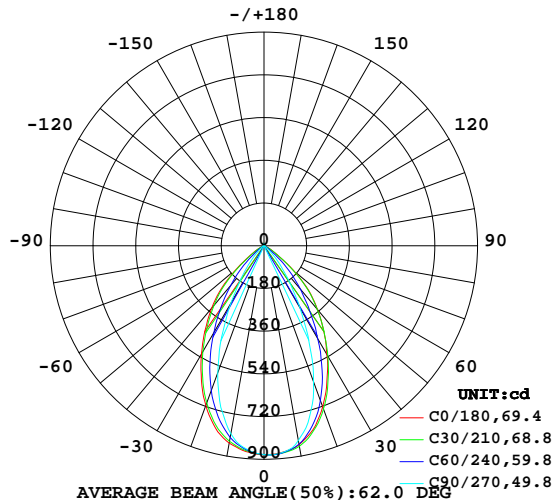


## LUMINAIRE PHOTOMETRIC TEST REPORT

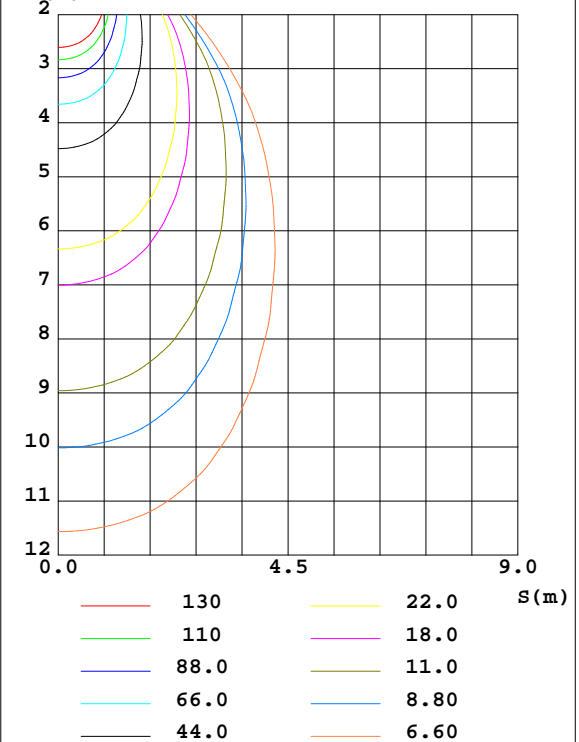
NAME: TLO015-21	TYPE: 62D	WEIGHT: 1
SPEC.: 3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.: 46	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 65.14 lm/W			
MODEL		Imax(cd)	882.1	S/MH(C0/180)	0.98
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)	0.76
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	931.69	$\eta$ UP,DN(C0-180)	1.2,50.4
NOMINAL FLUX(lm)	931.693	CIE CLASS	DIRECT	$\eta$ UP,DN(C180-360)	1.2,47.2
LAMPS INSIDE	1	$\eta$ up(%)	2.4	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	120	$\eta$ down(%)	97.6	CIBSE SHR MAX	0.95

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:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

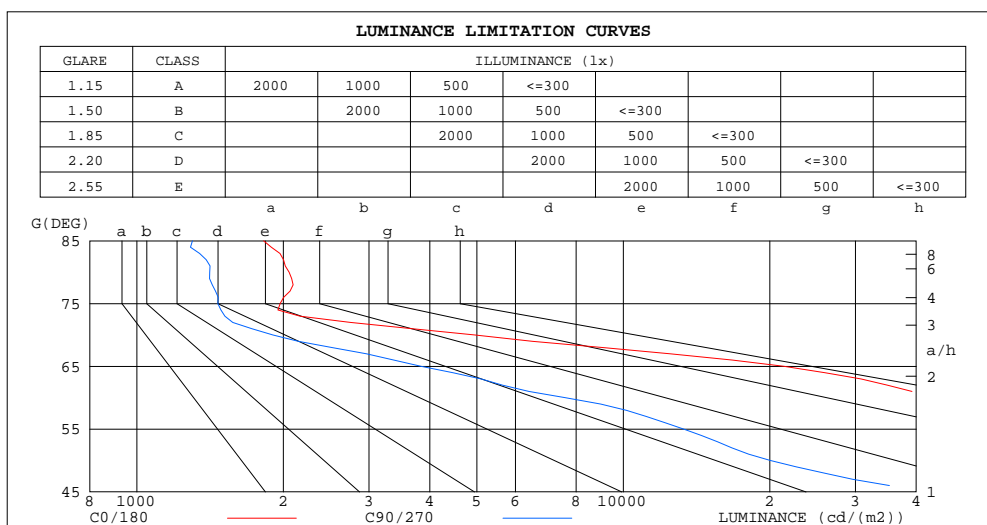
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum, lamp
10	851.0	856.5	833.5	839.8	844.5	827.8	804.1	814.5	0- 10	81.93	81.93	8.79,8.79
20	722.5	728.9	611.0	668.0	716.7	684.0	571.5	616.3	10- 20	212.5	294.5	31.6,31.6
30	530.9	522.6	305.2	405.4	527.2	480.5	277.8	364.6	20- 30	249.6	544.1	58.4,58.4
40	351.3	315.0	109.9	189.9	342.1	285.0	93.56	160.7	30- 40	200.5	744.5	79.9,79.9
50	164.2	126.9	21.38	45.67	149.2	101.4	20.40	38.69	40- 50	118.2	862.8	92.6,92.6
60	36.33	25.40	6.303	10.75	35.14	20.69	5.965	10.49	50- 60	37.94	900.7	96.7,96.7
70	2.801	2.308	1.080	1.422	1.877	1.483	1.056	1.308	60- 70	7.928	908.7	97.5,97.5
80	0.5913	0.5491	0.4069	0.4265	0.4577	0.4155	0.3352	0.3897	70- 80	0.8297	909.5	97.6,97.6
90	0.2906	0.2584	0.1797	0.2014	0.2801	0.2118	0.1525	0.1570	80- 90	0.2758	909.8	97.6,97.6
100	0.7419	0.6230	0.2958	0.4117	0.7411	0.5933	0.2676	0.3758	90-100	0.3647	910.1	97.7,97.7
110	1.656	1.409	0.7261	0.9695	1.641	1.396	0.6900	0.9902	100-110	0.8514	911.0	97.8,97.8
120	3.048	2.694	1.772	2.063	3.041	2.692	1.718	2.171	110-120	1.723	912.7	98,98
130	4.786	4.428	3.548	3.751	4.839	4.420	3.502	3.956	120-130	2.890	915.6	98.3,98.3
140	6.510	6.333	5.783	5.837	6.642	6.239	5.758	6.072	130-140	3.962	919.6	98.7,98.7
150	7.884	8.069	8.053	7.784	8.109	7.791	7.909	8.033	140-150	4.424	924.0	99.2,99.2
160	9.003	9.369	9.563	9.108	9.321	8.981	9.282	9.328	150-160	3.980	928.0	99.6,99.6
170	10.11	10.30	10.19	10.07	10.41	10.06	9.999	10.06	160-170	2.743	930.7	99.9,99.9
180	10.89	10.88	10.63	10.72	10.90	10.87	10.63	10.72	170-180	0.9917	931.7	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

$\gamma$  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:

# LUMINANCE LIMITATION CURVES

NAME: TLO015-21	TYPE:62D	WEIGHT:1
SPEC.:3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.:46	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1822	1301
80	2056	1412
75	1970	1467
70	4945	1902
65	21378	3838
60	43871	7594
55	80539	13302
50	154300	20037
45	227288	43489

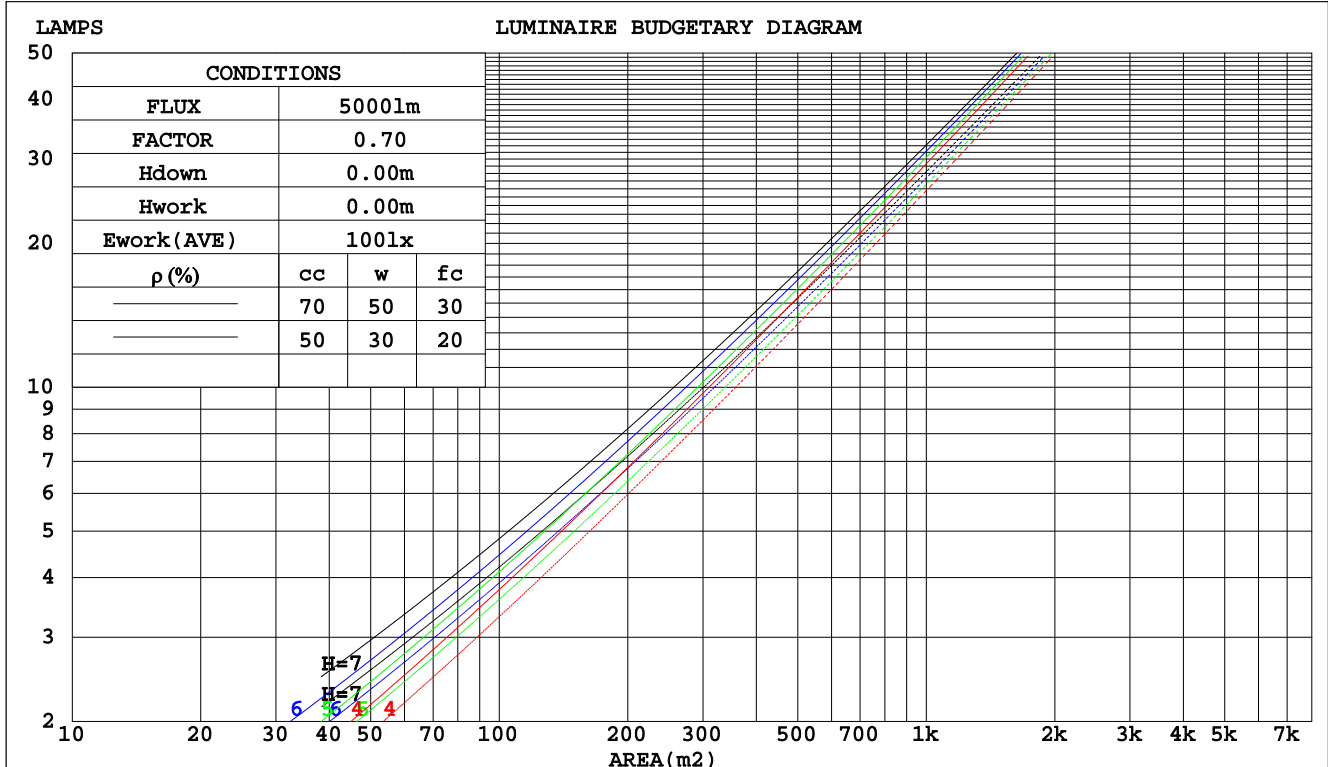
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:28DEG  
Operators:LXJ  
Test Date:2024-09-30

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:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: TLO015-21	TYPE:62D	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	1.09	1.07	1.04	1.07	1.05	1.02	1.02	1.01	.99	.98	.97	.95	.95	.93	.92	.90
2.0	1.01	.96	.93	.99	.95	.91	.95	.92	.89	.92	.89	.87	.89	.86	.85	.83
3.0	.93	.87	.83	.91	.86	.82	.88	.84	.81	.85	.82	.79	.83	.80	.78	.76
4.0	.86	.80	.75	.85	.79	.75	.82	.77	.73	.80	.76	.72	.78	.74	.71	.69
5.0	.80	.73	.68	.78	.72	.68	.76	.71	.67	.74	.70	.66	.73	.69	.66	.64
6.0	.74	.67	.63	.73	.67	.62	.71	.66	.62	.70	.65	.61	.68	.64	.61	.59
7.0	.69	.62	.58	.68	.62	.58	.67	.61	.57	.65	.60	.57	.64	.59	.56	.55
8.0	.64	.58	.53	.64	.58	.53	.62	.57	.53	.61	.56	.53	.60	.56	.52	.51
9.0	.60	.54	.50	.60	.54	.50	.59	.53	.49	.58	.53	.49	.57	.52	.49	.47
10.0	.57	.51	.46	.56	.50	.46	.55	.50	.46	.54	.49	.46	.53	.49	.46	.44



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 62D 3000K CRI90 NA 20240930 (Rec

## WEC AND CCEC

NAME: TLO015-21	TYPE:62D	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	.194	.110	.035	.186	.106	.034	.172	.099	.032	.160	.092	.030	.148	.086	.028	
2.0	.188	.103	.032	.181	.100	.031	.169	.094	.029	.158	.089	.028	.148	.084	.026	
3.0	.180	.096	.029	.174	.093	.028	.164	.089	.027	.154	.084	.026	.145	.080	.025	
4.0	.171	.089	.026	.166	.087	.026	.157	.083	.025	.149	.080	.024	.141	.077	.023	
5.0	.163	.083	.024	.159	.082	.024	.151	.079	.023	.143	.076	.022	.136	.073	.022	
6.0	.155	.078	.022	.152	.077	.022	.144	.074	.022	.138	.072	.021	.131	.069	.021	
7.0	.148	.073	.021	.145	.072	.021	.138	.070	.020	.132	.068	.020	.127	.066	.019	
8.0	.141	.069	.019	.138	.068	.019	.132	.066	.019	.127	.064	.019	.122	.063	.018	
9.0	.135	.065	.018	.132	.064	.018	.127	.063	.018	.122	.061	.017	.117	.060	.017	
10.0	.129	.062	.017	.126	.061	.017	.122	.060	.017	.117	.058	.017	.113	.057	.016	

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	.208	.208	.208	.178	.178	.178	.122	.122	.122	.070	.070	.070	.022	.022	.022	
1.0	.190	.175	.162	.163	.150	.139	.111	.103	.096	.064	.060	.056	.021	.019	.018	
2.0	.177	.151	.129	.151	.130	.111	.104	.090	.078	.060	.052	.046	.019	.017	.015	
3.0	.165	.132	.105	.142	.114	.091	.097	.079	.064	.056	.046	.038	.018	.015	.012	
4.0	.156	.118	.088	.134	.102	.077	.092	.071	.054	.053	.041	.032	.017	.014	.011	
5.0	.148	.106	.076	.127	.092	.066	.088	.064	.046	.051	.038	.028	.016	.012	.009	
6.0	.141	.097	.066	.121	.084	.057	.084	.059	.041	.049	.035	.024	.016	.011	.008	
7.0	.135	.090	.059	.116	.078	.051	.080	.055	.036	.047	.032	.022	.015	.011	.007	
8.0	.129	.084	.053	.111	.073	.046	.077	.051	.033	.045	.030	.020	.014	.010	.006	
9.0	.124	.079	.048	.107	.069	.042	.074	.048	.030	.043	.028	.018	.014	.009	.006	
10.0	.119	.075	.045	.103	.065	.039	.071	.046	.028	.042	.027	.017	.014	.009	.005	

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 62D 3000K CRI90 NA 20240930 (Rec

UGR(Unified Glare Rating) Table

NAME: TLO015-21						TYPE:62D			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	2H	28.7	29.8	29.0	30.0	30.2	24.4	25.4	24.7	25.7	25.9
	3H	28.6	29.5	28.9	29.8	30.0	24.2	25.2	24.5	25.4	25.7
	4H	28.5	29.4	28.8	29.6	29.9	24.1	25.0	24.4	25.3	25.6
	6H	28.4	29.2	28.7	29.5	29.8	24.0	24.9	24.4	25.2	25.5
	8H	28.3	29.1	28.7	29.4	29.8	24.0	24.8	24.3	25.1	25.4
	12H	28.3	29.1	28.7	29.4	29.7	23.9	24.7	24.3	25.0	25.3
4H	2H	28.5	29.4	28.8	29.7	29.9	24.3	25.2	24.7	25.5	25.8
	3H	28.3	29.1	28.7	29.4	29.7	24.2	24.9	24.5	25.2	25.6
	4H	28.2	28.9	28.6	29.3	29.6	24.1	24.8	24.5	25.1	25.5
	6H	28.1	28.7	28.6	29.1	29.5	24.0	24.6	24.4	24.9	25.3
	8H	28.1	28.6	28.5	29.0	29.5	23.9	24.5	24.3	24.9	25.3
	12H	28.0	28.5	28.5	29.0	29.4	23.9	24.4	24.3	24.8	25.2
8H	4H	28.1	28.6	28.5	29.0	29.5	23.9	24.5	24.3	24.9	25.3
	6H	28.0	28.4	28.4	28.9	29.3	23.8	24.3	24.3	24.7	25.2
	8H	27.9	28.3	28.4	28.8	29.3	23.8	24.2	24.2	24.6	25.1
	12H	27.9	28.2	28.4	28.7	29.2	23.7	24.0	24.2	24.5	25.1
12H	4H	28.0	28.5	28.5	29.0	29.4	23.9	24.4	24.3	24.8	25.2
	6H	27.9	28.3	28.4	28.8	29.3	23.8	24.2	24.2	24.6	25.1
	8H	27.9	28.2	28.4	28.7	29.2	23.7	24.0	24.2	24.5	25.1
Variations with the observer position at spacings:											
S = 1.0H		+ 2.1 / - 5.4					+ 3.2 / - 9.6				
1.5H		+ 1.8 / - 4.1					+ 3.4 / - 8.2				
2.0H		+ 4.9 / - 7.8					+ 4.8 / -10.0				

CIE Pub.117, 931.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.2)

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:

NAME: TLO015-21	TYPE:62D	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) $k(RI) \times RCR = 5$									
k = 0.60	79	71	66	78	71	66	77	70	66	62
0.80	87	80	76	87	80	75	85	79	75	70
1.00	94	87	82	92	86	82	90	86	81	76
1.25	99	92	88	97	92	88	95	90	87	81
1.50	102	96	92	100	95	91	98	93	90	85
2.00	106	101	97	104	99	96	101	97	94	88
2.50	108	103	100	106	102	99	102	99	96	89
3.00	110	106	102	107	104	101	104	101	99	91
4.00	112	108	106	109	107	104	105	103	101	93
5.00	113	110	108	111	108	106	106	104	103	94
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended				SHRNM = 1.25		

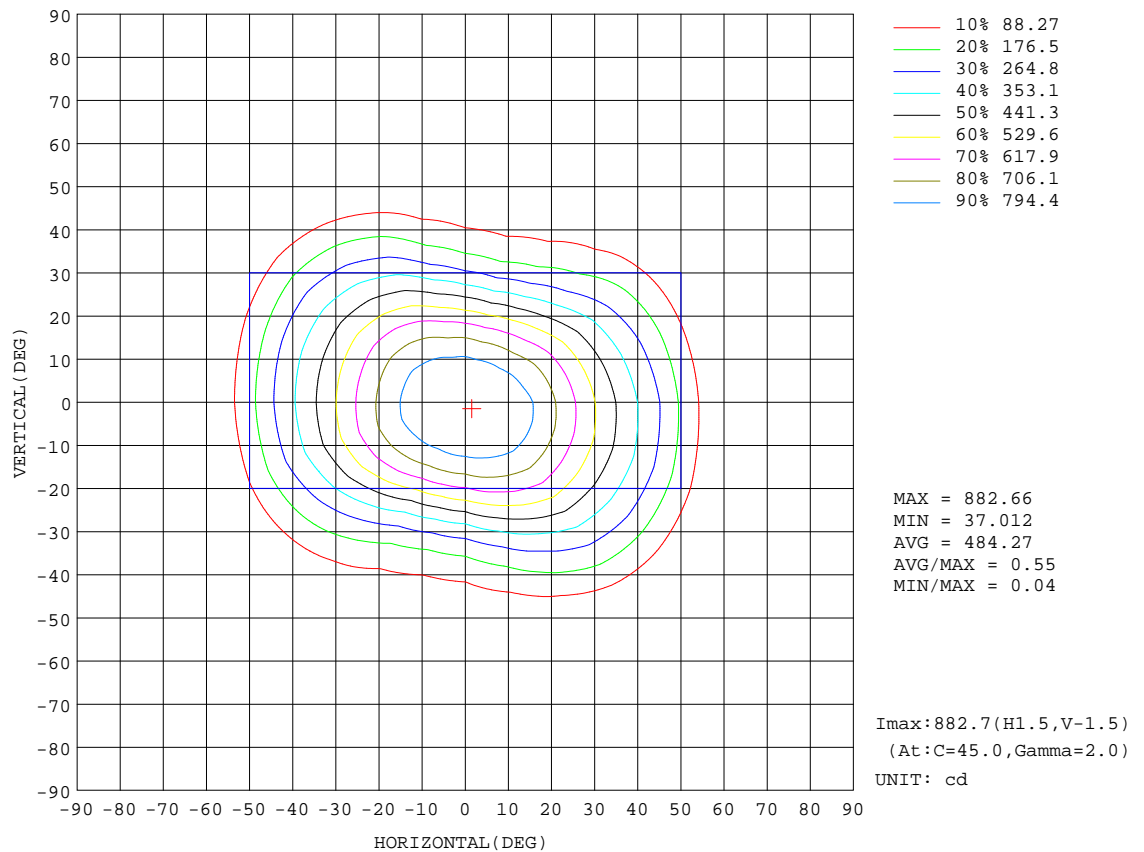
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.190m [K=1.0000]
Remarks:

```

# ISOCANDELA DIAGRAM

NAME: TLO015-21	TYPE:62D	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

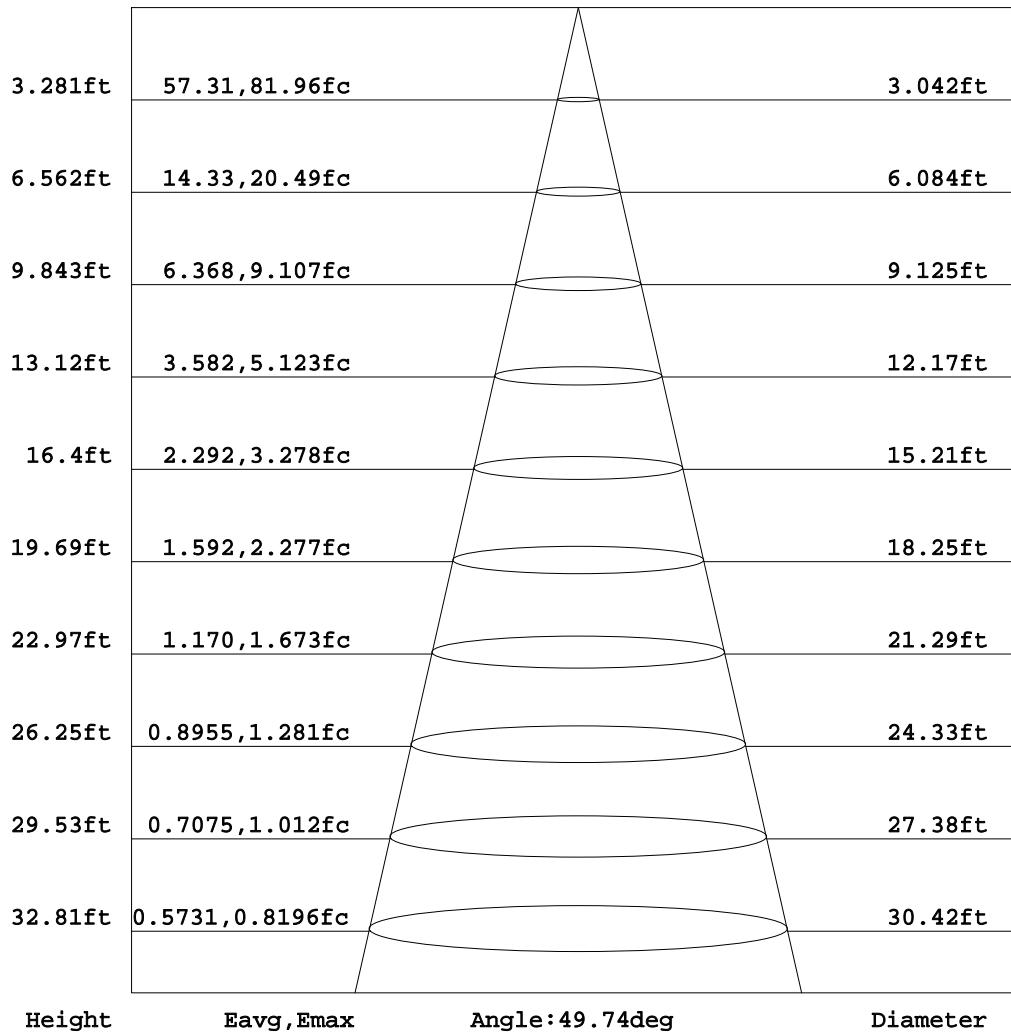
γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.401  
Humidity:65.0%  
Test Distance:5.190m [K=1.0000]  
Remarks:



### AAI Figure

NAME: TLO015-21	TYPE:62D	WEIGHT:1
SPEC.:3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.:46	Shielding Angle:

Flux out:421.4 lm



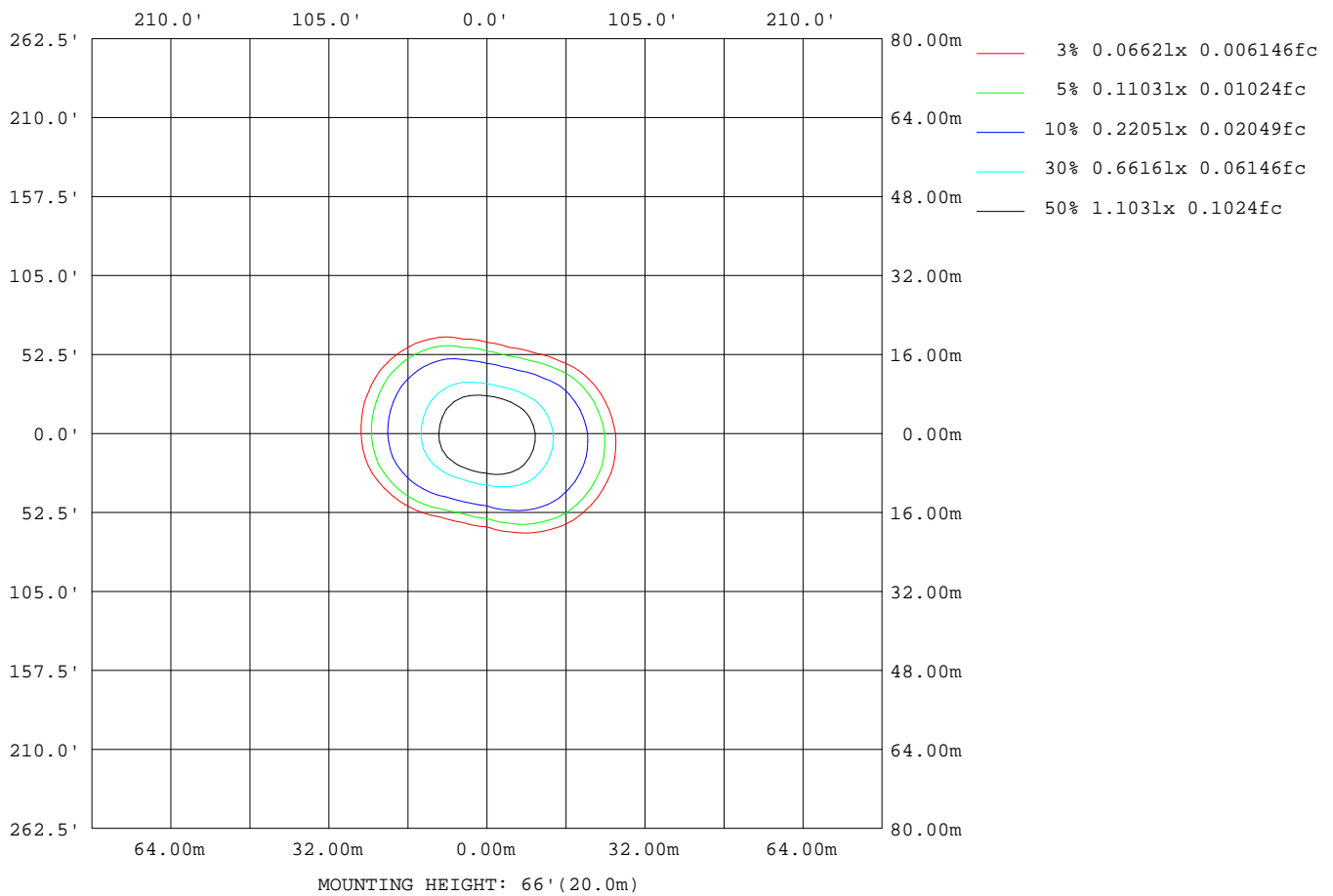
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:

### ISOLUX DIAGRAM

NAME: TLO015-21	TYPE:62D	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:62D	WEIGHT:1
SPEC.:3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.:46	Shielding Angle:

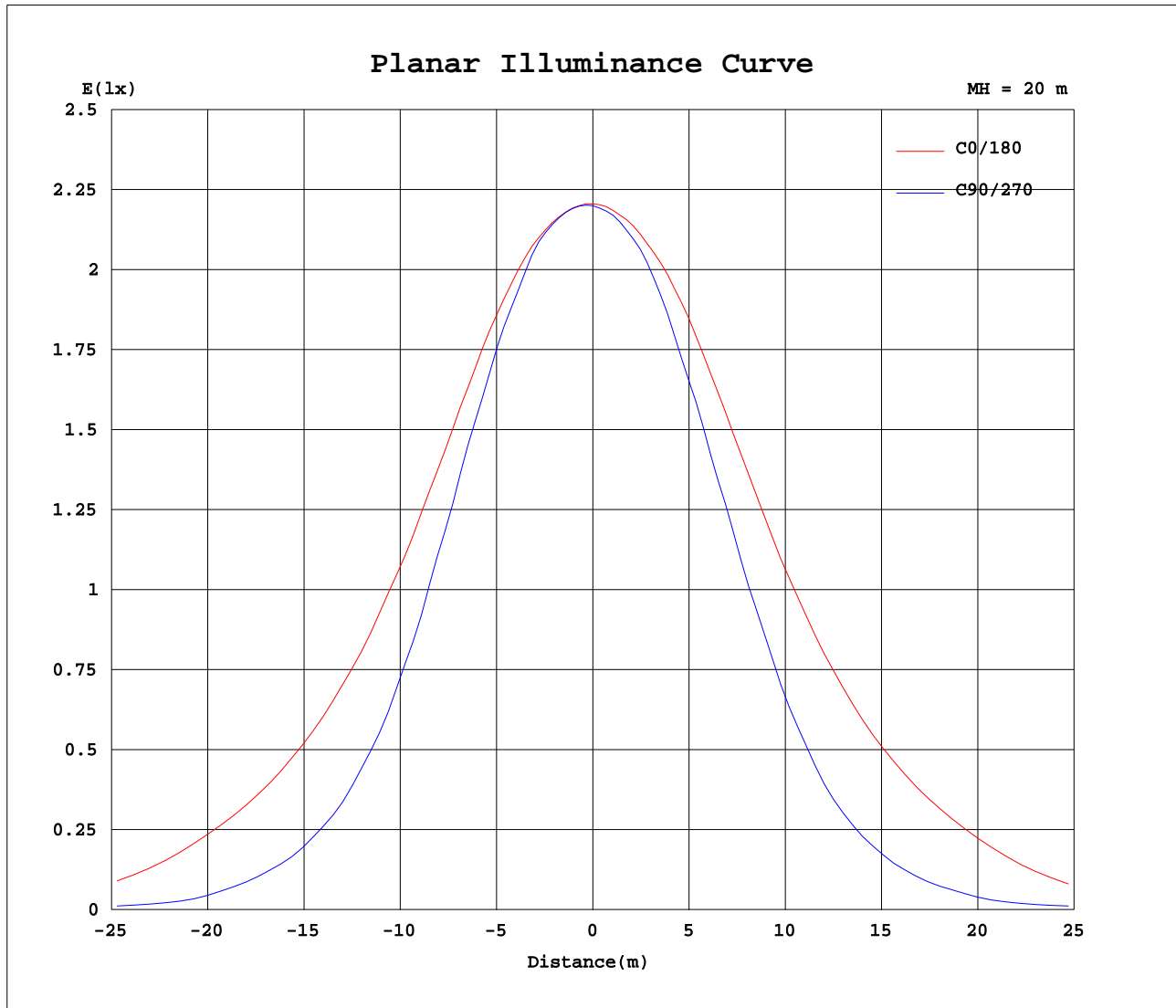
AvgL	cd/m2
L_0~180(65)av	19239
L_0~180(75)av	1847
L_0~180(85)av	1610
L_90~270(65)av	3745
L_90~270(75)av	1412
L_90~270(85)av	1132
L_45(65)av	8651
L_45(75)av	1627
L_45(85)av	1331

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:

## LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: TLO015-21	TYPE:62D	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	880	880	880	880	880	880	880	880	880	880	880	880	880	880	880	880	880	880	880
5	874	876	877	878	877	877	875	874	874	873	872	872	870	869	867	864	863	860	859
10	851	857	858	856	849	844	833	834	832	840	842	846	845	841	837	828	820	807	804
15	802	809	807	805	786	769	745	746	749	769	786	798	794	788	783	767	746	715	705
20	722	734	733	729	694	657	611	609	624	668	702	724	717	711	705	684	650	599	571
25	628	641	638	632	579	517	451	445	469	540	598	630	624	618	613	584	539	465	422
30	531	545	538	523	454	373	305	295	322	405	483	527	527	523	515	480	423	333	278
35	438	453	441	415	337	253	189	179	204	285	369	426	432	429	418	380	315	218	167
40	351	365	349	315	239	160	110	100	121	190	266	328	342	343	328	285	219	133	93.6
45	266	278	261	222	152	89.2	51.1	45.1	59.9	111	174	234	252	252	238	193	134	70.1	43.9
50	164	179	160	127	72.5	35.2	21.4	20.1	23.8	45.7	86.0	132	149	149	137	101	61.6	29.2	20.4
55	76.5	85.5	74.2	54.2	29.5	17.6	12.7	11.9	13.6	19.8	35.0	57.9	70.1	70.9	63.0	43.6	25.3	16.0	12.4
60	36.3	40.3	34.6	25.4	14.7	9.87	6.30	5.74	6.97	10.8	17.0	27.7	35.1	35.7	31.2	20.7	12.4	8.13	5.97
65	15.0	17.5	13.9	9.88	5.16	3.89	2.69	2.51	2.93	4.11	5.71	10.1	12.0	11.8	10.2	6.40	4.27	3.19	2.56
70	2.80	3.06	2.61	2.31	1.75	1.46	1.08	1.03	1.11	1.42	1.57	2.00	1.88	1.84	1.80	1.48	1.33	1.13	1.06
75	0.84	0.85	0.84	0.78	0.74	0.66	0.63	0.61	0.62	0.65	0.72	0.75	0.74	0.77	0.74	0.72	0.66	0.62	0.58
80	0.59	0.61	0.59	0.55	0.50	0.44	0.41	0.38	0.40	0.43	0.46	0.49	0.46	0.47	0.44	0.42	0.38	0.36	0.34
85	0.26	0.27	0.27	0.24	0.23	0.19	0.19	0.17	0.18	0.18	0.20	0.22	0.20	0.20	0.19	0.17	0.16	0.15	0.14
90	0.29	0.31	0.28	0.26	0.21	0.20	0.18	0.18	0.18	0.20	0.22	0.28	0.28	0.27	0.27	0.21	0.19	0.15	0.15
95	0.46	0.48	0.45	0.39	0.31	0.26	0.21	0.22	0.21	0.27	0.34	0.43	0.46	0.46	0.44	0.35	0.28	0.20	0.19
100	0.74	0.77	0.72	0.62	0.49	0.38	0.30	0.29	0.31	0.41	0.53	0.68	0.74	0.76	0.71	0.59	0.46	0.33	0.27
105	1.14	1.17	1.10	0.96	0.77	0.59	0.45	0.42	0.48	0.64	0.83	1.03	1.13	1.17	1.08	0.94	0.73	0.55	0.42
110	1.66	1.68	1.62	1.41	1.18	0.91	0.73	0.67	0.76	0.97	1.25	1.50	1.64	1.70	1.59	1.40	1.12	0.88	0.69
115	2.30	2.33	2.25	1.99	1.71	1.38	1.15	1.07	1.19	1.44	1.79	2.09	2.28	2.36	2.21	1.98	1.64	1.35	1.11
120	3.05	3.08	3.00	2.69	2.38	2.01	1.77	1.65	1.80	2.06	2.46	2.80	3.04	3.13	2.95	2.69	2.30	2.00	1.72
125	3.90	3.94	3.85	3.52	3.19	2.80	2.57	2.44	2.59	2.84	3.25	3.61	3.91	4.01	3.79	3.51	3.10	2.80	2.52
130	4.79	4.84	4.75	4.43	4.11	3.74	3.55	3.39	3.54	3.75	4.16	4.51	4.84	4.91	4.70	4.42	4.02	3.74	3.50
135	5.67	5.72	5.67	5.39	5.13	4.80	4.63	4.49	4.61	4.77	5.12	5.44	5.77	5.80	5.60	5.33	4.99	4.78	4.60
140	6.51	6.56	6.53	6.33	6.18	5.92	5.78	5.66	5.73	5.84	6.09	6.35	6.64	6.63	6.46	6.24	5.99	5.87	5.76
145	7.26	7.32	7.32	7.24	7.18	7.03	6.96	6.84	6.86	6.87	7.00	7.17	7.44	7.37	7.22	7.07	6.93	6.93	6.89
150	7.88	7.97	8.03	8.07	8.12	8.06	8.05	7.93	7.88	7.78	7.80	7.87	8.11	8.02	7.88	7.79	7.76	7.87	7.91
155	8.45	8.55	8.66	8.76	8.88	8.93	8.95	8.82	8.67	8.51	8.49	8.50	8.72	8.62	8.47	8.42	8.45	8.62	8.73
160	9.00	9.11	9.25	9.37	9.50	9.58	9.56	9.44	9.24	9.11	9.08	9.10	9.32	9.20	9.05	8.98	9.05	9.18	9.28
165	9.59	9.69	9.76	9.91	9.99	10.0	9.96	9.84	9.70	9.63	9.59	9.66	9.90	9.78	9.64	9.54	9.56	9.64	9.71
170	10.1	10.2	10.2	10.3	10.3	10.3	10.2	10.1	10.0	10.1	10.1	10.2	10.4	10.3	10.2	10.1	9.98	9.95	10.00
175	10.5	10.6	10.6	10.7	10.6	10.5	10.4	10.4	10.4	10.5	10.5	10.5	10.8	10.7	10.7	10.6	10.5	10.4	10.3
180	10.9	10.9	10.9	10.9	10.7	10.7	10.6	10.6	10.7	10.7	10.7	10.7	10.9	10.9	10.9	10.9	10.7	10.6	10.6

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:

## LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: TLO015-21	TYPE:62D	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	880	880	880	880	880													
5	858	861	862	866	869													
10	798	806	815	830	839													
15	693	708	726	760	780													
20	556	580	616	669	698													
25	400	435	492	563	599													
30	256	293	365	451	497													
35	149	180	251	346	399													
40	82.4	104	161	251	310													
45	37.5	51.0	91.1	163	222													
50	18.8	22.7	38.7	82.4	127													
55	11.2	13.7	19.2	34.6	57.5													
60	5.12	6.88	10.5	17.1	26.6													
65	2.24	2.85	3.89	6.09	9.66													
70	0.98	1.10	1.31	1.68	1.97													
75	0.57	0.58	0.63	0.68	0.76													
80	0.33	0.34	0.39	0.44	0.50													
85	0.14	0.18	0.17	0.17	0.19													
90	0.14	0.15	0.16	0.20	0.22													
95	0.17	0.20	0.23	0.31	0.37													
100	0.24	0.30	0.38	0.51	0.62													
105	0.39	0.48	0.62	0.81	0.98													
110	0.66	0.77	0.99	1.23	1.46													
115	1.08	1.21	1.50	1.78	2.07													
120	1.70	1.84	2.17	2.48	2.81													
125	2.54	2.65	3.00	3.31	3.66													
130	3.53	3.64	3.96	4.24	4.57													
135	4.64	4.73	5.00	5.22	5.49													
140	5.81	5.88	6.07	6.21	6.40													
145	6.95	6.99	7.10	7.13	7.22													
150	8.01	8.01	8.03	7.96	7.94													
155	8.83	8.82	8.77	8.67	8.58													
160	9.39	9.39	9.33	9.25	9.18													
165	9.76	9.79	9.72	9.70	9.70													
170	10.0	10.1	10.1	10.1	10.1													
175	10.4	10.4	10.4	10.5	10.5													
180	10.6	10.7	10.7	10.7	10.7													

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: