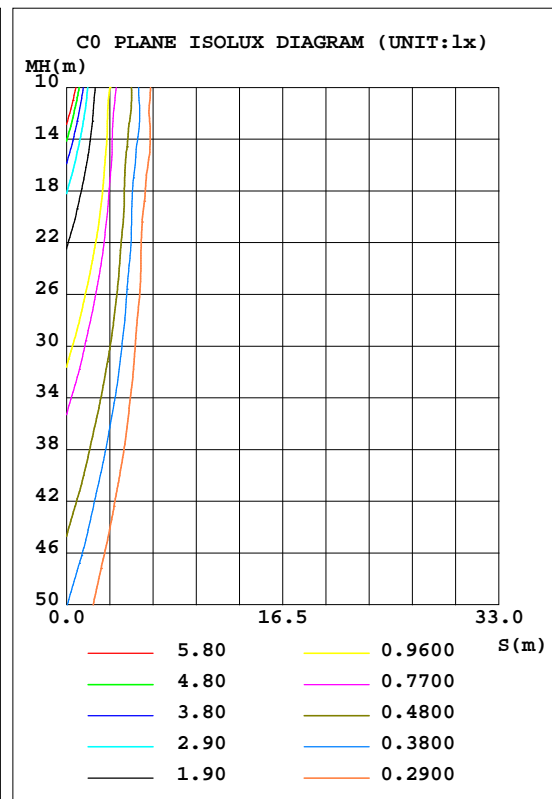
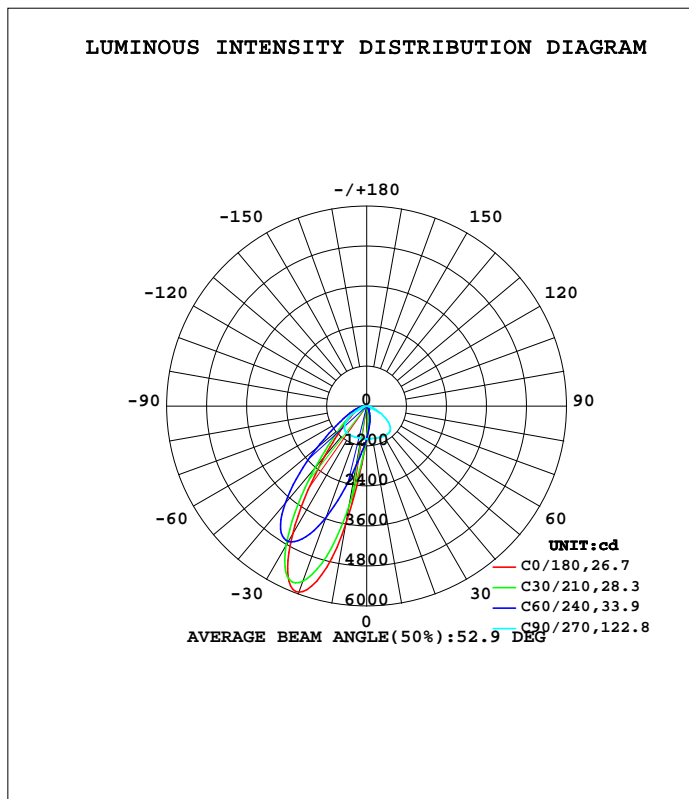


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.5V I:0.2361A P:51.40W PF:0.9874 Freq:49.99Hz Lamp Flux:4723.48x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 91.89 lm/W
MODEL	WL40120-50W-4K	I _{max} (cd)	5955	S/MH(C0/180)	1.69	
NOMINAL POWER(W)	50	LOR(%)	100.0	S/MH(C90/270)	1.57	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	4723.5	η UP,DN(C0-180)	0.5,46.5	
NOMINAL FLUX(lm)	4723.48	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.7,52.3	
LAMPS INSIDE	1	η up(%)	1.2	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	220	η down(%)	98.8	CIBSE SHR MAX	0.50	



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.361
 Humidity:65.0%
 Test Distance:7.280m [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	269.5	413.3	992.8	2435	3550	2438	983.6	409.6	0- 10	113.4	113.4	2.4,2.4
20	98.33	161.6	1012	5004	5942	4923	992.9	160.5	10- 20	552.0	665.4	14.1,14.1
30	54.08	83.79	1040	5309	4444	5137	1008	83.39	20- 30	1067	1732	36.7,36.7
40	32.98	48.03	1048	3169	1962	3036	998.8	47.68	30- 40	1132	2864	60.6,60.6
50	11.79	28.42	910.3	1391	896.4	1342	849.5	28.41	40- 50	819.8	3684	78,78
60	0.1383	8.570	564.5	719.9	479.2	690.9	521.4	9.023	50- 60	496.3	4180	88.5,88.5
70	0.1471	0.1441	254.6	365.6	271.8	352.0	241.1	0.1773	60- 70	271.6	4452	94.2,94.2
80	0.2102	0.1923	98.93	186.3	184.5	181.8	99.62	0.2221	70- 80	146.8	4599	97.4,97.4
90	0.2432	0.2614	0.2974	75.75	109.3	74.47	1.536	0.3152	80- 90	69.05	4668	98.8,98.8
100	0.3962	0.5289	0.4262	43.11	78.06	44.68	0.4688	0.5883	90-100	28.96	4697	99.4,99.4
110	0.7022	1.064	0.7413	11.89	45.86	13.35	0.7963	1.116	100-110	15.42	4712	99.8,99.8
120	1.350	1.893	1.183	0.1772	10.92	0.2673	1.265	1.954	110-120	5.221	4717	99.9,99.9
130	2.470	2.899	1.690	0.2554	0.2583	0.3452	1.778	2.864	120-130	1.226	4718	99.9,99.9
140	3.566	3.571	2.219	0.4507	0.3003	0.5193	2.313	3.450	130-140	1.356	4720	99.9,99.9
150	3.991	3.769	2.639	0.8293	0.4327	0.8735	2.793	3.513	140-150	1.387	4721	100,100
160	3.649	3.871	2.880	1.508	0.8356	1.504	3.114	3.774	150-160	1.187	4722	100,100
170	3.273	3.844	3.033	2.442	1.749	2.387	3.161	3.997	160-170	0.8174	4723	100,100
180	2.814	3.309	3.117	3.420	2.820	3.303	3.123	3.417	170-180	0.3009	4723	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm			

Conical surface Flux(90deg): 3318.8 lm

%lum = 70.3%
%lamp = 70.3%

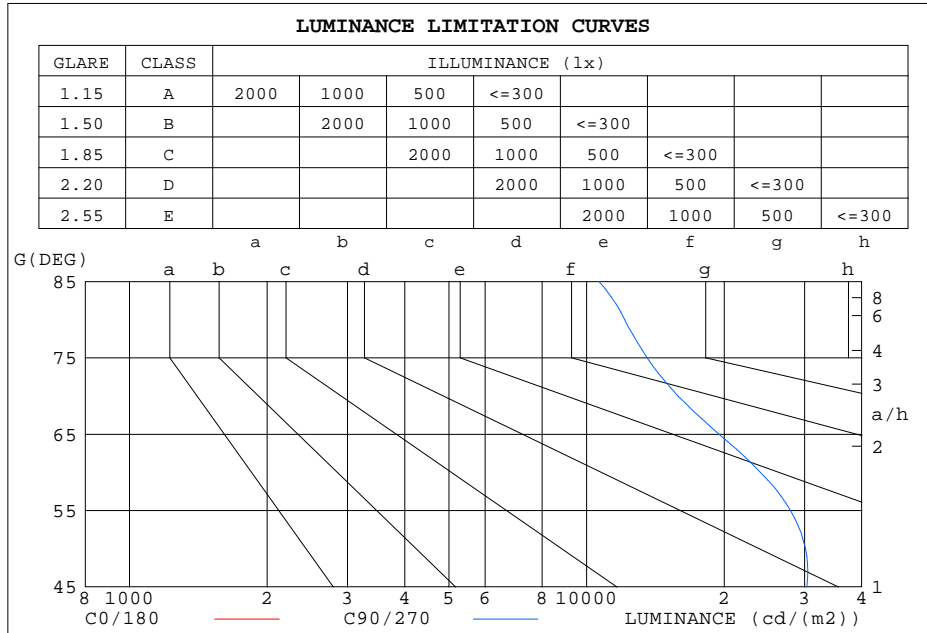
Conical surface Flux(120deg): 4180.2 lm

%lum = 88.5%
%lamp = 88.5%

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.361
Humidity:65.0%
Test Distance:7.280m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	55	10643
80	26	12122
75	15	13561
70	9	15836
65	7	19484
60	6	24023
55	56	27932
50	390	30132
45	675	30360

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date:

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.361
 Humidity: 65.0%
 Test Distance: 7.280m [K=1.0000]
 Remarks:

WEC AND CCEC

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	.261	.149	.047	.254	.145	.046	.240	.138	.044	.228	.131	.042	.216	.125	.040	
2.0	.248	.136	.042	.242	.133	.041	.230	.128	.040	.219	.123	.038	.208	.118	.037	
3.0	.233	.124	.037	.227	.122	.037	.217	.117	.036	.207	.113	.035	.198	.110	.034	
4.0	.218	.113	.033	.213	.112	.033	.204	.108	.032	.196	.105	.032	.188	.102	.031	
5.0	.205	.104	.030	.200	.103	.030	.192	.100	.029	.185	.097	.029	.177	.095	.028	
6.0	.193	.097	.028	.189	.095	.027	.181	.093	.027	.174	.091	.027	.168	.088	.026	
7.0	.181	.090	.025	.178	.089	.025	.171	.087	.025	.165	.085	.025	.159	.083	.024	
8.0	.171	.084	.024	.168	.083	.023	.162	.081	.023	.156	.079	.023	.151	.078	.023	
9.0	.162	.078	.022	.159	.077	.022	.154	.076	.022	.149	.074	.021	.144	.073	.021	
10.0	.153	.074	.020	.151	.073	.020	.146	.071	.020	.141	.070	.020	.137	.069	.020	

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	.199	.199	.199	.170	.170	.170	.116	.116	.116	.067	.067	.067	.021	.021	.021	
1.0	.186	.166	.147	.159	.142	.127	.109	.098	.088	.063	.057	.051	.020	.018	.016	
2.0	.176	.141	.112	.150	.122	.097	.103	.084	.068	.059	.049	.040	.019	.016	.013	
3.0	.167	.123	.089	.143	.106	.077	.098	.074	.054	.057	.043	.032	.018	.014	.010	
4.0	.158	.110	.072	.136	.095	.063	.094	.066	.044	.054	.039	.026	.017	.013	.009	
5.0	.151	.099	.060	.130	.086	.052	.089	.060	.037	.052	.035	.022	.017	.011	.007	
6.0	.144	.090	.051	.124	.078	.045	.086	.055	.032	.050	.032	.019	.016	.011	.006	
7.0	.138	.083	.045	.119	.072	.039	.082	.051	.028	.048	.030	.017	.015	.010	.005	
8.0	.132	.078	.040	.114	.067	.035	.079	.047	.025	.046	.028	.015	.015	.009	.005	
9.0	.127	.073	.036	.109	.063	.031	.076	.044	.022	.044	.026	.013	.014	.009	.004	
10.0	.122	.068	.033	.105	.059	.029	.073	.042	.020	.042	.025	.012	.014	.008	.004	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.361
 Humidity:65.0%
 Test Distance:7.280m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

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	-9.7	-8.3	-9.4	-8.1	-7.9	11.4	12.8	11.7	13.0	13.2
3H	-9.9	-8.6	-9.6	-8.4	-8.2	12.8	14.0	13.1	14.3	14.5
4H	-10.0	-8.8	-9.7	-8.6	-8.3	13.4	14.5	13.7	14.8	15.1
6H	-10.1	-9.0	-9.7	-8.7	-8.4	13.9	15.0	14.3	15.3	15.6
8H	-10.1	-9.1	-9.8	-8.8	-8.5	14.2	15.2	14.5	15.5	15.8
12H	-10.2	-9.2	-9.8	-8.9	-8.5	14.4	15.4	14.7	15.7	16.0
4H 2H	-8.9	-7.7	-8.5	-7.4	-7.2	11.1	12.3	11.4	12.5	12.8
3H	-9.1	-8.1	-8.7	-7.8	-7.4	12.5	13.5	12.9	13.8	14.1
4H	-9.2	-8.3	-8.8	-7.9	-7.6	13.1	14.0	13.5	14.3	14.7
6H	-9.3	-8.5	-8.9	-8.1	-7.7	13.6	14.4	14.1	14.8	15.2
8H	-9.3	-8.6	-8.9	-8.2	-7.8	13.9	14.7	14.3	15.0	15.4
12H	-9.3	-8.7	-8.9	-8.3	-7.8	14.2	14.8	14.6	15.3	15.7
8H 4H	-9.2	-8.4	-8.7	-8.0	-7.6	12.9	13.7	13.4	14.1	14.5
6H	-9.2	-8.6	-8.8	-8.2	-7.8	13.5	14.1	14.0	14.5	15.0
8H	-9.3	-8.7	-8.8	-8.3	-7.8	13.8	14.3	14.2	14.8	15.2
12H	-9.3	-8.8	-8.8	-8.4	-7.9	14.0	14.5	14.5	15.0	15.5
12H 4H	-9.2	-8.5	-8.8	-8.1	-7.7	12.9	13.6	13.3	14.0	14.4
6H	-9.3	-8.7	-8.8	-8.3	-7.8	13.5	14.0	13.9	14.4	14.9
8H	-9.3	-8.9	-8.8	-8.4	-7.9	13.7	14.2	14.2	14.7	15.2
Variations with the observer position at spacings:										
S = 1.0H	+ 2.5 / -12.2					+ 2.7 / - 3.4				
1.5H	+ 1.6 / - 4.0					+ 4.7 / - 6.0				
2.0H	+ 3.9 / -15.4					+ 5.8 / - 8.7				

CIE Pub.117, 4723 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 5.4)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.361
 Humidity:65.0%
 Test Distance:7.280m [K=1.0000]
 Remarks:

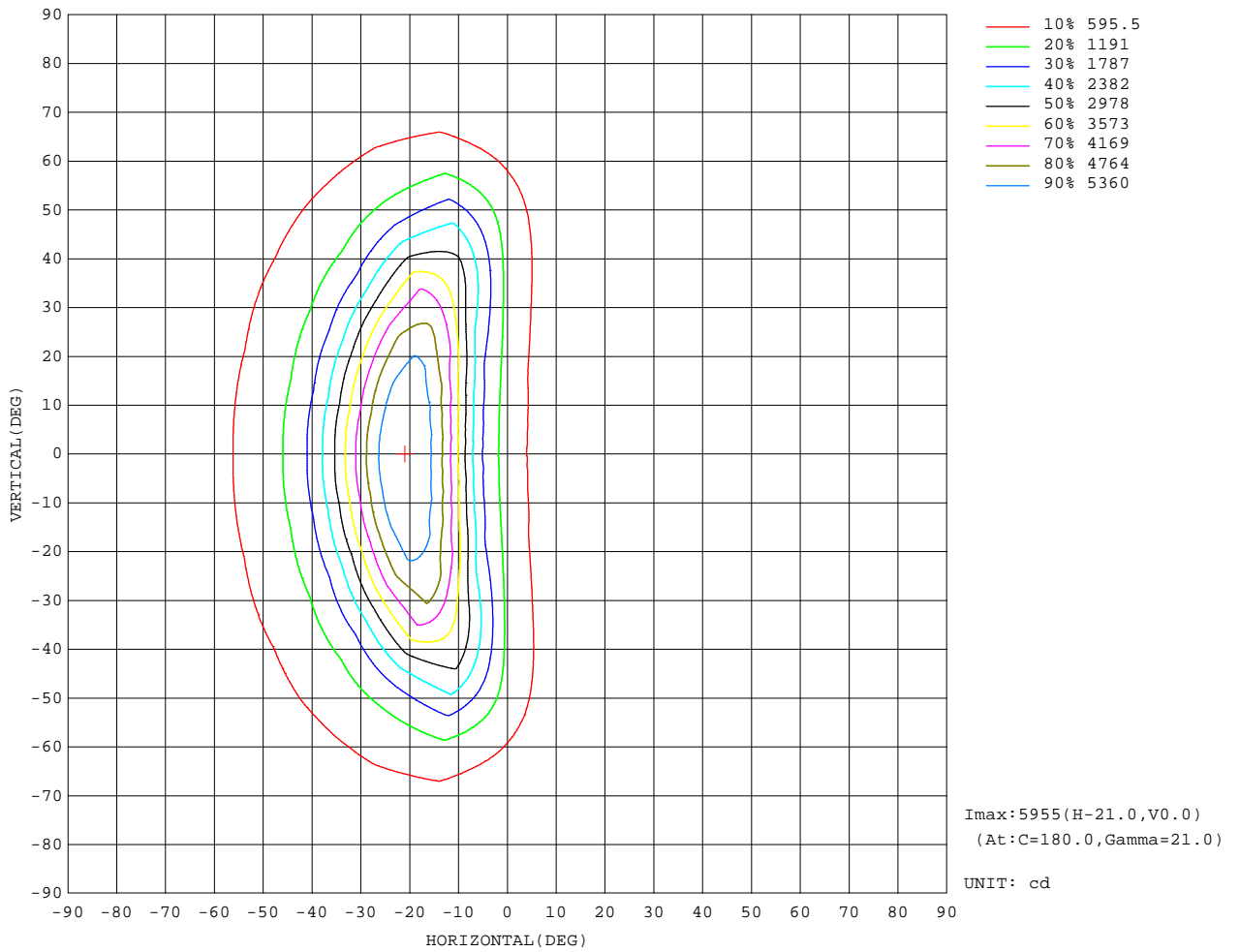
UTILIZATION FACTORS TABLE

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	67	57	51	66	57	51	65	56	51	45
0.80	77	67	61	76	66	61	74	66	60	54
1.00	84	75	69	83	74	69	81	75	68	62
1.25	90	82	76	89	81	76	87	80	75	69
1.50	95	87	81	93	86	80	90	84	79	73
2.00	100	93	88	98	92	87	95	90	86	79
2.50	103	97	92	101	95	91	97	93	89	81
3.00	106	100	95	103	98	94	100	95	92	84
4.00	109	104	100	106	102	99	102	99	96	87
5.00	111	107	103	108	105	102	104	101	98	89
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date:

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.361
 Humidity: 65.0%
 Test Distance: 7.280m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

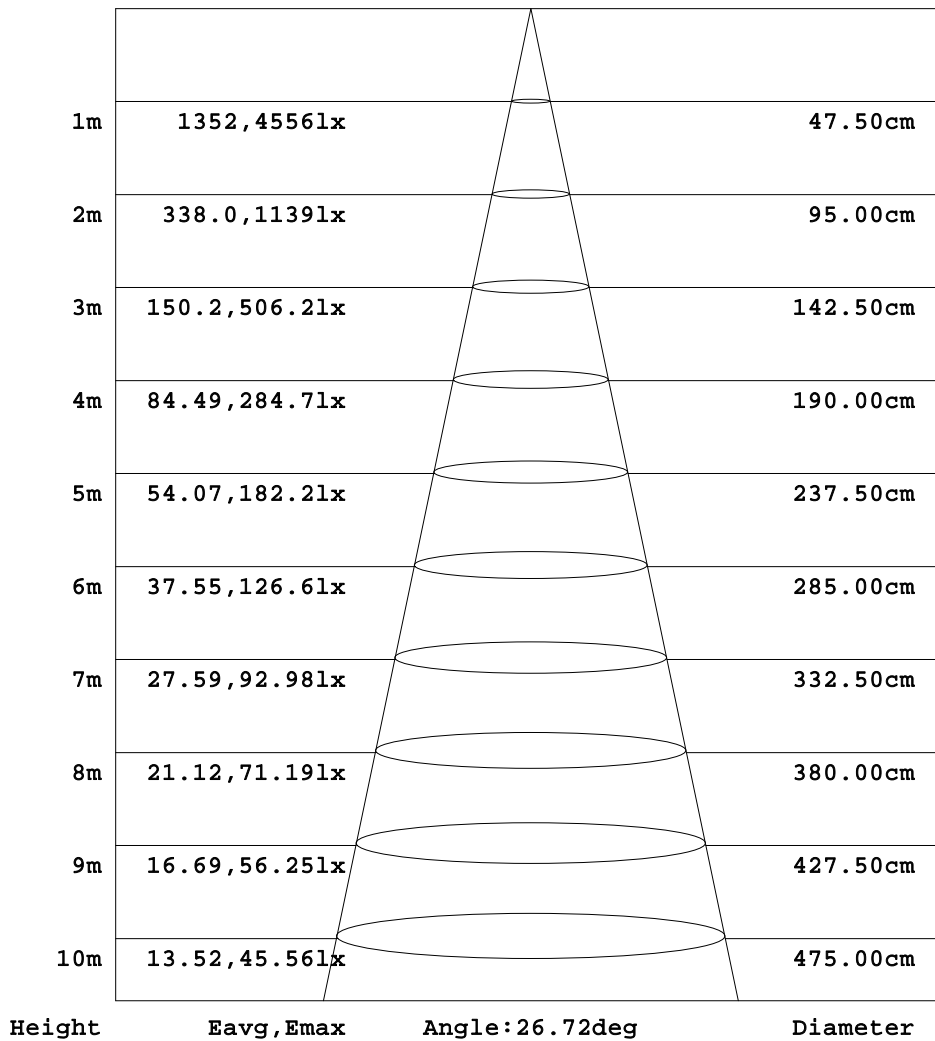


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.361
Humidity: 65.0%
Test Distance: 7.280m [K=1.0000]
Remarks:

AAI Figure

Flux out:264.0 lm

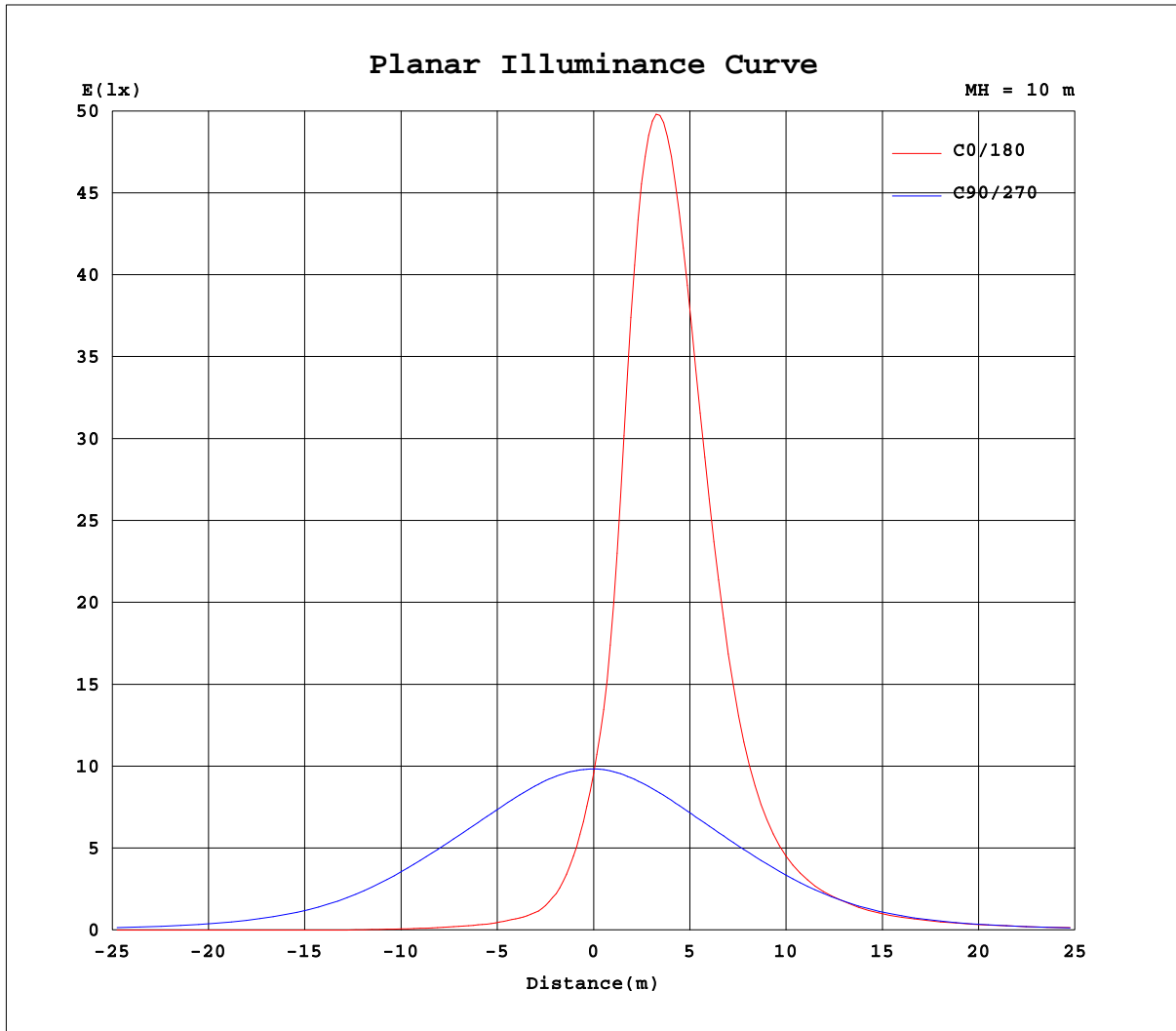


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.361
 Humidity:65.0%
 Test Distance:7.280m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date:

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.361
 Humidity: 65.0%
 Test Distance: 7.280m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	960	975	970	982	977	984	985	982	983	973	978	961	960	975	970	982	977	984	985
5	520	540	571	640	727	849	986	1138	1309	1472	1647	1731	1762	1751	1626	1486	1299	1138	984
10	270	288	327	413	536	731	993	1330	1820	2435	3084	3435	3550	3455	3010	2438	1792	1321	984
15	147	159	190	257	392	630	1002	1581	2652	3861	4723	5107	5243	5129	4662	3823	2570	1556	986
20	98.3	104	118	162	276	543	1012	1914	3672	5004	5665	5871	5942	5868	5589	4923	3533	1864	993
25	73.2	77.1	86.5	112	194	465	1026	2351	4472	5536	5726	5630	5595	5601	5636	5399	4329	2254	1000
30	54.1	55.8	64.1	83.8	132	388	1040	2824	4874	5309	4927	4546	4444	4515	4841	5137	4693	2663	1008
35	43.6	45.4	49.8	62.9	98.7	313	1051	3177	4727	4396	3631	3178	3066	3152	3591	4213	4504	2982	1012
40	33.0	34.9	39.6	48.0	74.9	242	1048	3255	4013	3169	2393	2033	1962	2020	2393	3036	3807	3019	999
45	22.4	24.5	29.4	38.2	54.2	169	1009	2990	2997	2096	1551	1327	1279	1323	1556	2025	2848	2725	951
50	11.8	14.0	19.2	28.4	40.9	118	910	2426	2039	1391	1068	927	896	920	1065	1342	1953	2183	850
55	1.51	3.62	8.91	18.6	31.2	80.2	753	1740	1352	986	778	672	644	667	771	943	1292	1557	698
60	0.14	0.16	0.31	8.57	21.5	50.6	565	1146	931	720	553	490	479	487	549	691	886	1036	521
65	0.13	0.11	0.14	0.32	11.8	30.2	387	748	665	511	403	364	357	363	402	490	630	680	360
70	0.15	0.14	0.13	0.14	2.28	19.8	255	500	480	366	289	271	272	271	289	352	459	460	241
75	0.18	0.17	0.16	0.15	0.20	9.69	165	342	328	259	225	222	225	221	225	251	317	318	160
80	0.21	0.20	0.19	0.19	0.21	0.58	98.9	228	214	186	177	181	184	179	175	182	214	219	99.6
85	0.23	0.21	0.21	0.23	0.27	0.29	43.6	116	119	127	135	144	149	141	132	121	118	120	47.7
90	0.24	0.22	0.23	0.26	0.30	0.29	0.30	21.9	49.5	75.7	93.3	104	109	103	92.3	74.5	51.6	22.1	1.54
95	0.31	0.28	0.31	0.36	0.44	0.41	0.32	10.3	34.8	57.6	74.9	87.1	93.4	88.0	77.3	59.9	36.8	10.1	0.35
100	0.40	0.36	0.42	0.53	0.63	0.59	0.43	0.31	21.4	43.1	59.6	71.3	78.1	73.3	62.6	44.7	22.7	0.42	0.47
105	0.52	0.50	0.59	0.76	0.88	0.77	0.56	0.32	6.11	26.9	45.1	56.6	61.8	57.7	47.4	28.7	8.00	0.40	0.62
110	0.70	0.69	0.85	1.06	1.17	1.00	0.74	0.42	0.23	11.9	27.0	38.7	45.9	40.2	29.9	13.4	0.44	1.24	0.80
115	0.97	0.97	1.19	1.45	1.50	1.24	0.95	0.55	0.24	0.26	11.8	22.8	29.0	23.9	13.9	0.41	0.34	0.67	1.02
120	1.35	1.39	1.64	1.89	1.84	1.48	1.18	0.72	0.31	0.18	0.19	5.99	10.9	6.91	0.34	0.27	0.40	0.83	1.26
125	1.87	1.92	2.21	2.39	2.13	1.71	1.43	0.91	0.41	0.20	0.13	0.10	0.27	0.24	0.24	0.29	0.50	1.01	1.51
130	2.47	2.53	2.83	2.90	2.36	1.94	1.69	1.10	0.53	0.26	0.14	0.09	0.26	0.23	0.25	0.35	0.62	1.22	1.78
135	3.07	3.17	3.45	3.32	2.55	2.18	1.96	1.31	0.68	0.34	0.19	0.11	0.27	0.24	0.29	0.42	0.76	1.45	2.05
140	3.57	3.77	4.00	3.57	2.73	2.41	2.22	1.52	0.87	0.45	0.26	0.14	0.30	0.26	0.35	0.52	0.94	1.65	2.31
145	3.90	4.30	4.36	3.70	2.90	2.65	2.46	1.73	1.09	0.61	0.36	0.21	0.34	0.32	0.44	0.67	1.14	1.86	2.58
150	3.99	4.66	4.48	3.77	3.12	2.91	2.64	1.96	1.36	0.83	0.53	0.33	0.43	0.39	0.58	0.87	1.40	2.06	2.79
155	3.89	4.77	4.41	3.81	3.38	3.14	2.77	2.20	1.66	1.13	0.79	0.52	0.58	0.55	0.79	1.15	1.67	2.25	2.97
160	3.65	4.65	4.26	3.87	3.60	3.33	2.88	2.44	1.99	1.51	1.16	0.87	0.84	0.83	1.12	1.50	1.98	2.46	3.11
165	3.40	4.22	4.05	3.86	3.68	3.41	2.97	2.70	2.34	1.95	1.65	1.37	1.22	1.27	1.58	1.92	2.31	2.66	3.21
170	3.27	3.94	3.96	3.84	3.65	3.42	3.03	2.93	2.70	2.44	2.21	1.98	1.75	1.82	2.12	2.39	2.65	2.85	3.16
175	3.12	3.65	3.73	3.67	3.53	3.36	3.06	3.16	3.06	2.94	2.80	2.61	2.36	2.46	2.70	2.86	2.98	3.06	3.16
180	2.81	3.10	3.27	3.31	3.29	3.24	3.12	3.35	3.41	3.42	3.37	3.20	2.82	3.09	3.28	3.30	3.29	3.24	3.12

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date:

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.361
 Humidity: 65.0%
 Test Distance: 7.280m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	982	983	973	978	961														
5	845	731	635	578	533														
10	722	537	410	333	286														
15	618	392	255	193	157														
20	529	276	160	120	103														
25	450	196	111	87.0	76.8														
30	373	133	83.4	64.9	55.5														
35	299	99.6	62.6	49.9	45.1														
40	229	75.4	47.7	39.9	34.7														
45	159	55.4	38.1	29.8	24.4														
50	114	41.2	28.4	19.8	14.0														
55	78.1	31.8	18.7	9.67	3.77														
60	50.3	22.3	9.02	0.50	0.18														
65	30.2	12.8	0.42	0.17	0.15														
70	20.1	3.46	0.18	0.16	0.17														
75	10.2	0.25	0.18	0.18	0.20														
80	1.00	0.24	0.22	0.22	0.23														
85	0.32	0.32	0.26	0.24	0.24														
90	0.36	0.35	0.32	0.28	0.27														
95	0.47	0.50	0.43	0.37	0.33														
100	0.65	0.70	0.59	0.48	0.42														
105	0.84	0.95	0.81	0.63	0.54														
110	1.07	1.26	1.12	0.85	0.72														
115	1.32	1.59	1.52	1.16	0.98														
120	1.56	1.93	1.95	1.58	1.35														
125	1.79	2.25	2.42	2.11	1.85														
130	2.01	2.44	2.86	2.72	2.46														
135	2.25	2.56	3.23	3.36	3.09														
140	2.51	2.65	3.45	3.93	3.75														
145	2.78	2.82	3.51	4.26	4.32														
150	3.06	3.08	3.51	4.33	4.74														
155	3.30	3.38	3.59	4.25	4.83														
160	3.47	3.65	3.77	4.18	4.70														
165	3.55	3.82	3.98	4.14	4.40														
170	3.56	3.82	4.00	4.06	3.98														
175	3.49	3.68	3.81	3.85	3.70														
180	3.35	3.40	3.42	3.37	3.19														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.361
 Humidity:65.0%
 Test Distance:7.280m [K=1.0000]
 Remarks: