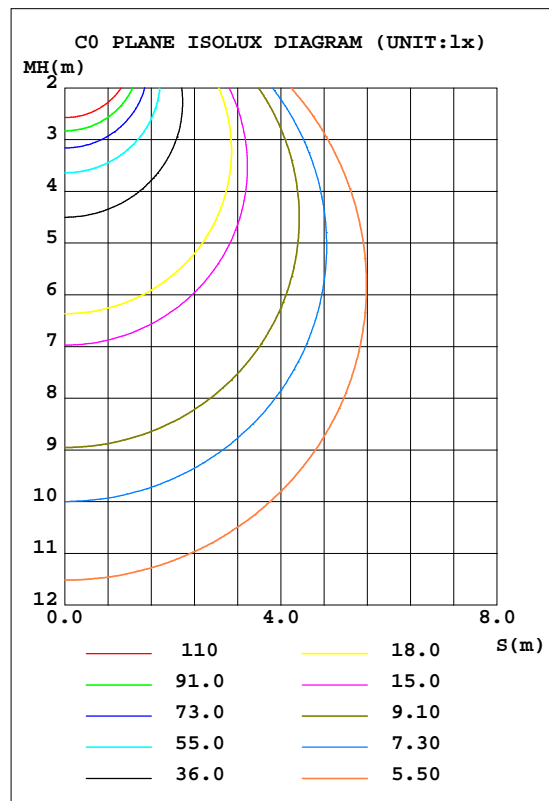
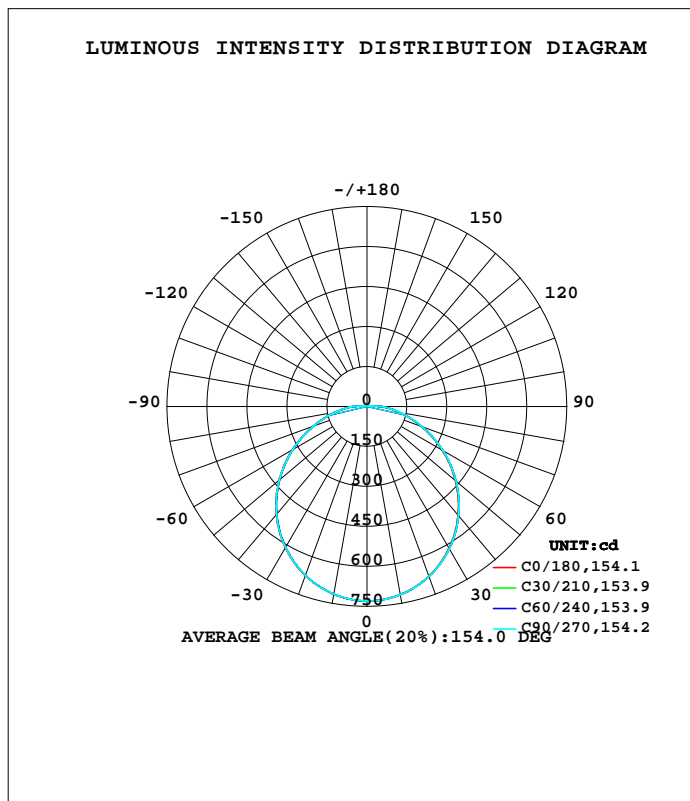


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.00V I:0.2533A P:29.021W PF:0.9547 Freq:59.98Hz Lamp Flux:2223.1x1 lm		
NAME: DLS12-MCT	TYPE:	WEIGHT:
SPEC.:30W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	DLS12-MCT	Imax(cd)	730.0	S/MH(C0/180)	1.25
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	2223.1	h UP, DN(C0-180)	1.3,49.1
NOMINAL FLUX(lm)	2223.1	CIE CLASS	DIRECT	h UP, DN(C180-360)	1.2,48.4
LAMPS INSIDE	1	h up(%)	2.5	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	h down(%)	97.5	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2020-05-28

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:3.010m [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	716.7	717.8	717.5	716.4	715.8	714.2	714.8	715.0	0- 10	69.00	69.00	3.1,3.1
20	677.7	679.6	679.1	677.9	676.0	673.5	675.0	675.3	10- 20	197.4	266.4	12,12
30	614.8	617.9	617.1	615.3	612.7	609.0	611.2	612.0	20- 30	298.7	565.1	25.4,25.4
40	531.9	536.0	535.1	532.9	530.0	525.4	528.2	528.9	30- 40	359.6	924.7	41.6,41.6
50	433.1	437.8	437.1	434.7	431.3	426.4	429.3	429.9	40- 50	372.9	1298	58.4,58.4
60	324.9	329.4	328.9	326.0	323.1	317.8	321.3	320.8	50- 60	338.9	1636	73.6,73.6
70	215.4	219.1	218.7	216.4	214.3	208.7	211.9	210.3	60- 70	265.9	1902	85.6,85.6
80	120.3	123.2	123.3	121.7	121.0	114.5	118.5	115.3	70- 80	174.4	2077	93.4,93.4
90	51.24	54.54	53.84	54.35	51.80	49.93	50.16	49.85	80- 90	90.16	2167	97.5,97.5
100	10.98	20.31	11.53	20.53	11.41	19.07	10.74	18.39	90-100	31.89	2199	98.9,98.9
110	3.851	5.899	4.081	5.951	4.054	6.081	4.255	5.410	100-110	9.588	2208	99.3,99.3
120	3.189	3.918	3.432	4.095	2.711	3.988	3.459	3.712	110-120	3.986	2212	99.5,99.5
130	3.098	3.975	3.708	3.448	2.708	2.751	2.465	3.548	120-130	2.961	2215	99.7,99.7
140	4.045	4.348	3.862	3.311	2.958	2.257	2.676	3.351	130-140	2.600	2218	99.8,99.8
150	3.673	4.959	3.862	4.006	3.150	2.602	2.702	3.339	140-150	2.204	2220	99.9,99.9
160	3.765	3.850	3.661	3.705	2.703	2.471	3.284	3.333	150-160	1.590	2222	99.9,99.9
170	3.907	3.405	3.638	3.628	3.190	3.136	3.503	3.691	160-170	0.9531	2223	100,100
180	4.446	4.084	4.183	4.205	4.450	4.087	4.182	4.205	170-180	0.3557	2223	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm			

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2020-05-28

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:3.010m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.00V I:0.2533A P:29.021W PF:0.9547 Freq:59.98Hz Lamp Flux:2223.1x1 lm										
NAME: DLS12-MCT					TYPE:			WEIGHT:		
SPEC.:30W					DIM.:			SERIAL No.:		
MFR.: LiBo					SUR.:			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	13.7	15.2	14.0	15.4	15.7	13.7	15.2	14.0	15.5	15.7
3H	15.3	16.7	15.7	17.0	17.3	15.4	16.8	15.7	17.1	17.4
4H	16.1	17.4	16.4	17.7	18.0	16.2	17.5	16.5	17.8	18.1
6H	16.8	18.0	17.2	18.4	18.7	16.9	18.1	17.2	18.4	18.8
8H	17.1	18.3	17.5	18.7	19.0	17.2	18.4	17.6	18.8	19.1
12H	17.5	18.6	17.9	19.0	19.3	17.6	18.7	18.0	19.1	19.4
4H 2H	14.3	15.6	14.7	15.9	16.3	14.3	15.7	14.7	16.0	16.3
3H	16.2	17.3	16.6	17.7	18.0	16.2	17.4	16.6	17.7	18.1
4H	17.1	18.2	17.5	18.5	18.9	17.1	18.2	17.6	18.6	19.0
6H	17.9	18.9	18.4	19.3	19.7	18.0	19.0	18.5	19.4	19.8
8H	18.4	19.3	18.8	19.7	20.1	18.5	19.4	18.9	19.8	20.2
12H	18.8	19.6	19.3	20.1	20.5	18.9	19.7	19.4	20.2	20.6
8H 4H	17.4	18.3	17.9	18.8	19.2	17.5	18.4	17.9	18.8	19.2
6H	18.5	19.3	19.0	19.7	20.2	18.6	19.3	19.1	19.8	20.3
8H	19.1	19.8	19.6	20.2	20.7	19.2	19.9	19.7	20.3	20.8
12H	19.7	20.3	20.2	20.8	21.3	19.8	20.4	20.3	20.9	21.4
12H 4H	17.5	18.3	18.0	18.7	19.2	17.5	18.4	18.0	18.8	19.3
6H	18.7	19.3	19.2	19.8	20.3	18.7	19.4	19.2	19.9	20.4
8H	19.3	19.9	19.8	20.4	20.9	19.4	20.0	19.9	20.5	21.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.3					+ 0.1 / - 0.3				

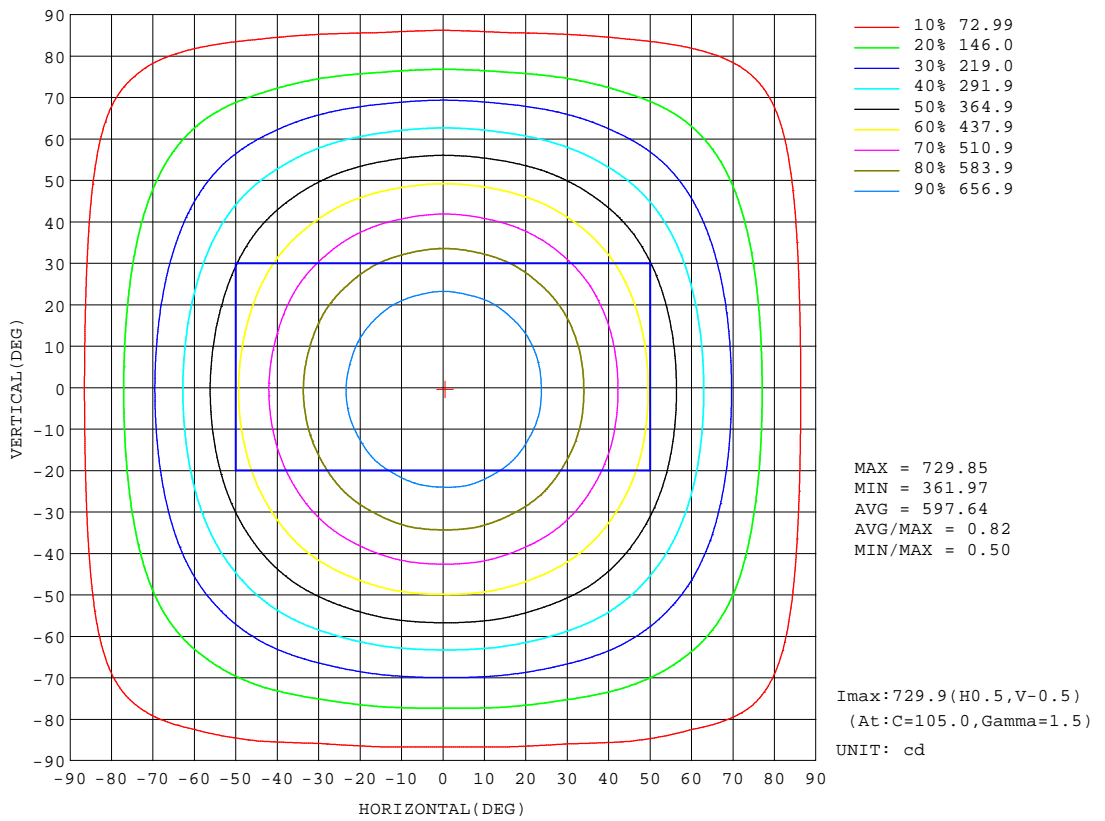
CIE Pub.117, 2223 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 2.8)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2020-05-28

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:3.010m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.00V I:0.2533A P:29.021W PF:0.9547 Freq:59.98Hz Lamp Flux:2223.1x1 lm		
NAME: DLS12-MCT	TYPE:	WEIGHT:
SPEC.:30W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:



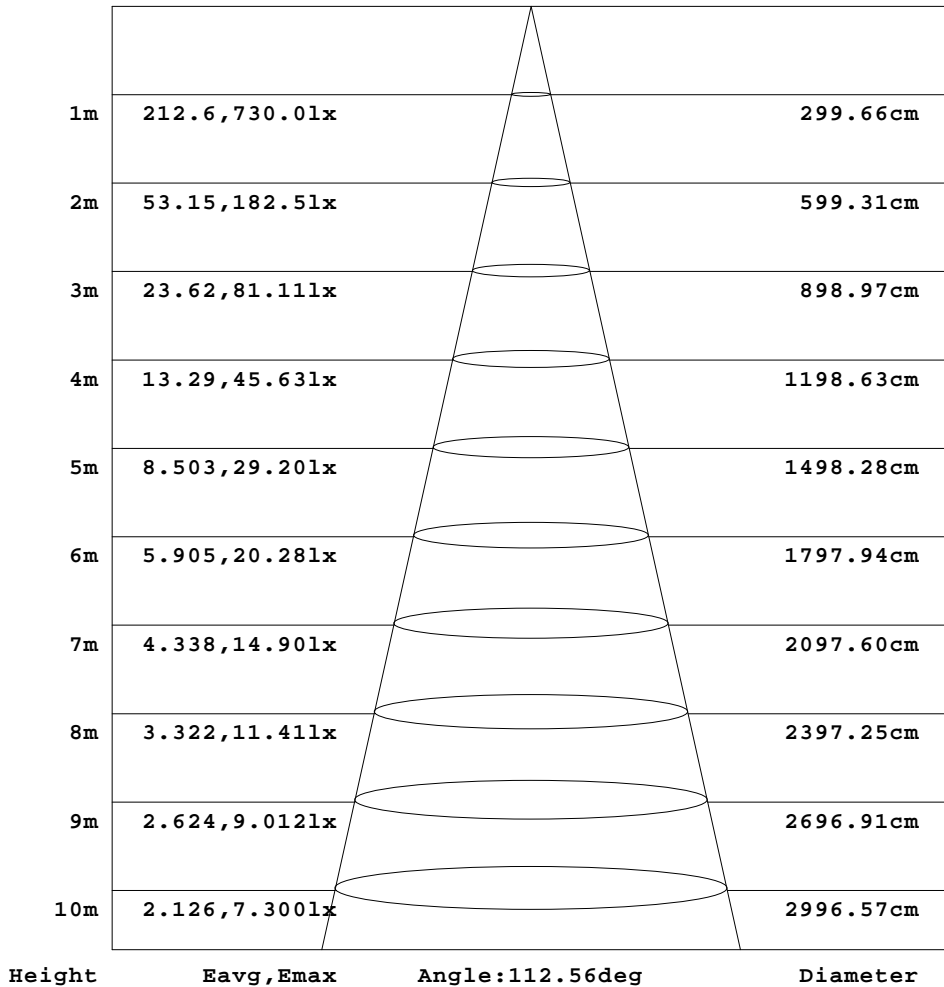
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2020-05-28

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:3.010m [K=1.0000]
 Remarks:

AAI Figure

Test:U:120.00V I:0.2533A P:29.021W PF:0.9547 Freq:59.98Hz Lamp Flux:2223.1x1 lm		
NAME: DLS12-MCT	TYPE:	WEIGHT:
SPEC.:30W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

Flux out:1524 lm



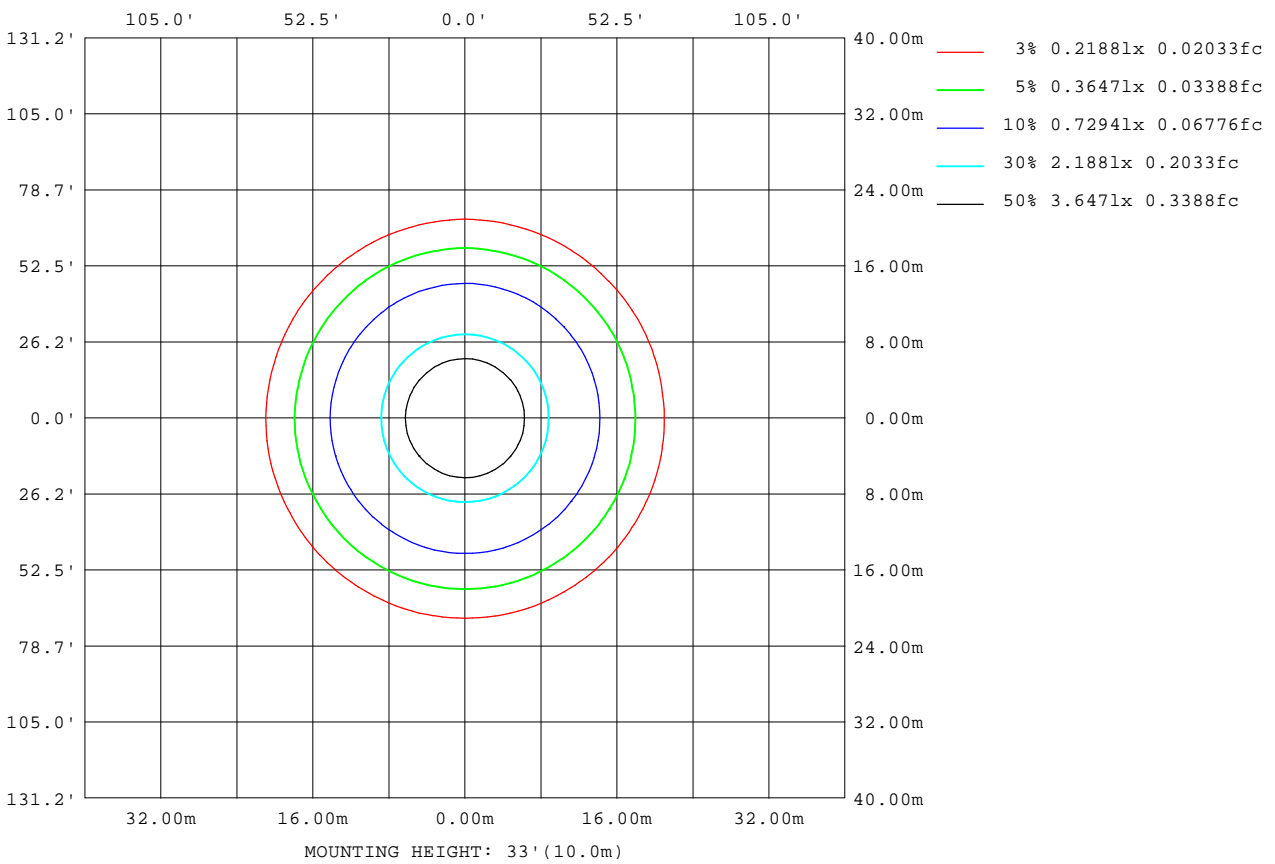
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2020-05-28

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:3.010m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.00V I:0.2533A P:29.021W PF:0.9547 Freq:59.98Hz Lamp Flux:2223.1x1 lm		
NAME: DLS12-MCT	TYPE:	WEIGHT:
SPEC.:30W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2020-05-28

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:3.010m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:120.00V I:0.2533A P:29.021W PF:0.9547 Freq:59.98Hz Lamp Flux:2223.1x1 lm		
NAME: DLS12-MCT	TYPE:	WEIGHT:
SPEC.:30W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

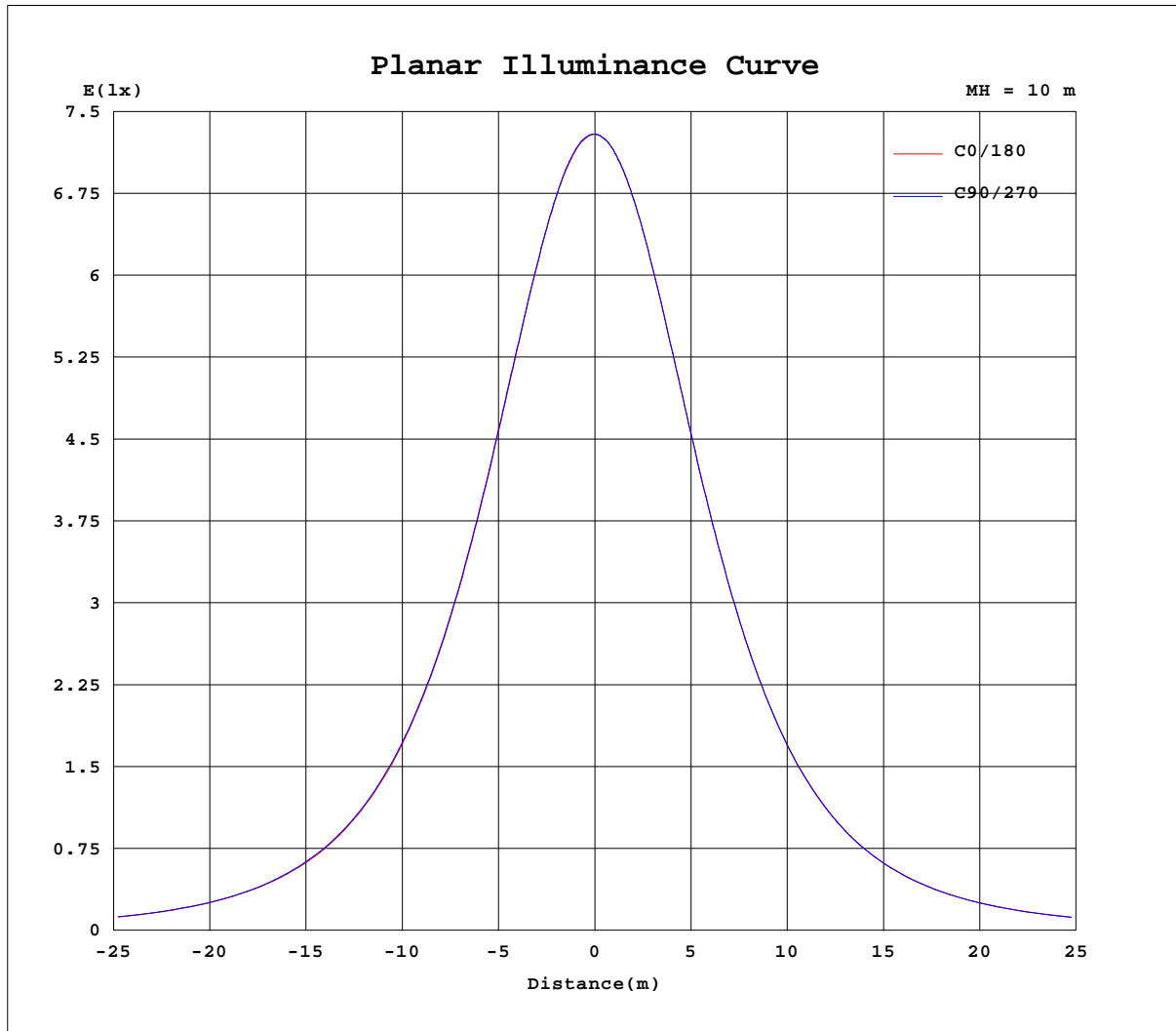
AvgL	cd/m2
L_0~180(65)av	1271
L_0~180(75)av	1276
L_0~180(85)av	1897
L_90~270(65)av	1275
L_90~270(75)av	1278
L_90~270(85)av	1900
L_45(65)av	1268
L_45(75)av	1264
L_45(85)av	1850

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2020-05-28

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:3.010m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators:
 Test Date: 2020-05-28

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity: 65.0%
 Test Distance: 3.010m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.2533A P:29.021W PF:0.9547 Freq:59.98Hz Lamp Flux:2223.1x1 lm		
NAME: DLS12-MCT	TYPE:	WEIGHT:
SPEC.:30W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C(DEG) g (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730
5	727	727	727	727	727	727	727	726	726	726	726	726	726	726	726	725	726	725	725
10	717	718	717	718	717	718	718	717	717	716	716	716	716	715	715	714	715	715	715
15	700	702	701	702	701	703	701	702	700	700	699	699	699	698	697	697	698	697	698
20	678	680	679	680	679	681	679	679	678	678	676	676	676	675	674	673	674	674	675
25	649	652	650	652	651	653	651	651	650	649	647	647	647	646	645	644	645	644	646
30	615	618	617	618	618	619	617	618	616	615	613	613	613	611	610	609	611	609	611
35	576	579	578	579	579	580	578	579	577	576	574	574	573	572	571	570	571	570	572
40	532	535	534	536	535	537	535	536	534	533	530	530	530	528	527	525	527	526	528
45	484	487	486	489	488	489	488	489	486	485	483	483	482	480	480	477	479	478	480
50	433	437	436	438	437	439	437	438	435	435	432	432	431	429	428	426	428	427	429
55	380	383	382	384	384	385	384	384	382	381	378	379	378	375	375	373	374	374	376
60	325	328	327	329	329	331	329	329	327	326	323	324	323	320	320	318	319	319	321
65	269	272	271	274	273	275	273	274	271	270	268	268	268	265	264	262	264	263	266
70	215	218	217	219	219	220	219	219	216	216	214	215	214	211	211	209	210	210	212
75	165	168	166	169	168	170	168	169	166	167	164	165	165	162	161	159	161	160	163
80	120	122	121	123	122	125	123	124	121	122	119	120	121	118	117	115	116	116	118
85	82.1	83.5	81.9	84.4	83.1	85.7	84.7	85.3	82.5	83.6	80.8	82.3	83.2	79.7	78.9	77.0	78.6	78.2	80.9
90	51.2	51.5	52.5	54.5	53.0	53.4	53.8	53.3	53.2	54.4	52.0	50.7	51.8	49.2	49.3	49.9	49.5	48.4	50.2
95	22.2	25.0	31.0	33.5	29.9	24.6	24.4	25.3	30.7	33.8	30.8	24.6	22.8	22.1	28.2	30.8	28.9	22.5	22.1
100	11.0	14.1	18.3	20.3	17.2	12.5	11.5	13.2	17.9	20.5	18.3	14.0	11.4	12.2	17.1	19.1	17.7	12.4	10.7
105	6.00	7.88	10.0	11.2	9.31	7.06	6.00	7.54	9.91	11.4	10.0	7.83	6.24	7.09	9.98	11.0	10.1	7.31	6.11
110	3.85	4.69	5.58	5.90	5.37	4.34	4.08	4.62	5.76	5.95	5.58	4.51	4.05	4.35	5.75	6.08	6.15	4.75	4.25
115	3.36	3.87	4.10	4.28	4.08	3.53	3.48	3.72	4.14	4.36	4.18	3.62	3.32	3.35	4.38	4.59	4.72	3.78	3.74
120	3.19	3.71	3.85	3.92	3.91	3.53	3.43	3.35	4.12	4.09	4.06	3.61	2.71	2.93	3.96	3.99	4.34	3.34	3.46
125	2.78	3.44	3.30	3.63	3.48	3.27	3.30	3.36	3.37	3.10	3.89	3.60	2.49	2.18	3.14	2.48	3.07	2.64	2.86
130	3.10	3.45	3.50	3.97	3.83	3.76	3.71	3.50	3.44	3.45	3.90	3.76	2.71	2.14	2.77	2.75	3.20	2.78	2.47
135	3.67	3.76	3.54	4.14	4.48	3.75	3.84	3.87	3.99	3.68	3.78	3.50	2.87	2.26	2.64	2.23	2.78	2.88	2.58
140	4.05	3.98	3.82	4.35	4.32	3.70	3.86	3.79	3.33	3.31	3.61	3.56	2.96	2.29	2.67	2.26	2.88	2.64	2.68
145	3.86	4.43	4.18	4.51	4.68	4.16	3.92	3.49	3.35	3.79	3.72	3.68	2.99	2.75	2.86	2.48	2.90	2.81	2.91
150	3.67	4.03	4.15	4.96	4.54	4.16	3.86	3.63	3.69	4.01	4.18	4.01	3.15	2.46	2.62	2.60	2.90	2.73	2.70
155	3.54	3.74	3.78	4.46	4.05	4.04	3.91	3.93	3.91	3.88	3.87	3.99	2.75	2.47	2.43	2.74	2.79	2.72	3.09
160	3.76	3.82	3.95	3.85	3.97	4.15	3.66	3.52	3.53	3.71	3.82	3.59	2.70	2.54	2.47	2.47	2.46	2.46	3.28
165	3.72	3.84	3.54	3.61	3.61	3.66	3.47	3.41	3.41	3.62	3.67	3.60	2.94	3.12	2.70	2.60	2.70	2.93	3.46
170	3.91	3.73	3.43	3.40	3.48	3.49	3.64	3.56	3.56	3.63	3.70	3.76	3.19	3.23	3.22	3.14	3.11	3.11	3.50
175	4.13	3.94	3.83	3.80	3.76	3.74	3.78	3.80	3.77	3.86	3.93	3.93	3.79	3.82	3.80	3.74	3.44	3.45	3.89
180	4.45	4.41	4.33	4.08	4.09	4.13	4.18	4.15	4.20	4.21	4.24	4.12	4.45	4.41	4.33	4.09	4.09	4.13	4.18

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2020-05-28

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:3.010m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.2533A P:29.021W PF:0.9547 Freq:59.98Hz Lamp Flux:2223.1x1 lm		
NAME: DLS12-MCT	TYPE:	WEIGHT:
SPEC.:30W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) g (DEG)	285	300	315	330	345															
0	730	730	730	730	730															
5	725	726	726	726	726															
10	715	716	715	716	717															
15	698	699	698	700	700															
20	675	676	675	677	678															
25	646	647	647	648	649															
30	611	613	612	614	615															
35	572	573	573	575	576															
40	528	529	529	531	532															
45	480	481	481	484	484															
50	429	430	430	432	433															
55	375	377	376	379	380															
60	320	322	321	324	324															
65	264	266	265	268	268															
70	210	212	210	214	214															
75	160	162	160	163	164															
80	116	117	115	118	119															
85	78.1	78.5	77.4	79.3	80.3															
90	48.2	49.4	49.8	49.1	49.5															
95	22.2	28.5	30.2	27.4	21.5															
100	12.0	16.9	18.4	16.2	11.4															
105	6.88	9.35	10.3	9.18	6.32															
110	4.14	5.33	5.41	5.08	3.72															
115	3.34	4.01	3.99	3.77	3.20															
120	3.33	4.05	3.71	3.68	3.30															
125	2.80	3.04	3.18	3.22	3.34															
130	2.84	3.55	3.55	3.45	3.34															
135	3.35	3.07	3.33	3.37	3.36															
140	3.08	3.22	3.35	3.82	3.47															
145	2.93	3.45	3.93	3.66	3.71															
150	2.93	3.63	3.34	3.63	3.37															
155	3.28	3.09	3.16	3.23	3.24															
160	3.11	2.95	3.33	3.30	3.23															
165	3.45	3.37	3.59	3.39	3.33															
170	3.76	3.72	3.69	3.59	3.53															
175	3.97	3.94	3.89	3.82	3.82															
180	4.15	4.20	4.20	4.24	4.12															

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2020-05-28

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:3.010m [K=1.0000]
 Remarks: