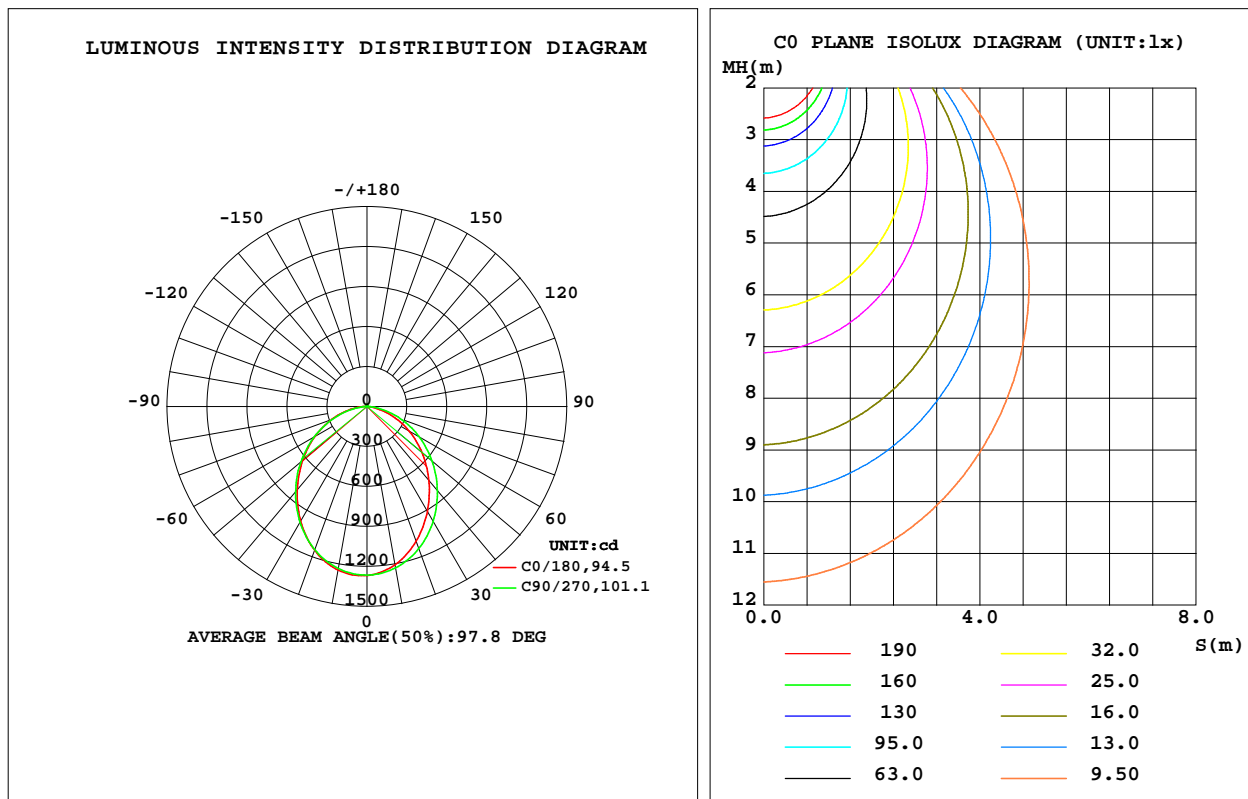


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.9V I:0.1361A P:29.50W PF:0.9814 Freq:49.99Hz Lamp Flux:3098.73x1 lm		
NAME: LLS-BS5470FD1200	TYPE:	WEIGHT:
SPEC.:LLS-BS5470FD1200	DIM.: 1200*54*70mm	SERIAL No.:
MFR.: COLORS	SUR.:1200*54mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 105.04 lm/W			
MODEL	LLS-BS5470FD1200	I _{max} (cd)	1270	S/MH(C0/180)	1.09
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	1.19
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	3098.7	h UP,DN(C0-180)	0.7,48.0
NOMINAL FLUX(lm)	3098.73	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.6,50.7
LAMPS INSIDE	1	h up(%)	1.3	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220	h down(%)	98.7	CIBSE SHR MAX	1.30



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-11-01

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

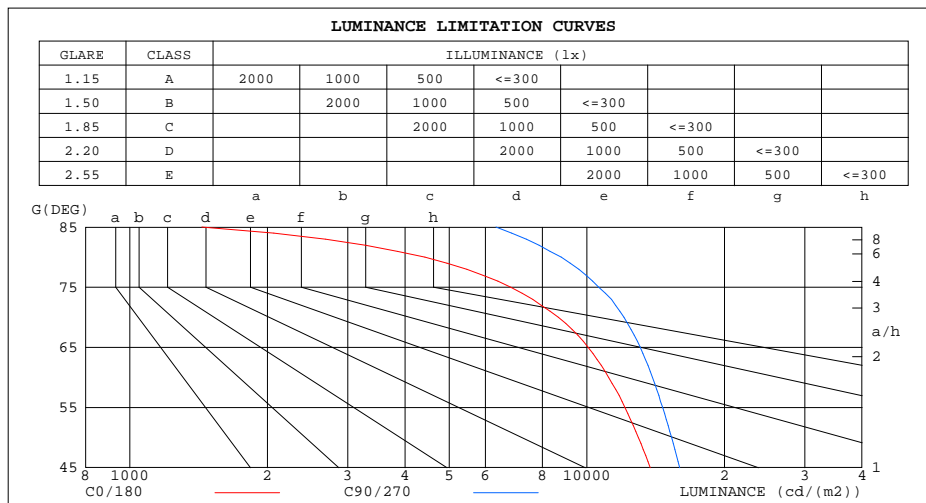
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	1206	1217	1230	1232	1246	1237	1235	1227	0- 10	119.1	119.1	3.84,3.84
20	1078	1104	1136	1134	1148	1139	1144	1125	10- 20	333.6	452.6	14.6,14.6
30	907.4	944.9	994.1	986.9	995.0	988.7	1005	974.9	20- 30	485.4	938.0	30.3,30.3
40	723.4	764.4	822.7	812.7	815.1	812.0	833.5	798.5	30- 40	555.2	1493	48.2,48.2
50	540.0	579.9	638.3	628.7	630.6	626.4	647.4	612.0	40- 50	544.4	2038	65.8,65.8
60	361.9	397.1	450.9	445.7	451.7	444.8	458.1	426.3	50- 60	465.8	2503	80.8,80.8
70	192.0	224.2	267.3	264.5	278.6	269.3	269.5	245.8	60- 70	335.7	2839	91.6,91.6
80	49.77	73.16	98.91	102.7	122.0	107.9	101.0	84.45	70- 80	178.3	3017	97.4,97.4
90	2.606	4.081	3.650	3.765	10.61	4.531	1.166	1.224	80- 90	41.90	3059	98.7,98.7
100	3.133	4.255	2.946	2.559	1.785	2.070	1.412	1.974	90-100	2.618	3062	98.8,98.8
110	4.759	5.601	4.103	3.481	3.077	3.142	2.789	3.500	100-110	3.257	3065	98.9,98.9
120	6.773	7.370	6.353	4.873	4.509	4.366	4.843	5.452	110-120	4.631	3070	99.1,99.1
130	8.812	9.024	8.272	6.334	6.060	5.884	7.087	7.216	120-130	5.775	3076	99.3,99.3
140	10.73	10.11	9.865	7.883	7.788	7.637	9.089	8.716	130-140	6.319	3082	99.5,99.5
150	12.46	10.92	11.54	9.655	9.466	9.577	10.80	9.932	140-150	6.098	3088	99.7,99.7
160	14.41	12.05	14.03	12.09	11.13	11.97	13.23	11.83	150-160	5.293	3093	99.8,99.8
170	16.64	15.07	16.23	14.80	13.35	15.05	15.64	14.79	160-170	3.897	3097	100,100
180	15.67	17.82	17.75	17.40	15.57	18.05	17.73	17.29	170-180	1.518	3099	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2021-11-01

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.950m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.9V I:0.1361A P:29.50W PF:0.9814 Freq:49.99Hz Lamp Flux:3098.73x1 lm		
NAME: LLS-BS5470FD1200	TYPE:	WEIGHT:
SPEC.:LLS-BS5470FD1200	DIM.: 1200*54*70mm	SERIAL No.:
MFR.: COLORS	SUR.:1200*54mm	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1438	6326
80	4423	8790
75	6818	10620
70	8663	12060
65	10072	13085
60	11171	13917
55	12117	14649
50	12965	15324
45	13771	15961

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2021-11-01

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.950m [K=1.0000]
 Remarks:

```

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

```

WEC AND CCEC

Test:U:220.9V I:0.1361A P:29.50W PF:0.9814 Freq:49.99Hz Lamp Flux:3098.73x1 lm		
NAME: LLS-BS5470FD1200	TYPE:	WEIGHT:
SPEC.:LLS-BS5470FD1200	DIM.: 1200*54*70mm	SERIAL No.:
MFR.: COLORS	SUR.:1200*54mm	Shielding Angle:

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Wall Exitance Coefficients(WEC)												
0.0																
1.0	.292	.166	.053	.284	.162	.051	.270	.155	.050	.258	.149	.048	.246	.142	.046	
2.0	.277	.152	.047	.270	.149	.046	.258	.143	.045	.247	.138	.043	.236	.134	.042	
3.0	.258	.137	.041	.252	.135	.041	.241	.131	.040	.231	.127	.039	.222	.123	.038	
4.0	.239	.124	.037	.234	.122	.036	.224	.119	.036	.215	.116	.035	.207	.113	.034	
5.0	.222	.113	.033	.217	.112	.032	.209	.109	.032	.201	.106	.032	.193	.103	.031	
6.0	.206	.103	.030	.202	.102	.029	.195	.100	.029	.188	.097	.029	.181	.095	.028	
7.0	.193	.095	.027	.189	.094	.027	.182	.092	.027	.176	.090	.026	.170	.088	.026	
8.0	.180	.088	.025	.177	.087	.025	.171	.085	.024	.165	.084	.024	.160	.082	.024	
9.0	.169	.082	.023	.166	.081	.023	.161	.080	.023	.156	.078	.022	.151	.077	.022	
10.0	.160	.076	.021	.157	.076	.021	.152	.074	.021	.147	.073	.021	.143	.072	.021	

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.200	.200	.200	.171	.171	.171	.117	.117	.117	.067	.067	.067	.021	.021	.021	
1.0	.189	.166	.146	.162	.143	.125	.111	.098	.087	.064	.057	.050	.020	.018	.016	
2.0	.180	.142	.110	.154	.122	.095	.106	.084	.066	.061	.049	.039	.020	.016	.013	
3.0	.172	.124	.086	.147	.107	.074	.101	.074	.052	.058	.043	.031	.019	.014	.010	
4.0	.164	.111	.070	.141	.096	.061	.097	.067	.043	.056	.039	.025	.018	.013	.008	
5.0	.157	.100	.058	.135	.087	.051	.093	.061	.036	.054	.036	.021	.017	.012	.007	
6.0	.150	.092	.050	.129	.079	.044	.089	.056	.031	.052	.033	.018	.017	.011	.006	
7.0	.143	.085	.044	.123	.074	.038	.085	.052	.027	.049	.030	.016	.016	.010	.005	
8.0	.137	.079	.039	.118	.069	.034	.081	.048	.024	.047	.028	.015	.015	.009	.005	
9.0	.131	.074	.036	.113	.064	.031	.078	.045	.022	.045	.027	.013	.015	.009	.004	
10.0	.125	.070	.033	.108	.061	.029	.075	.043	.020	.044	.025	.012	.014	.008	.004	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-11-01

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.9V I:0.1361A P:29.50W PF:0.9814 Freq:49.99Hz Lamp Flux:3098.73x1 lm											
NAME: LLS-BS5470FD1200					TYPE:			WEIGHT:			
SPEC.:LLS-BS5470FD1200					DIM.: 1200*54*70mm			SERIAL No.:			
MFR.: COLORS					SUR.:1200*54mm			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	17.1	18.5	17.4	18.7	19.0	17.9	19.3	18.1	19.5	19.8	
	3H	18.2	19.5	18.5	19.8	20.0	19.2	20.6	19.5	20.8	21.1
	4H	18.5	19.8	18.8	20.0	20.3	19.7	21.0	20.1	21.3	21.6
	6H	18.6	19.8	19.0	20.1	20.4	20.1	21.2	20.4	21.5	21.8
	8H	18.6	19.8	19.0	20.1	20.4	20.1	21.3	20.5	21.6	21.9
	12H	18.6	19.7	18.9	20.0	20.3	20.2	21.3	20.5	21.6	21.9
4H	2H	17.7	18.9	18.0	19.2	19.5	18.3	19.5	18.6	19.8	20.1
	3H	18.9	20.0	19.3	20.3	20.7	19.8	20.9	20.2	21.2	21.6
	4H	19.3	20.4	19.7	20.7	21.0	20.4	21.4	20.8	21.8	22.1
	6H	19.5	20.4	20.0	20.8	21.2	20.8	21.7	21.3	22.1	22.5
	8H	19.6	20.4	20.0	20.8	21.2	21.0	21.8	21.4	22.2	22.6
	12H	19.5	20.3	20.0	20.7	21.1	21.0	21.8	21.5	22.2	22.6
8H	4H	19.6	20.4	20.0	20.8	21.2	20.5	21.4	21.0	21.8	22.2
	6H	19.8	20.5	20.3	21.0	21.4	21.1	21.8	21.5	22.2	22.6
	8H	19.9	20.5	20.4	21.0	21.4	21.2	21.8	21.7	22.3	22.8
	12H	19.9	20.4	20.4	20.9	21.4	21.3	21.9	21.8	22.3	22.8
12H	4H	19.6	20.3	20.0	20.7	21.2	20.5	21.3	21.0	21.7	22.1
	6H	19.9	20.5	20.4	20.9	21.4	21.1	21.7	21.5	22.1	22.6
	8H	19.9	20.5	20.4	20.9	21.4	21.3	21.8	21.7	22.2	22.7
Variations with the observer position at spacings:											
S = 1.0H	+ 0.3 / - 0.3					+ 0.2 / - 0.2					
1.5H	+ 0.2 / - 0.4					+ 0.1 / - 0.2					
2.0H	+ 0.3 / - 0.5					+ 0.4 / - 0.4					

CIE Pub.117, 3099 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.9)

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-11-01

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.9V I:0.1361A P:29.50W PF:0.9814 Freq:49.99Hz Lamp Flux:3098.73x1 lm		
NAME: LLS-BS5470FD1200	TYPE:	WEIGHT:
SPEC.:LLS-BS5470FD1200	DIM.: 1200*54*70mm	SERIAL No.:
MFR.: COLORS	SUR.:1200*54mm	Shielding Angle:

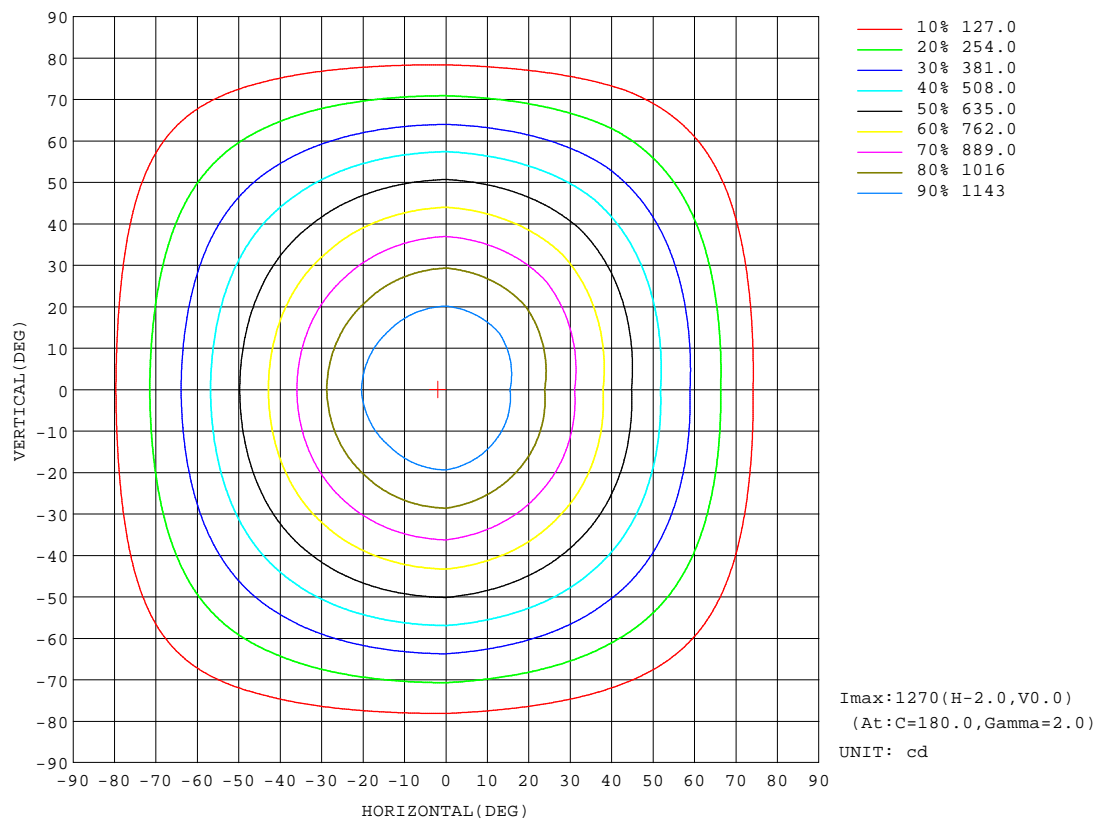
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	60	48	42	59	48	42	58	48	41	35
0.80	70	58	51	68	58	51	67	57	51	44
1.00	78	67	60	77	67	60	74	68	59	52
1.25	85	75	68	83	74	67	80	72	67	59
1.50	90	80	74	88	79	73	85	77	72	64
2.00	96	88	82	94	87	81	91	84	79	72
2.50	100	92	87	98	91	86	94	88	84	75
3.00	103	96	91	101	95	90	97	92	88	79
4.00	107	101	97	104	100	96	100	96	93	84
5.00	109	104	101	107	102	99	102	99	96	86
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2021-11-01

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.950m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:220.9V I:0.1361A P:29.50W PF:0.9814 Freq:49.99Hz Lamp Flux:3098.73x1 lm		
NAME: LLS-BS5470FD1200	TYPE:	WEIGHT:
SPEC.:LLS-BS5470FD1200	DIM.: 1200*54*70mm	SERIAL No.:
MFR.: COLORS	SUR.:1200*54mm	Shielding Angle:



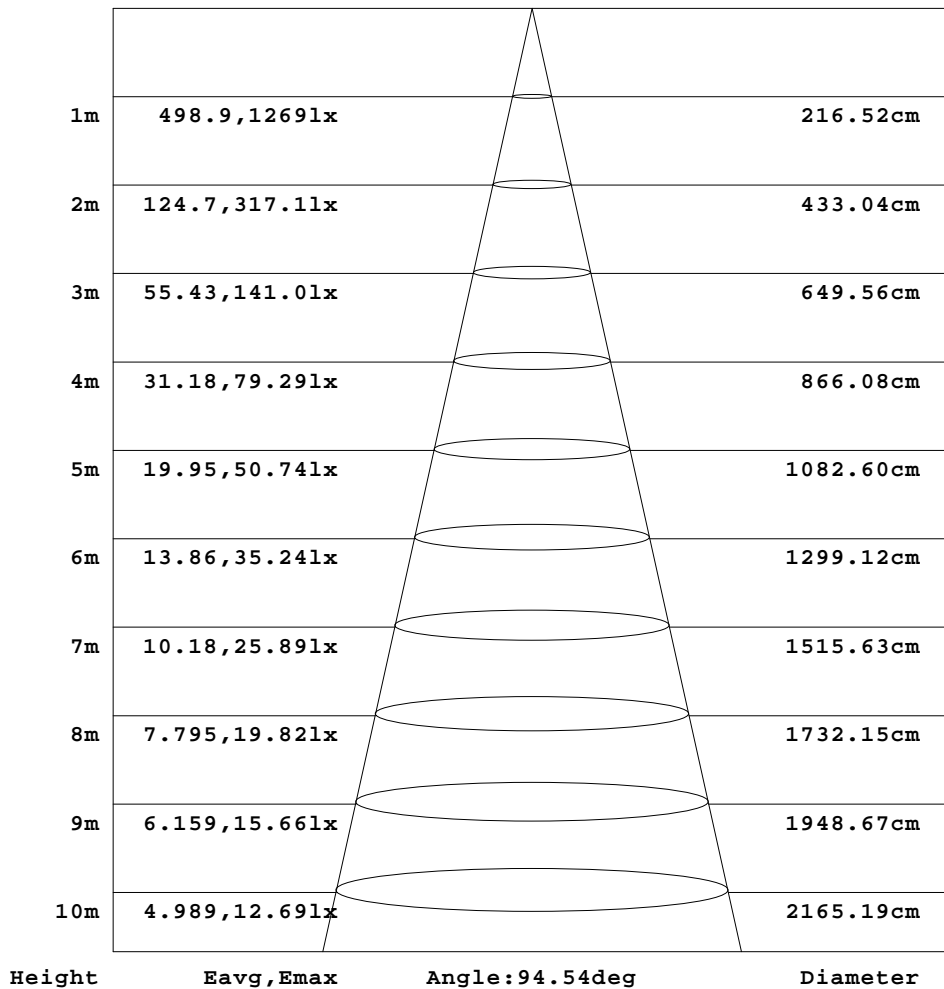
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-11-01

deg Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.9V I:0.1361A P:29.50W PF:0.9814 Freq:49.99Hz Lamp Flux:3098.73x1 lm		
NAME: LLS-BS5470FD1200	TYPE:	WEIGHT:
SPEC.:LLS-BS5470FD1200	DIM.: 1200*54*70mm	SERIAL No.:
MFR.: COLORS	SUR.:1200*54mm	Shielding Angle:

Flux out:1933 lm



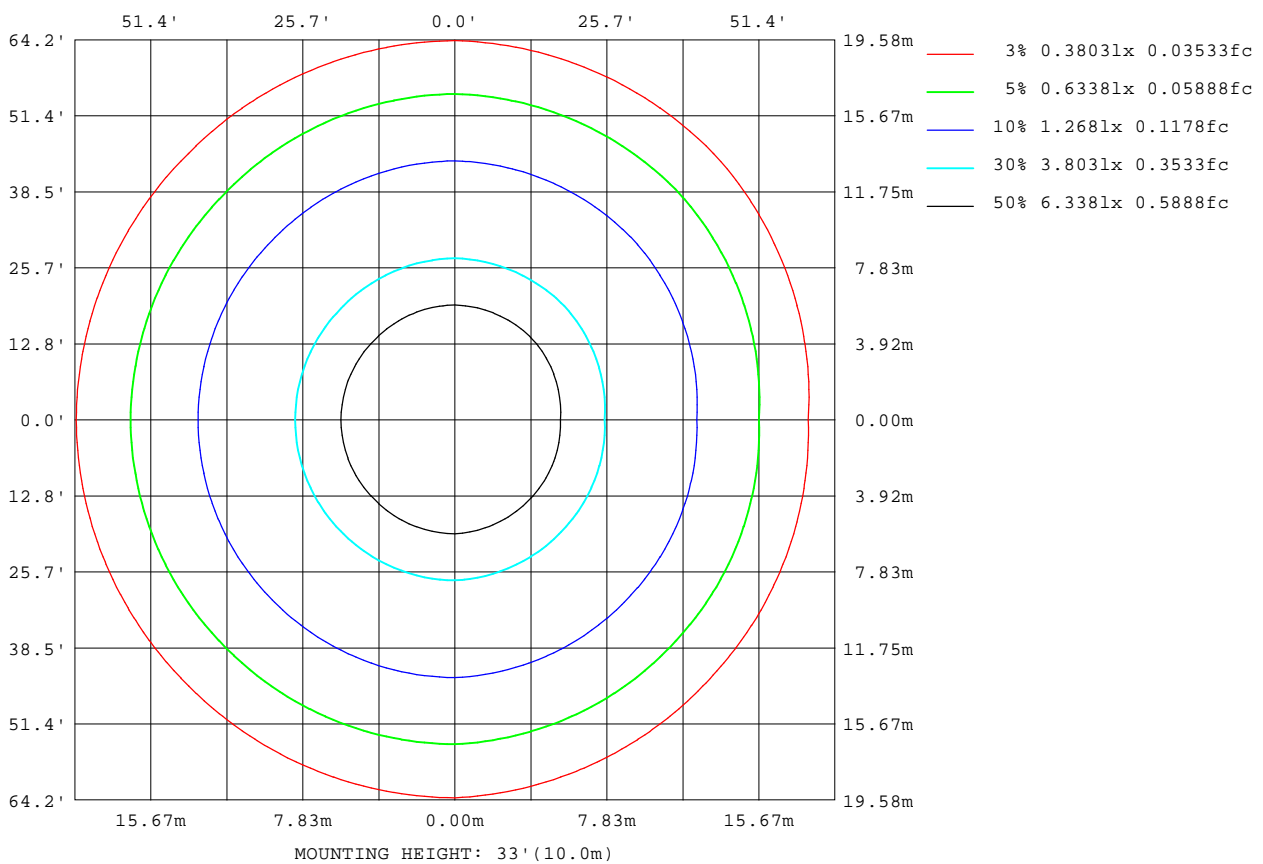
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JYH
Test Date: 2021-11-01

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 10.950m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:220.9V I:0.1361A P:29.50W PF:0.9814 Freq:49.99Hz Lamp Flux:3098.73x1 lm		
NAME: LLS-BS5470FD1200	TYPE:	WEIGHT:
SPEC.:LLS-BS5470FD1200	DIM.: 1200*54*70mm	SERIAL No.:
MFR.: COLORS	SUR.:1200*54mm	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2021-11-01

g Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.950m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:220.9V I:0.1361A P:29.50W PF:0.9814 Freq:49.99Hz Lamp Flux:3098.73x1 lm		
NAME: LLS-BS5470FD1200	TYPE:	WEIGHT:
SPEC.:LLS-BS5470FD1200	DIM.: 1200*54*70mm	SERIAL No.:
MFR.: COLORS	SUR.:1200*54mm	Shielding Angle:

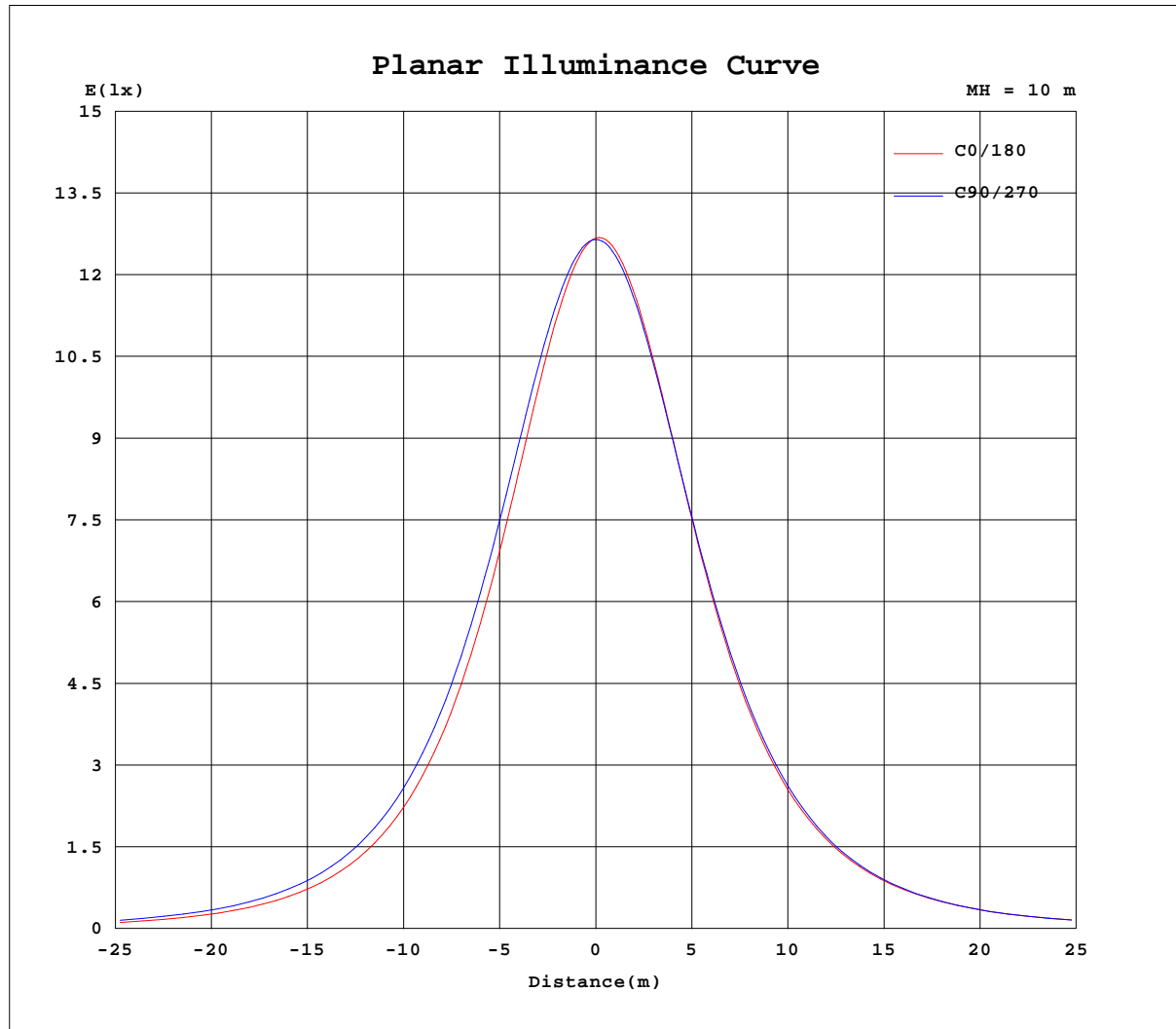
AvgL	cd/m2
L_0~180(65)av	11650
L_0~180(75)av	9308
L_0~180(85)av	5669
L_90~270(65)av	13139
L_90~270(75)av	10718
L_90~270(85)av	6448
L_45(65)av	12344
L_45(75)av	9981
L_45(85)av	5802

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-11-01

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JYH
Test Date: 2021-11-01

Range: 0 - 180DEG
Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 10.950m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.9V I:0.1361A P:29.50W PF:0.9814 Freq:49.99Hz Lamp Flux:3098.73x1 lm		
NAME: LLS-BS5470FD1200	TYPE:	WEIGHT:
SPEC.:LLS-BS5470FD1200	DIM.: 1200*54*70mm	SERIAL No.:
MFR.: COLORS	SUR.:1200*54mm	Shielding Angle:

Table--1

UNIT: cd

C(DEG) g (DEG)	0	45	90	135	180	225	270	315										
0	1268	1265	1265	1265	1268	1265	1265	1265										
5	1247	1251	1256	1257	1267	1260	1258	1255										
10	1206	1217	1230	1232	1246	1237	1235	1227										
15	1149	1168	1190	1190	1206	1195	1196	1183										
20	1078	1104	1136	1134	1148	1139	1144	1125										
25	996	1028	1070	1065	1077	1068	1080	1055										
30	907	945	994	987	995	989	1005	975										
35	816	856	911	902	907	902	922	889										
40	723	764	823	813	815	812	834	799										
45	631	672	731	721	722	720	743	706										
50	540	580	638	629	631	626	647	612										
55	450	489	544	536	540	535	553	519										
60	362	397	451	446	452	445	458	426										
65	276	309	358	352	362	356	361	335										
70	192	224	267	264	279	269	270	246										
75	114	144	178	180	198	186	181	160										
80	49.8	73.2	98.9	103	122	108	101	84.5										
85	8.12	21.0	35.7	39.4	55.9	44.1	37.1	26.6										
90	2.61	4.08	3.65	3.76	10.6	4.53	1.17	1.22										
95	2.66	3.99	2.99	2.44	1.36	1.68	0.93	1.32										
100	3.13	4.26	2.95	2.56	1.78	2.07	1.41	1.97										
105	3.84	4.78	3.24	2.88	2.41	2.55	1.99	2.67										
110	4.76	5.60	4.10	3.48	3.08	3.14	2.79	3.50										
115	5.74	6.48	5.23	4.19	3.78	3.73	3.77	4.46										
120	6.77	7.37	6.35	4.87	4.51	4.37	4.84	5.45										
125	7.80	8.25	7.33	5.59	5.27	5.09	5.94	6.41										
130	8.81	9.02	8.27	6.33	6.06	5.88	7.09	7.22										
135	9.80	9.61	9.09	7.10	6.99	6.75	8.12	8.03										
140	10.7	10.1	9.87	7.88	7.79	7.64	9.09	8.72										
145	11.6	10.6	10.6	8.68	8.76	8.57	9.87	9.33										
150	12.5	10.9	11.5	9.65	9.47	9.58	10.8	9.93										
155	13.4	11.4	12.7	10.8	10.2	10.7	11.9	10.6										
160	14.4	12.0	14.0	12.1	11.1	12.0	13.2	11.8										
165	15.5	13.3	15.2	13.6	12.2	13.4	14.4	13.4										
170	16.6	15.1	16.2	14.8	13.4	15.0	15.6	14.8										
175	16.1	16.8	17.1	16.0	14.3	16.4	16.8	16.2										
180	15.7	17.8	17.7	17.4	15.6	18.0	17.7	17.3										

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-11-01

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks: