	92	96	92	88	76
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended				SHRNM = 1.25		

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: QC  
Test Date: 2020-04-30

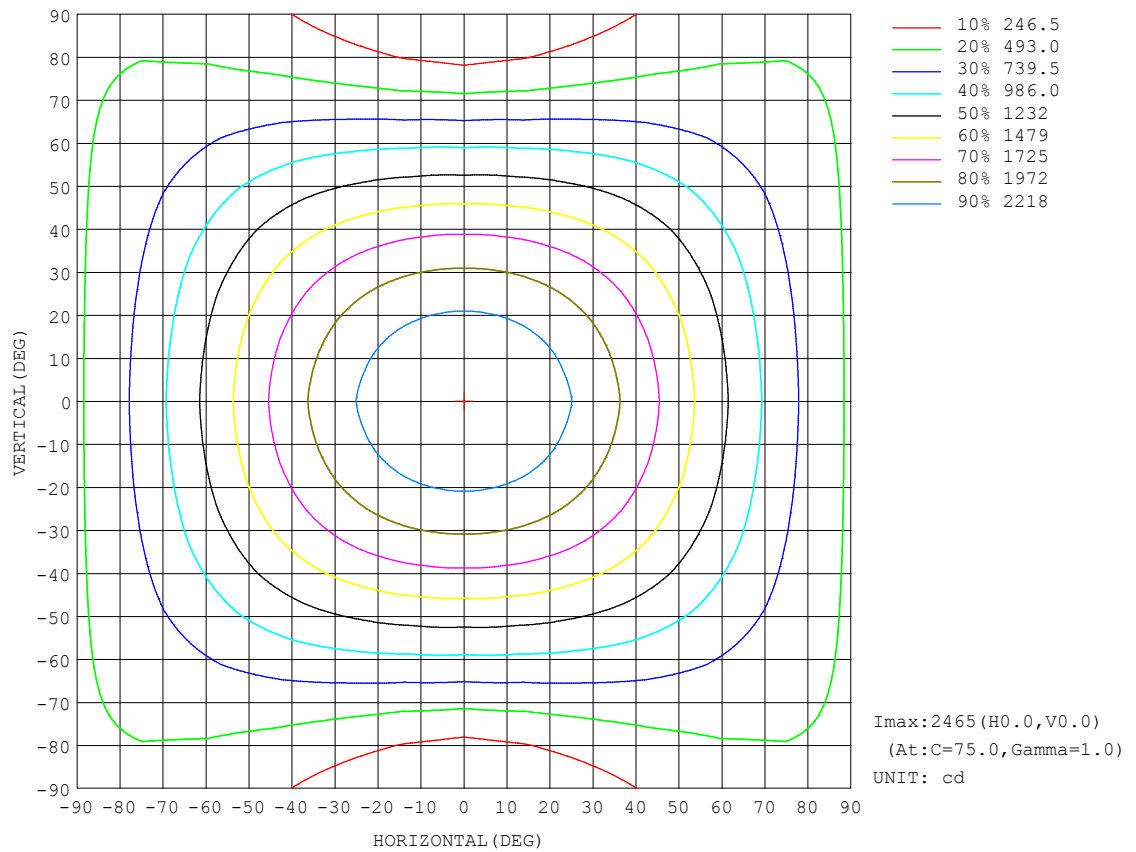
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

```

## ISOCANDELA DIAGRAM

Test:U:230.4V I:0.2232A P:49.88W PF:0.9697 Freq:49.99Hz Lamp Flux:8121.25x1 lm		
NAME: T07CP-CC-50-1500K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:



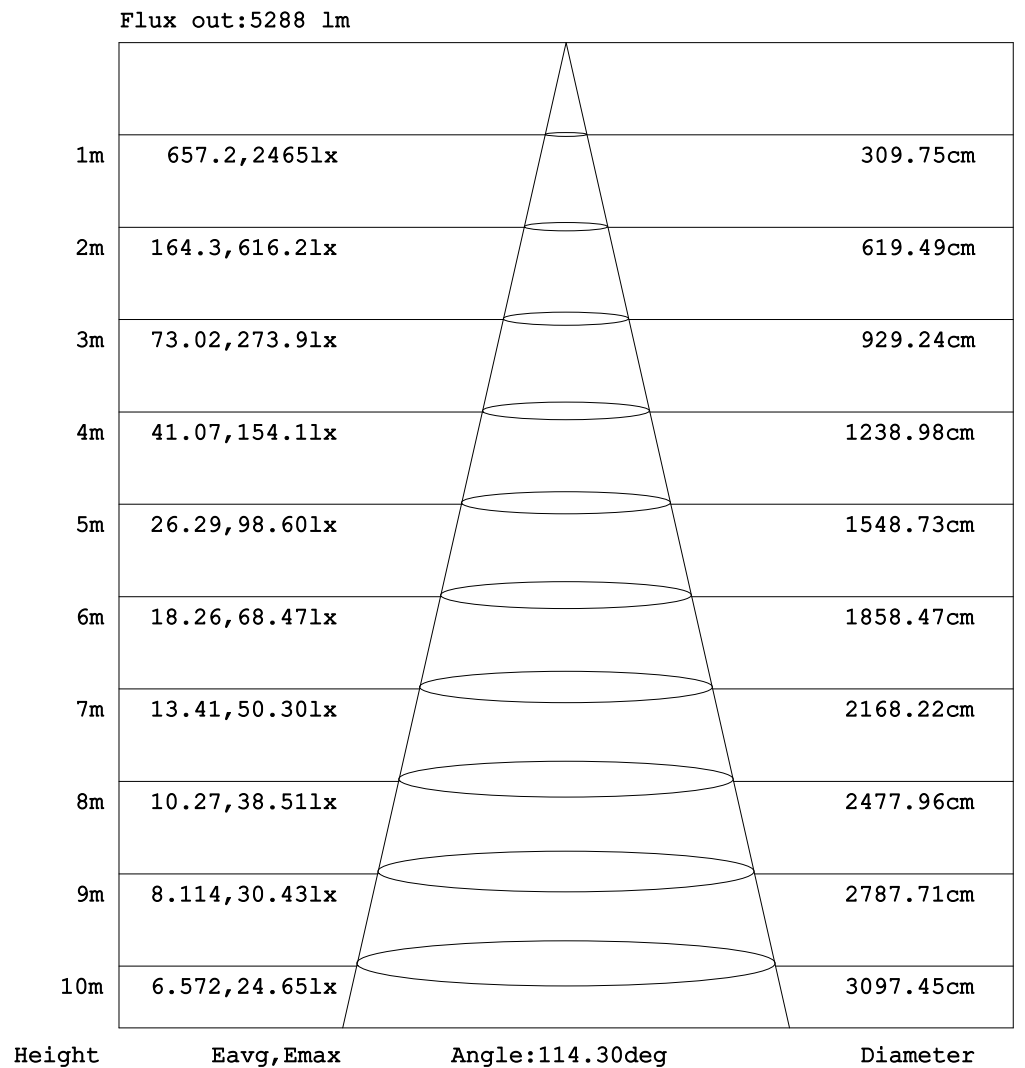
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QC  
Test Date:2020-04-30

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:53.0%  
Test Distance:10.380m [K=1.0000]  
Remarks:



## AAI Figure

Test:U:230.4V I:0.2232A P:49.88W PF:0.9697 Freq:49.99Hz Lamp Flux:8121.25x1 lm		
NAME: T07CP-CC-50-1500K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:



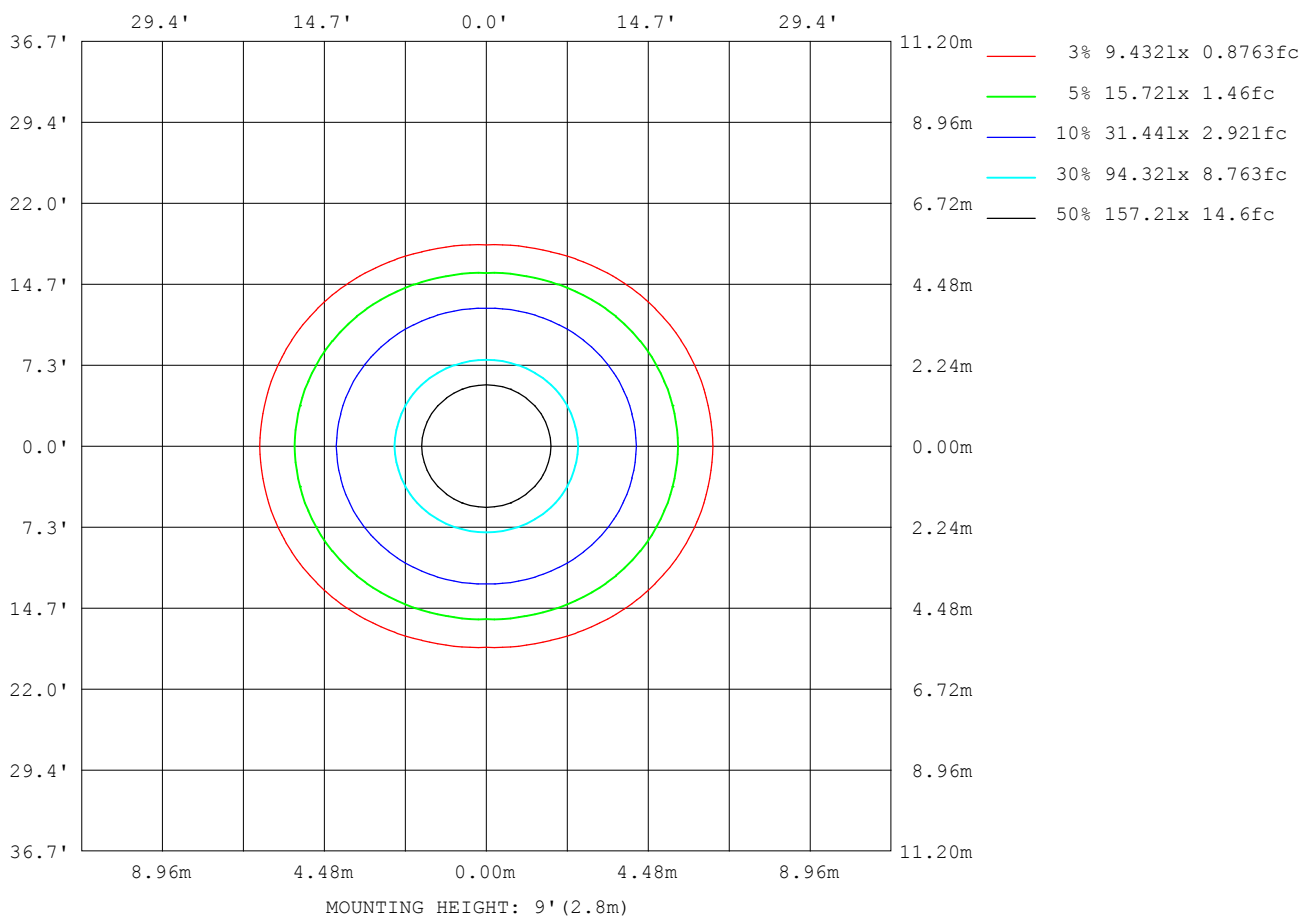
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: QC  
 Test Date: 2020-04-30

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity: 53.0%  
 Test Distance: 10.380m [K=1.0000]  
 Remarks:

# ISOLUX DIAGRAM

Test:U:230.4V I:0.2232A P:49.88W PF:0.9697 Freq:49.99Hz Lamp Flux:8121.25x1 lm		
NAME: T07CP-CC-50-1500K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QC  
Test Date:2020-04-30

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:53.0%  
Test Distance:10.380m [K=1.0000]  
Remarks:

## LED Avg.L Report

Test:U:230.4V I:0.2232A P:49.88W PF:0.9697 Freq:49.99Hz Lamp Flux:8121.25x1 lm		
NAME: T07CP-CC-50-1500K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

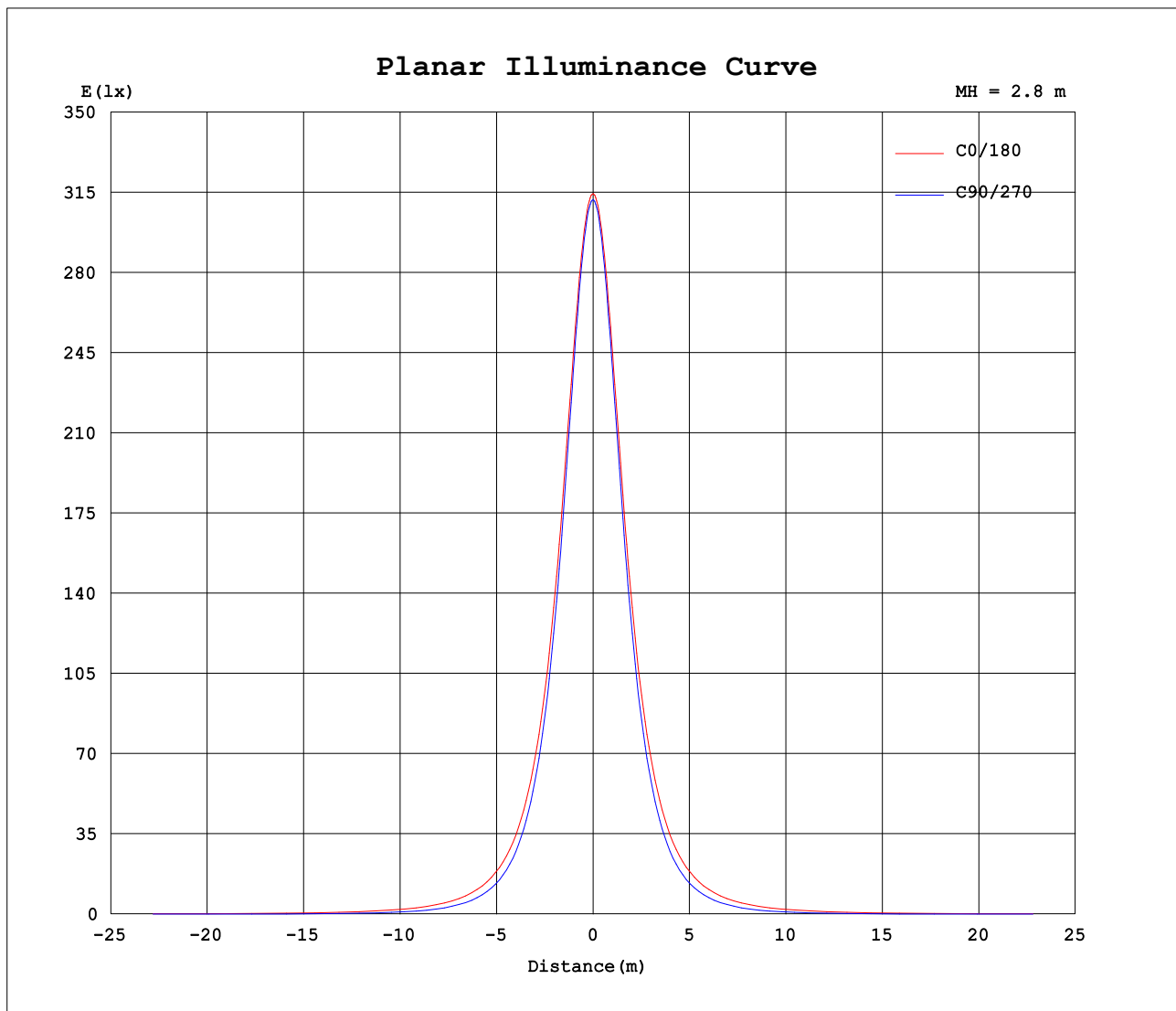
AvgL	cd/m2
L_0~180 (65) av	22717
L_0~180 (75) av	27073
L_0~180 (85) av	55570
L_90~270 (65) av	15283
L_90~270 (75) av	11918
L_90~270 (85) av	4810
L_45 (65) av	19577
L_45 (75) av	21151
L_45 (85) av	37139

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:QC  
 Test Date:2020-04-30

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:53.0%  
 Test Distance:10.380m [K=1.0000]  
 Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: QC  
Test Date: 2020-04-30

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 53.0%  
Test Distance: 10.380m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.4V I:0.2232A P:49.88W PF:0.9697 Freq:49.99Hz Lamp Flux:8121.25x1 lm		
NAME: T07CP-CC-50-1500K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	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	2446	2446	2446	2446	2446	2446	2446	2446	2446	2446	2446	2446	2446	2446	2446	2446	2446	2446	2446
5	2436	2437	2435	2435	2434	2434	2433	2434	2434	2435	2435	2437	2436	2437	2435	2435	2434	2434	2433
10	2406	2407	2404	2401	2397	2395	2392	2395	2397	2401	2404	2407	2406	2407	2404	2401	2397	2395	2392
15	2356	2357	2351	2344	2336	2331	2327	2331	2336	2344	2351	2357	2356	2357	2351	2344	2336	2331	2327
20	2288	2288	2279	2267	2253	2243	2239	2243	2253	2267	2279	2288	2288	2288	2279	2267	2253	2243	2239
25	2205	2202	2189	2170	2149	2135	2129	2135	2149	2170	2189	2202	2205	2202	2189	2170	2149	2135	2129
30	2104	2100	2081	2056	2029	2008	1998	2008	2029	2056	2081	2100	2104	2100	2081	2056	2029	2008	1998
35	1989	1983	1960	1927	1890	1861	1848	1861	1890	1927	1960	1983	1989	1983	1960	1927	1890	1861	1848
40	1863	1855	1826	1785	1737	1700	1685	1700	1737	1785	1826	1855	1863	1855	1826	1785	1737	1700	1685
45	1726	1716	1682	1630	1573	1529	1511	1529	1573	1630	1682	1716	1726	1716	1682	1630	1573	1529	1511
50	1580	1568	1529	1468	1401	1350	1327	1350	1401	1468	1529	1568	1580	1568	1529	1468	1401	1350	1327
55	1427	1414	1369	1300	1223	1164	1139	1164	1223	1300	1369	1414	1427	1414	1369	1300	1223	1164	1139
60	1270	1255	1205	1129	1044	974	944	974	1044	1129	1205	1255	1270	1255	1205	1129	1044	974	944
65	1111	1095	1040	958	863	782	748	782	863	958	1040	1095	1111	1095	1040	958	863	782	748
70	957	938	879	791	687	593	551	593	687	791	879	938	957	938	879	791	687	593	551
75	811	791	728	634	521	411	357	411	521	634	728	791	811	791	728	634	521	411	357
80	679	657	592	494	373	250	183	250	373	494	592	657	679	657	592	494	373	250	183
85	561	539	474	375	255	131	48.5	131	255	375	474	539	561	539	474	375	255	131	48.5
90	459	437	375	282	171	63.5	4.18	63.5	171	282	375	437	459	437	375	282	171	63.5	4.18
95	373	353	297	215	120	38.9	5.05	38.9	120	215	297	353	373	353	297	215	120	38.9	5.05
100	305	288	240	170	94.3	30.8	6.26	30.8	94.3	170	240	288	305	288	240	170	94.3	30.8	6.26
105	255	240	200	142	79.9	26.7	7.08	26.7	79.9	142	200	240	255	240	200	142	79.9	26.7	7.08
110	218	206	172	124	68.7	24.3	8.10	24.3	68.7	124	172	206	218	206	172	124	68.7	24.3	8.10
115	190	180	150	107	57.8	22.2	9.24	22.2	57.8	107	150	180	190	180	150	107	57.8	22.2	9.24
120	166	157	132	89.7	50.6	21.5	10.4	21.5	50.6	89.7	132	157	166	157	132	89.7	50.6	21.5	10.4
125	144	137	115	77.0	45.0	21.2	11.6	21.2	45.0	77.0	115	137	144	137	115	77.0	45.0	21.2	11.6
130	125	119	95.8	65.6	40.7	21.2	12.8	21.2	40.7	65.6	95.8	119	125	119	95.8	65.6	40.7	21.2	12.8
135	107	102	79.9	57.8	37.0	21.4	14.2	21.4	37.0	57.8	79.9	102	107	102	79.9	57.8	37.0	21.4	14.2
140	91.8	87.5	68.0	50.7	34.4	21.9	15.5	21.9	34.4	50.7	68.0	87.5	91.8	87.5	68.0	50.7	34.4	21.9	15.5
145	77.7	73.7	58.9	44.6	32.6	22.2	16.8	22.2	32.6	44.6	58.9	73.7	77.7	73.7	58.9	44.6	32.6	22.2	16.8
150	65.4	59.6	50.5	40.0	30.9	22.4	18.0	22.4	30.9	40.0	50.5	59.6	65.4	59.6	50.5	40.0	30.9	22.4	18.0
155	54.6	48.2	42.9	36.0	29.1	22.6	19.1	22.6	29.1	36.0	42.9	48.2	54.6	48.2	42.9	36.0	29.1	22.6	19.1
160	45.0	39.8	36.6	32.3	27.3	22.6	20.1	22.6	27.3	32.3	36.6	39.8	45.0	39.8	36.6	32.3	27.3	22.6	20.1
165	36.8	33.1	31.4	28.7	25.3	22.3	20.8	22.3	25.3	28.7	31.4	33.1	36.8	33.1	31.4	28.7	25.3	22.3	20.8
170	29.9	27.8	26.9	25.3	23.6	22.1	21.3	22.1	23.6	25.3	26.9	27.8	29.9	27.8	26.9	25.3	23.6	22.1	21.3
175	24.0	23.6	23.5	22.9	22.5	22.2	21.8	22.2	22.5	22.9	23.5	23.6	24.0	23.6	23.5	22.9	22.5	22.2	21.8
180	22.1	22.1	22.1	21.8	22.1	22.2	22.0	22.2	22.1	21.8	22.1	22.1	22.1	22.1	22.1	21.8	22.1	22.2	22.0

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QC  
Test Date:2020-04-30

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:53.0%  
Test Distance:10.380m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.4V I:0.2232A P:49.88W PF:0.9697 Freq:49.99Hz Lamp Flux:8121.25x1 lm		
NAME: T07CP-CC-50-1500K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345													
0	2446	2446	2446	2446	2446													
5	2434	2434	2435	2435	2437													
10	2395	2397	2401	2404	2407													
15	2331	2336	2344	2351	2357													
20	2243	2253	2267	2279	2288													
25	2135	2149	2170	2189	2202													
30	2008	2029	2056	2081	2100													
35	1861	1890	1927	1960	1983													
40	1700	1737	1785	1826	1855													
45	1529	1573	1630	1682	1716													
50	1350	1401	1468	1529	1568													
55	1164	1223	1300	1369	1414													
60	974	1044	1129	1205	1255													
65	782	863	958	1040	1095													
70	593	687	791	879	938													
75	411	521	634	728	791													
80	250	373	494	592	657													
85	131	255	375	474	539													
90	63.5	171	282	375	437													
95	38.9	120	215	297	353													
100	30.8	94.3	170	240	288													
105	26.7	79.9	142	200	240													
110	24.3	68.7	124	172	206													
115	22.2	57.8	107	150	180													
120	21.5	50.6	89.7	132	157													
125	21.2	45.0	77.0	115	137													
130	21.2	40.7	65.6	95.8	119													
135	21.4	37.0	57.8	79.9	102													
140	21.9	34.4	50.7	68.0	87.5													
145	22.2	32.6	44.6	58.9	73.7													
150	22.4	30.9	40.0	50.5	59.6													
155	22.6	29.1	36.0	42.9	48.2													
160	22.6	27.3	32.3	36.6	39.8													
165	22.3	25.3	28.7	31.4	33.1													
170	22.1	23.6	25.3	26.9	27.8													
175	22.2	22.5	22.9	23.5	23.6													
180	22.2	22.1	21.8	22.1	22.1													

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:QC  
 Test Date:2020-04-30

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:53.0%  
 Test Distance:10.380m [K=1.0000]  
 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	2446	2446	2446	2446	2446	2446	2446	2446	2446	2446
3.0	2442	2443	2442	2442	2442	2442	2441	2442	2442	2442
6.0	2432	2432	2431	2430	2429	2428	2427	2428	2429	2430
9.0	2413	2415	2412	2409	2406	2405	2403	2405	2406	2409
12.0	2388	2389	2385	2381	2376	2372	2369	2372	2376	2381
15.0	2356	2357	2351	2344	2336	2331	2327	2331	2336	2344
18.0	2318	2318	2310	2300	2289	2281	2277	2281	2289	2300
21.0	2274	2272	2262	2248	2233	2223	2219	2223	2233	2248
24.0	2222	2221	2208	2190	2172	2158	2152	2158	2172	2190
27.0	2166	2163	2147	2126	2103	2086	2078	2086	2103	2126
30.0	2104	2100	2081	2056	2029	2008	1998	2008	2029	2056
33.0	2037	2032	2010	1980	1948	1921	1910	1921	1948	1980
36.0	1965	1958	1934	1900	1860	1829	1816	1829	1860	1900
39.0	1889	1882	1854	1814	1768	1733	1718	1733	1768	1814
42.0	1810	1801	1770	1724	1672	1632	1616	1632	1672	1724
45.0	1726	1716	1682	1630	1573	1529	1511	1529	1573	1630
48.0	1639	1628	1591	1534	1470	1422	1402	1422	1470	1534
51.0	1550	1538	1498	1435	1366	1313	1290	1313	1366	1435
54.0	1458	1445	1401	1334	1260	1201	1177	1201	1260	1334
57.0	1365	1351	1304	1232	1152	1088	1062	1088	1152	1232
60.0	1270	1255	1205	1129	1044	973.7	944.4	973.7	1044	1129
63.0	1175	1159	1106	1026	935.1	859.0	827.0	859.0	935.1	1026
66.0	1080	1063	1008	923.7	827.6	744.1	708.3	744.1	827.6	923.7
69.0	986.7	968.8	911.0	823.4	721.4	630.3	589.6	630.3	721.4	823.4
72.0	897.1	877.5	817.2	726.1	618.4	518.5	472.0	518.5	618.4	726.1
75.0	811.1	790.7	728.1	633.7	520.5	410.8	357.1	410.8	520.5	633.7
78.0	730.1	708.3	644.5	547.1	429.8	310.2	248.9	310.2	429.8	547.1
81.0	653.7	631.5	566.9	468.3	347.0	222.2	151.5	222.2	347.0	468.3
84.0	583.1	560.9	496.2	396.2	276.4	151.5	69.72	151.5	276.4	396.2
87.0	517.9	496.1	432.5	334.6	217.9	97.82	17.13	97.82	217.9	334.6
90.0	458.9	436.9	374.6	282.1	171.1	63.50	4.181	63.50	171.1	282.1
93.0	405.2	383.8	325.5	238.6	137.0	45.18	4.570	45.18	137.0	238.6
96.0	357.8	338.6	284.0	204.1	113.5	36.78	5.258	36.78	113.5	204.1
99.0	317.4	299.8	249.6	177.2	98.16	32.11	6.038	32.11	98.16	177.2
102.0	283.1	267.2	221.8	157.1	87.88	28.82	6.630	28.82	87.88	157.1
105.0	254.6	240.3	199.6	142.4	79.91	26.68	7.081	26.68	79.91	142.4
108.0	231.2	218.6	181.9	130.6	73.01	25.34	7.706	25.34	73.01	130.6
111.0	212.1	200.7	167.3	120.3	65.86	23.75	8.299	23.75	65.86	120.3
114.0	194.8	184.6	154.4	110.6	59.58	22.54	9.005	22.54	59.58	110.6
117.0	179.7	170.2	142.6	99.43	54.53	21.82	9.680	21.82	54.53	99.43
120.0	165.7	157.0	131.6	89.72	50.63	21.54	10.39	21.54	50.63	89.72
123.0	152.5	144.6	121.4	81.63	47.07	21.31	11.12	21.31	47.07	81.63
126.0	140.2	133.0	111.4	74.72	44.00	21.18	11.84	21.18	44.00	74.72
129.0	128.6	122.1	99.80	67.82	41.51	21.15	12.54	21.15	41.51	67.82
132.0	117.7	111.8	88.81	62.22	39.06	21.23	13.32	21.23	39.06	62.22
135.0	107.4	102.2	79.90	57.76	36.98	21.38	14.17	21.38	36.98	57.76
138.0	97.82	93.18	72.52	53.41	35.27	21.72	15.01	21.72	35.27	53.41
141.0	88.86	84.81	66.04	49.32	34.02	21.96	15.81	21.96	34.02	49.32
144.0	80.42	76.64	60.58	45.68	32.93	22.17	16.56	22.17	32.93	45.68
147.0	72.65	68.08	55.63	42.63	31.89	22.33	17.44	22.33	31.89	42.63
150.0	65.43	59.59	50.50	40.02	30.89	22.44	18.02	22.44	30.89	40.02
153.0	58.77	52.37	45.78	37.56	29.86	22.53	18.68	22.53	29.86	37.56
156.0	52.61	46.42	41.63	35.32	28.77	22.59	19.32	22.59	28.77	35.32
159.0	46.83	41.36	37.83	33.10	27.65	22.58	19.90	22.58	27.65	33.10
162.0	41.54	36.88	34.36	30.86	26.48	22.50	20.38	22.50	26.48	30.86
165.0	36.76	33.06	31.41	28.68	25.30	22.33	20.76	22.33	25.30	28.68
168.0	32.42	29.71	28.70	26.58	24.29	22.16	21.09	22.16	24.29	26.58
171.0	28.75	26.76	26.11	24.75	23.37	22.09	21.42	22.09	23.37	24.75
174.0	24.99	24.26	24.09	23.30	22.68	22.16	21.74	22.16	22.68	23.30
177.0	22.65	22.61	22.61	22.15	22.12	22.15	21.90	22.15	22.12	22.15
180.0	22.10	22.13	22.12	21.85	22.06	22.24	22.02	22.24	22.06	21.85
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	2446	2446	2446	2446	2446	2446	2446	2446	2446	2446
3.0	2442	2443	2442	2443	2442	2442	2442	2442	2441	2442
6.0	2431	2432	2432	2432	2431	2430	2429	2428	2427	2428
9.0	2412	2415	2413	2415	2412	2409	2406	2405	2403	2405
12.0	2385	2389	2388	2389	2385	2381	2376	2372	2369	2372
15.0	2351	2357	2356	2357	2351	2344	2336	2331	2327	2331
18.0	2310	2318	2318	2318	2310	2300	2289	2281	2277	2281
21.0	2262	2272	2274	2272	2262	2248	2233	2223	2219	2223
24.0	2208	2221	2222	2221	2208	2190	2172	2158	2152	2158
27.0	2147	2163	2166	2163	2147	2126	2103	2086	2078	2086
30.0	2081	2100	2104	2100	2081	2056	2029	2008	1998	2008

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: QC  
 Test Date: 2020-04-30

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity: 53.0%  
 Test Distance: 10.380m [K=1.0000]  
 Remarks:

## Photometric Data Table [cd]

33.0	2010	2032	2037	2032	2010	1980	1948	1921	1910	1921
36.0	1934	1958	1965	1958	1934	1900	1860	1829	1816	1829
39.0	1854	1882	1889	1882	1854	1814	1768	1733	1718	1733
42.0	1770	1801	1810	1801	1770	1724	1672	1632	1616	1632
45.0	1682	1716	1726	1716	1682	1630	1573	1529	1511	1529
48.0	1591	1628	1639	1628	1591	1534	1470	1422	1402	1422
51.0	1498	1538	1550	1538	1498	1435	1366	1313	1290	1313
54.0	1401	1445	1458	1445	1401	1334	1260	1201	1177	1201
57.0	1304	1351	1365	1351	1304	1232	1152	1088	1062	1088
60.0	1205	1255	1270	1255	1205	1129	1044	973.7	944.4	973.7
63.0	1106	1159	1175	1159	1106	1026	935.1	859.0	827.0	859.0
66.0	1008	1063	1080	1063	1008	923.7	827.6	744.1	708.3	744.1
69.0	911.0	968.8	986.7	968.8	911.0	823.4	721.4	630.3	589.6	630.3
72.0	817.2	877.5	897.1	877.5	817.2	726.1	618.4	518.5	472.0	518.5
75.0	728.1	790.7	811.1	790.7	728.1	633.7	520.5	410.8	357.1	410.8
78.0	644.5	708.3	730.1	708.3	644.5	547.1	429.8	310.2	248.9	310.2
81.0	566.9	631.5	653.7	631.5	566.9	468.3	347.0	222.2	151.5	222.2
84.0	496.2	560.9	583.1	560.9	496.2	396.2	276.4	151.5	69.72	151.5
87.0	432.5	496.1	517.9	496.1	432.5	334.6	217.9	97.82	17.13	97.82
90.0	374.6	436.9	458.9	436.9	374.6	282.1	171.1	63.50	4.181	63.50
93.0	325.5	383.8	405.2	383.8	325.5	238.6	137.0	45.18	4.570	45.18
96.0	284.0	338.6	357.8	338.6	284.0	204.1	113.5	36.78	5.258	36.78
99.0	249.6	299.8	317.4	299.8	249.6	177.2	98.16	32.11	6.038	32.11
102.0	221.8	267.2	283.1	267.2	221.8	157.1	87.88	28.82	6.630	28.82
105.0	199.6	240.3	254.6	240.3	199.6	142.4	79.91	26.68	7.081	26.68
108.0	181.9	218.6	231.2	218.6	181.9	130.6	73.01	25.34	7.706	25.34
111.0	167.3	200.7	212.1	200.7	167.3	120.3	65.86	23.75	8.299	23.75
114.0	154.4	184.6	194.8	184.6	154.4	110.6	59.58	22.54	9.005	22.54
117.0	142.6	170.2	179.7	170.2	142.6	99.43	54.53	21.82	9.680	21.82
120.0	131.6	157.0	165.7	157.0	131.6	89.72	50.63	21.54	10.39	21.54
123.0	121.4	144.6	152.5	144.6	121.4	81.63	47.07	21.31	11.12	21.31
126.0	111.4	133.0	140.2	133.0	111.4	74.72	44.00	21.18	11.84	21.18
129.0	99.80	122.1	128.6	122.1	99.80	67.82	41.51	21.15	12.54	21.15
132.0	88.81	111.8	117.7	111.8	88.81	62.22	39.06	21.23	13.32	21.23
135.0	79.90	102.2	107.4	102.2	79.90	57.76	36.98	21.38	14.17	21.38
138.0	72.52	93.18	97.82	93.18	72.52	53.41	35.27	21.72	15.01	21.72
141.0	66.04	84.81	88.86	84.81	66.04	49.32	34.02	21.96	15.81	21.96
144.0	60.58	76.64	80.42	76.64	60.58	45.68	32.93	22.17	16.56	22.17
147.0	55.63	68.08	72.65	68.08	55.63	42.63	31.89	22.33	17.44	22.33
150.0	50.50	59.59	65.43	59.59	50.50	40.02	30.89	22.44	18.02	22.44
153.0	45.78	52.37	58.77	52.37	45.78	37.56	29.86	22.53	18.68	22.53
156.0	41.63	46.42	52.61	46.42	41.63	35.32	28.77	22.59	19.32	22.59
159.0	37.83	41.36	46.83	41.36	37.83	33.10	27.65	22.58	19.90	22.58
162.0	34.36	36.88	41.54	36.88	34.36	30.86	26.48	22.50	20.38	22.50
165.0	31.41	33.06	36.76	33.06	31.41	28.68	25.30	22.33	20.76	22.33
168.0	28.70	29.71	32.42	29.71	28.70	26.58	24.29	22.16	21.09	22.16
171.0	26.11	26.76	28.75	26.76	26.11	24.75	23.37	22.09	21.42	22.09
174.0	24.09	24.26	24.99	24.26	24.09	23.30	22.68	22.16	21.74	22.16
177.0	22.61	22.61	22.65	22.61	22.61	22.15	22.12	22.15	21.90	22.15
180.0	22.12	22.13	22.10	22.13	22.12	21.85	22.06	22.24	22.02	22.24
G/C	300.0	315.0	330.0	345.0						
0.0	2446	2446	2446	2446						
3.0	2442	2442	2442	2443						
6.0	2429	2430	2431	2432						
9.0	2406	2409	2412	2415						
12.0	2376	2381	2385	2389						
15.0	2336	2344	2351	2357						
18.0	2289	2300	2310	2318						
21.0	2233	2248	2262	2272						
24.0	2172	2190	2208	2221						
27.0	2103	2126	2147	2163						
30.0	2029	2056	2081	2100						
33.0	1948	1980	2010	2032						
36.0	1860	1900	1934	1958						
39.0	1768	1814	1854	1882						
42.0	1672	1724	1770	1801						
45.0	1573	1630	1682	1716						
48.0	1470	1534	1591	1628						
51.0	1366	1435	1498	1538						
54.0	1260	1334	1401	1445						
57.0	1152	1232	1304	1351						
60.0	1044	1129	1205	1255						
63.0	935.1	1026	1106	1159						
66.0	827.6	923.7	1008	1063						

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: QC  
 Test Date: 2020-04-30

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity: 53.0%  
 Test Distance: 10.380m [K=1.0000]  
 Remarks:



## Photometric Data Table [cd]

69.0	721.4	823.4	911.0	968.8
72.0	618.4	726.1	817.2	877.5
75.0	520.5	633.7	728.1	790.7
78.0	429.8	547.1	644.5	708.3
81.0	347.0	468.3	566.9	631.5
84.0	276.4	396.2	496.2	560.9
87.0	217.9	334.6	432.5	496.1
90.0	171.1	282.1	374.6	436.9
93.0	137.0	238.6	325.5	383.8
96.0	113.5	204.1	284.0	338.6
99.0	98.16	177.2	249.6	299.8
102.0	87.88	157.1	221.8	267.2
105.0	79.91	142.4	199.6	240.3
108.0	73.01	130.6	181.9	218.6
111.0	65.86	120.3	167.3	200.7
114.0	59.58	110.6	154.4	184.6
117.0	54.53	99.43	142.6	170.2
120.0	50.63	89.72	131.6	157.0
123.0	47.07	81.63	121.4	144.6
126.0	44.00	74.72	111.4	133.0
129.0	41.51	67.82	99.80	122.1
132.0	39.06	62.22	88.81	111.8
135.0	36.98	57.76	79.90	102.2
138.0	35.27	53.41	72.52	93.18
141.0	34.02	49.32	66.04	84.81
144.0	32.93	45.68	60.58	76.64
147.0	31.89	42.63	55.63	68.08
150.0	30.89	40.02	50.50	59.59
153.0	29.86	37.56	45.78	52.37
156.0	28.77	35.32	41.63	46.42
159.0	27.65	33.10	37.83	41.36
162.0	26.48	30.86	34.36	36.88
165.0	25.30	28.68	31.41	33.06
168.0	24.29	26.58	28.70	29.71
171.0	23.37	24.75	26.11	26.76
174.0	22.68	23.30	24.09	24.26
177.0	22.12	22.15	22.61	22.61
180.0	22.06	21.85	22.12	22.13

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: QC  
Test Date: 2020-04-30

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 53.0%  
Test Distance: 10.380m [K=1.0000]  
Remarks: