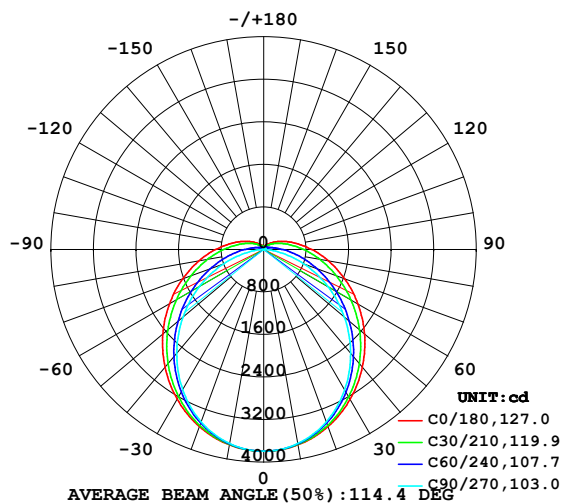


LUMINAIRE PHOTOMETRIC TEST REPORT

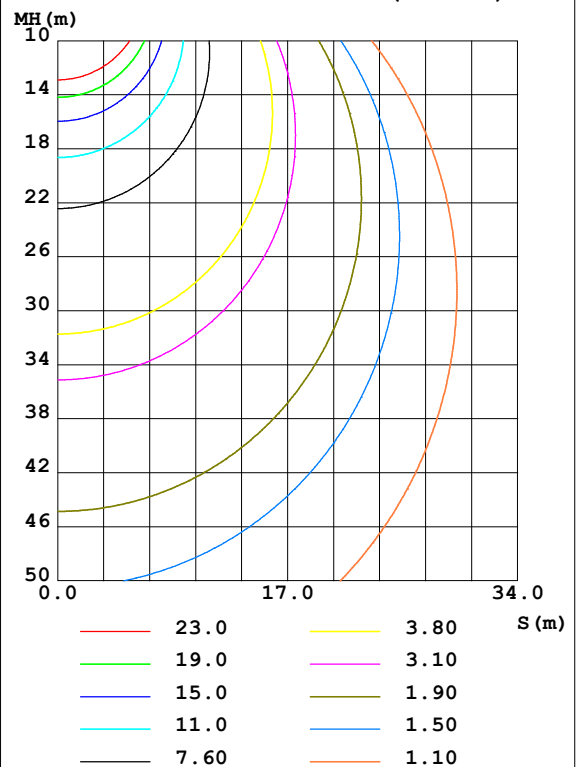
Test:U:230.4V I:0.3558A P:81.03W PF:0.9885 Freq:49.99Hz Lamp Flux:12965x1 lm		
NAME: T21CP-CC-80-1200K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 160.01 lm/W			
MODEL		I _{max} (cd)	3795	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)	12965	η UP, DN (C0-180)	4.8, 45.2
NOMINAL FLUX (lm)	12965	CIE CLASS	DIRECT	η UP, DN (C180-360)	4.8, 45.2
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	3731	3719	3706	3719	3731	3719	3706	3719	0- 10	358.6	358.6	2.77,2.77
20	3544	3497	3447	3497	3544	3497	3447	3497	10- 20	1022	1381	10.7,10.7
30	3254	3150	3047	3150	3254	3150	3047	3150	20- 30	1537	2919	22.5,22.5
40	2889	2713	2546	2713	2889	2713	2546	2713	30- 40	1841	4759	36.7,36.7
50	2477	2229	1984	2229	2477	2229	1984	2229	40- 50	1912	6671	51.5,51.5
60	2047	1737	1398	1737	2047	1737	1398	1737	50- 60	1772	8442	65.1,65.1
70	1625	1277	812.5	1277	1625	1277	812.5	1277	60- 70	1473	9915	76.5,76.5
80	1236	881.8	273.0	881.8	1236	881.8	273.0	881.8	70- 80	1090	11006	84.9,84.9
90	905.3	579.0	7.189	579.0	905.3	579.0	7.189	579.0	80- 90	724.8	11730	90.5,90.5
100	641.9	368.3	9.376	368.3	641.9	368.3	9.376	368.3	90-100	467.8	12198	94.1,94.1
110	444.3	235.7	14.21	235.7	444.3	235.7	14.21	235.7	100-110	300.1	12498	96.4,96.4
120	301.0	149.1	19.02	149.1	301.0	149.1	19.02	149.1	110-120	189.2	12688	97.9,97.9
130	200.8	99.57	23.76	99.57	200.8	99.57	23.76	99.57	120-130	116.8	12804	98.8,98.8
140	134.7	74.03	28.55	74.03	134.7	74.03	28.55	74.03	130-140	71.66	12876	99.3,99.3
150	94.32	61.25	33.78	61.25	94.32	61.25	33.78	61.25	140-150	44.19	12920	99.7,99.7
160	70.42	52.21	38.56	52.21	70.42	52.21	38.56	52.21	150-160	26.67	12947	99.9,99.9
170	52.08	46.04	41.98	46.04	52.08	46.04	41.98	46.04	160-170	13.96	12961	100,100
180	38.96	43.30	44.22	43.30	38.96	43.30	44.22	43.30	170-180	4.237	12965	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 5720.1 lm

%lum = 44.1%

%lamp = 44.1%

Conical surface Flux(120deg): 8442.5 lm

%lum = 65.1%

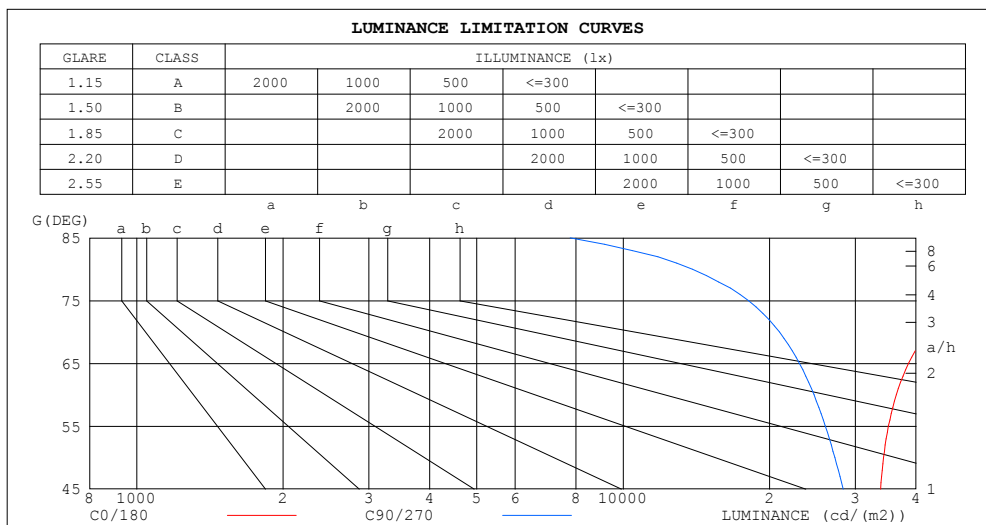
%lamp = 65.1%

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:0.3558A P:81.03W PF:0.9885 Freq:49.99Hz Lamp Flux:12965x1 lm		
NAME: T21CP-CC-80-1200K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:



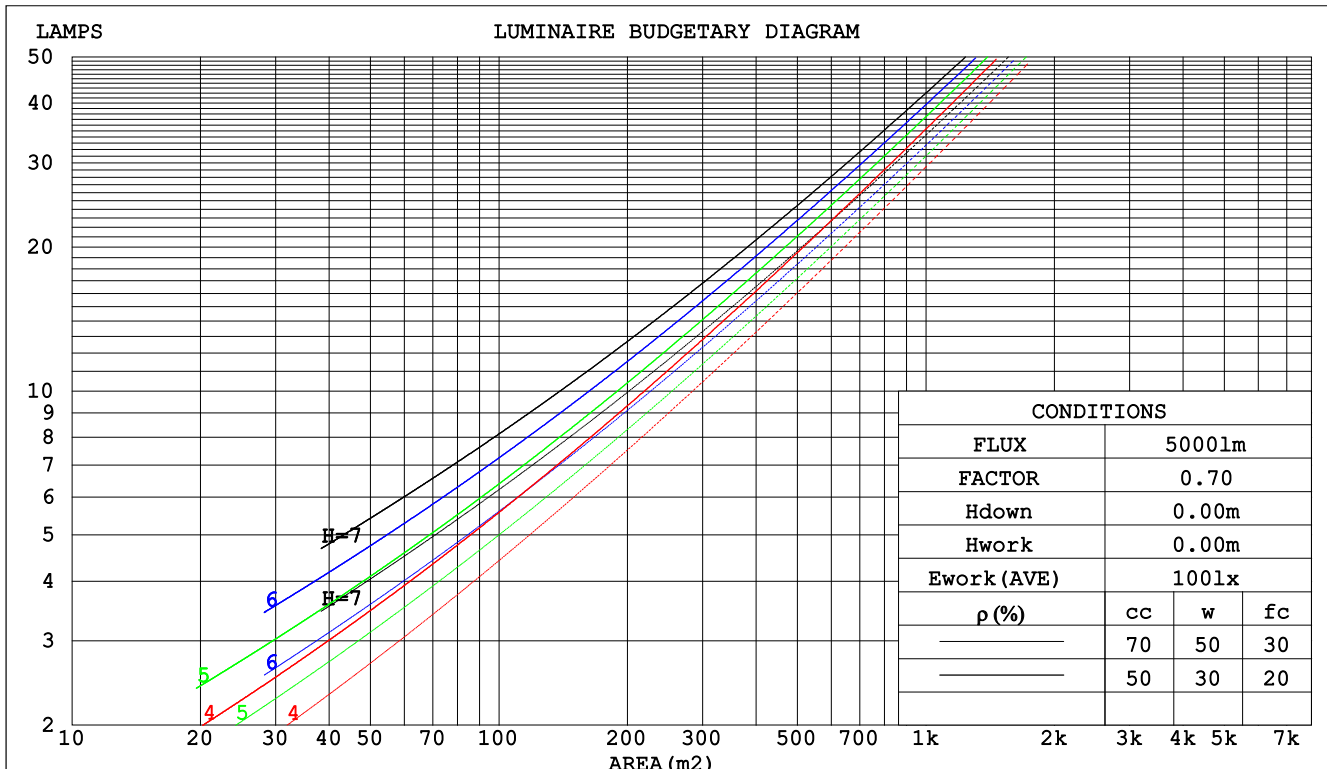
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QC
Test Date: 2020-04-30

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.4V I:0.3558A P:81.03W PF:0.9885 Freq:49.99Hz Lamp Flux:12965x1 lm		
NAME: T21CP-CC-80-1200K-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						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	.90
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	.49	.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:0.3558A P:81.03W PF:0.9885 Freq:49.99Hz Lamp Flux:12965x1 lm									
NAME: T21CP-CC-80-1200K-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	.187	.060	.309	.178	.057	.293	.170	.055	
2.0	.316	.173	.053	.307	.169	.052	.290	.161	.050	.274	.154	.048	.260	.147	.046	
3.0	.284	.151	.045	.276	.148	.045	.261	.142	.043	.247	.135	.042	.234	.130	.040	
4.0	.258	.134	.039	.251	.131	.039	.237	.126	.038	.225	.121	.036	.213	.116	.035	
5.0	.236	.120	.035	.230	.118	.034	.218	.113	.033	.206	.109	.032	.195	.104	.031	
6.0	.218	.109	.031	.212	.107	.031	.201	.103	.030	.190	.099	.029	.180	.095	.028	
7.0	.201	.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	.152	.075	.021	.145	.072	.020	.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	.225	.225	.225	.153	.153	.153	.088	.088	.088	.028	.028	.028	
1.0	.257	.229	.204	.220	.196	.175	.150	.135	.121	.086	.078	.071	.028	.025	.023	
2.0	.249	.205	.169	.213	.177	.146	.146	.122	.102	.084	.071	.060	.027	.023	.019	
3.0	.241	.188	.146	.207	.163	.127	.142	.113	.089	.082	.066	.052	.026	.021	.017	
4.0	.233	.176	.131	.200	.152	.114	.138	.106	.080	.080	.062	.048	.026	.020	.016	
5.0	.226	.165	.121	.194	.143	.105	.134	.100	.074	.077	.059	.044	.025	.019	.015	
6.0	.218	.157	.113	.188	.136	.099	.130	.095	.070	.075	.056	.042	.024	.018	.014	
7.0	.211	.151	.108	.182	.130	.094	.126	.091	.067	.073	.054	.040	.024	.018	.013	
8.0	.205	.145	.104	.176	.126	.090	.122	.088	.064	.071	.052	.038	.023	.017	.013	
9.0	.199	.140	.100	.171	.122	.088	.119	.085	.062	.069	.050	.037	.022	.017	.012	
10.0	.193	.136	.098	.166	.118	.085	.115	.083	.061	.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:0.3558A P:81.03W PF:0.9885 Freq:49.99Hz Lamp Flux:12965x1 lm										
NAME: T21CP-CC-80-1200K-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	15.7	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	22.8	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	16.9	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	18.9	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	18.4	17.9	18.9	19.5
6H	21.9	22.8	22.4	23.3	23.9	17.9	18.8	18.4	19.3	19.9
8H	22.8	23.6	23.3	24.1	24.7	18.0	18.9	18.6	19.4	20.0
12H	23.7	24.5	24.3	25.1	25.7	18.1	18.8	18.6	19.4	20.0
8H 4H	20.6	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	23.5	24.2	24.1	24.8	25.4	19.3	19.9	19.9	20.5	21.2
12H	24.8	25.3	25.4	25.9	26.6	19.5	20.1	20.1	20.7	21.3
12H 4H	20.7	21.4	21.2	22.0	22.6	18.5	19.2	19.0	19.8	20.4
6H	22.6	23.2	23.2	23.8	24.5	19.4	20.1	20.0	20.7	21.3
8H	23.7	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, 12965 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 8.9)

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:0.3558A P:81.03W PF:0.9885 Freq:49.99Hz Lamp Flux:12965x1 lm		
NAME: T21CP-CC-80-1200K-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				SHRNM = 1.25		

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

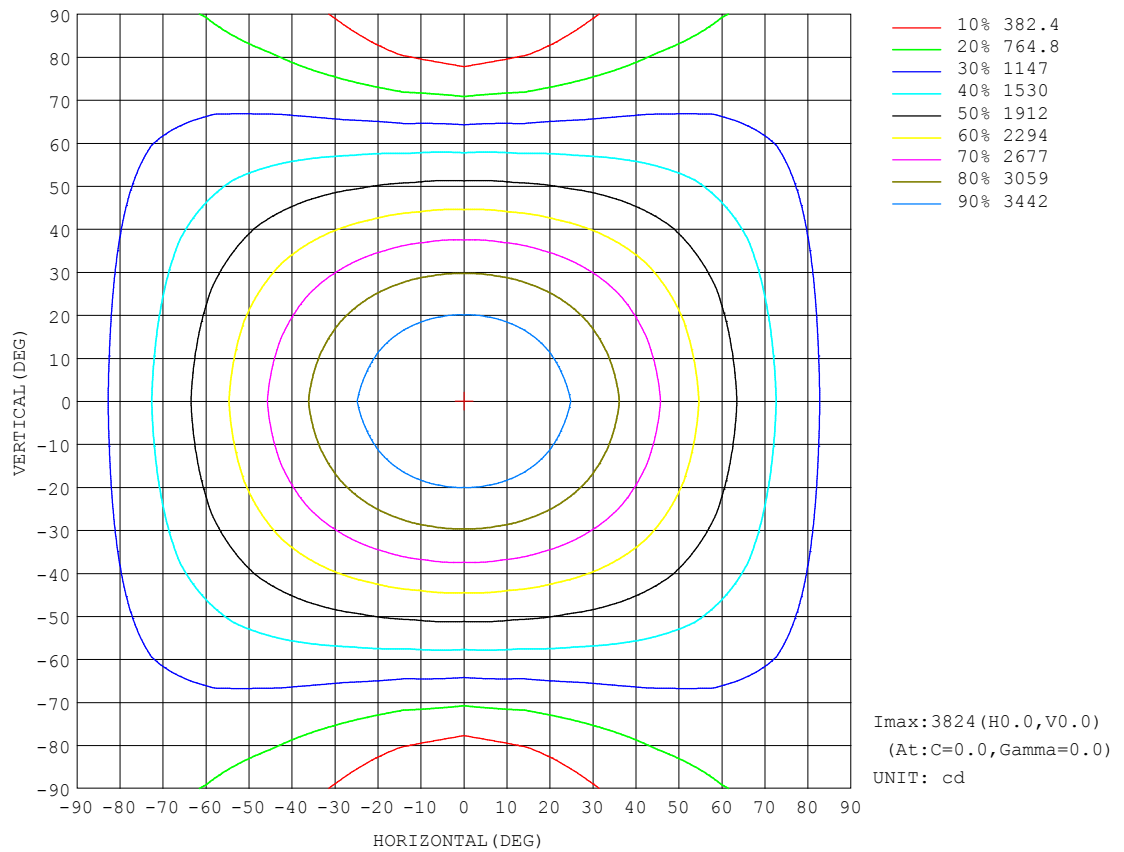
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

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ISOCANDELA DIAGRAM

Test:U:230.4V I:0.3558A P:81.03W PF:0.9885 Freq:49.99Hz Lamp Flux:12965x1 lm		
NAME: T21CP-CC-80-1200K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

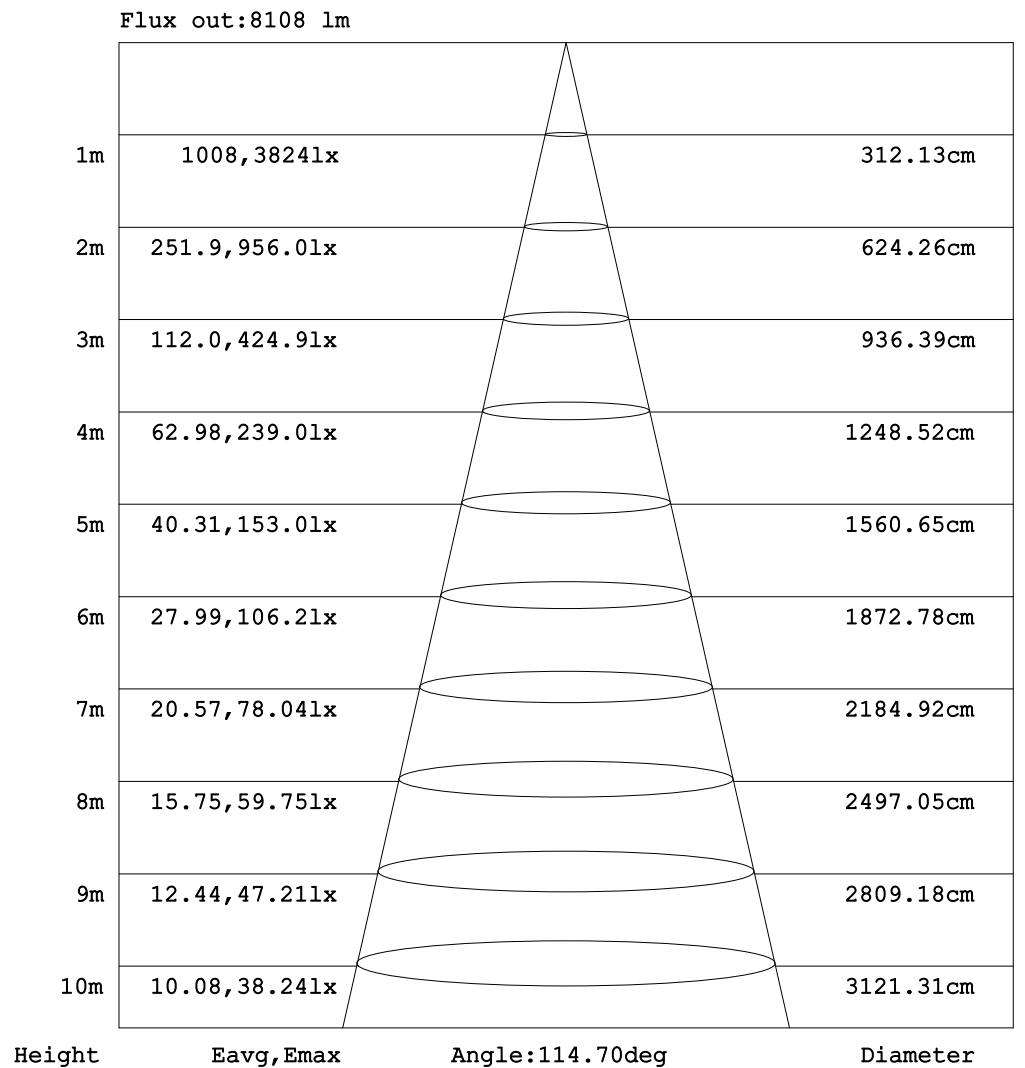


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2020-04-30

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:0.3558A P:81.03W PF:0.9885 Freq:49.99Hz Lamp Flux:12965x1 lm		
NAME: T21CP-CC-80-1200K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:



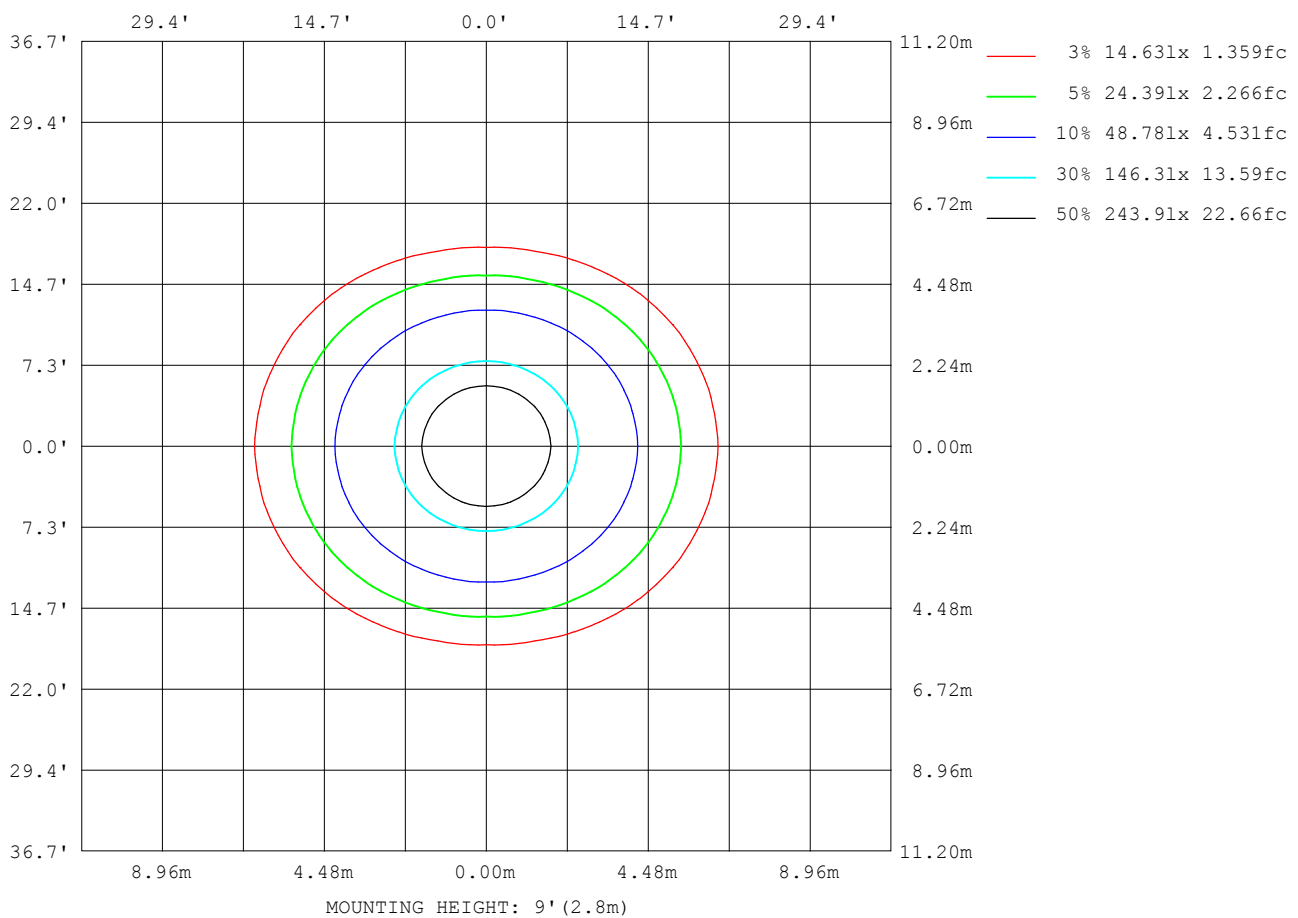
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.3558A P:81.03W PF:0.9885 Freq:49.99Hz Lamp Flux:12965x1 lm		
NAME: T21CP-CC-80-1200K-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:0.3558A P:81.03W PF:0.9885 Freq:49.99Hz Lamp Flux:12965x1 lm		
NAME: T21CP-CC-80-1200K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

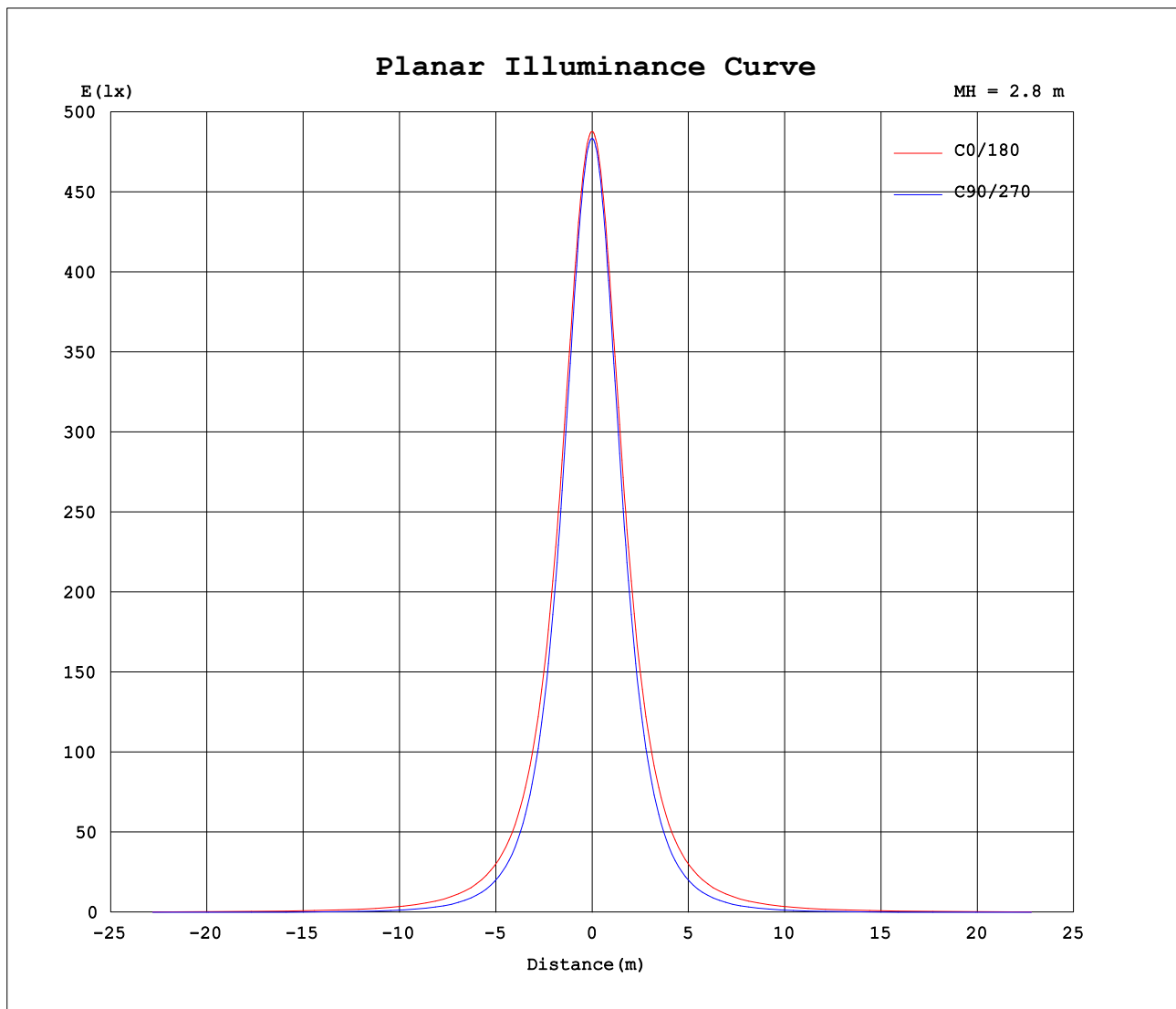
AvgL	cd/m2
L_0~180 (65) av	38326
L_0~180 (75) av	48613
L_0~180 (85) av	107703
L_90~270 (65) av	23063
L_90~270 (75) av	18129
L_90~270 (85) av	7787
L_45 (65) av	31365
L_45 (75) av	36471
L_45 (85) av	72821

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:0.3558A P:81.03W PF:0.9885 Freq:49.99Hz Lamp Flux:12965x1 lm																		
NAME: T21CP-CC-80-1200K-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	3795	3795	3795	3795	3795	3795	3795	3795	3795	3795	3795	3795	3795	3795	3795	3795	3795	3795	3795
5	3779	3779	3778	3776	3774	3773	3773	3773	3774	3776	3778	3779	3779	3779	3778	3776	3774	3773	3773
10	3731	3730	3725	3719	3712	3708	3706	3708	3712	3719	3725	3730	3731	3730	3725	3719	3712	3708	3706
15	3652	3649	3639	3625	3611	3600	3596	3600	3611	3625	3639	3649	3652	3649	3639	3625	3611	3600	3596
20	3544	3538	3521	3497	3472	3454	3447	3454	3472	3497	3521	3538	3544	3538	3521	3497	3472	3454	3447
25	3410	3401	3374	3337	3300	3273	3263	3273	3300	3337	3374	3401	3410	3401	3374	3337	3300	3273	3263
30	3254	3240	3202	3150	3099	3061	3047	3061	3099	3150	3202	3240	3254	3240	3202	3150	3099	3061	3047
35	3079	3060	3009	2940	2873	2824	2807	2824	2873	2940	3009	3060	3079	3060	3009	2940	2873	2824	2807
40	2889	2865	2801	2713	2628	2568	2546	2568	2628	2713	2801	2865	2889	2865	2801	2713	2628	2568	2546
45	2687	2658	2581	2475	2370	2296	2270	2296	2370	2475	2581	2658	2687	2658	2581	2475	2370	2296	2270
50	2477	2444	2354	2229	2104	2016	1984	2016	2104	2229	2354	2444	2477	2444	2354	2229	2104	2016	1984
55	2263	2226	2124	1982	1836	1730	1693	1730	1836	1982	2124	2226	2263	2226	2124	1982	1836	1730	1693
60	2047	2007	1896	1737	1572	1445	1398	1445	1572	1737	1896	2007	2047	2007	1896	1737	1572	1445	1398
65	1834	1791	1673	1501	1314	1163	1103	1163	1314	1501	1673	1791	1834	1791	1673	1501	1314	1163	1103
70	1625	1581	1458	1277	1072	892	812	892	1072	1277	1458	1581	1625	1581	1458	1277	1072	892	812
75	1424	1380	1256	1069	849	639	531	639	849	1069	1256	1380	1424	1380	1256	1069	849	639	531
80	1236	1193	1070	882	653	415	273	415	653	882	1070	1193	1236	1193	1070	882	653	415	273
85	1063	1021	903	718	491	244	76.8	244	491	718	903	1021	1063	1021	903	718	491	244	76.8
90	905	866	754	579	362	137	7.19	137	362	579	754	866	905	866	754	579	362	137	7.19
95	765	729	625	463	266	80.1	7.55	80.1	266	463	625	729	765	729	625	463	266	80.1	7.55
100	642	609	514	368	198	50.9	9.38	50.9	198	368	514	609	642	609	514	368	198	50.9	9.38
105	536	507	421	294	150	40.1	11.7	40.1	150	294	421	507	536	507	421	294	150	40.1	11.7
110	444	418	344	236	115	36.3	14.2	36.3	115	236	344	418	444	418	344	236	115	36.3	14.2
115	366	344	281	189	92.2	34.8	16.7	34.8	92.2	189	281	344	366	344	281	189	92.2	34.8	16.7
120	301	282	229	149	76.6	34.4	19.0	34.4	76.6	149	229	282	301	282	229	149	76.6	34.4	19.0
125	246	231	187	119	66.8	34.6	21.4	34.6	66.8	119	187	231	246	231	187	119	66.8	34.6	21.4
130	201	188	151	99.6	60.3	35.3	23.8	35.3	60.3	99.6	151	188	201	188	151	99.6	60.3	35.3	23.8
135	164	155	121	84.6	56.2	36.1	26.2	36.1	56.2	84.6	121	155	164	155	121	84.6	56.2	36.1	26.2
140	135	128	100	74.0	53.6	36.9	28.5	36.9	53.6	74.0	100	128	135	128	100	74.0	53.6	36.9	28.5
145	112	106	83.8	66.3	51.3	38.0	31.1	38.0	51.3	66.3	83.8	106	112	106	83.8	66.3	51.3	38.0	31.1
150	94.3	88.5	73.0	61.2	49.4	39.3	33.8	39.3	49.4	61.2	73.0	88.5	94.3	88.5	73.0	61.2	49.4	39.3	33.8
155	81.2	74.2	64.6	56.4	47.9	40.6	36.3	40.6	47.9	56.4	64.6	74.2	81.2	74.2	64.6	56.4	47.9	40.6	36.3
160	70.4	63.5	57.4	52.2	46.7	41.5	38.6	41.5	46.7	52.2	57.4	63.5	70.4	63.5	57.4	52.2	46.7	41.5	38.6
165	60.6	54.5	50.9	48.7	45.6	42.2	40.4	42.2	45.6	48.7	50.9	54.5	60.6	54.5	50.9	48.7	45.6	42.2	40.4
170	52.1	47.5	46.7	46.0	44.4	42.8	42.0	42.8	44.4	46.0	46.7	47.5	52.1	47.5	46.7	46.0	44.4	42.8	42.0
175	44.8	42.6	43.6	43.8	43.9	43.7	43.4	43.7	43.9	43.8	43.6	42.6	44.8	42.6	43.6	43.8	43.9	43.7	43.4
180	39.0	41.7	42.8	43.3	44.0	44.3	44.2	44.3	44.0	43.3	42.8	41.7	39.0	41.7	42.8	43.3	44.0	44.3	44.2

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:0.3558A P:81.03W PF:0.9885 Freq:49.99Hz Lamp Flux:12965x1 lm		
NAME: T21CP-CC-80-1200K-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	3795	3795	3795	3795	3795													
5	3773	3774	3776	3778	3779													
10	3708	3712	3719	3725	3730													
15	3600	3611	3625	3639	3649													
20	3454	3472	3497	3521	3538													
25	3273	3300	3337	3374	3401													
30	3061	3099	3150	3202	3240													
35	2824	2873	2940	3009	3060													
40	2568	2628	2713	2801	2865													
45	2296	2370	2475	2581	2658													
50	2016	2104	2229	2354	2444													
55	1730	1836	1982	2124	2226													
60	1445	1572	1737	1896	2007													
65	1163	1314	1501	1673	1791													
70	892	1072	1277	1458	1581													
75	639	849	1069	1256	1380													
80	415	653	882	1070	1193													
85	244	491	718	903	1021													
90	137	362	579	754	866													
95	80.1	266	463	625	729													
100	50.9	198	368	514	609													
105	40.1	150	294	421	507													
110	36.3	115	236	344	418													
115	34.8	92.2	189	281	344													
120	34.4	76.6	149	229	282													
125	34.6	66.8	119	187	231													
130	35.3	60.3	99.6	151	188													
135	36.1	56.2	84.6	121	155													
140	36.9	53.6	74.0	100	128													
145	38.0	51.3	66.3	83.8	106													
150	39.3	49.4	61.2	73.0	88.5													
155	40.6	47.9	56.4	64.6	74.2													
160	41.5	46.7	52.2	57.4	63.5													
165	42.2	45.6	48.7	50.9	54.5													
170	42.8	44.4	46.0	46.7	47.5													
175	43.7	43.9	43.8	43.6	42.6													
180	44.3	44.0	43.3	42.8	41.7													

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	3795	3795	3795	3795	3795	3795	3795	3795	3795	3795
3.0	3790	3789	3789	3788	3788	3787	3787	3787	3788	3788
6.0	3772	3772	3770	3768	3765	3763	3763	3763	3765	3768
9.0	3743	3742	3739	3734	3728	3724	3723	3724	3728	3734
12.0	3703	3701	3695	3686	3676	3669	3667	3669	3676	3686
15.0	3652	3649	3639	3625	3611	3600	3596	3600	3611	3625
18.0	3591	3586	3572	3552	3532	3517	3511	3517	3532	3552
21.0	3519	3513	3494	3467	3441	3421	3413	3421	3441	3467
24.0	3439	3430	3405	3371	3337	3312	3302	3312	3337	3371
27.0	3350	3339	3307	3265	3223	3192	3180	3192	3223	3265
30.0	3254	3240	3202	3150	3099	3061	3047	3061	3099	3150
33.0	3151	3134	3088	3026	2965	2922	2905	2922	2965	3026
36.0	3042	3022	2969	2896	2825	2774	2756	2774	2825	2896
39.0	2928	2905	2844	2760	2678	2620	2599	2620	2678	2760
42.0	2809	2784	2714	2619	2526	2461	2437	2461	2526	2619
45.0	2687	2658	2581	2475	2370	2296	2270	2296	2370	2475
48.0	2562	2531	2446	2328	2211	2129	2100	2129	2211	2328
51.0	2434	2401	2308	2180	2051	1959	1926	1959	2051	2180
54.0	2306	2270	2170	2031	1890	1788	1752	1788	1890	2031
57.0	2176	2138	2032	1883	1730	1616	1575	1616	1730	1883
60.0	2047	2007	1896	1737	1572	1445	1398	1445	1572	1737
63.0	1919	1878	1761	1594	1416	1275	1222	1275	1416	1594
66.0	1791	1749	1630	1455	1265	1108	1045	1108	1265	1455
69.0	1666	1622	1500	1320	1118	945.1	870.1	945.1	1118	1320
72.0	1543	1499	1375	1191	979.4	787.5	697.8	787.5	979.4	1191
75.0	1424	1380	1256	1069	849.0	638.5	531.1	638.5	849.0	1069
78.0	1309	1267	1143	953.7	727.6	500.2	370.6	500.2	727.6	953.7
81.0	1200	1158	1035	847.3	617.0	374.9	228.4	374.9	617.0	847.3
84.0	1096	1054	934.6	749.1	519.9	272.1	108.3	272.1	519.9	749.1
87.0	997.7	957.4	840.9	659.8	435.6	194.2	29.69	194.2	435.6	659.8
90.0	905.3	866.1	753.9	579.0	361.8	137.1	7.189	137.1	361.8	579.0
93.0	818.9	781.5	674.0	506.9	300.9	97.87	6.955	97.87	300.9	506.9
96.0	738.9	703.3	601.0	442.1	250.8	72.89	7.880	72.89	250.8	442.1
99.0	665.2	631.7	535.0	385.4	209.9	55.21	8.975	55.21	209.9	385.4
102.0	597.7	566.1	475.4	336.5	177.0	45.21	10.25	45.21	177.0	336.5
105.0	535.9	506.6	421.1	294.2	150.3	40.08	11.70	40.08	150.3	294.2
108.0	479.9	452.2	373.1	257.4	125.6	37.53	13.23	37.53	125.6	257.4
111.0	427.1	402.2	330.6	225.6	109.8	35.88	14.70	35.88	109.8	225.6
114.0	380.9	357.9	292.5	197.5	96.17	35.11	16.20	35.11	96.17	197.5
117.0	338.8	317.9	259.0	172.3	84.87	34.48	17.61	34.48	84.87	172.3
120.0	301.0	282.1	229.1	149.1	76.61	34.35	19.02	34.35	76.61	149.1
123.0	267.0	250.1	202.9	128.2	70.19	34.43	20.45	34.43	70.19	128.2
126.0	236.7	221.5	180.0	114.8	65.22	34.72	21.86	34.72	65.22	114.8
129.0	209.0	196.1	157.9	102.9	61.36	35.18	23.28	35.18	61.36	102.9
132.0	185.2	174.0	138.0	93.04	58.27	35.61	24.72	35.61	58.27	93.04
135.0	164.3	154.7	121.4	84.60	56.24	36.11	26.18	36.11	56.24	84.60
138.0	145.7	137.7	107.7	77.81	54.62	36.58	27.58	36.58	54.62	77.81
141.0	129.6	122.9	96.53	72.28	53.11	37.06	29.05	37.06	53.11	72.28
144.0	115.8	110.1	86.71	67.53	51.68	37.76	30.57	37.76	51.68	67.53
147.0	104.1	98.87	78.89	64.35	50.49	38.49	32.16	38.49	50.49	64.35
150.0	94.32	88.49	72.99	61.25	49.42	39.33	33.78	39.33	49.42	61.25
153.0	86.05	79.64	67.73	58.22	48.47	40.12	35.35	40.12	48.47	58.22
156.0	78.90	71.86	63.21	55.53	47.66	40.81	36.82	40.81	47.66	55.53
159.0	72.47	65.49	58.85	53.00	46.92	41.33	38.16	41.33	46.92	53.00
162.0	66.41	59.69	54.65	50.68	46.27	41.78	39.36	41.78	46.27	50.68
165.0	60.63	54.45	50.87	48.69	45.64	42.16	40.40	42.16	45.64	48.69
168.0	55.20	49.91	48.01	47.03	44.88	42.51	41.35	42.51	44.88	47.03
171.0	50.66	46.42	46.11	45.52	44.27	43.01	42.34	43.01	44.27	45.52
174.0	46.36	43.42	44.05	44.18	44.01	43.53	43.19	43.53	44.01	44.18
177.0	40.97	41.67	43.35	43.83	43.87	43.75	43.87	43.87	43.83	43.35
180.0	38.96	41.65	42.76	43.30	43.99	44.26	44.22	44.26	43.99	43.30
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	3795	3795	3795	3795	3795	3795	3795	3795	3795	3795
3.0	3789	3789	3790	3789	3789	3788	3788	3787	3787	3787
6.0	3770	3772	3772	3772	3770	3768	3765	3763	3763	3763
9.0	3739	3742	3743	3742	3739	3734	3728	3724	3723	3724
12.0	3695	3701	3703	3701	3695	3686	3676	3669	3667	3669
15.0	3639	3649	3652	3649	3639	3625	3611	3600	3596	3600
18.0	3572	3586	3591	3586	3572	3552	3532	3517	3511	3517
21.0	3494	3513	3519	3513	3494	3467	3441	3421	3413	3421
24.0	3405	3430	3439	3430	3405	3371	3337	3312	3302	3312
27.0	3307	3339	3350	3339	3307	3265	3223	3192	3180	3192
30.0	3202	3240	3254	3240	3202	3150	3099	3061	3047	3061

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	3088	3134	3151	3134	3088	3026	2965	2922	2905	2922
36.0	2969	3022	3042	3022	2969	2896	2825	2774	2756	2774
39.0	2844	2905	2928	2905	2844	2760	2678	2620	2599	2620
42.0	2714	2784	2809	2784	2714	2619	2526	2461	2437	2461
45.0	2581	2658	2687	2658	2581	2475	2370	2296	2270	2296
48.0	2446	2531	2562	2531	2446	2328	2211	2129	2100	2129
51.0	2308	2401	2434	2401	2308	2180	2051	1959	1926	1959
54.0	2170	2270	2306	2270	2170	2031	1890	1788	1752	1788
57.0	2032	2138	2176	2138	2032	1883	1730	1616	1575	1616
60.0	1896	2007	2047	2007	1896	1737	1572	1445	1398	1445
63.0	1761	1878	1919	1878	1761	1594	1416	1275	1222	1275
66.0	1630	1749	1791	1749	1630	1455	1265	1108	1045	1108
69.0	1500	1622	1666	1622	1500	1320	1118	945.1	870.1	945.1
72.0	1375	1499	1543	1499	1375	1191	979.4	787.5	697.8	787.5
75.0	1256	1380	1424	1380	1256	1069	849.0	638.5	531.1	638.5
78.0	1143	1267	1309	1267	1143	953.7	727.6	500.2	370.6	500.2
81.0	1035	1158	1200	1158	1035	847.3	617.0	374.9	228.4	374.9
84.0	934.6	1054	1096	1054	934.6	749.1	519.9	272.1	108.3	272.1
87.0	840.9	957.4	997.7	957.4	840.9	659.8	435.6	194.2	29.69	194.2
90.0	753.9	866.1	905.3	866.1	753.9	579.0	361.8	137.1	7.189	137.1
93.0	674.0	781.5	818.9	781.5	674.0	506.9	300.9	97.87	6.955	97.87
96.0	601.0	703.3	738.9	703.3	601.0	442.1	250.8	72.89	7.880	72.89
99.0	535.0	631.7	665.2	631.7	535.0	385.4	209.9	55.21	8.975	55.21
102.0	475.4	566.1	597.7	566.1	475.4	336.5	177.0	45.21	10.25	45.21
105.0	421.1	506.6	535.9	506.6	421.1	294.2	150.3	40.08	11.70	40.08
108.0	373.1	452.2	479.9	452.2	373.1	257.4	125.6	37.53	13.23	37.53
111.0	330.6	402.2	427.1	402.2	330.6	225.6	109.8	35.88	14.70	35.88
114.0	292.5	357.9	380.9	357.9	292.5	197.5	96.17	35.11	16.20	35.11
117.0	259.0	317.9	338.8	317.9	259.0	172.3	84.87	34.48	17.61	34.48
120.0	229.1	282.1	301.0	282.1	229.1	149.1	76.61	34.35	19.02	34.35
123.0	202.9	250.1	267.0	250.1	202.9	128.2	70.19	34.43	20.45	34.43
126.0	180.0	221.5	236.7	221.5	180.0	114.8	65.22	34.72	21.86	34.72
129.0	157.9	196.1	209.0	196.1	157.9	102.9	61.36	35.18	23.28	35.18
132.0	138.0	174.0	185.2	174.0	138.0	93.04	58.27	35.61	24.72	35.61
135.0	121.4	154.7	164.3	154.7	121.4	84.60	56.24	36.11	26.18	36.11
138.0	107.7	137.7	145.7	137.7	107.7	77.81	54.62	36.58	27.58	36.58
141.0	96.53	122.9	129.6	122.9	96.53	72.28	53.11	37.06	29.05	37.06
144.0	86.71	110.1	115.8	110.1	86.71	67.53	51.68	37.76	30.57	37.76
147.0	78.89	98.87	104.1	98.87	78.89	64.35	50.49	38.49	32.16	38.49
150.0	72.99	88.49	94.32	88.49	72.99	61.25	49.42	39.33	33.78	39.33
153.0	67.73	79.64	86.05	79.64	67.73	58.22	48.47	40.12	35.35	40.12
156.0	63.21	71.86	78.90	71.86	63.21	55.53	47.66	40.81	36.82	40.81
159.0	58.85	65.49	72.47	65.49	58.85	53.00	46.92	41.33	38.16	41.33
162.0	54.65	59.69	66.41	59.69	54.65	50.68	46.27	41.78	39.36	41.78
165.0	50.87	54.45	60.63	54.45	50.87	48.69	45.64	42.16	40.40	42.16
168.0	48.01	49.91	55.20	49.91	48.01	47.03	44.88	42.51	41.35	42.51
171.0	46.11	46.42	50.66	46.42	46.11	45.52	44.27	43.01	42.34	43.01
174.0	44.05	43.42	46.36	43.42	44.05	44.18	44.01	43.53	43.19	43.53
177.0	42.96	41.67	40.97	41.67	42.96	43.35	43.83	43.87	43.75	43.87
180.0	42.76	41.65	38.96	41.65	42.76	43.30	43.99	44.26	44.22	44.26
G/C	300.0	315.0	330.0	345.0						
0.0	3795	3795	3795	3795						
3.0	3788	3788	3789	3789						
6.0	3765	3768	3770	3772						
9.0	3728	3734	3739	3742						
12.0	3676	3686	3695	3701						
15.0	3611	3625	3639	3649						
18.0	3532	3552	3572	3586						
21.0	3441	3467	3494	3513						
24.0	3337	3371	3405	3430						
27.0	3223	3265	3307	3339						
30.0	3099	3150	3202	3240						
33.0	2965	3026	3088	3134						
36.0	2825	2896	2969	3022						
39.0	2678	2760	2844	2905						
42.0	2526	2619	2714	2784						
45.0	2370	2475	2581	2658						
48.0	2211	2328	2446	2531						
51.0	2051	2180	2308	2401						
54.0	1890	2031	2170	2270						
57.0	1730	1883	2032	2138						
60.0	1572	1737	1896	2007						
63.0	1416	1594	1761	1878						
66.0	1265	1455	1630	1749						

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	1118	1320	1500	1622
72.0	979.4	1191	1375	1499
75.0	849.0	1069	1256	1380
78.0	727.6	953.7	1143	1267
81.0	617.0	847.3	1035	1158
84.0	519.9	749.1	934.6	1054
87.0	435.6	659.8	840.9	957.4
90.0	361.8	579.0	753.9	866.1
93.0	300.9	506.9	674.0	781.5
96.0	250.8	442.1	601.0	703.3
99.0	209.9	385.4	535.0	631.7
102.0	177.0	336.5	475.4	566.1
105.0	150.3	294.2	421.1	506.6
108.0	125.6	257.4	373.1	452.2
111.0	109.8	225.6	330.6	402.2
114.0	96.17	197.5	292.5	357.9
117.0	84.87	172.3	259.0	317.9
120.0	76.61	149.1	229.1	282.1
123.0	70.19	128.2	202.9	250.1
126.0	65.22	114.8	180.0	221.5
129.0	61.36	102.9	157.9	196.1
132.0	58.27	93.04	138.0	174.0
135.0	56.24	84.60	121.4	154.7
138.0	54.62	77.81	107.7	137.7
141.0	53.11	72.28	96.53	122.9
144.0	51.68	67.53	86.71	110.1
147.0	50.49	64.35	78.89	98.87
150.0	49.42	61.25	72.99	88.49
153.0	48.47	58.22	67.73	79.64
156.0	47.66	55.53	63.21	71.86
159.0	46.92	53.00	58.85	65.49
162.0	46.27	50.68	54.65	59.69
165.0	45.64	48.69	50.87	54.45
168.0	44.88	47.03	48.01	49.91
171.0	44.27	45.52	46.11	46.42
174.0	44.01	44.18	44.05	43.42
177.0	43.83	43.35	42.96	41.67
180.0	43.99	43.30	42.76	41.65

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: