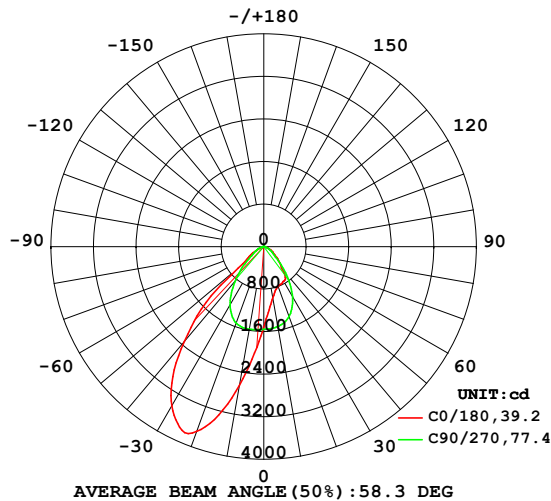


LUMINAIRE PHOTOMETRIC TEST REPORT

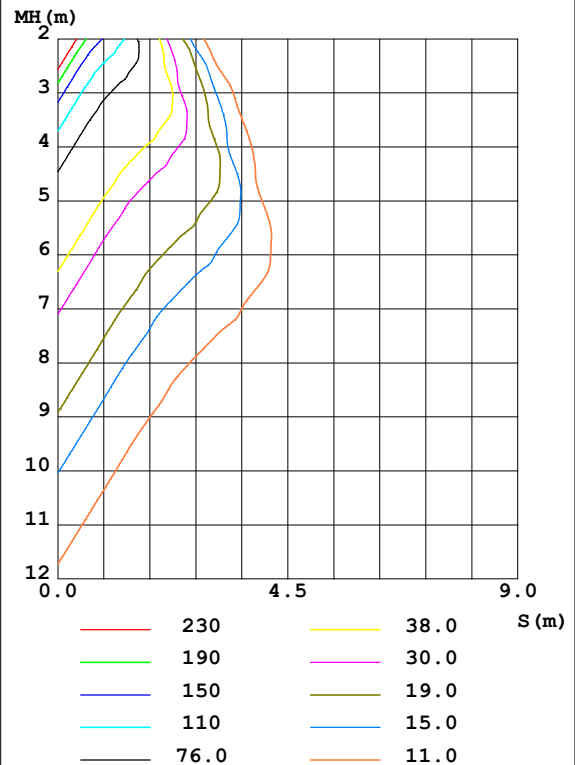
NAME: COVO light	TYPE:4000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 128.25 lm/W			
MODEL		I _{max} (cd)	3802	S/MH (C0/180)	0.56
NOMINAL POWER(W)	30	LOR(%)	149.4	S/MH (C90/270)	1.17
RATED VOLTAGE(V)	120.0	TOTAL FLUX(lm)	3911.6	η UP,DN (C0-180)	0.1,59.9
NOMINAL FLUX(lm)	237.971	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.1,89.3
LAMPS INSIDE	11	η up (%)	0.2	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	120.0	η down (%)	149.2	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:

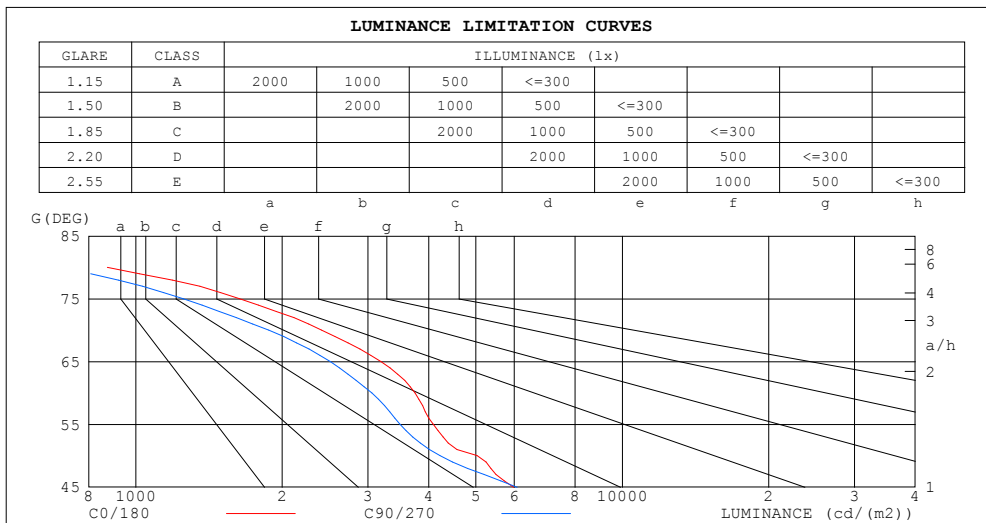
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	982.4	1110	1526	2241	2646	2370	1578	1095	0- 10	154.5	154.5	3.95,5.9
20	798.4	858.4	1399	3107	3699	3316	1530	867.6	10- 20	522.6	677.0	17.3,25.9
30	752.4	727.3	1084	3387	3462	3703	1269	744.6	20- 30	904.9	1582	40.4,60.4
40	522.0	581.8	638.9	2434	2327	2843	826.6	613.4	30- 40	1031	2613	66.8,99.8
50	323.5	329.5	271.3	1123	629.0	1456	393.6	380.4	40- 50	762.9	3376	86.3,129
60	187.3	167.1	152.7	227.5	240.2	326.6	187.6	192.5	50- 60	344.8	3721	95.1,142
70	82.33	69.63	64.16	68.86	80.11	87.18	93.37	89.42	60- 70	133.2	3854	98.5,147
80	15.18	11.57	12.16	14.38	18.28	21.03	25.10	19.52	70- 80	46.04	3900	99.7,149
90	0.0484	0.1308	0.0217	0.1623	0.8177	1.262	0.3165	0.0907	80- 90	6.490	3906	99.9,149
100	0.0919	0.1575	0.0967	0.1647	0.0606	0.0944	0.0340	0.0847	90-100	0.1113	3906	99.9,149
110	0.2636	0.4994	0.2491	0.2422	0.1091	0.1307	0.1018	0.2395	100-110	0.1571	3907	99.9,149
120	0.9993	1.199	0.5952	0.3925	0.2060	0.2202	0.2886	0.6801	110-120	0.3791	3907	99.9,149
130	1.970	1.979	1.108	0.5863	0.3587	0.3607	0.6327	1.271	120-130	0.7118	3908	99.9,149
140	2.775	2.628	1.596	0.8382	0.5282	0.5640	1.112	1.874	130-140	0.9763	3909	99.9,149
150	3.022	3.049	2.106	1.197	0.7510	0.8885	1.679	2.656	140-150	1.068	3910	100,149
160	2.914	3.192	2.547	1.718	1.134	1.356	2.204	3.272	150-160	0.9731	3911	100,149
170	2.676	3.051	2.778	2.381	1.611	1.930	2.630	3.432	160-170	0.6870	3911	100,149
180	2.136	2.557	2.795	3.051	2.131	2.553	2.795	3.037	170-180	0.2480	3912	100,149
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:



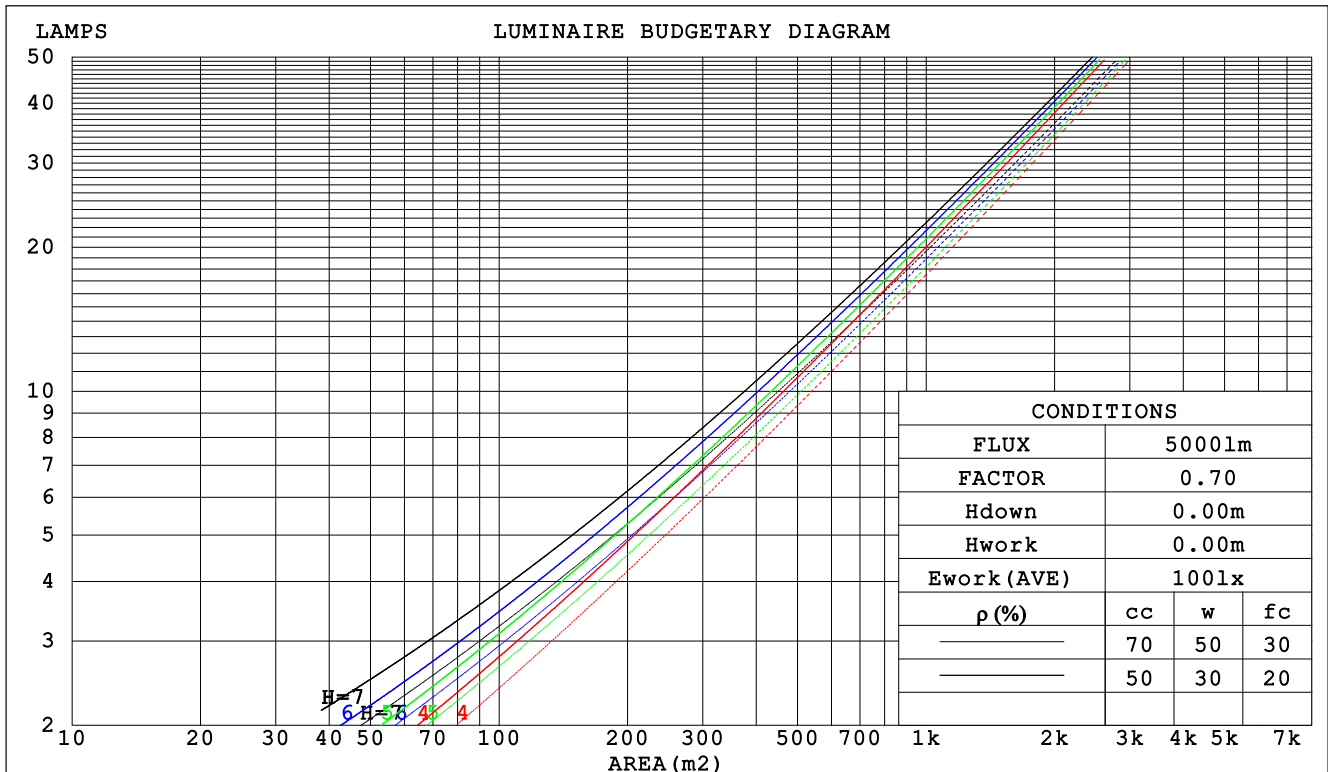
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-13

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	1.78	1.78	1.78	1.74	1.74	1.74	1.66	1.66	1.66	1.59	1.59	1.59	1.52	1.52	1.52	1.49
1.0	1.62	1.57	1.53	1.58	1.54	1.50	1.52	1.49	1.45	1.46	1.44	1.41	1.41	1.39	1.37	1.34
2.0	1.46	1.38	1.31	1.43	1.36	1.30	1.38	1.32	1.27	1.33	1.28	1.24	1.29	1.25	1.21	1.19
3.0	1.32	1.22	1.14	1.30	1.21	1.13	1.25	1.18	1.11	1.21	1.15	1.10	1.18	1.12	1.08	1.05
4.0	1.19	1.09	1.00	1.18	1.08	.00	1.14	1.05	.99	1.11	1.03	.97	1.08	1.01	.96	.93
5.0	1.09	.97	.89	1.07	.96	.89	1.04	.95	.88	1.01	.93	.87	.99	.92	.86	.83
6.0	.99	.88	.79	.98	.87	.79	.95	.86	.78	.93	.84	.78	.91	.83	.77	.75
7.0	.91	.79	.71	.90	.79	.71	.87	.78	.71	.85	.77	.70	.83	.76	.70	.67
8.0	.83	.72	.64	.82	.72	.64	.81	.71	.64	.79	.70	.64	.77	.69	.63	.61
9.0	.77	.66	.58	.76	.66	.58	.74	.65	.58	.73	.64	.58	.71	.63	.58	.55
10.0	.71	.60	.53	.70	.60	.53	.69	.60	.53	.68	.59	.53	.66	.58	.53	.50



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	.341	.194	.061	.331	.189	.060	.311	.179	.057	.293	.169	.054	.277	.161	.052		
2.0	.333	.182	.056	.324	.178	.055	.307	.171	.053	.292	.164	.051	.278	.157	.050		
3.0	.318	.170	.051	.311	.166	.050	.296	.161	.049	.283	.155	.048	.270	.150	.046		
4.0	.303	.157	.046	.296	.155	.046	.283	.150	.045	.271	.146	.044	.260	.141	.043		
5.0	.287	.146	.042	.281	.144	.042	.270	.140	.041	.259	.137	.041	.249	.133	.040		
6.0	.272	.136	.039	.266	.135	.039	.256	.131	.038	.247	.128	.038	.238	.125	.037		
7.0	.258	.127	.036	.253	.126	.036	.244	.123	.035	.235	.121	.035	.227	.118	.035		
8.0	.244	.119	.034	.240	.118	.033	.232	.116	.033	.224	.114	.033	.217	.112	.032		
9.0	.232	.112	.031	.228	.111	.031	.221	.109	.031	.214	.107	.031	.208	.105	.030		
10.0	.221	.106	.029	.217	.105	.029	.211	.103	.029	.204	.102	.029	.199	.100	.029		

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	.286	.286	.286	.245	.245	.245	.167	.167	.167	.096	.096	.096	.031	.031	.031	
1.0	.263	.236	.212	.225	.203	.182	.154	.139	.126	.088	.081	.073	.028	.026	.024	
2.0	.245	.199	.160	.210	.171	.139	.144	.119	.097	.083	.069	.057	.027	.022	.018	
3.0	.231	.172	.125	.198	.148	.108	.136	.103	.076	.079	.060	.045	.025	.020	.015	
4.0	.219	.151	.099	.188	.130	.086	.129	.091	.061	.075	.053	.036	.024	.017	.012	
5.0	.208	.135	.081	.179	.117	.070	.123	.081	.050	.071	.048	.029	.023	.016	.010	
6.0	.198	.122	.067	.170	.105	.058	.117	.074	.041	.068	.043	.025	.022	.014	.008	
7.0	.189	.111	.057	.163	.096	.049	.112	.068	.035	.065	.040	.021	.021	.013	.007	
8.0	.181	.102	.049	.156	.089	.042	.108	.062	.030	.063	.037	.018	.020	.012	.006	
9.0	.173	.095	.043	.149	.083	.037	.103	.058	.026	.060	.034	.016	.019	.011	.005	
10.0	.166	.089	.038	.143	.077	.033	.099	.054	.023	.058	.032	.014	.019	.011	.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					14.7	16.0	15.0	16.2	16.4	14.5	15.8	14.7	15.9	16.1
3H					15.3	16.5	15.6	16.7	16.9	14.9	16.1	15.2	16.3	16.5
4H					15.5	16.5	15.8	16.8	17.0	15.0	16.0	15.3	16.3	16.5
6H					15.4	16.5	15.8	16.7	17.0	14.9	15.9	15.2	16.2	16.5
8H					15.4	16.4	15.7	16.7	16.9	14.9	15.9	15.2	16.1	16.4
12H					15.4	16.3	15.7	16.6	16.9	14.8	15.8	15.2	16.1	16.3
4H 2H					14.9	16.0	15.2	16.3	16.5	14.7	15.8	15.0	16.0	16.3
3H					15.6	16.6	16.0	16.9	17.2	15.2	16.2	15.6	16.5	16.7
4H					15.8	16.6	16.2	17.0	17.3	15.3	16.2	15.7	16.5	16.8
6H					15.8	16.6	16.2	16.9	17.3	15.3	16.1	15.7	16.4	16.8
8H					15.8	16.5	16.2	16.8	17.2	15.3	16.0	15.7	16.3	16.7
12H					15.8	16.4	16.2	16.8	17.2	15.3	15.9	15.7	16.3	16.7
8H 4H					15.8	16.4	16.2	16.8	17.2	15.3	16.0	15.7	16.4	16.7
6H					15.8	16.4	16.2	16.8	17.2	15.3	15.9	15.8	16.3	16.7
8H					15.8	16.3	16.2	16.7	17.2	15.3	15.8	15.8	16.2	16.7
12H					15.8	16.2	16.2	16.6	17.1	15.3	15.7	15.7	16.1	16.6
12H 4H					15.7	16.3	16.1	16.7	17.1	15.3	15.9	15.7	16.3	16.7
6H					15.8	16.3	16.2	16.7	17.1	15.3	15.8	15.8	16.2	16.7
8H					15.8	16.2	16.2	16.6	17.1	15.3	15.7	15.7	16.1	16.6
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 / - 1.3				

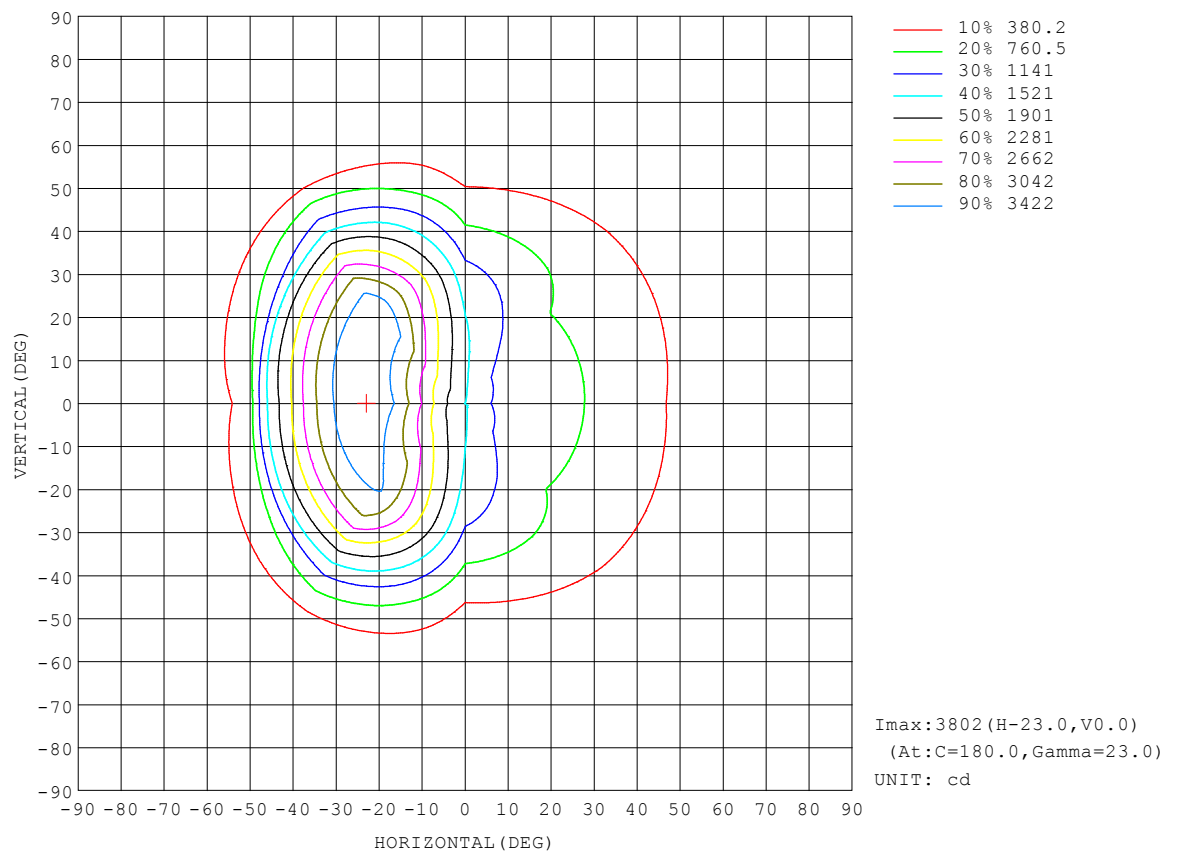
CIE Pub.117 Corrected 2618 lm Total Lamp Luminous Flux. (8log(F/F0) = 3.3)

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

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:

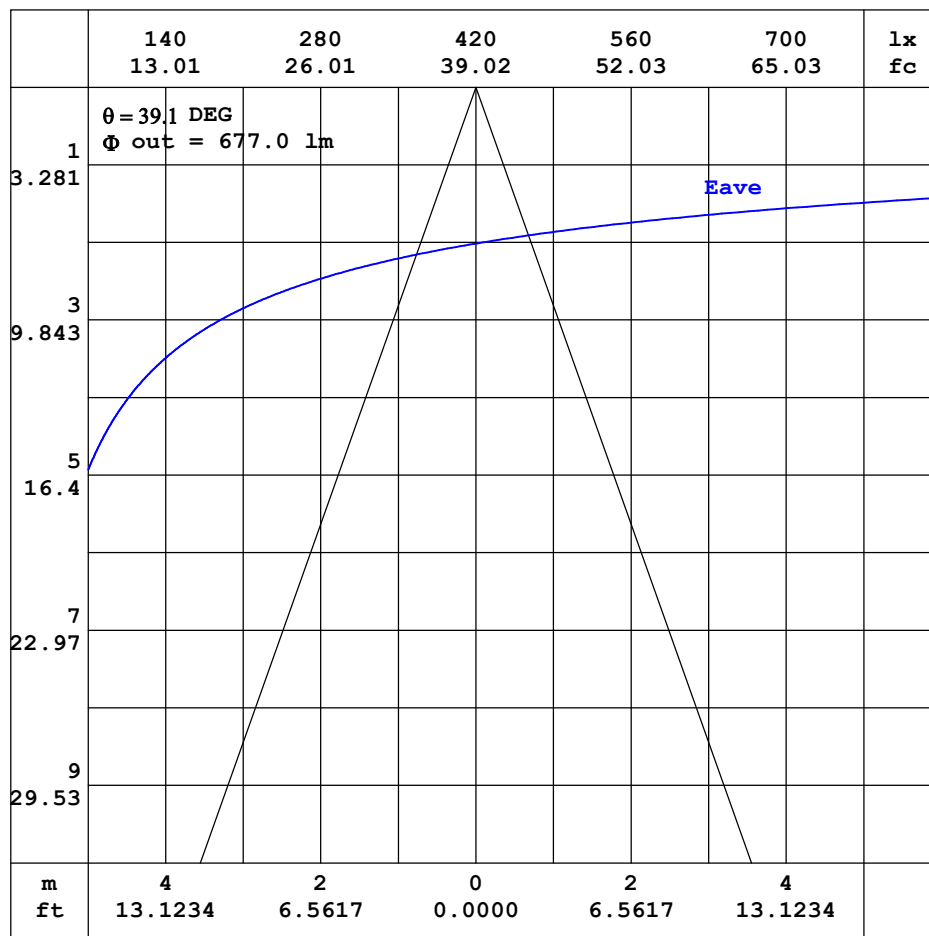


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-13

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:



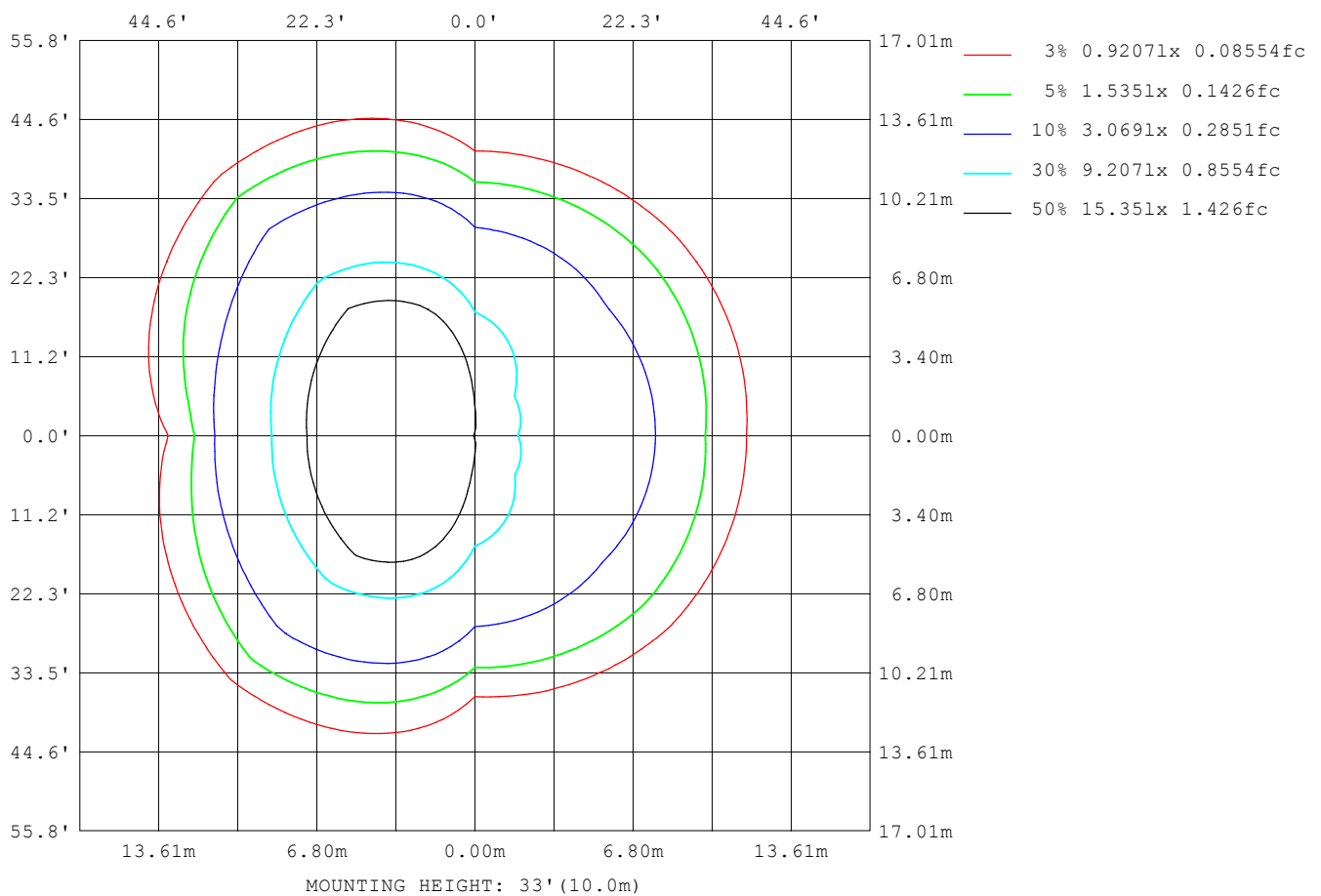
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:

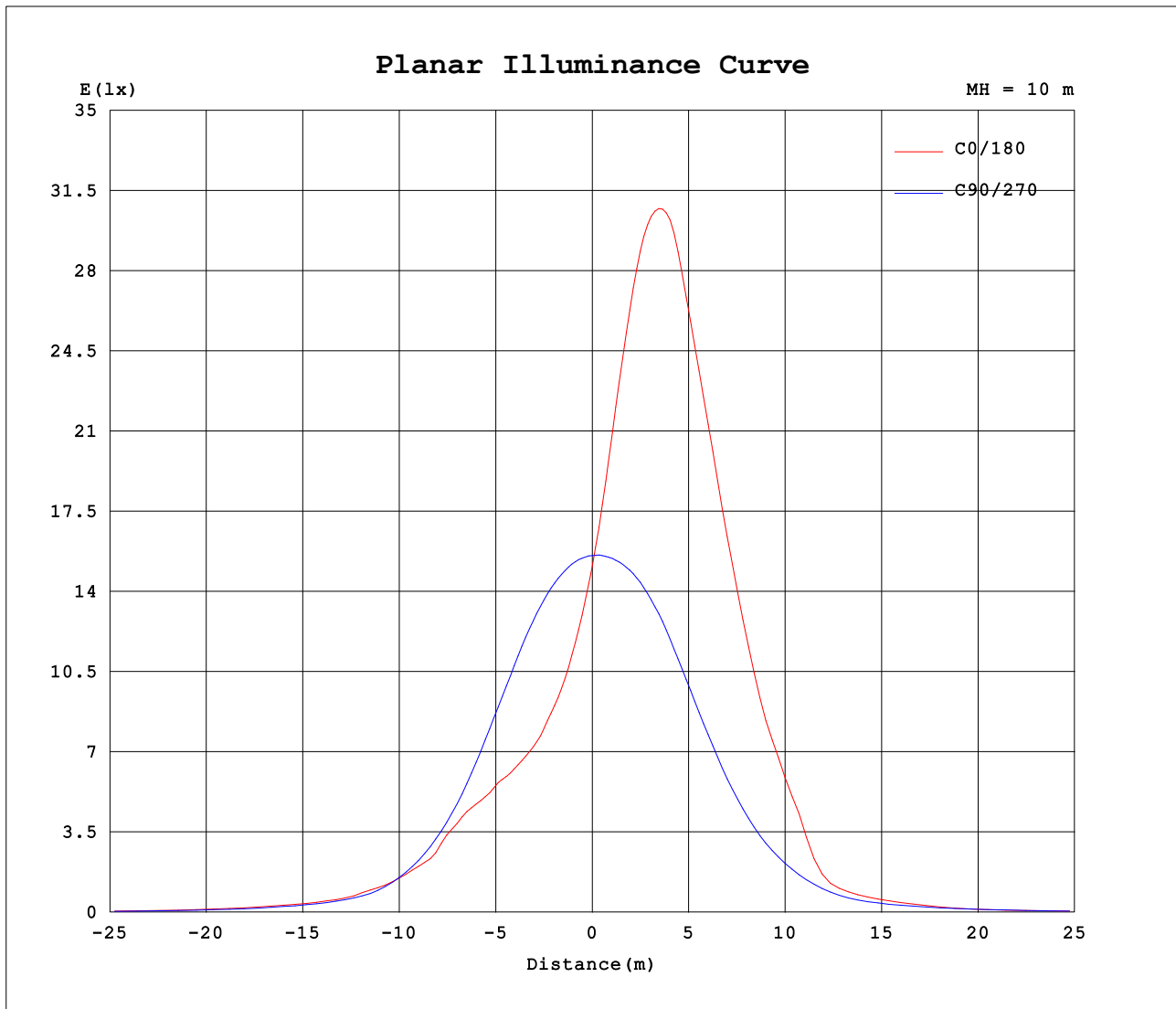
AvgL	cd/m2
L_0~180 (65) av	3136
L_0~180 (75) av	1586
L_0~180 (85) av	558
L_90~270 (65) av	2887
L_90~270 (75) av	1645
L_90~270 (85) av	538
L_45 (65) av	3178
L_45 (75) av	1580
L_45 (85) av	511

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	1511	1567	1557	1505	1511	1567	1557	1505										
5	1191	1300	1548	1829	2009	1922	1568	1267										
10	982	1110	1526	2241	2646	2370	1578	1095										
15	855	966	1483	2695	3274	2862	1571	965										
20	798	858	1399	3107	3699	3316	1530	868										
25	779	785	1265	3378	3744	3630	1426	797										
30	752	727	1084	3387	3462	3703	1269	745										
35	708	671	864	3022	2983	3354	1060	691										
40	522	582	639	2434	2327	2843	827	613										
45	423	474	430	1762	1664	2178	605	520										
50	324	330	271	1123	629	1456	394	380										
55	234	236	200	620	358	875	249	271										
60	187	167	153	227	240	327	188	192										
65	135	116	106	122	130	163	138	137										
70	82.3	69.6	64.2	68.9	80.1	87.2	93.4	89.4										
75	42.3	33.4	32.4	34.8	39.8	47.6	52.8	47.8										
80	15.2	11.6	12.2	14.4	18.3	21.0	25.1	19.5										
85	3.56	2.11	1.91	3.69	6.17	7.23	7.46	4.76										
90	0.05	0.13	0.02	0.16	0.82	1.26	0.32	0.09										
95	0.06	0.13	0.05	0.16	0.05	0.10	0.01	0.08										
100	0.09	0.16	0.10	0.16	0.06	0.09	0.03	0.08										
105	0.15	0.27	0.15	0.19	0.08	0.10	0.06	0.13										
110	0.26	0.50	0.25	0.24	0.11	0.13	0.10	0.24										
115	0.58	0.82	0.39	0.31	0.15	0.17	0.17	0.43										
120	1.00	1.20	0.60	0.39	0.21	0.22	0.29	0.68										
125	1.47	1.60	0.84	0.48	0.28	0.29	0.44	0.97										
130	1.97	1.98	1.11	0.59	0.36	0.36	0.63	1.27										
135	2.41	2.33	1.39	0.71	0.44	0.45	0.86	1.56										
140	2.77	2.63	1.60	0.84	0.53	0.56	1.11	1.87										
145	2.96	2.87	1.85	1.00	0.63	0.72	1.39	2.29										
150	3.02	3.05	2.11	1.20	0.75	0.89	1.68	2.66										
155	3.01	3.16	2.37	1.44	0.92	1.10	1.94	3.01										
160	2.91	3.19	2.55	1.72	1.13	1.36	2.20	3.27										
165	2.81	3.16	2.68	2.03	1.36	1.63	2.45	3.43										
170	2.68	3.05	2.78	2.38	1.61	1.93	2.63	3.43										
175	2.43	2.84	2.82	2.72	1.86	2.26	2.74	3.29										
180	2.14	2.56	2.79	3.05	2.13	2.55	2.79	3.04										

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: