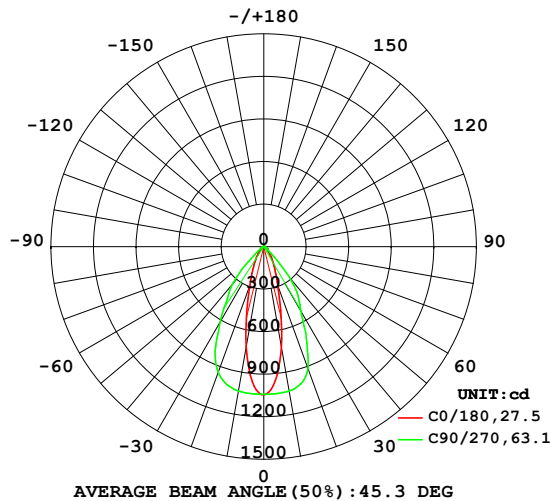


LUMINAIRE PHOTOMETRIC TEST REPORT

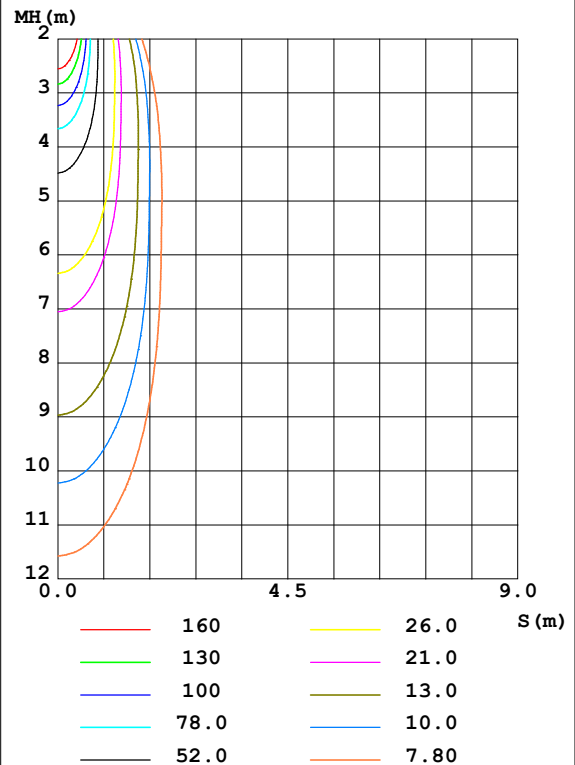
NAME: COVO light 1ft	TYPE:4000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 120.91 lm/W			
MODEL		Imax(cd)	1046	S/MH(C0/180)	0.46
NOMINAL POWER(W)	5	LOR(%)	26.5	S/MH(C90/270)	0.97
RATED VOLTAGE(V)	120.0	TOTAL FLUX(lm)	692.83	η UP,DN(C0-180)	0.0,12.9
NOMINAL FLUX(lm)	237.971	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,13.6
LAMPS INSIDE	11	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	120.0	η down(%)	26.4	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:

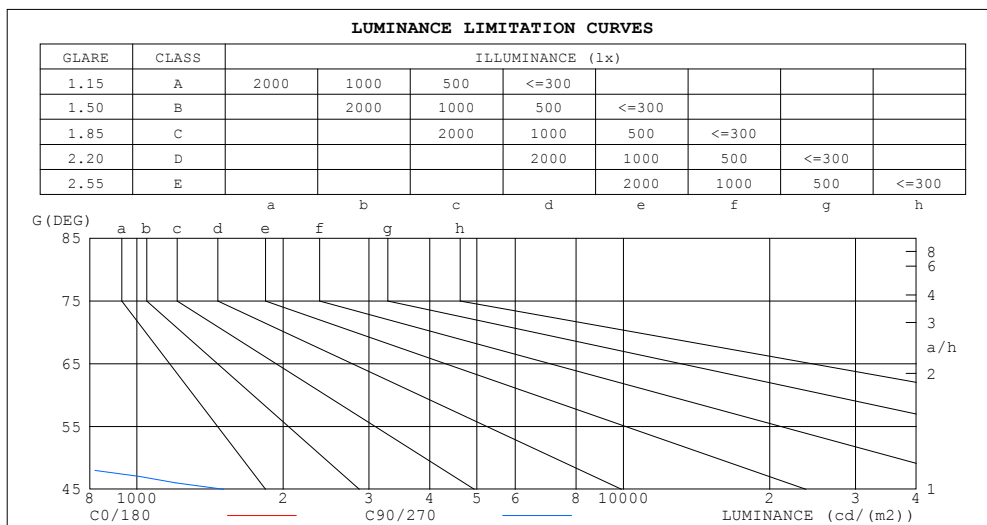
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	715.7	895.2	1034	842.5	714.6	800.7	1033	886.9	0- 10	90.69	90.69	13.1,3.46
20	291.8	502.1	916.0	458.6	289.4	417.9	942.9	511.0	10- 20	194.1	284.8	41.1,10.9
30	137.3	205.0	525.9	186.2	128.4	186.4	614.5	223.7	20- 30	180.9	465.8	67.2,17.8
40	64.28	80.47	281.3	74.53	58.96	82.32	341.3	91.44	30- 40	123.3	589.1	85,22.5
50	36.70	37.24	40.16	34.82	34.90	39.13	63.35	43.20	40- 50	61.08	650.1	93.8,24.8
60	20.67	18.07	17.15	16.95	18.03	19.86	21.59	21.10	50- 60	25.47	675.6	97.5,25.8
70	7.476	6.435	5.890	5.746	6.387	7.153	8.330	7.923	60- 70	12.20	687.8	99.3,26.3
80	1.534	1.199	0.8852	0.9332	1.171	1.427	2.174	1.769	70- 80	3.913	691.7	99.8,26.4
90	0.0002	0.0484	0	0.0436	0	0.0414	0	0.0924	80- 90	0.4690	692.2	99.9,26.4
100	0	0.0266	0	0.0145	0	0.0194	0	0.0315	90-100	0.0202	692.2	99.9,26.4
110	0	0.0048	0	0	0	0	0	0.0000	100-110	0.0046	692.2	99.9,26.4
120	0	0.0121	0.0410	0.0097	0	0	0.0000	0	110-120	0.0015	692.2	99.9,26.4
130	0.0193	0.0485	0.1476	0.0654	0.0049	0.0193	0.0606	0.0266	120-130	0.0199	692.2	99.9,26.4
140	0.0943	0.1527	0.3002	0.2085	0.0534	0.1185	0.1697	0.1064	130-140	0.0710	692.3	99.9,26.4
150	0.2686	0.3126	0.4139	0.4362	0.1794	0.2953	0.2980	0.2324	140-150	0.1371	692.4	99.9,26.5
160	0.5398	0.4845	0.5230	0.6274	0.4023	0.4818	0.4385	0.3752	150-160	0.1801	692.6	100,26.5
170	0.6684	0.6031	0.6223	0.6975	0.5765	0.6005	0.5669	0.5084	160-170	0.1542	692.8	100,26.5
180	0.6321	0.6563	0.6636	0.6394	0.6418	0.6515	0.6611	0.6466	170-180	0.0597	692.8	100,26.5
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	41	5
80	88	51
75	144	116
70	219	172
65	314	224
60	413	343
55	516	433
50	571	625
45	658	1509

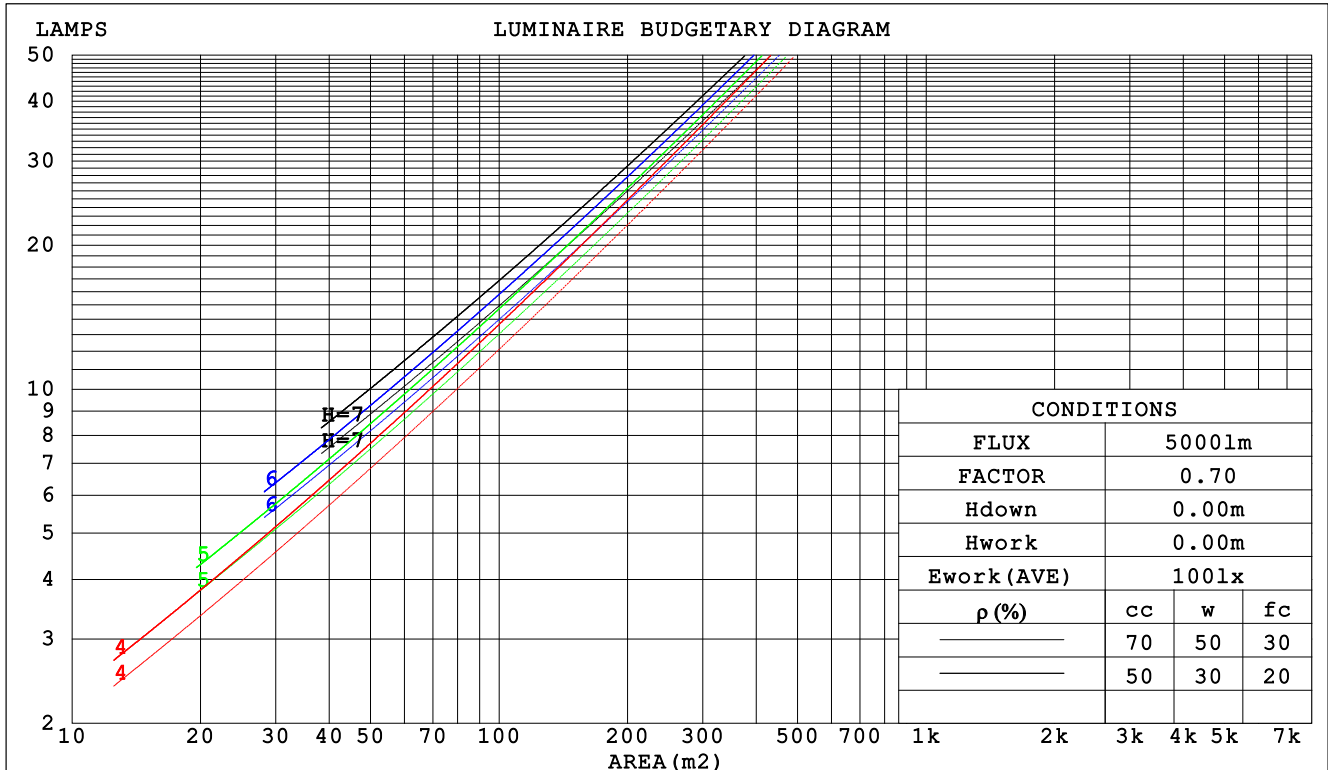
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-16

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	.32	.32	.32	.31	.31	.31	.29	.29	.29	.28	.28	.28	.27	.27	.27	.26
1.0	.29	.28	.28	.29	.28	.27	.28	.27	.27	.27	.26	.26	.26	.25	.25	.25
2.0	.27	.26	.25	.27	.26	.25	.26	.25	.24	.25	.24	.24	.24	.24	.23	.23
3.0	.25	.24	.23	.25	.23	.22	.24	.23	.22	.23	.22	.22	.23	.22	.21	.21
4.0	.23	.22	.21	.23	.22	.21	.23	.21	.20	.22	.21	.20	.21	.21	.20	.19
5.0	.22	.20	.19	.22	.20	.19	.21	.20	.19	.21	.20	.19	.20	.19	.18	.18
6.0	.21	.19	.18	.20	.19	.18	.20	.19	.18	.20	.18	.17	.19	.18	.17	.17
7.0	.19	.18	.17	.19	.18	.16	.19	.17	.16	.18	.17	.16	.18	.17	.16	.16
8.0	.18	.17	.15	.18	.17	.15	.18	.16	.15	.17	.16	.15	.17	.16	.15	.15
9.0	.17	.16	.15	.17	.16	.15	.17	.15	.14	.17	.15	.14	.16	.15	.14	.14
10.0	.16	.15	.14	.16	.15	.14	.16	.15	.14	.16	.15	.14	.16	.14	.14	.13



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	.049	.028	.009	.048	.027	.009	.044	.025	.008	.041	.024	.008	.038	.022	.007		
2.0	.048	.026	.008	.046	.025	.008	.043	.024	.007	.041	.023	.007	.038	.022	.007		
3.0	.045	.024	.007	.044	.023	.007	.041	.022	.007	.039	.021	.007	.037	.021	.006		
4.0	.043	.022	.007	.042	.022	.006	.040	.021	.006	.038	.020	.006	.036	.019	.006		
5.0	.041	.021	.006	.040	.020	.006	.038	.020	.006	.036	.019	.006	.035	.018	.006		
6.0	.039	.019	.006	.038	.019	.005	.036	.019	.005	.035	.018	.005	.033	.017	.005		
7.0	.037	.018	.005	.036	.018	.005	.035	.017	.005	.033	.017	.005	.032	.017	.005		
8.0	.035	.017	.005	.034	.017	.005	.033	.017	.005	.032	.016	.005	.031	.016	.005		
9.0	.033	.016	.005	.033	.016	.004	.032	.016	.004	.031	.015	.004	.030	.015	.004		
10.0	.032	.015	.004	.031	.015	.004	.030	.015	.004	.029	.015	.004	.028	.014	.004		

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	.051	.051	.051	.043	.043	.043	.030	.030	.030	.017	.017	.017	.005	.005	.005	
1.0	.046	.042	.038	.039	.036	.033	.027	.025	.023	.015	.014	.013	.005	.005	.004	
2.0	.042	.035	.030	.036	.030	.026	.025	.021	.018	.014	.012	.011	.005	.004	.003	
3.0	.039	.030	.024	.033	.026	.020	.023	.018	.014	.013	.011	.008	.004	.003	.003	
4.0	.036	.026	.019	.031	.023	.017	.021	.016	.012	.012	.009	.007	.004	.003	.002	
5.0	.034	.023	.016	.029	.020	.014	.020	.014	.010	.012	.008	.006	.004	.003	.002	
6.0	.032	.021	.013	.027	.018	.011	.019	.013	.008	.011	.007	.005	.004	.002	.002	
7.0	.030	.019	.011	.026	.016	.010	.018	.012	.007	.010	.007	.004	.003	.002	.001	
8.0	.028	.017	.010	.025	.015	.008	.017	.011	.006	.010	.006	.004	.003	.002	.001	
9.0	.027	.016	.008	.023	.014	.007	.016	.010	.005	.009	.006	.003	.003	.002	.001	
10.0	.026	.015	.007	.022	.013	.006	.015	.009	.005	.009	.005	.003	.003	.002	.001	

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					6.1	7.1	6.3	7.3	7.4	10.0	11.0	10.3	11.2	11.4
3H					6.4	7.3	6.7	7.5	7.7	10.0	10.9	10.2	11.1	11.3
4H					6.5	7.3	6.7	7.5	7.8	9.9	10.8	10.2	11.0	11.2
6H					6.4	7.2	6.7	7.5	7.7	9.8	10.6	10.1	10.9	11.1
8H					6.4	7.2	6.7	7.4	7.7	9.8	10.6	10.1	10.8	11.1
12H					6.4	7.1	6.7	7.4	7.6	9.7	10.5	10.1	10.8	11.0
4H 2H					6.2	7.1	6.5	7.3	7.5	9.9	10.7	10.2	11.0	11.2
3H					6.6	7.3	6.9	7.6	7.9	9.9	10.6	10.2	10.9	11.1
4H					6.7	7.3	7.0	7.6	8.0	9.8	10.5	10.2	10.8	11.1
6H					6.6	7.2	7.0	7.6	7.9	9.7	10.3	10.1	10.7	11.0
8H					6.6	7.2	7.0	7.5	7.9	9.7	10.2	10.1	10.6	11.0
12H					6.6	7.1	7.0	7.5	7.8	9.6	10.1	10.0	10.5	10.9
8H 4H					6.6	7.1	7.0	7.5	7.9	9.7	10.2	10.1	10.6	11.0
6H					6.6	7.0	7.0	7.4	7.9	9.6	10.1	10.0	10.5	10.9
8H					6.6	7.0	7.0	7.4	7.8	9.6	10.0	10.0	10.4	10.8
12H					6.5	6.9	7.0	7.3	7.8	9.5	9.8	10.0	10.3	10.8
12H 4H					6.5	7.0	7.0	7.4	7.8	9.6	10.1	10.1	10.5	10.9
6H					6.5	6.9	7.0	7.4	7.8	9.6	10.0	10.0	10.4	10.8
8H					6.5	6.9	7.0	7.3	7.8	9.5	9.9	10.0	10.3	10.8
Variations with the observer position at spacings:														
S = 1.0H					+ 0.9 / - 1.2					+ 4.2 / - 6.2				
1.5H					+ 1.2 / - 0.6					+ 6.3 / - 5.1				
2.0H					+ 1.4 / - 1.7					+ 5.7 / - 3.0				

CIE Pub.117 Corrected 2618 lm Total Lamp Luminous Flux. (8log(F/F0) = 3.3)

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:

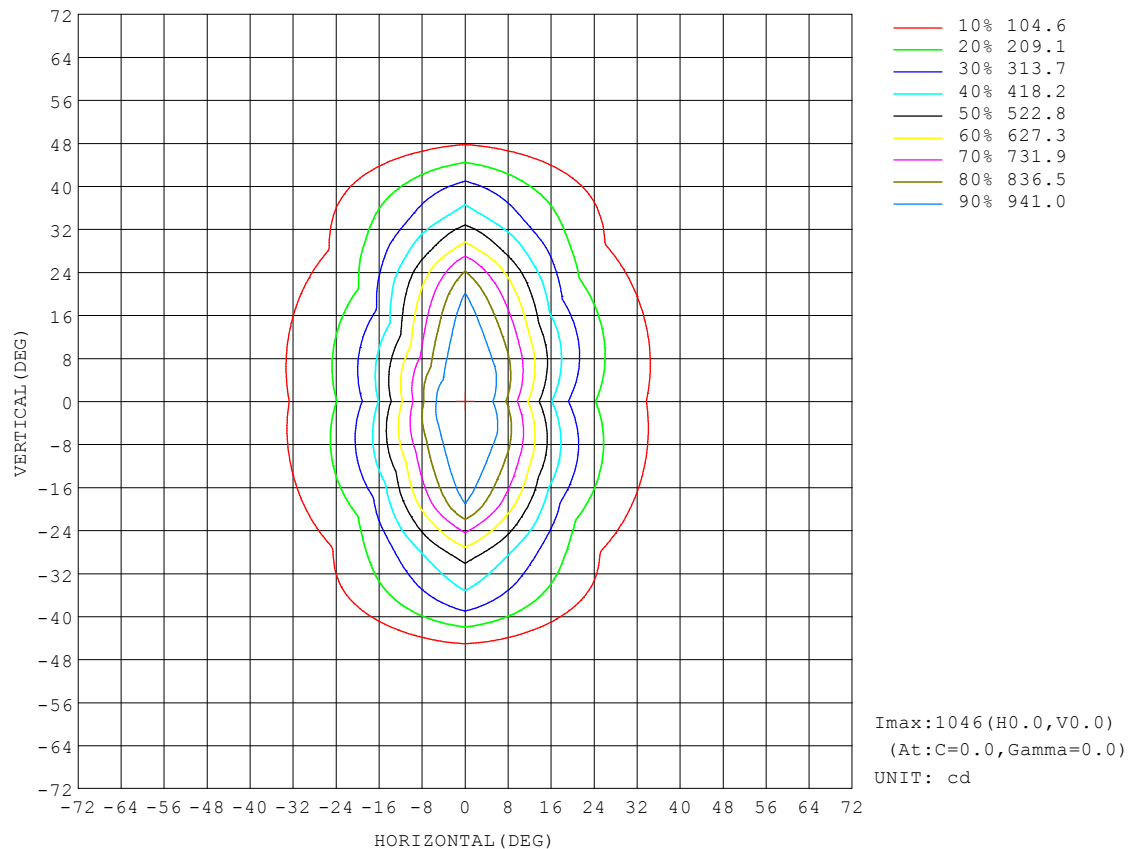
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) k(RI) x RCR = 5									
k = 0.60	22	20	19	22	20	19	21	20	19	18
0.80	24	22	21	24	22	21	23	22	21	20
1.00	25	24	23	25	23	22	25	24	22	21
1.25	27	25	24	26	25	24	26	24	24	22
1.50	27	26	25	27	26	25	26	25	24	23
2.00	28	27	26	28	27	26	27	26	25	24
2.50	29	28	27	28	27	27	27	27	26	24
3.00	29	28	27	29	28	27	28	27	27	25
4.00	30	29	28	29	29	28	28	28	27	25
5.00	30	30	29	30	29	29	29	28	28	26
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:

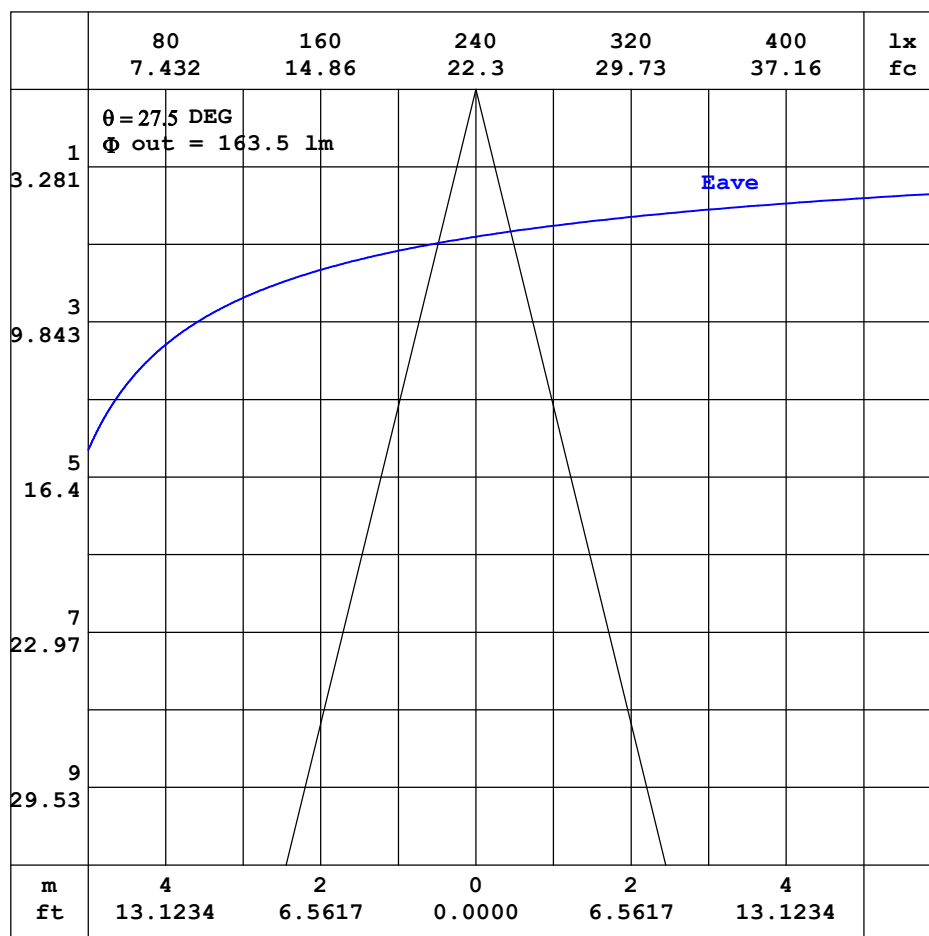


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-16

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:



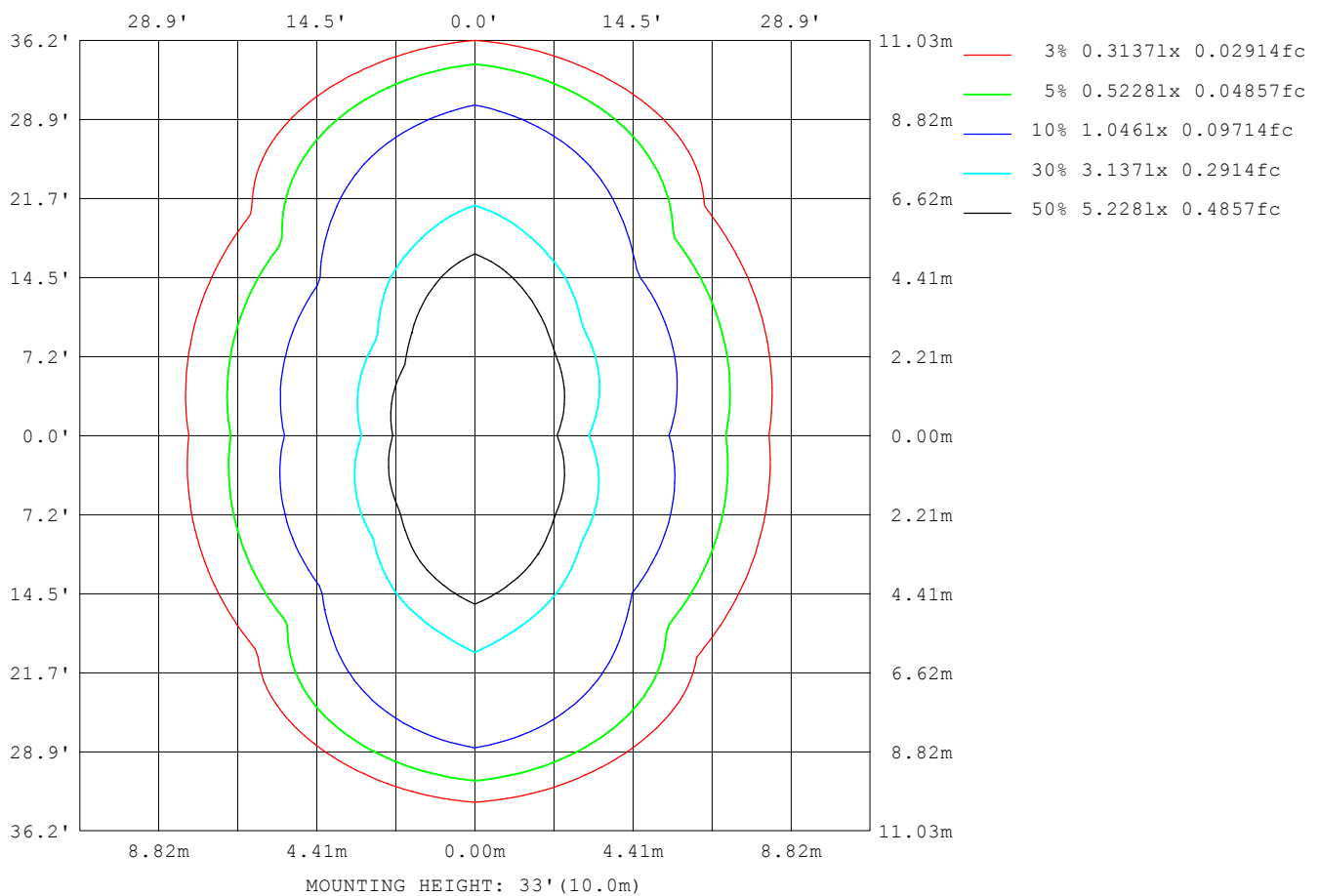
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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:

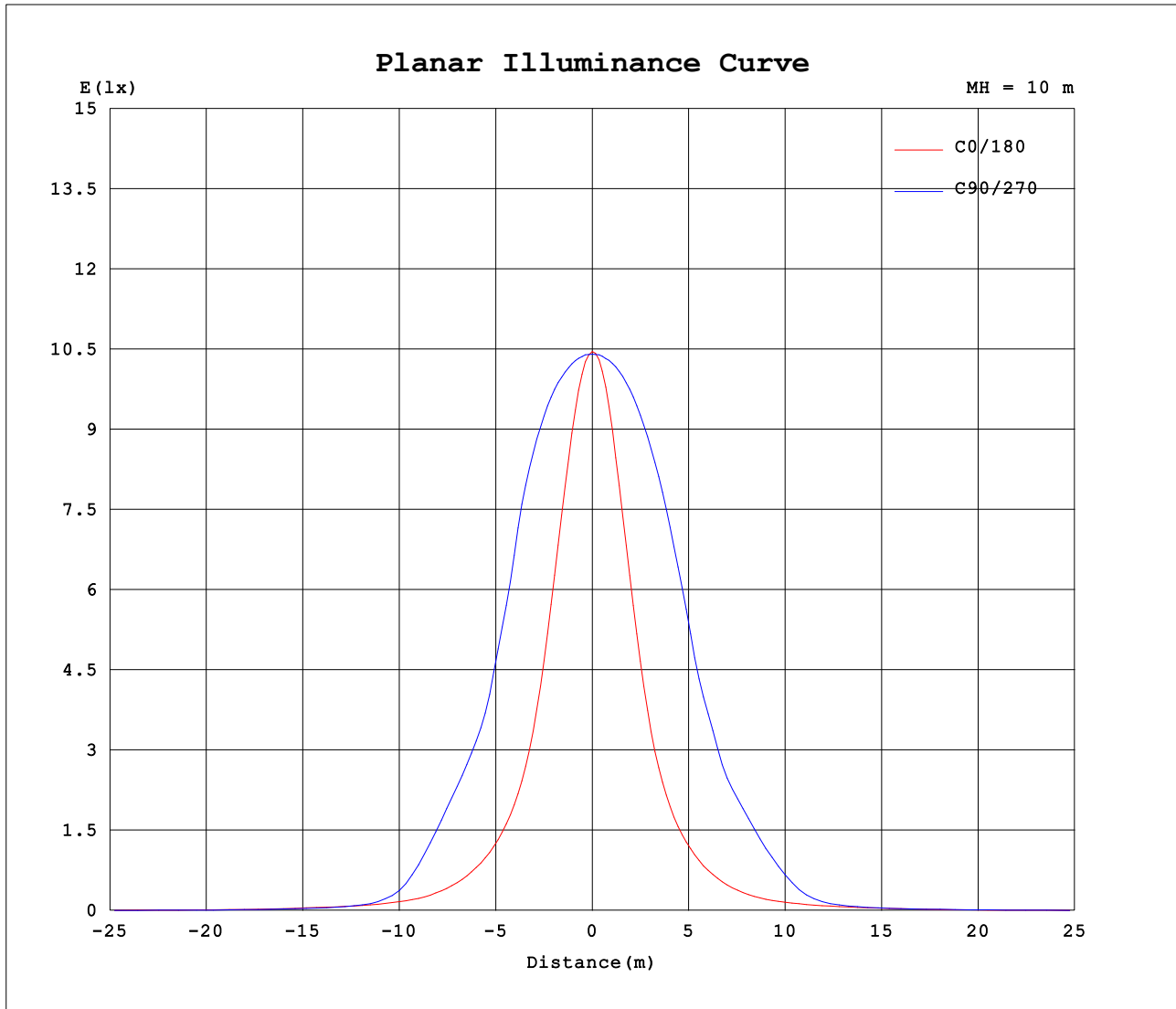
AvgL	cd/m2
L_0~180 (65) av	296
L_0~180 (75) av	132
L_0~180 (85) av	34
L_90~270 (65) av	271
L_90~270 (75) av	151
L_90~270 (85) av	21
L_45 (65) av	287
L_45 (75) av	127
L_45 (85) av	38

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	1046	1041	1041	1043	1046	1041	1041	1043										
5	947	1016	1040	984	954	961	1041	1007										
10	716	895	1034	842	715	801	1033	887										
15	466	709	1004	653	465	601	1007	708										
20	292	502	916	459	289	418	943	511										
25	197	329	712	301	191	279	811	341										
30	137	205	526	186	128	186	615	224										
35	95.0	125	423	115	87.3	125	450	140										
40	64.3	80.5	281	74.5	59.0	82.3	341	91.4										
45	46.5	54.2	107	50.3	44.1	55.9	190	62.3										
50	36.7	37.2	40.2	34.8	34.9	39.1	63.3	43.2										
55	29.6	26.0	24.8	24.4	28.2	28.1	31.8	30.1										
60	20.7	18.1	17.2	17.0	18.0	19.9	21.6	21.1										
65	13.3	11.4	9.45	10.5	11.7	12.6	13.4	13.9										
70	7.48	6.44	5.89	5.75	6.39	7.15	8.33	7.92										
75	3.73	3.10	3.00	2.31	3.09	3.63	4.82	4.14										
80	1.53	1.20	0.89	0.93	1.17	1.43	2.17	1.77										
85	0.36	0.28	0.04	0.15	0.24	0.36	0.32	0.52										
90	0.00	0.05	0.00	0.04	0.00	0.04	0.00	0.09										
95	0.00	0.03	0.00	0.03	0.00	0.03	0.00	0.05										
100	0.00	0.03	0.00	0.01	0.00	0.02	0.00	0.03										
105	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00										
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
120	0.00	0.01	0.04	0.01	0.00	0.00	0.00	0.00										
125	0.00	0.02	0.09	0.02	0.00	0.00	0.02	0.00										
130	0.02	0.05	0.15	0.07	0.00	0.02	0.06	0.03										
135	0.05	0.09	0.22	0.12	0.02	0.05	0.11	0.05										
140	0.09	0.15	0.30	0.21	0.05	0.12	0.17	0.11										
145	0.16	0.23	0.34	0.32	0.11	0.20	0.24	0.15										
150	0.27	0.31	0.41	0.44	0.18	0.30	0.30	0.23										
155	0.40	0.40	0.47	0.55	0.28	0.39	0.37	0.30										
160	0.54	0.48	0.52	0.63	0.40	0.48	0.44	0.38										
165	0.63	0.55	0.57	0.68	0.51	0.55	0.50	0.44										
170	0.67	0.60	0.62	0.70	0.58	0.60	0.57	0.51										
175	0.66	0.64	0.65	0.68	0.61	0.63	0.64	0.58										
180	0.63	0.66	0.66	0.64	0.64	0.65	0.66	0.65										

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: