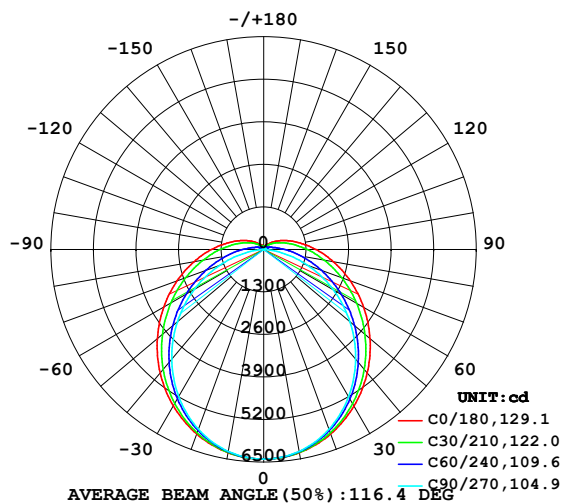


LUMINAIRE PHOTOMETRIC TEST REPORT

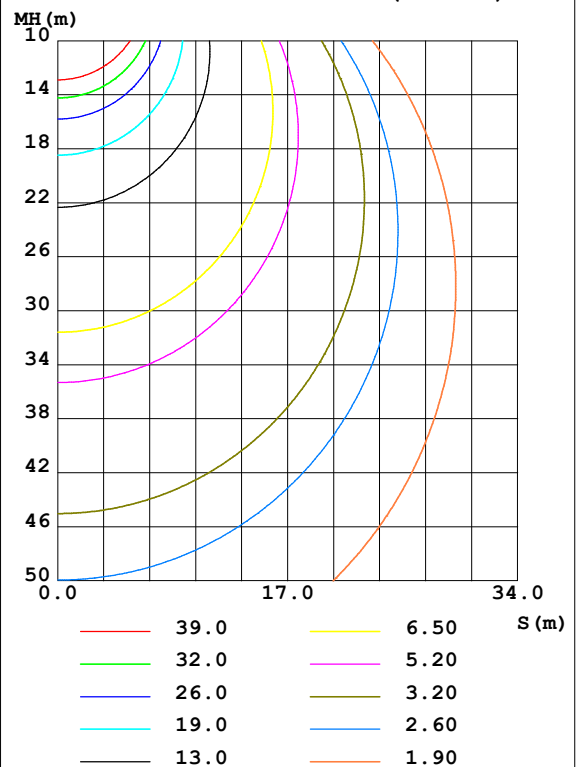
Test:U:230.3V I:0.6036A P:138.3W PF:0.9944 Freq:49.99Hz Lamp Flux:22360.6x1 lm		
NAME: T21CP-LC-140-1500K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 161.73 lm/W			
MODEL		I _{max} (cd)	6409	S/MH (C0/180)	1.28
NOMINAL POWER (W)	140	LOR (%)	100.0	S/MH (C90/270)	1.21
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	22361	η UP, DN (C0-180)	4.9, 45.1
NOMINAL FLUX (lm)	22360.6	CIE CLASS	DIRECT	η UP, DN (C180-360)	4.9, 45.1
LAMPS INSIDE	1	η up (%)	9.7	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	230	η down (%)	90.3	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: 2020-04-13

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	6304	6286	6264	6286	6304	6286	6264	6286	0- 10	605.9	605.9	2.71,2.71
20	5999	5924	5845	5924	5999	5924	5845	5924	10- 20	1730	2336	10.4,10.4
30	5524	5357	5196	5357	5524	5357	5196	5357	20- 30	2610	4946	22.1,22.1
40	4926	4636	4373	4636	4926	4636	4373	4636	30- 40	3139	8085	36.2,36.2
50	4245	3836	3443	3836	4245	3836	3443	3836	40- 50	3280	11365	50.8,50.8
60	3532	3016	2452	3016	3532	3016	2452	3016	50- 60	3063	14428	64.5,64.5
70	2820	2232	1436	2232	2820	2232	1436	2232	60- 70	2566	16994	76,76
80	2162	1553	488.3	1553	2162	1553	488.3	1553	70- 80	1912	18907	84.6,84.6
90	1597	1025	10.45	1025	1597	1025	10.45	1025	80- 90	1278	20185	90.3,90.3
100	1144	658.9	15.87	658.9	1144	658.9	15.87	658.9	90-100	830.8	21016	94,94
110	798.1	420.0	23.07	420.0	798.1	420.0	23.07	420.0	100-110	536.6	21552	96.4,96.4
120	537.7	260.9	30.53	260.9	537.7	260.9	30.53	260.9	110-120	336.8	21889	97.9,97.9
130	350.4	166.6	37.87	166.6	350.4	166.6	37.87	166.6	120-130	203.5	22092	98.8,98.8
140	229.0	122.8	45.88	122.8	229.0	122.8	45.88	122.8	130-140	121.2	22214	99.3,99.3
150	156.4	101.2	54.14	101.2	156.4	101.2	54.14	101.2	140-150	73.59	22287	99.7,99.7
160	115.8	87.17	61.12	87.17	115.8	87.17	61.12	87.17	150-160	44.00	22331	99.9,99.9
170	84.29	73.36	65.65	73.36	84.29	73.36	65.65	73.36	160-170	22.68	22354	100,100
180	63.42	67.46	68.47	67.46	63.42	67.46	68.47	67.46	170-180	6.709	22361	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 9730.9 lm

%lum = 43.5%

%lamp = 43.5%

Conical surface Flux(120deg): 14428 lm

%lum = 64.5%

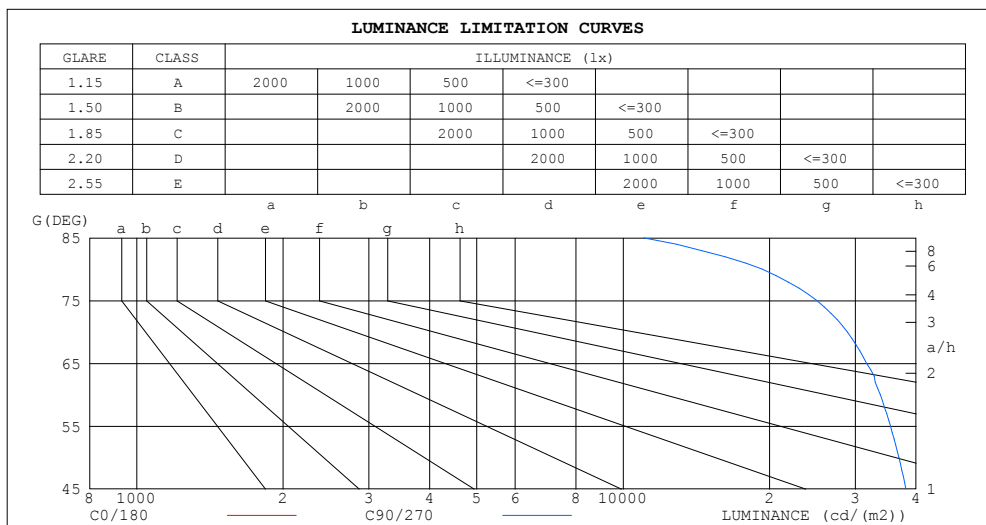
%lamp = 64.5%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2020-04-13

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:0.6036A P:138.3W PF:0.9944 Freq:49.99Hz Lamp Flux:22360.6x1 lm		
NAME: T21CP-LC-140-1500K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	149429	11020
80	86906	19357
75	66904	25035
70	57546	28906
65	52394	31655
60	49308	33759
55	47345	35448
50	46095	36871
45	45317	38147

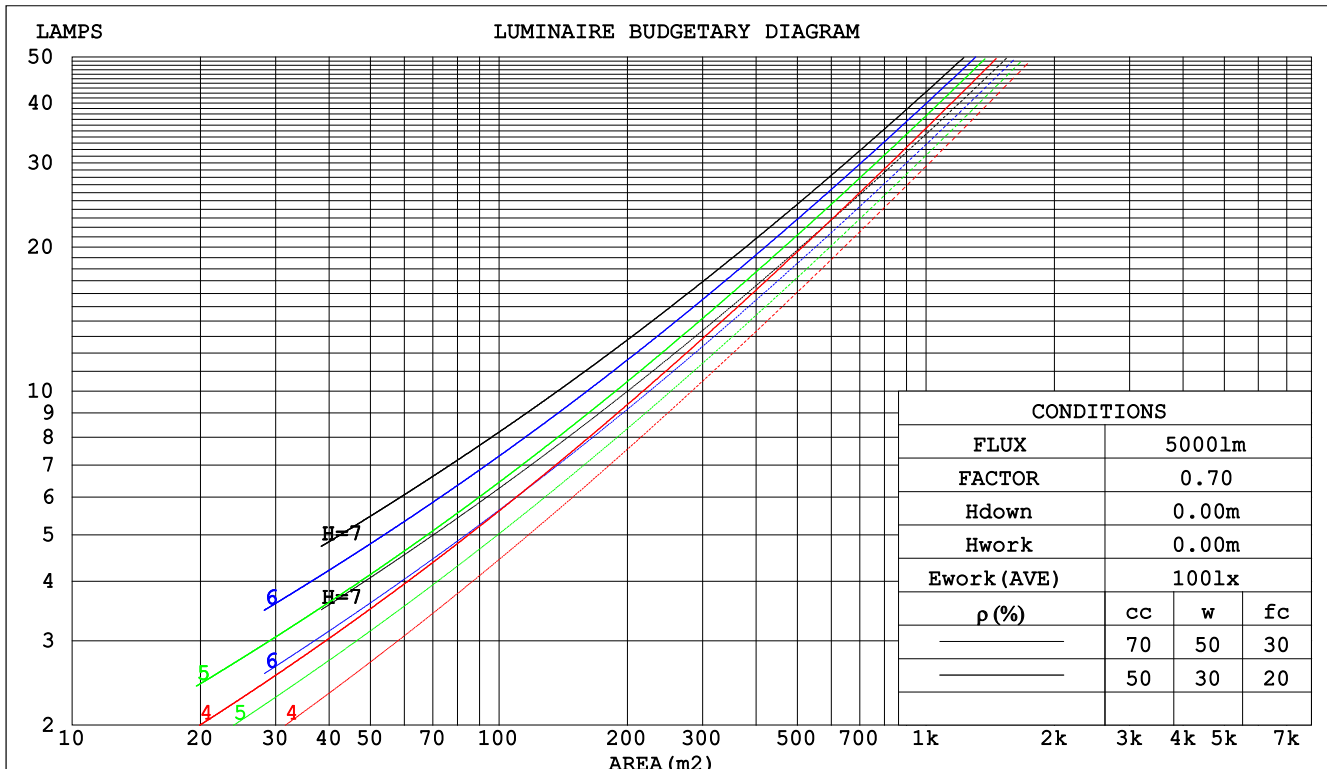
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2020-04-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ 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:0.6036A P:138.3W PF:0.9944 Freq:49.99Hz Lamp Flux:22360.6x1 lm		
NAME: T21CP-LC-140-1500K-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						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	.76	.74	.71
2.0	.85	.78	.72	.83	.76	.70	.77	.72	.67	.73	.68	.64	.68	.64	.61	.58
3.0	.75	.66	.59	.72	.64	.58	.68	.61	.55	.64	.58	.53	.60	.55	.51	.48
4.0	.66	.57	.50	.64	.55	.49	.60	.53	.47	.56	.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	.43	.37	.51	.43	.36	.48	.41	.35	.46	.39	.34	.43	.38	.33	.31
7.0	.48	.39	.32	.46	.38	.32	.44	.36	.31	.42	.35	.30	.39	.34	.29	.27
8.0	.43	.35	.29	.42	.34	.28	.40	.33	.28	.38	.32	.27	.36	.30	.26	.24
9.0	.40	.31	.26	.39	.31	.25	.37	.30	.25	.35	.29	.24	.33	.28	.24	.22
10.0	.37	.29	.23	.36	.28	.23	.34	.27	.23	.33	.26	.22	.31	.25	.21	.20



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2020-04-13

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:0.6036A P:138.3W PF:0.9944 Freq:49.99Hz Lamp Flux:22360.6x1 lm					
NAME: T21CP-LC-140-1500K-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	.204	.065	.348	.199	.063	.329	.189	.060	.312	.180	.058	.296	.171	.055	
2.0	.318	.174	.053	.309	.170	.052	.292	.162	.050	.276	.155	.048	.261	.148	.047	
3.0	.286	.152	.046	.278	.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	.080	.023	
9.0	.175	.085	.024	.171	.083	.023	.163	.080	.023	.155	.077	.022	.147	.075	.022	
10.0	.165	.079	.022	.160	.078	.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	.265	.265	.265	.226	.226	.226	.154	.154	.154	.089	.089	.089	.028	.028	.028	
1.0	.258	.230	.205	.221	.198	.177	.151	.136	.122	.087	.079	.071	.028	.025	.023	
2.0	.251	.207	.170	.215	.178	.147	.147	.123	.103	.085	.072	.060	.027	.023	.020	
3.0	.243	.190	.148	.208	.164	.128	.143	.114	.090	.083	.067	.053	.027	.022	.017	
4.0	.235	.177	.133	.202	.153	.115	.139	.107	.081	.080	.063	.048	.026	.020	.016	
5.0	.228	.167	.122	.196	.145	.106	.135	.101	.075	.078	.059	.045	.025	.019	.015	
6.0	.220	.159	.115	.189	.138	.100	.131	.096	.071	.076	.057	.042	.024	.019	.014	
7.0	.213	.152	.109	.183	.132	.095	.127	.093	.068	.074	.055	.040	.024	.018	.013	
8.0	.207	.147	.105	.178	.127	.092	.123	.089	.065	.072	.053	.039	.023	.017	.013	
9.0	.200	.142	.102	.173	.123	.089	.120	.086	.063	.070	.051	.038	.023	.017	.012	
10.0	.195	.137	.099	.168	.119	.087	.116	.084	.062	.068	.050	.037	.022	.016	.012	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2020-04-13

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:0.6036A P:138.3W PF:0.9944 Freq:49.99Hz Lamp Flux:22360.6x1 lm										
NAME: T21CP-LC-140-1500K-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	14.9	13.9	15.3	15.7
3H	17.4	18.7	17.8	19.1	19.5	14.8	16.2	15.3	16.6	17.0
4H	18.6	19.9	19.0	20.3	20.7	15.3	16.6	15.8	17.0	17.5
6H	19.9	21.1	20.4	21.6	22.1	15.7	16.8	16.1	17.3	17.8
8H	20.7	21.8	21.2	22.3	22.8	15.7	16.9	16.2	17.3	17.8
12H	21.5	22.6	22.0	23.1	23.6	15.7	16.8	16.2	17.3	17.8
4H 2H	15.6	16.8	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	20.6	20.1	21.1	21.6	16.7	17.7	17.2	18.2	18.7
6H	21.1	22.0	21.7	22.5	23.1	17.1	18.0	17.7	18.6	19.1
8H	22.0	22.8	22.5	23.4	24.0	17.3	18.1	17.8	18.7	19.3
12H	23.0	23.8	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	22.3	23.0	23.6	18.3	19.0	18.9	19.6	20.2
8H	22.8	23.4	23.4	24.0	24.7	18.6	19.2	19.2	19.8	20.5
12H	24.0	24.6	24.6	25.2	25.9	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	19.0	19.7
6H	21.8	22.4	22.4	23.0	23.7	18.7	19.3	19.3	19.9	20.6
8H	23.0	23.5	23.6	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, 22361 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 10.8)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2020-04-13

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:0.6036A P:138.3W PF:0.9944 Freq:49.99Hz Lamp Flux:22360.6x1 lm		
NAME: T21CP-LC-140-1500K-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	51	40	33	50	39	33	26
0.80	62	49	42	60	49	41	58	48	41	33
1.00	70	58	50	68	57	49	65	58	48	40
1.25	77	65	57	75	64	56	71	62	55	47
1.50	82	70	62	79	69	62	75	67	60	51
2.00	89	79	71	86	77	70	82	74	68	58
2.50	93	84	76	90	82	75	85	78	72	62
3.00	96	88	81	93	86	80	88	82	77	66
4.00	101	94	88	98	91	86	92	87	82	70
5.00	104	97	92	100	95	90	94	90	86	73
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: 2020-04-13

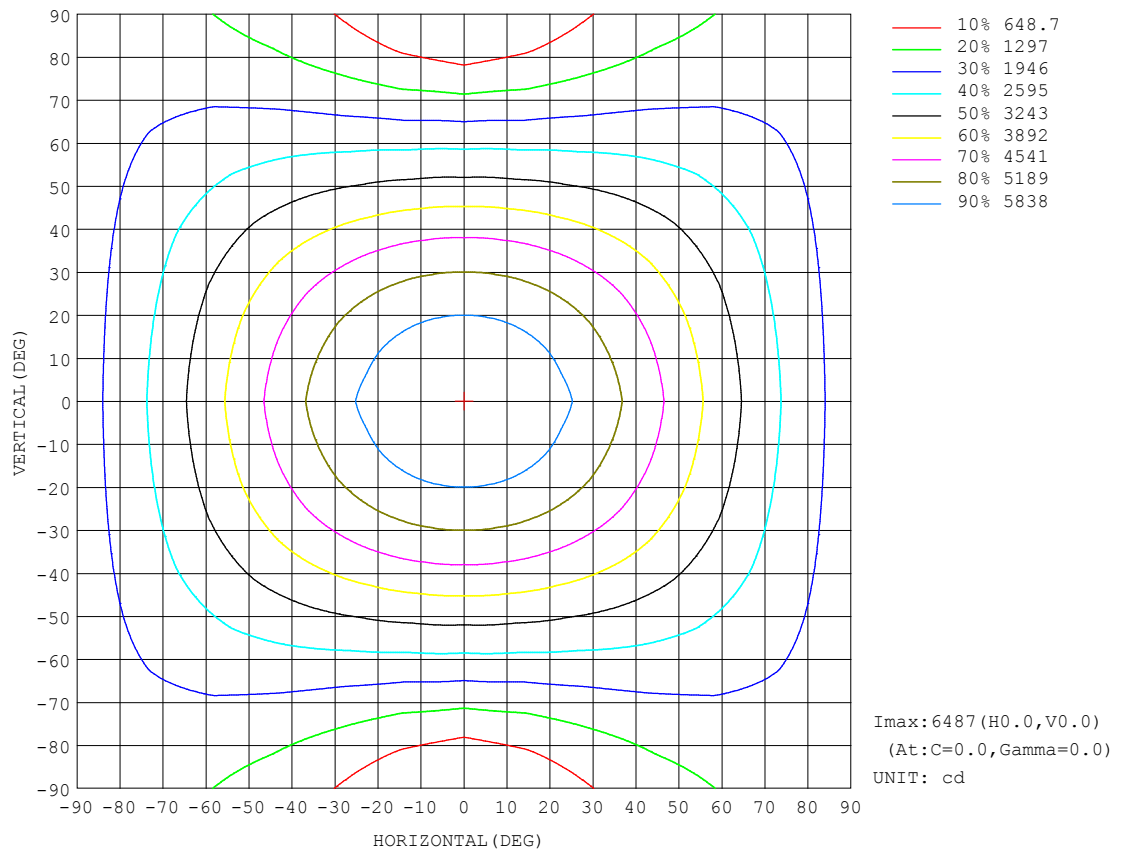
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

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ISOCANDELA DIAGRAM

Test:U:230.3V I:0.6036A P:138.3W PF:0.9944 Freq:49.99Hz Lamp Flux:22360.6x1 lm		
NAME: T21CP-LC-140-1500K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

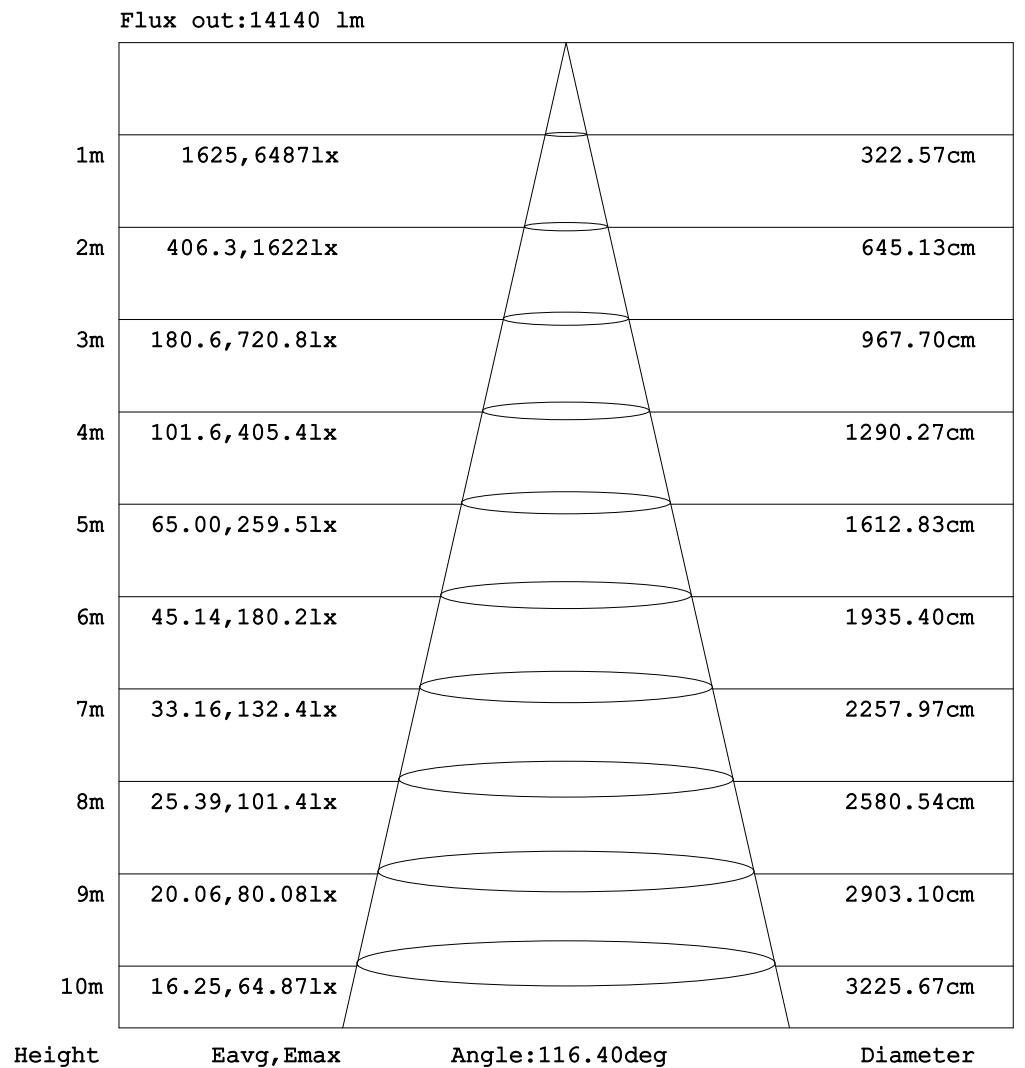


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QC
Test Date: 2020-04-13

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:0.6036A P:138.3W PF:0.9944 Freq:49.99Hz Lamp Flux:22360.6x1 lm		
NAME: T21CP-LC-140-1500K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:



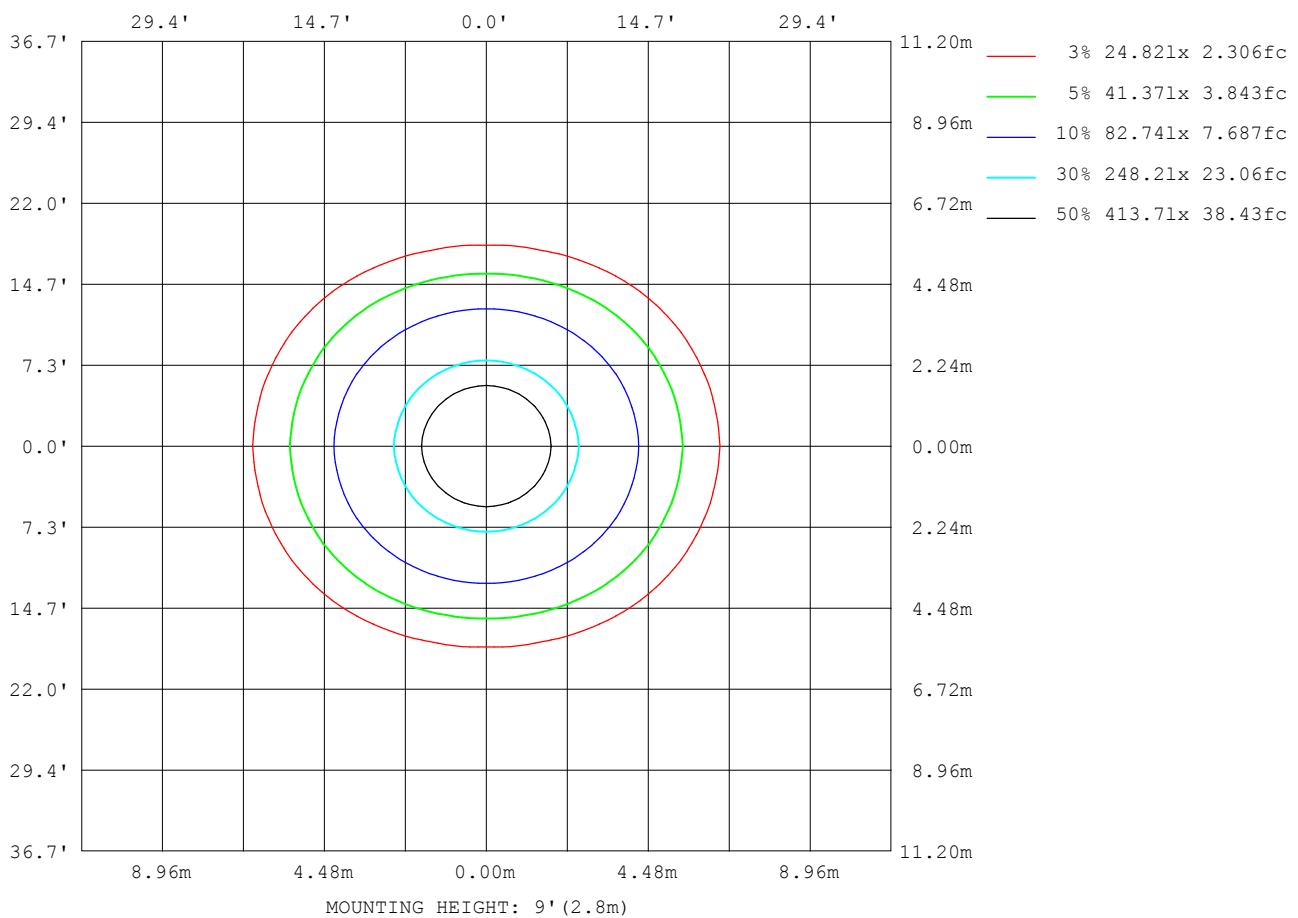
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2020-04-13

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:0.6036A P:138.3W PF:0.9944 Freq:49.99Hz Lamp Flux:22360.6x1 lm		
NAME: T21CP-LC-140-1500K-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:2020-04-13

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:0.6036A P:138.3W PF:0.9944 Freq:49.99Hz Lamp Flux:22360.6x1 lm		
NAME: T21CP-LC-140-1500K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

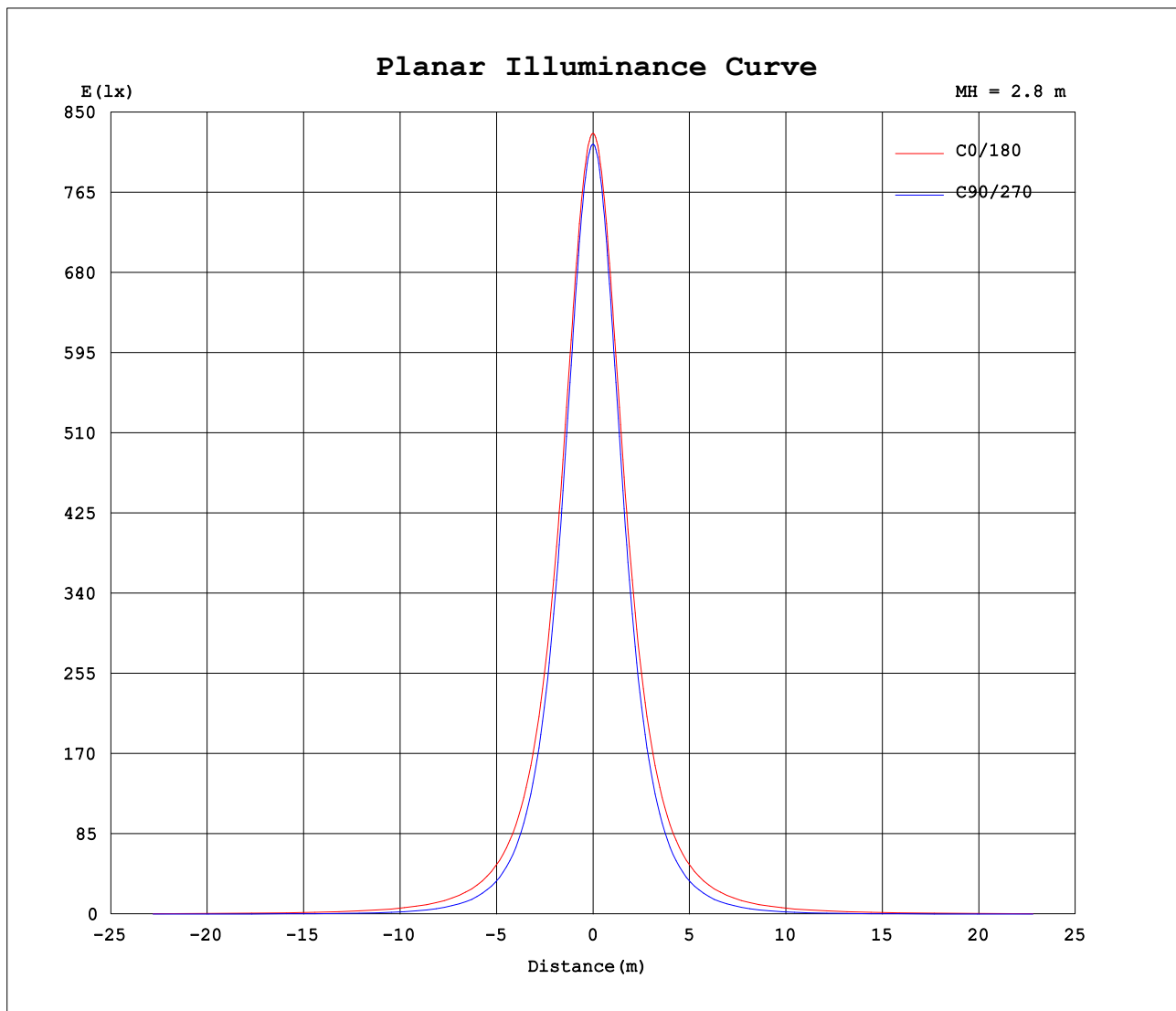
AvgL	cd/m2
L_0~180 (65) av	51769
L_0~180 (75) av	66105
L_0~180 (85) av	147645
L_90~270 (65) av	31716
L_90~270 (75) av	25084
L_90~270 (85) av	11041
L_45 (65) av	42701
L_45 (75) av	49994
L_45 (85) av	100357

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2020-04-13

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: 2020-04-13

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:0.6036A P:138.3W PF:0.9944 Freq:49.99Hz Lamp Flux:22360.6x1 lm		
NAME: T21CP-LC-140-1500K-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	6409	6409	6409	6409	6409	6409	6409	6409	6409	6409	6409	6409	6409	6409	6409	6409	6409	6409	6409
5	6383	6383	6381	6379	6376	6374	6373	6374	6376	6379	6381	6383	6383	6383	6381	6379	6376	6374	6373
10	6304	6303	6297	6286	6275	6267	6264	6267	6275	6286	6297	6303	6304	6303	6297	6286	6275	6267	6264
15	6175	6171	6156	6133	6110	6093	6087	6093	6110	6133	6156	6171	6175	6171	6156	6133	6110	6093	6087
20	5999	5989	5963	5924	5885	5856	5845	5856	5885	5924	5963	5989	5999	5989	5963	5924	5885	5856	5845
25	5780	5764	5721	5663	5605	5563	5547	5563	5605	5663	5721	5764	5780	5764	5721	5663	5605	5563	5547
30	5524	5501	5440	5357	5276	5218	5196	5218	5276	5357	5440	5501	5524	5501	5440	5357	5276	5218	5196
35	5238	5207	5125	5014	4907	4831	4802	4831	4907	5014	5125	5207	5238	5207	5125	5014	4907	4831	4802
40	4926	4888	4780	4636	4501	4408	4373	4408	4501	4636	4780	4888	4926	4888	4780	4636	4501	4408	4373
45	4591	4544	4416	4243	4075	3960	3919	3960	4075	4243	4416	4544	4591	4544	4416	4243	4075	3960	3919
50	4245	4191	4041	3836	3633	3493	3443	3493	3633	3836	4041	4191	4245	4191	4041	3836	3633	3493	3443
55	3891	3830	3660	3424	3185	3013	2954	3013	3185	3424	3660	3830	3891	3830	3660	3424	3185	3013	2954
60	3532	3465	3279	3016	2738	2528	2452	2528	2738	3016	3279	3465	3532	3465	3279	3016	2738	2528	2452
65	3172	3101	2903	2617	2302	2044	1944	2044	2302	2617	2903	3101	3172	3101	2903	2617	2302	2044	1944
70	2820	2746	2540	2232	1886	1574	1436	1574	1886	2232	2540	2746	2820	2746	2540	2232	1886	1574	1436
75	2481	2407	2196	1876	1501	1132	941	1132	1501	1876	2196	2407	2481	2407	2196	1876	1501	1132	941
80	2162	2086	1876	1553	1157	741	488	741	1157	1553	1876	2086	2162	2086	1876	1553	1157	741	488
85	1866	1794	1587	1268	871	439	140	439	871	1268	1587	1794	1866	1794	1587	1268	871	439	140
90	1597	1528	1331	1025	645	245	10.4	245	645	1025	1331	1528	1597	1528	1331	1025	645	245	10.4
95	1356	1292	1107	823	477	142	12.8	142	477	823	1107	1292	1356	1292	1107	823	477	142	12.8
100	1144	1085	916	659	354	91.6	15.9	91.6	354	659	916	1085	1144	1085	916	659	354	91.6	15.9
105	959	906	755	527	268	69.8	19.4	69.8	268	527	755	906	959	906	755	527	268	69.8	19.4
110	798	751	618	420	202	61.4	23.1	61.4	202	420	618	751	798	751	618	420	202	61.4	23.1
115	658	618	502	335	161	57.7	26.8	57.7	161	335	502	618	658	618	502	335	161	57.7	26.8
120	538	503	405	261	130	57.0	30.5	57.0	130	261	405	503	538	503	405	261	130	57.0	30.5
125	435	406	328	205	112	57.1	34.2	57.1	112	205	328	406	435	406	328	205	112	57.1	34.2
130	350	328	261	167	100	57.9	37.9	57.9	100	167	261	328	350	328	261	167	100	57.9	37.9
135	283	265	204	142	93.3	59.0	41.6	59.0	93.3	142	204	265	283	265	204	142	93.3	59.0	41.6
140	229	216	167	123	88.3	60.5	45.9	60.5	88.3	123	167	216	229	216	167	123	88.3	60.5	45.9
145	187	178	140	110	85.1	62.2	50.1	62.2	85.1	110	140	178	187	178	140	110	85.1	62.2	50.1
150	156	148	123	101	82.4	63.7	54.1	63.7	82.4	101	123	148	156	148	123	101	82.4	63.7	54.1
155	134	122	108	94.2	79.4	65.1	57.8	65.1	79.4	94.2	108	122	134	122	108	94.2	79.4	65.1	57.8
160	116	104	95.8	87.2	76.2	66.2	61.1	66.2	76.2	87.2	95.8	104	116	104	95.8	87.2	76.2	66.2	61.1
165	99.2	88.9	84.5	79.8	73.0	66.7	63.7	66.7	73.0	79.8	84.5	88.9	99.2	88.9	84.5	79.8	73.0	66.7	63.7
170	84.3	76.5	75.5	73.4	70.1	67.1	65.7	67.1	70.1	73.4	75.5	76.5	84.3	76.5	75.5	73.4	70.1	67.1	65.7
175	72.6	68.3	69.1	68.8	68.7	68.0	67.5	68.0	68.7	68.8	69.1	68.3	72.6	68.3	69.1	68.8	68.7	68.0	67.5
180	63.4	65.9	66.9	67.5	68.4	68.6	68.5	68.6	68.4	67.5	66.9	65.9	63.4	65.9	66.9	67.5	68.4	68.6	68.5

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2020-04-13

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:0.6036A P:138.3W PF:0.9944 Freq:49.99Hz Lamp Flux:22360.6x1 lm		
NAME: T21CP-LC-140-1500K-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	6409	6409	6409	6409	6409													
5	6374	6376	6379	6381	6383													
10	6267	6275	6286	6297	6303													
15	6093	6110	6133	6156	6171													
20	5856	5885	5924	5963	5989													
25	5563	5605	5663	5721	5764													
30	5218	5276	5357	5440	5501													
35	4831	4907	5014	5125	5207													
40	4408	4501	4636	4780	4888													
45	3960	4075	4243	4416	4544													
50	3493	3633	3836	4041	4191													
55	3013	3185	3424	3660	3830													
60	2528	2738	3016	3279	3465													
65	2044	2302	2617	2903	3101													
70	1574	1886	2232	2540	2746													
75	1132	1501	1876	2196	2407													
80	741	1157	1553	1876	2086													
85	439	871	1268	1587	1794													
90	245	645	1025	1331	1528													
95	142	477	823	1107	1292													
100	91.6	354	659	916	1085													
105	69.8	268	527	755	906													
110	61.4	202	420	618	751													
115	57.7	161	335	502	618													
120	57.0	130	261	405	503													
125	57.1	112	205	328	406													
130	57.9	100	167	261	328													
135	59.0	93.3	142	204	265													
140	60.5	88.3	123	167	216													
145	62.2	85.1	110	140	178													
150	63.7	82.4	101	123	148													
155	65.1	79.4	94.2	108	122													
160	66.2	76.2	87.2	95.8	104													
165	66.7	73.0	79.8	84.5	88.9													
170	67.1	70.1	73.4	75.5	76.5													
175	68.0	68.7	68.8	69.1	68.3													
180	68.6	68.4	67.5	66.9	65.9													

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2020-04-13

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	6409	6409	6409	6409	6409	6409	6409	6409	6409	6409
3.0	6400	6400	6399	6398	6397	6397	6396	6397	6397	6398
6.0	6372	6371	6369	6365	6361	6358	6357	6358	6361	6365
9.0	6325	6324	6319	6310	6300	6295	6292	6295	6300	6310
12.0	6259	6256	6247	6232	6216	6206	6201	6206	6216	6232
15.0	6175	6171	6156	6133	6110	6093	6087	6093	6110	6133
18.0	6074	6067	6046	6014	5982	5959	5949	5959	5982	6014
21.0	5958	5948	5918	5876	5833	5802	5790	5802	5833	5876
24.0	5826	5812	5773	5719	5664	5625	5611	5625	5664	5719
27.0	5681	5663	5613	5545	5478	5430	5411	5430	5478	5545
30.0	5524	5501	5440	5357	5276	5218	5196	5218	5276	5357
33.0	5355	5327	5254	5154	5059	4991	4967	4991	5059	5154
36.0	5177	5144	5058	4941	4827	4748	4717	4748	4827	4941
39.0	4990	4954	4852	4713	4583	4494	4461	4494	4583	4713
42.0	4797	4748	4636	4481	4332	4231	4194	4231	4332	4481
45.0	4591	4544	4416	4243	4075	3960	3919	3960	4075	4243
48.0	4385	4333	4192	4000	3811	3682	3636	3682	3811	4000
51.0	4174	4119	3965	3754	3544	3398	3347	3398	3544	3754
54.0	3962	3903	3737	3507	3275	3109	3053	3109	3275	3507
57.0	3748	3684	3507	3260	3006	2819	2755	2819	3006	3260
60.0	3532	3465	3279	3016	2738	2528	2452	2528	2738	3016
63.0	3316	3246	3052	2775	2475	2238	2166	2238	2475	2775
66.0	3101	3030	2830	2539	2218	1948	1842	1948	2218	2539
69.0	2889	2817	2611	2310	1967	1666	1537	1666	1967	2310
72.0	2682	2608	2399	2089	1727	1393	1235	1393	1727	2089
75.0	2481	2407	2196	1876	1501	1132	941.4	1132	1501	1876
78.0	2287	2213	1999	1677	1289	888.8	659.9	888.8	1289	1677
81.0	2101	2026	1815	1492	1094	671.2	406.4	671.2	1094	1492
84.0	1923	1850	1642	1322	922.9	489.8	195.8	489.8	922.9	1322
87.0	1755	1684	1481	1166	773.2	346.9	49.59	346.9	773.2	1166
90.0	1597	1528	1331	1025	645.2	245.4	10.45	245.4	645.2	1025
93.0	1449	1383	1193	898.9	537.3	174.7	11.72	174.7	537.3	898.9
96.0	1311	1248	1067	787.1	448.9	128.8	13.32	128.8	448.9	787.1
99.0	1184	1124	952.1	688.9	375.1	98.61	15.18	98.61	375.1	688.9
102.0	1066	1010	848.4	602.9	316.1	80.12	17.26	80.12	316.1	602.9
105.0	959.0	906.2	754.5	527.1	267.7	69.77	19.40	69.77	267.7	527.1
108.0	859.8	810.5	669.9	460.6	225.3	64.00	21.60	64.00	225.3	460.6
111.0	768.7	723.0	593.1	401.0	192.6	60.29	23.81	60.29	192.6	401.0
114.0	684.9	642.9	523.7	350.5	168.2	58.08	26.07	58.08	168.2	350.5
117.0	607.6	569.4	461.8	303.0	146.4	57.22	28.30	57.22	146.4	303.0
120.0	537.7	503.1	405.1	260.9	130.2	56.97	30.53	56.97	130.2	260.9
123.0	474.3	443.1	356.5	225.4	118.6	57.01	32.76	57.01	118.6	225.4
126.0	416.2	388.8	314.1	194.7	109.0	57.27	34.95	57.27	109.0	194.7
129.0	365.7	341.9	275.1	173.5	102.3	57.75	37.13	57.75	102.3	173.5
132.0	321.4	300.9	236.2	154.8	97.26	58.32	39.32	58.32	97.26	154.8
135.0	282.6	265.0	204.2	141.7	93.26	59.04	41.57	59.04	93.26	141.7
138.0	248.8	234.1	180.3	129.6	90.15	59.83	44.11	59.83	90.15	129.6
141.0	219.6	207.1	160.7	119.6	87.41	60.85	46.75	60.85	87.41	119.6
144.0	194.5	184.8	143.9	112.4	85.60	61.86	49.31	61.86	85.60	112.4
147.0	173.5	166.1	132.9	106.3	83.99	62.78	51.74	62.78	83.99	106.3
150.0	156.4	147.7	123.4	101.2	82.39	63.69	54.14	63.69	82.39	101.2
153.0	142.1	131.1	113.8	97.04	80.65	64.57	56.41	64.57	80.65	97.04
156.0	130.0	117.8	105.6	92.83	78.75	65.40	58.53	65.40	78.75	92.83
159.0	119.1	107.3	98.22	88.62	76.84	66.05	60.52	66.05	76.84	88.62
162.0	109.0	97.71	91.02	84.17	74.86	66.38	62.23	66.38	74.86	84.17
165.0	99.18	88.90	84.46	79.81	73.00	66.68	63.69	66.68	73.00	79.81
168.0	89.92	81.07	78.91	75.71	71.29	66.89	64.90	66.89	71.29	75.71
171.0	81.73	74.86	74.09	72.32	69.69	67.26	66.11	67.26	69.69	72.32
174.0	74.79	70.09	70.19	69.50	68.85	67.91	67.25	67.91	68.85	69.50
177.0	69.08	66.23	67.50	67.77	68.30	68.24	67.94	68.24	68.30	67.77
180.0	63.42	65.91	66.94	67.46	68.40	68.64	68.47	68.64	68.40	67.46
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	6409	6409	6409	6409	6409	6409	6409	6409	6409	6409
3.0	6399	6400	6400	6400	6399	6398	6397	6397	6396	6397
6.0	6369	6371	6372	6371	6369	6365	6361	6358	6357	6358
9.0	6319	6324	6325	6324	6319	6310	6300	6295	6292	6295
12.0	6247	6256	6259	6256	6247	6232	6216	6206	6201	6206
15.0	6156	6171	6175	6171	6156	6133	6110	6093	6087	6093
18.0	6046	6067	6074	6067	6046	6014	5982	5959	5949	5959
21.0	5918	5948	5958	5948	5918	5876	5833	5802	5790	5802
24.0	5773	5812	5826	5812	5773	5719	5664	5625	5611	5625
27.0	5613	5663	5681	5663	5613	5545	5478	5430	5411	5430
30.0	5440	5501	5524	5501	5440	5357	5276	5218	5196	5218

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2020-04-13

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	5254	5327	5355	5327	5254	5154	5059	4991	4967	4991
36.0	5058	5144	5177	5144	5058	4941	4827	4748	4717	4748
39.0	4852	4954	4990	4954	4852	4713	4583	4494	4461	4494
42.0	4636	4748	4797	4748	4636	4481	4332	4231	4194	4231
45.0	4416	4544	4591	4544	4416	4243	4075	3960	3919	3960
48.0	4192	4333	4385	4333	4192	4000	3811	3682	3636	3682
51.0	3965	4119	4174	4119	3965	3754	3544	3398	3347	3398
54.0	3737	3903	3962	3903	3737	3507	3275	3109	3053	3109
57.0	3507	3684	3748	3684	3507	3260	3006	2819	2755	2819
60.0	3279	3465	3532	3465	3279	3016	2738	2528	2452	2528
63.0	3052	3246	3316	3246	3052	2775	2475	2238	2166	2238
66.0	2830	3030	3101	3030	2830	2539	2218	1948	1842	1948
69.0	2611	2817	2889	2817	2611	2310	1967	1666	1537	1666
72.0	2399	2608	2682	2608	2399	2089	1727	1393	1235	1393
75.0	2196	2407	2481	2407	2196	1876	1501	1132	941.4	1132
78.0	1999	2213	2287	2213	1999	1677	1289	888.8	659.9	888.8
81.0	1815	2026	2101	2026	1815	1492	1094	671.2	406.4	671.2
84.0	1642	1850	1923	1850	1642	1322	922.9	489.8	195.8	489.8
87.0	1481	1684	1755	1684	1481	1166	773.2	346.9	49.59	346.9
90.0	1331	1528	1597	1528	1331	1025	645.2	245.4	10.45	245.4
93.0	1193	1383	1449	1383	1193	898.9	537.3	174.7	11.72	174.7
96.0	1067	1248	1311	1248	1067	787.1	448.9	128.8	13.32	128.8
99.0	952.1	1124	1184	1124	952.1	688.9	375.1	98.61	15.18	98.61
102.0	848.4	1010	1066	1010	848.4	602.9	316.1	80.12	17.26	80.12
105.0	754.5	906.2	959.0	906.2	754.5	527.1	267.7	69.77	19.40	69.77
108.0	669.9	810.5	859.8	810.5	669.9	460.6	225.3	64.00	21.60	64.00
111.0	593.1	723.0	768.7	723.0	593.1	401.0	192.6	60.29	23.81	60.29
114.0	523.7	642.9	684.9	642.9	523.7	350.5	168.2	58.08	26.07	58.08
117.0	461.8	569.4	607.6	569.4	461.8	303.0	146.4	57.22	28.30	57.22
120.0	405.1	503.1	537.7	503.1	405.1	260.9	130.2	56.97	30.53	56.97
123.0	356.5	443.1	474.3	443.1	356.5	225.4	118.6	57.01	32.76	57.01
126.0	314.1	388.8	416.2	388.8	314.1	194.7	109.0	57.27	34.95	57.27
129.0	275.1	341.9	365.7	341.9	275.1	173.5	102.3	57.75	37.13	57.75
132.0	236.2	300.9	321.4	300.9	236.2	154.8	97.26	58.32	39.32	58.32
135.0	204.2	265.0	282.6	265.0	204.2	141.7	93.26	59.04	41.57	59.04
138.0	180.3	234.1	248.8	234.1	180.3	129.6	90.15	59.83	44.11	59.83
141.0	160.7	207.1	219.6	207.1	160.7	119.6	87.41	60.85	46.75	60.85
144.0	143.9	184.8	194.5	184.8	143.9	112.4	85.60	61.86	49.31	61.86
147.0	132.9	166.1	173.5	166.1	132.9	106.3	83.99	62.78	51.74	62.78
150.0	123.4	147.7	156.4	147.7	123.4	101.2	82.39	63.69	54.14	63.69
153.0	113.8	131.1	142.1	131.1	113.8	97.04	80.65	64.57	56.41	64.57
156.0	105.6	117.8	130.0	117.8	105.6	92.83	78.75	65.40	58.53	65.40
159.0	98.22	107.3	119.1	107.3	98.22	88.62	76.84	66.05	60.52	66.05
162.0	91.02	97.71	109.0	97.71	91.02	84.17	74.86	66.38	62.23	66.38
165.0	84.46	88.90	99.18	88.90	84.46	79.81	73.00	66.68	63.69	66.68
168.0	78.91	81.07	89.92	81.07	78.91	75.71	71.29	66.89	64.90	66.89
171.0	74.09	74.86	81.73	74.86	74.09	72.32	69.69	67.26	66.11	67.26
174.0	70.19	70.09	74.79	70.09	70.19	69.50	68.85	67.91	67.25	67.91
177.0	67.50	66.23	69.08	66.23	67.50	67.77	68.30	68.24	67.94	68.24
180.0	66.94	65.91	63.42	65.91	66.94	67.46	68.40	68.64	68.47	68.64
G/C	300.0	315.0	330.0	345.0						
0.0	6409	6409	6409	6409						
3.0	6397	6398	6399	6400						
6.0	6361	6365	6369	6371						
9.0	6300	6310	6319	6324						
12.0	6216	6232	6247	6256						
15.0	6110	6133	6156	6171						
18.0	5982	6014	6046	6067						
21.0	5833	5876	5918	5948						
24.0	5664	5719	5773	5812						
27.0	5478	5545	5613	5663						
30.0	5276	5357	5440	5501						
33.0	5059	5154	5254	5327						
36.0	4827	4941	5058	5144						
39.0	4583	4713	4852	4954						
42.0	4332	4481	4636	4748						
45.0	4075	4243	4416	4544						
48.0	3811	4000	4192	4333						
51.0	3544	3754	3965	4119						
54.0	3275	3507	3737	3903						
57.0	3006	3260	3507	3684						
60.0	2738	3016	3279	3465						
63.0	2475	2775	3052	3246						
66.0	2218	2539	2830	3030						

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2020-04-13

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	1967	2310	2611	2817
72.0	1727	2089	2399	2608
75.0	1501	1876	2196	2407
78.0	1289	1677	1999	2213
81.0	1094	1492	1815	2026
84.0	922.9	1322	1642	1850
87.0	773.2	1166	1481	1684
90.0	645.2	1025	1331	1528
93.0	537.3	898.9	1193	1383
96.0	448.9	787.1	1067	1248
99.0	375.1	688.9	952.1	1124
102.0	316.1	602.9	848.4	1010
105.0	267.7	527.1	754.5	906.2
108.0	225.3	460.6	669.9	810.5
111.0	192.6	401.0	593.1	723.0
114.0	168.2	350.5	523.7	642.9
117.0	146.4	303.0	461.8	569.4
120.0	130.2	260.9	405.1	503.1
123.0	118.6	225.4	356.5	443.1
126.0	109.0	194.7	314.1	388.8
129.0	102.3	173.5	275.1	341.9
132.0	97.26	154.8	236.2	300.9
135.0	93.26	141.7	204.2	265.0
138.0	90.15	129.6	180.3	234.1
141.0	87.41	119.6	160.7	207.1
144.0	85.60	112.4	143.9	184.8
147.0	83.99	106.3	132.9	166.1
150.0	82.39	101.2	123.4	147.7
153.0	80.65	97.04	113.8	131.1
156.0	78.75	92.83	105.6	117.8
159.0	76.84	88.62	98.22	107.3
162.0	74.86	84.17	91.02	97.71
165.0	73.00	79.81	84.46	88.90
168.0	71.29	75.71	78.91	81.07
171.0	69.69	72.32	74.09	74.86
174.0	68.85	69.50	70.19	70.09
177.0	68.30	67.77	67.50	66.23
180.0	68.40	67.46	66.94	65.91

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2020-04-13

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: