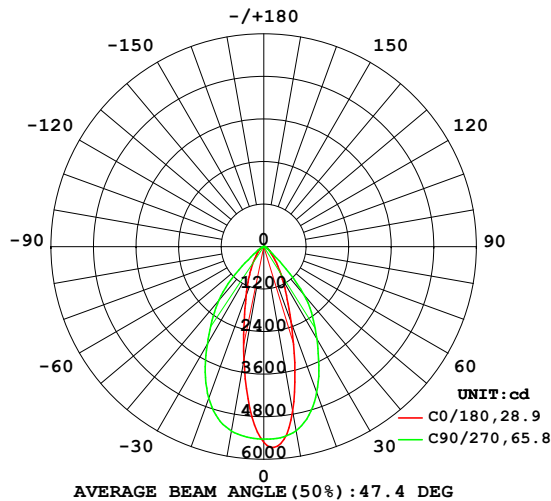


LUMINAIRE PHOTOMETRIC TEST REPORT

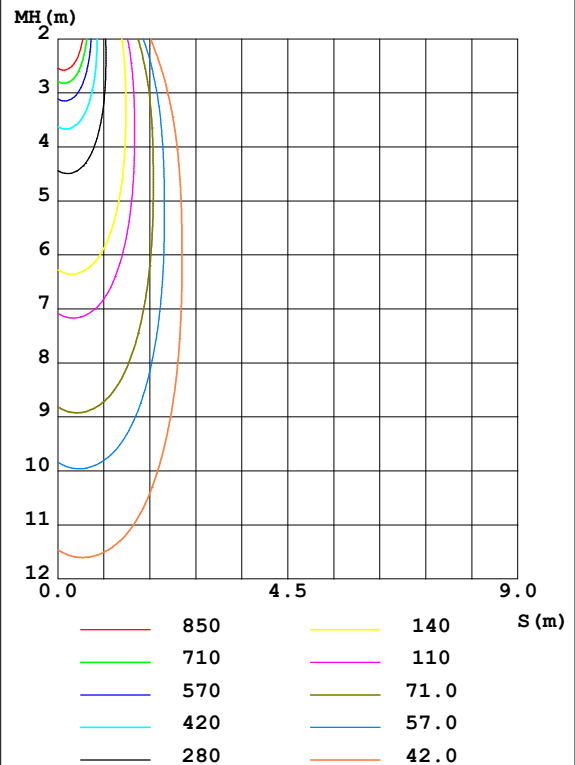
NAME: COVO light	TYPE:4000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 131.65 lm/W			
MODEL		I _{max} (cd)	5670	S/MH (C0/180)	0.58
NOMINAL POWER(W)	30	LOR(%)	150.8	S/MH (C90/270)	0.98
RATED VOLTAGE(V)	120.0	TOTAL FLUX(lm)	4028.4	η UP,DN (C0-180)	0.1,75.6
NOMINAL FLUX(lm)	242.874	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.1,75.0
LAMPS INSIDE	11	η up (%)	0.2	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	120.0	η down (%)	150.6	CIBSE SHR MAX	0.60

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2024-01-13

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.353
Humidity: 65.0%
Test Distance: 7.540m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

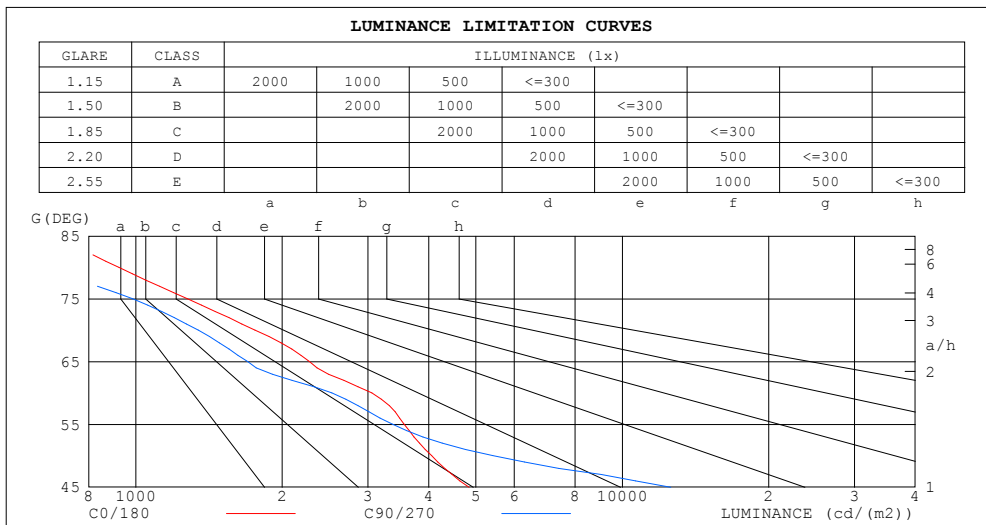
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	4712	5272	5270	4000	3244	3771	5278	5273	0- 10	479.2	479.2	11.9,17.9
20	2244	3276	4374	2109	1463	1990	4549	3436	10- 20	1042	1522	37.8,57
30	1063	1461	3002	1002	720.9	1001	3192	1615	20- 30	1014	2536	63,94.9
40	499.4	634.5	1747	473.5	342.2	494.3	1971	719.0	30- 40	754.0	3290	81.7,123
50	260.6	297.7	348.3	233.4	206.0	249.0	576.9	336.5	40- 50	427.7	3718	92.3,139
60	152.7	145.8	126.4	110.4	96.15	127.5	165.7	165.5	50- 60	185.6	3903	96.9,146
70	60.10	52.36	46.00	36.36	32.10	43.90	61.10	66.49	60- 70	86.07	3989	99,149
80	16.04	12.34	9.418	5.711	5.421	8.473	18.63	17.56	70- 80	29.64	4019	99.8,150
90	1.459	0.3306	0.0339	0.1651	0.0460	0.1091	0.2113	1.320	80- 90	4.684	4024	99.9,151
100	0.0678	0.1405	0.0774	0.1429	0.0558	0.0969	0.0242	0.1090	90-100	0.1354	4024	99.9,151
110	0.1065	0.1671	0.2226	0.1841	0.0969	0.1162	0.0946	0.1186	100-110	0.1132	4024	99.9,151
120	0.1888	0.2568	0.5614	0.3587	0.1793	0.2057	0.3104	0.1815	110-120	0.1959	4024	99.9,151
130	0.3533	0.4847	1.113	0.7950	0.3611	0.4719	0.7126	0.3702	120-130	0.3701	4025	99.9,151
140	0.7042	0.9378	1.601	1.643	0.7539	1.082	1.241	0.7479	130-140	0.6300	4025	99.9,151
150	1.496	1.706	2.198	2.704	1.619	1.990	1.895	1.361	140-150	0.9063	4026	99.9,151
160	2.914	2.628	2.918	3.456	2.859	2.828	2.551	2.106	150-160	1.068	4027	100,151
170	3.889	3.313	3.378	3.622	3.585	3.339	3.243	2.816	160-170	0.8763	4028	100,151
180	3.776	3.594	3.497	3.420	3.776	3.594	3.499	3.417	170-180	0.3328	4028	100,151
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.540m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

NAME: COVO light	TYPE:4000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	694	193
80	924	542
75	1277	986
70	1757	1345
65	2274	1698
60	3054	2528
55	3563	3372
50	4055	5418
45	4846	12585

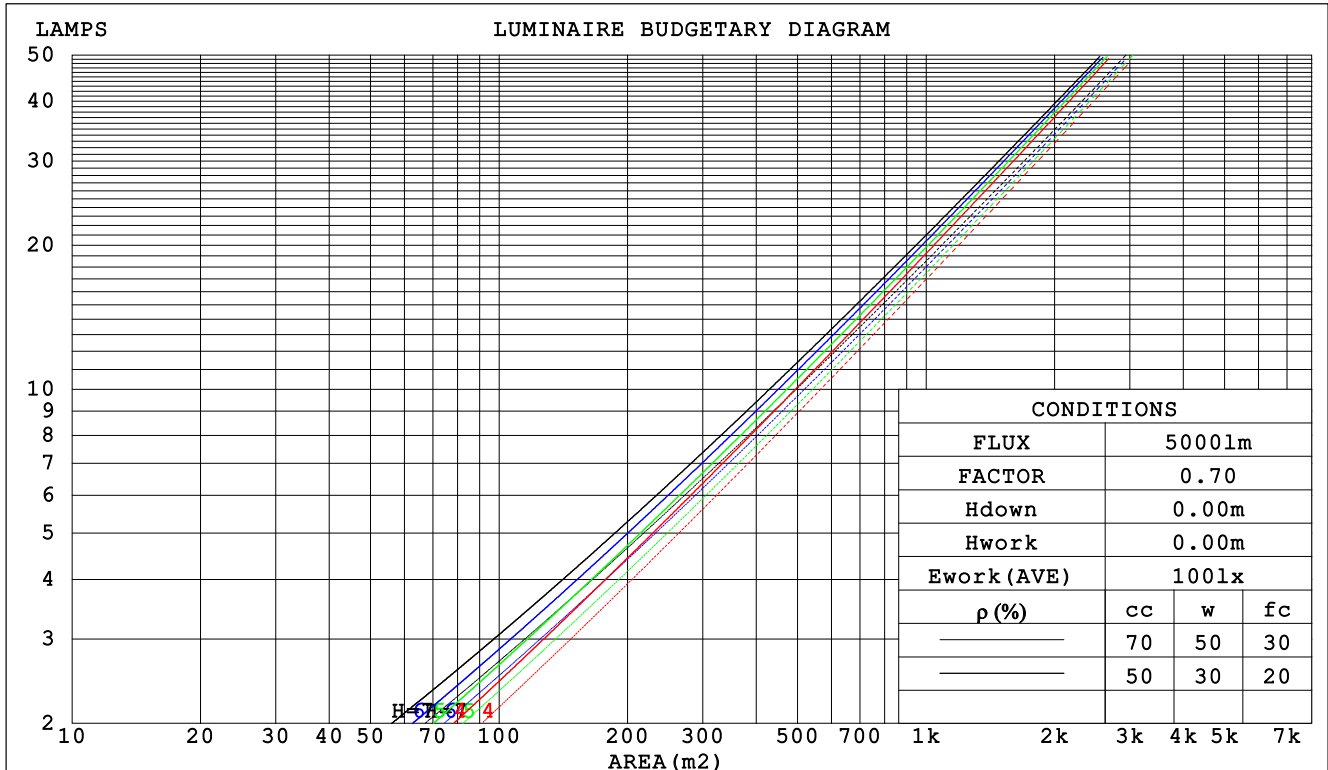
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-13

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.540m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: COVO light	TYPE:4000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.79	1.79	1.79	1.75	1.75	1.75	1.67	1.67	1.67	1.60	1.60	1.60	1.54	1.54	1.54	1.51
1.0	1.66	1.62	1.58	1.62	1.59	1.55	1.56	1.53	1.51	1.51	1.48	1.46	1.45	1.43	1.42	1.39
2.0	1.53	1.46	1.41	1.50	1.44	1.39	1.45	1.40	1.36	1.41	1.37	1.33	1.36	1.33	1.30	1.27
3.0	1.41	1.33	1.27	1.39	1.32	1.26	1.35	1.29	1.24	1.31	1.26	1.22	1.28	1.23	1.20	1.17
4.0	1.31	1.22	1.15	1.29	1.21	1.15	1.26	1.19	1.13	1.23	1.17	1.12	1.20	1.15	1.10	1.08
5.0	1.22	1.13	1.06	1.21	1.12	1.05	1.18	1.10	1.04	1.15	1.09	1.03	1.13	1.07	1.02	.00
6.0	1.14	1.04	.98	1.13	1.04	.97	1.11	1.03	.97	1.08	1.01	.96	1.06	1.00	.95	.93
7.0	1.07	.97	.91	1.06	.97	.90	1.04	.96	.90	1.02	.95	.89	1.00	.94	.89	.87
8.0	1.01	.91	.85	.00	.91	.84	.98	.90	.84	.96	.89	.84	.95	.88	.83	.81
9.0	.95	.86	.79	.94	.85	.79	.93	.84	.79	.91	.84	.78	.90	.83	.78	.76
10.0	.90	.81	.75	.89	.80	.74	.88	.80	.74	.87	.79	.74	.85	.79	.74	.72



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.540m [K=1.0000]
Remarks:

WEC AND CCEC

NAME: COVO light	TYPE:4000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)										
0.0																	
1.0	.293	.167	.053	.283	.161	.051	.263	.151	.048	.246	.142	.046	.230	.133	.043		
2.0	.282	.155	.047	.273	.151	.046	.257	.143	.044	.242	.136	.042	.228	.129	.041		
3.0	.268	.143	.043	.261	.140	.042	.247	.134	.041	.234	.128	.039	.222	.123	.038		
4.0	.254	.132	.039	.248	.130	.038	.236	.125	.037	.224	.120	.036	.214	.116	.035		
5.0	.241	.123	.036	.235	.121	.035	.225	.117	.034	.215	.113	.034	.206	.110	.033		
6.0	.229	.115	.033	.224	.113	.033	.214	.110	.032	.206	.107	.031	.197	.104	.031		
7.0	.217	.107	.030	.213	.106	.030	.205	.103	.030	.197	.101	.029	.189	.098	.029		
8.0	.207	.101	.028	.203	.100	.028	.195	.098	.028	.188	.095	.028	.182	.093	.027		
9.0	.197	.095	.027	.194	.094	.026	.187	.092	.026	.181	.091	.026	.175	.089	.026		
10.0	.188	.090	.025	.185	.089	.025	.179	.088	.025	.173	.086	.024	.168	.084	.024		

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)										
0.0	.289	.289	.289	.247	.247	.247	.168	.168	.168	.097	.097	.097	.031	.031	.031		
1.0	.261	.238	.218	.223	.205	.187	.153	.141	.130	.088	.081	.075	.028	.026	.024		
2.0	.240	.201	.168	.206	.173	.145	.141	.120	.101	.081	.070	.059	.026	.023	.019		
3.0	.223	.173	.133	.191	.149	.115	.131	.104	.081	.076	.060	.048	.024	.020	.016		
4.0	.208	.151	.107	.178	.130	.093	.123	.091	.066	.071	.053	.039	.023	.017	.013		
5.0	.195	.134	.088	.168	.116	.077	.116	.081	.054	.067	.047	.032	.022	.015	.011		
6.0	.184	.120	.074	.158	.104	.064	.109	.073	.045	.063	.043	.027	.020	.014	.009		
7.0	.174	.109	.063	.150	.094	.055	.104	.066	.039	.060	.039	.023	.019	.013	.008		
8.0	.166	.099	.054	.143	.086	.047	.099	.061	.033	.057	.036	.020	.019	.012	.007		
9.0	.158	.092	.047	.136	.080	.041	.094	.056	.029	.055	.033	.017	.018	.011	.006		
10.0	.150	.085	.042	.130	.074	.036	.090	.052	.026	.052	.031	.015	.017	.010	.005		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-13

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.540m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

NAME: COVO light					TYPE:4000K					WEIGHT:				
SPEC.:					DIM.:					SERIAL No.:				
MFR.: EVERFINE					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					14.1	15.1	14.3	15.3	15.4	17.2	18.2	17.4	18.4	18.5
3H					14.4	15.4	14.7	15.6	15.8	17.1	18.1	17.4	18.3	18.5
4H					14.5	15.4	14.8	15.6	15.8	17.1	18.0	17.4	18.2	18.4
6H					14.5	15.3	14.8	15.6	15.8	17.0	17.9	17.3	18.1	18.4
8H					14.5	15.3	14.8	15.5	15.8	17.0	17.8	17.3	18.0	18.3
12H					14.4	15.2	14.8	15.5	15.8	16.9	17.7	17.3	18.0	18.3
4H 2H					14.2	15.1	14.5	15.3	15.5	17.1	18.0	17.3	18.2	18.4
3H					14.6	15.4	15.0	15.7	16.0	17.1	17.8	17.4	18.1	18.4
4H					14.7	15.4	15.1	15.8	16.1	17.1	17.8	17.4	18.1	18.4
6H					14.8	15.4	15.2	15.7	16.1	17.0	17.6	17.4	17.9	18.3
8H					14.8	15.3	15.2	15.7	16.1	16.9	17.5	17.3	17.9	18.3
12H					14.8	15.3	15.2	15.7	16.0	16.9	17.4	17.3	17.8	18.2
8H 4H					14.7	15.3	15.1	15.6	16.0	17.0	17.5	17.4	17.9	18.3
6H					14.8	15.2	15.2	15.6	16.0	16.9	17.4	17.3	17.8	18.2
8H					14.8	15.2	15.2	15.6	16.0	16.9	17.3	17.3	17.7	18.1
12H					14.8	15.1	15.2	15.5	16.0	16.8	17.2	17.3	17.6	18.1
12H 4H					14.6	15.2	15.1	15.5	15.9	16.9	17.4	17.3	17.8	18.2
6H					14.7	15.1	15.2	15.5	16.0	16.9	17.3	17.3	17.7	18.1
8H					14.7	15.1	15.2	15.5	16.0	16.8	17.2	17.3	17.6	18.1
Variations with the observer position at spacings:														
S = 1.0H					+ 0.9 / - 1.3					+ 3.5 / - 4.8				
1.5H					+ 1.2 / - 0.9					+ 5.1 / - 4.0				
2.0H					+ 1.3 / - 1.5					+ 5.8 / - 3.1				

CIE Pub.117 Corrected 2672 lm Total Lamp Luminous Flux. (8log(F/F0) = 3.4)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-01-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.353
 Humidity:65.0%
 Test Distance:7.540m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

NAME: COVO light	TYPE:4000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

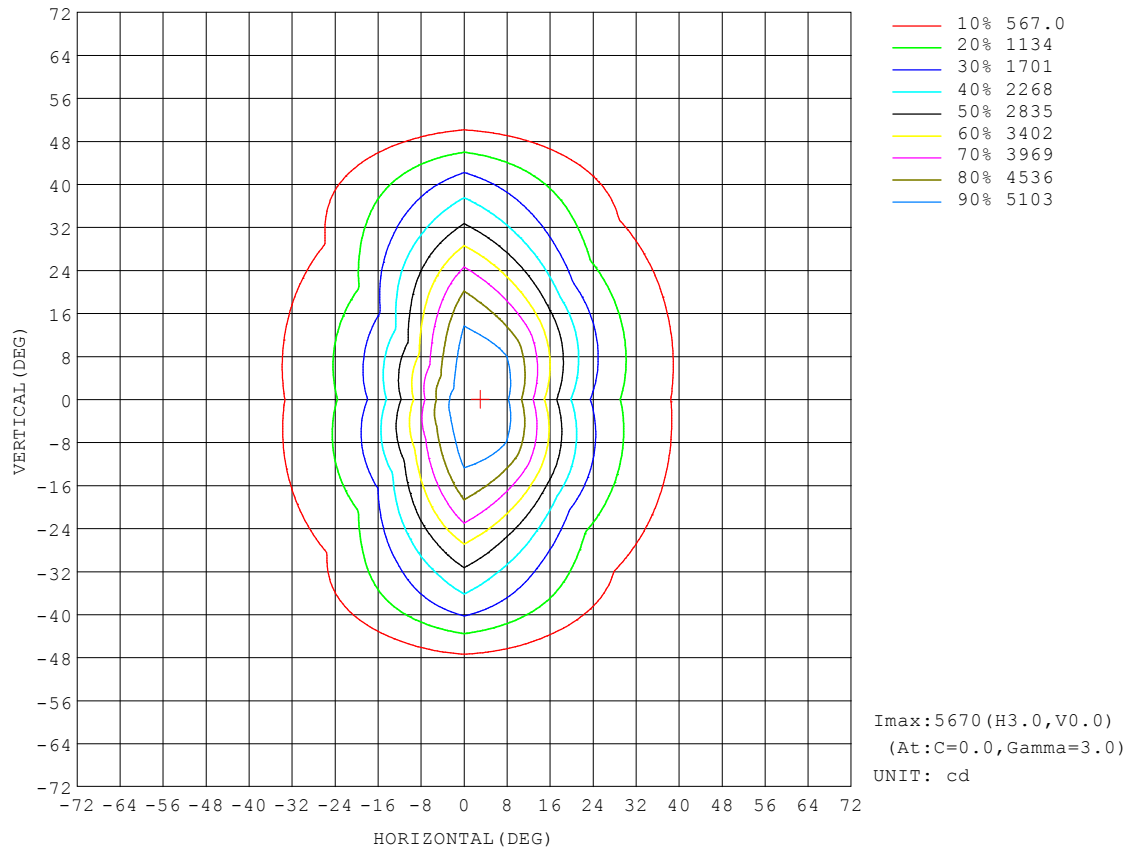
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) k(RI) x RCR = 5									
k = 0.60	121	109	102	120	109	102	118	108	102	95
0.80	133	122	116	132	122	115	130	121	115	108
1.00	142	132	125	141	131	125	138	131	124	117
1.25	149	140	134	148	139	133	144	137	132	124
1.50	154	146	140	152	144	139	149	142	137	129
2.00	160	152	147	158	151	145	153	148	143	135
2.50	163	156	151	160	154	149	156	151	147	137
3.00	166	160	155	163	158	153	158	154	150	140
4.00	169	164	160	166	162	158	161	157	154	143
5.00	172	167	164	168	165	162	162	159	157	145
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:
Test Date:2024-01-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.540m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: COVO light	TYPE:4000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

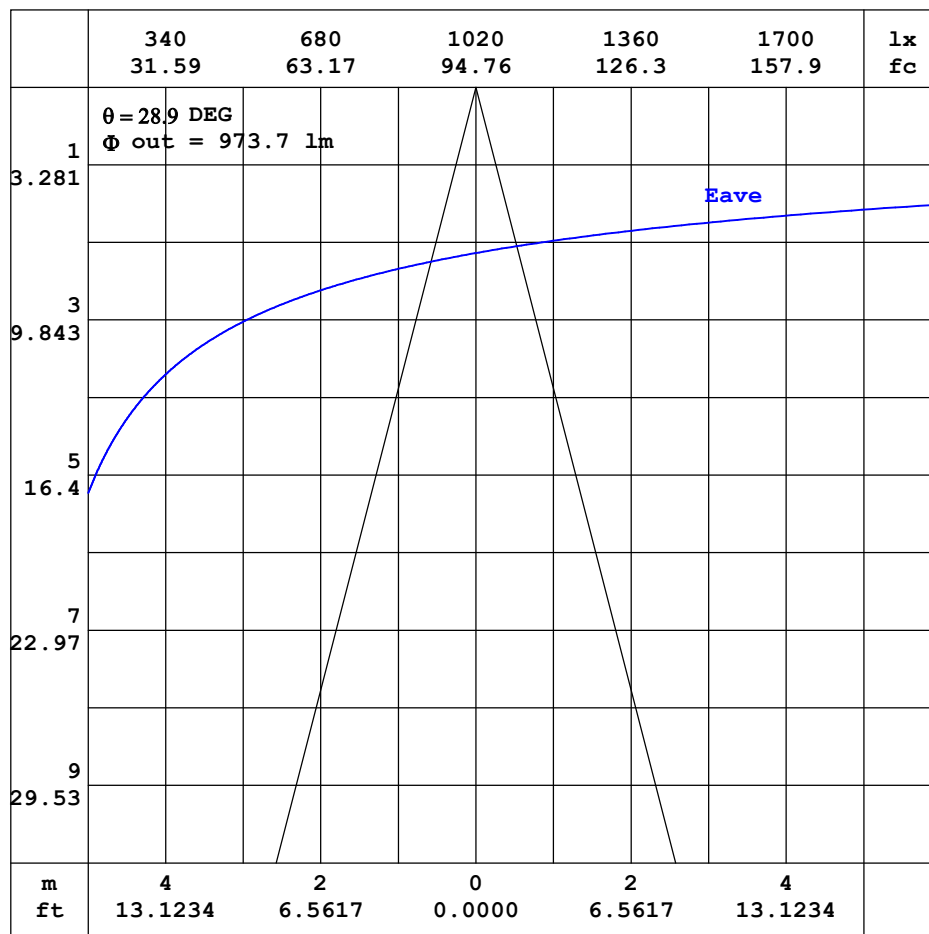


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.540m [K=1.0000]
Remarks:

AAI CURVES

NAME: COVO light	TYPE:4000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



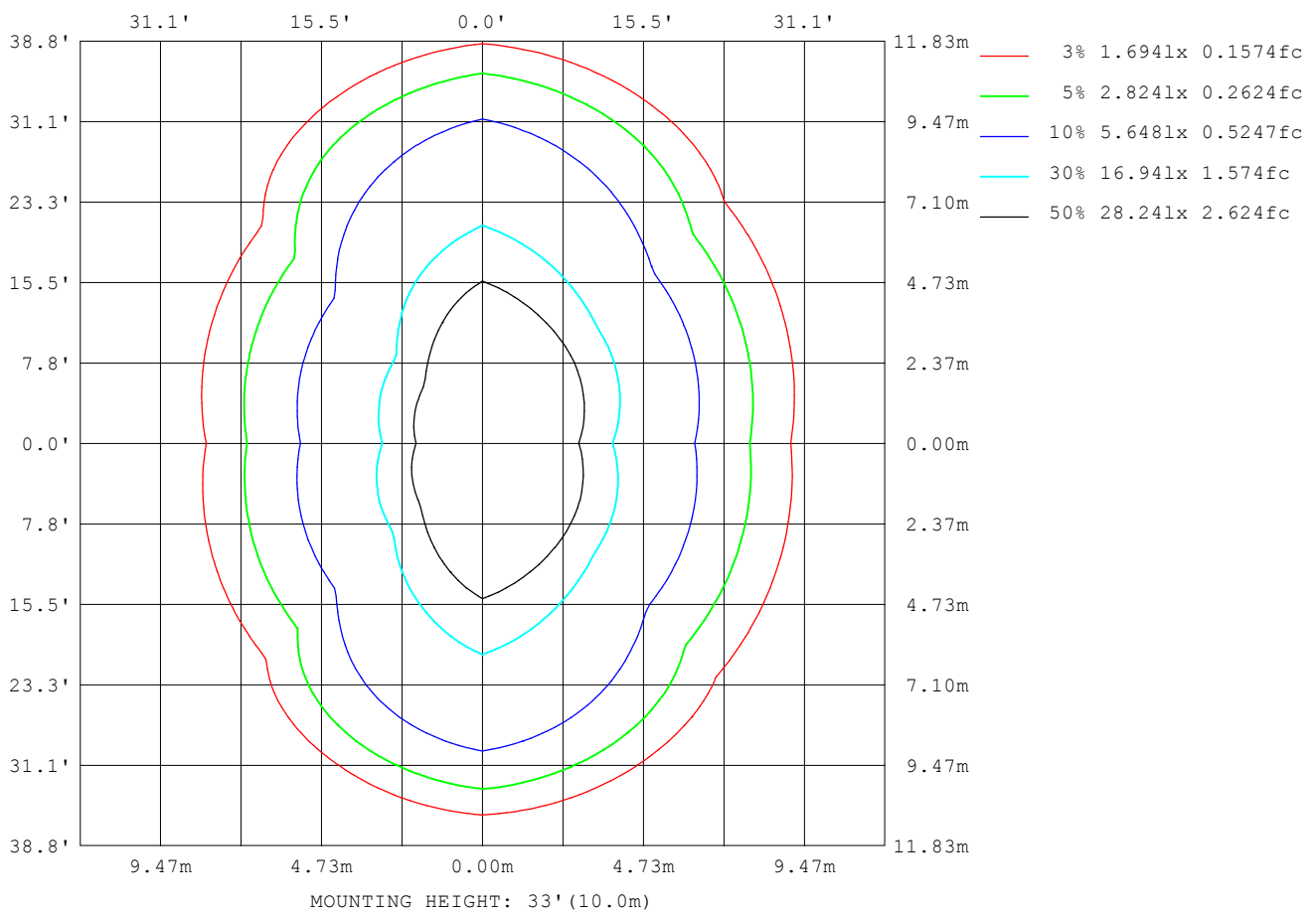
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2024-01-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.353
Humidity: 65.0%
Test Distance: 7.540m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

NAME: COVO light	TYPE:4000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-13

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.540m [K=1.0000]
Remarks:

LED Avg.L Report

NAME: COVO light	TYPE:4000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

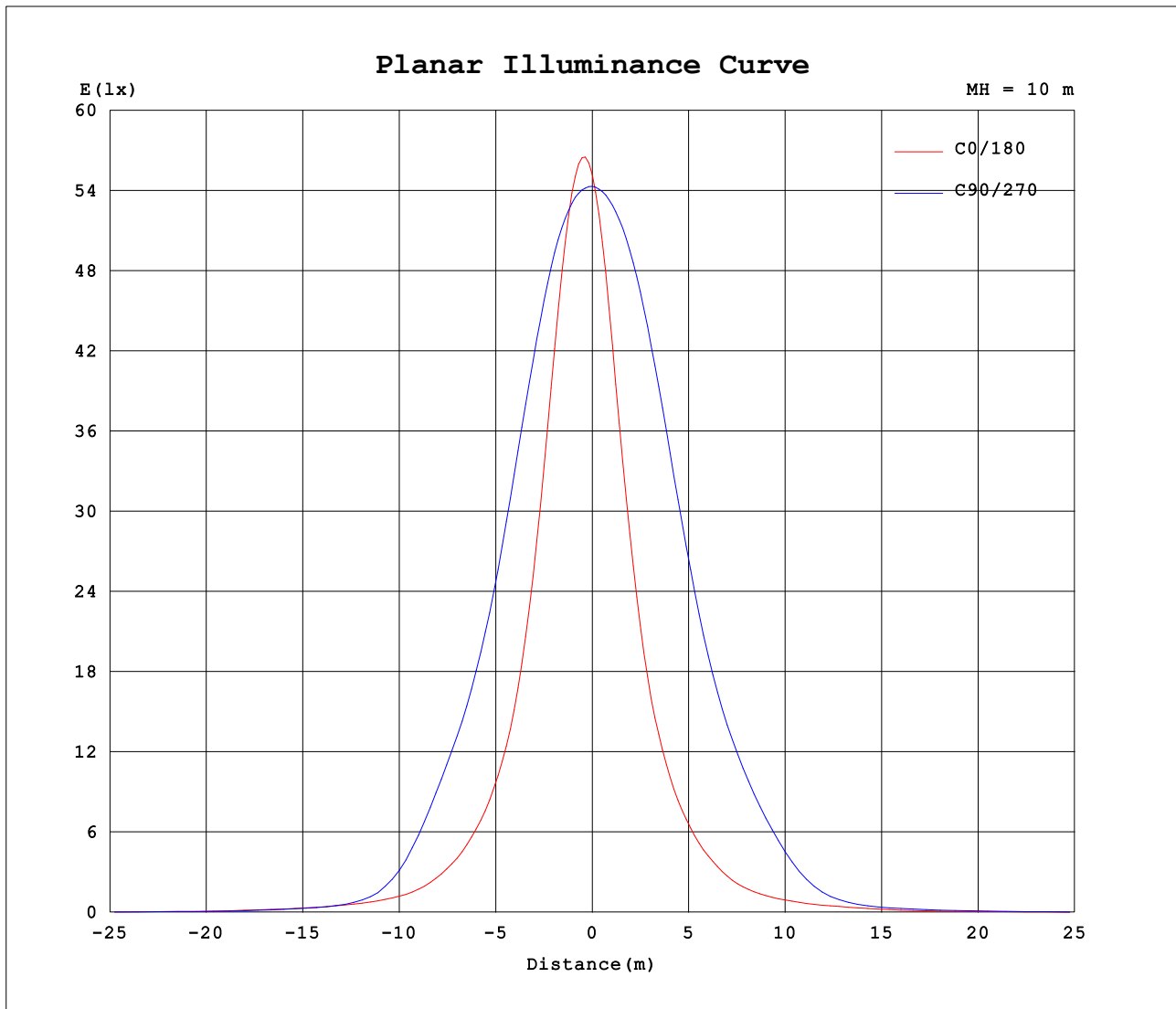
AvgL	cd/m2
L_0~180 (65) av	1834
L_0~180 (75) av	934
L_0~180 (85) av	410
L_90~270 (65) av	2025
L_90~270 (75) av	1208
L_90~270 (85) av	389
L_45 (65) av	2048
L_45 (75) av	1006
L_45 (85) av	383

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-13

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.540m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2024-01-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.353
Humidity: 65.0%
Test Distance: 7.540m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: COVO light	TYPE:4000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315										
0	5518	5428	5431	5506	5518	5428	5431	5506										
5	5571	5641	5412	4911	4573	4735	5392	5642										
10	4712	5272	5270	4000	3244	3771	5278	5273										
15	3385	4398	4923	3001	2159	2801	5013	4468										
20	2244	3276	4374	2109	1463	1990	4549	3436										
25	1518	2228	3685	1456	1025	1414	3912	2416										
30	1063	1461	3002	1002	721	1001	3192	1615										
35	739	953	2402	686	494	705	2552	1077										
40	499	635	1747	473	342	494	1971	719										
45	343	431	890	331	261	347	1286	488										
50	261	298	348	233	206	249	577	337										
55	204	209	193	166	153	183	262	235										
60	153	146	126	110	96.2	128	166	166										
65	96.1	93.1	71.8	65.0	58.9	76.7	99.4	111										
70	60.1	52.4	46.0	36.4	32.1	43.9	61.1	66.5										
75	33.1	28.2	25.5	17.1	15.3	21.8	37.0	37.0										
80	16.0	12.3	9.42	5.71	5.42	8.47	18.6	17.6										
85	6.05	3.83	1.68	1.13	1.10	2.16	5.10	6.24										
90	1.46	0.33	0.03	0.17	0.05	0.11	0.21	1.32										
95	0.06	0.15	0.05	0.14	0.05	0.10	0.03	0.12										
100	0.07	0.14	0.08	0.14	0.06	0.10	0.02	0.11										
105	0.08	0.14	0.13	0.15	0.07	0.09	0.05	0.11										
110	0.11	0.17	0.22	0.18	0.10	0.12	0.09	0.12										
115	0.14	0.20	0.37	0.25	0.13	0.15	0.18	0.12										
120	0.19	0.26	0.56	0.36	0.18	0.21	0.31	0.18										
125	0.25	0.35	0.82	0.53	0.26	0.31	0.49	0.25										
130	0.35	0.48	1.11	0.80	0.36	0.47	0.71	0.37										
135	0.50	0.67	1.42	1.17	0.51	0.73	0.96	0.52										
140	0.70	0.94	1.60	1.64	0.75	1.08	1.24	0.75										
145	1.02	1.28	1.87	2.18	1.12	1.54	1.56	1.05										
150	1.50	1.71	2.20	2.70	1.62	1.99	1.89	1.36										
155	2.17	2.18	2.61	3.15	2.24	2.44	2.20	1.73										
160	2.91	2.63	2.92	3.46	2.86	2.83	2.55	2.11										
165	3.53	3.02	3.17	3.61	3.30	3.12	2.94	2.47										
170	3.89	3.31	3.38	3.62	3.58	3.34	3.24	2.82										
175	3.93	3.50	3.49	3.56	3.65	3.51	3.42	3.14										
180	3.78	3.59	3.50	3.42	3.78	3.59	3.50	3.42										

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-13

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.540m [K=1.0000]
Remarks: