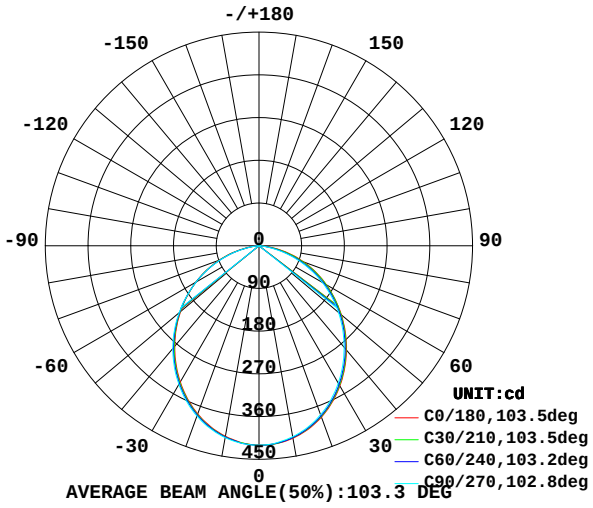
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.3V I:0.0520A P:12.30W PF:0.9720 Lamp Flux:1079.73x1 lm		
NAME: CL22-3.5-12W-P3	TYPE:12W	WEIGHT:
DIM.:	SPEC.:5700K	SERIAL No.:
MFR.:	SUR.:0.044	PROTECTION ANGLE:

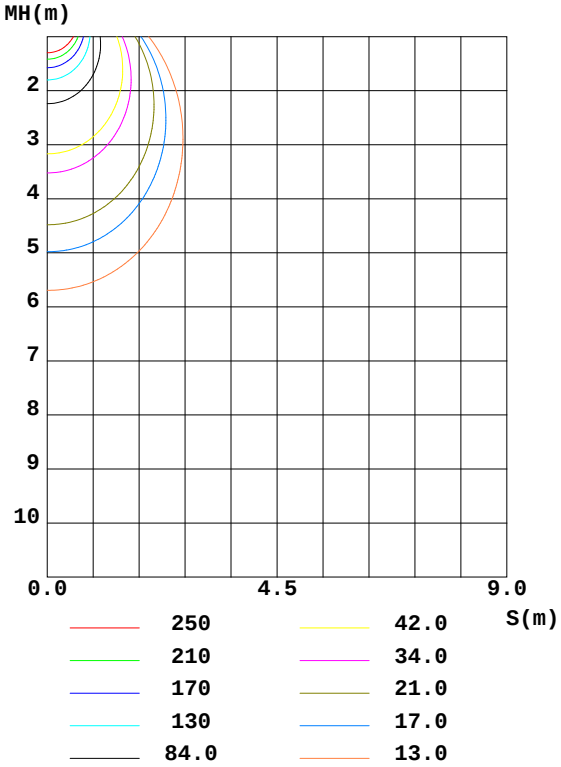
DATA OF LAMP		PHOTOMETRIC DATA Eff: 87.78 lm/W			
MODEL	CL22-3.5-12W-P3	Imax(cd)	420.3	S/MH(C0/180)	1.21
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)	1.19
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	1079.7	η UP,DN(C0-180)	0.6,49.5
NOMINAL FLUX(lm)	1079.73	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.6,49.3
LAMPS INSIDE	1	η up(%)	1.2	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	240.2	η down(%)	98.8	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):103.3 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2020-12-17

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:10.237m [K=1.0000]
Remarks:

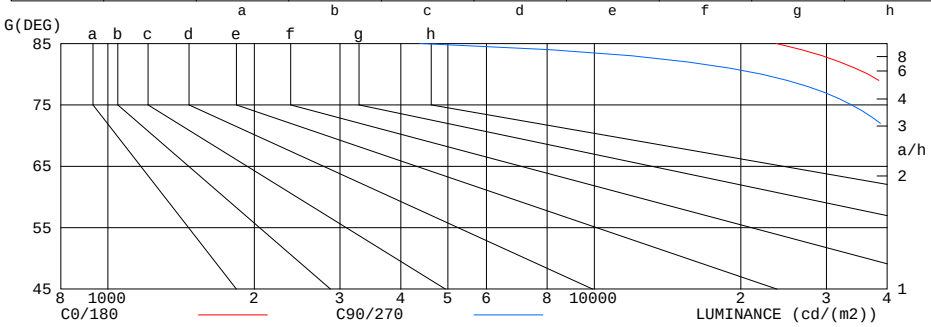
ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	411.8	410.4	408.6	407.9	407.5	408.9	410.5	411.4	0- 10	39.60	39.60	3.67,3.67
20	384.5	382.3	379.1	377.4	377.1	379.4	382.0	383.8	10- 20	112.0	151.6	14,14
30	340.9	338.4	334.1	331.6	331.6	334.3	337.6	340.3	20- 30	165.8	317.3	29.4,29.4
40	286.8	283.9	279.1	276.1	276.2	279.2	282.7	285.8	30- 40	193.6	510.9	47.3,47.3
50	226.7	223.8	218.8	215.5	215.8	218.0	219.7	224.9	40- 50	193.8	704.8	65.3,65.3
60	163.9	160.3	153.5	152.2	153.4	153.3	153.1	160.1	50- 60	168.5	873.3	80.9,80.9
70	100.6	94.25	86.02	86.74	90.28	87.50	85.84	93.92	60- 70	122.1	995.5	92.2,92.2
80	38.44	30.28	23.31	25.02	28.27	25.33	23.61	30.65	70- 80	61.74	1057	97.9,97.9
90	0.5201	0.4850	0.3618	0.3983	0.4002	0.3762	0.3171	0.4509	80- 90	9.234	1066	98.8,98.8
100	0.8477	0.8646	0.8389	0.8841	0.8136	0.7556	0.6822	0.6973	90-100	0.6600	1067	98.8,98.8
110	1.458	1.444	1.464	1.532	1.347	1.304	1.217	1.222	100-110	1.137	1068	98.9,98.9
120	2.145	2.115	2.139	2.148	2.033	1.893	1.907	1.810	110-120	1.678	1070	99.1,99.1
130	2.769	2.723	2.674	2.757	2.539	2.466	2.428	2.405	120-130	2.067	1072	99.3,99.3
140	3.169	3.331	3.174	3.363	3.099	3.008	3.019	2.944	130-140	2.219	1074	99.5,99.5
150	3.842	3.823	3.983	3.853	3.549	3.485	3.525	3.441	140-150	2.142	1076	99.7,99.7
160	4.283	4.227	4.434	4.254	3.877	3.833	3.891	3.817	150-160	1.791	1078	99.9,99.9
170	4.375	4.494	4.398	4.459	4.263	4.199	4.229	4.184	160-170	1.186	1079	100,100
180	4.606	4.687	4.588	4.659	4.613	4.690	4.581	4.649	170-180	0.4233	1080	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	23648	4377
80	36575	22099
75	44244	33787
70	48619	41400
65	51697	46644
60	54146	50524
55	56247	53581
50	58266	56040
45	60106	58056

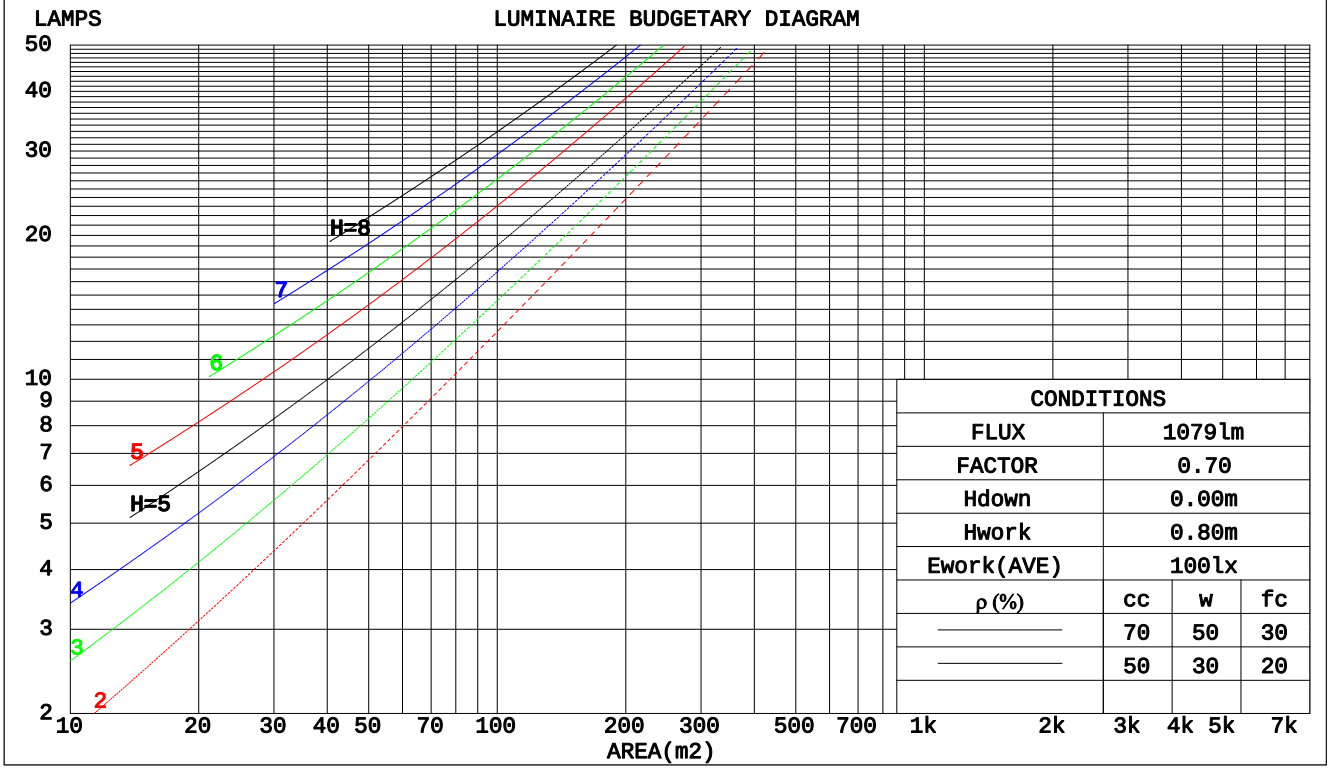
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2020-12-17

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:10.237m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:240.3V I:0.0520A P:12.30W PF:0.9720 Lamp Flux:1079.73x1 lm		
NAME: CL22-3.5-12W-P3	TYPE:12W	WEIGHT:
DIM.:	SPEC.:5700K	SERIAL No.:
MFR.:	SUR.:0.044	PROTECTION ANGLE:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	.99
1.0	1.05	1.01	.97	1.02	.99	.95	.98	.95	.92	.94	.91	.89	.90	.88	.86	.84
2.0	.92	.85	.80	.90	.84	.79	.86	.81	.77	.83	.78	.75	.79	.76	.73	.71
3.0	.81	.73	.67	.79	.72	.66	.76	.70	.65	.73	.68	.63	.70	.66	.62	.60
4.0	.72	.63	.57	.70	.63	.56	.68	.61	.55	.65	.59	.55	.63	.58	.54	.52
5.0	.64	.56	.49	.63	.55	.49	.61	.54	.48	.59	.52	.48	.57	.51	.47	.45
6.0	.58	.49	.43	.57	.49	.43	.55	.48	.42	.53	.47	.42	.52	.46	.41	.39
7.0	.53	.44	.38	.52	.44	.38	.50	.43	.38	.49	.42	.37	.47	.41	.37	.35
8.0	.48	.40	.34	.47	.39	.34	.46	.39	.34	.45	.38	.33	.43	.38	.33	.31
9.0	.44	.36	.31	.44	.36	.31	.42	.35	.30	.41	.35	.30	.40	.34	.30	.28
10.0	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.27	.37	.31	.27	.26



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2020-12-17

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:10.237m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:240.3V I:0.0520A P:12.30W PF:0.9720 Lamp Flux:1079.73x1 lm		
NAME: CL22-3.5-12W-P3	TYPE:12W	WEIGHT:
DIM.:	SPEC.:5700K	SERIAL No.:
MFR.:	SUR.:0.044	PROTECTION ANGLE:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Wall Exitance Coeffcients(WEC)												
0.0																
1.0	.289	.164	.052	.281	.160	.051	.267	.153	.049	.255	.147	.047	.243	.141	.045	
2.0	.277	.152	.047	.270	.149	.046	.258	.143	.045	.247	.138	.043	.236	.134	.042	
3.0	.258	.138	.041	.253	.135	.041	.242	.131	.040	.232	.127	.039	.223	.123	.038	
4.0	.240	.125	.037	.235	.123	.036	.225	.120	.036	.216	.116	.035	.208	.113	.034	
5.0	.223	.114	.033	.218	.112	.033	.210	.109	.032	.202	.107	.032	.195	.104	.031	
6.0	.208	.104	.030	.204	.103	.030	.196	.100	.029	.189	.098	.029	.182	.096	.028	
7.0	.194	.096	.027	.190	.095	.027	.183	.093	.027	.177	.091	.026	.171	.089	.026	
8.0	.181	.089	.025	.178	.088	.025	.172	.086	.025	.166	.084	.024	.161	.083	.024	
9.0	.170	.082	.023	.167	.082	.023	.162	.080	.023	.157	.079	.022	.152	.077	.022	
10.0	.160	.077	.021	.158	.076	.021	.153	.075	.021	.148	.073	.021	.144	.072	.021	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	.188	.166	.145	.161	.142	.125	.110	.098	.087	.063	.057	.050	.020	.018	.016	
2.0	.180	.142	.109	.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	.110	.069	.141	.095	.060	.097	.066	.042	.056	.039	.025	.018	.013	.008	
5.0	.157	.100	.058	.135	.086	.050	.093	.060	.036	.054	.035	.021	.017	.012	.007	
6.0	.150	.092	.050	.129	.079	.043	.089	.055	.031	.052	.033	.018	.017	.011	.006	
7.0	.143	.085	.044	.123	.073	.038	.085	.051	.027	.049	.030	.016	.016	.010	.005	
8.0	.137	.079	.039	.118	.068	.034	.082	.048	.024	.047	.028	.014	.015	.009	.005	
9.0	.131	.074	.035	.113	.064	.031	.078	.045	.022	.046	.027	.013	.015	.009	.004	
10.0	.125	.070	.033	.108	.060	.028	.075	.043	.020	.044	.025	.012	.014	.008	.004	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2020-12-17

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:10.237m [K=1.0000]
Remarks:

Uncorrected UGR Table

Test:U:240.3V I:0.0520A P:12.30W PF:0.9720 Lamp Flux:1079.73x1 lm		
NAME: CL22-3.5-12W-P3	TYPE:12W	WEIGHT:
DIM.:	SPEC.:5700K	SERIAL No.:
MFR.:	SUR.:0.044	PROTECTION 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	26.9	28.3	27.1	28.5	28.8	26.6	28.0	26.9	28.3	28.5
	3H	28.3	29.6	28.6	29.9	30.2	27.8	29.2	28.2	29.4	29.7
	4H	28.9	30.1	29.2	30.4	30.7	28.2	29.5	28.6	29.8	30.1
	6H	29.2	30.4	29.6	30.7	31.0	28.4	29.6	28.8	29.9	30.2
	8H	29.3	30.4	29.6	30.7	31.1	28.4	29.6	28.8	29.9	30.2
	12H	29.3	30.4	29.7	30.7	31.1	28.4	29.5	28.7	29.8	30.1
4H	2H	27.4	28.7	27.7	28.9	29.2	27.2	28.5	27.5	28.7	29.0
	3H	29.0	30.1	29.4	30.4	30.8	28.6	29.7	29.0	30.0	30.4
	4H	29.7	30.7	30.1	31.0	31.4	29.1	30.1	29.5	30.5	30.8
	6H	30.1	31.0	30.6	31.4	31.8	29.4	30.2	29.8	30.6	31.0
	8H	30.3	31.1	30.7	31.5	31.9	29.4	30.2	29.8	30.6	31.0
	12H	30.3	31.1	30.7	31.5	31.9	29.3	30.1	29.8	30.5	30.9
8H	4H	29.9	30.7	30.3	31.1	31.5	29.3	30.2	29.8	30.5	31.0
	6H	30.4	31.1	30.9	31.5	32.0	29.7	30.3	30.1	30.8	31.2
	8H	30.6	31.2	31.0	31.6	32.1	29.7	30.3	30.2	30.7	31.2
	12H	30.6	31.2	31.1	31.6	32.1	29.7	30.2	30.2	30.7	31.2
12H	4H	29.8	30.6	30.3	31.0	31.4	29.3	30.1	29.8	30.5	30.9
	6H	30.4	31.0	30.9	31.5	31.9	29.7	30.3	30.2	30.7	31.2
	8H	30.6	31.1	31.1	31.6	32.1	29.7	30.2	30.2	30.7	31.2

Variations with the observer position at spacings:		
S = 1.0H	+ 0.2 / - 0.2	+ 0.2 / - 0.3
1.5H	+ 0.2 / - 0.3	+ 0.2 / - 0.4
2.0H	+ 0.2 / - 0.3	+ 0.3 / - 0.4

CIE Pub.117 Corrected 1080 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.3)

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2020-12-17

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:10.237m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:240.3V I:0.0520A P:12.30W PF:0.9720 Lamp Flux:1079.73x1 lm		
NAME: CL22-3.5-12W-P3	TYPE:12W	WEIGHT:
DIM.:	SPEC.:5700K	SERIAL No.:
MFR.:	SUR.:0.044	PROTECTION 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	59	48	41	58	47	41	57	47	41	34
0.80	69	58	51	68	57	51	66	57	50	43
1.00	77	67	60	76	66	59	74	67	59	52
1.25	84	74	68	83	74	67	80	72	66	59
1.50	89	80	73	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	97	91	101	95	90	97	92	88	79
4.00	107	102	97	104	100	96	100	96	93	84
5.00	109	105	101	107	103	99	102	99	96	87
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

C Range: 0 - 360DEG
C Interval: 30.0DEG
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Operators:DAMIN
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:10.237m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

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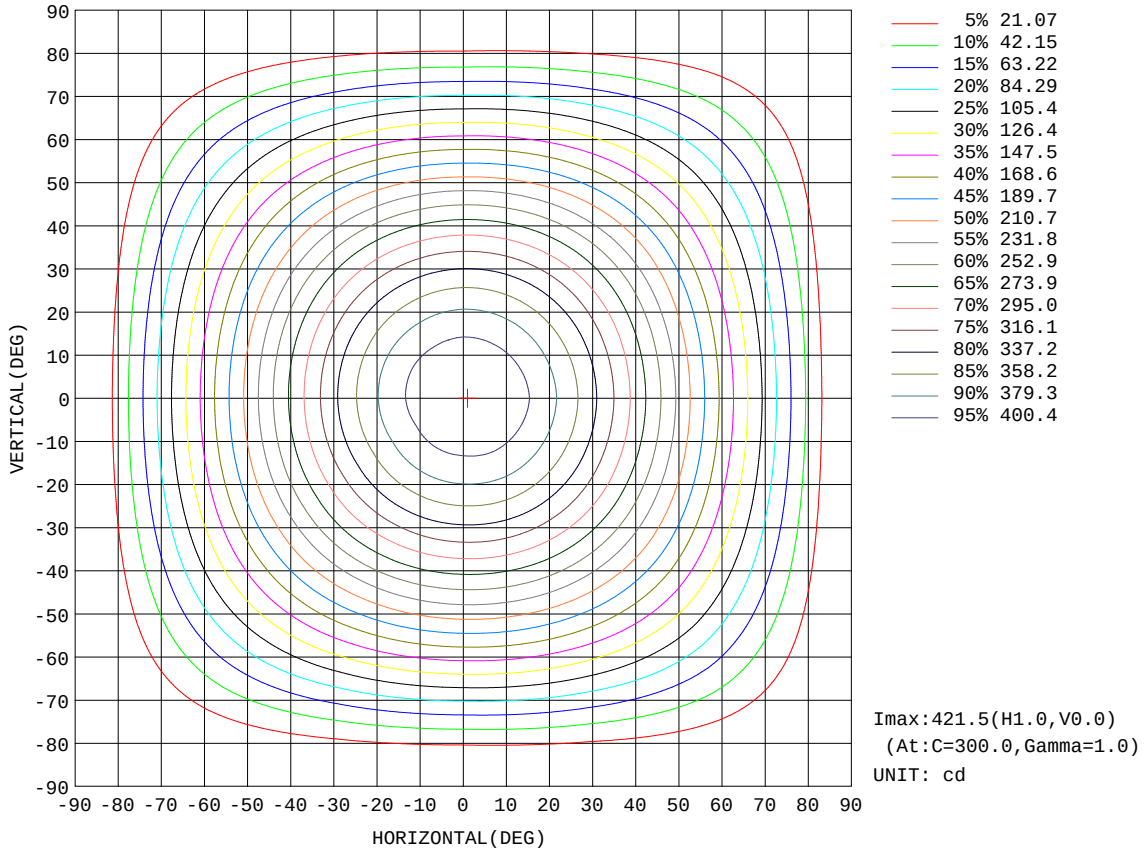
NAME: CL22-3.5-12W-P3	TYPE:12W	WEIGHT:
DIM.:	SPEC.:5700K	SERIAL No.:
MFR.:	SUR.:0.044	PROTECTION ANGLE:



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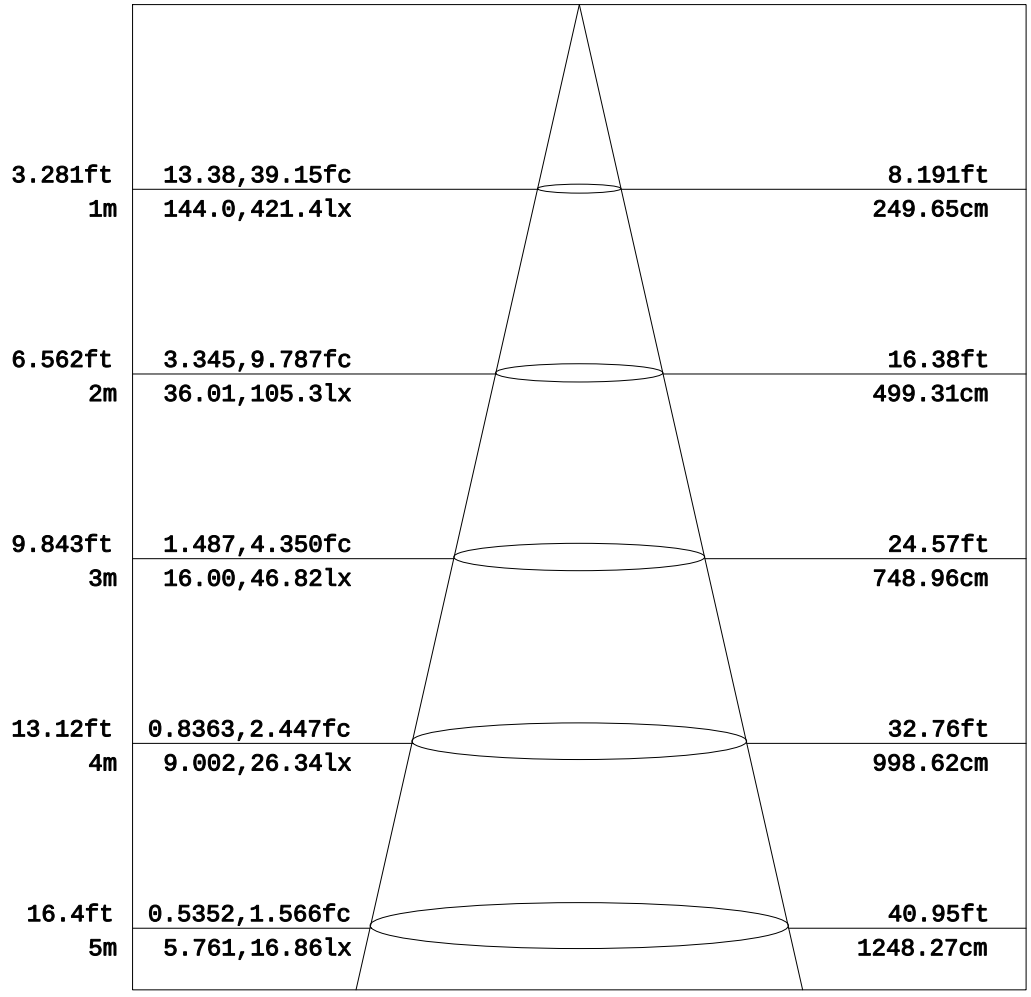
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:10.237m [K=1.0000]
Remarks:

AAI Figure

Test:U:240.3V I:0.0520A P:12.30W PF:0.9720 Lamp Flux:1079.73x1 lm		
NAME: CL22-3.5-12W-P3	TYPE:12W	WEIGHT:
DIM.:	SPEC.:5700K	SERIAL No.:
MFR.:	SUR.:0.044	PROTECTION ANGLE:

Flux out:741.3 lm



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

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ISOLUX DIAGRAM

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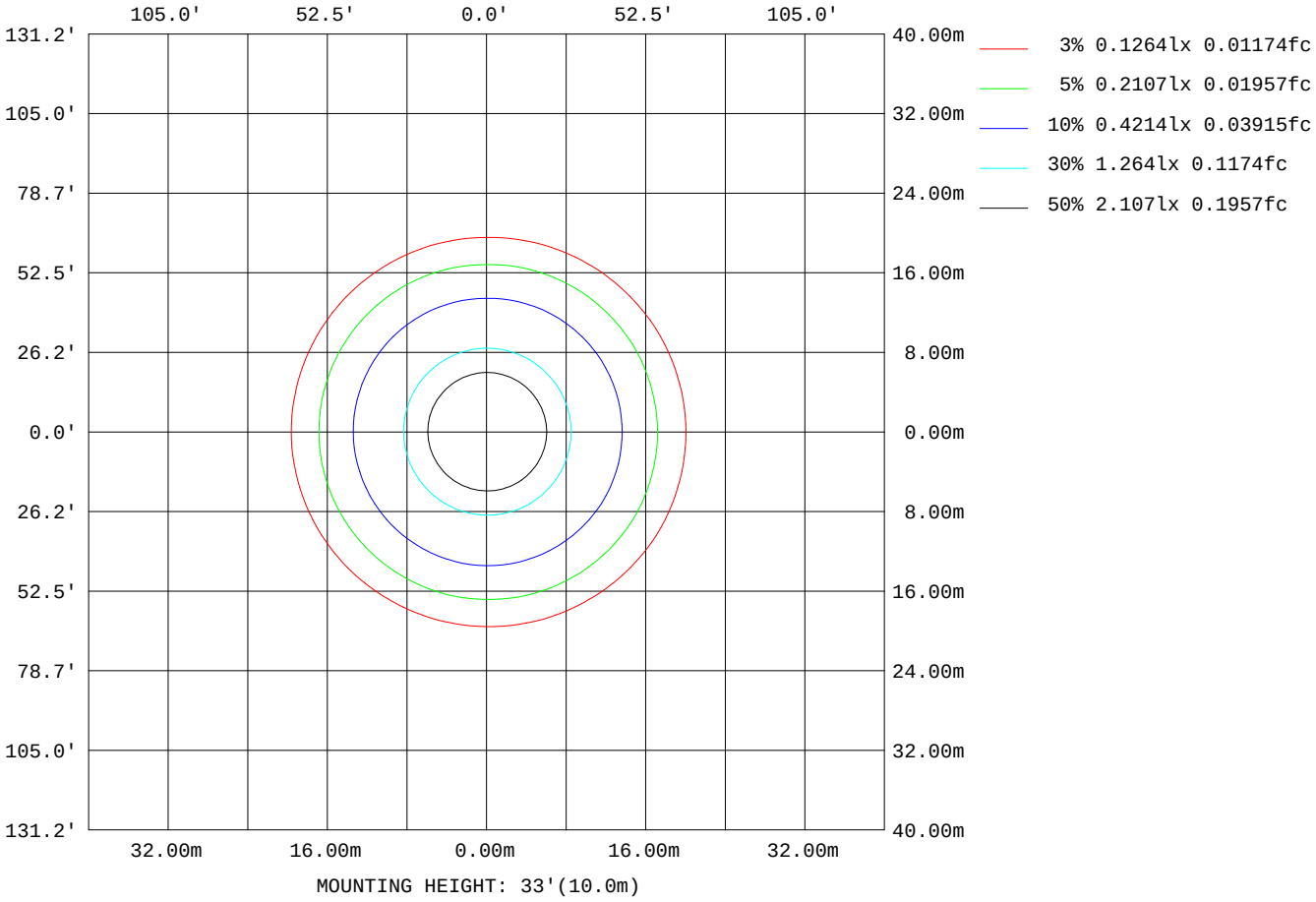
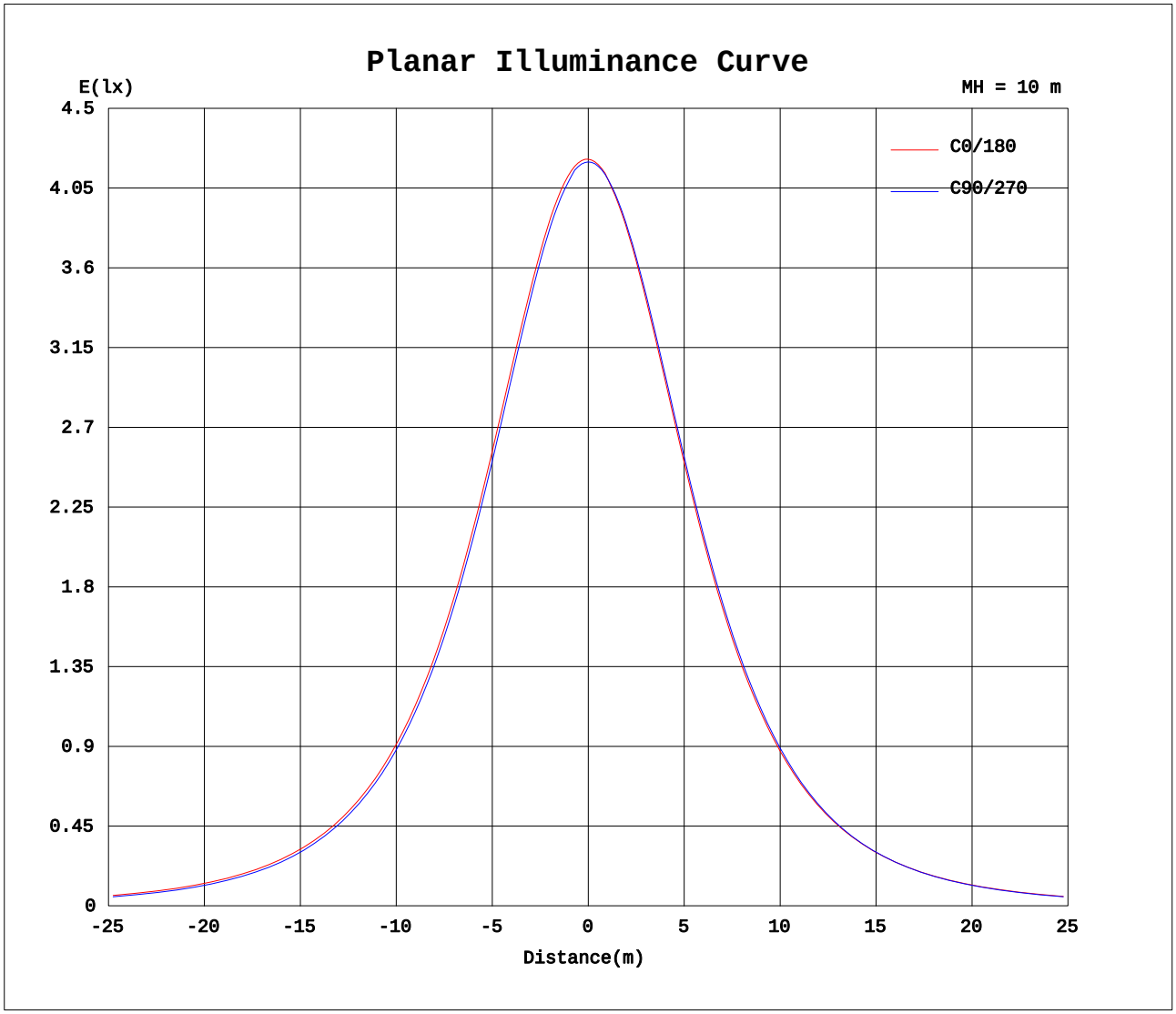
DIM.:	SPEC.:5700K	SERIAL No.:
MFR.:	SUR.:0.044	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2020-12-17

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:10.237m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2020-12-17

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:10.237m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:240.3V I:0.0520A P:12.30W PF:0.9720 Lamp Flux:1079.73x1 lm		
NAME: CL22-3.5-12W-P3	TYPE:12W	WEIGHT:
DIM.:	SPEC.:5700K	SERIAL No.:
MFR.:	SUR.:0.044	PROTECTION ANGLE:

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	30	60	90	120	150	180	210	240	270	300	330
0	420	420	420	420	420	420	420	420	420	420	420	420
5	418	418	418	417	417	416	417	417	418	418	419	419
10	412	411	410	409	408	407	407	409	409	410	411	412
15	400	399	398	396	395	394	394	396	397	399	399	401
20	384	383	382	379	378	377	377	379	380	382	383	385
25	364	363	361	358	357	356	356	358	359	361	363	364
30	341	339	337	334	332	331	332	333	335	338	339	341
35	315	313	311	308	305	304	305	307	309	311	313	315
40	287	285	283	279	277	276	276	278	280	283	285	287
45	257	256	253	249	247	246	246	248	250	252	255	257
50	227	225	222	219	216	215	216	217	219	220	223	227
55	195	194	190	187	184	184	185	185	186	186	191	194
60	164	163	158	153	152	153	153	153	153	153	158	162
65	132	131	124	120	118	121	122	121	120	119	124	130
70	101	98.0	90.5	86.0	85.1	88.3	90.3	88.5	86.5	85.8	90.7	97.1
75	69.3	65.4	57.3	53.1	52.8	56.5	58.3	56.5	54.1	53.1	57.9	64.6
80	38.4	34.0	26.6	23.3	23.4	26.6	28.3	26.1	24.6	23.6	27.4	33.9
85	12.5	7.27	3.36	2.32	2.25	4.51	6.31	4.07	3.01	2.68	4.23	8.10
90	0.52	0.60	0.37	0.36	0.37	0.42	0.40	0.41	0.35	0.32	0.33	0.57
95	0.59	0.60	0.60	0.59	0.60	0.64	0.59	0.52	0.53	0.51	0.58	0.53
100	0.85	0.86	0.87	0.84	0.84	0.92	0.81	0.77	0.74	0.68	0.71	0.68
105	1.14	1.15	1.10	1.13	1.15	1.22	1.09	1.02	1.01	0.94	0.97	0.95
110	1.46	1.46	1.43	1.46	1.53	1.54	1.35	1.33	1.27	1.22	1.23	1.22
115	1.80	1.80	1.77	1.79	1.85	1.87	1.64	1.63	1.56	1.55	1.52	1.55
120	2.14	2.12	2.11	2.14	2.12	2.18	2.03	1.91	1.88	1.91	1.83	1.79
125	2.48	2.44	2.42	2.49	2.43	2.50	2.24	2.20	2.15	2.22	2.11	2.11
130	2.77	2.75	2.70	2.67	2.73	2.78	2.54	2.48	2.45	2.43	2.40	2.41
135	3.03	3.01	3.02	2.89	3.04	3.07	2.83	2.77	2.72	2.72	2.66	2.68
140	3.17	3.32	3.34	3.17	3.34	3.38	3.10	3.03	2.98	3.02	2.93	2.96
145	3.44	3.58	3.66	3.72	3.63	3.63	3.34	3.26	3.21	3.29	3.19	3.20
150	3.84	3.77	3.87	3.98	3.87	3.83	3.55	3.50	3.47	3.52	3.45	3.43
155	4.06	3.96	4.11	4.22	4.11	3.99	3.74	3.70	3.66	3.76	3.67	3.65
160	4.28	4.14	4.31	4.43	4.31	4.20	3.88	3.85	3.81	3.89	3.84	3.80
165	4.41	4.30	4.44	4.57	4.37	4.32	4.07	4.08	4.00	4.05	4.06	3.97
170	4.37	4.48	4.51	4.40	4.45	4.47	4.26	4.22	4.18	4.23	4.22	4.15
175	4.51	4.58	4.59	4.48	4.54	4.56	4.43	4.39	4.36	4.37	4.35	4.35
180	4.61	4.70	4.67	4.59	4.64	4.68	4.61	4.69	4.69	4.58	4.63	4.66

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