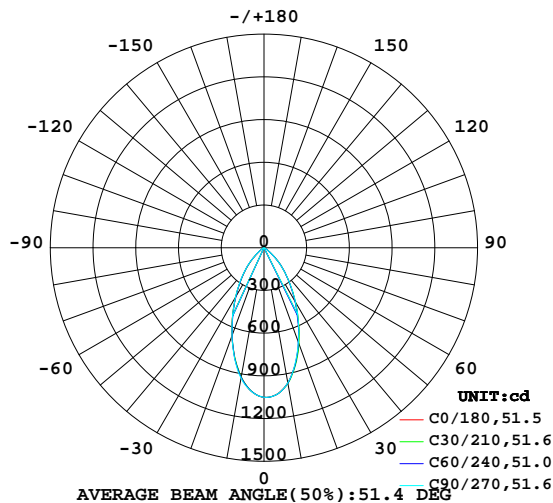


LUMINAIRE PHOTOMETRIC TEST REPORT

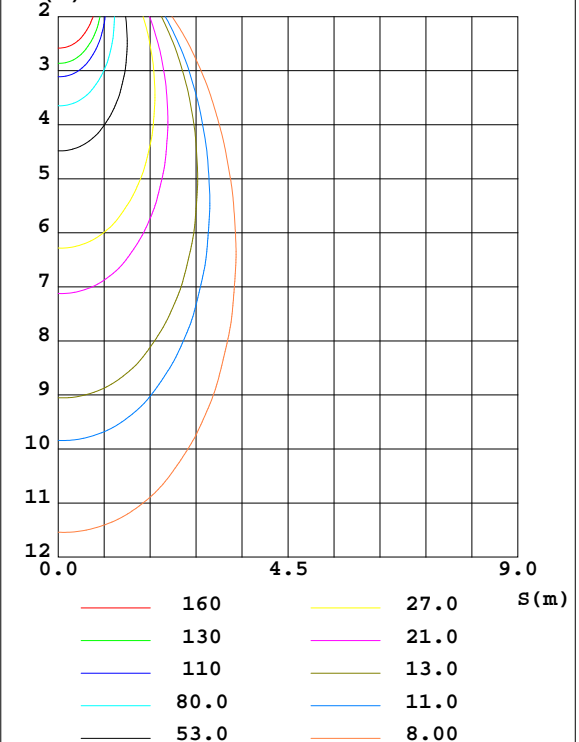
NAME: TLO015-21	TYPE: 51D	WEIGHT: 1
SPEC.: 3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.: 46	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 65.32 lm/W			
MODEL		Imax(cd)	1052	S/MH(C0/180)	0.76
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	0.76
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	940.39	η UP, DN(C0-180)	1.2, 50.8
NOMINAL FLUX(lm)	940.39	CIE CLASS	DIRECT	η UP, DN(C180-360)	1.2, 46.8
LAMPS INSIDE	1	η up(%)	2.4	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	120	η 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

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:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

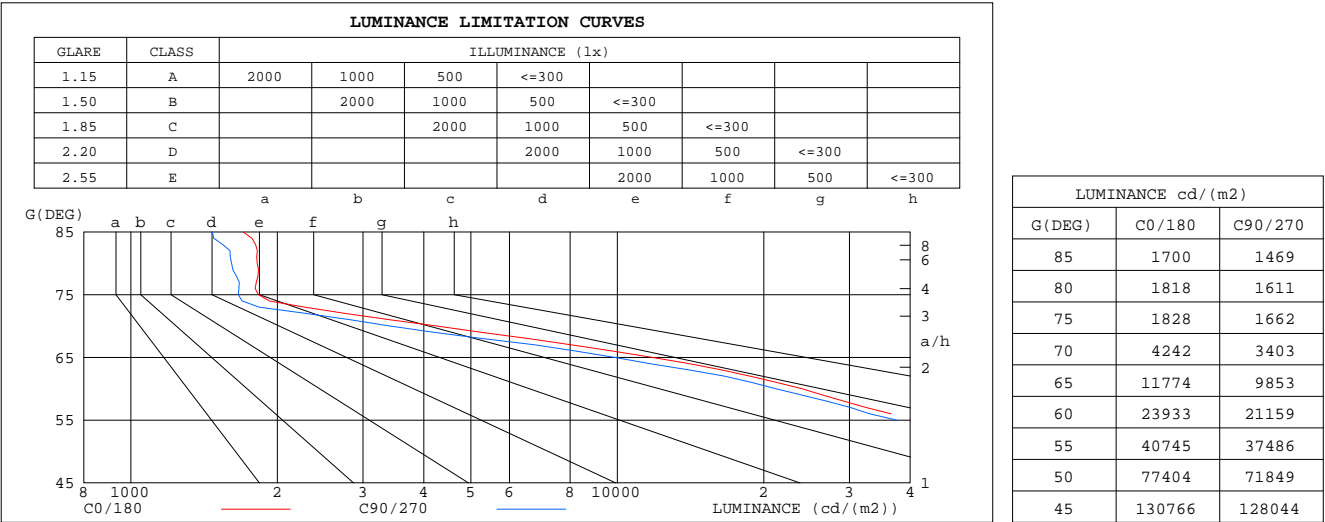
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	lum, lamp
10	963.4	970.6	963.8	958.8	923.2	917.5	930.8	933.8	0- 10	95.21	95.21	10.1,10.1
20	712.1	717.5	705.7	706.4	660.6	651.8	659.1	671.7	10- 20	228.7	323.9	34.4,34.4
30	438.8	445.6	442.1	431.2	396.9	391.2	400.1	404.8	20- 30	250.5	574.3	61.1,61.1
40	229.8	236.5	231.4	225.0	202.2	199.2	207.9	207.6	30- 40	194.2	768.5	81.7,81.7
50	81.45	84.13	76.80	75.32	61.31	61.37	66.91	69.58	40- 50	107.9	876.4	93.2,93.2
60	19.59	19.55	17.59	17.45	14.27	14.36	16.14	16.99	50- 60	33.28	909.7	96.7,96.7
70	2.375	2.337	1.935	1.917	1.291	1.333	1.668	1.743	60- 70	7.358	917.1	97.5,97.5
80	0.5169	0.4942	0.4652	0.4404	0.3415	0.3544	0.3867	0.4124	70- 80	0.8578	917.9	97.6,97.6
90	0.2223	0.2266	0.2145	0.2361	0.2115	0.1911	0.2015	0.1736	80- 90	0.2681	918.2	97.6,97.6
100	0.4549	0.4708	0.4775	0.5036	0.4928	0.4680	0.4718	0.4405	90-100	0.3436	918.6	97.7,97.7
110	1.080	1.074	1.121	1.134	1.149	1.147	1.118	1.088	100-110	0.7949	919.3	97.8,97.8
120	2.249	2.206	2.286	2.315	2.370	2.382	2.321	2.297	110-120	1.636	921.0	97.9,97.9
130	4.030	3.951	4.063	4.108	4.220	4.233	4.134	4.097	120-130	2.815	923.8	98.2,98.2
140	6.182	6.119	6.284	6.299	6.440	6.433	6.332	6.250	130-140	3.989	927.8	98.7,98.7
150	8.196	8.181	8.367	8.347	8.437	8.435	8.371	8.204	140-150	4.583	932.4	99.1,99.1
160	9.524	9.576	9.756	9.707	9.750	9.709	9.744	9.438	150-160	4.166	936.5	99.6,99.6
170	10.35	10.38	10.44	10.49	10.57	10.43	10.39	10.21	160-170	2.842	939.4	99.9,99.9
180	10.92	11.00	10.84	10.96	10.96	10.98	10.87	10.94	170-180	1.011	940.4	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:51D	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

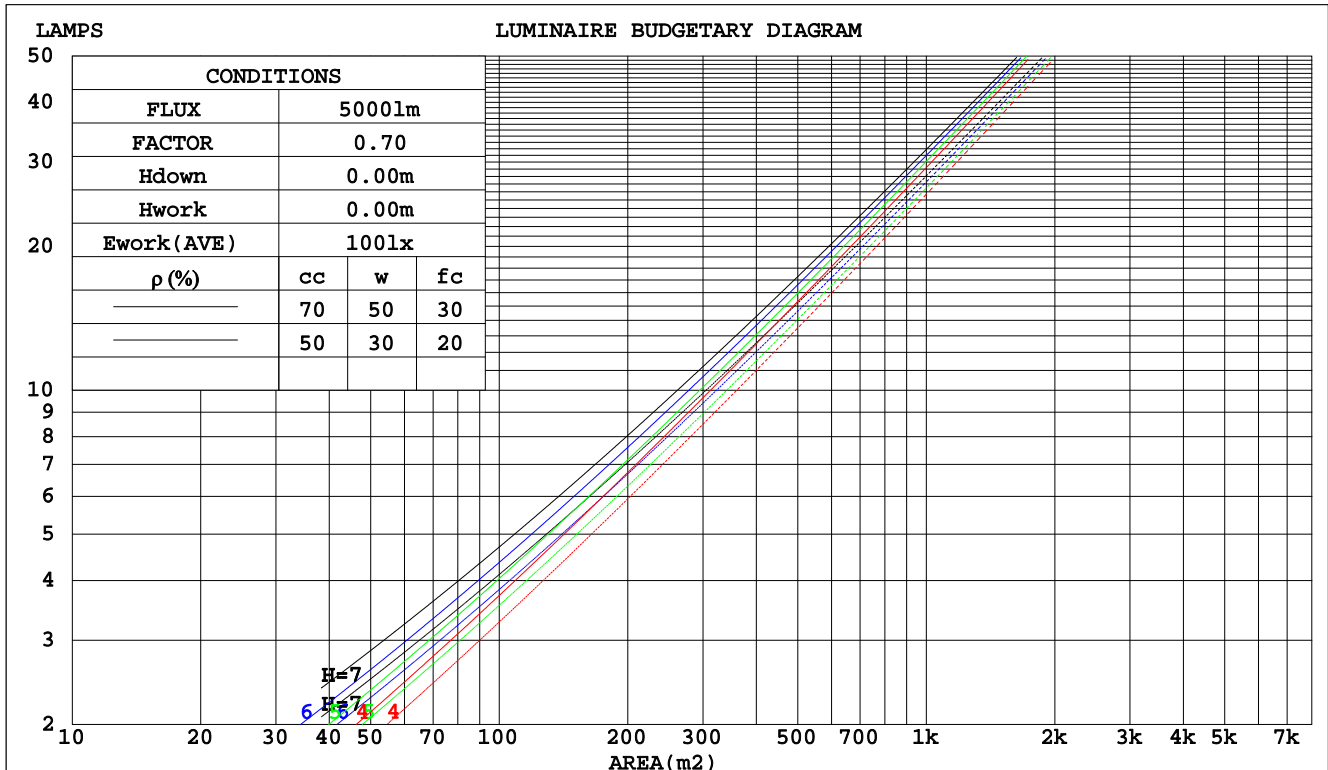
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.190m [K=1.0000]
Remarks:

TLO015-21 36V350mA CXM-9-30-90-36-AA40 51D 3000K CRI90 NA 20240930 (Cir

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: TLO015-21	TYPE:51D	WEIGHT:1
SPEC.:3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.:46	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{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	.99	.99	.97	.96	.95	.94	.93	.91
2.0	1.01	.97	.93	.99	.95	.92	.96	.92	.90	.92	.90	.87	.89	.87	.85	.83
3.0	.94	.88	.84	.92	.87	.83	.89	.85	.81	.86	.83	.80	.84	.81	.78	.77
4.0	.87	.81	.76	.85	.80	.76	.83	.78	.75	.81	.77	.73	.78	.75	.72	.71
5.0	.81	.74	.70	.80	.74	.69	.77	.72	.69	.75	.71	.68	.74	.70	.67	.65
6.0	.75	.69	.64	.74	.68	.64	.72	.67	.63	.71	.66	.63	.69	.65	.62	.60
7.0	.70	.64	.59	.69	.63	.59	.68	.63	.59	.67	.62	.58	.65	.61	.58	.56
8.0	.66	.60	.55	.65	.59	.55	.64	.58	.55	.63	.58	.54	.61	.57	.54	.52
9.0	.62	.56	.51	.61	.55	.51	.60	.55	.51	.59	.54	.51	.58	.54	.50	.49
10.0	.58	.52	.48	.58	.52	.48	.57	.52	.48	.56	.51	.48	.55	.51	.47	.46



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 51D 3000K CRI90 NA 20240930 (Cir

WEC AND CCEC

NAME: TLO015-21	TYPE:51D	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	.190	.108	.034	.183	.104	.033	.169	.097	.031	.156	.090	.029	.144	.083	.027		
2.0	.183	.101	.031	.177	.098	.030	.165	.092	.029	.154	.086	.027	.144	.081	.026		
3.0	.175	.093	.028	.170	.091	.027	.159	.086	.026	.150	.082	.025	.141	.078	.024		
4.0	.167	.087	.026	.162	.085	.025	.153	.081	.024	.145	.078	.023	.137	.074	.023		
5.0	.159	.081	.023	.155	.079	.023	.147	.076	.023	.139	.074	.022	.132	.071	.021		
6.0	.152	.076	.022	.148	.075	.021	.141	.072	.021	.134	.070	.020	.128	.067	.020		
7.0	.144	.071	.020	.141	.070	.020	.135	.068	.020	.129	.066	.019	.123	.064	.019		
8.0	.138	.067	.019	.135	.066	.019	.129	.064	.018	.124	.063	.018	.119	.061	.018		
9.0	.132	.064	.018	.129	.063	.018	.124	.061	.017	.119	.060	.017	.114	.058	.017		
10.0	.126	.060	.017	.123	.060	.017	.119	.058	.016	.114	.057	.016	.110	.055	.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	.104	.096	.064	.060	.056	.021	.019	.018	
2.0	.176	.151	.129	.151	.130	.112	.103	.090	.078	.060	.052	.046	.019	.017	.015	
3.0	.165	.132	.106	.141	.114	.092	.097	.079	.064	.056	.046	.038	.018	.015	.012	
4.0	.155	.118	.089	.133	.102	.077	.091	.071	.054	.053	.041	.032	.017	.014	.011	
5.0	.147	.106	.076	.126	.092	.066	.087	.064	.047	.050	.038	.028	.016	.012	.009	
6.0	.140	.097	.067	.120	.084	.058	.083	.059	.041	.048	.035	.024	.016	.011	.008	
7.0	.133	.090	.059	.115	.078	.052	.079	.055	.037	.046	.032	.022	.015	.011	.007	
8.0	.128	.084	.053	.110	.073	.047	.076	.051	.033	.044	.030	.020	.014	.010	.007	
9.0	.123	.079	.049	.106	.068	.043	.073	.048	.030	.043	.028	.018	.014	.009	.006	
10.0	.118	.074	.045	.102	.065	.039	.071	.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 51D 3000K CRI90 NA 20240930 (Cir

UGR(Unified Glare Rating) Table

NAME: TLO015-21					TYPE:51D			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		25.5	26.5	25.7	26.7	26.9	25.3	26.3	25.6	26.5	26.7
3H		25.3	26.2	25.6	26.5	26.7	25.1	26.1	25.4	26.3	26.5
4H		25.2	26.1	25.5	26.3	26.6	25.0	25.9	25.4	26.2	26.4
6H		25.1	25.9	25.4	26.2	26.5	24.9	25.8	25.3	26.0	26.3
8H		25.1	25.8	25.4	26.1	26.5	24.9	25.7	25.2	26.0	26.3
12H		25.0	25.8	25.4	26.1	26.4	24.8	25.6	25.2	25.9	26.2
4H 2H		25.2	26.1	25.6	26.4	26.7	25.1	26.0	25.4	26.2	26.5
3H		25.1	25.8	25.4	26.1	26.5	24.9	25.7	25.3	26.0	26.3
4H		25.0	25.7	25.4	26.0	26.4	24.8	25.5	25.2	25.8	26.2
6H		24.9	25.5	25.3	25.8	26.2	24.7	25.3	25.1	25.7	26.1
8H		24.8	25.4	25.3	25.8	26.2	24.7	25.2	25.1	25.6	26.0
12H		24.8	25.3	25.2	25.7	26.1	24.6	25.1	25.1	25.5	26.0
8H 4H		24.8	25.4	25.3	25.8	26.2	24.7	25.2	25.1	25.6	26.0
6H		24.7	25.2	25.2	25.6	26.1	24.6	25.0	25.0	25.4	25.9
8H		24.7	25.1	25.2	25.5	26.0	24.5	24.9	25.0	25.4	25.9
12H		24.6	25.0	25.1	25.4	26.0	24.5	24.8	25.0	25.3	25.8
12H 4H		24.8	25.3	25.2	25.7	26.1	24.6	25.1	25.1	25.5	26.0
6H		24.7	25.1	25.2	25.5	26.0	24.5	24.9	25.0	25.4	25.9
8H		24.6	25.0	25.1	25.4	26.0	24.5	24.8	25.0	25.3	25.8
Variations with the observer position at spacings:											
S = 1.0H		+ 2.3 / - 6.7					+ 2.3 / - 7.0				
1.5H		+ 2.7 / - 5.0					+ 2.8 / - 5.3				
2.0H		+ 5.2 / - 7.6					+ 5.2 / - 7.9				

CIE Pub.117, 940.4 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -0.2$)

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:

TLO015-21 36V350mA CXM-9-30-90-36-AA40 51D 3000K CRI90 NA 20240930 (Cir

UTILIZATION FACTORS TABLE

NAME: TLO015-21	TYPE:51D	WEIGHT:1
SPEC.:3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.:46	Shielding Angle:

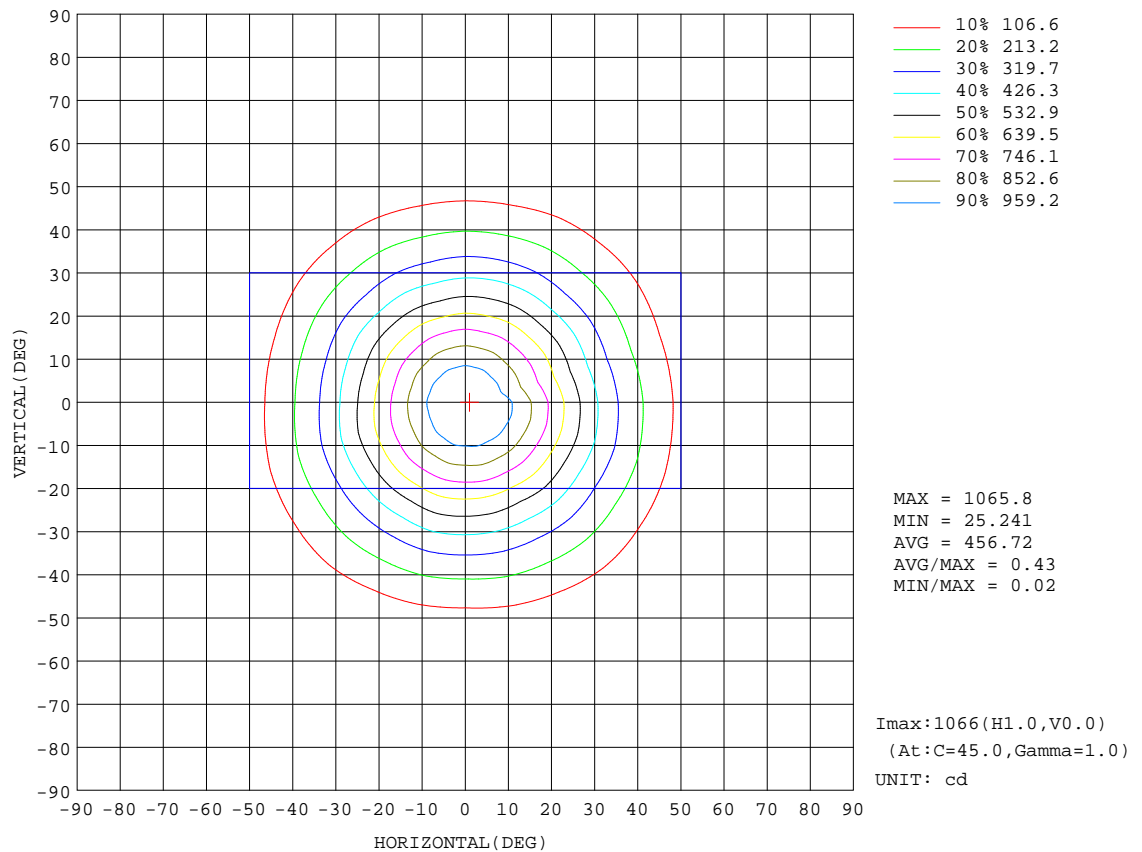
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	80	72	68	79	72	68	78	72	68	63
0.80	88	81	77	88	81	77	86	80	76	72
1.00	94	88	83	93	87	83	91	87	82	78
1.25	99	93	89	98	92	88	95	91	87	82
1.50	102	97	93	101	96	92	98	94	91	86
2.00	106	101	97	104	100	97	101	98	95	89
2.50	108	104	100	106	102	99	102	99	97	90
3.00	110	106	103	108	104	101	104	101	99	92
4.00	112	109	106	110	107	105	106	103	102	93
5.00	113	111	108	111	109	107	106	105	103	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

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ 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: 51D	WEIGHT: 1
SPEC.: 3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.: 46	Shielding Angle:



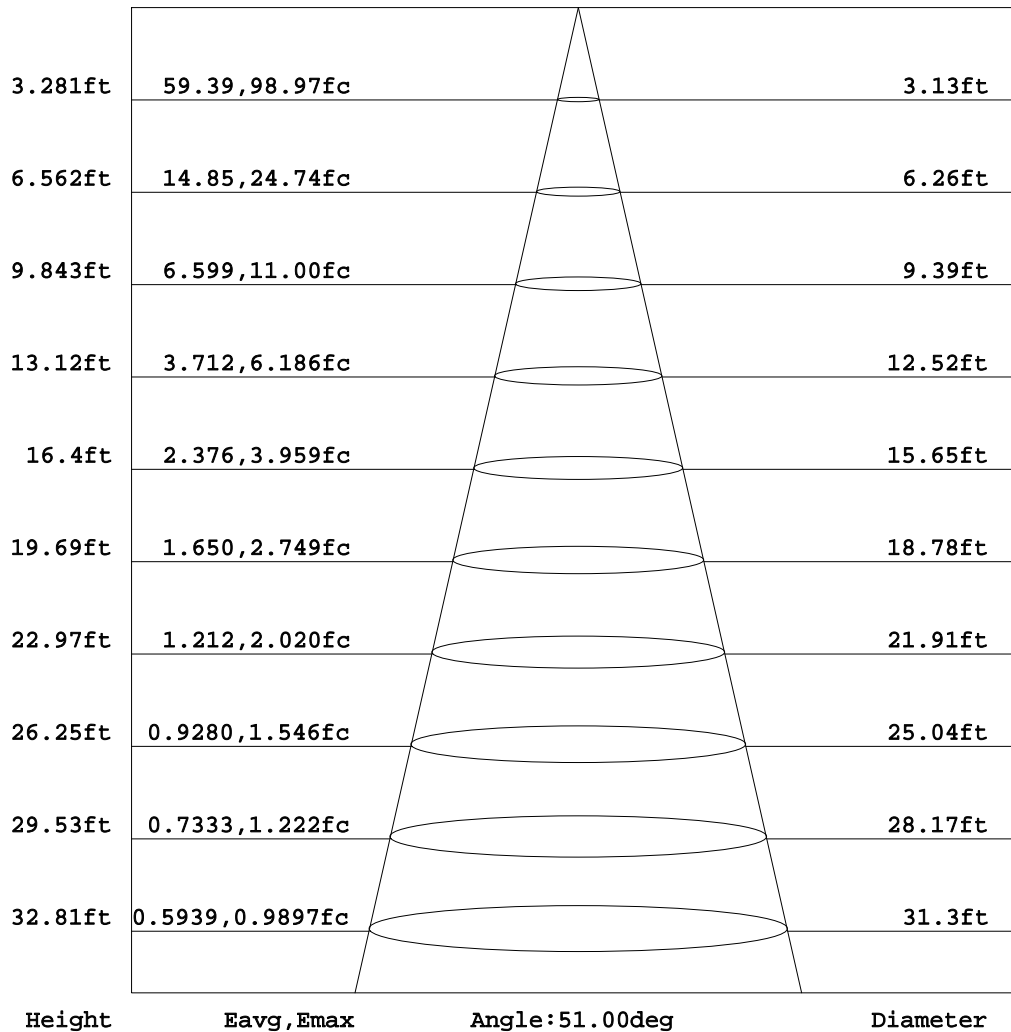
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 28DEG
Operators: LXJ
Test Date: 2024-09-30

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: 51D	WEIGHT: 1
SPEC.: 3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.: 46	Shielding Angle:

Flux out: 477.8 lm



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

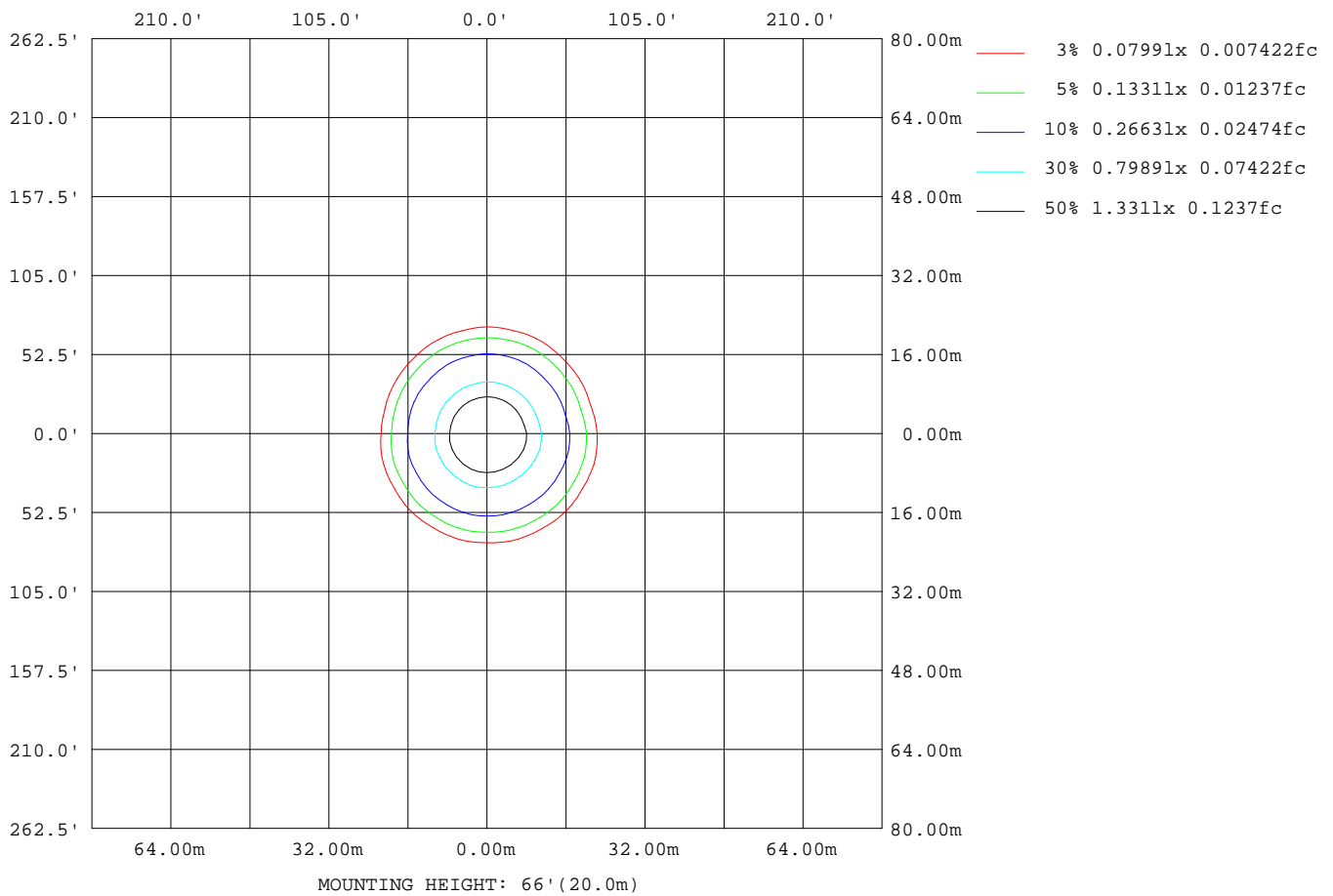
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 28DEG
Operators: LXJ
Test Date: 2024-09-30

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 51D 3000K CRI90 NA 20240930 (Cir

ISOLUX DIAGRAM

NAME: TLO015-21	TYPE: 51D	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:

TLO015-21 36V350mA CXM-9-30-90-36-AA40 51D 3000K CRI90 NA 20240930 (Cir

LED Avg.L Report

NAME: TLO015-21	TYPE:51D	WEIGHT:1
SPEC.:3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.:46	Shielding Angle:

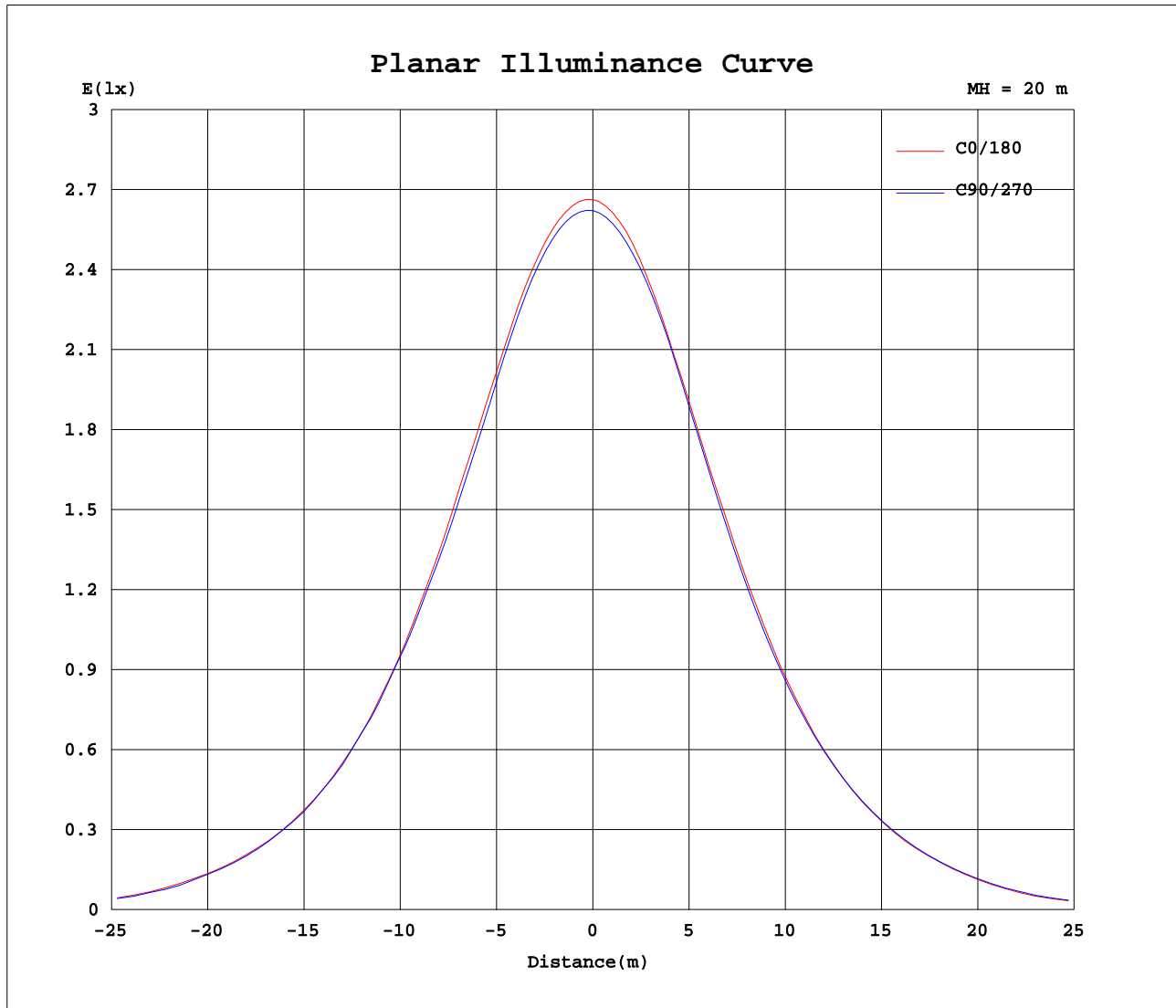
AvgL	cd/m2
L_0~180(65)av	9337
L_0~180(75)av	1598
L_0~180(85)av	1426
L_90~270(65)av	9236
L_90~270(75)av	1605
L_90~270(85)av	1302
L_45(65)av	9349
L_45(75)av	1603
L_45(85)av	1319

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

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 51D 3000K CRI90 NA 20240930 (Cir

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: TLO015-21	TYPE:51D	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	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
5	1032	1036	1035	1037	1035	1036	1034	1035	1031	1031	1027	1026	1014	1010	1011	1009	1012	1011	1014
10	963	971	968	971	966	970	964	967	959	959	948	947	923	917	921	918	925	924	931
15	848	860	855	857	848	852	843	847	838	842	829	828	798	789	795	791	799	795	802
20	712	725	718	717	706	711	706	712	702	706	695	693	661	650	656	652	656	649	659
25	570	583	574	577	563	571	571	578	562	564	556	558	523	514	521	515	516	510	521
30	439	452	443	446	436	443	442	449	432	431	426	427	397	393	398	391	394	390	400
35	324	336	326	332	324	330	330	331	321	317	312	314	290	287	291	287	291	289	296
40	230	238	231	237	233	235	231	233	228	225	219	220	202	200	202	199	204	203	208
45	151	157	153	157	152	154	151	151	147	147	140	142	126	123	125	124	129	128	131
50	81.5	84.8	82.7	84.1	78.7	80.6	76.8	78.1	75.9	75.3	71.4	72.1	61.3	60.5	62.0	61.4	64.2	64.5	66.9
55	38.3	40.0	38.3	39.2	36.7	37.5	35.8	36.5	34.9	35.2	33.0	33.9	29.3	28.9	29.6	29.4	31.0	30.6	32.0
60	19.6	20.3	19.4	19.5	18.3	18.8	17.6	18.1	17.0	17.5	16.4	16.7	14.3	13.9	14.4	14.4	15.2	15.2	16.1
65	8.15	8.67	8.06	8.09	7.21	7.57	6.92	7.17	6.49	6.76	6.19	6.36	4.95	4.65	5.04	4.95	5.47	5.45	6.03
70	2.38	2.53	2.31	2.34	2.08	2.18	1.94	2.06	1.85	1.92	1.69	1.74	1.29	1.21	1.33	1.33	1.49	1.50	1.67
75	0.77	0.78	0.77	0.75	0.75	0.73	0.72	0.71	0.70	0.69	0.69	0.67	0.60	0.61	0.61	0.63	0.64	0.67	0.66
80	0.52	0.51	0.51	0.49	0.49	0.47	0.47	0.45	0.45	0.44	0.44	0.43	0.34	0.35	0.33	0.35	0.36	0.39	0.39
85	0.24	0.24	0.25	0.23	0.23	0.21	0.21	0.20	0.20	0.20	0.20	0.20	0.17	0.16	0.16	0.16	0.16	0.17	0.16
90	0.22	0.23	0.22	0.23	0.22	0.23	0.21	0.23	0.22	0.24	0.22	0.24	0.21	0.19	0.21	0.19	0.20	0.18	0.20
95	0.30	0.31	0.30	0.31	0.30	0.32	0.31	0.33	0.32	0.33	0.32	0.34	0.31	0.30	0.31	0.30	0.30	0.28	0.30
100	0.45	0.46	0.45	0.47	0.46	0.48	0.48	0.49	0.49	0.50	0.50	0.51	0.49	0.48	0.49	0.47	0.48	0.46	0.47
105	0.71	0.71	0.71	0.72	0.73	0.73	0.74	0.75	0.75	0.76	0.76	0.78	0.76	0.76	0.76	0.74	0.75	0.74	0.74
110	1.08	1.07	1.08	1.07	1.09	1.09	1.12	1.11	1.13	1.13	1.15	1.16	1.15	1.16	1.15	1.15	1.13	1.14	1.12
115	1.59	1.56	1.58	1.57	1.59	1.59	1.63	1.62	1.65	1.65	1.68	1.69	1.68	1.71	1.68	1.68	1.66	1.67	1.65
120	2.25	2.21	2.23	2.21	2.25	2.24	2.29	2.27	2.32	2.31	2.36	2.37	2.37	2.41	2.37	2.38	2.34	2.36	2.32
125	3.07	3.01	3.04	3.01	3.06	3.04	3.10	3.08	3.15	3.14	3.21	3.20	3.22	3.27	3.22	3.23	3.19	3.20	3.15
130	4.03	3.95	4.00	3.95	4.02	4.00	4.06	4.05	4.11	4.11	4.18	4.19	4.22	4.26	4.22	4.23	4.17	4.20	4.13
135	5.09	5.01	5.05	5.01	5.08	5.07	5.13	5.11	5.19	5.18	5.27	5.28	5.32	5.34	5.31	5.33	5.26	5.27	5.21
140	6.18	6.11	6.14	6.12	6.20	6.19	6.28	6.24	6.29	6.30	6.38	6.41	6.44	6.46	6.43	6.43	6.38	6.39	6.33
145	7.26	7.19	7.20	7.20	7.26	7.30	7.39	7.33	7.37	7.38	7.46	7.49	7.51	7.51	7.49	7.49	7.45	7.47	7.42
150	8.20	8.15	8.16	8.18	8.25	8.29	8.37	8.33	8.35	8.35	8.40	8.43	8.44	8.44	8.42	8.43	8.41	8.44	8.37
155	8.95	8.92	8.95	8.96	9.03	9.11	9.18	9.15	9.12	9.11	9.16	9.19	9.18	9.18	9.16	9.16	9.19	9.22	9.17
160	9.52	9.53	9.54	9.58	9.65	9.72	9.76	9.76	9.69	9.71	9.75	9.78	9.75	9.73	9.72	9.71	9.78	9.78	9.74
165	9.98	10.00	9.96	10.1	10.1	10.2	10.2	10.2	10.1	10.2	10.1	10.2	10.2	10.2	10.1	10.1	10.2	10.2	10.2
170	10.3	10.4	10.3	10.4	10.4	10.5	10.4	10.5	10.4	10.5	10.5	10.5	10.6	10.5	10.5	10.4	10.4	10.4	10.4
175	10.6	10.7	10.6	10.7	10.7	10.7	10.6	10.7	10.7	10.8	10.8	10.7	10.8	10.8	10.9	10.8	10.7	10.6	10.6
180	10.9	10.9	10.9	11.0	10.9	10.9	10.8	10.9	10.9	11.0	10.9	10.8	11.0	10.9	11.0	11.0	10.9	10.8	10.9

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 51D 3000K CRI90 NA 20240930 (Cir

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: TLO015-21	TYPE: 51D	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	1050	1050	1050	1050	1050													
5	1014	1017	1018	1021	1022													
10	930	936	934	940	941													
15	799	810	809	817	818													
20	659	671	672	683	681													
25	525	533	533	547	547													
30	404	407	405	418	418													
35	298	300	295	305	306													
40	208	211	208	214	215													
45	132	136	134	138	139													
50	67.6	70.4	69.6	70.9	71.5													
55	32.1	34.1	33.6	34.0	34.1													
60	16.1	17.2	17.0	17.6	17.3													
65	5.93	6.59	6.43	6.94	6.75													
70	1.61	1.81	1.74	1.92	1.88													
75	0.68	0.67	0.68	0.67	0.68													
80	0.40	0.40	0.41	0.42	0.43													
85	0.17	0.16	0.17	0.16	0.17													
90	0.18	0.20	0.17	0.19	0.17													
95	0.28	0.29	0.28	0.28	0.27													
100	0.45	0.46	0.44	0.45	0.43													
105	0.73	0.72	0.71	0.70	0.69													
110	1.12	1.10	1.09	1.06	1.06													
115	1.65	1.61	1.62	1.57	1.57													
120	2.34	2.29	2.30	2.23	2.23													
125	3.18	3.11	3.14	3.05	3.05													
130	4.16	4.09	4.10	4.02	4.02													
135	5.22	5.16	5.16	5.08	5.08													
140	6.33	6.26	6.25	6.17	6.16													
145	7.39	7.31	7.29	7.21	7.22													
150	8.34	8.25	8.20	8.12	8.10													
155	9.10	8.99	8.92	8.84	8.83													
160	9.67	9.56	9.44	9.40	9.42													
165	10.1	9.99	9.84	9.80	9.85													
170	10.4	10.3	10.2	10.2	10.2													
175	10.6	10.7	10.6	10.6	10.5													
180	10.8	10.9	10.9	10.9	10.8													

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: