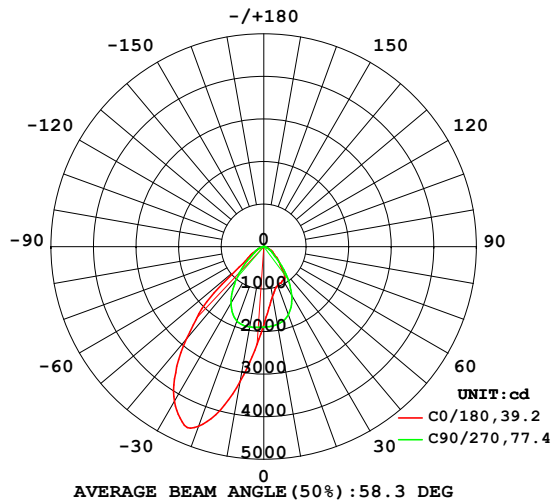


LUMINAIRE PHOTOMETRIC TEST REPORT

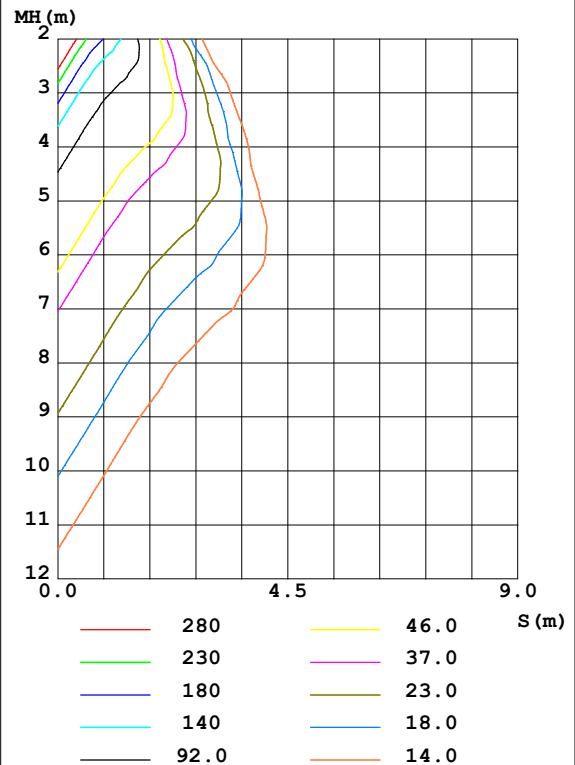
NAME: COVO light	TYPE:4000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 123.45 lm/W			
MODEL		Imax(cd)	4616	S/MH(C0/180)	0.56
NOMINAL POWER(W)	40	LOR(%)	121.5	S/MH(C90/270)	1.17
RATED VOLTAGE(V)	120.0	TOTAL FLUX(lm)	4753.0	η UP,DN(C0-180)	0.1,48.8
NOMINAL FLUX(lm)	355.601	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.1,72.6
LAMPS INSIDE	11	η up(%)	0.2	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	120.0	η down(%)	121.3	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:

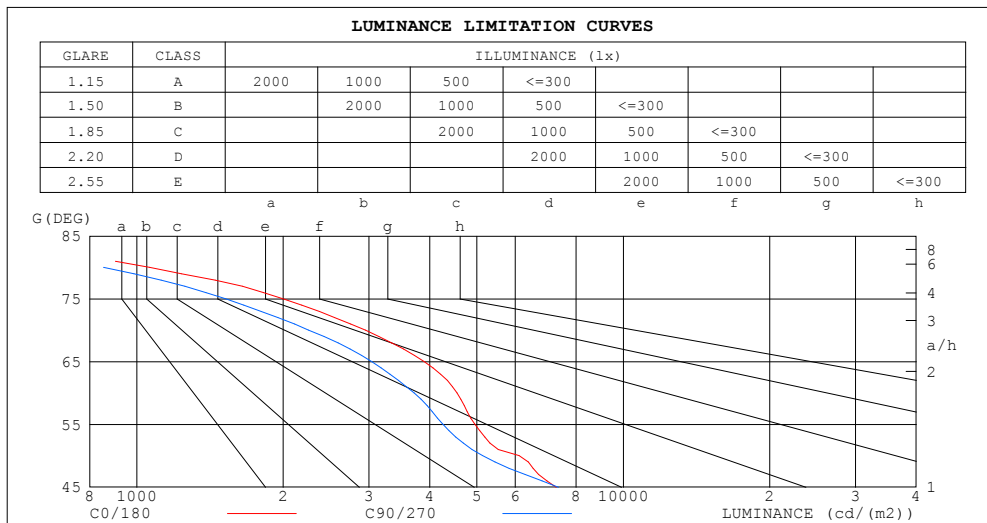
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1193	1349	1856	2725	3219	2886	1919	1332	0- 10	187.9	187.9	3.95,4.8
20	970.2	1043	1699	3779	4490	4032	1863	1055	10- 20	635.4	823.2	17.3,21
30	914.6	883.6	1316	4114	4200	4495	1545	904.0	20- 30	1100	1923	40.5,49.2
40	660.1	706.7	776.0	2955	2822	3454	1006	746.1	30- 40	1253	3175	66.8,81.2
50	392.7	400.9	330.3	1364	757.0	1769	479.0	462.5	40- 50	926.4	4102	86.3,105
60	227.7	203.3	185.8	275.4	291.5	395.3	228.1	233.7	50- 60	419.3	4521	95.1,116
70	100.9	84.87	77.09	83.78	97.16	106.2	113.5	108.2	60- 70	161.8	4683	98.5,120
80	18.45	14.13	14.85	17.51	22.16	25.43	30.51	23.66	70- 80	55.91	4739	99.7,121
90	0.0581	0.1744	0.0339	0.2034	0.9712	1.515	0.3958	0.1223	80- 90	7.890	4747	99.9,121
100	0.1161	0.1938	0.1113	0.2083	0.0920	0.1284	0.0486	0.1113	90-100	0.1448	4747	99.9,121
110	0.3144	0.5720	0.2879	0.2883	0.1502	0.1646	0.1381	0.3048	100-110	0.1959	4747	99.9,121
120	1.142	1.367	0.6944	0.4603	0.2641	0.2760	0.3588	0.8422	110-120	0.4513	4747	99.9,121
130	2.265	2.277	1.295	0.6977	0.4508	0.4527	0.7781	1.552	120-130	0.8382	4748	99.9,121
140	3.218	3.045	1.879	0.9957	0.6493	0.6875	1.355	2.283	130-140	1.153	4749	99.9,121
150	3.562	3.587	2.491	1.420	0.9110	1.075	2.023	3.172	140-150	1.268	4751	100,121
160	3.480	3.807	3.024	2.025	1.359	1.632	2.643	3.862	150-160	1.158	4752	100,121
170	3.212	3.661	3.298	2.800	1.933	2.329	3.141	4.035	160-170	0.8191	4753	100,122
180	2.562	3.068	3.332	3.579	2.560	3.078	3.328	3.577	170-180	0.2955	4753	100,122
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	506	264
80	1063	855
75	1997	1522
70	2951	2254
65	3896	3038
60	4554	3716
55	4957	4259
50	6109	5139
45	7284	7353

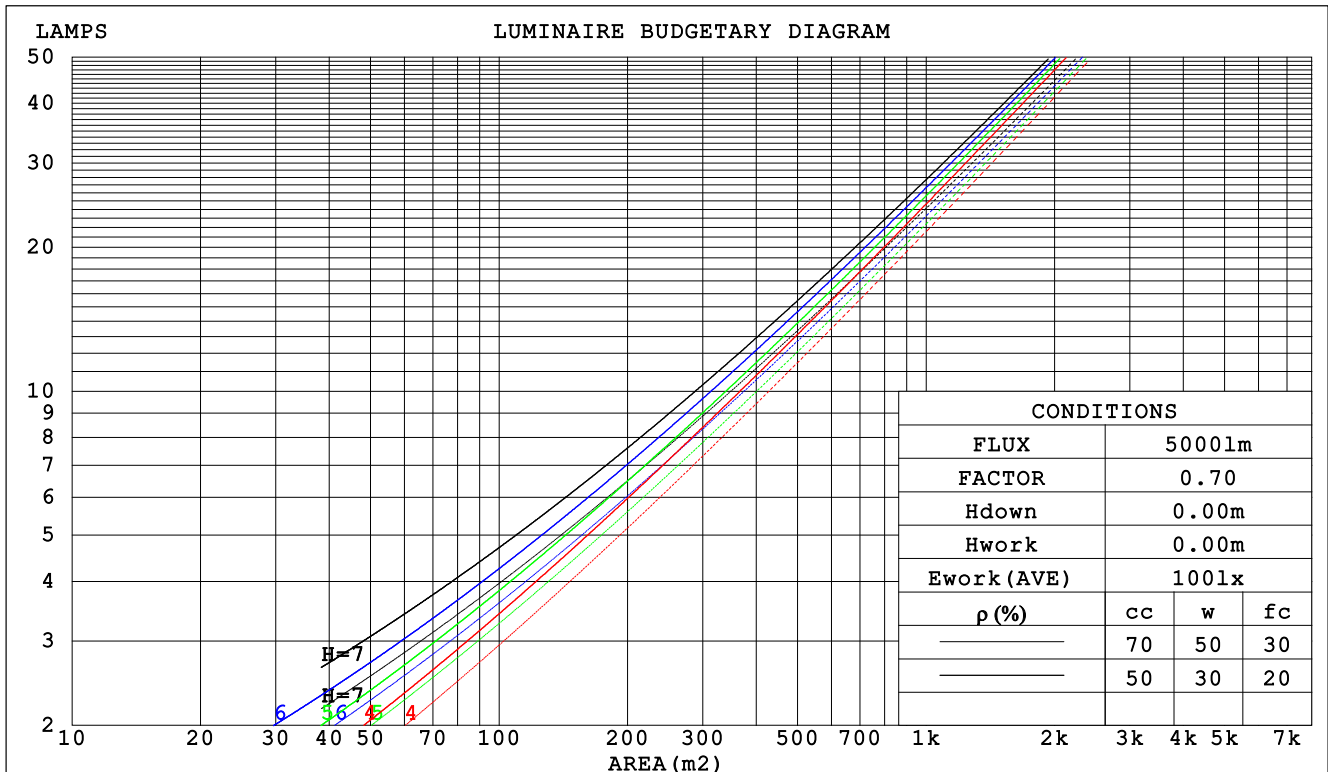
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-13

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	1.45	1.45	1.45	1.41	1.41	1.41	1.35	1.35	1.35	1.29	1.29	1.29	1.24	1.24	1.24	1.21
1.0	1.31	1.28	1.24	1.29	1.25	1.22	1.24	1.21	1.18	1.19	1.17	1.15	1.15	1.13	1.11	1.09
2.0	1.19	1.12	1.07	1.16	1.11	1.06	1.12	1.07	1.03	1.08	1.04	1.01	1.05	1.02	.99	.96
3.0	1.07	.99	.93	1.05	.98	.92	1.02	.96	.91	.99	.94	.89	.96	.91	.88	.85
4.0	.97	.88	.82	.96	.87	.81	.93	.86	.80	.90	.84	.79	.88	.82	.78	.76
5.0	.88	.79	.72	.87	.78	.72	.85	.77	.71	.82	.76	.71	.80	.74	.70	.68
6.0	.81	.71	.65	.79	.71	.64	.77	.70	.64	.76	.69	.63	.74	.68	.63	.61
7.0	.74	.64	.58	.73	.64	.58	.71	.63	.57	.69	.62	.57	.68	.62	.57	.55
8.0	.68	.59	.52	.67	.58	.52	.65	.58	.52	.64	.57	.52	.63	.56	.51	.49
9.0	.63	.54	.48	.62	.53	.47	.61	.53	.47	.59	.52	.47	.58	.52	.47	.45
10.0	.58	.49	.43	.57	.49	.43	.56	.48	.43	.55	.48	.43	.54	.48	.43	.41



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	.277	.158	.050	.269	.153	.049	.253	.145	.046	.239	.138	.044	.225	.131	.042		
2.0	.271	.148	.046	.263	.145	.045	.250	.139	.043	.237	.133	.042	.226	.128	.040		
3.0	.259	.138	.041	.253	.135	.041	.241	.131	.040	.230	.126	.039	.220	.122	.038		
4.0	.246	.128	.038	.241	.126	.037	.230	.122	.036	.220	.118	.036	.211	.115	.035		
5.0	.233	.119	.034	.228	.117	.034	.219	.114	.034	.211	.111	.033	.203	.108	.033		
6.0	.221	.111	.032	.217	.109	.031	.208	.107	.031	.201	.104	.031	.194	.102	.030		
7.0	.209	.104	.029	.206	.102	.029	.198	.100	.029	.191	.098	.029	.185	.096	.028		
8.0	.199	.097	.027	.195	.096	.027	.189	.094	.027	.182	.092	.027	.177	.091	.026		
9.0	.189	.091	.025	.186	.090	.025	.180	.089	.025	.174	.087	.025	.169	.086	.025		
10.0	.180	.086	.024	.177	.085	.024	.171	.084	.024	.166	.083	.023	.161	.081	.023		

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	.233	.233	.233	.199	.199	.199	.136	.136	.136	.078	.078	.078	.025	.025	.025	
1.0	.213	.192	.172	.183	.165	.148	.125	.113	.103	.072	.066	.060	.023	.021	.019	
2.0	.199	.162	.130	.171	.139	.113	.117	.096	.079	.067	.056	.046	.022	.018	.015	
3.0	.188	.140	.101	.161	.120	.088	.111	.084	.062	.064	.049	.036	.021	.016	.012	
4.0	.178	.123	.081	.153	.106	.070	.105	.074	.049	.061	.043	.029	.020	.014	.010	
5.0	.169	.109	.066	.145	.095	.057	.100	.066	.040	.058	.039	.024	.019	.013	.008	
6.0	.161	.099	.054	.138	.086	.047	.095	.060	.034	.055	.035	.020	.018	.012	.007	
7.0	.154	.090	.046	.132	.078	.040	.091	.055	.028	.053	.032	.017	.017	.011	.006	
8.0	.147	.083	.040	.126	.072	.035	.087	.051	.024	.051	.030	.015	.016	.010	.005	
9.0	.141	.077	.035	.121	.067	.030	.084	.047	.021	.049	.028	.013	.016	.009	.004	
10.0	.135	.072	.031	.116	.063	.027	.080	.044	.019	.047	.026	.011	.015	.009	.004	

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					15.4	16.7	15.7	16.9	17.1	15.2	16.4	15.4	16.6	16.8
3H					16.0	17.2	16.3	17.4	17.6	15.6	16.7	15.9	17.0	17.2
4H					16.1	17.2	16.4	17.5	17.7	15.6	16.7	15.9	17.0	17.2
6H					16.1	17.2	16.5	17.4	17.7	15.6	16.6	15.9	16.9	17.1
8H					16.1	17.1	16.4	17.3	17.6	15.6	16.5	15.9	16.8	17.1
12H					16.1	17.0	16.4	17.3	17.6	15.5	16.5	15.9	16.7	17.0
4H 2H					15.6	16.7	15.9	16.9	17.2	15.4	16.5	15.7	16.7	17.0
3H					16.3	17.3	16.7	17.6	17.8	15.9	16.9	16.3	17.1	17.4
4H					16.5	17.3	16.9	17.7	18.0	16.0	16.9	16.4	17.2	17.5
6H					16.5	17.3	16.9	17.6	18.0	16.0	16.8	16.4	17.1	17.5
8H					16.5	17.2	16.9	17.5	17.9	16.0	16.7	16.4	17.0	17.4
12H					16.5	17.1	16.9	17.5	17.9	15.9	16.6	16.4	16.9	17.3
8H 4H					16.5	17.1	16.9	17.5	17.9	16.0	16.7	16.4	17.0	17.4
6H					16.5	17.1	16.9	17.5	17.9	16.0	16.6	16.5	17.0	17.4
8H					16.5	17.0	16.9	17.4	17.8	16.0	16.5	16.4	16.9	17.4
12H					16.4	16.9	16.9	17.3	17.8	16.0	16.4	16.4	16.8	17.3
12H 4H					16.4	17.0	16.8	17.4	17.8	16.0	16.6	16.4	17.0	17.4
6H					16.5	17.0	16.9	17.4	17.8	16.0	16.5	16.4	16.9	17.3
8H					16.4	16.9	16.9	17.3	17.8	16.0	16.4	16.4	16.8	17.3
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 / - 1.0					+ 1.8 / - 1.3				

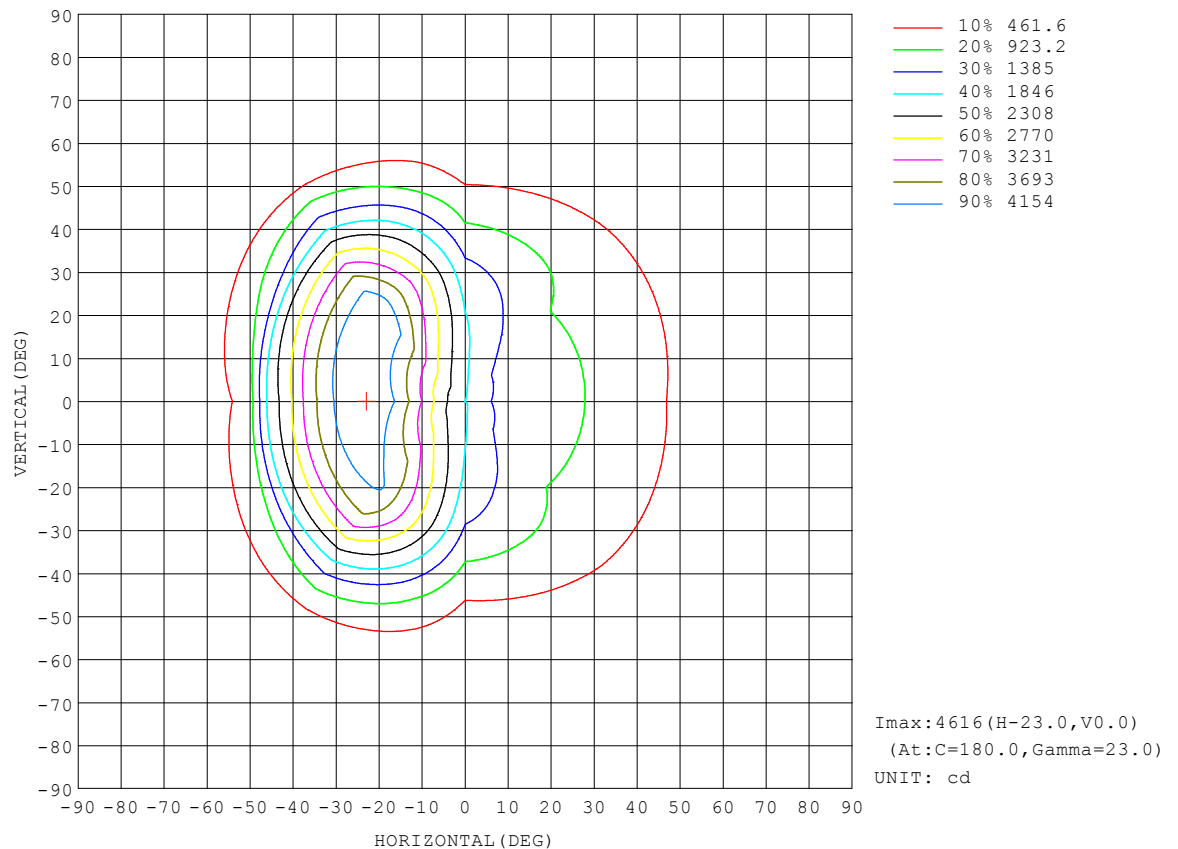
CIE Pub.117 Corrected 3912 lm Total Lamp Luminous Flux. (8log(F/F0) = 4.7)

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:

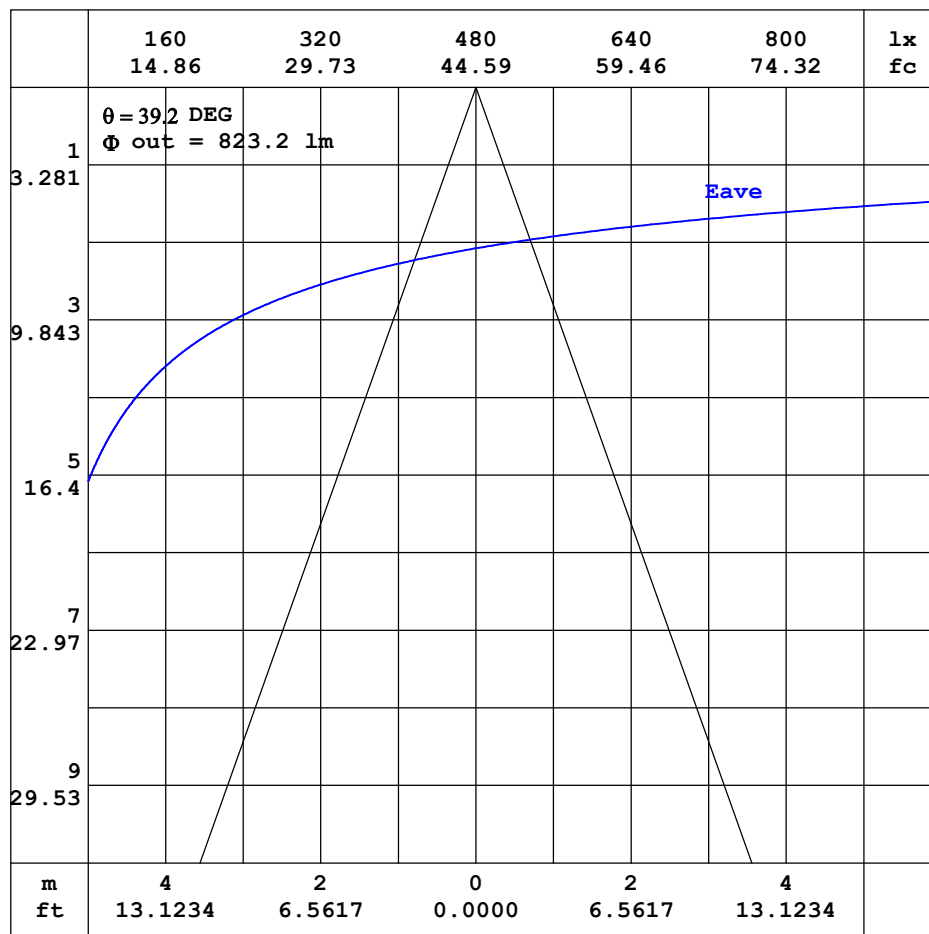


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-13

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:



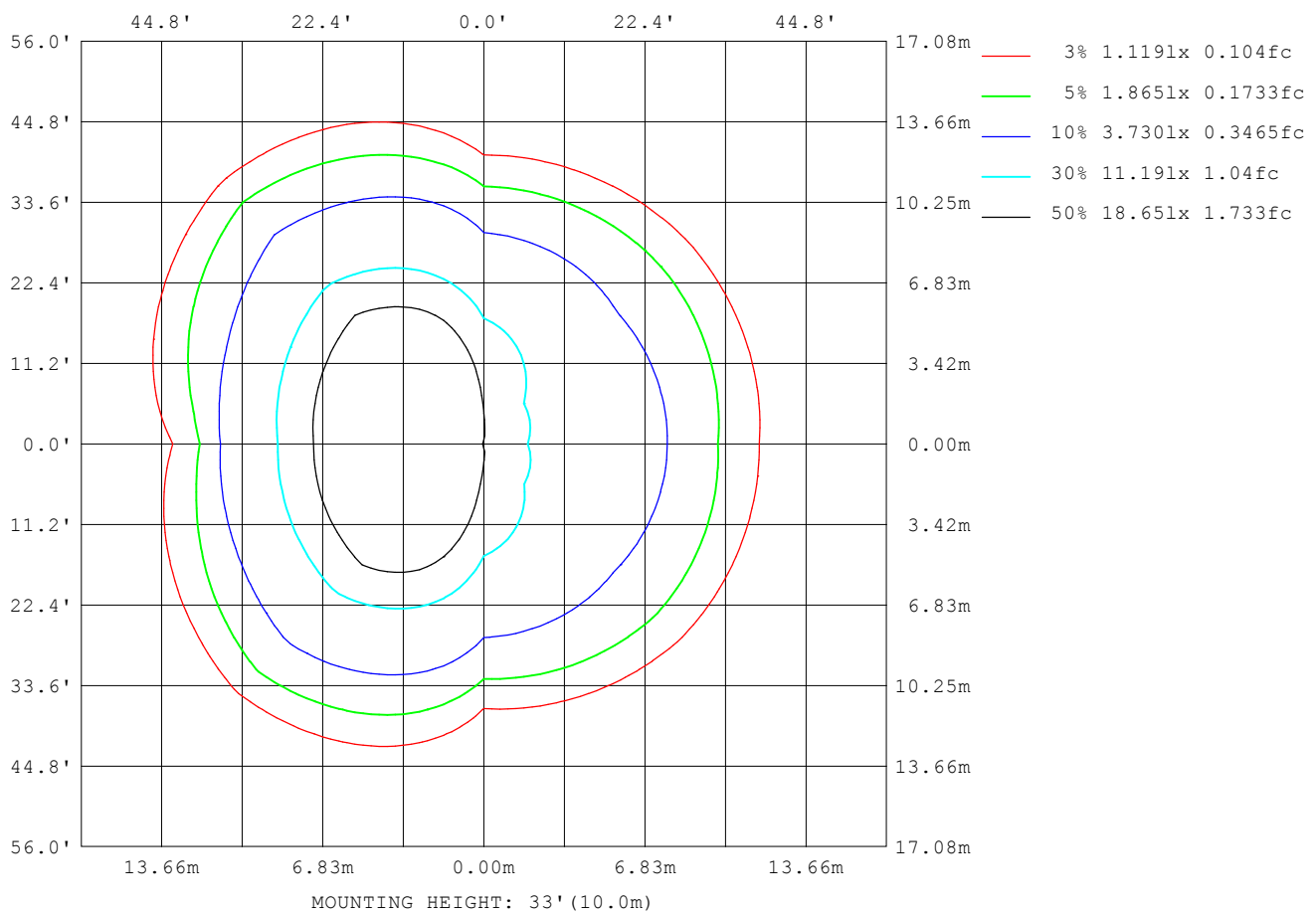
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:

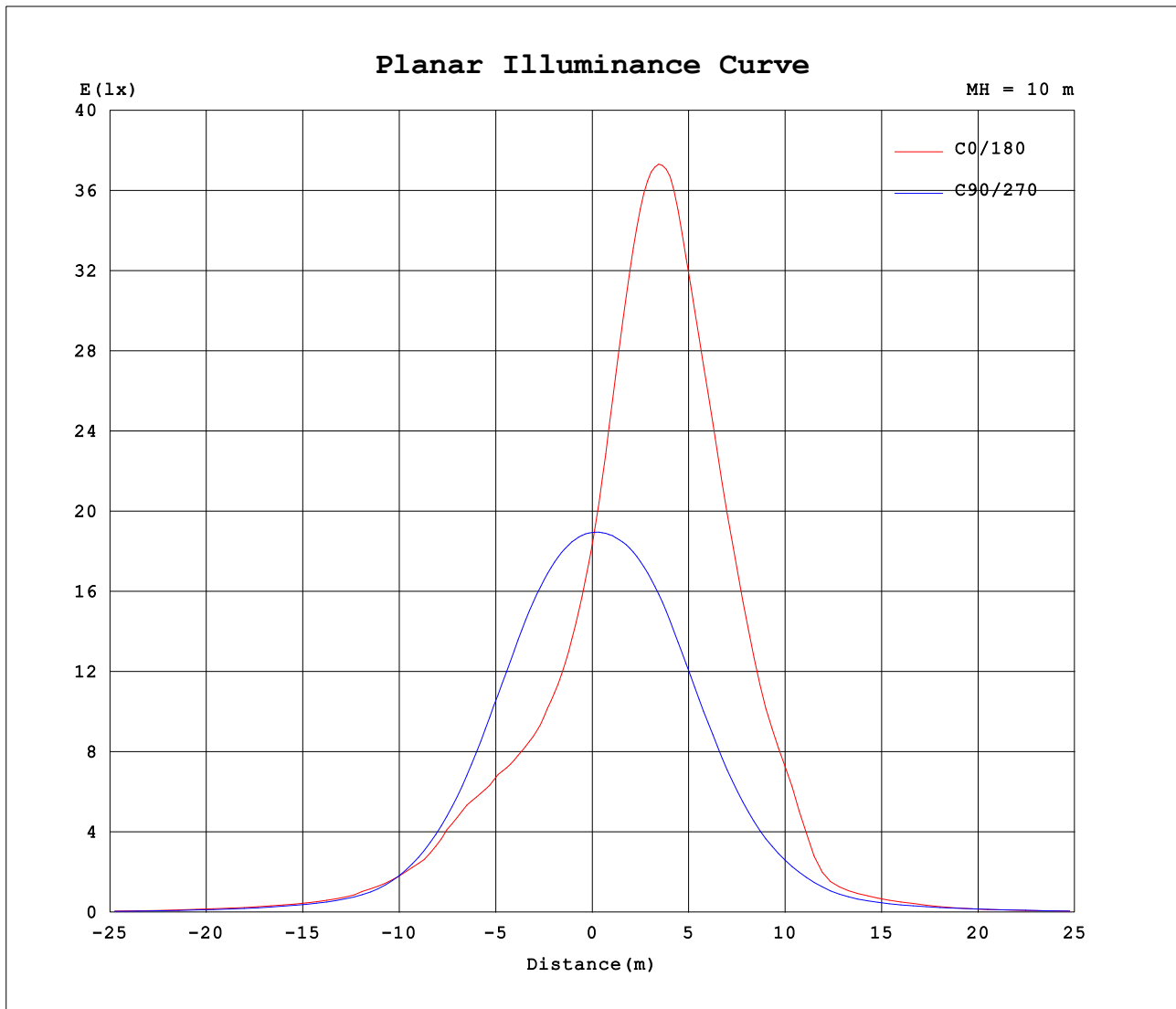
AvgL	cd/m2
L_0~180 (65) av	3840
L_0~180 (75) av	1929
L_0~180 (85) av	681
L_90~270 (65) av	3525
L_90~270 (75) av	2001
L_90~270 (85) av	653
L_45 (65) av	3876
L_45 (75) av	1920
L_45 (85) av	621

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	1836	1901	1894	1830	1836	1901	1894	1830										
5	1447	1583	1882	2225	2448	2339	1906	1541										
10	1193	1349	1856	2725	3219	2886	1919	1332										
15	1040	1174	1802	3274	3979	3484	1913	1173										
20	970	1043	1699	3779	4490	4032	1863	1055										
25	947	954	1535	4106	4546	4414	1737	968										
30	915	884	1316	4114	4200	4495	1545	904										
35	861	815	1049	3669	3617	4073	1292	842										
40	660	707	776	2955	2822	3454	1006	746										
45	515	577	520	2136	2059	2642	736	632										
50	393	401	330	1364	757	1769	479	462										
55	284	287	244	752	434	1060	303	330										
60	228	203	186	275	291	395	228	234										
65	165	142	128	150	160	197	170	166										
70	101	84.9	77.1	83.8	97.2	106	114	108										
75	51.7	40.7	39.4	42.3	48.2	57.7	64.2	58.1										
80	18.5	14.1	14.8	17.5	22.2	25.4	30.5	23.7										
85	4.41	2.60	2.30	4.50	7.46	8.74	9.09	5.79										
90	0.06	0.17	0.03	0.20	0.97	1.52	0.40	0.12										
95	0.08	0.17	0.07	0.20	0.08	0.13	0.03	0.10										
100	0.12	0.19	0.11	0.21	0.09	0.13	0.05	0.11										
105	0.19	0.32	0.18	0.23	0.12	0.14	0.09	0.17										
110	0.31	0.57	0.29	0.29	0.15	0.16	0.14	0.30										
115	0.66	0.93	0.45	0.37	0.20	0.22	0.22	0.54										
120	1.14	1.37	0.69	0.46	0.26	0.28	0.36	0.84										
125	1.67	1.83	0.97	0.57	0.35	0.35	0.54	1.18										
130	2.27	2.28	1.29	0.70	0.45	0.45	0.78	1.55										
135	2.77	2.68	1.63	0.83	0.54	0.56	1.05	1.91										
140	3.22	3.04	1.88	1.00	0.65	0.69	1.35	2.28										
145	3.46	3.35	2.19	1.19	0.78	0.87	1.69	2.77										
150	3.56	3.59	2.49	1.42	0.91	1.07	2.02	3.17										
155	3.58	3.74	2.81	1.71	1.10	1.33	2.34	3.57										
160	3.48	3.81	3.02	2.03	1.36	1.63	2.64	3.86										
165	3.36	3.79	3.19	2.40	1.64	1.98	2.93	4.04										
170	3.21	3.66	3.30	2.80	1.93	2.33	3.14	4.03										
175	2.92	3.42	3.34	3.20	2.24	2.70	3.26	3.86										
180	2.56	3.07	3.33	3.58	2.56	3.08	3.33	3.58										

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: