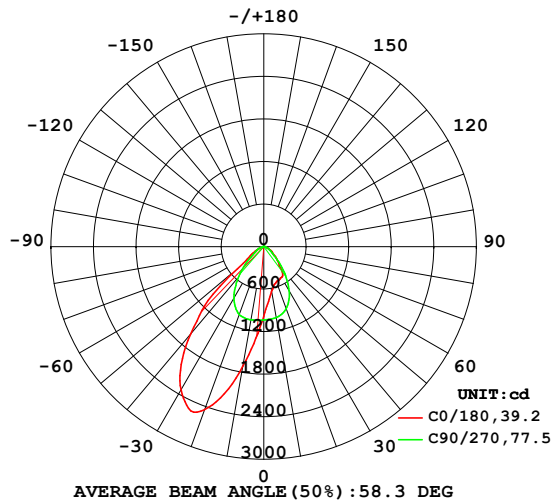


LUMINAIRE PHOTOMETRIC TEST REPORT

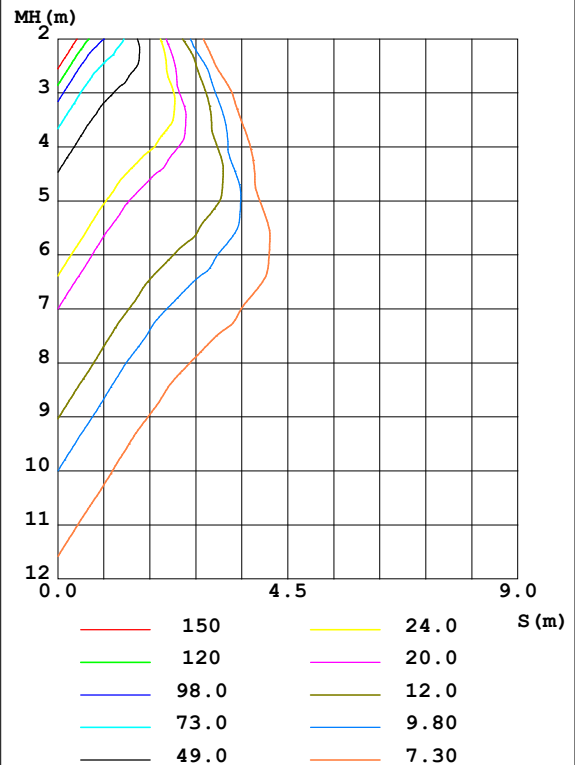
NAME: COVO light	TYPE:4000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 134.93 lm/W			
MODEL		Imax(cd)	2537	S/MH(C0/180)	0.58
NOMINAL POWER(W)	20	LOR(%)	98.0	S/MH(C90/270)	1.17
RATED VOLTAGE(V)	120.0	TOTAL FLUX(lm)	2617.7	η UP,DN(C0-180)	0.1,39.0
NOMINAL FLUX(lm)	242.874	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,58.8
LAMPS INSIDE	11	η up(%)	0.1	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	120.0	η down(%)	97.9	CIBSE SHR MAX	0.85

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:

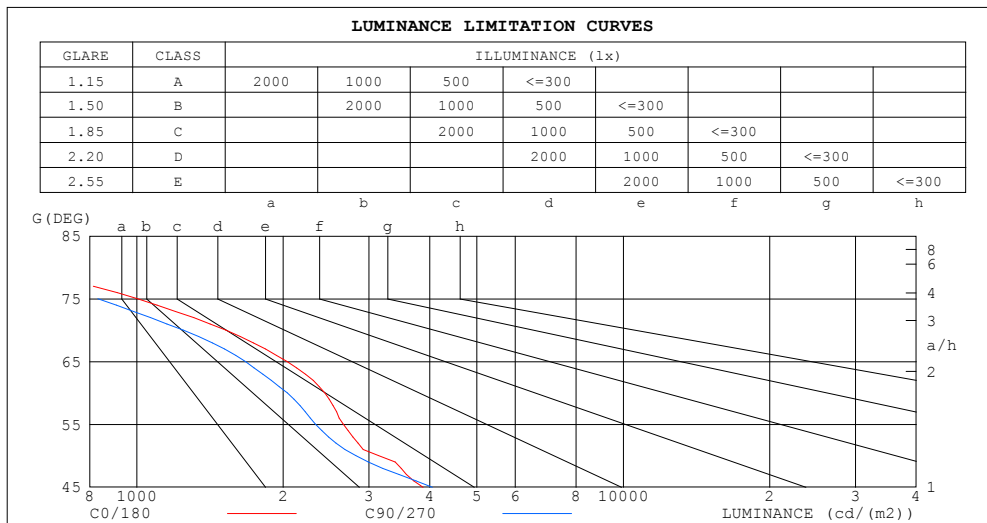
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	644.3	738.2	1015	1493	1718	1575	1048	729.9	0- 10	102.1	102.1	3.9,3.82
20	530.4	571.6	929.6	2072	2448	2203	1017	577.9	10- 20	346.5	448.6	17.1,16.8
30	501.8	485.3	720.4	2259	2337	2468	845.1	496.3	20- 30	603.4	1052	40.2,39.4
40	343.2	387.5	424.8	1622	1606	1900	551.0	409.5	30- 40	690.3	1742	66.6,65.2
50	201.9	219.1	181.2	751.8	484.9	980.6	262.9	253.2	40- 50	515.7	2258	86.3,84.5
60	121.7	109.9	101.9	158.7	171.6	223.7	124.2	128.3	50- 60	232.2	2490	95.1,93.2
70	52.14	46.08	42.61	45.99	56.78	59.37	62.33	60.03	60- 70	88.96	2579	98.5,96.5
80	8.835	7.561	8.112	9.628	13.29	14.24	16.77	12.97	70- 80	30.70	2610	99.7,97.7
90	0.0121	0.0726	0	0.0920	0.8690	0.8730	0.2012	0.0394	80- 90	4.343	2614	99.9,97.9
100	0.0459	0.0945	0.0387	0.1017	0.0194	0.0412	0.0001	0.0315	90-100	0.0610	2614	99.9,97.9
110	0.1669	0.3176	0.1499	0.1429	0.0485	0.0653	0.0461	0.1427	100-110	0.0866	2614	99.9,97.9
120	0.6702	0.7874	0.3726	0.2422	0.1138	0.1258	0.1698	0.4380	110-120	0.2364	2615	99.9,97.9
130	1.317	1.306	0.7164	0.3755	0.2133	0.2227	0.4072	0.8304	120-130	0.4600	2615	99.9,97.9
140	1.840	1.746	1.036	0.5378	0.3247	0.3558	0.7245	1.239	130-140	0.6381	2616	99.9,97.9
150	1.993	2.030	1.390	0.7897	0.4676	0.5689	1.100	1.765	140-150	0.7007	2616	100,97.9
160	1.904	2.119	1.681	1.127	0.7100	0.8788	1.451	2.177	150-160	0.6397	2617	100,98
170	1.727	2.017	1.838	1.570	1.027	1.266	1.737	2.274	160-170	0.4516	2618	100,98
180	1.363	1.681	1.850	2.022	1.363	1.681	1.845	2.008	170-180	0.1629	2618	100,98
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	232	139
80	509	467
75	1003	831
70	1524	1246
65	2037	1672
60	2434	2038
55	2658	2331
50	3141	2819
45	3875	4050

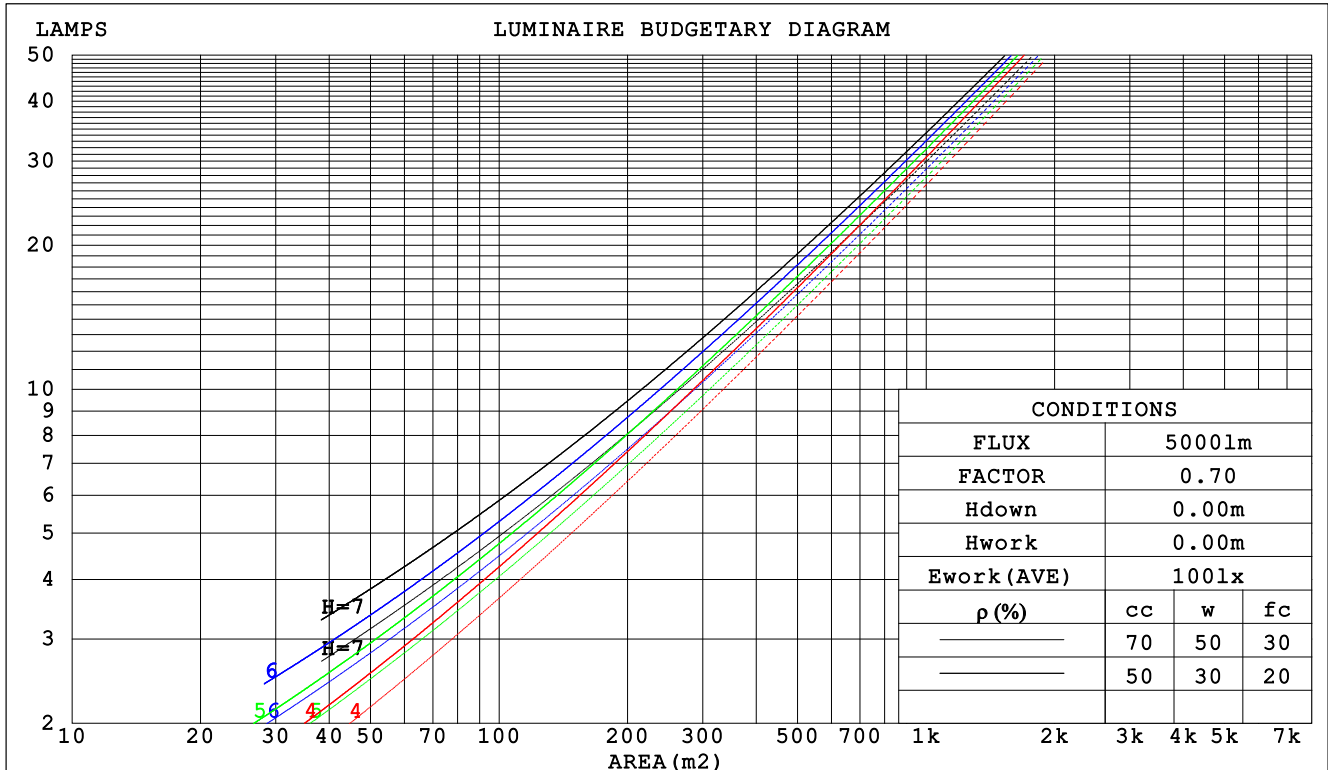
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-13

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	1.17	1.17	1.17	1.14	1.14	1.14	1.09	1.09	1.09	1.04	1.04	1.04	.00	.00	.00	.98
1.0	1.06	1.03	.00	1.04	1.01	.98	.00	.97	.95	.96	.94	.92	.92	.91	.90	.88
2.0	.96	.90	.86	.94	.89	.85	.90	.87	.83	.87	.84	.81	.85	.82	.80	.78
3.0	.86	.80	.75	.85	.79	.74	.82	.77	.73	.80	.75	.72	.77	.74	.71	.69
4.0	.78	.71	.66	.77	.70	.65	.75	.69	.65	.73	.68	.64	.71	.66	.63	.61
5.0	.71	.64	.58	.70	.63	.58	.68	.62	.57	.66	.61	.57	.65	.60	.56	.54
6.0	.65	.57	.52	.64	.57	.52	.62	.56	.51	.61	.55	.51	.59	.54	.51	.49
7.0	.59	.52	.47	.59	.52	.46	.57	.51	.46	.56	.50	.46	.55	.49	.46	.44
8.0	.55	.47	.42	.54	.47	.42	.53	.46	.42	.52	.46	.42	.50	.45	.41	.40
9.0	.50	.43	.38	.50	.43	.38	.49	.42	.38	.48	.42	.38	.47	.41	.38	.36
10.0	.47	.40	.35	.46	.39	.35	.45	.39	.35	.44	.39	.35	.43	.38	.34	.33



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	.224	.127	.040	.217	.124	.039	.204	.117	.037	.193	.111	.036	.182	.105	.034		
2.0	.219	.120	.037	.213	.117	.036	.202	.112	.035	.192	.108	.034	.182	.103	.033		
3.0	.209	.111	.033	.204	.109	.033	.195	.105	.032	.186	.102	.031	.178	.098	.030		
4.0	.199	.103	.030	.194	.102	.030	.186	.099	.029	.178	.096	.029	.171	.093	.028		
5.0	.188	.096	.028	.184	.095	.028	.177	.092	.027	.170	.090	.027	.164	.087	.026		
6.0	.178	.089	.026	.175	.088	.025	.168	.086	.025	.162	.084	.025	.156	.082	.024		
7.0	.169	.084	.024	.166	.083	.024	.160	.081	.023	.155	.079	.023	.149	.078	.023		
8.0	.161	.078	.022	.158	.078	.022	.152	.076	.022	.147	.075	.022	.143	.073	.021		
9.0	.152	.074	.021	.150	.073	.021	.145	.072	.020	.141	.070	.020	.136	.069	.020		
10.0	.145	.070	.019	.143	.069	.019	.138	.068	.019	.134	.067	.019	.130	.066	.019		

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	.188	.188	.188	.160	.160	.160	.109	.109	.109	.063	.063	.063	.020	.020	.020		
1.0	.172	.155	.139	.147	.133	.120	.101	.091	.083	.058	.053	.048	.019	.017	.016		
2.0	.161	.131	.105	.138	.112	.091	.094	.078	.063	.054	.045	.037	.017	.015	.012		
3.0	.151	.113	.082	.130	.097	.071	.089	.067	.050	.051	.039	.029	.017	.013	.010		
4.0	.144	.099	.065	.123	.085	.056	.085	.060	.040	.049	.035	.023	.016	.011	.008		
5.0	.136	.088	.053	.117	.076	.046	.081	.053	.032	.047	.031	.019	.015	.010	.006		
6.0	.130	.080	.044	.112	.069	.038	.077	.048	.027	.045	.028	.016	.014	.009	.005		
7.0	.124	.073	.037	.107	.063	.032	.074	.044	.023	.043	.026	.014	.014	.009	.005		
8.0	.119	.067	.032	.102	.058	.028	.071	.041	.020	.041	.024	.012	.013	.008	.004		
9.0	.113	.062	.028	.098	.054	.024	.068	.038	.017	.039	.022	.010	.013	.007	.003		
10.0	.109	.058	.025	.094	.051	.022	.065	.036	.015	.038	.021	.009	.012	.007	.003		

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					13.2	14.5	13.5	14.7	14.9	13.1	14.3	13.3	14.5	14.7
3H					13.8	14.9	14.1	15.2	15.4	13.5	14.6	13.7	14.8	15.1
4H					13.9	15.0	14.2	15.2	15.4	13.5	14.6	13.8	14.8	15.1
6H					13.8	14.9	14.2	15.1	15.4	13.5	14.5	13.8	14.8	15.0
8H					13.8	14.8	14.1	15.1	15.3	13.4	14.4	13.8	14.7	15.0
12H					13.8	14.7	14.1	15.0	15.3	13.4	14.3	13.7	14.6	14.9
4H 2H					13.4	14.5	13.7	14.7	15.0	13.3	14.4	13.6	14.6	14.8
3H					14.1	15.0	14.4	15.3	15.6	13.8	14.7	14.1	15.0	15.3
4H					14.2	15.1	14.6	15.4	15.7	13.9	14.7	14.3	15.0	15.4
6H					14.2	15.0	14.6	15.3	15.7	13.9	14.6	14.3	15.0	15.3
8H					14.2	14.9	14.6	15.2	15.6	13.9	14.5	14.3	14.9	15.3
12H					14.2	14.8	14.6	15.2	15.6	13.8	14.4	14.2	14.8	15.2
8H 4H					14.2	14.9	14.6	15.2	15.6	13.9	14.6	14.3	14.9	15.3
6H					14.2	14.8	14.6	15.2	15.6	13.9	14.4	14.3	14.8	15.3
8H					14.2	14.7	14.6	15.1	15.5	13.9	14.4	14.3	14.8	15.2
12H					14.2	14.6	14.6	15.0	15.5	13.8	14.2	14.3	14.7	15.2
12H 4H					14.1	14.8	14.6	15.1	15.5	13.8	14.5	14.2	14.8	15.2
6H					14.2	14.7	14.6	15.1	15.5	13.8	14.3	14.3	14.8	15.2
8H					14.1	14.6	14.6	15.0	15.5	13.8	14.2	14.3	14.7	15.2
Variations with the observer position at spacings:														
S = 1.0H					+ 0.8 / - 1.0					+ 0.9 / - 1.4				
1.5H					+ 0.5 / - 0.8					+ 1.2 / - 1.3				
2.0H					+ 1.5 / - 1.1					+ 1.8 / - 1.2				

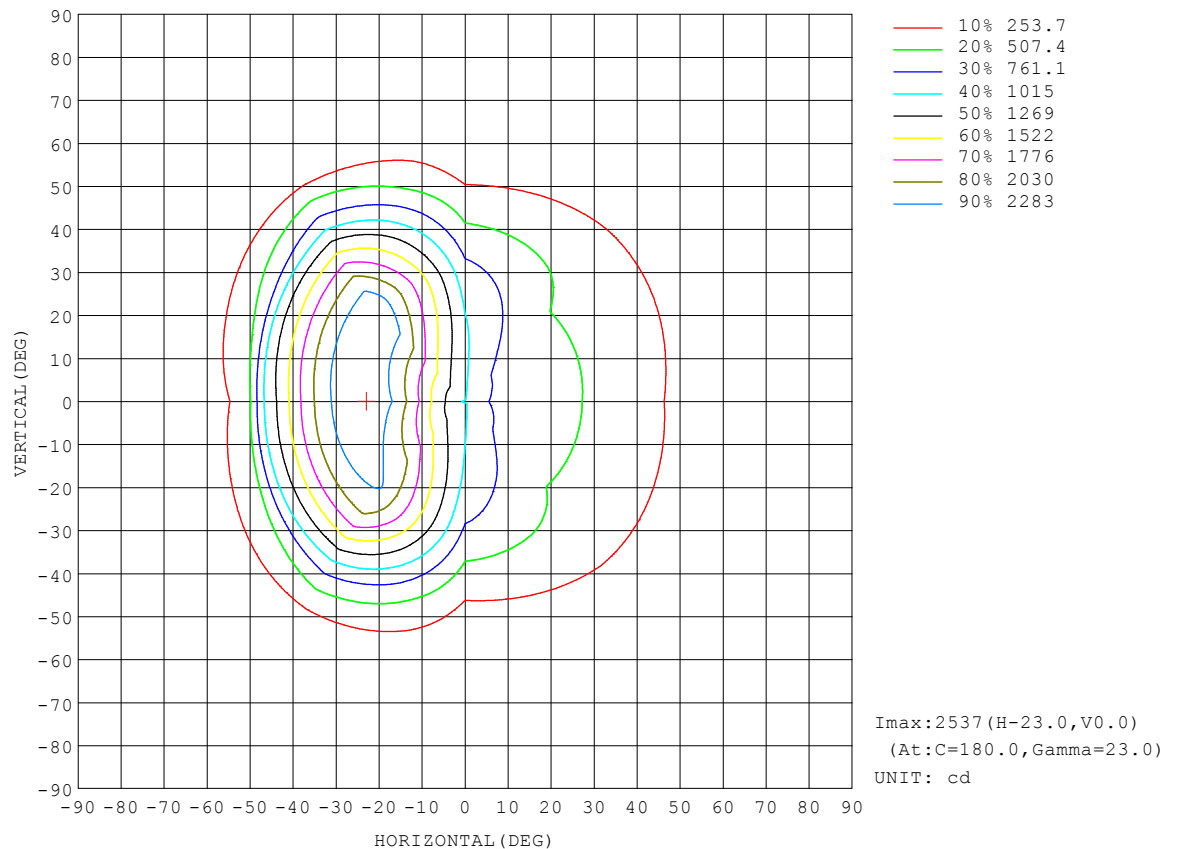
CIE Pub.117 Corrected 2672 lm Total Lamp Luminous Flux. (8log(F/F0) = 3.4)

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:

ISOCANDELA DIAGRAM

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

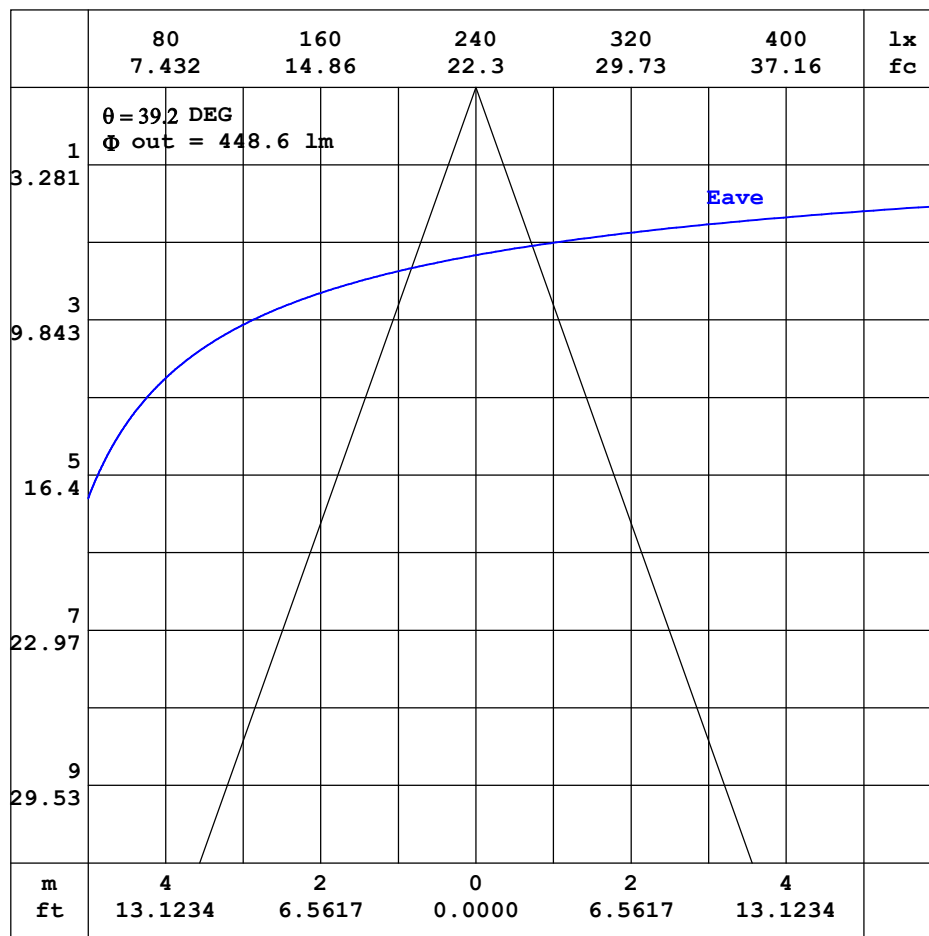


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
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:



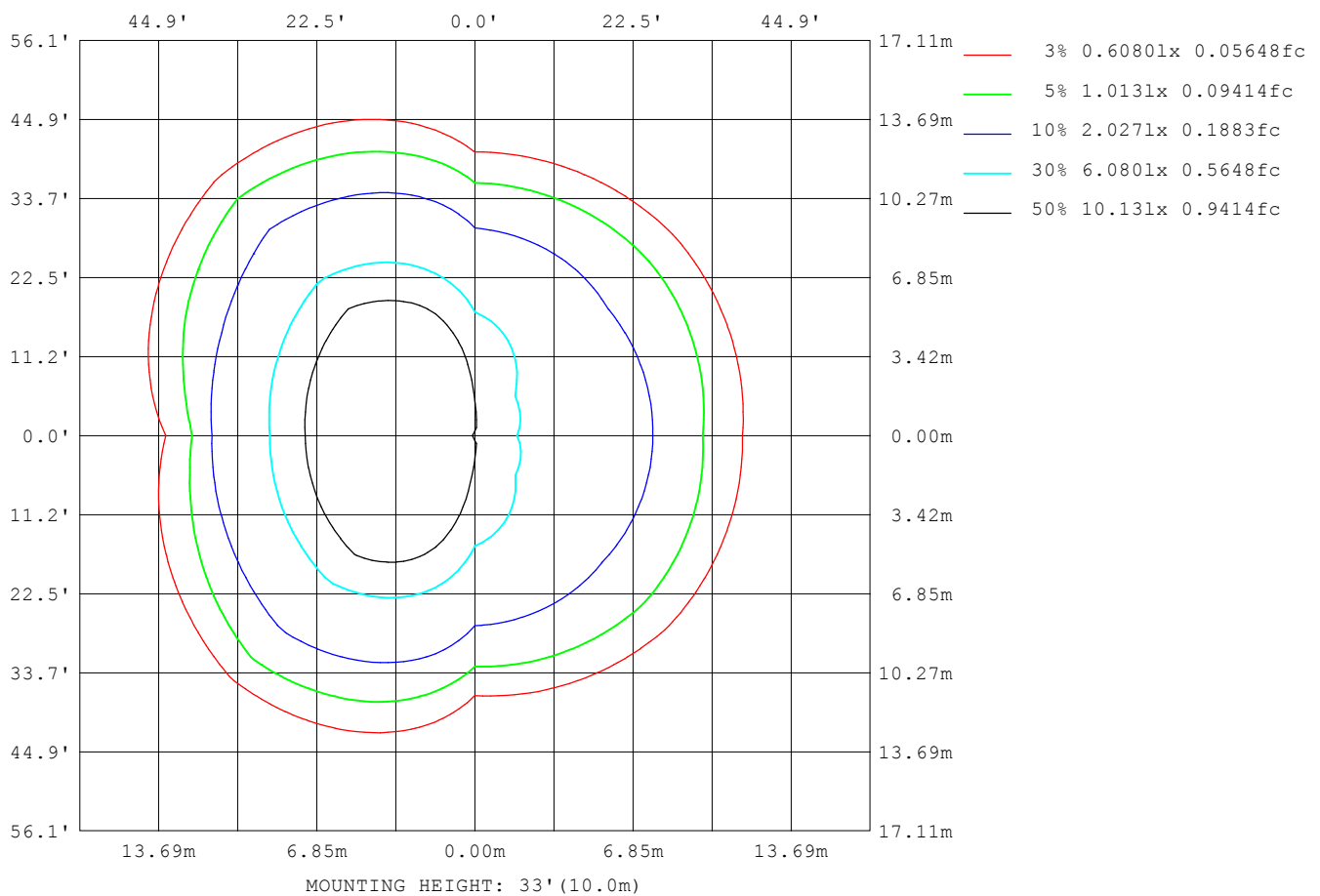
Note: The Curves indicate the illuminated area and the average illuminance when the luminaire is at different distance.

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

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:

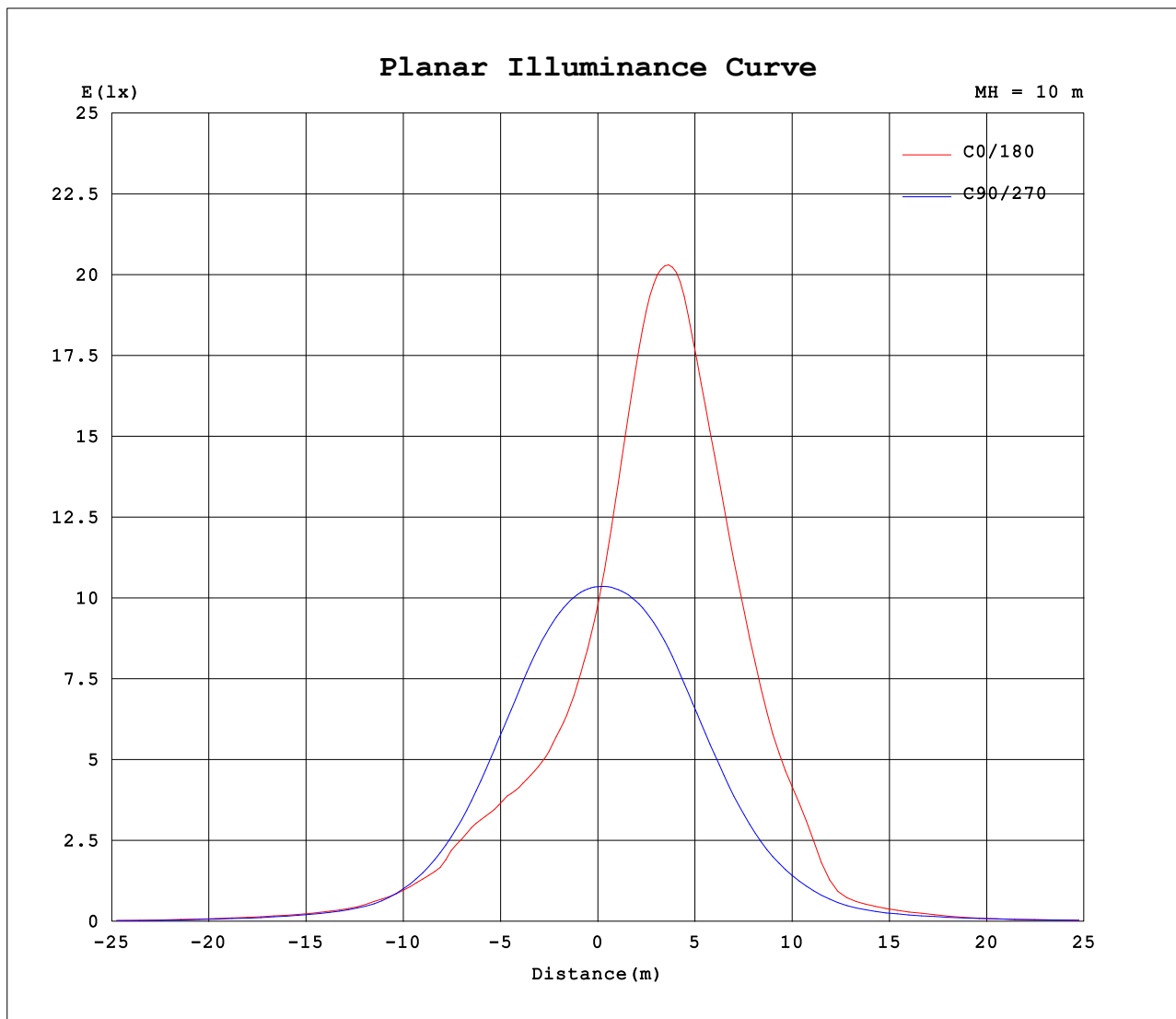
AvgL	cd/m2
L_0~180 (65) av	2087
L_0~180 (75) av	1052
L_0~180 (85) av	386
L_90~270 (65) av	1926
L_90~270 (75) av	1096
L_90~270 (85) av	357
L_45 (65) av	2124
L_45 (75) av	1054
L_45 (85) av	342

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	979	1039	1036	1003	979	1039	1036	1003										
5	778	864	1030	1218	1299	1277	1042	845										
10	644	738	1015	1493	1718	1575	1048	730										
15	565	644	987	1794	2146	1901	1045	643										
20	530	572	930	2072	2448	2203	1017	578										
25	521	524	840	2252	2515	2416	949	531										
30	502	485	720	2259	2337	2468	845	496										
35	464	447	574	2017	2031	2239	706	462										
40	343	388	425	1622	1606	1900	551	409										
45	274	315	286	1181	1181	1457	404	346										
50	202	219	181	752	485	981	263	253										
55	152	157	134	417	248	585	167	181										
60	122	110	102	159	172	224	124	128										
65	86.1	77.1	70.6	81.4	90.3	109	92.2	91.1										
70	52.1	46.1	42.6	46.0	56.8	59.4	62.3	60.0										
75	26.0	22.0	21.5	23.2	28.5	32.1	35.2	31.8										
80	8.83	7.56	8.11	9.63	13.3	14.2	16.8	13.0										
85	2.02	1.36	1.21	2.48	4.71	4.91	5.01	3.15										
90	0.01	0.07	0.00	0.09	0.87	0.87	0.20	0.04										
95	0.02	0.07	0.01	0.09	0.00	0.05	0.00	0.03										
100	0.05	0.09	0.04	0.10	0.02	0.04	0.00	0.03										
105	0.09	0.16	0.08	0.11	0.03	0.05	0.02	0.07										
110	0.17	0.32	0.15	0.14	0.05	0.07	0.05	0.14										
115	0.40	0.53	0.23	0.19	0.08	0.09	0.09	0.27										
120	0.67	0.79	0.37	0.24	0.11	0.13	0.17	0.44										
125	0.99	1.05	0.53	0.30	0.16	0.17	0.27	0.63										
130	1.32	1.31	0.72	0.38	0.21	0.22	0.41	0.83										
135	1.61	1.54	0.91	0.45	0.27	0.29	0.55	1.03										
140	1.84	1.75	1.04	0.54	0.32	0.36	0.72	1.24										
145	1.95	1.91	1.21	0.65	0.39	0.46	0.91	1.51										
150	1.99	2.03	1.39	0.79	0.47	0.57	1.10	1.77										
155	1.97	2.10	1.56	0.94	0.57	0.72	1.28	1.99										
160	1.90	2.12	1.68	1.13	0.71	0.88	1.45	2.18										
165	1.82	2.09	1.77	1.33	0.86	1.07	1.62	2.27										
170	1.73	2.02	1.84	1.57	1.03	1.27	1.74	2.27										
175	1.56	1.87	1.86	1.80	1.19	1.48	1.82	2.18										
180	1.36	1.68	1.85	2.02	1.36	1.68	1.85	2.01										

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: