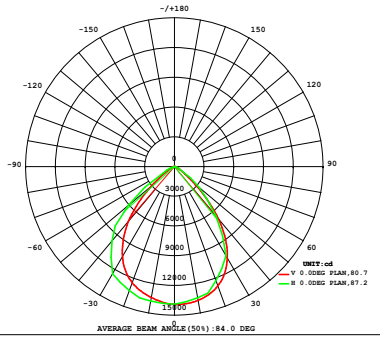
Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity		**581.7 cd per klm.**
(Luminaire orientation as tested.)		**0.0 degrees vertical -**
		2.0 degrees horizontal
Beam Spread	**At 10% of Imax**	**116.7V x 109.9H**
	At 50% of Imax	**87.2V x 80.7H**
	At 90% of Imax	**48.8V x 41.6H**
Beam Flux	**Total**	**999.3 lumens per klm.**
	To 10% of Imax	**957.9 lumens per klm.**
	To 50% of Imax	**746.8 lumens per klm.**
	To 90% of Imax	**262.8 lumens per klm.**
	Upward LOR	**0.0 %**
	Downward LOR	**99.9 %**
Luminaire Efficiency(Light Output Ratio)		**100.0 %**

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:219.84V I:1.5053A P:316.08W PF:0.9551 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:23919x1 lm		
NAME: CLF TYRA High CRI mode	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 20250808
MFR.: CLF Lighting B.V.	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:75.68lm/W	
MODEL	CLF TYRA	Imax(cd)	13913
NOMINAL POWER(W)	362	AVAILABILITY(%)	96.0
RATED VOLTAGE(V)		Avai. FLUX(lm)	22963
NOMINAL FLUX(lm)	23919	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	23919
TEST VOLTAGE(V)	220	@50%(H,V)	81,87DEG

AREA FLUX DIAGRAM UNIT:lm

VERTICAL(DEG)																			t	a
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
80	0.00	0.00	0.04	0.00	0.00	0.00	0.15	0.26	0.28	0.00	0.10	0.31	0.32	0.25	0.10	0.00	0.00	0.06	0.00	
70	1.87	0.00	0.00	0.21	1.07	3.32	7.06	13.0	22.1	33.0	27.2	39.1	36.6	24.8	14.5	7.77	3.74	1.33	0.29	
70	0.01	0.35	2.58	6.72	15.9	35.4	64.7	94.7	96.9	112	101	71.4	40.1	17.8	7.47	2.61	0.53	0.02	669	570
70	0.02	0.61	3.36	10.3	28.3	76.7	149	214	251	252	221	162	88.8	32.8	11.2	3.77	0.79	0.03	1506	1451
60	0.03	0.81	4.39	15.1	53.6	137	230	302	336	333	299	235	149	63.3	17.3	4.87	1.01	0.04	2180	2139
60	0.03	0.97	5.28	19.7	76.9	187	293	367	398	392	357	291	196	89.2	22.9	5.77	1.18	0.05	2704	2668
50	0.04	1.08	5.88	23.8	96.2	217	322	389	415	410	376	313	218	106	27.5	6.30	1.26	0.05	2927	2894
50	0.04	1.09	5.96	24.5	99.6	222	326	391	418	414	380	318	222	110	28.5	6.41	1.28	0.06	2968	2935
40	0.03	1.07	5.87	24.1	97.7	218	322	387	415	411	378	315	219	107	27.5	6.27	1.26	0.05	2936	2903
40	0.03	1.00	5.46	21.2	85.4	198	300	369	399	396	364	297	201	90.6	22.7	5.64	1.14	0.05	2757	2722
30	0.02	0.82	4.49	15.8	57.6	146	239	307	340	340	307	240	149	60.5	16.4	4.64	0.96	0.04	2229	2189
30	0.02	0.62	3.48	10.9	33.4	92.3	167	227	259	261	229	169	95.1	34.2	10.8	3.60	0.75	0.03	1598	1547
20	0.01	0.41	2.37	7.01	16.3	35.7	71.5	112	137	137	111	70.6	34.8	15.4	6.78	2.47	0.50	0.02	760	681
20	0.00	0.23	1.39	4.22	9.38	18.5	33.4	49.4	59.3	59.2	48.9	32.8	17.9	8.97	4.18	1.52	0.30	0.01	350	208
10	0.00	0.08	0.58	1.87	3.83	5.73	6.91	8.05	8.74	8.67	7.86	6.64	5.46	3.76	1.96	0.71	0.12	0.00	71.0	
10	0.00	0.00	0.01	0.12	0.46	1.02	1.80	2.66	3.39	3.80	3.79	3.35	2.64	1.83	1.10	0.54	0.19	0.02	0.00	
0	26.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	0.00	0.00	0.00	0.00	-50	-40	-30	-20	HORIZONTAL(DEG)											
t	0.28	9.44	51.9	189	682	1604	2550	3252	3564	3567	3220	2551	1654	748	209	56.1	11.4	0.45	23919	---
a	0.00	0.00	0.00	61.5	603	1541	2487	3208	3511	3526	3179	2492	1591	674	89.0	0.00	0.00	0.00	---	22963

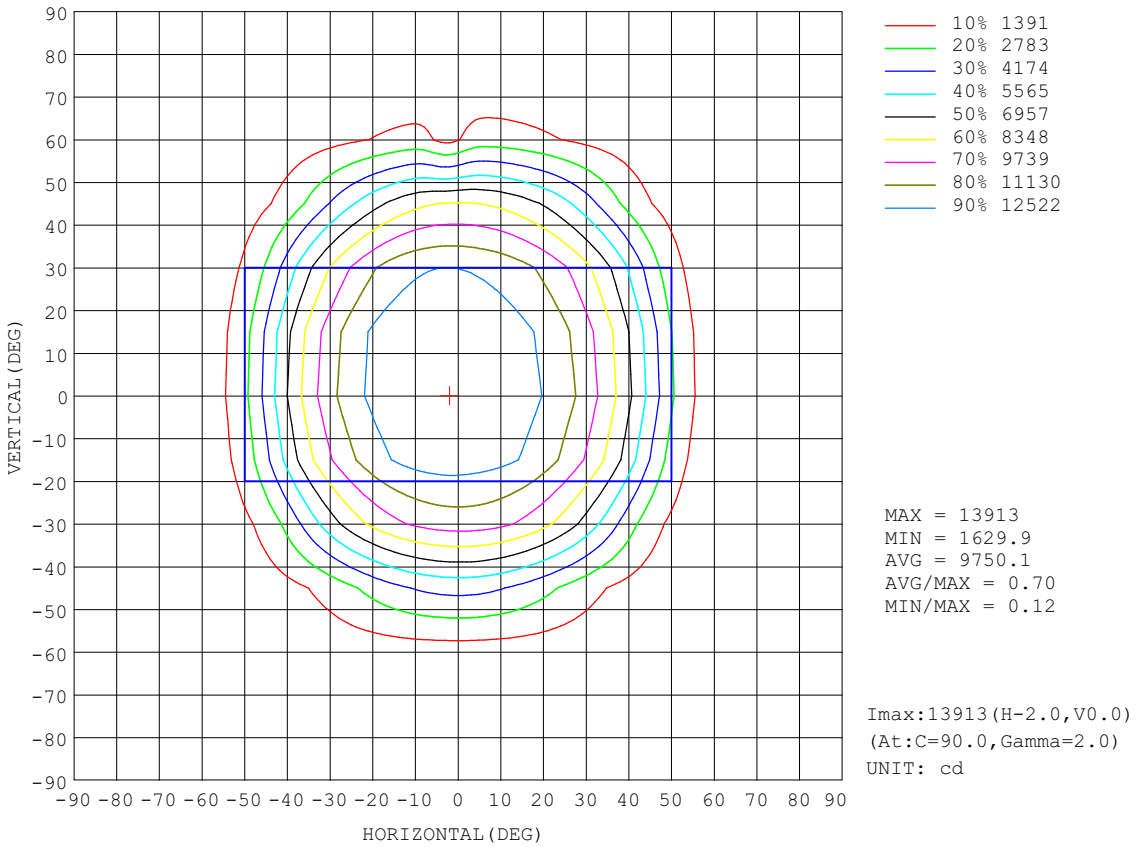
one-half-peak spread: U:39.1,D:48.4 , L:38.2,R:42.9 NEMA Beam Type: Type 6

H( ) Range:-90 - 90DEG
H( ) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-10-17

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.465
Humidity:65.0%
Test Distance:8.000m [K=1.0000] Remarks:

ISOCANDELA DIAGRAM

Test:U:219.84V I:1.5053A P:316.08W PF:0.9551 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:23919x1 lm		
NAME: CLF TYRA High CRI mode	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 20250808
MFR.: CLF Lighting B.V.	SUR.:	Shielding Angle:

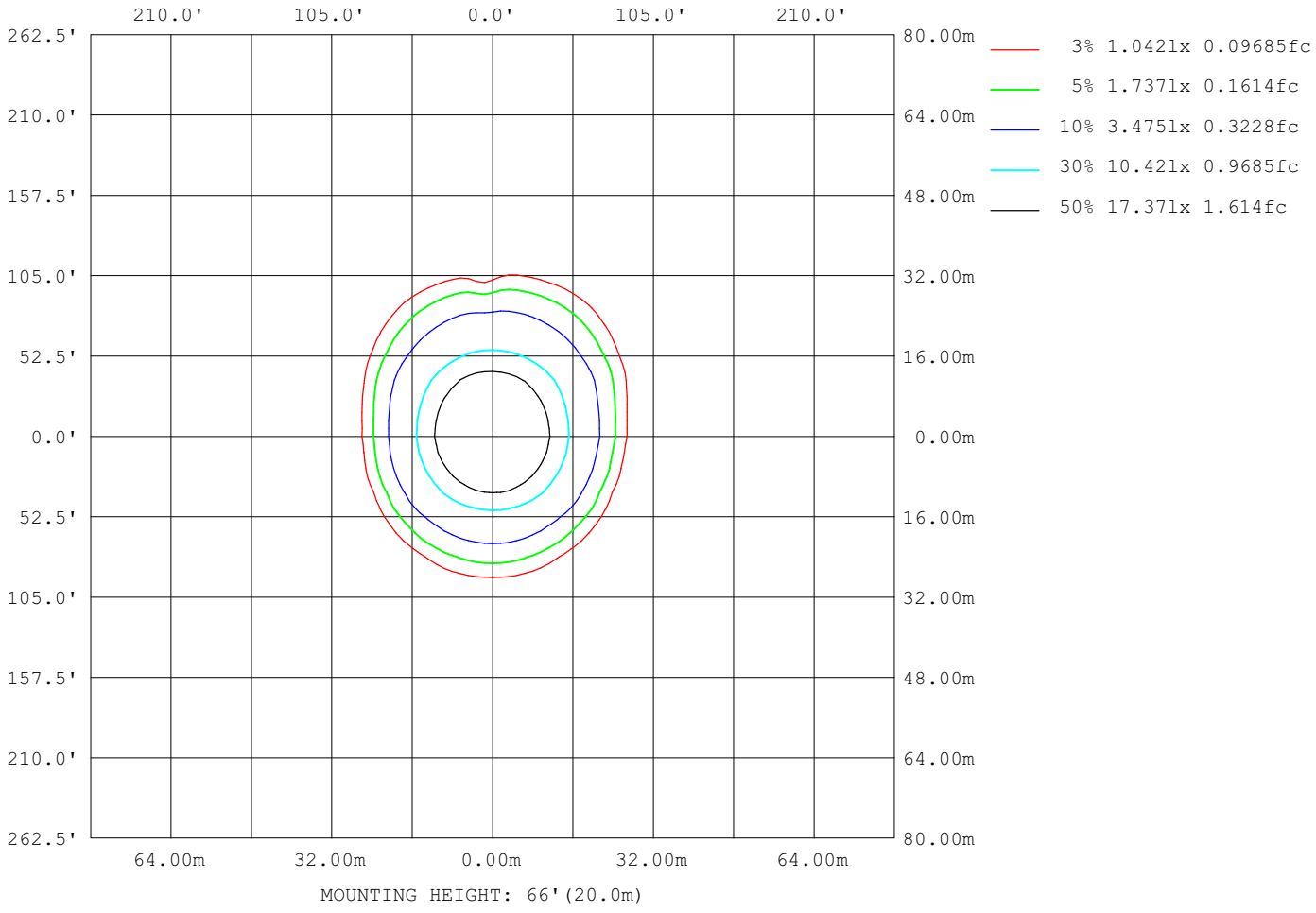


H( ) Range:-90 - 90DEG
H( ) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-10-17

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.465
Humidity:65.0%
Test Distance:8.000m [K=1.0000] Remarks:

ISOLUX DIAGRAM

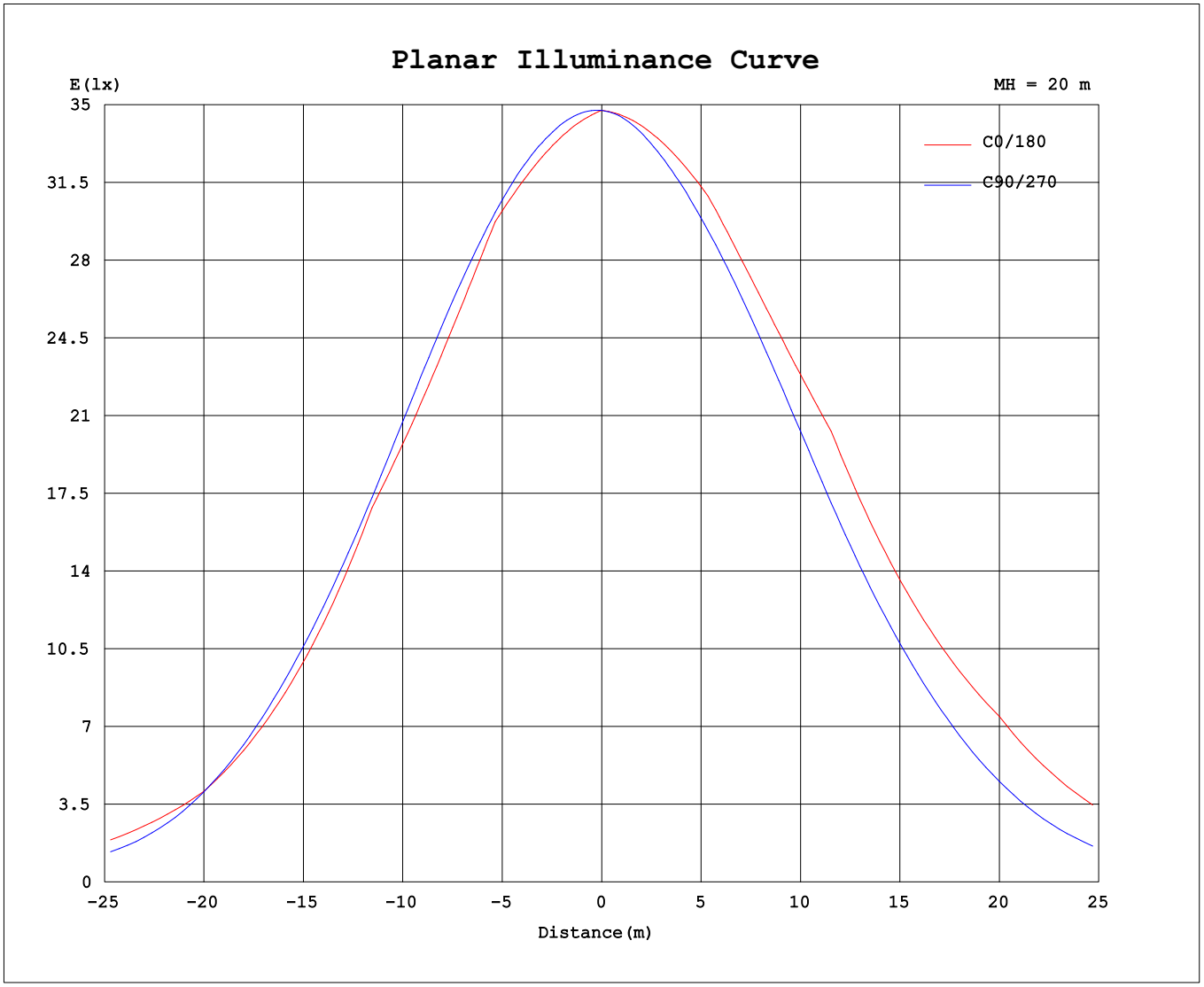
Test:U:219.84V I:1.5053A P:316.08W PF:0.9551 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:23919x1 lm		
NAME: CLF TYRA High CRI Mode	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 20250808
MFR.: CLF Lighting B.V.	SUR.:	Shielding Angle:



H( ) Range:-90 - 90DEG
H( ) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-10-17

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.465
Humidity:65.0%
Test Distance:8.000m [K=1.0000] Remarks:

Planar Illuminance Curve



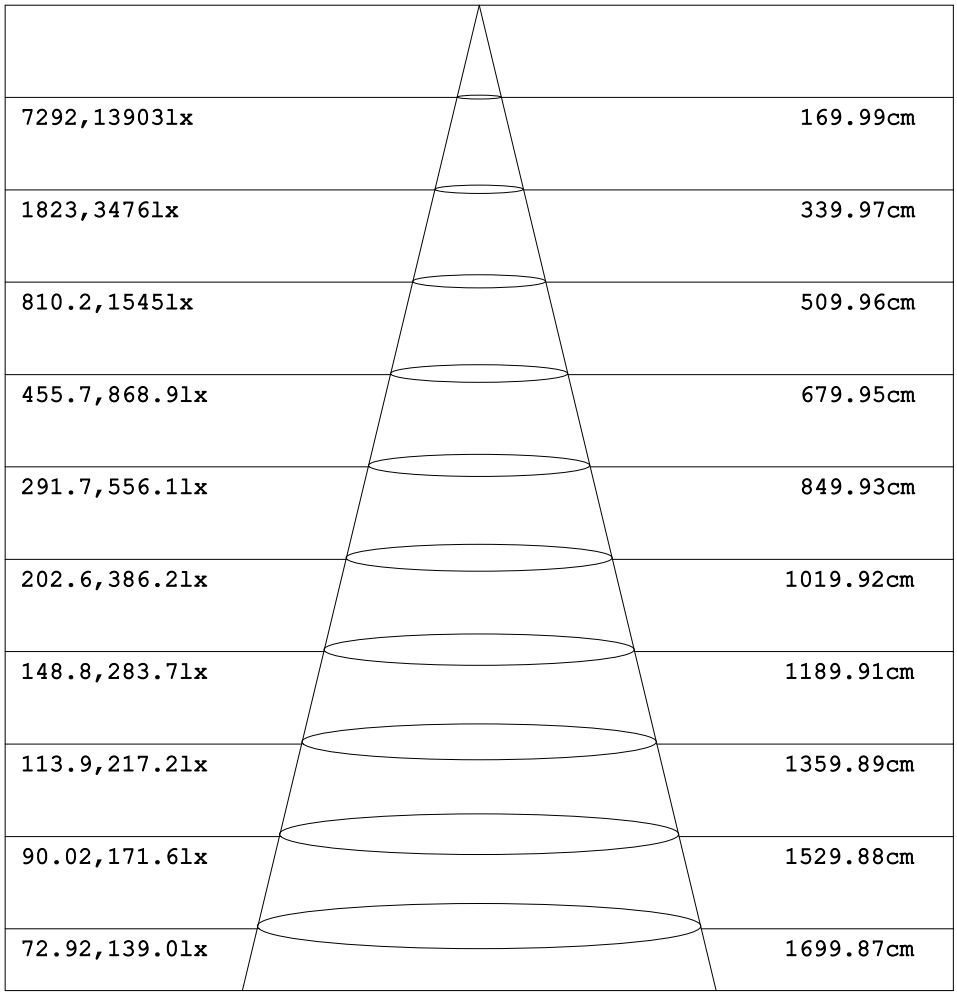
H( ) Range:-90 - 90DEG
H( ) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-10-17

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.465
Humidity:65.0%
Test Distance:8.000m [K=1.0000] Remarks:

AAI Figure

Test:U:219.84V I:1.5053A P:316.08W PF:0.9551 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:23919x1 lm		
NAME: CLF TYRA High CRI Mode	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 20250808
MFR.: CLF Lighting B.V.	SUR.:	Shielding Angle:

Flux out:16710 lm



Height	Eavg,Emax	Angle:80.72deg	Diameter
1m	7292,13903lx		169.99cm
2m	1823,3476lx		339.97cm
3m	810.2,1545lx		509.96cm
4m	455.7,868.9lx		679.95cm
5m	291.7,556.1lx		849.93cm
6m	202.6,386.2lx		1019.92cm
7m	148.8,283.7lx		1189.91cm
8m	113.9,217.2lx		1359.89cm
9m	90.02,171.6lx		1529.88cm
10m	72.92,139.0lx		1699.87cm

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

H( ) Range:-90 - 90DEG
H( ) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-10-17

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.465
Humidity:65.0%
Test Distance:8.000m [K=1.0000] Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.84V I:1.5053A P:316.08W PF:0.9551 Freq:49.99Hz
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:23919x1 lm

NAME: CLF TYRA High CRI Mode	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 20250808
MFR.: CLF Lighting B.V.	SUR.:	Shielding Angle:

Table--1 UNIT: X10cd

H(DEG) / V(DEG)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
-85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
-80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
-75	0.00	0.00	0.00	0.00	0.00	0.00	1.54	2.28	3.23	4.33	5.56	6.83	8.07	9.23	10.2	11.0	11.6	12.0	12.1
-70	0.00	0.00	0.00	0.50	1.18	2.22	4.63	6.80	9.30	12.0	14.9	17.8	20.7	23.5	26.0	28.1	29.7	30.7	31.0
-65	0.00	0.00	0.00	1.01	2.35	4.43	7.73	11.3	15.4	19.7	24.2	28.8	33.3	37.7	41.7	45.2	47.8	49.5	49.9
-60	0.00	0.00	0.00	1.51	3.53	6.65	10.8	15.9	21.4	27.4	33.5	39.7	45.9	51.9	57.5	62.3	65.9	68.2	68.9
-55	0.00	0.00	0.44	2.46	5.65	10.3	16.3	23.6	32.3	42.8	56.0	73.2	95.1		121	146	169	186	197	200
-50	0.00	0.00	0.88	3.40	7.78	14.0	21.8	31.4	43.2	58.3	78.5		107	144	190	235	275	306	325	332
-45	0.00	0.00	1.32	4.35	9.90	17.6	27.3	39.1	54.1	73.7		101	140	194	258	324	382	426	454	463
-40	0.00	0.00	1.67	5.53	12.3	21.6	33.7	49.9	74.1		113	174	253	339	426	504	568	615	645	655
-35	0.00	0.00	2.01	6.72	14.7	25.6	40.1	60.7	94.1		153	247	366	485	593	684	754	804	836	847
-30	0.00	0.00	2.35	7.90	17.1	29.6	46.5	71.5		114	193	320	479	631	761	863	940	993	1026	1039
-25	0.00	0.00	2.70	8.94	19.0	33.1	52.8	84.8		145	257	413	585	741	870	972	1046	1095	1124	1132
-20	0.00	0.00	3.06	9.99	21.0	36.5	59.1	98.0		177	321	506	691	851	980	1082	1153	1198	1221	1226
-15	0.00	0.00	3.41	11.0	23.0	39.9	65.4		111	208	385	599	797	960	1089	1191	1259	1300	1318	1320
-10	0.00	0.00	3.52	11.4	23.7	41.2	68.0		117	222	410	631	832	996	1124	1221	1285	1324	1342	1343
-5	0.00	0.00	3.63	11.7	24.4	42.4	70.5		123	236	435	664	867	1031	1160	1252	1312	1347	1365	1366
0	0.00	0.00	3.75	12.0	25.0	43.7	73.1		129	250	460	696	902	1067	1195	1282	1338	1371	1388	1390
5	0.00	0.00	3.75	12.0	24.9	43.4	72.4		128	246	453	686	892	1057	1188	1278	1334	1367	1382	1384
10	0.00	0.00	3.75	11.9	24.8	43.1	71.7		126	242	445	675	882	1048	1181	1274	1330	1362	1376	1377
15	0.00	0.00	3.75	11.9	24.7	42.8	71.1		124	238	437	664	871	1039	1173	1270	1326	1358	1370	1371
20	0.00	0.00	3.52	11.2	23.4	40.6	66.7		114	213	390	603	805	973	1109	1212	1277	1315	1330	1331
25	0.00	0.00	3.30	10.6	22.1	38.4	62.3		104	188	342	542	738	907	1046	1154	1228	1272	1290	1290
30	0.00	0.00	3.08	9.93	20.9	36.2	57.9	93.5		163	294	481	672	840	982	1096	1179	1229	1251	1250
35	0.00	0.00	2.74	8.83	18.7	32.4	51.4	81.2		136	238	387	549	702	835	946	1030	1084	1111	1115
40	0.00	0.00	2.40	7.73	16.5	28.7	45.0	68.9		110	182	292	426	563	688	796	881	940	972	980
45	0.00	0.00	2.05	6.63	14.4	24.9	38.5	56.6	83.0		125	197	303	425	540	645	732	796	833	844
50	0.00	0.00	1.70	5.44	11.9	20.6	32.2	47.1	67.9	99.8		152	228	315	400	478	544	592	597	606
55	0.00	0.00	1.35	4.25	9.39	16.2	25.9	37.6	52.8	74.2		107	152	206	259	311	356	388	360	368
60	0.00	0.00	1.00	3.05	6.89	11.8	19.6	28.0	37.6	48.6	61.6	77.1	96.1		119	144	169	185	123	130
65	0.00	0.00	0.67	2.04	4.94	7.88	13.1	18.7	25.1	32.4	41.0	51.8	64.5	79.6	96.3		113	123	82.0	87.0
70	0.00	0.00	0.33	1.02	2.98	3.94	6.53	9.34	12.5	16.2	20.5	26.4	32.8	40.4	48.8	57.0	62.2	41.0	43.5	
75	0.00	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00	0.00	0.00	1.05	1.18	1.25	1.31	1.25	1.01	0.00	0.00	
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

H( ) Range:-90 - 90DEG
H( ) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-10-17

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.465
Humidity:65.0%
Test Distance:8.000m [K=1.0000] Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.84V I:1.5053A P:316.08W PF:0.9551 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:23919x1 lm		
NAME: CLF TYRA High CRI Mode	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 20250808
MFR.: CLF Lighting B.V.	SUR.:	Shielding Angle:

Table--2 UNIT: X10cd

H(DEG) / V(DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-75	12.0	11.6	10.9	10.2	9.22	8.18	7.08	5.98	4.89	3.85	2.90	2.07	1.37	0.00	0.00	0.00	0.00	
-70	30.5	29.4	27.7	25.4	22.9	20.1	17.4	14.7	12.1	9.61	7.34	5.31	3.53	1.51	0.72	0.00	0.00	
-65	49.1	47.2	44.4	40.7	36.6	32.1	27.7	23.4	19.3	15.4	11.8	8.55	5.70	3.02	1.43	0.00	0.00	
-60	67.7	65.1	61.1	56.0	50.3	44.1	38.0	32.1	26.4	21.1	16.2	11.8	7.86	4.53	2.15	0.00	0.00	
-55	197	185	167	144	119	93.0	70.8	53.6	40.9	31.2	23.5	17.0	11.4	6.75	3.26	0.63	0.00	0.00
-50	326	305	273	232	187	142	104	75.1	55.3	41.3	30.7	22.1	14.9	8.97	4.38	1.25	0.00	0.00
-45	455	425	378	320	255	191	136	96.6	69.8	51.5	38.0	27.3	18.5	11.2	5.49	1.88	0.00	0.00
-40	647	617	569	504	427	342	256	176	113	72.8	49.1	33.9	22.6	13.8	6.89	2.39	0.00	0.00
-35	839	810	759	689	599	493	376	256	157	94.1	60.2	40.4	26.7	16.3	8.29	2.90	0.00	0.00
-30	1032	1002	949	873	771	644	496	336	200	115	71.3	47.0	30.8	18.9	9.69	3.41	0.00	0.00
-25	1123	1096	1047	974	874	749	600	431	271	153	86.8	53.7	34.3	20.9	10.8	3.83	0.00	0.00
-20	1215	1190	1145	1076	977	854	704	526	341	191	102	60.3	37.8	22.9	11.8	4.24	0.00	0.00
-15	1307	1284	1243	1177	1080	959	808	621	411	229	118	67.0	41.3	24.9	12.9	4.66	0.00	0.00
-10	1329	1303	1263	1200	1109	990	839	656	446	253	128	71.0	43.2	25.9	13.5	4.91	0.00	0.00
-5	1351	1323	1282	1224	1138	1020	871	690	480	276	139	75.1	45.1	26.9	14.0	5.17	0.00	0.00
0	1373	1342	1302	1247	1167	1051	903	724	514	300	149	79.1	47.1	27.9	14.6	5.42	0.00	0.00
5	1367	1336	1295	1239	1157	1041	894	715	505	294	147	78.3	46.6	27.7	14.5	5.37	0.00	0.00
10	1361	1330	1288	1231	1147	1030	885	705	496	287	144	77.4	46.2	27.5	14.4	5.31	0.00	0.00
15	1354	1324	1282	1223	1137	1020	876	696	487	281	142	76.5	45.7	27.2	14.3	5.26	0.00	0.00
20	1314	1283	1238	1176	1087	969	824	645	443	253	130	72.1	43.8	26.2	13.7	5.05	0.00	0.00
25	1273	1243	1195	1128	1037	918	772	594	399	226	118	67.7	41.8	25.2	13.2	4.85	0.00	0.00
30	1233	1202	1152	1081	987	867	720	543	355	198	106	63.4	39.8	24.1	12.6	4.64	0.00	0.00
35	1100	1069	1019	948	855	737	598	439	285	163	91.3	56.2	35.9	21.9	11.4	4.15	0.00	0.00
40	967	937	886	816	723	608	475	336	215	127	76.3	49.1	32.0	19.6	10.1	3.67	0.00	0.00
45	834	804	753	684	590	478	353	233	145	91.7	61.3	42.0	28.1	17.3	8.87	3.18	0.00	0.00
50	625	605	564	510	438	354	264	178	114	74.9	51.4	35.7	23.8	14.1	7.50	2.69	0.00	0.00
55	416	405	375	336	286	231	175	123	83.6	58.2	41.5	29.4	19.4	11.0	6.12	2.21	0.00	0.00
60	207	206	187	161	134	108	85.5	67.5	53.1	41.4	31.6	23.2	15.0	7.81	4.75	1.72	0.00	0.00
65	138	138	125	108	89.7	72.2	57.4	45.4	35.8	27.6	21.1	15.4	10.0	5.21	3.68	1.15	0.00	0.00
70	69.0	69.4	63.1	54.9	45.6	36.8	29.4	23.3	18.4	13.8	10.5	7.72	5.01	2.60	2.61	0.57	0.00	0.00
75	0.00	1.17	1.44	1.61	1.58	1.47	1.33	1.18	1.01	0.00	0.00	0.00	0.00	0.00	1.54	0.00	0.00	0.00
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

H( ) Range:-90 - 90DEG
H( ) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-10-17

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.465
Humidity:65.0%
Test Distance:8.000m [K=1.0000] Remarks: