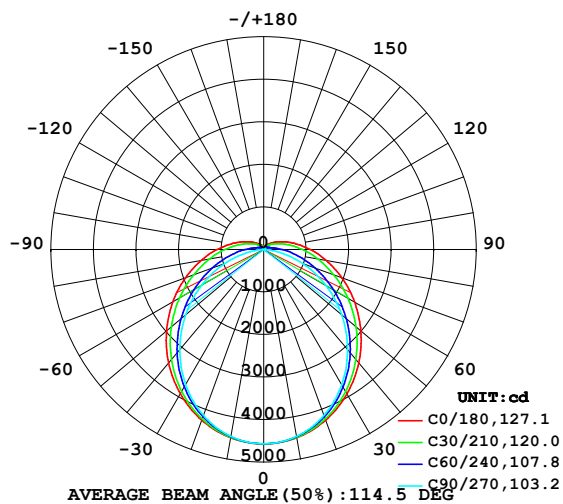


LUMINAIRE PHOTOMETRIC TEST REPORT

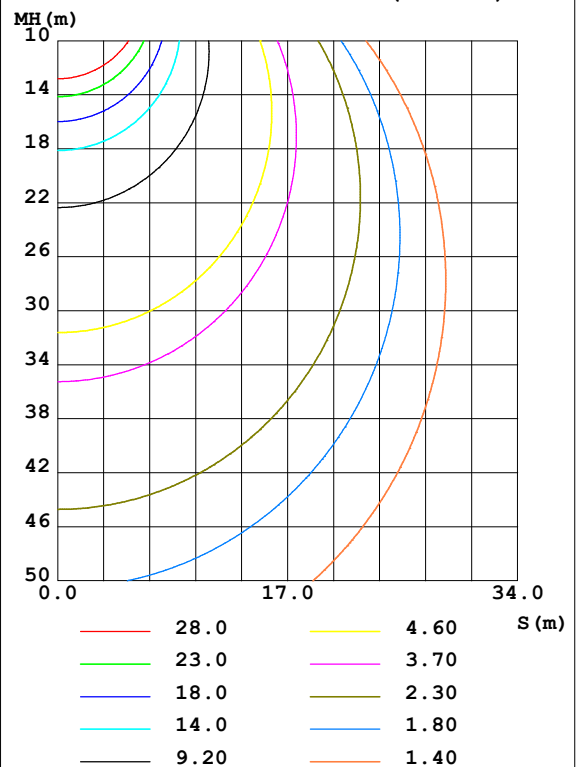
Test:U:230.4V I:0.4287A P:97.26W PF:0.9848 Freq:49.99Hz Lamp Flux:15617.5x1 lm		
NAME: T21CP-CC-100-1200K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 160.57 lm/W			
MODEL		I _{max} (cd)	4570	S/MH (C0/180)	1.28
NOMINAL POWER(W)	11	LOR(%)	100.0	S/MH (C90/270)	1.20
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	15618	η UP,DN(C0-180)	4.7,45.3
NOMINAL FLUX(lm)	15617.5	CIE CLASS	DIRECT	η UP,DN(C180-360)	4.7,45.3
LAMPS INSIDE	1	η up (%)	9.5	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230	η down (%)	90.5	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:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	4493	4479	4462	4479	4493	4479	4462	4479	0- 10	431.8	431.8	2.77,2.77
20	4268	4211	4152	4211	4268	4211	4152	4211	10- 20	1231	1663	10.6,10.6
30	3919	3794	3672	3794	3919	3794	3672	3794	20- 30	1852	3515	22.5,22.5
40	3479	3269	3070	3269	3479	3269	3070	3269	30- 40	2217	5732	36.7,36.7
50	2983	2687	2395	2687	2983	2687	2395	2687	40- 50	2304	8036	51.5,51.5
60	2467	2095	1689	2095	2467	2095	1689	2095	50- 60	2136	10172	65.1,65.1
70	1959	1541	979.2	1541	1959	1541	979.2	1541	60- 70	1777	11949	76.5,76.5
80	1493	1066	324.1	1066	1493	1066	324.1	1066	70- 80	1316	13264	84.9,84.9
90	1095	700.0	8.536	700.0	1095	700.0	8.536	700.0	80- 90	875.3	14140	90.5,90.5
100	777.3	439.4	11.41	439.4	777.3	439.4	11.41	439.4	90-100	563.5	14703	94.1,94.1
110	538.5	276.7	17.14	276.7	538.5	276.7	17.14	276.7	100-110	359.6	15063	96.4,96.4
120	362.3	177.2	22.84	177.2	362.3	177.2	22.84	177.2	110-120	225.5	15288	97.9,97.9
130	241.1	118.7	28.52	118.7	241.1	118.7	28.52	118.7	120-130	138.5	15427	98.8,98.8
140	160.4	88.24	34.37	88.24	160.4	88.24	34.37	88.24	130-140	84.83	15512	99.3,99.3
150	112.1	72.59	40.76	72.59	112.1	72.59	40.76	72.59	140-150	52.40	15564	99.7,99.7
160	83.73	62.15	46.59	62.15	83.73	62.15	46.59	62.15	150-160	31.71	15596	99.9,99.9
170	62.02	55.15	50.70	55.15	62.02	55.15	50.70	55.15	160-170	16.65	15612	100,100
180	47.37	52.20	53.25	52.20	47.37	52.20	53.25	52.20	170-180	5.079	15618	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 6890.3 lm

%lum = 44.1%

%lamp = 44.1%

Conical surface Flux(120deg): 10172 lm

%lum = 65.1%

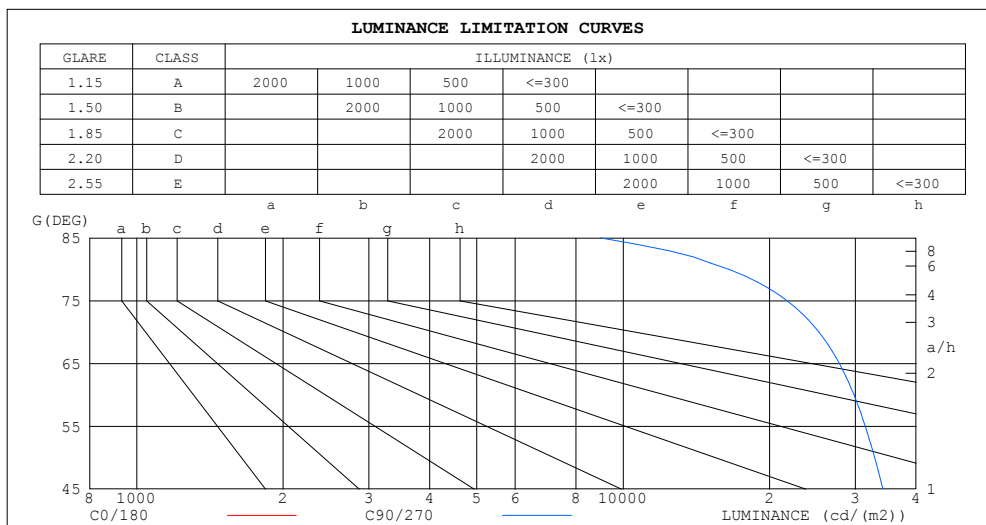
%lamp = 65.1%

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:

LUMINANCE LIMITATION CURVES

Test:U:230.4V I:0.4287A P:97.26W PF:0.9848 Freq:49.99Hz Lamp Flux:15617.5x1 lm		
NAME: T21CP-CC-100-1200K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	131012	8985
80	76444	16470
75	59032	21720
70	50920	25267
65	46488	27823
60	43862	29814
55	42241	31459
50	41250	32888
45	40681	34177

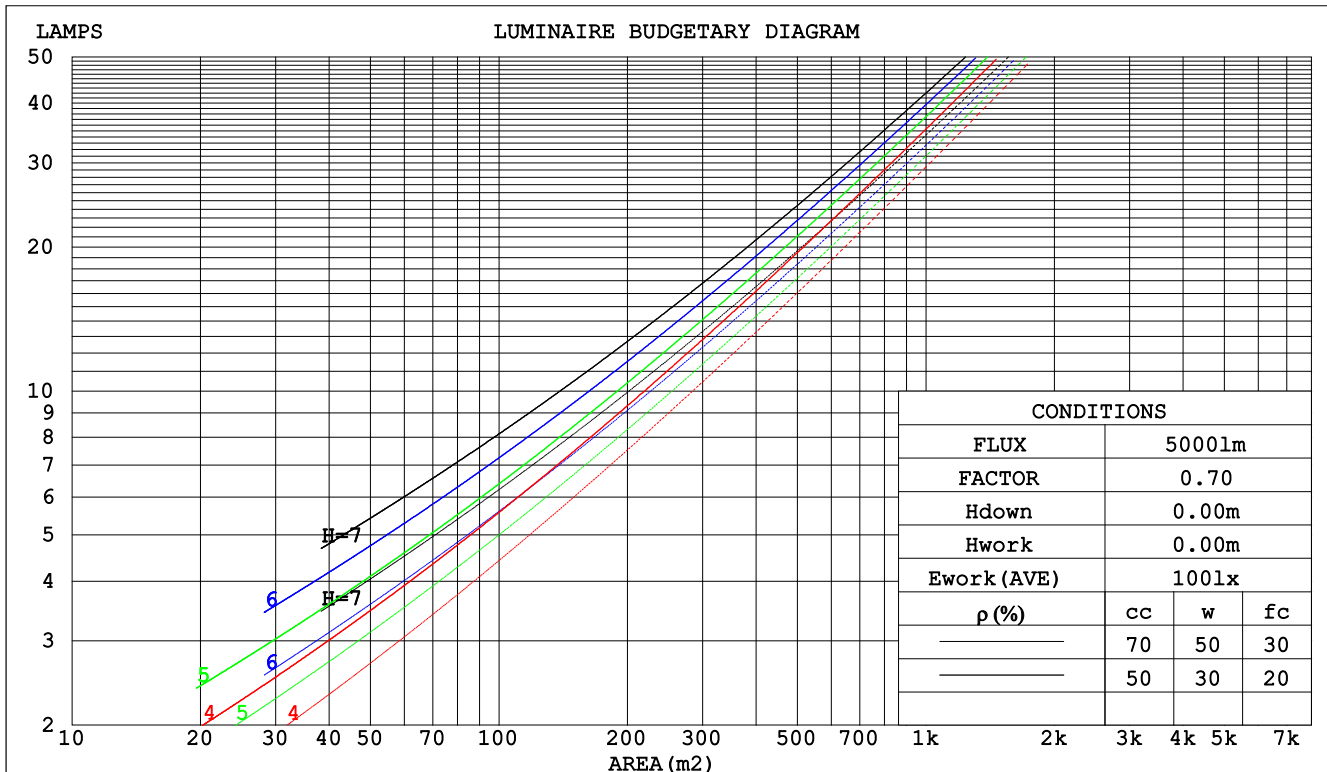
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2020-04-30

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:0.4287A P:97.26W PF:0.9848 Freq:49.99Hz Lamp Flux:15617.5x1 lm		
NAME: T21CP-CC-100-1200K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p _{fc}	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	1.06	1.06	1.06	.99	.99	.99	.93	.93	.93	.91
1.0	.99	.94	.90	.96	.91	.87	.90	.86	.83	.84	.81	.79	.79	.77	.75	.72
2.0	.86	.78	.72	.83	.76	.70	.78	.72	.67	.73	.68	.64	.69	.65	.61	.59
3.0	.75	.66	.59	.72	.64	.58	.68	.61	.56	.64	.58	.54	.60	.56	.52	.49
4.0	.66	.57	.50	.64	.56	.49	.60	.53	.47	.57	.51	.46	.54	.48	.44	.41
5.0	.59	.50	.43	.57	.48	.42	.54	.46	.41	.51	.44	.39	.48	.43	.38	.36
6.0	.53	.44	.37	.51	.43	.37	.49	.41	.36	.46	.39	.34	.44	.38	.33	.31
7.0	.48	.39	.33	.47	.38	.32	.44	.37	.31	.42	.35	.30	.40	.34	.30	.27
8.0	.44	.35	.29	.43	.34	.29	.40	.33	.28	.38	.32	.27	.37	.31	.26	.24
9.0	.40	.32	.26	.39	.31	.26	.37	.30	.25	.35	.29	.25	.34	.28	.24	.22
10.0	.37	.29	.24	.36	.28	.23	.34	.28	.23	.33	.27	.22	.31	.26	.22	.20



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:0.4287A P:97.26W PF:0.9848 Freq:49.99Hz Lamp Flux:15617.5x1 lm					
NAME: T21CP-CC-100-1200K-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	.356	.202	.064	.346	.197	.063	.327	.188	.060	.310	.179	.057	.294	.170	.055	
2.0	.316	.173	.053	.307	.169	.052	.290	.161	.050	.275	.154	.048	.260	.147	.046	
3.0	.285	.151	.045	.277	.148	.045	.261	.142	.043	.247	.136	.042	.234	.130	.040	
4.0	.258	.134	.039	.251	.131	.039	.238	.126	.038	.225	.121	.036	.213	.116	.035	
5.0	.236	.120	.035	.230	.118	.034	.218	.113	.033	.206	.109	.032	.196	.104	.031	
6.0	.218	.109	.031	.212	.107	.031	.201	.103	.030	.190	.099	.029	.181	.095	.028	
7.0	.202	.100	.028	.196	.098	.028	.186	.094	.027	.177	.091	.026	.168	.087	.026	
8.0	.187	.092	.026	.183	.090	.025	.173	.087	.025	.165	.083	.024	.157	.080	.023	
9.0	.175	.085	.024	.171	.083	.023	.162	.080	.023	.154	.077	.022	.147	.075	.022	
10.0	.164	.079	.022	.160	.077	.022	.153	.075	.021	.145	.072	.021	.138	.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	.263	.263	.263	.224	.224	.224	.153	.153	.153	.088	.088	.088	.028	.028	.028	
1.0	.256	.228	.203	.219	.196	.175	.150	.135	.121	.086	.078	.070	.028	.025	.023	
2.0	.249	.205	.168	.213	.176	.145	.146	.122	.101	.084	.071	.059	.027	.023	.019	
3.0	.241	.188	.146	.206	.162	.126	.142	.113	.089	.082	.066	.052	.026	.021	.017	
4.0	.233	.175	.131	.200	.151	.114	.138	.105	.080	.080	.062	.047	.026	.020	.016	
5.0	.225	.165	.120	.194	.143	.105	.133	.100	.074	.077	.059	.044	.025	.019	.014	
6.0	.218	.157	.113	.187	.136	.098	.129	.095	.070	.075	.056	.041	.024	.018	.014	
7.0	.211	.150	.107	.181	.130	.094	.125	.091	.066	.073	.054	.039	.024	.018	.013	
8.0	.204	.144	.103	.176	.125	.090	.122	.088	.064	.071	.052	.038	.023	.017	.013	
9.0	.198	.140	.100	.171	.121	.087	.118	.085	.062	.069	.050	.037	.022	.016	.012	
10.0	.192	.135	.097	.166	.117	.085	.115	.083	.060	.067	.049	.036	.022	.016	.012	

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:0.4287A P:97.26W PF:0.9848 Freq:49.99Hz Lamp Flux:15617.5x1 lm											
NAME: T21CP-CC-100-1200K-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	15.9	17.4	16.3	17.7	18.1	14.3	15.8	14.7	16.1	16.5	
	3H	18.2	19.5	18.6	19.9	20.4	15.6	17.0	16.1	17.4	17.8
	4H	19.4	20.7	19.9	21.1	21.6	16.1	17.4	16.6	17.8	18.3
	6H	20.7	21.9	21.2	22.4	22.9	16.4	17.6	16.9	18.0	18.5
	8H	21.5	22.6	21.9	23.1	23.6	16.5	17.6	17.0	18.1	18.6
	12H	22.3	23.4	22.8	23.9	24.4	16.5	17.6	17.0	18.0	18.6
4H	2H	16.4	17.7	16.9	18.1	18.6	15.2	16.5	15.7	16.9	17.4
	3H	19.0	20.1	19.4	20.5	21.0	16.8	17.9	17.3	18.4	18.9
	4H	20.4	21.4	20.9	21.9	22.4	17.4	18.5	18.0	18.9	19.5
	6H	21.9	22.8	22.5	23.3	23.9	17.9	18.8	18.4	19.3	19.9
	8H	22.8	23.6	23.3	24.2	24.7	18.0	18.9	18.6	19.4	20.0
	12H	23.8	24.5	24.3	25.1	25.7	18.1	18.9	18.6	19.4	20.0
8H	4H	20.7	21.5	21.2	22.0	22.6	18.2	19.1	18.8	19.6	20.2
	6H	22.5	23.2	23.1	23.8	24.4	19.0	19.7	19.6	20.3	20.9
	8H	23.6	24.2	24.2	24.8	25.4	19.3	20.0	19.9	20.5	21.2
	12H	24.8	25.4	25.4	26.0	26.6	19.5	20.1	20.1	20.7	21.3
12H	4H	20.7	21.5	21.2	22.0	22.6	18.5	19.3	19.0	19.8	20.4
	6H	22.6	23.2	23.2	23.8	24.5	19.5	20.1	20.1	20.7	21.3
	8H	23.8	24.3	24.4	24.9	25.6	19.9	20.5	20.5	21.1	21.7
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, 15618 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 9.5)

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:

UTILIZATION FACTORS TABLE

Test:U:230.4V I:0.4287A P:97.26W PF:0.9848 Freq:49.99Hz Lamp Flux:15617.5x1 lm		
NAME: T21CP-CC-100-1200K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

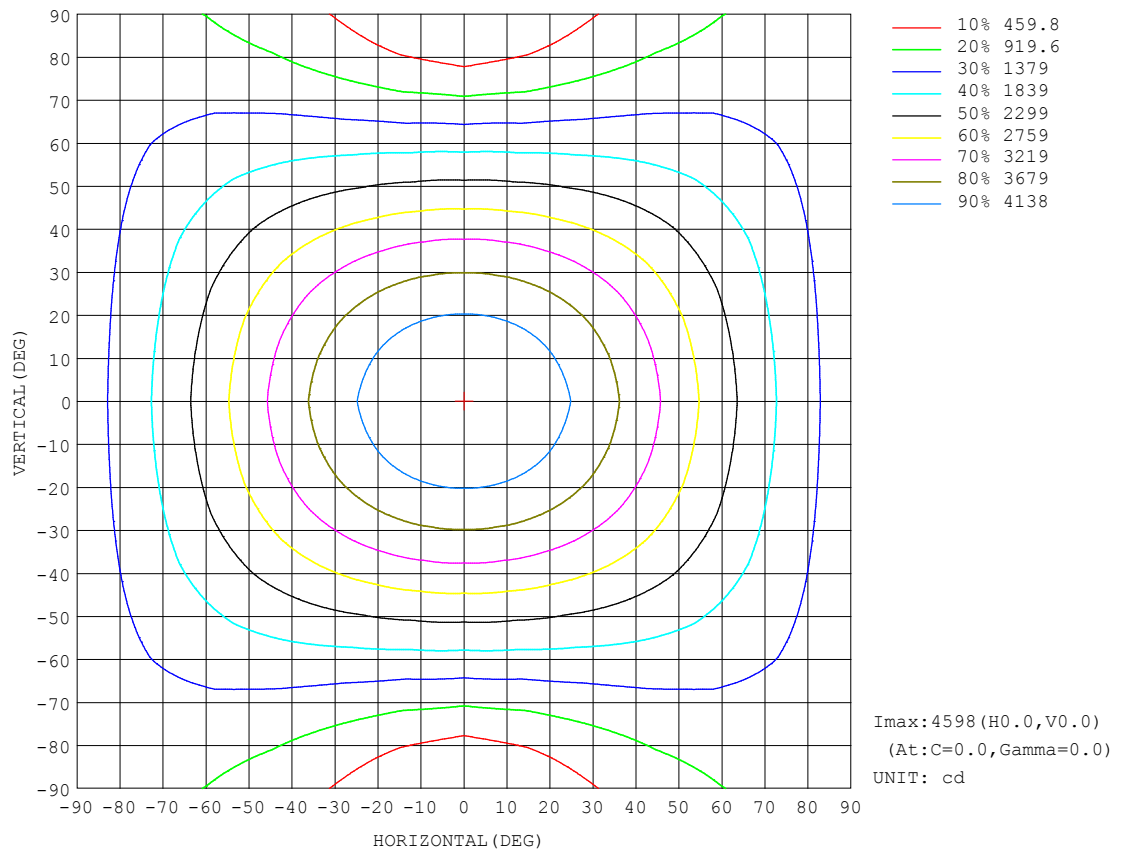
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	53	41	34	52	40	33	50	40	33	27
0.80	62	50	42	61	49	42	59	48	41	34
1.00	70	58	50	69	57	50	66	58	49	41
1.25	77	65	57	75	64	57	72	62	56	47
1.50	82	71	63	80	70	62	76	67	61	52
2.00	89	79	71	86	77	70	82	74	68	58
2.50	93	84	77	90	82	75	85	78	73	62
3.00	97	88	82	94	86	80	88	82	77	66
4.00	101	94	88	98	92	86	92	87	83	71
5.00	104	98	92	100	95	90	94	90	86	74
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: 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:

ISOCANDELA DIAGRAM

Test:U:230.4V I:0.4287A P:97.26W PF:0.9848 Freq:49.99Hz Lamp Flux:15617.5x1 lm		
NAME: T21CP-CC-100-1200K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

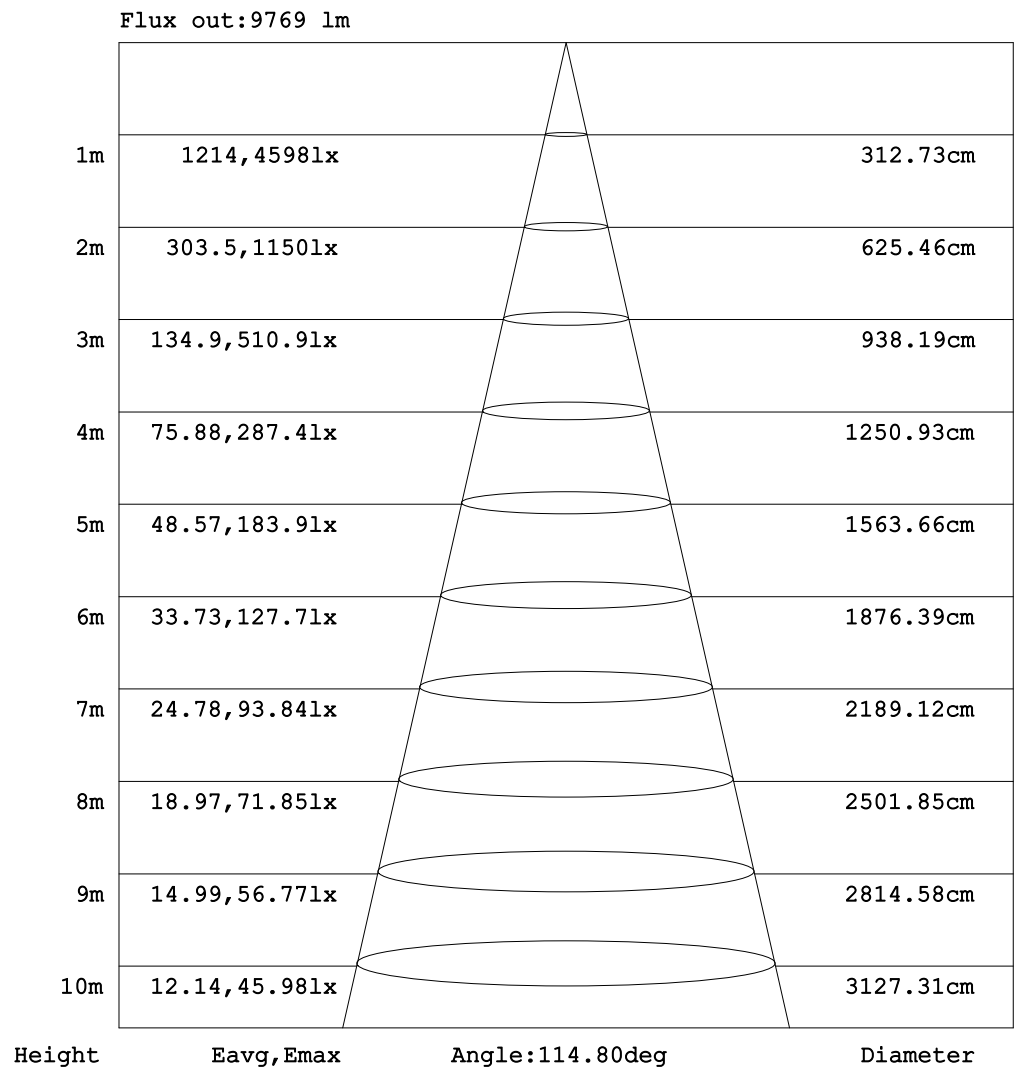


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QC
Test Date: 2020-04-30

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:0.4287A P:97.26W PF:0.9848 Freq:49.99Hz Lamp Flux:15617.5x1 lm		
NAME: T21CP-CC-100-1200K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:



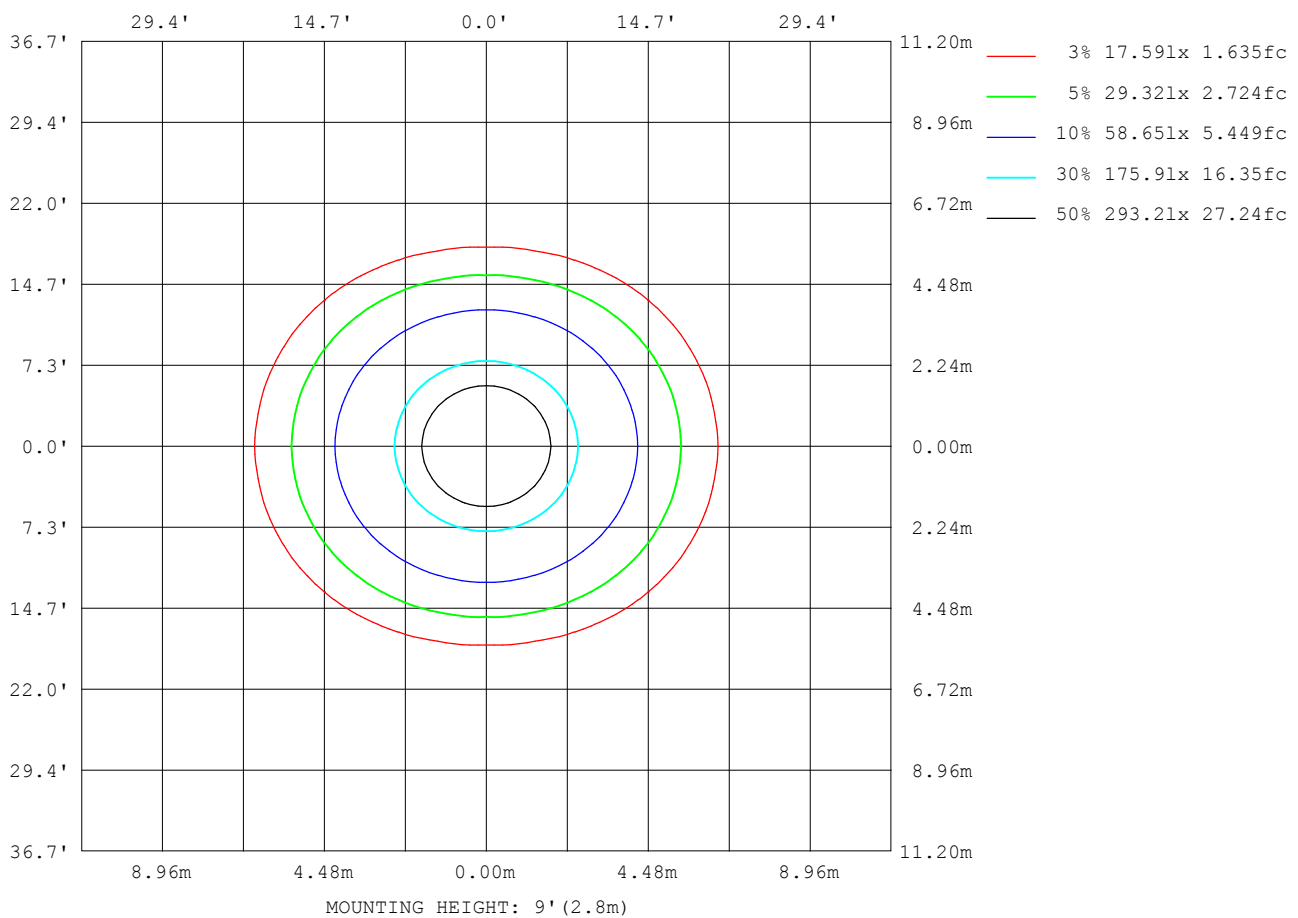
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.4287A P:97.26W PF:0.9848 Freq:49.99Hz Lamp Flux:15617.5x1 lm		
NAME: T21CP-CC-100-1200K-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:0.4287A P:97.26W PF:0.9848 Freq:49.99Hz Lamp Flux:15617.5x1 lm		
NAME: T21CP-CC-100-1200K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

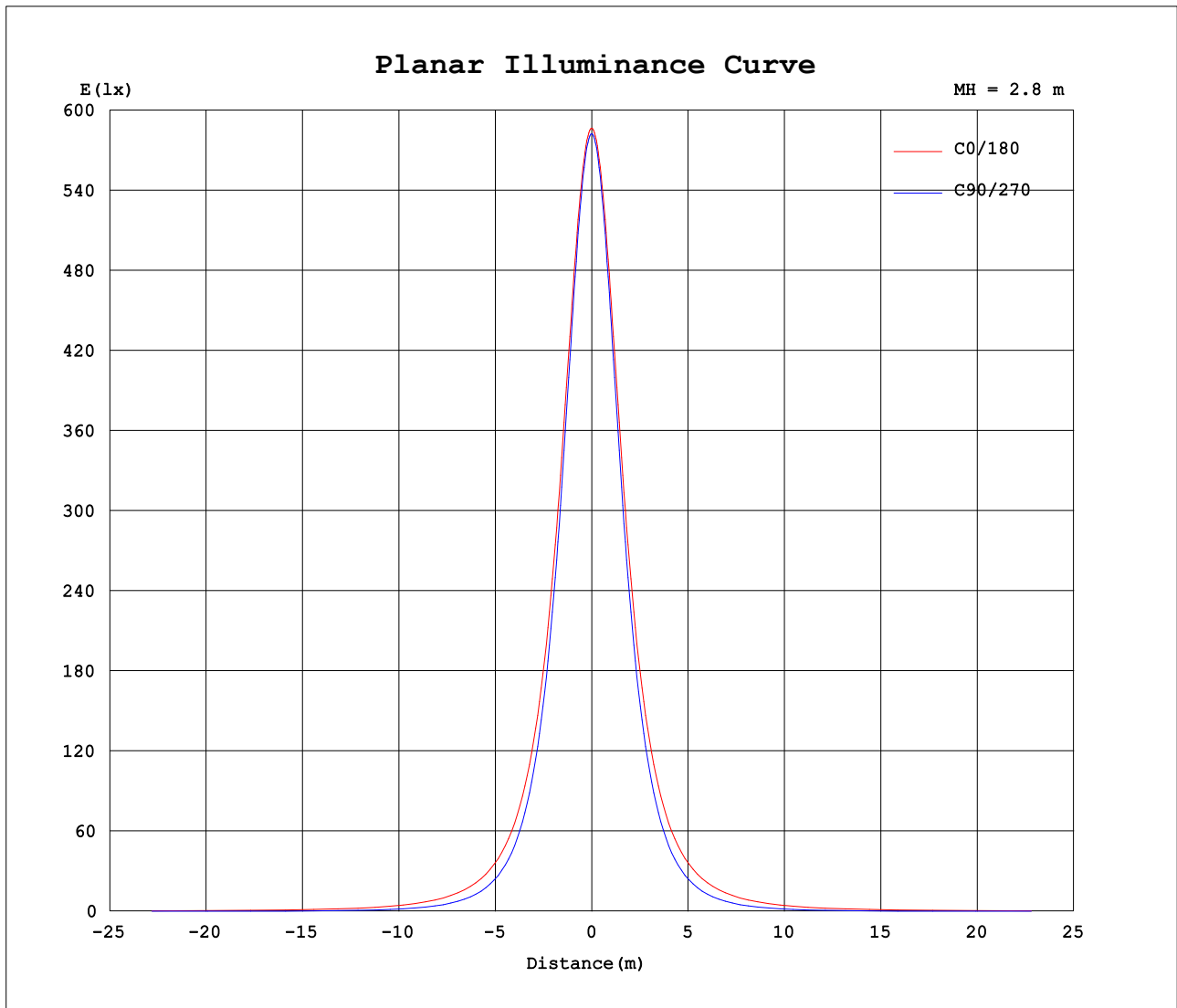
AvgL	cd/m2
L_0~180 (65) av	46203
L_0~180 (75) av	58670
L_0~180 (85) av	130208
L_90~270 (65) av	27850
L_90~270 (75) av	21741
L_90~270 (85) av	8993
L_45 (65) av	37839
L_45 (75) av	44064
L_45 (85) av	88070

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

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:0.4287A P:97.26W PF:0.9848 Freq:49.99Hz Lamp Flux:15617.5x1 lm																		
NAME: T21CP-CC-100-1200K-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	4570	4570	4570	4570	4570	4570	4570	4570	4570	4570	4570	4570	4570	4570	4570	4570	4570	4570	4570
5	4551	4550	4549	4547	4545	4543	4543	4543	4545	4547	4549	4550	4551	4550	4549	4547	4545	4543	4543
10	4493	4492	4486	4479	4471	4465	4462	4465	4471	4479	4486	4492	4493	4492	4486	4479	4471	4465	4462
15	4398	4394	4382	4366	4348	4336	4331	4336	4348	4366	4382	4394	4398	4394	4382	4366	4348	4336	4331
20	4268	4261	4240	4211	4182	4160	4152	4160	4182	4211	4240	4261	4268	4261	4240	4211	4182	4160	4152
25	4107	4095	4063	4019	3975	3943	3930	3943	3975	4019	4063	4095	4107	4095	4063	4019	3975	3943	3930
30	3919	3902	3856	3794	3733	3688	3672	3688	3733	3794	3856	3902	3919	3902	3856	3794	3733	3688	3672
35	3708	3686	3625	3542	3462	3404	3383	3404	3462	3542	3625	3686	3708	3686	3625	3542	3462	3404	3383
40	3479	3451	3374	3269	3167	3095	3070	3095	3167	3269	3374	3451	3479	3451	3374	3269	3167	3095	3070
45	3236	3202	3109	2982	2857	2770	2738	2770	2857	2982	3109	3202	3236	3202	3109	2982	2857	2770	2738
50	2983	2944	2836	2687	2538	2433	2395	2433	2538	2687	2836	2944	2983	2944	2836	2687	2538	2433	2395
55	2726	2681	2559	2389	2215	2089	2045	2089	2215	2389	2559	2681	2726	2681	2559	2389	2215	2089	2045
60	2467	2419	2285	2095	1896	1744	1689	1744	1896	2095	2285	2419	2467	2419	2285	2095	1896	1744	1689
65	2210	2160	2017	1810	1586	1404	1332	1404	1586	1810	2017	2160	2210	2160	2017	1810	1586	1404	1332
70	1959	1907	1759	1541	1294	1076	979	1076	1294	1541	1759	1907	1959	1907	1759	1541	1294	1076	979
75	1719	1666	1517	1291	1025	769	637	769	1025	1291	1517	1666	1719	1666	1517	1291	1025	769	637
80	1493	1441	1293	1066	788	499	324	499	788	1066	1293	1441	1493	1441	1293	1066	788	499	324
85	1285	1235	1091	869	593	291	88.7	291	593	869	1091	1235	1285	1235	1091	869	593	291	88.7
90	1095	1048	912	700	438	165	8.54	165	438	700	912	1048	1095	1048	912	700	438	165	8.54
95	926	882	755	558	316	89.6	9.22	89.6	316	558	755	882	926	882	755	558	316	89.6	9.22
100	777	737	619	439	231	60.3	11.4	60.3	231	439	619	737	777	737	619	439	231	60.3	11.4
105	649	611	505	348	174	49.2	14.2	49.2	174	348	505	611	649	611	505	348	174	49.2	14.2
110	538	504	409	277	137	43.8	17.1	43.8	137	277	409	504	538	504	409	277	137	43.8	17.1
115	443	410	332	223	111	41.4	20.0	41.4	111	223	332	410	443	410	332	223	111	41.4	20.0
120	362	333	270	177	92.2	40.7	22.8	40.7	92.2	177	270	333	362	333	270	177	92.2	40.7	22.8
125	296	271	221	142	79.7	41.1	25.7	41.1	79.7	142	221	271	296	271	221	142	79.7	41.1	25.7
130	241	221	179	119	71.8	41.8	28.5	41.8	71.8	119	179	221	241	221	179	119	71.8	41.8	28.5
135	196	181	143	101	66.9	42.7	31.4	42.7	66.9	101	143	181	196	181	143	101	66.9	42.7	31.4
140	160	150	118	88.2	63.4	43.7	34.4	43.7	63.4	88.2	118	150	160	150	118	88.2	63.4	43.7	34.4
145	133	125	99.4	79.3	60.7	45.2	37.5	45.2	60.7	79.3	99.4	125	133	125	99.4	79.3	60.7	45.2	37.5
150	112	105	86.7	72.6	58.7	47.0	40.8	47.0	58.7	72.6	86.7	105	112	105	86.7	72.6	58.7	47.0	40.8
155	96.5	87.7	76.9	67.0	57.0	48.7	43.9	48.7	57.0	67.0	76.9	87.7	96.5	87.7	76.9	67.0	57.0	48.7	43.9
160	83.7	75.1	68.1	62.2	55.7	49.8	46.6	49.8	55.7	62.2	68.1	75.1	83.7	75.1	68.1	62.2	55.7	49.8	46.6
165	72.1	64.4	60.4	58.1	54.6	50.7	48.8	50.7	54.6	58.1	60.4	64.4	72.1	64.4	60.4	58.1	54.6	50.7	48.8
170	62.0	56.1	55.7	55.2	53.3	51.6	50.7	51.6	53.3	55.2	55.7	56.1	62.0	56.1	55.7	55.2	53.3	51.6	50.7
175	53.3	50.6	52.3	52.7	52.9	52.7	52.3	52.7	52.9	52.7	52.3	50.6	53.3	50.6	52.3	52.7	52.9	52.7	52.3
180	47.4	49.8	51.4	52.2	53.0	53.4	53.2	53.4	53.0	52.2	51.4	49.8	47.4	49.8	51.4	52.2	53.0	53.4	53.2

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:0.4287A P:97.26W PF:0.9848 Freq:49.99Hz Lamp Flux:15617.5x1 lm		
NAME: T21CP-CC-100-1200K-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	4570	4570	4570	4570	4570														
5	4543	4545	4547	4549	4550														
10	4465	4471	4479	4486	4492														
15	4336	4348	4366	4382	4394														
20	4160	4182	4211	4240	4261														
25	3943	3975	4019	4063	4095														
30	3688	3733	3794	3856	3902														
35	3404	3462	3542	3625	3686														
40	3095	3167	3269	3374	3451														
45	2770	2857	2982	3109	3202														
50	2433	2538	2687	2836	2944														
55	2089	2215	2389	2559	2681														
60	1744	1896	2095	2285	2419														
65	1404	1586	1810	2017	2160														
70	1076	1294	1541	1759	1907														
75	769	1025	1291	1517	1666														
80	499	788	1066	1293	1441														
85	291	593	869	1091	1235														
90	165	438	700	912	1048														
95	89.6	316	558	755	882														
100	60.3	231	439	619	737														
105	49.2	174	348	505	611														
110	43.8	137	277	409	504														
115	41.4	111	223	332	410														
120	40.7	92.2	177	270	333														
125	41.1	79.7	142	221	271														
130	41.8	71.8	119	179	221														
135	42.7	66.9	101	143	181														
140	43.7	63.4	88.2	118	150														
145	45.2	60.7	79.3	99.4	125														
150	47.0	58.7	72.6	86.7	105														
155	48.7	57.0	67.0	76.9	87.7														
160	49.8	55.7	62.2	68.1	75.1														
165	50.7	54.6	58.1	60.4	64.4														
170	51.6	53.3	55.2	55.7	56.1														
175	52.7	52.9	52.7	52.3	50.6														
180	53.4	53.0	52.2	51.4	49.8														

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	4570	4570	4570	4570	4570	4570	4570	4570	4570	4570
3.0	4563	4563	4562	4562	4561	4560	4560	4560	4561	4562
6.0	4542	4542	4540	4537	4534	4532	4531	4532	4534	4537
9.0	4508	4506	4502	4496	4489	4485	4483	4485	4489	4496
12.0	4460	4457	4450	4439	4427	4419	4416	4419	4427	4439
15.0	4398	4394	4382	4366	4348	4336	4331	4336	4348	4366
18.0	4324	4318	4301	4278	4254	4236	4229	4236	4254	4278
21.0	4238	4230	4207	4176	4144	4120	4111	4120	4144	4176
24.0	4141	4131	4101	4060	4020	3989	3978	3989	4020	4060
27.0	4034	4021	3983	3932	3882	3845	3831	3845	3882	3932
30.0	3919	3902	3856	3794	3733	3688	3672	3688	3733	3794
33.0	3795	3775	3720	3645	3573	3521	3501	3521	3573	3645
36.0	3664	3640	3576	3488	3404	3344	3322	3344	3404	3488
39.0	3526	3499	3426	3325	3227	3159	3134	3159	3227	3325
42.0	3384	3353	3270	3155	3045	2967	2939	2967	3045	3155
45.0	3236	3202	3109	2982	2857	2770	2738	2770	2857	2982
48.0	3085	3048	2946	2805	2666	2569	2534	2569	2666	2805
51.0	2932	2892	2781	2627	2473	2364	2326	2364	2473	2627
54.0	2778	2734	2615	2449	2280	2158	2116	2158	2280	2449
57.0	2622	2577	2449	2271	2087	1951	1903	1951	2087	2271
60.0	2467	2419	2285	2095	1896	1744	1689	1744	1896	2095
63.0	2313	2263	2123	1923	1708	1540	1475	1540	1708	1923
66.0	2160	2108	1965	1755	1526	1338	1262	1338	1526	1755
69.0	2009	1957	1810	1593	1350	1141	1049	1141	1350	1593
72.0	1862	1809	1660	1438	1183	949.8	839.7	949.8	1183	1438
75.0	1719	1666	1517	1291	1025	769.0	637.0	769.0	1025	1291
78.0	1582	1529	1380	1152	878.7	600.7	444.5	600.7	878.7	1152
81.0	1450	1399	1251	1024	744.9	452.0	268.3	452.0	744.9	1024
84.0	1325	1275	1130	906.0	628.0	326.2	126.1	326.2	628.0	906.0
87.0	1206	1158	1017	798.0	526.1	232.9	33.17	232.9	526.1	798.0
90.0	1095	1048	912.0	700.0	437.8	164.9	8.536	164.9	437.8	700.0
93.0	991.2	945.9	815.0	611.3	360.2	112.2	8.503	112.2	360.2	611.3
96.0	894.9	851.4	726.1	531.9	295.9	81.50	9.610	81.50	295.9	531.9
99.0	805.6	764.3	644.8	461.1	245.5	65.01	10.92	65.01	245.5	461.1
102.0	724.0	684.2	571.6	400.1	205.9	54.76	12.49	54.76	205.9	400.1
105.0	648.9	611.3	505.4	348.1	174.1	49.23	14.21	49.23	174.1	348.1
108.0	580.6	544.8	446.3	303.4	148.8	45.43	15.95	45.43	148.8	303.4
111.0	518.4	484.0	392.9	264.9	131.5	43.11	17.70	43.11	131.5	264.9
114.0	461.5	427.8	346.2	232.4	115.8	41.69	19.46	41.69	115.8	232.4
117.0	408.8	377.5	305.3	203.4	102.4	40.95	21.14	40.95	102.4	203.4
120.0	362.3	333.1	270.0	177.2	92.21	40.74	22.84	40.74	92.21	177.2
123.0	320.9	294.0	239.3	152.8	84.05	40.90	24.55	40.90	84.05	152.8
126.0	284.0	260.2	211.8	136.9	77.77	41.21	26.25	41.21	77.77	136.9
129.0	251.2	230.2	186.6	122.6	73.06	41.64	27.95	41.64	73.06	122.6
132.0	222.2	203.4	163.2	111.1	69.56	42.13	29.68	42.13	69.56	111.1
135.0	196.2	181.1	143.4	101.1	66.90	42.67	31.40	42.67	66.90	101.1
138.0	173.7	161.3	127.3	92.90	64.72	43.24	33.18	43.24	64.72	92.90
141.0	154.3	144.3	114.1	86.15	62.85	43.92	34.98	43.92	62.85	86.15
144.0	137.7	129.7	102.7	80.78	61.20	44.84	36.87	44.84	61.20	80.78
147.0	123.8	116.8	93.57	76.53	59.90	45.87	38.78	45.87	59.90	76.53
150.0	112.1	104.6	86.73	72.59	58.73	47.01	40.76	47.01	58.73	72.59
153.0	102.3	94.14	80.75	69.06	57.69	48.03	42.67	48.03	57.69	69.06
156.0	93.82	84.84	75.13	65.98	56.71	48.95	44.47	48.95	56.71	65.98
159.0	86.15	77.40	69.79	63.07	55.95	49.63	46.10	49.63	55.95	63.07
162.0	78.95	70.62	64.77	60.36	55.34	50.22	47.54	50.22	55.34	60.36
165.0	72.08	64.40	60.37	58.07	54.64	50.72	48.78	50.72	54.64	58.07
168.0	65.65	58.85	57.16	56.33	53.78	51.21	49.94	51.21	53.78	56.33
171.0	60.40	54.93	55.09	54.55	53.16	51.87	51.11	51.87	53.16	54.55
174.0	55.32	51.55	52.78	53.07	52.97	52.56	52.08	52.56	52.97	53.07
177.0	49.13	49.71	51.64	52.23	52.81	52.96	52.70	52.96	52.81	52.23
180.0	47.37	49.81	51.45	52.20	53.03	53.40	53.25	53.40	53.03	52.20
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	4570	4570	4570	4570	4570	4570	4570	4570	4570	4570
3.0	4562	4563	4563	4563	4562	4562	4561	4560	4560	4560
6.0	4540	4542	4542	4542	4540	4537	4534	4532	4531	4532
9.0	4502	4506	4508	4506	4502	4496	4489	4485	4483	4485
12.0	4450	4457	4460	4457	4450	4439	4427	4419	4416	4419
15.0	4382	4394	4398	4394	4382	4366	4348	4336	4331	4336
18.0	4301	4318	4324	4318	4301	4278	4254	4236	4229	4236
21.0	4207	4230	4238	4230	4207	4176	4144	4120	4111	4120
24.0	4101	4131	4141	4131	4101	4060	4020	3989	3978	3989
27.0	3983	4021	4034	4021	3983	3932	3882	3845	3831	3845
30.0	3856	3902	3919	3902	3856	3794	3733	3688	3672	3688

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	3720	3775	3795	3775	3720	3645	3573	3521	3501	3521
36.0	3576	3640	3664	3640	3576	3488	3404	3344	3322	3344
39.0	3426	3499	3526	3499	3426	3325	3227	3159	3134	3159
42.0	3270	3353	3384	3353	3270	3155	3045	2967	2939	2967
45.0	3109	3202	3236	3202	3109	2982	2857	2770	2738	2770
48.0	2946	3048	3085	3048	2946	2805	2666	2569	2534	2569
51.0	2781	2892	2932	2892	2781	2627	2473	2364	2326	2364
54.0	2615	2734	2778	2734	2615	2449	2280	2158	2116	2158
57.0	2449	2577	2622	2577	2449	2271	2087	1951	1903	1951
60.0	2285	2419	2467	2419	2285	2095	1896	1744	1689	1744
63.0	2123	2263	2313	2263	2123	1923	1708	1540	1475	1540
66.0	1965	2108	2160	2108	1965	1755	1526	1338	1262	1338
69.0	1810	1957	2009	1957	1810	1593	1350	1141	1049	1141
72.0	1660	1809	1862	1809	1660	1438	1183	949.8	839.7	949.8
75.0	1517	1666	1719	1666	1517	1291	1025	769.0	637.0	769.0
78.0	1380	1529	1582	1529	1380	1152	878.7	600.7	444.5	600.7
81.0	1251	1399	1450	1399	1251	1024	744.9	452.0	268.3	452.0
84.0	1130	1275	1325	1275	1130	906.0	628.0	326.2	126.1	326.2
87.0	1017	1158	1206	1158	1017	798.0	526.1	232.9	33.17	232.9
90.0	912.0	1048	1095	1048	912.0	700.0	437.8	164.9	8.536	164.9
93.0	815.0	945.9	991.2	945.9	815.0	611.3	360.2	112.2	8.503	112.2
96.0	726.1	851.4	894.9	851.4	726.1	531.9	295.9	81.50	9.610	81.50
99.0	644.8	764.3	805.6	764.3	644.8	461.1	245.5	65.01	10.92	65.01
102.0	571.6	684.2	724.0	684.2	571.6	400.1	205.9	54.76	12.49	54.76
105.0	505.4	611.3	648.9	611.3	505.4	348.1	174.1	49.23	14.21	49.23
108.0	446.3	544.8	580.6	544.8	446.3	303.4	148.8	45.43	15.95	45.43
111.0	392.9	484.0	518.4	484.0	392.9	264.9	131.5	43.11	17.70	43.11
114.0	346.2	427.8	461.5	427.8	346.2	232.4	115.8	41.69	19.46	41.69
117.0	305.3	377.5	408.8	377.5	305.3	203.4	102.4	40.95	21.14	40.95
120.0	270.0	333.1	362.3	333.1	270.0	177.2	92.21	40.74	22.84	40.74
123.0	239.3	294.0	320.9	294.0	239.3	152.8	84.05	40.90	24.55	40.90
126.0	211.8	260.2	284.0	260.2	211.8	136.9	77.77	41.21	26.25	41.21
129.0	186.6	230.2	251.2	230.2	186.6	122.6	73.06	41.64	27.95	41.64
132.0	163.2	203.4	222.2	203.4	163.2	111.1	69.56	42.13	29.68	42.13
135.0	143.4	181.1	196.2	181.1	143.4	101.1	66.90	42.67	31.40	42.67
138.0	127.3	161.3	173.7	161.3	127.3	92.90	64.72	43.24	33.18	43.24
141.0	114.1	144.3	154.3	144.3	114.1	86.15	62.85	43.92	34.98	43.92
144.0	102.7	129.7	137.7	129.7	102.7	80.78	61.20	44.84	36.87	44.84
147.0	93.57	116.8	123.8	116.8	93.57	76.53	59.90	45.87	38.78	45.87
150.0	86.73	104.6	112.1	104.6	86.73	72.59	58.73	47.01	40.76	47.01
153.0	80.75	94.14	102.3	94.14	80.75	69.06	57.69	48.03	42.67	48.03
156.0	75.13	84.84	93.82	84.84	75.13	65.98	56.71	48.95	44.47	48.95
159.0	69.79	77.40	86.15	77.40	69.79	63.07	55.95	49.63	46.10	49.63
162.0	64.77	70.62	78.95	70.62	64.77	60.36	55.34	50.22	47.54	50.22
165.0	60.37	64.40	72.08	64.40	60.37	58.07	54.64	50.72	48.78	50.72
168.0	57.16	58.85	65.65	58.85	57.16	56.33	53.78	51.21	49.94	51.21
171.0	55.09	54.93	60.40	54.93	55.09	54.55	53.16	51.87	51.11	51.87
174.0	52.78	51.55	55.32	51.55	52.78	53.07	52.97	52.56	52.08	52.56
177.0	51.64	49.71	49.13	49.71	51.64	52.23	52.81	52.96	52.70	52.96
180.0	51.45	49.81	47.37	49.81	51.45	52.20	53.03	53.40	53.25	53.40
G/C	300.0	315.0	330.0	345.0						
0.0	4570	4570	4570	4570						
3.0	4561	4562	4562	4563						
6.0	4534	4537	4540	4542						
9.0	4489	4496	4502	4506						
12.0	4427	4439	4450	4457						
15.0	4348	4366	4382	4394						
18.0	4254	4278	4301	4318						
21.0	4144	4176	4207	4230						
24.0	4020	4060	4101	4131						
27.0	3882	3932	3983	4021						
30.0	3733	3794	3856	3902						
33.0	3573	3645	3720	3775						
36.0	3404	3488	3576	3640						
39.0	3227	3325	3426	3499						
42.0	3045	3155	3270	3353						
45.0	2857	2982	3109	3202						
48.0	2666	2805	2946	3048						
51.0	2473	2627	2781	2892						
54.0	2280	2449	2615	2734						
57.0	2087	2271	2449	2577						
60.0	1896	2095	2285	2419						
63.0	1708	1923	2123	2263						
66.0	1526	1755	1965	2108						

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	1350	1593	1810	1957
72.0	1183	1438	1660	1809
75.0	1025	1291	1517	1666
78.0	878.7	1152	1380	1529
81.0	744.9	1024	1251	1399
84.0	628.0	906.0	1130	1275
87.0	526.1	798.0	1017	1158
90.0	437.8	700.0	912.0	1048
93.0	360.2	611.3	815.0	945.9
96.0	295.9	531.9	726.1	851.4
99.0	245.5	461.1	644.8	764.3
102.0	205.9	400.1	571.6	684.2
105.0	174.1	348.1	505.4	611.3
108.0	148.8	303.4	446.3	544.8
111.0	131.5	264.9	392.9	484.0
114.0	115.8	232.4	346.2	427.8
117.0	102.4	203.4	305.3	377.5
120.0	92.21	177.2	270.0	333.1
123.0	84.05	152.8	239.3	294.0
126.0	77.77	136.9	211.8	260.2
129.0	73.06	122.6	186.6	230.2
132.0	69.56	111.1	163.2	203.4
135.0	66.90	101.1	143.4	181.1
138.0	64.72	92.90	127.3	161.3
141.0	62.85	86.15	114.1	144.3
144.0	61.20	80.78	102.7	129.7
147.0	59.90	76.53	93.57	116.8
150.0	58.73	72.59	86.73	104.6
153.0	57.69	69.06	80.75	94.14
156.0	56.71	65.98	75.13	84.84
159.0	55.95	63.07	69.79	77.40
162.0	55.34	60.36	64.77	70.62
165.0	54.64	58.07	60.37	64.40
168.0	53.78	56.33	57.16	58.85
171.0	53.16	54.55	55.09	54.93
174.0	52.97	53.07	52.78	51.55
177.0	52.81	52.23	51.64	49.71
180.0	53.03	52.20	51.45	49.81

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: