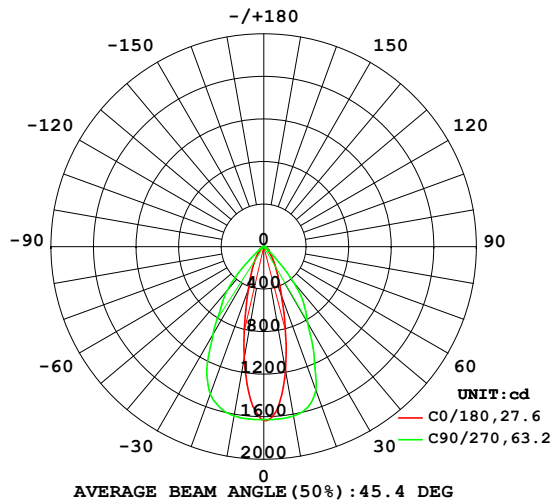


LUMINAIRE PHOTOMETRIC TEST REPORT

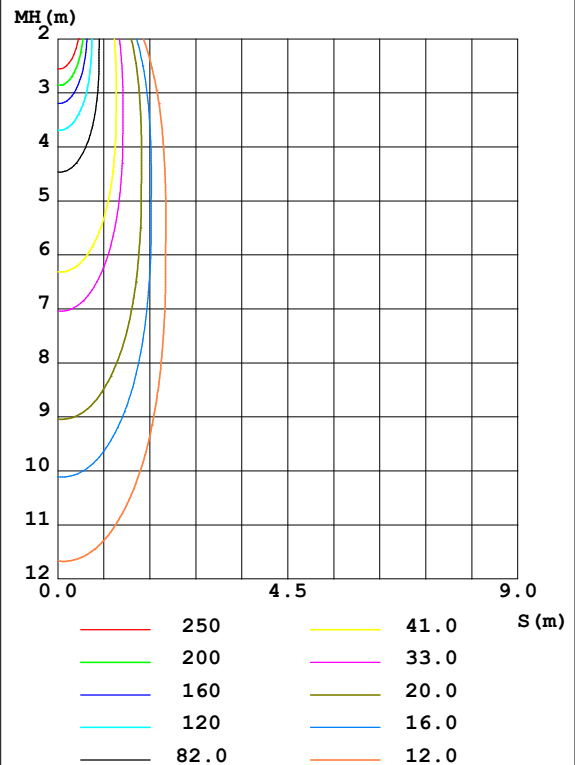
NAME: COVO light 1ft	TYPE:4000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 120.41 lm/W			
MODEL		I _{max} (cd)	1635	S/MH (C0/180)	0.48
NOMINAL POWER(W)	7.5	LOR(%)	156.6	S/MH (C90/270)	0.97
RATED VOLTAGE(V)	120.0	TOTAL FLUX(lm)	1084.9	η UP,DN (C0-180)	0.1,77.0
NOMINAL FLUX(lm)	62.9847	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.1,79.4
LAMPS INSIDE	11	η up (%)	0.2	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	120.0	η down (%)	156.4	CIBSE SHR MAX	0.55

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: 2024-01-16

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:

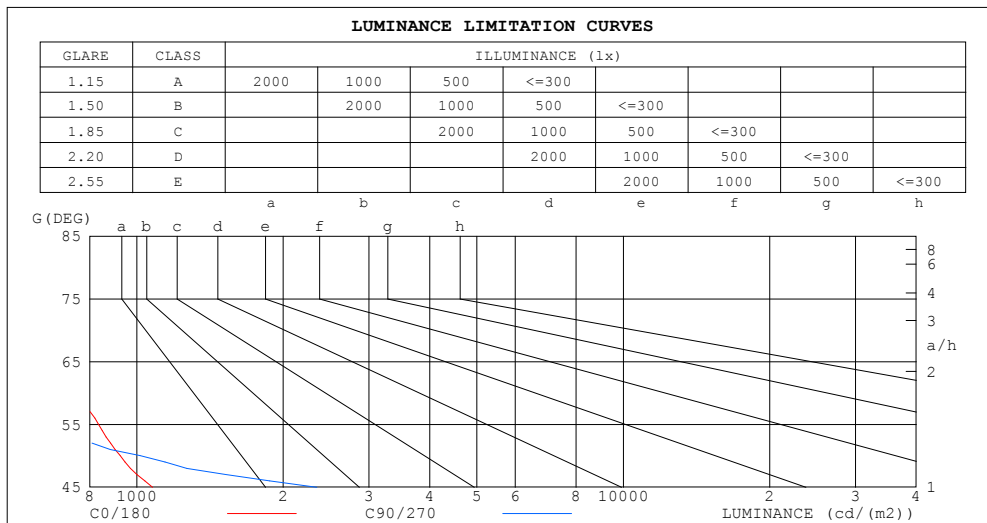
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1182	1408	1616	1313	1060	1244	1615	1390	0- 10	141.7	141.7	13.1,20.5
20	486.2	796.0	1434	714.9	427.7	645.9	1473	803.4	10- 20	303.9	445.6	41.1,64.3
30	226.2	325.4	826.8	290.4	192.9	288.9	960.5	350.1	20- 30	283.5	729.1	67.2,105
40	105.8	127.3	439.5	116.2	88.04	127.6	532.8	142.9	30- 40	193.2	922.3	85,133
50	59.39	58.82	65.24	54.27	53.09	60.81	98.92	67.52	40- 50	95.56	1018	93.8,147
60	34.60	28.54	26.79	26.46	26.31	30.83	33.73	33.10	50- 60	39.84	1058	97.5,153
70	12.72	10.23	9.277	8.411	9.163	11.05	13.05	12.48	60- 70	19.10	1077	99.3,155
80	2.772	1.956	1.422	1.477	1.567	2.196	3.423	2.809	70- 80	6.161	1083	99.8,156
90	0.0159	0.1017	0	0.0993	0	0.0971	0	0.1725	80- 90	0.7716	1084	99.9,156
100	0	0.0630	0	0.0605	0	0.0582	0	0.0656	90-100	0.0487	1084	99.9,156
110	0	0.0363	0	0.0314	0	0.0096	0	0.0339	100-110	0.0204	1084	99.9,156
120	0.0145	0.0436	0.0991	0.0460	0.0000	0.0170	0.0171	0.0266	110-120	0.0193	1084	99.9,156
130	0.0628	0.1115	0.2807	0.1334	0.0388	0.0653	0.1237	0.0629	120-130	0.0580	1084	99.9,156
140	0.1717	0.2763	0.5325	0.3830	0.1189	0.2105	0.2982	0.1912	130-140	0.1393	1084	99.9,156
150	0.4476	0.5452	0.6997	0.7511	0.3297	0.5011	0.4967	0.3897	140-150	0.2411	1084	99.9,156
160	0.8956	0.8309	0.8813	1.054	0.6857	0.7868	0.7219	0.6150	150-160	0.3040	1085	100,157
170	1.114	1.010	1.034	1.165	0.9520	0.9807	0.9375	0.8377	160-170	0.2565	1085	100,157
180	1.049	1.075	1.087	1.066	1.053	1.078	1.087	1.061	170-180	0.0989	1085	100,157
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-16

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 1ft	TYPE:4000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	85	12
80	160	82
75	253	182
70	372	271
65	520	351
60	692	536
55	834	675
50	924	1015
45	1077	2344

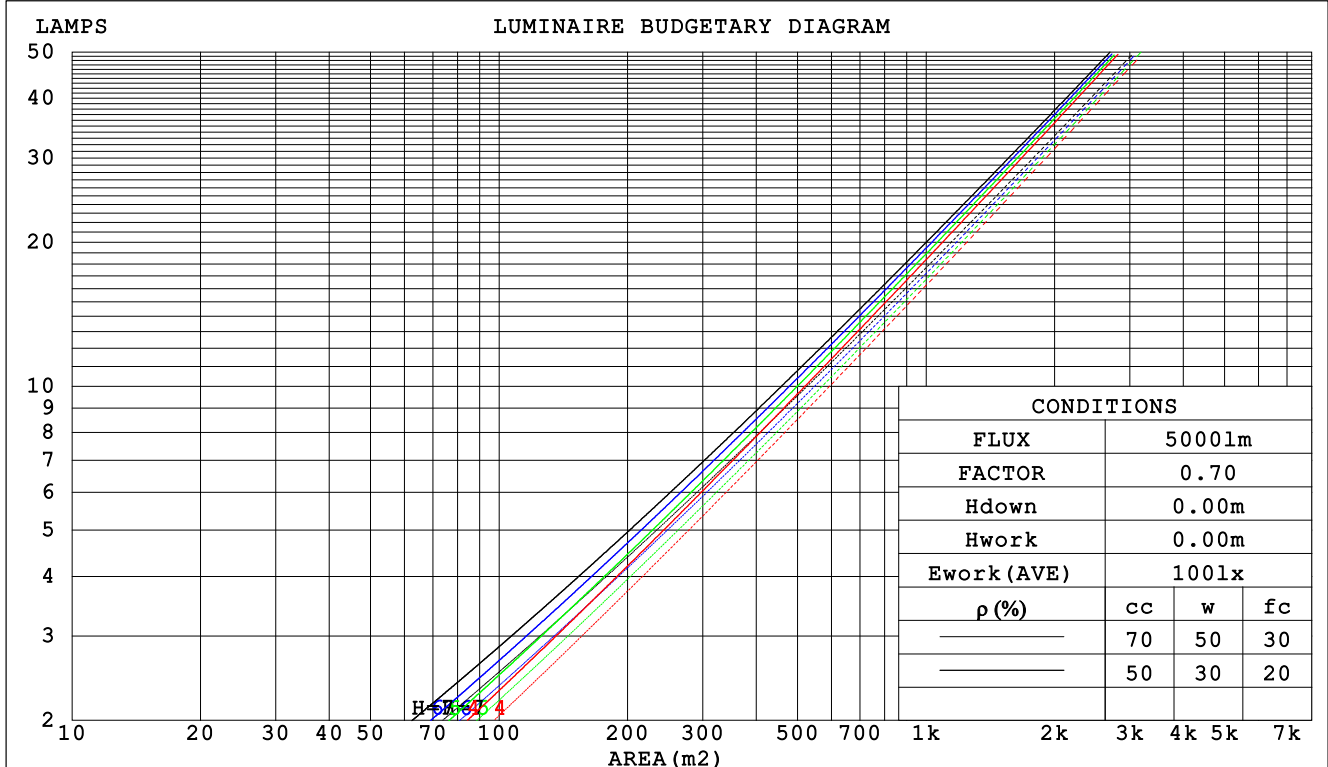
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-16

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 1ft	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	1.86	1.86	1.86	1.82	1.82	1.82	1.74	1.74	1.74	1.66	1.66	1.66	1.60	1.60	1.60	1.56
1.0	1.73	1.69	1.65	1.69	1.66	1.62	1.63	1.60	1.57	1.57	1.55	1.53	1.52	1.50	1.48	1.45
2.0	1.60	1.53	1.48	1.57	1.51	1.46	1.52	1.47	1.43	1.47	1.43	1.40	1.43	1.40	1.37	1.34
3.0	1.48	1.40	1.34	1.46	1.39	1.33	1.42	1.36	1.31	1.38	1.33	1.29	1.35	1.30	1.27	1.24
4.0	1.38	1.29	1.22	1.37	1.28	1.22	1.33	1.26	1.20	1.30	1.24	1.19	1.27	1.22	1.17	1.15
5.0	1.29	1.20	1.13	1.28	1.19	1.12	1.25	1.17	1.11	1.22	1.16	1.10	1.20	1.14	1.09	1.07
6.0	1.21	1.12	1.05	1.20	1.11	1.04	1.18	1.10	1.04	1.15	1.08	1.03	1.13	1.07	1.02	.00
7.0	1.14	1.04	.98	1.13	1.04	.97	1.11	1.03	.97	1.09	1.02	.96	1.07	1.01	.96	.94
8.0	1.08	.98	.92	1.07	.98	.91	1.05	.97	.91	1.03	.96	.91	1.02	.95	.90	.88
9.0	1.02	.92	.86	1.01	.92	.86	.00	.91	.86	.98	.91	.85	.97	.90	.85	.83
10.0	.97	.87	.81	.96	.87	.81	.95	.86	.81	.93	.86	.81	.92	.85	.80	.78



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-16

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 1ft	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	.282	.161	.051	.262	.150	.048	.244	.141	.045	.227	.132	.042		
2.0	.281	.154	.047	.272	.150	.046	.255	.142	.044	.240	.135	.042	.226	.128	.040		
3.0	.267	.142	.043	.260	.139	.042	.245	.133	.040	.232	.127	.039	.219	.122	.038		
4.0	.254	.132	.039	.247	.129	.038	.234	.124	.037	.223	.120	.036	.212	.115	.035		
5.0	.241	.123	.036	.235	.121	.035	.224	.117	.034	.214	.113	.034	.204	.109	.033		
6.0	.228	.115	.033	.223	.113	.032	.214	.110	.032	.205	.106	.031	.196	.103	.031		
7.0	.217	.107	.030	.213	.106	.030	.204	.103	.030	.196	.101	.029	.189	.098	.029		
8.0	.207	.101	.028	.203	.100	.028	.195	.098	.028	.188	.095	.028	.182	.093	.027		
9.0	.198	.096	.027	.194	.095	.027	.187	.093	.026	.181	.091	.026	.175	.089	.026		
10.0	.189	.091	.025	.186	.090	.025	.180	.088	.025	.174	.086	.025	.168	.085	.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	.300	.300	.300	.256	.256	.256	.175	.175	.175	.100	.100	.100	.032	.032	.032	
1.0	.270	.248	.227	.231	.212	.195	.158	.146	.135	.091	.085	.079	.029	.027	.025	
2.0	.248	.209	.176	.212	.180	.152	.145	.124	.106	.084	.072	.062	.027	.023	.020	
3.0	.229	.179	.140	.196	.155	.121	.135	.107	.085	.078	.063	.050	.025	.020	.016	
4.0	.213	.156	.113	.183	.135	.098	.126	.094	.069	.073	.055	.041	.023	.018	.013	
5.0	.200	.138	.093	.172	.120	.081	.118	.084	.057	.068	.049	.034	.022	.016	.011	
6.0	.188	.124	.078	.162	.107	.068	.112	.075	.048	.065	.044	.029	.021	.014	.009	
7.0	.178	.112	.066	.153	.097	.058	.106	.068	.041	.061	.040	.024	.020	.013	.008	
8.0	.169	.102	.057	.145	.089	.050	.101	.062	.035	.058	.037	.021	.019	.012	.007	
9.0	.161	.094	.050	.138	.082	.043	.096	.058	.031	.056	.034	.018	.018	.011	.006	
10.0	.153	.087	.044	.132	.076	.038	.092	.053	.027	.053	.032	.016	.017	.010	.005	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-01-16

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 1ft					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	7.9	8.9	8.1	9.0	9.2	11.6	12.6	11.8	12.8	12.9				
3H	8.2	9.1	8.5	9.3	9.5	11.5	12.5	11.8	12.7	12.9				
4H	8.3	9.1	8.6	9.4	9.6	11.5	12.4	11.8	12.6	12.8				
6H	8.3	9.1	8.6	9.3	9.6	11.4	12.2	11.7	12.5	12.7				
8H	8.2	9.0	8.5	9.3	9.5	11.4	12.1	11.7	12.4	12.7				
12H	8.2	8.9	8.5	9.2	9.5	11.3	12.1	11.6	12.3	12.6				
4H 2H	7.9	8.8	8.2	9.0	9.3	11.5	12.3	11.7	12.6	12.8				
3H	8.4	9.1	8.7	9.4	9.7	11.4	12.2	11.8	12.5	12.7				
4H	8.5	9.1	8.8	9.4	9.8	11.4	12.1	11.7	12.4	12.7				
6H	8.5	9.1	8.9	9.4	9.8	11.3	11.9	11.7	12.2	12.6				
8H	8.4	9.0	8.8	9.3	9.7	11.3	11.8	11.7	12.2	12.5				
12H	8.4	8.9	8.8	9.3	9.7	11.2	11.7	11.6	12.1	12.5				
8H 4H	8.4	8.9	8.8	9.3	9.7	11.3	11.8	11.7	12.2	12.5				
6H	8.4	8.9	8.8	9.3	9.7	11.2	11.7	11.6	12.0	12.5				
8H	8.4	8.8	8.8	9.2	9.6	11.1	11.5	11.6	12.0	12.4				
12H	8.4	8.7	8.8	9.1	9.6	11.1	11.4	11.6	11.9	12.4				
12H 4H	8.3	8.8	8.8	9.2	9.6	11.2	11.7	11.6	12.1	12.5				
6H	8.4	8.8	8.8	9.2	9.6	11.1	11.5	11.6	12.0	12.4				
8H	8.3	8.7	8.8	9.1	9.6	11.1	11.4	11.6	11.9	12.4				
Variations with the observer position at spacings:														
S = 1.0H	+ 0.9 / - 1.1					+ 4.2 / - 6.2								
1.5H	+ 1.2 / - 0.7					+ 6.2 / - 5.1								
2.0H	+ 1.4 / - 1.7					+ 5.7 / - 3.0								

CIE Pub.117 Corrected 692.8 lm Total Lamp Luminous Flux. (8log(F/F0) = -1.3)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-01-16

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 1ft	TYPE:4000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

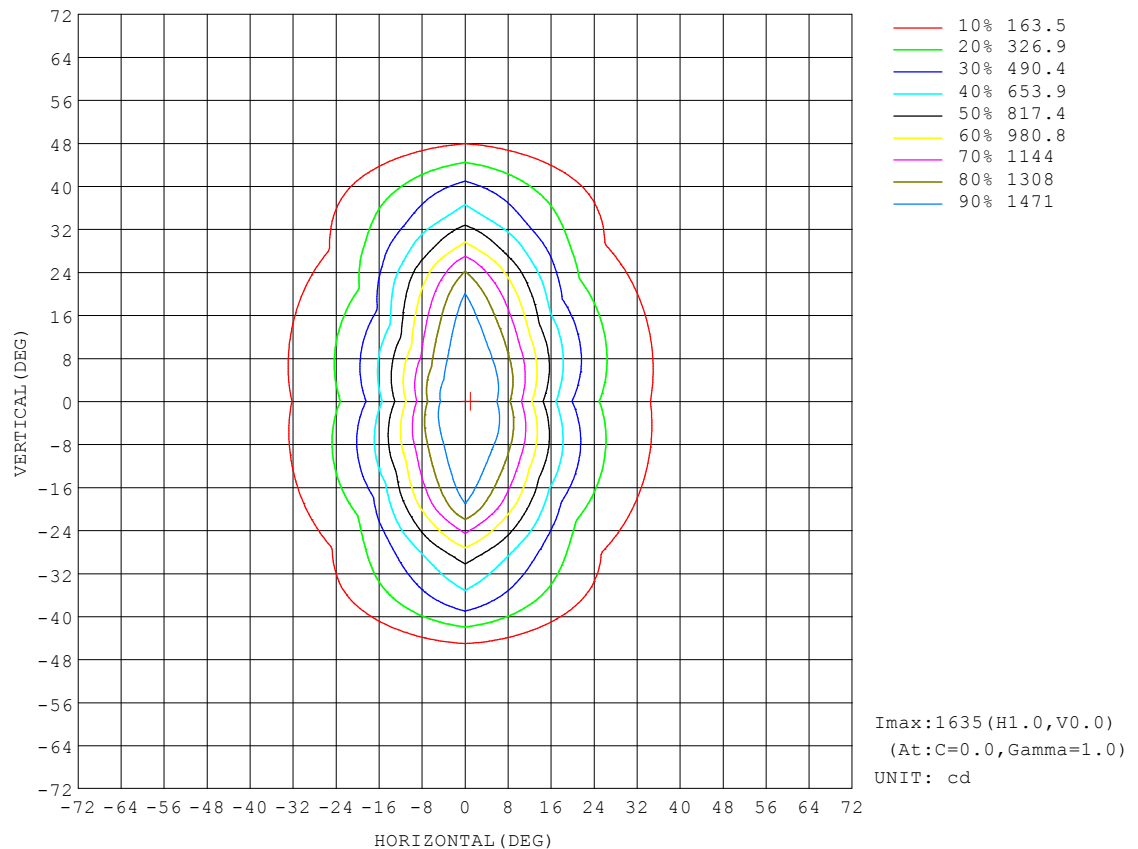
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	129	117	110	128	117	110	126	116	110	104
0.80	141	131	124	140	130	124	138	129	123	116
1.00	150	140	133	148	139	133	146	139	132	125
1.25	157	148	141	155	147	141	152	145	140	132
1.50	162	153	147	160	152	147	156	150	145	137
2.00	167	160	154	165	158	153	160	155	151	142
2.50	170	163	158	168	162	157	163	158	154	144
3.00	173	167	162	170	165	161	165	161	157	147
4.00	177	172	168	173	169	166	168	164	161	150
5.00	179	175	171	175	172	169	169	166	164	152
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:2024-01-16

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 1ft	TYPE:4000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

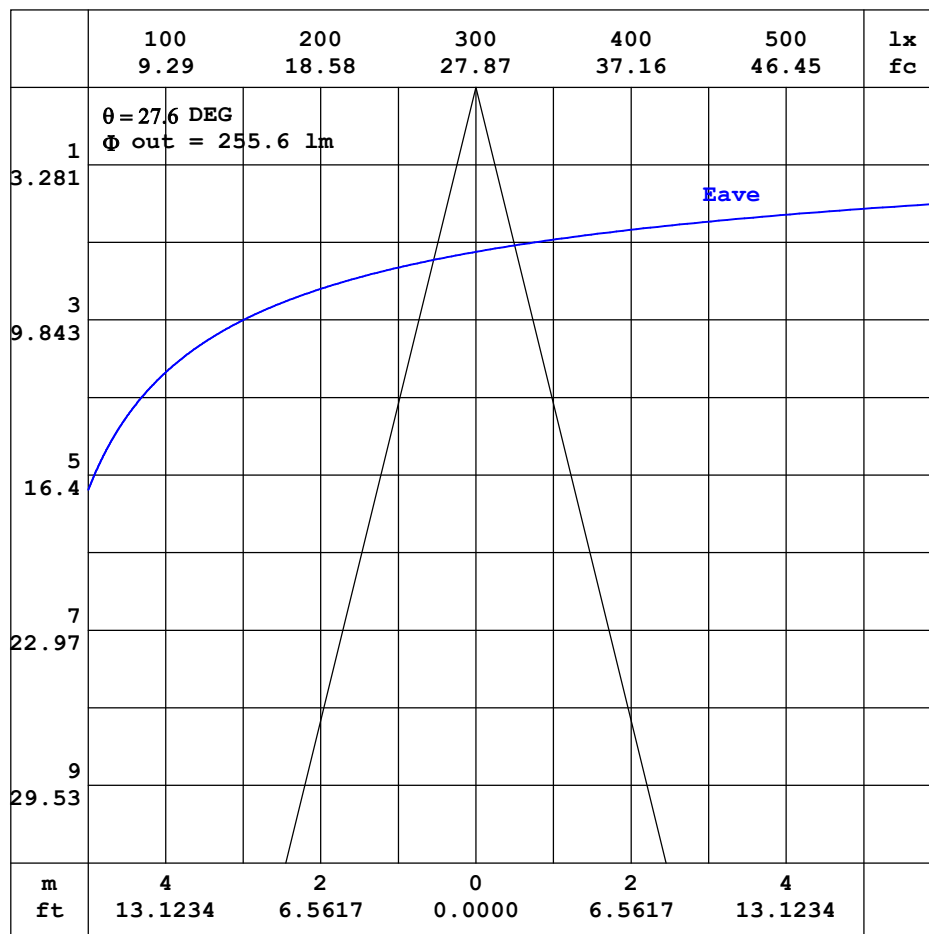


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-16

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:

AAI CURVES

NAME: COVO light 1ft	TYPE:4000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



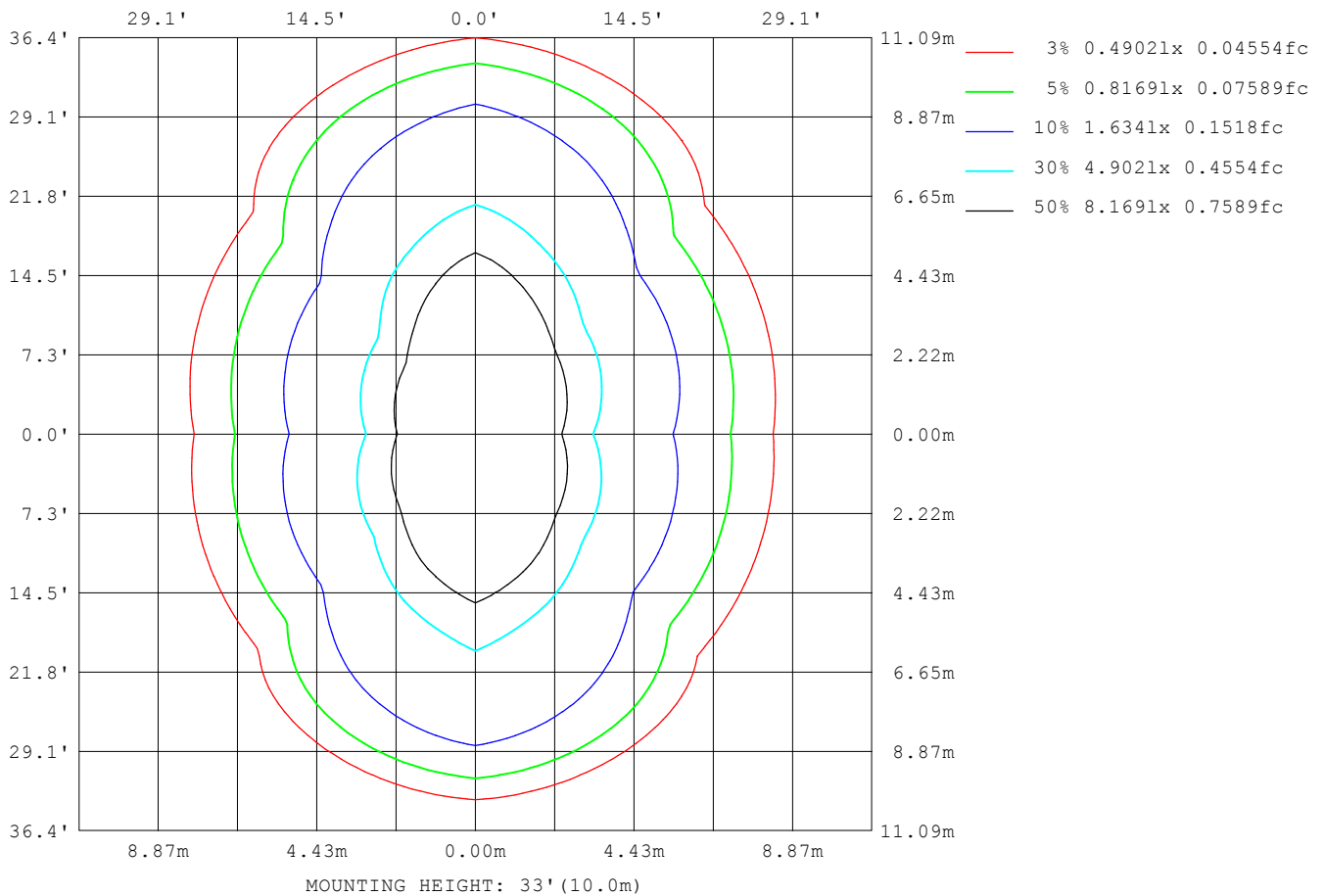
Note: The Curves indicate the illuminated area and the average illuminance when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2024-01-16

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 1ft	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:2024-01-16

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 1ft	TYPE:4000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

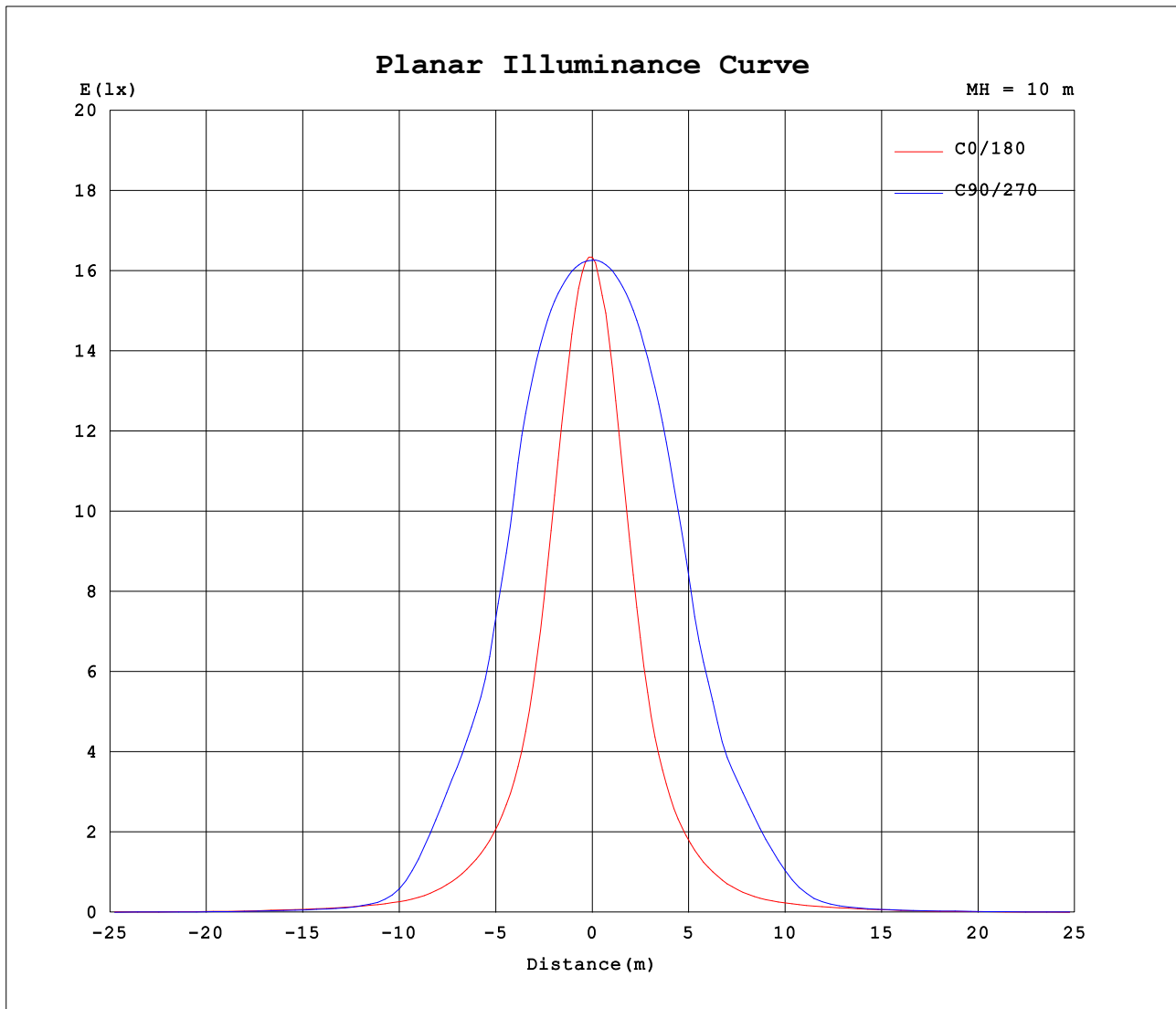
AvgL	cd/m2
L_0~180 (65) av	461
L_0~180 (75) av	211
L_0~180 (85) av	61
L_90~270 (65) av	424
L_90~270 (75) av	237
L_90~270 (85) av	36
L_45 (65) av	449
L_45 (75) av	201
L_45 (85) av	63

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-16

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: 2024-01-16

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 1ft	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	1634	1626	1626	1630	1634	1626	1626	1630										
5	1523	1587	1626	1534	1446	1498	1627	1575										
10	1182	1408	1616	1313	1060	1244	1615	1390										
15	781	1121	1572	1018	681	933	1572	1111										
20	486	796	1434	715	428	646	1473	803										
25	326	521	1119	468	283	432	1268	534										
30	226	325	827	290	193	289	961	350										
35	157	200	659	182	130	194	703	219										
40	106	127	440	116	88.0	128	533	143										
45	76.2	85.6	166	78.5	66.6	86.2	296	96.9										
50	59.4	58.8	65.2	54.3	53.1	60.8	98.9	67.5										
55	47.9	41.0	38.7	38.1	42.4	43.6	49.6	47.0										
60	34.6	28.5	26.8	26.5	26.3	30.8	33.7	33.1										
65	22.0	18.1	14.9	16.5	17.0	19.5	21.0	21.8										
70	12.7	10.2	9.28	8.41	9.16	11.1	13.0	12.5										
75	6.55	4.97	4.71	3.72	4.36	5.60	7.56	6.56										
80	2.77	1.96	1.42	1.48	1.57	2.20	3.42	2.81										
85	0.74	0.49	0.10	0.27	0.33	0.57	0.53	0.85										
90	0.02	0.10	0.00	0.10	0.00	0.10	0.00	0.17										
95	0.00	0.08	0.00	0.08	0.00	0.08	0.00	0.11										
100	0.00	0.06	0.00	0.06	0.00	0.06	0.00	0.07										
105	0.00	0.04	0.00	0.04	0.00	0.04	0.00	0.05										
110	0.00	0.04	0.00	0.03	0.00	0.01	0.00	0.03										
115	0.00	0.04	0.03	0.02	0.00	0.02	0.00	0.02										
120	0.01	0.04	0.10	0.05	0.00	0.02	0.02	0.03										
125	0.03	0.07	0.18	0.08	0.01	0.03	0.07	0.03										
130	0.06	0.11	0.28	0.13	0.04	0.07	0.12	0.06										
135	0.10	0.18	0.40	0.24	0.07	0.11	0.21	0.12										
140	0.17	0.28	0.53	0.38	0.12	0.21	0.30	0.19										
145	0.28	0.40	0.59	0.56	0.21	0.35	0.40	0.28										
150	0.45	0.55	0.70	0.75	0.33	0.50	0.50	0.39										
155	0.66	0.69	0.79	0.92	0.49	0.65	0.61	0.51										
160	0.90	0.83	0.88	1.05	0.69	0.79	0.72	0.61										
165	1.05	0.93	0.96	1.14	0.84	0.89	0.83	0.72										
170	1.11	1.01	1.03	1.16	0.95	0.98	0.94	0.84										
175	1.09	1.06	1.08	1.14	1.01	1.04	1.04	0.96										
180	1.05	1.08	1.09	1.07	1.05	1.08	1.09	1.06										

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-16

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: