

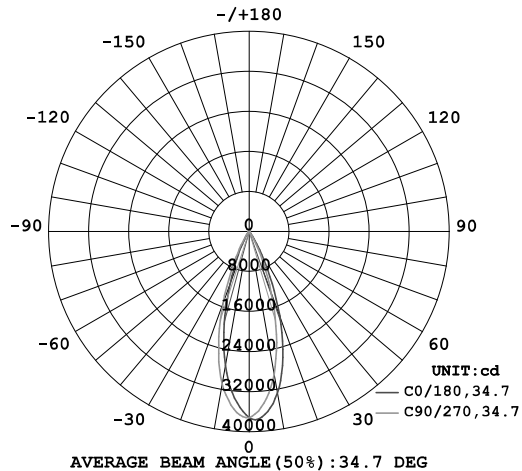
LED lens Clear

LUMINAIRE PHOTOMETRIC TEST REPORT

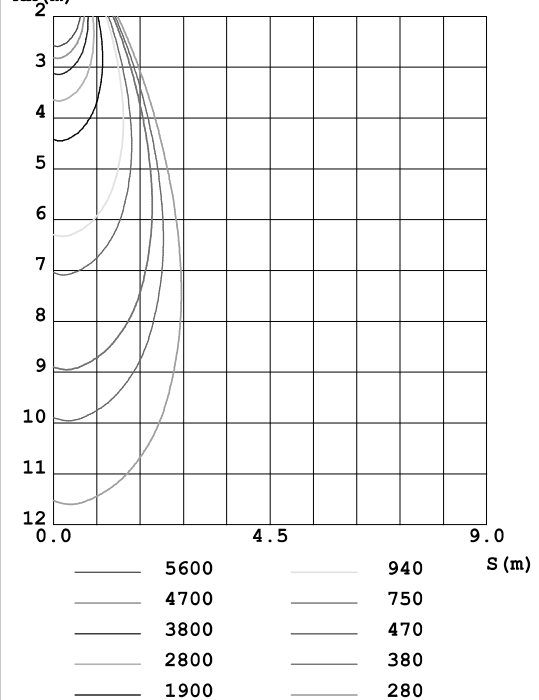
Test:U:227.01V I:0.4194A P:94.116W PF:0.9886 Freq:50.03Hz Lamp Flux:14118.8x1 lm		
NAME: LED lens	TYPE:	WEIGHT:4kg
SPEC.:	DIM.: 1500*76*70	SERIAL No.:CSLS19L06YF00104393
MFR.: LEDMADA	SUR.:1500*70*76	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 150.01 lm/W			
MODEL	XTE	I _{max} (cd)	37650	S/MH(C0/180)	0.51
NOMINAL POWER(W)	50	LOR(%)	100.0	S/MH(C90/270)	0.58
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	14119	□ UP,DN(C0-180)	0.4,52.7
NOMINAL FLUX(lm)	14118.8	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.3,46.6
LAMPS INSIDE	1	□ up (%)	0.7	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	230.0	□ down (%)	99.3	CIBSE SHR MAX	0.60

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LYH
Test Date:2021.1.9

□ Range: 0 - 180DEG
□ Interval: 1.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.350m [K=1.0000]
Remarks:

LED lens Clear

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

mm	C0	C90	C180	C270					mm	□ zone	□ total	%lum, lamp
10	3277	2898	2715	3097					0- 10	3183	3183	22.5, 22.5
20	1794	1301	1103	1527					10- 20	6107	9289	65.8, 65.8
30	437.1	232.1	177.0	325.7					20- 30	3435	12724	90.1, 90.1
40	51.88	35.49	33.91	45.22					30- 40	721.0	13445	95.2, 95.2
50	22.52	20.11	19.44	21.53					40- 50	216.3	13661	96.8, 96.8
60	16.09	14.47	13.74	15.47					50- 60	159.2	13821	97.9, 97.9
70	10.02	8.243	7.464	9.192					60- 70	117.3	13938	98.7, 98.7
80	4.185	2.906	2.372	3.523					70- 80	61.43	13999	99.2, 99.2
90	0.7234	0.1011	0.0966	0.3118					80- 90	16.80	14016	99.3, 99.3
100	0.0642	0.0678	0.0775	0.0620					90-100	1.096	14017	99.3, 99.3
110	0.0841	0.1022	0.1021	0.0770					100-110	0.8060	14018	99.3, 99.3
120	0.2068	0.3047	0.2871	0.1794					110-120	1.421	14020	99.3, 99.3
130	0.8670	1.211	1.143	0.7518					120-130	4.824	14024	99.3, 99.3
140	2.623	3.163	3.110	2.255					130-140	13.78	14038	99.4, 99.4
150	5.207	5.573	5.540	4.465					140-150	24.74	14063	99.6, 99.6
160	7.248	7.153	6.989	6.319					150-160	28.32	14091	99.8, 99.8
170	7.827	7.387	7.364	7.021					160-170	20.44	14112	99.9, 99.9
180	7.716	7.326	7.716	7.323					170-180	7.097	14119	100, 100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

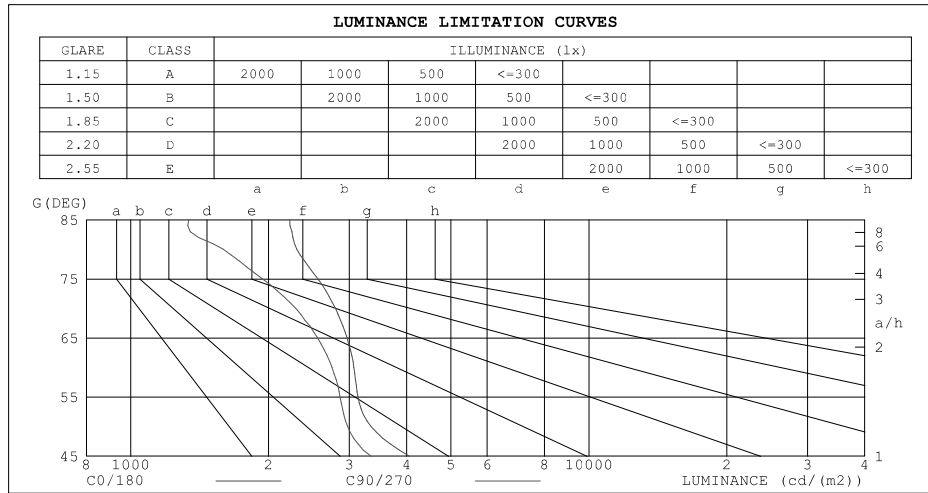
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LYH
Test Date:2021.1.9

□ Range: 0 - 180DEG
□ Interval: 1.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.350m [K=1.0000]
Remarks:

LED lens Clear

LUMINANCE LIMITATION CURVES

Test:U:227.01V I:0.4194A P:94.116W PF:0.9886 Freq:50.03Hz Lamp Flux:14118.8x1 lm		
NAME: LED lens	TYPE:	WEIGHT:4kg
SPEC.:	DIM.: 1500*76*70	SERIAL No.:CSLS19L06YF00104393
MFR.: LEDMADA	SUR.:1500*70*76	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2221	1338
80	2301	1590
75	2562	1941
70	2797	2290
65	2967	2556
60	3072	2749
55	3133	2864
50	3344	2973
45	4064	3352

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
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☐ Range: 0 - 180DEG
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Test System:EVERFINE GO-2000 SYSTEM V2.0.366
Humidity:65.0%
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Remarks:

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WEC AND CCEC

Test:U:227.01V I:0.4194A P:94.116W PF:0.9886 Freq:50.03Hz Lamp Flux:14118.8x1 lm					
NAME: LED lens			TYPE:		WEIGHT:4kg
SPEC.:			DIM.: 1500*76*70		SERIAL No.:CSLS19L06YF00104393
MFR.: LEDMADA			SUR.:1500*70*76		Shielding Angle:

□cc	80%			70%			50%			30%			10%			0	
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
□fc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)										
0.0																	
1.0	.157	.089	.028	.150	.085	.027	.137	.079	.025	.125	.072	.023	.114	.066	.021		
2.0	.146	.080	.025	.141	.078	.024	.130	.072	.022	.120	.067	.021	.111	.063	.020		
3.0	.137	.073	.022	.132	.071	.021	.123	.067	.020	.115	.063	.019	.107	.059	.018		
4.0	.129	.067	.020	.125	.065	.019	.117	.062	.019	.110	.059	.018	.103	.056	.017		
5.0	.122	.062	.018	.118	.061	.018	.112	.058	.017	.105	.056	.017	.100	.053	.016		
6.0	.116	.058	.017	.113	.057	.016	.107	.055	.016	.101	.053	.015	.096	.051	.015		
7.0	.110	.054	.015	.107	.053	.015	.102	.052	.015	.097	.050	.015	.093	.048	.014		
8.0	.105	.051	.014	.103	.050	.014	.098	.049	.014	.094	.047	.014	.090	.046	.013		
9.0	.100	.049	.014	.098	.048	.013	.094	.047	.013	.090	.045	.013	.087	.044	.013		
10.0	.096	.046	.013	.094	.046	.013	.091	.044	.013	.087	.043	.012	.084	.042	.012		

□cc	80%			70%			50%			30%			10%			0	
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
□fc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)										
0.0	.196	.196	.196	.168	.168	.168	.114	.114	.114	.066	.066	.066	.021	.021	.021		
1.0	.175	.163	.152	.150	.140	.131	.103	.096	.091	.059	.056	.053	.019	.018	.017		
2.0	.158	.138	.121	.136	.119	.105	.093	.082	.073	.054	.048	.043	.017	.015	.014		
3.0	.145	.119	.099	.124	.103	.086	.085	.071	.060	.049	.042	.035	.016	.014	.012		
4.0	.133	.104	.082	.114	.090	.071	.078	.063	.050	.045	.037	.030	.015	.012	.010		
5.0	.123	.092	.069	.106	.080	.060	.073	.056	.042	.042	.033	.025	.014	.011	.008		
6.0	.115	.082	.059	.099	.071	.051	.068	.050	.036	.039	.029	.022	.013	.010	.007		
7.0	.108	.074	.051	.093	.064	.044	.064	.045	.032	.037	.027	.019	.012	.009	.006		
8.0	.101	.068	.045	.087	.059	.039	.060	.041	.028	.035	.024	.016	.011	.008	.005		
9.0	.096	.062	.040	.083	.054	.035	.057	.038	.025	.033	.022	.015	.011	.007	.005		
10.0	.091	.058	.035	.079	.050	.031	.055	.035	.022	.032	.021	.013	.010	.007	.004		

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LYH
Test Date:2021.1.9

□ Range: 0 - 180DEG
□ Interval: 1.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.350m [K=1.0000]
Remarks:

LED lens Clear

UGR(Unified Glare Rating) Table

Test:U:227.01V I:0.4194A P:94.116W PF:0.9886 Freq:50.03Hz Lamp Flux:14118.8x1 lm											
NAME: LED lens					TYPE:			WEIGHT:4kg			
SPEC.:					DIM.: 1500*76*70			SERIAL No.:CSLS19L06YF00104393			
MFR.: LEDMADA					SUR.:1500*70*76			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	1.8	2.5	2.0	2.7	2.9	-0.1	0.7	0.2	0.9	1.0	
	3H	2.4	3.1	2.7	3.3	3.5	0.8	1.5	1.1	1.7	1.9
	4H	2.7	3.4	3.0	3.6	3.8	1.1	1.8	1.4	2.0	2.2
	6H	2.9	3.6	3.2	3.8	4.1	1.3	1.9	1.6	2.2	2.4
	8H	3.0	3.6	3.3	3.9	4.2	1.4	2.0	1.7	2.2	2.5
	12H	3.1	3.7	3.4	3.9	4.2	1.4	2.0	1.7	2.2	2.5
4H	2H	1.9	2.6	2.2	2.8	3.0	0.3	1.0	0.6	1.2	1.4
	3H	2.7	3.3	3.1	3.6	3.9	1.4	2.0	1.7	2.2	2.5
	4H	3.1	3.7	3.5	4.0	4.3	1.8	2.3	2.1	2.6	3.0
	6H	3.5	4.0	3.9	4.3	4.7	2.1	2.6	2.5	2.9	3.3
	8H	3.6	4.0	4.0	4.4	4.8	2.1	2.6	2.5	3.0	3.3
	12H	3.7	4.1	4.1	4.5	4.9	2.2	2.6	2.6	3.0	3.4
8H	4H	3.2	3.7	3.6	4.0	4.4	2.0	2.4	2.4	2.8	3.2
	6H	3.6	4.0	4.1	4.4	4.8	2.4	2.7	2.8	3.1	3.5
	8H	3.8	4.1	4.3	4.6	5.0	2.5	2.8	2.9	3.2	3.7
	12H	4.0	4.2	4.4	4.7	5.2	2.6	2.8	3.0	3.3	3.8
12H	4H	3.2	3.6	3.6	4.0	4.4	2.0	2.4	2.4	2.7	3.2
	6H	3.6	4.0	4.1	4.4	4.8	2.4	2.7	2.8	3.1	3.6
	8H	3.8	4.1	4.3	4.6	5.1	2.5	2.8	3.0	3.3	3.7
Variations with the observer position at spacings:											
S = 1.0H	+ 1.0 / - 0.6					+ 0.4 / - 0.5					
1.5H	+ 1.9 / - 0.5					+ 0.6 / - 0.4					
2.0H	+ 0.3 / - 0.3					+ 0.2 / - 0.3					

CIE Pub.117, 14119 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 9.2)

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LYH
Test Date:2021.1.9

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.350m [K=1.0000]
Remarks:

LED lens Clear

UTILIZATION FACTORS TABLE

Test:U:227.01V I:0.4194A P:94.116W PF:0.9886 Freq:50.03Hz Lamp Flux:14118.8x1 lm		
NAME: LED lens	TYPE:	WEIGHT:4kg
SPEC.:	DIM.: 1500*76*70	SERIAL No.:CSLS19L06YF00104393
MFR.: LEDMADA	SUR.:1500*70*76	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	89	83	79	88	82	79	87	82	79	75
0.80	96	90	87	95	90	86	94	89	86	82
1.00	100	94	91	99	94	91	97	94	90	86
1.25	104	99	95	102	98	95	100	97	94	90
1.50	106	102	98	105	101	98	103	99	97	92
2.00	109	105	101	107	103	101	104	101	99	94
2.50	110	107	104	109	105	103	105	103	101	95
3.00	112	108	106	110	107	105	106	104	102	96
4.00	114	111	109	112	109	108	108	106	105	97
5.00	115	113	111	113	111	109	109	107	106	98
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

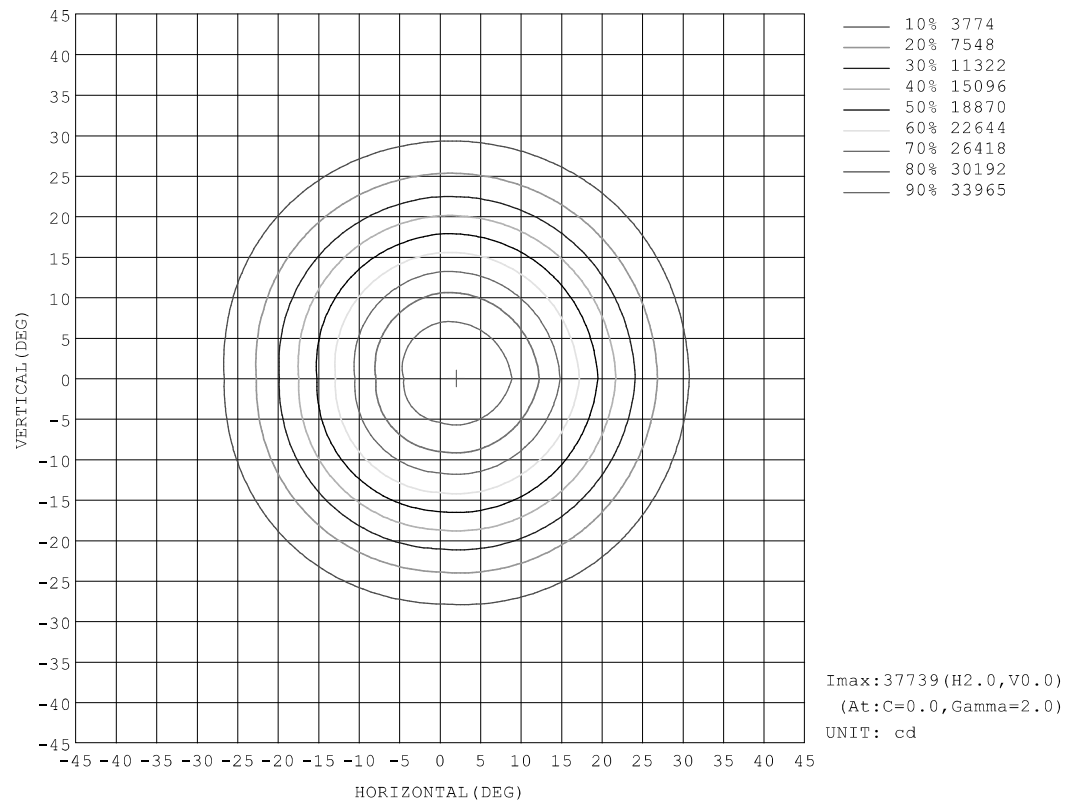
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Test System:EVERFINE GO-2000 SYSTEM V2.0.366
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Remarks:

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ISOCANDELA DIAGRAM

Test:U:227.01V I:0.4194A P:94.116W PF:0.9886 Freq:50.03Hz Lamp Flux:14118.8x1 lm		
NAME: LED lens	TYPE:	WEIGHT:4kg
SPEC.:	DIM.: 1500*76*70	SERIAL No.:CSLS19L06YF00104393
MFR.: LEDMADA	SUR.:1500*70*76	Shielding Angle:



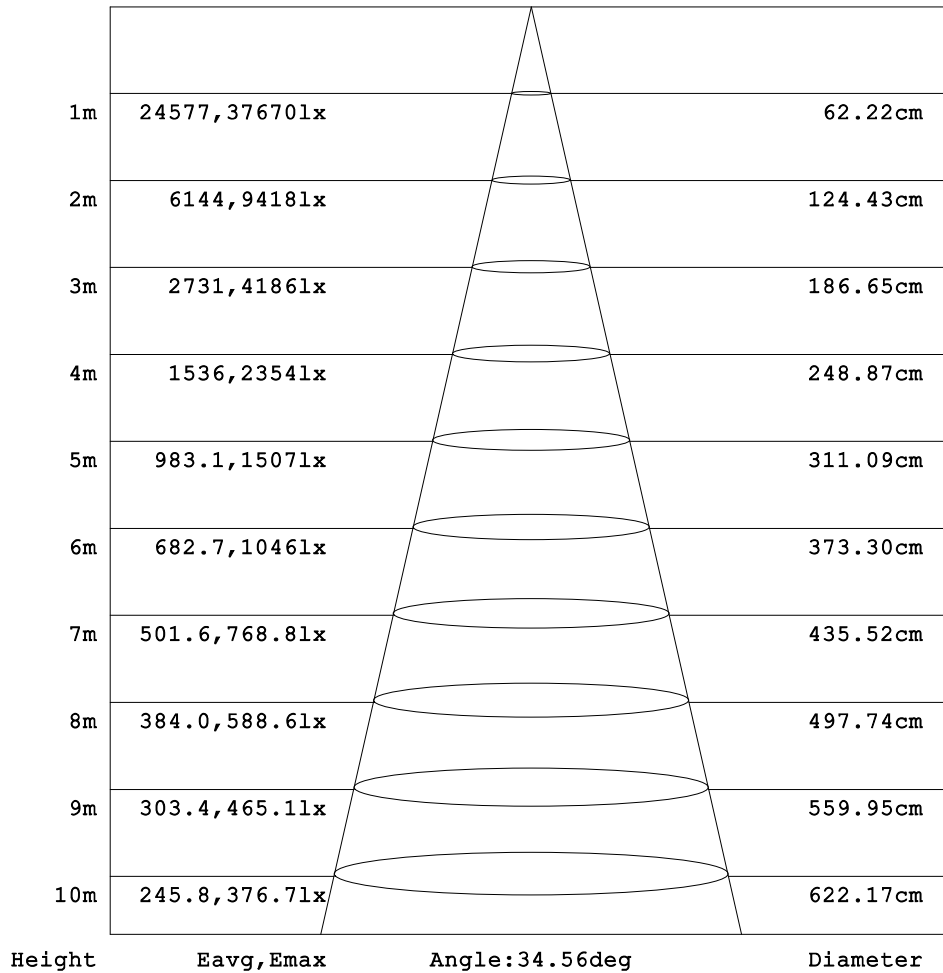
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Temperature:25.3DEG
Operators:LYH
Test Date:2021.1.9

□ Range: 0 - 180DEG
□ Interval: 1.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.350m [K=1.0000]
Remarks:

AAI Figure

Test:U:227.01V I:0.4194A P:94.116W PF:0.9886 Freq:50.03Hz Lamp Flux:14118.8x1 lm		
NAME: LED lens	TYPE:	WEIGHT:4kg
SPEC.:	DIM.: 1500*76*70	SERIAL No.:CSLS19L06YF00104393
MFR.: LEDMADA	SUR.:1500*70*76	Shielding Angle:

Flux out:8151 lm

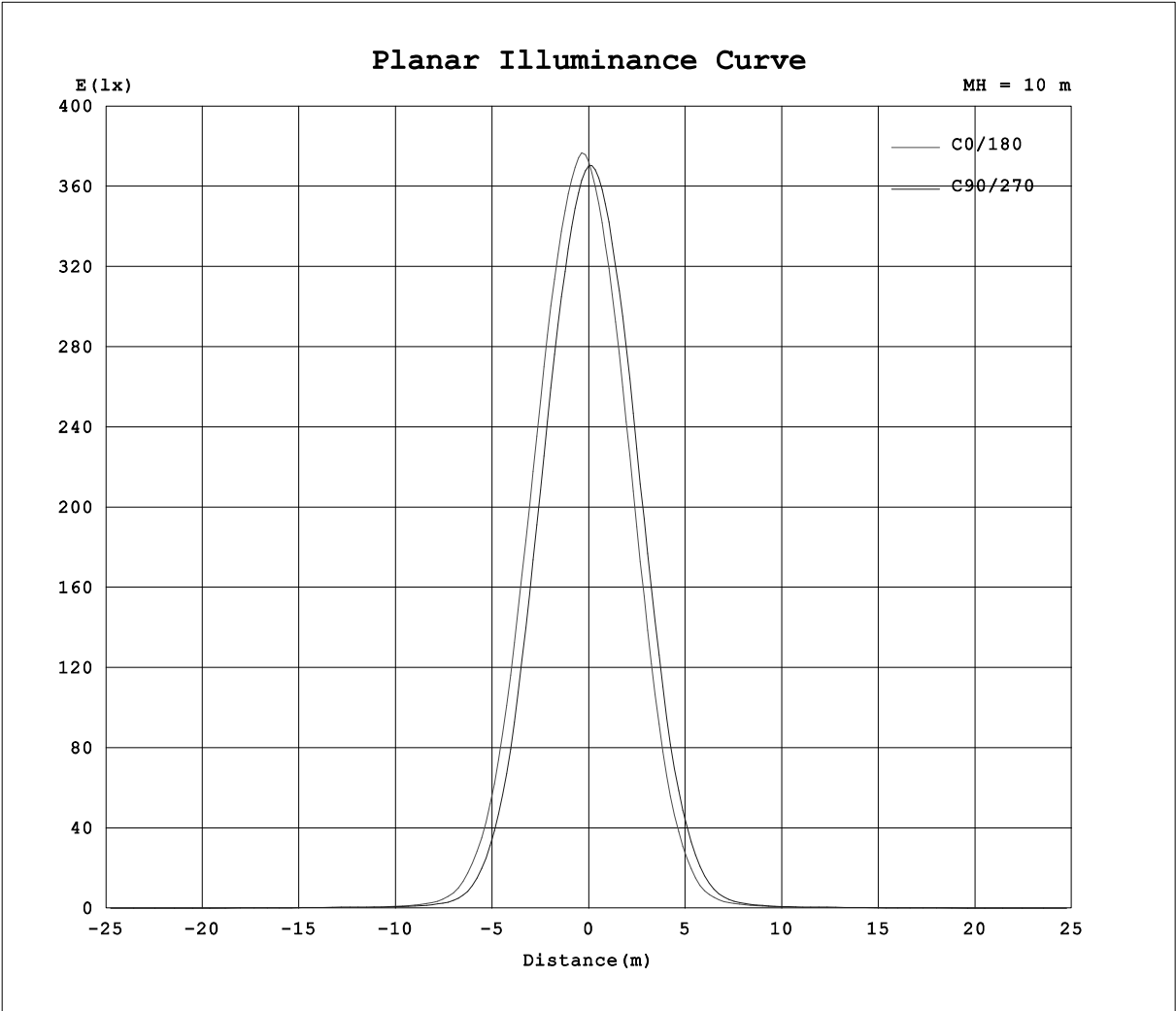


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
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 Temperature:25.3DEG
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 □ Interval: 1.0DEG
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 Humidity:65.0%
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 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG	☐ Range: 0 - 180DEG
C Interval: 90.0DEG	☐ Interval: 1.0DEG
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LUMINOUS DISTRIBUTION INTENSITY DATA

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NAME: LED lens	TYPE:	WEIGHT:4kg
SPEC.:	DIM.: 1500*76*70	SERIAL No.:CSLS19L06YF00104393
MFR.: LEDMADA	SUR.:1500*70*76	Shielding Angle:

Table--1

UNIT: ×10cd

C (DEG) □ (DEG)	0	90	180	270															
0	3713	3713	3713	3713															
5	3667	3444	3339	3562															
10	3277	2898	2715	3097															
15	2607	2126	1915	2354															
20	1794	1301	1103	1527															
25	992	635	513	791															
30	437	232	177	326															
35	140	72.7	63.2	106															
40	51.9	35.5	33.9	45.2															
45	30.1	24.9	23.6	28.5															
50	22.5	20.1	19.4	21.5															
55	18.8	17.3	16.7	18.3															
60	16.1	14.5	13.7	15.5															
65	13.1	11.4	10.6	12.4															
70	10.0	8.24	7.46	9.19															
75	6.95	5.29	4.62	6.10															
80	4.18	2.91	2.37	3.52															
85	2.03	1.23	0.91	1.54															
90	0.72	0.10	0.10	0.31															
95	0.08	0.06	0.07	0.07															
100	0.06	0.07	0.08	0.06															
105	0.07	0.08	0.09	0.07															
110	0.08	0.10	0.10	0.08															
115	0.12	0.16	0.15	0.10															
120	0.21	0.30	0.29	0.18															
125	0.43	0.64	0.59	0.37															
130	0.87	1.21	1.14	0.75															
135	1.59	2.07	2.00	1.38															
140	2.62	3.16	3.11	2.26															
145	3.88	4.38	4.35	3.32															
150	5.21	5.57	5.54	4.47															
155	6.40	6.55	6.45	5.51															
160	7.25	7.15	6.99	6.32															
165	7.69	7.38	7.23	6.79															
170	7.83	7.39	7.36	7.02															
175	7.79	7.31	7.52	7.17															
180	7.72	7.33	7.72	7.32															

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