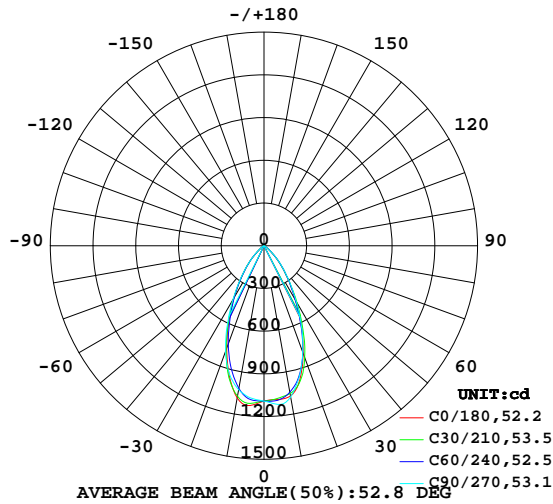


## LUMINAIRE PHOTOMETRIC TEST REPORT

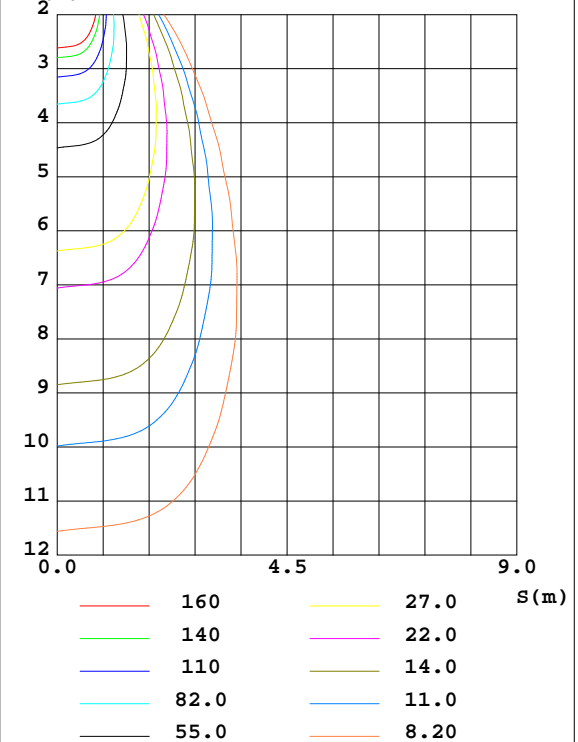
NAME: TLO015-21	TYPE:53D	WEIGHT:1
SPEC.:3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.:46	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 68.11 lm/W			
MODEL		Imax(cd)	1137	S/MH(C0/180)	0.82
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)	0.83
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	976.38	$\eta$ UP,DN(C0-180)	1.2,50.2
NOMINAL FLUX(lm)	976.384	CIE CLASS	DIRECT	$\eta$ UP,DN(C180-360)	1.2,47.5
LAMPS INSIDE	1	$\eta$ up(%)	2.4	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	120	$\eta$ down(%)	97.6	CIBSE SHR MAX	0.85

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:28DEG  
Operators:LXJ  
Test Date:2024-09-30

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.401  
Humidity:65.0%  
Test Distance:5.190m [K=1.0000]  
Remarks:

TLO015-21 36V350mA CXM-9-30-90-36-AA40 53D 3000K CRI90 NA 20240930 (Cir

## ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

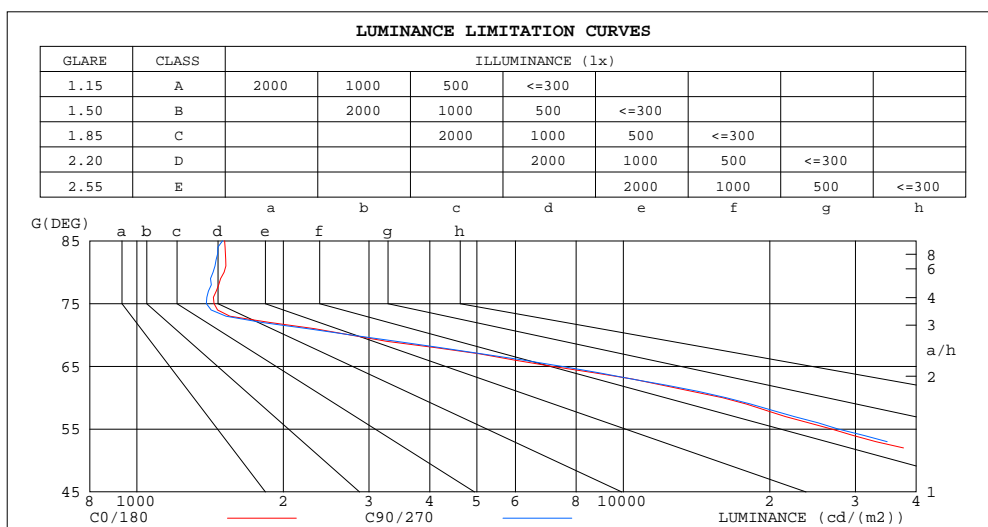
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	lum, lamp
10	1071	1045	1079	1099	1085	1039	1027	1050	0- 10	104.0	104.0	10.7,10.7
20	803.2	805.7	796.3	808.9	766.5	750.1	788.6	747.3	10- 20	261.6	365.6	37.4,37.4
30	445.9	460.6	455.1	453.9	427.7	427.6	437.2	426.2	20- 30	277.2	642.8	65.8,65.8
40	201.3	209.9	208.4	203.6	187.4	184.9	187.6	196.4	30- 40	191.1	834.0	85.4,85.4
50	54.18	58.97	59.22	53.38	45.69	45.19	47.10	50.08	40- 50	89.34	923.3	94.6,94.6
60	13.21	14.41	13.49	12.87	10.90	10.61	11.75	12.28	50- 60	23.74	947.0	97.97
70	1.550	1.793	1.562	1.502	1.149	1.078	1.210	1.286	60- 70	5.289	952.3	97.5,97.5
80	0.4335	0.4185	0.4135	0.3809	0.3140	0.3243	0.3331	0.3638	70- 80	0.6883	953.0	97.6,97.6
90	0.2001	0.2139	0.1988	0.2195	0.1892	0.1675	0.1901	0.1640	80- 90	0.2484	953.3	97.6,97.6
100	0.4042	0.4124	0.4084	0.4325	0.4005	0.3898	0.4026	0.3721	90-100	0.3006	953.6	97.7,97.7
110	0.9907	0.9793	1.011	1.029	0.9838	0.9955	0.9885	0.9568	100-110	0.6920	954.2	97.7,97.7
120	2.232	2.174	2.254	2.260	2.227	2.260	2.204	2.182	110-120	1.527	955.8	97.9,97.9
130	4.245	4.148	4.231	4.265	4.247	4.291	4.185	4.174	120-130	2.823	958.6	98.2,98.2
140	6.675	6.604	6.705	6.732	6.712	6.753	6.664	6.640	130-140	4.185	962.8	98.6,98.6
150	8.928	8.915	9.089	9.085	9.026	9.062	9.012	8.849	140-150	4.921	967.7	99.1,99.1
160	10.34	10.40	10.60	10.59	10.47	10.47	10.53	10.24	150-160	4.519	972.2	99.6,99.6
170	11.13	11.18	11.30	11.36	11.36	11.23	11.19	11.01	160-170	3.071	975.3	99.9,99.9
180	11.81	11.91	11.74	11.89	11.84	11.90	11.74	11.87	170-180	1.092	976.4	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:28DEG  
Operators:LXJ  
Test Date:2024-09-30

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.401  
Humidity:65.0%  
Test Distance:5.190m [K=1.0000]  
Remarks:

## LUMINANCE LIMITATION CURVES

NAME: TLO015-21	TYPE:53D	WEIGHT:1
SPEC.:3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.:46	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1515	1499
80	1511	1434
75	1441	1390
70	2742	2752
65	7129	7452
60	15985	16253
55	26809	27637
50	51010	55488
45	101757	106809

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:28DEG  
Operators:LXJ  
Test Date:2024-09-30

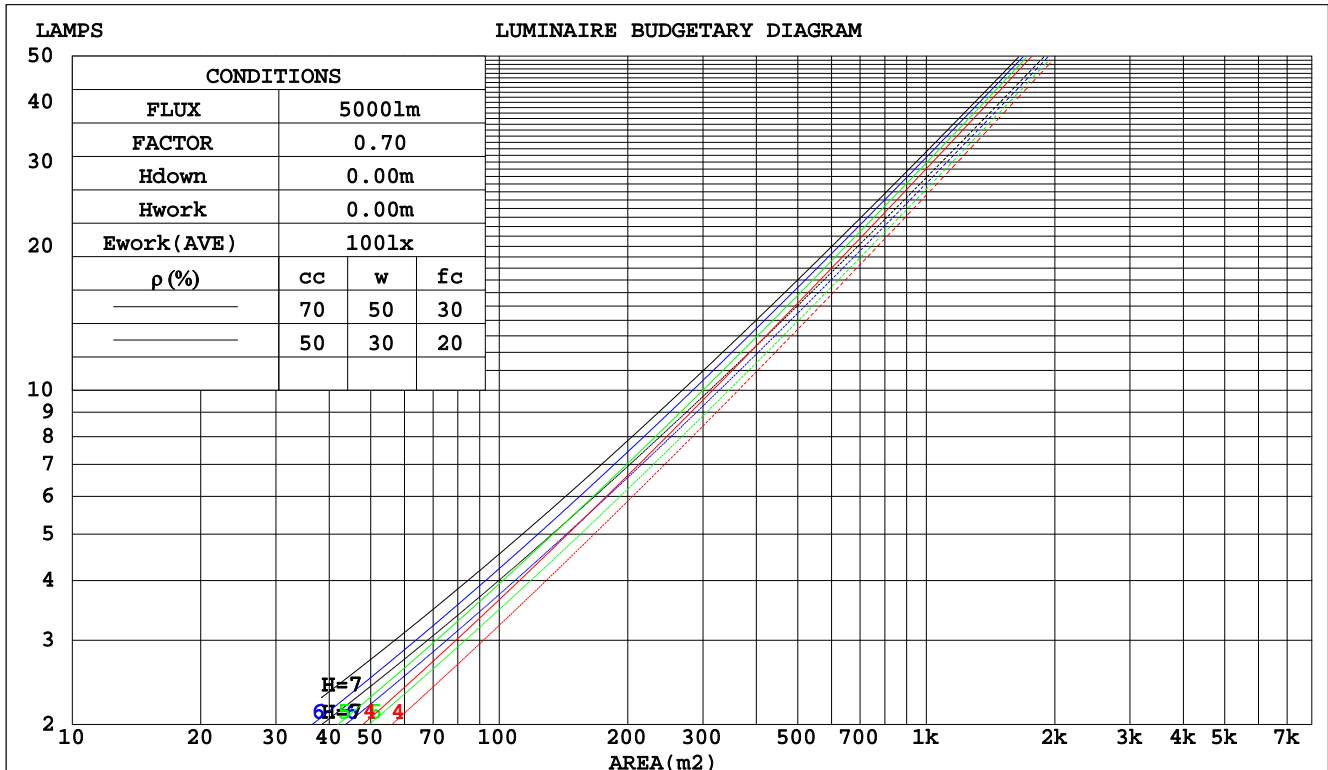
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.401  
Humidity:65.0%  
Test Distance:5.190m [K=1.0000]  
Remarks:

TLO015-21 36V350mA CXM-9-30-90-36-AA40 53D 3000K CRI90 NA 20240930 (Cir

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: TLO015-21	TYPE:53D	WEIGHT:1
SPEC.:3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.:46	Shielding Angle:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.18	1.18	1.18	1.15	1.15	1.15	1.10	1.10	1.10	1.05	1.05	1.05	.00	.00	.00	.98
1.0	1.10	1.07	1.05	1.07	1.05	1.03	1.03	1.01	.00	.99	.97	.96	.95	.94	.93	.91
2.0	1.02	.98	.94	.00	.96	.93	.96	.93	.91	.93	.90	.88	.90	.88	.86	.84
3.0	.95	.89	.85	.93	.88	.84	.90	.86	.83	.87	.84	.81	.85	.82	.80	.78
4.0	.88	.82	.78	.87	.81	.77	.84	.80	.76	.82	.78	.75	.80	.77	.74	.72
5.0	.82	.76	.72	.81	.75	.71	.79	.74	.70	.77	.73	.70	.75	.72	.69	.67
6.0	.77	.71	.66	.76	.70	.66	.74	.69	.65	.73	.68	.65	.71	.67	.64	.63
7.0	.72	.66	.62	.71	.65	.61	.70	.65	.61	.68	.64	.60	.67	.63	.60	.58
8.0	.68	.62	.57	.67	.61	.57	.66	.61	.57	.65	.60	.56	.63	.59	.56	.55
9.0	.64	.58	.54	.63	.58	.54	.62	.57	.53	.61	.56	.53	.60	.56	.53	.51
10.0	.60	.54	.51	.60	.54	.50	.59	.54	.50	.58	.53	.50	.57	.53	.50	.48



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:28DEG  
Operators:LXJ  
Test Date:2024-09-30

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.401  
Humidity:65.0%  
Test Distance:5.190m [K=1.0000]  
Remarks:

TLO015-21 36V350mA CXM-9-30-90-36-AA40 53D 3000K CRI90 NA 20240930 (Cir

### WEC AND CCEC

NAME: TLO015-21	TYPE:53D	WEIGHT:1
SPEC.:3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.:46	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	.184	.105	.033	.177	.101	.032	.163	.093	.030	.150	.086	.028	.138	.080	.026		
2.0	.177	.097	.030	.171	.094	.029	.159	.088	.027	.148	.083	.026	.138	.078	.025		
3.0	.169	.090	.027	.163	.088	.026	.153	.083	.025	.144	.079	.024	.135	.075	.023		
4.0	.161	.084	.025	.156	.082	.024	.147	.078	.023	.139	.075	.022	.131	.071	.022		
5.0	.153	.078	.023	.149	.077	.022	.141	.073	.022	.134	.071	.021	.127	.068	.020		
6.0	.146	.073	.021	.142	.072	.021	.135	.069	.020	.129	.067	.020	.123	.065	.019		
7.0	.139	.069	.020	.136	.068	.019	.130	.066	.019	.124	.064	.018	.118	.061	.018		
8.0	.133	.065	.018	.130	.064	.018	.125	.062	.018	.119	.060	.017	.114	.059	.017		
9.0	.127	.062	.017	.125	.061	.017	.120	.059	.017	.115	.057	.016	.110	.056	.016		
10.0	.122	.058	.016	.120	.058	.016	.115	.056	.016	.110	.055	.016	.106	.053	.015		

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	.209	.209	.209	.178	.178	.178	.122	.122	.122	.070	.070	.070	.022	.022	.022	
1.0	.190	.175	.163	.162	.151	.140	.111	.104	.097	.064	.060	.056	.020	.019	.018	
2.0	.175	.151	.130	.150	.130	.113	.103	.090	.079	.059	.052	.046	.019	.017	.015	
3.0	.163	.132	.107	.140	.114	.093	.096	.079	.065	.056	.046	.038	.018	.015	.013	
4.0	.154	.118	.090	.132	.102	.078	.091	.071	.055	.052	.041	.033	.017	.013	.011	
5.0	.145	.106	.077	.125	.092	.067	.086	.064	.047	.050	.038	.028	.016	.012	.009	
6.0	.138	.097	.067	.119	.084	.059	.082	.059	.042	.047	.035	.025	.015	.011	.008	
7.0	.132	.090	.060	.113	.078	.052	.078	.054	.037	.045	.032	.022	.015	.010	.007	
8.0	.126	.083	.054	.108	.072	.047	.075	.051	.033	.044	.030	.020	.014	.010	.007	
9.0	.121	.078	.049	.104	.068	.043	.072	.048	.031	.042	.028	.018	.014	.009	.006	
10.0	.116	.074	.046	.100	.064	.040	.070	.045	.028	.041	.027	.017	.013	.009	.006	

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:28DEG  
Operators:LXJ  
Test Date:2024-09-30

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.401  
Humidity:65.0%  
Test Distance:5.190m [K=1.0000]  
Remarks:

TLO015-21 36V350mA CXM-9-30-90-36-AA40 53D 3000K CRI90 NA 20240930 (Cir

UGR(Unified Glare Rating) Table

NAME: TLO015-21					TYPE:53D			WEIGHT:1			
SPEC.:3000K CRI90					DIM.:			SERIAL No.:			
MFR.:					SUR.:46			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		24.0	25.0	24.3	25.2	25.4	24.1	25.1	24.4	25.3	25.5
3H		23.8	24.7	24.1	25.0	25.2	23.9	24.8	24.2	25.1	25.3
4H		23.7	24.6	24.1	24.8	25.1	23.8	24.7	24.1	24.9	25.2
6H		23.6	24.4	24.0	24.7	25.0	23.7	24.5	24.1	24.8	25.1
8H		23.6	24.4	23.9	24.6	25.0	23.7	24.4	24.0	24.7	25.0
12H		23.6	24.3	23.9	24.6	24.9	23.6	24.4	24.0	24.7	25.0
4H 2H		23.8	24.6	24.1	24.9	25.1	23.9	24.7	24.2	25.0	25.2
3H		23.6	24.3	24.0	24.6	25.0	23.7	24.4	24.0	24.7	25.0
4H		23.5	24.2	23.9	24.5	24.9	23.6	24.2	24.0	24.6	24.9
6H		23.4	24.0	23.8	24.3	24.7	23.5	24.1	23.9	24.4	24.8
8H		23.3	23.9	23.8	24.3	24.7	23.4	24.0	23.9	24.4	24.8
12H		23.3	23.8	23.7	24.2	24.6	23.4	23.9	23.8	24.3	24.7
8H 4H		23.3	23.9	23.8	24.3	24.7	23.4	24.0	23.9	24.4	24.8
6H		23.2	23.7	23.7	24.1	24.6	23.3	23.8	23.8	24.2	24.7
8H		23.2	23.6	23.7	24.0	24.5	23.3	23.7	23.8	24.1	24.6
12H		23.1	23.5	23.6	23.9	24.5	23.2	23.5	23.7	24.0	24.5
12H 4H		23.3	23.8	23.7	24.2	24.6	23.4	23.9	23.8	24.3	24.7
6H		23.2	23.6	23.7	24.0	24.5	23.3	23.7	23.8	24.1	24.6
8H		23.1	23.5	23.6	23.9	24.5	23.2	23.5	23.7	24.0	24.5
Variations with the observer position at spacings:											
S = 1.0H		+ 2.4 / - 8.3					+ 2.4 / - 8.1				
1.5H		+ 3.5 / - 6.4					+ 3.6 / - 6.3				
2.0H		+ 5.6 / - 8.4					+ 5.7 / - 8.3				

CIE Pub.117, 976.4 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = -0.1$ )

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:28DEG  
Operators:LXJ  
Test Date:2024-09-30

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.401  
Humidity:65.0%  
Test Distance:5.190m [K=1.0000]  
Remarks:

TLO015-21 36V350mA CXM-9-30-90-36-AA40 53D 3000K CRI90 NA 20240930 (Cir

### UTILIZATION FACTORS TABLE

NAME: TLO015-21	TYPE:53D	WEIGHT:1
SPEC.:3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.:46	Shielding Angle:

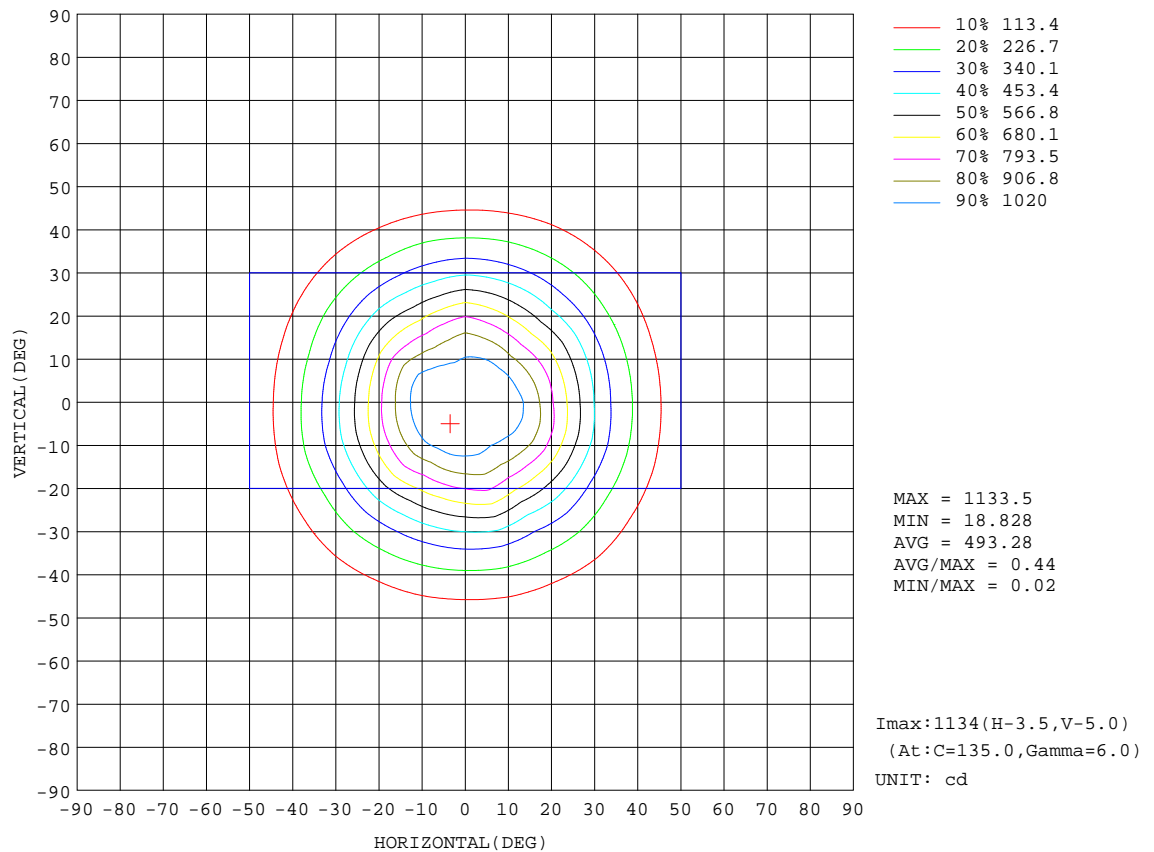
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT)    k(RI) x RCR = 5									
k = 0.60	82	75	71	82	75	71	81	74	71	67
0.80	90	84	80	90	83	79	88	83	79	75
1.00	96	90	85	95	89	85	93	89	84	80
1.25	100	95	91	99	94	90	97	92	89	84
1.50	103	98	94	102	97	94	99	95	92	87
2.00	107	102	99	105	101	98	102	99	96	90
2.50	109	104	101	107	103	100	103	100	98	91
3.00	110	107	104	108	105	102	104	102	100	93
4.00	112	109	107	110	108	105	106	104	102	94
5.00	114	111	109	111	109	107	107	105	104	95
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:28DEG  
Operators:LXJ  
Test Date:2024-09-30

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.401  
Humidity:65.0%  
Test Distance:5.190m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

NAME: TLO015-21	TYPE:53D	WEIGHT:1
SPEC.:3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.:46	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:28DEG  
Operators:LXJ  
Test Date:2024-09-30

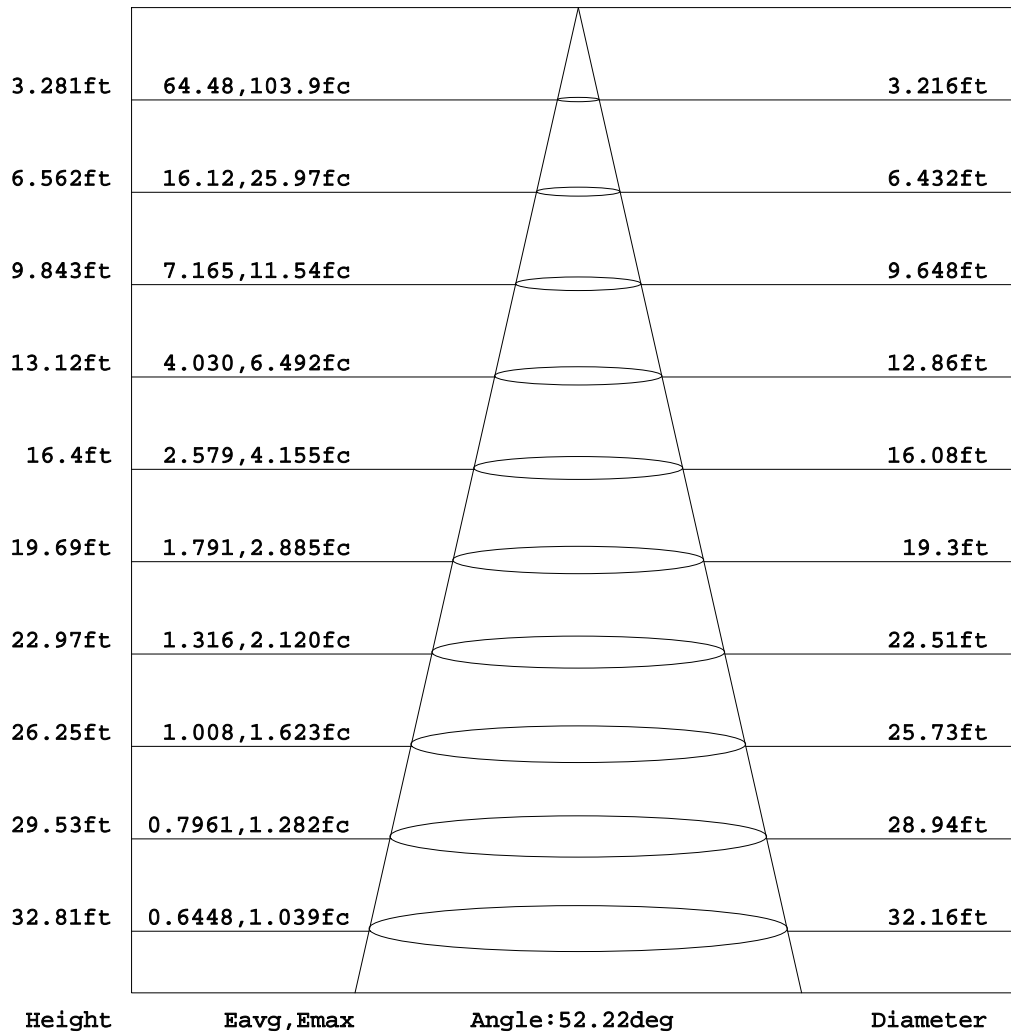
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.401  
Humidity:65.0%  
Test Distance:5.190m [K=1.0000]  
Remarks:



### AAI Figure

NAME: TLO015-21	TYPE:53D	WEIGHT:1
SPEC.:3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.:46	Shielding Angle:

Flux out:566.1 lm



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

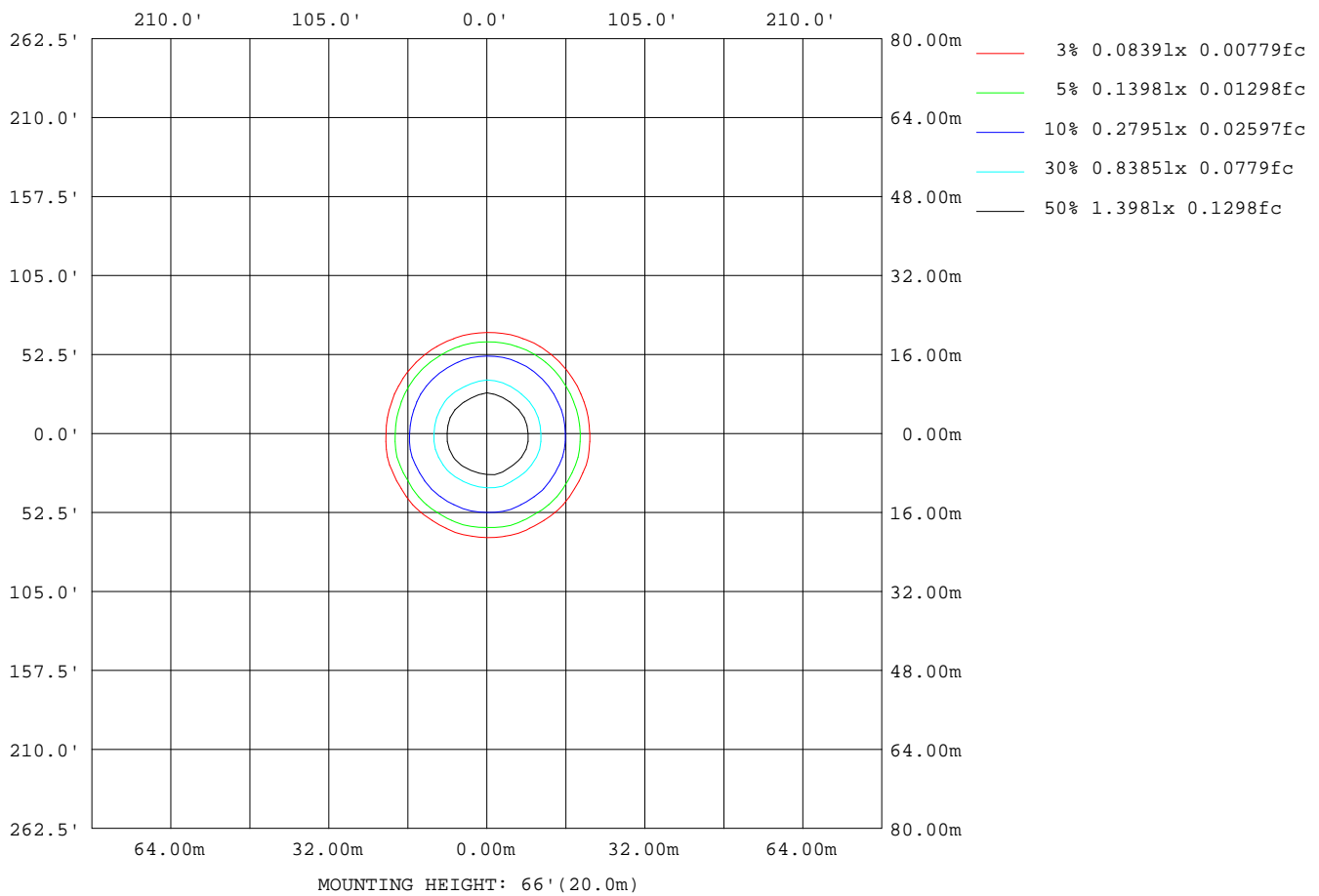
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:28DEG  
Operators:LXJ  
Test Date:2024-09-30

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.401  
Humidity:65.0%  
Test Distance:5.190m [K=1.0000]  
Remarks:

TLO015-21 36V350mA CXM-9-30-90-36-AA40 53D 3000K CRI90 NA 20240930 (Cir

### ISOLUX DIAGRAM

NAME: TLO015-21	TYPE:53D	WEIGHT:1
SPEC.:3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.:46	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:28DEG  
Operators:LXJ  
Test Date:2024-09-30

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.401  
Humidity:65.0%  
Test Distance:5.190m [K=1.0000]  
Remarks:

## LED Avg.L Report

NAME: TLO015-21	TYPE:53D	WEIGHT:1
SPEC.:3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.:46	Shielding Angle:

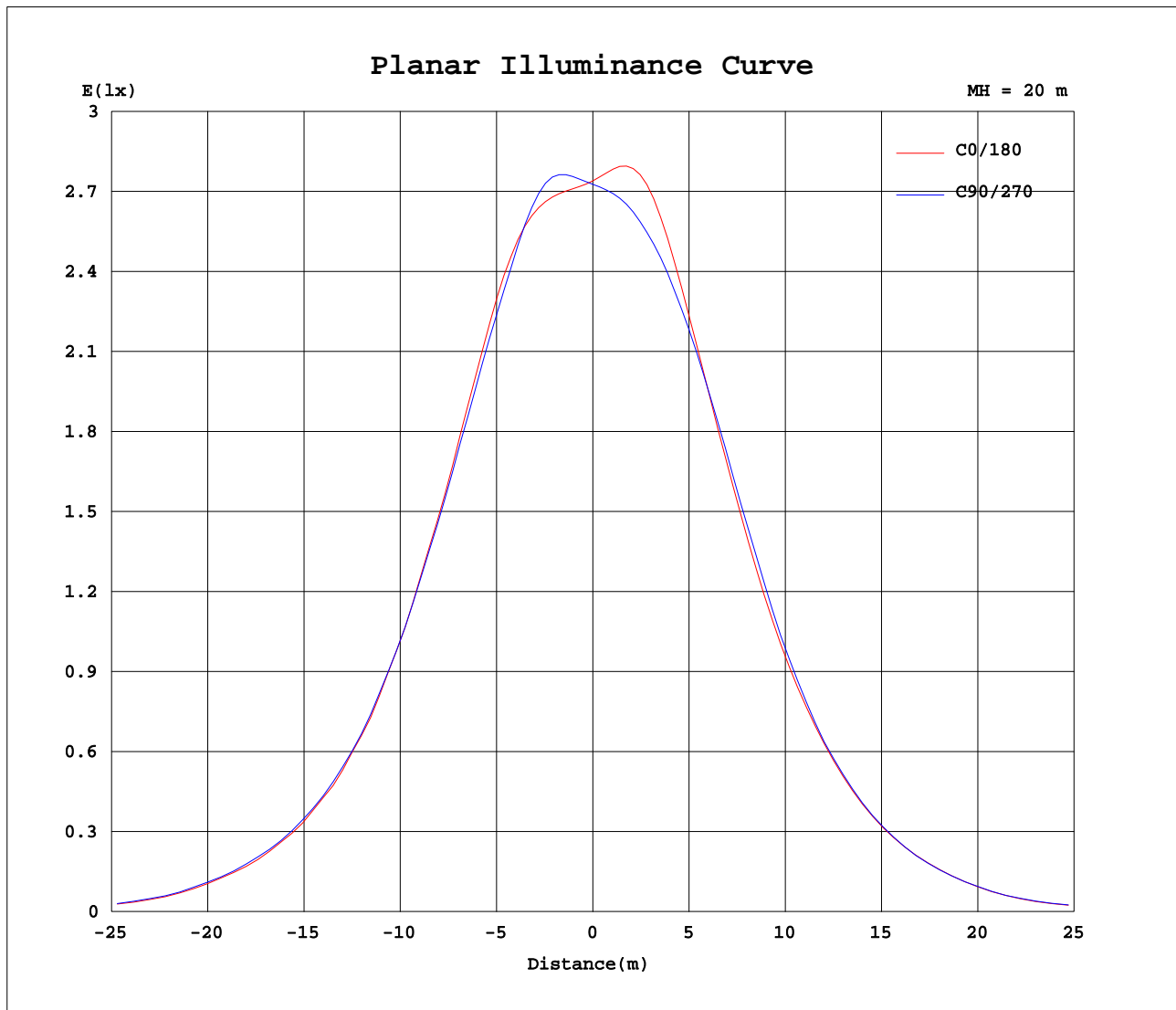
AvgL	cd/m2
L_0~180(65)av	6366
L_0~180(75)av	1293
L_0~180(85)av	1302
L_90~270(65)av	6669
L_90~270(75)av	1319
L_90~270(85)av	1292
L_45(65)av	6683
L_45(75)av	1309
L_45(85)av	1249

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:28DEG  
Operators:LXJ  
Test Date:2024-09-30

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.401  
Humidity:65.0%  
Test Distance:5.190m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 28DEG  
Operators: LXJ  
Test Date: 2024-09-30

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.401  
Humidity: 65.0%  
Test Distance: 5.190m [K=1.0000]  
Remarks:

TLO015-21 36V350mA CXM-9-30-90-36-AA40 53D 3000K CRI90 NA 20240930 (Cir

## LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: TLO015-21	TYPE:53D	WEIGHT:1
SPEC.:3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.:46	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	1091	1091	1091	1091	1091	1091	1091	1091	1091	1091	1091	1091	1091	1091	1091	1091	1091	1091	1091
5	1084	1078	1076	1081	1090	1104	1118	1128	1132	1133	1132	1130	1126	1120	1111	1098	1085	1075	1073
10	1071	1066	1055	1045	1045	1066	1079	1091	1089	1099	1095	1096	1085	1084	1073	1039	1017	1011	1027
15	974	990	984	966	950	967	955	950	941	967	961	957	944	952	956	914	892	905	935
20	803	834	837	806	795	829	796	781	773	809	798	790	767	767	779	750	735	754	789
25	622	649	647	627	612	655	623	606	601	629	617	610	585	581	592	583	565	576	608
30	446	468	464	461	440	473	455	444	439	454	447	448	428	417	424	428	416	421	437
35	310	320	316	321	310	322	316	309	307	312	308	311	293	282	288	289	286	293	297
40	201	207	204	210	207	212	208	206	203	204	195	201	187	183	186	185	183	190	188
45	119	125	121	127	124	129	125	125	119	119	113	115	105	102	101	103	103	105	107
50	54.2	56.9	57.4	59.0	58.2	59.9	59.2	57.0	54.1	53.4	48.9	50.3	45.7	45.0	44.5	45.2	45.4	45.6	47.1
55	25.4	26.4	26.1	27.6	26.7	27.7	26.3	27.1	25.8	25.2	23.2	23.9	22.1	21.8	21.7	21.9	22.2	22.1	23.2
60	13.2	13.8	13.3	14.4	13.7	14.1	13.5	13.9	12.9	12.9	11.8	12.0	10.9	10.6	10.8	10.6	11.1	10.8	11.7
65	4.98	5.39	5.12	5.71	5.40	5.63	5.23	5.44	4.94	4.95	4.38	4.50	3.95	3.68	3.82	3.69	3.93	3.77	4.13
70	1.55	1.67	1.61	1.79	1.65	1.75	1.56	1.65	1.49	1.50	1.31	1.34	1.15	1.06	1.13	1.08	1.16	1.12	1.21
75	0.62	0.61	0.62	0.61	0.61	0.60	0.60	0.58	0.58	0.56	0.56	0.55	0.49	0.51	0.49	0.51	0.51	0.54	0.54
80	0.43	0.43	0.43	0.42	0.42	0.41	0.41	0.40	0.40	0.38	0.38	0.37	0.31	0.33	0.31	0.32	0.32	0.33	0.33
85	0.22	0.21	0.22	0.21	0.22	0.21	0.22	0.20	0.20	0.20	0.19	0.20	0.16	0.16	0.16	0.16	0.16	0.15	0.16
90	0.20	0.22	0.20	0.21	0.20	0.22	0.20	0.22	0.20	0.22	0.20	0.22	0.19	0.17	0.19	0.17	0.19	0.17	0.19
95	0.27	0.28	0.27	0.28	0.27	0.28	0.27	0.29	0.28	0.30	0.28	0.30	0.26	0.24	0.26	0.24	0.26	0.25	0.26
100	0.40	0.41	0.40	0.41	0.40	0.42	0.41	0.43	0.42	0.43	0.43	0.44	0.40	0.38	0.40	0.39	0.40	0.39	0.40
105	0.64	0.63	0.63	0.64	0.63	0.64	0.65	0.66	0.66	0.67	0.68	0.68	0.63	0.62	0.63	0.63	0.64	0.64	0.64
110	0.99	0.98	0.98	0.98	0.99	0.99	1.01	1.01	1.03	1.03	1.05	1.04	0.98	0.99	0.99	1.00	0.99	1.01	0.99
115	1.52	1.49	1.51	1.49	1.51	1.51	1.54	1.53	1.56	1.55	1.59	1.58	1.51	1.53	1.51	1.53	1.51	1.53	1.50
120	2.23	2.19	2.23	2.17	2.22	2.20	2.25	2.23	2.28	2.26	2.32	2.30	2.23	2.26	2.23	2.26	2.23	2.25	2.20
125	3.15	3.09	3.13	3.07	3.14	3.09	3.15	3.12	3.20	3.17	3.25	3.23	3.15	3.20	3.15	3.20	3.14	3.17	3.10
130	4.25	4.16	4.21	4.15	4.22	4.16	4.23	4.19	4.29	4.26	4.35	4.34	4.25	4.30	4.26	4.29	4.23	4.26	4.19
135	5.44	5.36	5.41	5.36	5.41	5.36	5.43	5.39	5.49	5.48	5.57	5.56	5.45	5.52	5.48	5.50	5.43	5.47	5.40
140	6.67	6.61	6.65	6.60	6.66	6.63	6.70	6.68	6.73	6.73	6.85	6.83	6.71	6.77	6.73	6.75	6.70	6.73	6.66
145	7.87	7.81	7.84	7.82	7.87	7.88	7.96	7.92	7.96	7.97	8.05	8.06	7.94	7.97	7.93	7.97	7.93	7.97	7.90
150	8.93	8.88	8.90	8.92	9.00	9.01	9.09	9.06	9.11	9.09	9.14	9.16	9.03	9.04	9.00	9.06	9.04	9.09	9.01
155	9.75	9.73	9.76	9.78	9.87	9.92	10.00	9.98	9.97	9.96	10.00	10.02	9.87	9.86	9.85	9.90	9.91	9.98	9.92
160	10.3	10.3	10.4	10.4	10.5	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.5	10.5	10.5	10.5	10.5	10.6	10.5
165	10.8	10.8	10.8	10.9	11.0	11.0	11.1	11.1	11.0	11.0	11.0	11.0	10.9	10.9	10.9	10.9	10.9	11.0	11.0
170	11.1	11.1	11.1	11.2	11.2	11.3	11.3	11.3	11.3	11.4	11.4	11.4	11.4	11.3	11.3	11.2	11.2	11.2	11.2
175	11.5	11.5	11.5	11.6	11.6	11.5	11.5	11.6	11.6	11.7	11.7	11.6	11.7	11.7	11.8	11.7	11.6	11.5	11.5
180	11.8	11.8	11.9	11.9	11.8	11.7	11.7	11.7	11.8	11.9	11.8	11.7	11.8	11.8	11.9	11.9	11.8	11.7	11.7

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:28DEG  
Operators:LXJ  
Test Date:2024-09-30

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.401  
Humidity:65.0%  
Test Distance:5.190m [K=1.0000]  
Remarks:

TLO015-21 36V350mA CXM-9-30-90-36-AA40 53D 3000K CRI90 NA 20240930 (Cir

## LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: TLO015-21	TYPE:53D	WEIGHT:1
SPEC.:3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.:46	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	1091	1091	1091	1091	1091														
5	1077	1083	1092	1094	1095														
10	1034	1043	1050	1064	1070														
15	922	915	910	932	958														
20	765	750	747	778	800														
25	595	584	581	611	617														
30	434	431	426	444	448														
35	300	298	300	302	307														
40	194	195	196	194	198														
45	110	113	113	114	115														
50	48.6	50.3	50.1	49.5	50.4														
55	23.4	24.0	24.1	24.1	24.1														
60	11.6	12.3	12.3	12.5	12.3														
65	4.10	4.47	4.40	4.66	4.53														
70	1.20	1.31	1.29	1.36	1.36														
75	0.56	0.55	0.57	0.55	0.56														
80	0.35	0.35	0.36	0.36	0.38														
85	0.17	0.16	0.16	0.16	0.17														
90	0.18	0.18	0.16	0.18	0.16														
95	0.24	0.25	0.23	0.25	0.23														
100	0.39	0.39	0.37	0.37	0.36														
105	0.62	0.62	0.60	0.60	0.59														
110	0.99	0.97	0.96	0.94	0.94														
115	1.51	1.47	1.48	1.45	1.45														
120	2.22	2.17	2.18	2.14	2.15														
125	3.13	3.07	3.09	3.03	3.06														
130	4.22	4.16	4.17	4.09	4.15														
135	5.42	5.36	5.39	5.31	5.33														
140	6.68	6.60	6.64	6.54	6.55														
145	7.90	7.81	7.81	7.70	7.72														
150	9.00	8.90	8.85	8.74	8.77														
155	9.86	9.76	9.67	9.57	9.60														
160	10.5	10.4	10.2	10.2	10.2														
165	10.9	10.8	10.6	10.6	10.6														
170	11.2	11.1	11.0	11.0	11.0														
175	11.5	11.6	11.5	11.4	11.4														
180	11.7	11.8	11.9	11.8	11.7														

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:28DEG  
Operators:LXJ  
Test Date:2024-09-30

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.401  
Humidity:65.0%  
Test Distance:5.190m [K=1.0000]  
Remarks: