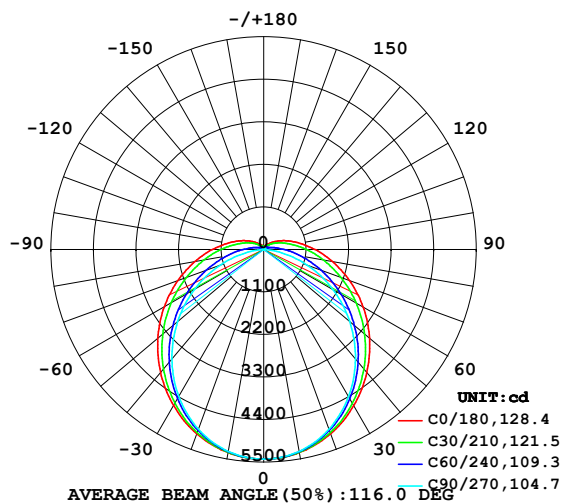


LUMINAIRE PHOTOMETRIC TEST REPORT

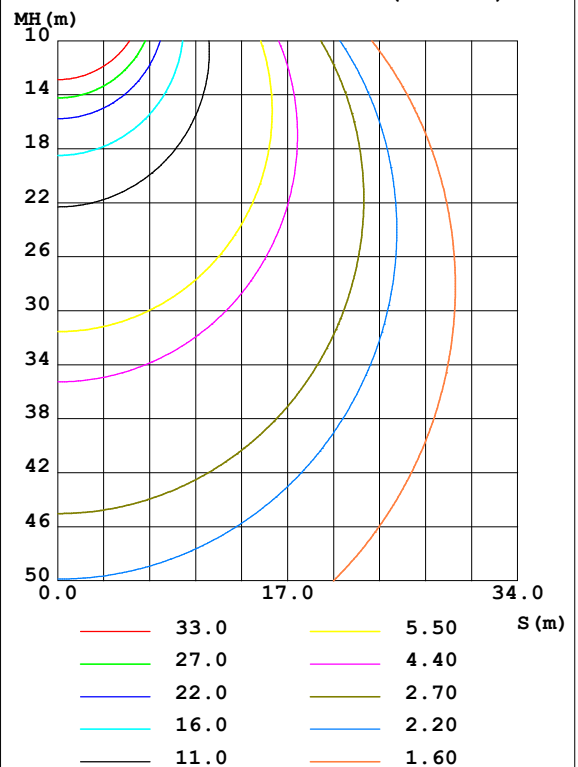
Test:U:230.3V I:0.5187A P:117.9W PF:0.9870 Freq:49.99Hz Lamp Flux:18801.7x1 lm		
NAME: T21CP-CC-120-1500K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 159.45 lm/W			
MODEL		I _{max} (cd)	5424	S/MH (C0/180)	1.28
NOMINAL POWER (W)	11	LOR (%)	100.0	S/MH (C90/270)	1.21
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	18802	η UP, DN (C0-180)	4.8, 45.2
NOMINAL FLUX (lm)	18801.7	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	5333	5318	5300	5318	5333	5318	5300	5318	0- 10	512.7	512.7	2.73,2.73
20	5071	5008	4945	5008	5071	5008	4945	5008	10- 20	1463	1976	10.5,10.5
30	4662	4522	4391	4522	4662	4522	4391	4522	20- 30	2205	4182	22.2,22.2
40	4151	3913	3695	3913	4151	3913	3695	3913	30- 40	2650	6831	36.3,36.3
50	3576	3235	2908	3235	3576	3235	2908	3235	40- 50	2768	9599	51.1,51.1
60	2969	2541	2068	2541	2969	2541	2068	2541	50- 60	2582	12181	64.8,64.8
70	2364	1877	1211	1877	2364	1877	1211	1877	60- 70	2159	14340	76.3,76.3
80	1802	1297	411.7	1297	1802	1297	411.7	1297	70- 80	1603	15943	84.8,84.8
90	1327	850.8	9.294	850.8	1327	850.8	9.294	850.8	80- 90	1065	17008	90.5,90.5
100	949.8	540.5	13.68	540.5	949.8	540.5	13.68	540.5	90-100	687.0	17695	94.1,94.1
110	664.3	344.0	19.15	344.0	664.3	344.0	19.15	344.0	100-110	442.8	18138	96.5,96.5
120	447.9	209.9	25.07	209.9	447.9	209.9	25.07	209.9	110-120	276.9	18415	97.9,97.9
130	291.3	136.2	31.18	136.2	291.3	136.2	31.18	136.2	120-130	166.8	18582	98.8,98.8
140	188.4	101.4	38.02	101.4	188.4	101.4	38.02	101.4	130-140	99.18	18681	99.4,99.4
150	128.8	83.73	44.78	83.73	128.8	83.73	44.78	83.73	140-150	60.32	18741	99.7,99.7
160	95.45	72.44	50.56	72.44	95.45	72.44	50.56	72.44	150-160	36.21	18777	99.9,99.9
170	69.71	60.47	54.46	60.47	69.71	60.47	54.46	60.47	160-170	18.75	18796	100,100
180	53.06	55.77	56.76	55.77	53.06	55.77	56.76	55.77	170-180	5.543	18802	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 8220.6 lm

%lum = 43.7%

%lamp = 43.7%

Conical surface Flux(120deg): 12181 lm

%lum = 64.8%

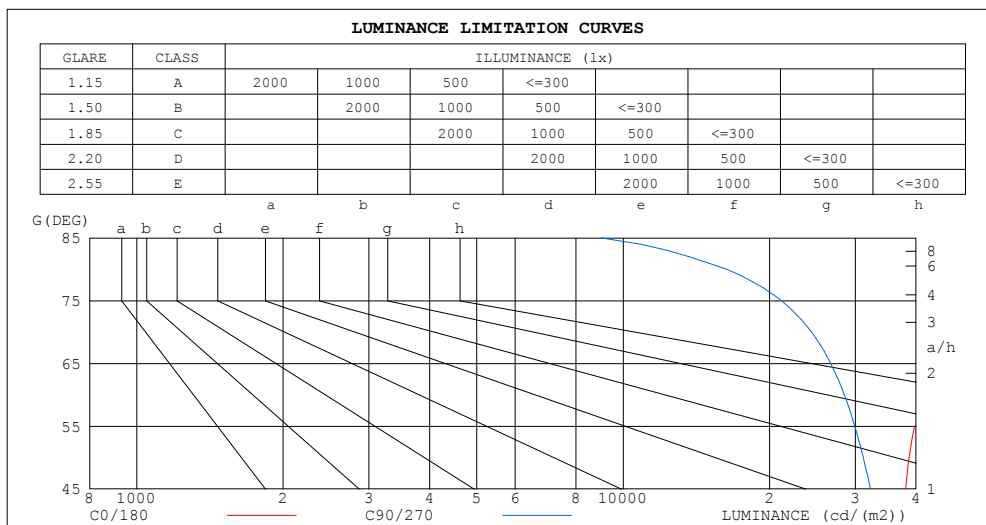
%lamp = 64.8%

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:

LUMINANCE LIMITATION CURVES

Test:U:230.3V I:0.5187A P:117.9W PF:0.9870 Freq:49.99Hz Lamp Flux:18801.7x1 lm		
NAME: T21CP-CC-120-1500K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	124004	8996
80	72224	16331
75	55770	21153
70	48096	24398
65	43865	26713
60	41324	28487
55	39735	29935
50	38721	31159
45	38089	32248

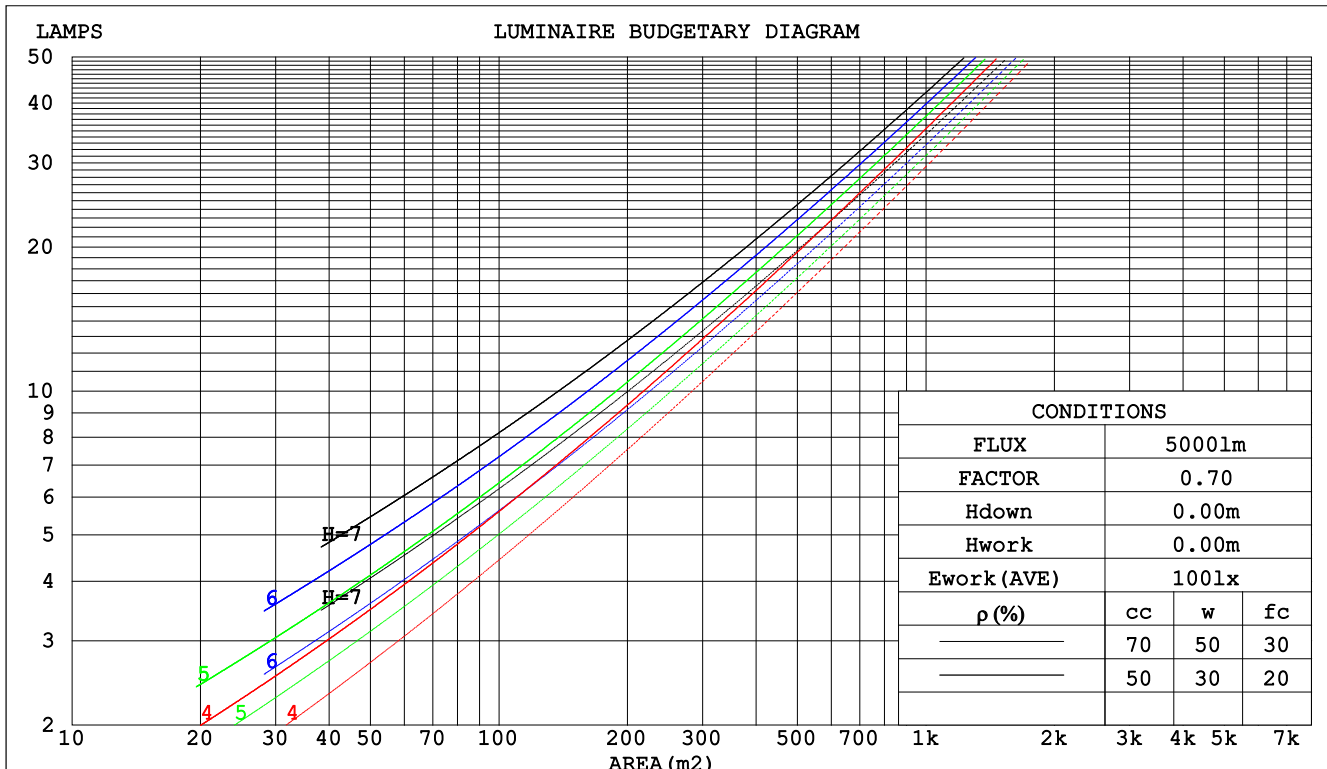
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2020-04-30

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:230.3V I:0.5187A P:117.9W PF:0.9870 Freq:49.99Hz Lamp Flux:18801.7x1 lm		
NAME: T21CP-CC-120-1500K-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	.90
1.0	.99	.94	.90	.96	.91	.87	.90	.86	.83	.84	.81	.78	.79	.77	.75	.72
2.0	.85	.78	.72	.83	.76	.70	.78	.72	.67	.73	.68	.64	.68	.65	.61	.58
3.0	.75	.66	.59	.72	.64	.58	.68	.61	.56	.64	.58	.53	.60	.55	.51	.49
4.0	.66	.57	.50	.64	.55	.49	.60	.53	.47	.57	.50	.45	.53	.48	.44	.41
5.0	.59	.49	.42	.57	.48	.42	.54	.46	.40	.51	.44	.39	.48	.42	.38	.35
6.0	.53	.44	.37	.51	.43	.36	.48	.41	.35	.46	.39	.34	.43	.38	.33	.31
7.0	.48	.39	.32	.46	.38	.32	.44	.37	.31	.42	.35	.30	.40	.34	.29	.27
8.0	.43	.35	.29	.42	.34	.28	.40	.33	.28	.38	.32	.27	.36	.31	.26	.24
9.0	.40	.32	.26	.39	.31	.26	.37	.30	.25	.35	.29	.24	.34	.28	.24	.22
10.0	.37	.29	.23	.36	.28	.23	.34	.27	.23	.33	.26	.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:230.3V I:0.5187A P:117.9W PF:0.9870 Freq:49.99Hz Lamp Flux:18801.7x1 lm		
NAME: T21CP-CC-120-1500K-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	.358	.203	.064	.348	.198	.063	.329	.189	.060	.311	.180	.058	.295	.171	.055		
2.0	.317	.174	.053	.308	.170	.052	.291	.162	.050	.276	.155	.048	.261	.148	.047		
3.0	.286	.152	.046	.277	.149	.045	.262	.142	.043	.248	.136	.042	.235	.130	.040		
4.0	.259	.135	.040	.252	.132	.039	.238	.126	.038	.226	.121	.037	.214	.116	.035		
5.0	.237	.121	.035	.231	.118	.034	.218	.114	.033	.207	.109	.032	.196	.105	.031		
6.0	.218	.109	.031	.212	.107	.031	.201	.103	.030	.191	.099	.029	.181	.095	.028		
7.0	.202	.100	.028	.197	.098	.028	.186	.094	.027	.177	.091	.026	.168	.087	.026		
8.0	.188	.092	.026	.183	.090	.025	.174	.087	.025	.165	.084	.024	.157	.081	.023		
9.0	.175	.085	.024	.171	.083	.023	.163	.080	.023	.155	.078	.022	.147	.075	.022		
10.0	.165	.079	.022	.160	.078	.022	.153	.075	.021	.145	.072	.021	.139	.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	.154	.154	.154	.088	.088	.088	.028	.028	.028	
1.0	.257	.229	.204	.220	.197	.175	.150	.135	.121	.087	.078	.071	.028	.025	.023	
2.0	.249	.206	.169	.214	.177	.146	.146	.122	.102	.084	.071	.060	.027	.023	.019	
3.0	.242	.189	.146	.207	.163	.127	.142	.113	.089	.082	.066	.052	.026	.021	.017	
4.0	.234	.176	.131	.201	.152	.114	.138	.106	.080	.080	.062	.048	.026	.020	.016	
5.0	.226	.166	.121	.194	.143	.105	.134	.100	.074	.078	.059	.044	.025	.019	.015	
6.0	.219	.157	.113	.188	.136	.099	.130	.095	.070	.075	.056	.042	.024	.018	.014	
7.0	.212	.151	.108	.182	.131	.094	.126	.092	.067	.073	.054	.040	.024	.018	.013	
8.0	.205	.145	.104	.177	.126	.090	.122	.088	.064	.071	.052	.038	.023	.017	.013	
9.0	.199	.140	.100	.171	.122	.088	.119	.086	.062	.069	.051	.037	.022	.017	.012	
10.0	.193	.136	.098	.166	.118	.085	.116	.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:230.3V I:0.5187A P:117.9W PF:0.9870 Freq:49.99Hz Lamp Flux:18801.7x1 lm										
NAME: T21CP-CC-120-1500K-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	15.1	16.5	15.5	16.9	17.3	13.5	15.0	13.9	15.3	15.7
3H	17.4	18.7	17.8	19.1	19.5	14.9	16.2	15.3	16.6	17.0
4H	18.6	19.8	19.0	20.3	20.7	15.4	16.6	15.8	17.1	17.5
6H	19.9	21.1	20.4	21.5	22.0	15.7	16.9	16.2	17.3	17.8
8H	20.6	21.8	21.1	22.2	22.7	15.7	16.9	16.2	17.4	17.8
12H	21.5	22.6	22.0	23.0	23.6	15.8	16.9	16.2	17.3	17.8
4H 2H	15.6	16.9	16.0	17.3	17.7	14.4	15.7	14.9	16.1	16.6
3H	18.1	19.2	18.6	19.7	20.2	16.0	17.1	16.5	17.6	18.1
4H	19.5	20.5	20.0	21.0	21.6	16.7	17.7	17.2	18.2	18.7
6H	21.1	22.0	21.6	22.5	23.1	17.2	18.1	17.7	18.6	19.2
8H	21.9	22.8	22.5	23.3	23.9	17.3	18.1	17.8	18.7	19.3
12H	22.9	23.7	23.5	24.3	24.9	17.3	18.1	17.9	18.7	19.3
8H 4H	19.8	20.7	20.4	21.2	21.8	17.5	18.3	18.0	18.9	19.5
6H	21.7	22.4	22.2	22.9	23.6	18.3	19.0	18.9	19.6	20.2
8H	22.7	23.4	23.3	24.0	24.6	18.6	19.2	19.2	19.8	20.5
12H	24.0	24.5	24.6	25.1	25.8	18.8	19.3	19.4	19.9	20.6
12H 4H	19.8	20.6	20.4	21.2	21.8	17.7	18.5	18.3	19.1	19.7
6H	21.8	22.4	22.4	23.0	23.6	18.7	19.3	19.3	19.9	20.6
8H	22.9	23.5	23.5	24.1	24.8	19.2	19.7	19.8	20.3	21.0
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, 18802 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 10.2)

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:

UTILIZATION FACTORS TABLE

Test:U:230.3V I:0.5187A P:117.9W PF:0.9870 Freq:49.99Hz Lamp Flux:18801.7x1 lm		
NAME: T21CP-CC-120-1500K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

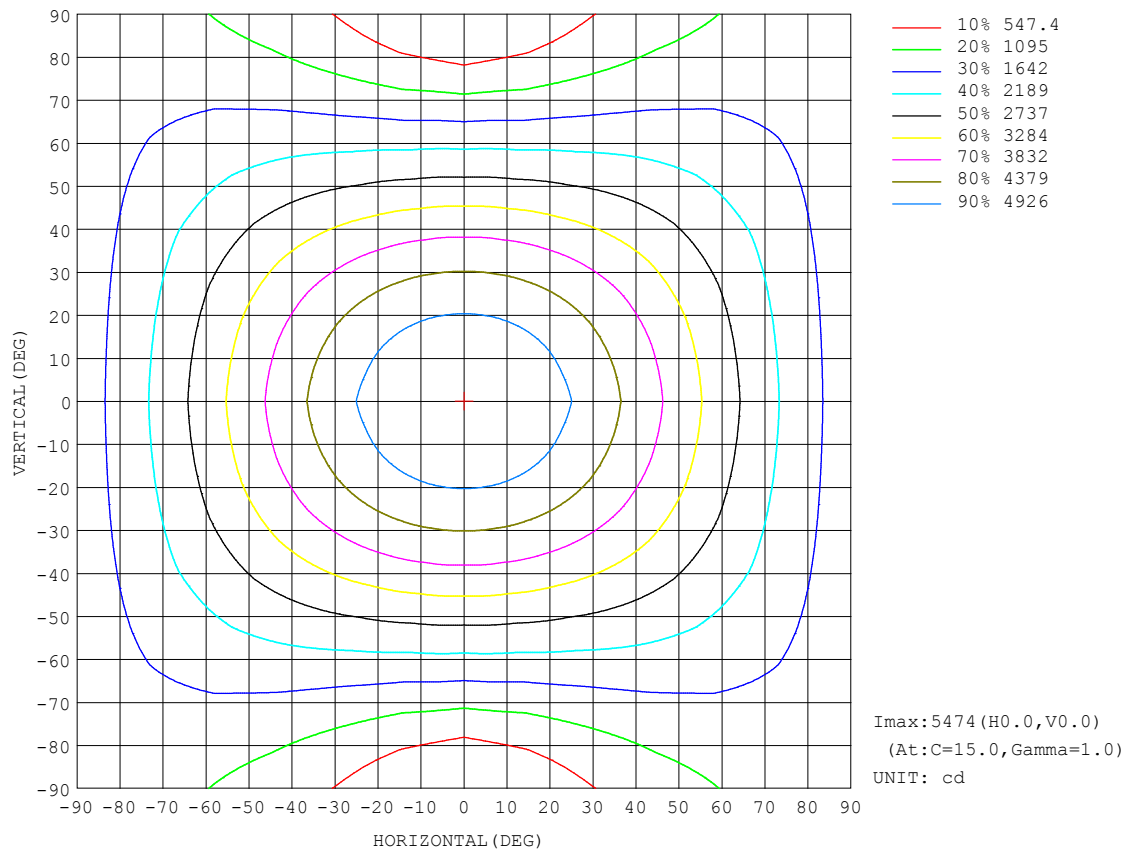
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	52	40	33	52	40	33	50	39	33	26
0.80	62	50	42	61	49	42	58	48	41	34
1.00	70	58	50	68	57	49	65	58	49	41
1.25	77	65	57	75	64	56	71	62	55	47
1.50	82	71	63	80	69	62	76	67	60	51
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	81	94	86	80	88	82	77	66
4.00	101	94	88	98	91	86	92	87	82	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:230.3V I:0.5187A P:117.9W PF:0.9870 Freq:49.99Hz Lamp Flux:18801.7x1 lm		
NAME: T21CP-CC-120-1500K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

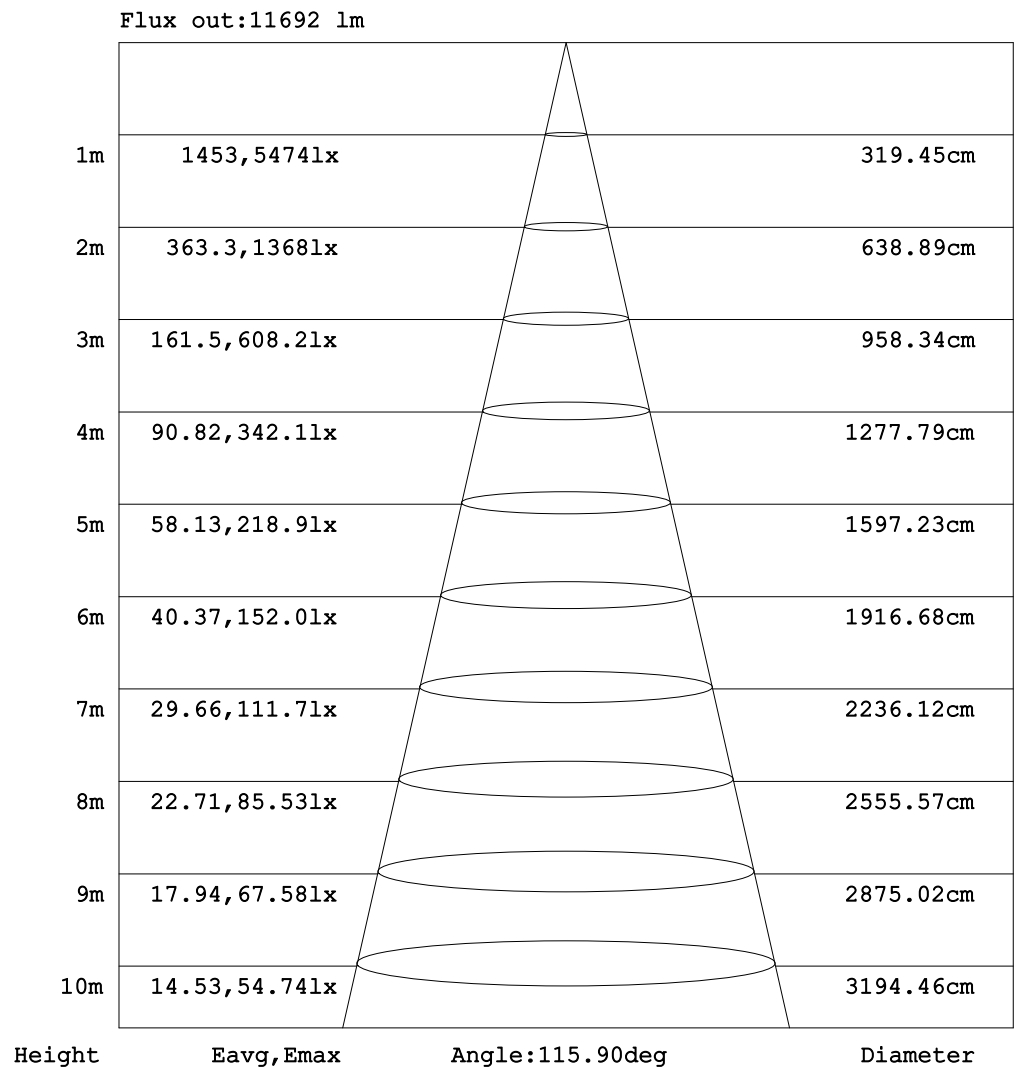


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2020-04-30

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:230.3V I:0.5187A P:117.9W PF:0.9870 Freq:49.99Hz Lamp Flux:18801.7x1 lm		
NAME: T21CP-CC-120-1500K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:



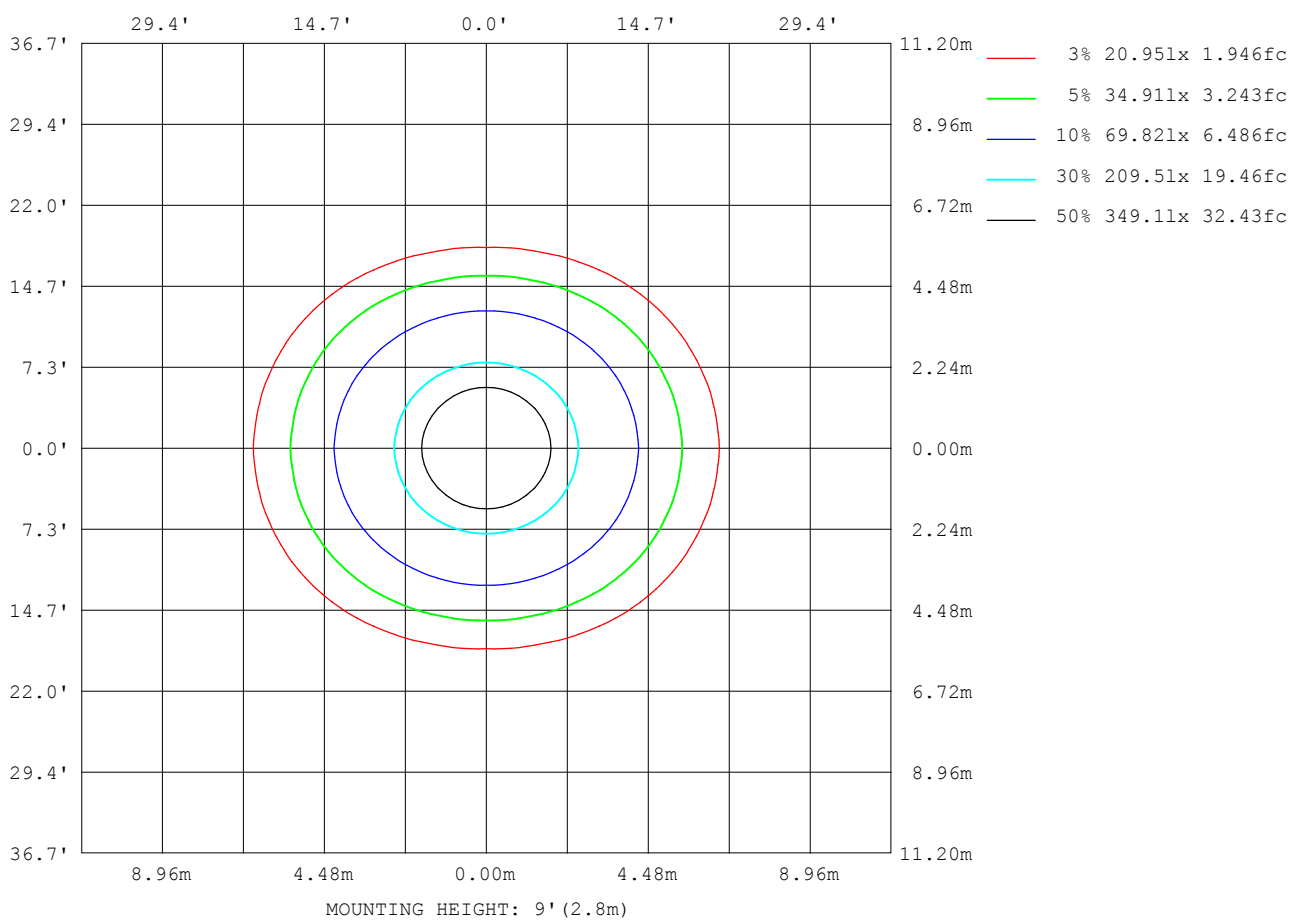
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:230.3V I:0.5187A P:117.9W PF:0.9870 Freq:49.99Hz Lamp Flux:18801.7x1 lm		
NAME: T21CP-CC-120-1500K-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:230.3V I:0.5187A P:117.9W PF:0.9870 Freq:49.99Hz Lamp Flux:18801.7x1 lm		
NAME: T21CP-CC-120-1500K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

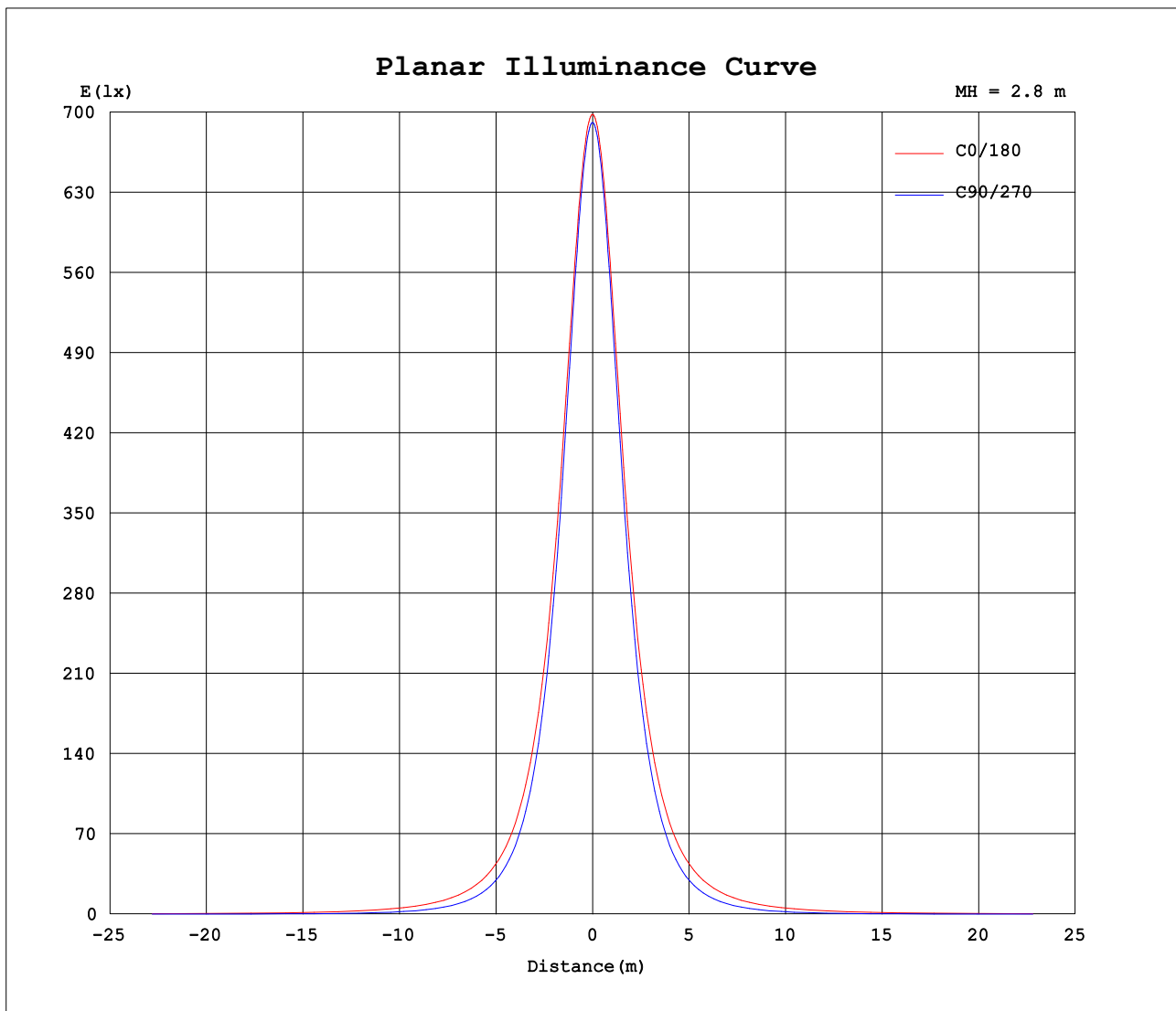
AvgL	cd/m2
L_0~180 (65) av	43468
L_0~180 (75) av	55265
L_0~180 (85) av	122880
L_90~270 (65) av	26744
L_90~270 (75) av	21178
L_90~270 (85) av	9006
L_45 (65) av	35954
L_45 (75) av	41915
L_45 (85) av	83596

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:230.3V I:0.5187A P:117.9W PF:0.9870 Freq:49.99Hz Lamp Flux:18801.7x1 lm		
NAME: T21CP-CC-120-1500K-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	5424	5424	5424	5424	5424	5424	5424	5424	5424	5424	5424	5424	5424	5424	5424	5424	5424	5424	5424
5	5401	5401	5400	5397	5396	5394	5391	5394	5396	5397	5400	5401	5401	5401	5400	5397	5396	5394	5391
10	5333	5332	5327	5318	5310	5304	5300	5304	5310	5318	5327	5332	5333	5332	5327	5318	5310	5304	5300
15	5223	5219	5206	5187	5170	5156	5150	5156	5170	5187	5206	5219	5223	5219	5206	5187	5170	5156	5150
20	5071	5063	5041	5008	4978	4955	4945	4955	4978	5008	5041	5063	5071	5063	5041	5008	4978	4955	4945
25	4884	4870	4835	4784	4737	4703	4688	4703	4737	4784	4835	4870	4884	4870	4835	4784	4737	4703	4688
30	4662	4644	4592	4522	4457	4410	4391	4410	4457	4522	4592	4644	4662	4644	4592	4522	4457	4410	4391
35	4417	4392	4324	4231	4144	4082	4058	4082	4144	4231	4324	4392	4417	4392	4324	4231	4144	4082	4058
40	4151	4120	4033	3913	3802	3725	3695	3725	3802	3913	4033	4120	4151	4120	4033	3913	3802	3725	3695
45	3870	3832	3726	3580	3440	3344	3310	3344	3440	3580	3726	3832	3870	3832	3726	3580	3440	3344	3310
50	3576	3531	3407	3235	3066	2950	2908	2950	3066	3235	3407	3531	3576	3531	3407	3235	3066	2950	2908
55	3275	3224	3084	2887	2687	2543	2493	2543	2687	2887	3084	3224	3275	3224	3084	2887	2687	2543	2493
60	2969	2916	2761	2541	2310	2132	2068	2132	2310	2541	2761	2916	2969	2916	2761	2541	2310	2132	2068
65	2664	2606	2441	2203	1940	1723	1639	1723	1940	2203	2441	2606	2664	2606	2441	2203	1940	1723	1639
70	2364	2303	2132	1877	1588	1327	1211	1327	1588	1877	2132	2303	2364	2303	2132	1877	1588	1327	1211
75	2074	2012	1837	1573	1261	954	795	954	1261	1573	1837	2012	2074	2012	1837	1573	1261	954	795
80	1802	1742	1566	1297	969	623	412	623	969	1297	1566	1742	1802	1742	1566	1297	969	623	412
85	1553	1494	1322	1056	726	364	114	364	726	1056	1322	1494	1553	1494	1322	1056	726	364	114
90	1327	1271	1106	851	535	203	9.29	203	535	851	1106	1271	1327	1271	1106	851	535	203	9.29
95	1126	1073	918	678	387	112	11.2	112	387	678	918	1073	1126	1073	918	678	387	112	11.2
100	950	902	757	541	288	73.2	13.7	73.2	288	541	757	902	950	902	757	541	288	73.2	13.7
105	797	753	622	431	217	58.1	16.4	58.1	217	431	622	753	797	753	622	431	217	58.1	16.4
110	664	623	509	344	165	50.0	19.1	50.0	165	344	509	623	664	623	509	344	165	50.0	19.1
115	548	511	412	270	129	47.1	22.1	47.1	129	270	412	511	548	511	412	270	129	47.1	22.1
120	448	414	334	210	106	46.8	25.1	46.8	106	210	334	414	448	414	334	210	106	46.8	25.1
125	362	335	269	163	91.6	47.2	28.1	47.2	91.6	163	269	335	362	335	269	163	91.6	47.2	28.1
130	291	270	208	136	82.5	48.1	31.2	48.1	82.5	136	208	270	291	270	208	136	82.5	48.1	31.2
135	234	218	163	116	76.8	49.0	34.4	49.0	76.8	116	163	218	234	218	163	116	76.8	49.0	34.4
140	188	177	135	101	72.9	50.5	38.0	50.5	72.9	101	135	177	188	177	135	101	72.9	50.5	38.0
145	154	143	115	90.9	70.8	51.7	41.4	51.7	70.8	90.9	115	143	154	143	115	90.9	70.8	51.7	41.4
150	129	118	101	83.7	68.7	52.8	44.8	52.8	68.7	83.7	101	118	129	118	101	83.7	68.7	52.8	44.8
155	110	98.6	89.4	78.4	66.3	53.7	47.9	53.7	66.3	78.4	89.4	98.6	110	98.6	89.4	78.4	66.3	53.7	47.9
160	95.5	85.0	79.2	72.4	63.3	54.4	50.6	54.4	63.3	72.4	79.2	85.0	95.5	85.0	79.2	72.4	63.3	54.4	50.6
165	82.0	73.4	70.4	66.3	60.2	54.9	52.6	54.9	60.2	66.3	70.4	73.4	82.0	73.4	70.4	66.3	60.2	54.9	52.6
170	69.7	63.7	62.8	60.5	57.7	55.4	54.5	55.4	57.7	60.5	62.8	63.7	69.7	63.7	62.8	60.5	57.7	55.4	54.5
175	59.6	56.4	57.2	56.8	56.7	56.2	56.0	56.2	56.7	56.8	57.2	56.4	59.6	56.4	57.2	56.8	56.7	56.2	56.0
180	53.1	54.7	55.5	55.8	56.5	56.7	56.8	56.7	56.5	55.8	55.5	54.7	53.1	54.7	55.5	55.8	56.5	56.7	56.8

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.3V I:0.5187A P:117.9W PF:0.9870 Freq:49.99Hz Lamp Flux:18801.7x1 lm		
NAME: T21CP-CC-120-1500K-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	5424	5424	5424	5424	5424														
5	5394	5396	5397	5400	5401														
10	5304	5310	5318	5327	5332														
15	5156	5170	5187	5206	5219														
20	4955	4978	5008	5041	5063														
25	4703	4737	4784	4835	4870														
30	4410	4457	4522	4592	4644														
35	4082	4144	4231	4324	4392														
40	3725	3802	3913	4033	4120														
45	3344	3440	3580	3726	3832														
50	2950	3066	3235	3407	3531														
55	2543	2687	2887	3084	3224														
60	2132	2310	2541	2761	2916														
65	1723	1940	2203	2441	2606														
70	1327	1588	1877	2132	2303														
75	954	1261	1573	1837	2012														
80	623	969	1297	1566	1742														
85	364	726	1056	1322	1494														
90	203	535	851	1106	1271														
95	112	387	678	918	1073														
100	73.2	288	541	757	902														
105	58.1	217	431	622	753														
110	50.0	165	344	509	623														
115	47.1	129	270	412	511														
120	46.8	106	210	334	414														
125	47.2	91.6	163	269	335														
130	48.1	82.5	136	208	270														
135	49.0	76.8	116	163	218														
140	50.5	72.9	101	135	177														
145	51.7	70.8	90.9	115	143														
150	52.8	68.7	83.7	101	118														
155	53.7	66.3	78.4	89.4	98.6														
160	54.4	63.3	72.4	79.2	85.0														
165	54.9	60.2	66.3	70.4	73.4														
170	55.4	57.7	60.5	62.8	63.7														
175	56.2	56.7	56.8	57.2	56.4														
180	56.7	56.5	55.8	55.5	54.7														

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	5424	5424	5424	5424	5424	5424	5424	5424	5424	5424
3.0	5416	5416	5416	5413	5414	5413	5412	5413	5414	5413
6.0	5392	5391	5389	5384	5384	5381	5379	5381	5384	5384
9.0	5351	5350	5346	5338	5332	5327	5324	5327	5332	5338
12.0	5294	5292	5284	5271	5261	5252	5248	5252	5261	5271
15.0	5223	5219	5206	5187	5170	5156	5150	5156	5170	5187
18.0	5136	5130	5112	5086	5061	5042	5034	5042	5061	5086
21.0	5036	5027	5003	4967	4935	4911	4900	4911	4935	4967
24.0	4923	4911	4881	4832	4789	4755	4742	4755	4789	4832
27.0	4797	4783	4740	4683	4629	4590	4574	4590	4629	4683
30.0	4662	4644	4592	4522	4457	4410	4391	4410	4457	4522
33.0	4517	4495	4434	4350	4272	4216	4194	4216	4272	4350
36.0	4366	4340	4266	4169	4077	4012	3987	4012	4077	4169
39.0	4206	4176	4092	3979	3872	3797	3770	3797	3872	3979
42.0	4041	4006	3911	3782	3659	3575	3544	3575	3659	3782
45.0	3870	3832	3726	3580	3440	3344	3310	3344	3440	3580
48.0	3694	3652	3535	3374	3217	3108	3071	3108	3217	3374
51.0	3516	3471	3343	3166	2991	2868	2825	2868	2991	3166
54.0	3337	3287	3149	2957	2763	2625	2577	2625	2763	2957
57.0	3153	3101	2955	2748	2536	2379	2324	2379	2536	2748
60.0	2969	2916	2761	2541	2310	2132	2068	2132	2310	2541
63.0	2785	2729	2569	2337	2087	1886	1811	1886	2087	2337
66.0	2603	2546	2379	2137	1868	1643	1553	1643	1868	2137
69.0	2423	2363	2193	1940	1656	1405	1296	1405	1656	1940
72.0	2246	2195	2010	1752	1453	1174	1042	1174	1453	1752
75.0	2074	2012	1837	1573	1261	954.2	794.8	954.2	1261	1573
78.0	1908	1848	1671	1404	1081	748.6	557.6	748.6	1081	1404
81.0	1750	1690	1515	1246	915.5	564.6	340.7	564.6	915.5	1246
84.0	1601	1541	1369	1102	770.4	409.1	165.1	409.1	770.4	1102
87.0	1459	1402	1233	970.1	644.1	289.6	41.46	289.6	644.1	970.1
90.0	1327	1271	1106	850.8	534.7	202.5	9.294	202.5	534.7	850.8
93.0	1204	1149	989.8	743.1	441.5	138.7	10.38	138.7	441.5	743.1
96.0	1089	1037	884.1	647.8	364.4	102.0	11.69	102.0	364.4	647.8
99.0	983.2	934.2	787.2	565.5	304.8	79.54	13.15	79.54	304.8	565.5
102.0	886.0	839.5	700.3	494.0	256.9	65.52	14.75	65.52	256.9	494.0
105.0	797.2	752.6	622.1	431.2	217.5	58.08	16.38	58.08	217.5	431.2
108.0	715.3	672.9	552.0	376.4	184.3	52.66	17.95	52.66	184.3	376.4
111.0	639.9	599.6	488.6	328.9	157.1	49.09	19.73	49.09	157.1	328.9
114.0	570.3	532.2	430.2	284.4	135.1	47.39	21.51	47.39	135.1	284.4
117.0	506.3	471.0	378.9	244.0	118.4	46.78	23.31	46.78	118.4	244.0
120.0	447.9	414.4	333.7	209.9	105.9	46.75	25.07	46.75	105.9	209.9
123.0	393.9	365.1	293.8	179.7	96.26	46.98	26.91	46.98	96.26	179.7
126.0	346.3	321.1	256.3	156.2	89.46	47.36	28.73	47.36	89.46	156.2
129.0	304.3	282.2	219.3	140.7	84.00	47.86	30.58	47.86	84.00	140.7
132.0	267.0	248.1	185.4	127.8	79.94	48.45	32.43	48.45	79.94	127.8
135.0	234.3	217.9	163.1	116.2	76.80	49.04	34.37	49.04	76.80	116.2
138.0	205.1	191.9	145.8	106.7	74.30	49.83	36.62	49.83	74.30	106.7
141.0	180.6	169.1	130.5	98.95	72.40	50.73	38.71	50.73	72.40	98.95
144.0	160.0	148.1	118.5	92.70	71.16	51.49	40.76	51.49	71.16	92.70
147.0	142.9	132.9	109.3	87.60	69.96	52.21	42.79	52.21	69.96	87.60
150.0	128.8	117.7	101.1	83.73	68.72	52.83	44.78	52.83	68.72	83.73
153.0	117.0	105.3	93.65	80.58	67.32	53.40	46.70	53.40	67.32	80.58
156.0	107.1	95.69	87.41	77.21	65.74	53.80	48.48	53.80	65.74	77.21
159.0	98.25	87.52	81.19	73.66	63.96	54.23	50.09	54.23	63.96	73.66
162.0	89.95	80.12	75.44	70.00	62.08	54.63	51.47	54.63	62.08	70.00
165.0	81.98	73.37	70.38	66.29	60.24	54.88	52.64	54.88	60.24	66.29
168.0	74.41	67.23	65.73	62.64	58.52	55.14	53.70	55.14	58.52	62.64
171.0	67.50	62.04	61.53	59.45	57.43	55.61	54.83	55.61	57.43	59.45
174.0	61.40	57.67	58.02	57.31	56.85	56.09	55.75	56.09	56.85	57.31
177.0	56.09	54.96	56.01	56.00	56.40	56.35	56.33	56.35	56.40	56.00
180.0	53.06	54.70	55.50	55.77	56.48	56.67	56.76	56.67	56.48	55.77
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	5424	5424	5424	5424	5424	5424	5424	5424	5424	5424
3.0	5416	5416	5416	5416	5416	5413	5414	5413	5412	5413
6.0	5389	5391	5392	5391	5389	5384	5384	5381	5379	5381
9.0	5346	5350	5351	5350	5346	5338	5332	5327	5324	5327
12.0	5284	5292	5294	5292	5284	5271	5261	5252	5248	5252
15.0	5206	5219	5223	5219	5206	5187	5170	5156	5150	5156
18.0	5112	5130	5136	5130	5112	5086	5061	5042	5034	5042
21.0	5003	5027	5036	5027	5003	4967	4935	4911	4900	4911
24.0	4881	4911	4923	4881	4832	4789	4755	4742	4755	4789
27.0	4740	4783	4797	4783	4740	4683	4629	4590	4574	4590
30.0	4592	4644	4662	4644	4592	4522	4457	4410	4391	4410

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	4434	4495	4517	4495	4434	4350	4272	4216	4194	4216
36.0	4266	4340	4366	4340	4266	4169	4077	4012	3987	4012
39.0	4092	4176	4206	4176	4092	3979	3872	3797	3770	3797
42.0	3911	4006	4041	4006	3911	3782	3659	3575	3544	3575
45.0	3726	3832	3870	3832	3726	3580	3440	3344	3310	3344
48.0	3535	3652	3694	3652	3535	3374	3217	3108	3071	3108
51.0	3343	3471	3516	3471	3343	3166	2991	2868	2825	2868
54.0	3149	3287	3337	3287	3149	2957	2763	2625	2577	2625
57.0	2955	3101	3153	3101	2955	2748	2536	2379	2324	2379
60.0	2761	2916	2969	2916	2761	2541	2310	2132	2068	2132
63.0	2569	2729	2785	2729	2569	2337	2087	1886	1811	1886
66.0	2379	2546	2603	2546	2379	2137	1868	1643	1553	1643
69.0	2193	2363	2423	2363	2193	1940	1656	1405	1296	1405
72.0	2010	2195	2246	2195	2010	1752	1453	1174	1042	1174
75.0	1837	2012	2074	2012	1837	1573	1261	954.2	794.8	954.2
78.0	1671	1848	1908	1848	1671	1404	1081	748.6	557.6	748.6
81.0	1515	1690	1750	1690	1515	1246	915.5	564.6	340.7	564.6
84.0	1369	1541	1601	1541	1369	1102	770.4	409.1	165.1	409.1
87.0	1233	1402	1459	1402	1233	970.1	644.1	289.6	41.46	289.6
90.0	1106	1271	1327	1271	1106	850.8	534.7	202.5	9.294	202.5
93.0	989.8	1149	1204	1149	989.8	743.1	441.5	138.7	10.38	138.7
96.0	884.1	1037	1089	1037	884.1	647.8	364.4	102.0	11.69	102.0
99.0	787.2	934.2	983.2	934.2	787.2	565.5	304.8	79.54	13.15	79.54
102.0	700.3	839.5	886.0	839.5	700.3	494.0	256.9	65.52	14.75	65.52
105.0	622.1	752.6	797.2	752.6	622.1	431.2	217.5	58.08	16.38	58.08
108.0	552.0	672.9	715.3	672.9	552.0	376.4	184.3	52.66	17.95	52.66
111.0	488.6	599.6	639.9	599.6	488.6	328.9	157.1	49.09	19.73	49.09
114.0	430.2	532.2	570.3	532.2	430.2	284.4	135.1	47.39	21.51	47.39
117.0	378.9	471.0	506.3	471.0	378.9	244.0	118.4	46.78	23.31	46.78
120.0	333.7	414.4	447.9	414.4	333.7	209.9	105.9	46.75	25.07	46.75
123.0	293.8	365.1	393.9	365.1	293.8	179.7	96.26	46.98	26.91	46.98
126.0	256.3	321.1	346.3	321.1	256.3	156.2	89.46	47.36	28.73	47.36
129.0	219.3	282.2	304.3	282.2	219.3	140.7	84.00	47.86	30.58	47.86
132.0	185.4	248.1	267.0	248.1	185.4	127.8	79.94	48.45	32.43	48.45
135.0	163.1	217.9	234.3	217.9	163.1	116.2	76.80	49.04	34.37	49.04
138.0	145.8	191.9	205.1	191.9	145.8	106.7	74.30	49.83	36.62	49.83
141.0	130.5	169.1	180.6	169.1	130.5	98.95	72.40	50.73	38.71	50.73
144.0	118.5	148.1	160.0	148.1	118.5	92.70	71.16	51.49	40.76	51.49
147.0	109.3	132.9	142.9	132.9	109.3	87.60	69.96	52.21	42.79	52.21
150.0	101.1	117.7	128.8	117.7	101.1	83.73	68.72	52.83	44.78	52.83
153.0	93.65	105.3	117.0	105.3	93.65	80.58	67.32	53.40	46.70	53.40
156.0	87.41	95.69	107.1	95.69	87.41	77.21	65.74	53.80	48.48	53.80
159.0	81.19	87.52	98.25	87.52	81.19	73.66	63.96	54.23	50.09	54.23
162.0	75.44	80.12	89.95	80.12	75.44	70.00	62.08	54.63	51.47	54.63
165.0	70.38	73.37	81.98	73.37	70.38	66.29	60.24	54.88	52.64	54.88
168.0	65.73	67.23	74.41	67.23	65.73	62.64	58.52	55.14	53.70	55.14
171.0	61.53	62.04	67.50	62.04	61.53	59.45	57.43	55.61	54.83	55.61
174.0	58.02	57.67	61.40	57.67	58.02	57.31	56.85	56.09	55.75	56.09
177.0	56.01	54.96	56.09	54.96	56.01	56.00	56.40	56.35	56.33	56.35
180.0	55.50	54.70	53.06	54.70	55.50	55.77	56.48	56.67	56.76	56.67
G/C	300.0	315.0	330.0	345.0						
0.0	5424	5424	5424	5424						
3.0	5414	5413	5416	5416						
6.0	5384	5384	5389	5391						
9.0	5332	5338	5346	5350						
12.0	5261	5271	5284	5292						
15.0	5170	5187	5206	5219						
18.0	5061	5086	5112	5130						
21.0	4935	4967	5003	5027						
24.0	4789	4832	4881	4911						
27.0	4629	4683	4740	4783						
30.0	4457	4522	4592	4644						
33.0	4272	4350	4434	4495						
36.0	4077	4169	4266	4340						
39.0	3872	3979	4092	4176						
42.0	3659	3782	3911	4006						
45.0	3440	3580	3726	3832						
48.0	3217	3374	3535	3652						
51.0	2991	3166	3343	3471						
54.0	2763	2957	3149	3287						
57.0	2536	2748	2955	3101						
60.0	2310	2541	2761	2916						
63.0	2087	2337	2569	2729						
66.0	1868	2137	2379	2546						

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	1656	1940	2193	2363
72.0	1453	1752	2010	2195
75.0	1261	1573	1837	2012
78.0	1081	1404	1671	1848
81.0	915.5	1246	1515	1690
84.0	770.4	1102	1369	1541
87.0	644.1	970.1	1233	1402
90.0	534.7	850.8	1106	1271
93.0	441.5	743.1	989.8	1149
96.0	364.4	647.8	884.1	1037
99.0	304.8	565.5	787.2	934.2
102.0	256.9	494.0	700.3	839.5
105.0	217.5	431.2	622.1	752.6
108.0	184.3	376.4	552.0	672.9
111.0	157.1	328.9	488.6	599.6
114.0	135.1	284.4	430.2	532.2
117.0	118.4	244.0	378.9	471.0
120.0	105.9	209.9	333.7	414.4
123.0	96.26	179.7	293.8	365.1
126.0	89.46	156.2	256.3	321.1
129.0	84.00	140.7	219.3	282.2
132.0	79.94	127.8	185.4	248.1
135.0	76.80	116.2	163.1	217.9
138.0	74.30	106.7	145.8	191.9
141.0	72.40	98.95	130.5	169.1
144.0	71.16	92.70	118.5	148.1
147.0	69.96	87.60	109.3	132.9
150.0	68.72	83.73	101.1	117.7
153.0	67.32	80.58	93.65	105.3
156.0	65.74	77.21	87.41	95.69
159.0	63.96	73.66	81.19	87.52
162.0	62.08	70.00	75.44	80.12
165.0	60.24	66.29	70.38	73.37
168.0	58.52	62.64	65.73	67.23
171.0	57.43	59.45	61.53	62.04
174.0	56.85	57.31	58.02	57.67
177.0	56.40	56.00	56.01	54.96
180.0	56.48	55.77	55.50	54.70

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: