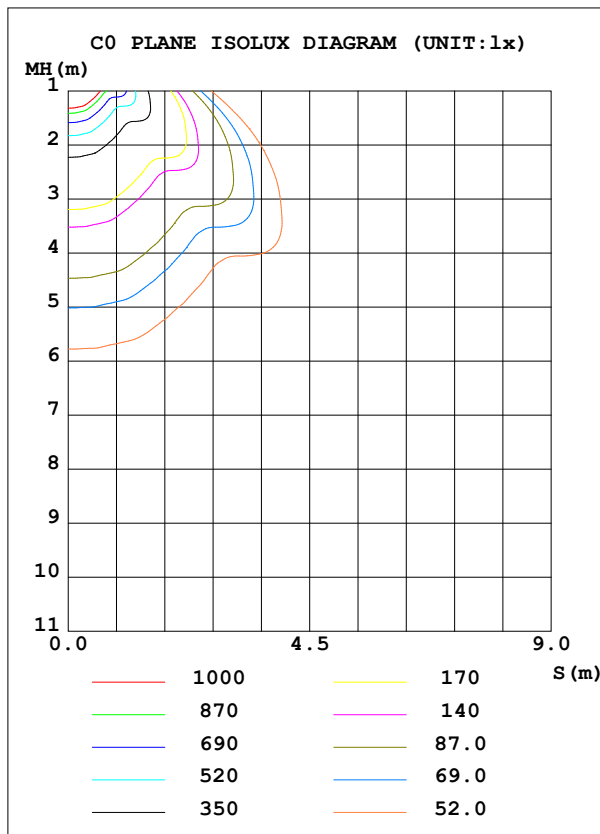
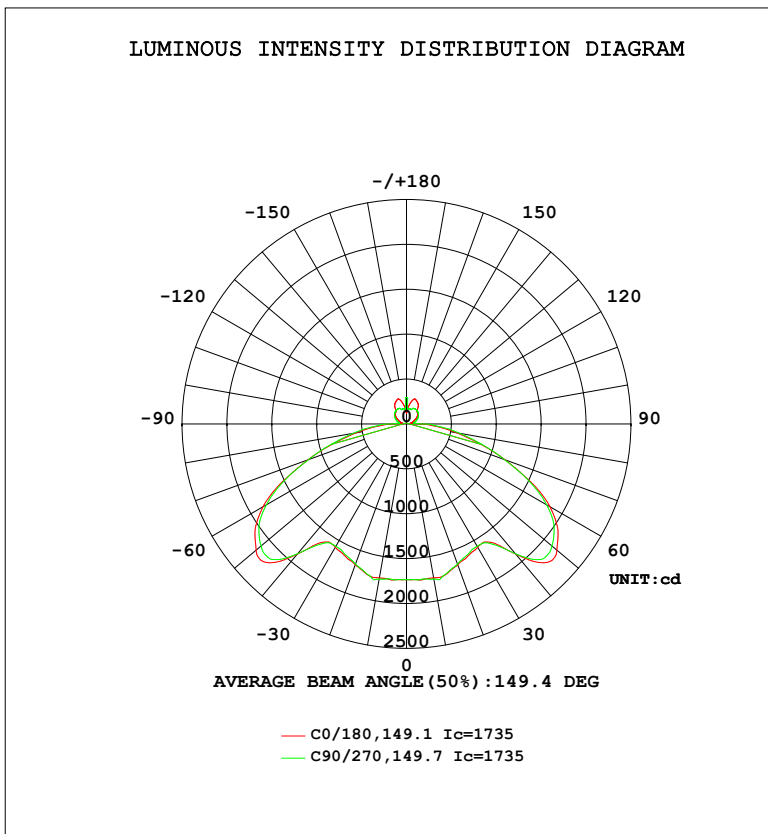


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.503A P:60.0W PF:0.995 Freq:50.00Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:9422.43x1 lm		
NAME: CP10-060-5070-A00C09	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 157.04 lm/W			
MODEL	/	I _{max} (cd)	2222	S/MH (C0/180)	1.45
NOMINAL POWER (W)	/	LOR (%)	100.0	S/MH (C90/270)	1.52
RATED VOLTAGE (V)	/	TOTAL FLUX (lm)	9422.4	η UP, DN (C0-180)	4.4, 45.6
NOMINAL FLUX (lm)	9422.43	CIE CLASS	DIRECT	η UP, DN (C180-360)	4.4, 45.6
LAMPS INSIDE	1	η up (%)	8.9	CIBSE SHR NOM	1.75
TEST VOLTAGE (V)	/	η down (%)	91.1	CIBSE SHR MAX	1.75



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: ZZX
 Test Date: 2023-08-10

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.465
 Humidity: 65.0%
 Test Distance: 26.000m [K=0.4559]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1741	1756	1754	1756	1741	1756	1754	1756	0- 10	166.5	166.5	1.77,1.77
20	1670	1665	1661	1665	1670	1665	1661	1665	10- 20	484.6	651.0	6.91,6.91
30	1585	1597	1574	1597	1585	1597	1574	1597	20- 30	748.1	1399	14.8,14.8
40	1893	1889	1887	1889	1893	1889	1887	1889	30- 40	1046	2445	25.9,25.9
50	2186	2065	2113	2065	2186	2065	2113	2065	40- 50	1613	4058	43.1,43.1
60	1845	1727	1802	1727	1845	1727	1802	1727	50- 60	1760	5818	61.7,61.7
70	1167	1143	1161	1143	1167	1143	1161	1143	60- 70	1454	7272	77.2,77.2
80	566.8	593.2	600.7	593.2	566.8	593.2	600.7	593.2	70- 80	904.0	8176	86.8,86.8
90	149.9	177.6	166.6	177.6	149.9	177.6	166.6	177.6	80- 90	410.2	8587	91.1,91.1
100	39.58	66.11	85.09	66.11	39.58	66.11	85.09	66.11	90-100	90.34	8677	92.1,92.1
110	82.91	98.43	119.1	98.43	82.91	98.43	119.1	98.43	100-110	87.03	8764	93,93
120	125.1	127.0	150.6	127.0	125.1	127.0	150.6	127.0	110-120	114.9	8879	94.2,94.2
130	162.5	148.7	174.2	148.7	162.5	148.7	174.2	148.7	120-130	126.0	9005	95.6,95.6
140	184.2	164.0	187.3	164.0	184.2	164.0	187.3	164.0	130-140	127.3	9132	96.9,96.9
150	259.3	174.4	193.2	174.4	259.3	174.4	193.2	174.4	140-150	118.2	9250	98.2,98.2
160	291.8	182.4	174.0	182.4	291.8	182.4	174.0	182.4	150-160	95.78	9346	99.2,99.2
170	233.2	181.2	172.3	181.2	233.2	181.2	172.3	181.2	160-170	59.03	9405	99.8,99.8
180	119.4	237.1	295.1	237.1	119.4	237.1	295.1	237.1	170-180	17.39	9422	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 3195.1 lm

%lum = 33.9%

%lamp = 33.9%

Conical surface Flux(120deg): 5818.2 lm

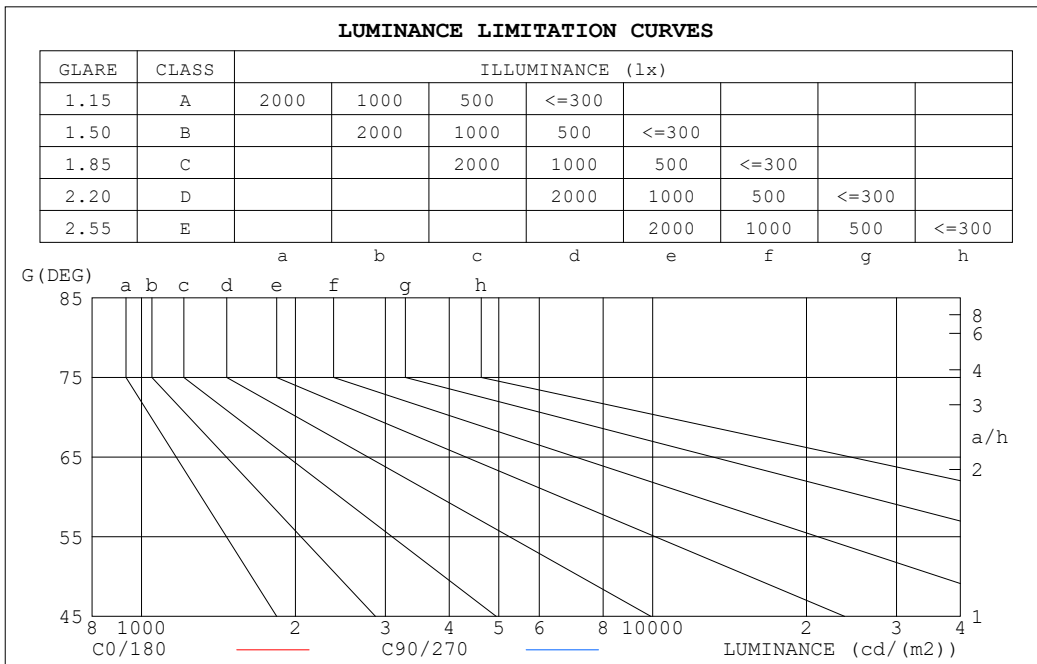
%lum = 61.7%

%lamp = 61.7%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:ZZX
 Test Date:2023-08-10

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.465
 Humidity:65.0%
 Test Distance:26.000m [K=0.4559]
 Remarks:

LUMINANCE LIMITATION CURVES



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	66473	75756
80	56184	59503
75	55874	57111
70	58720	58413
65	62133	61300
60	63533	62002
55	61786	60176
50	58554	56549
45	53193	51852

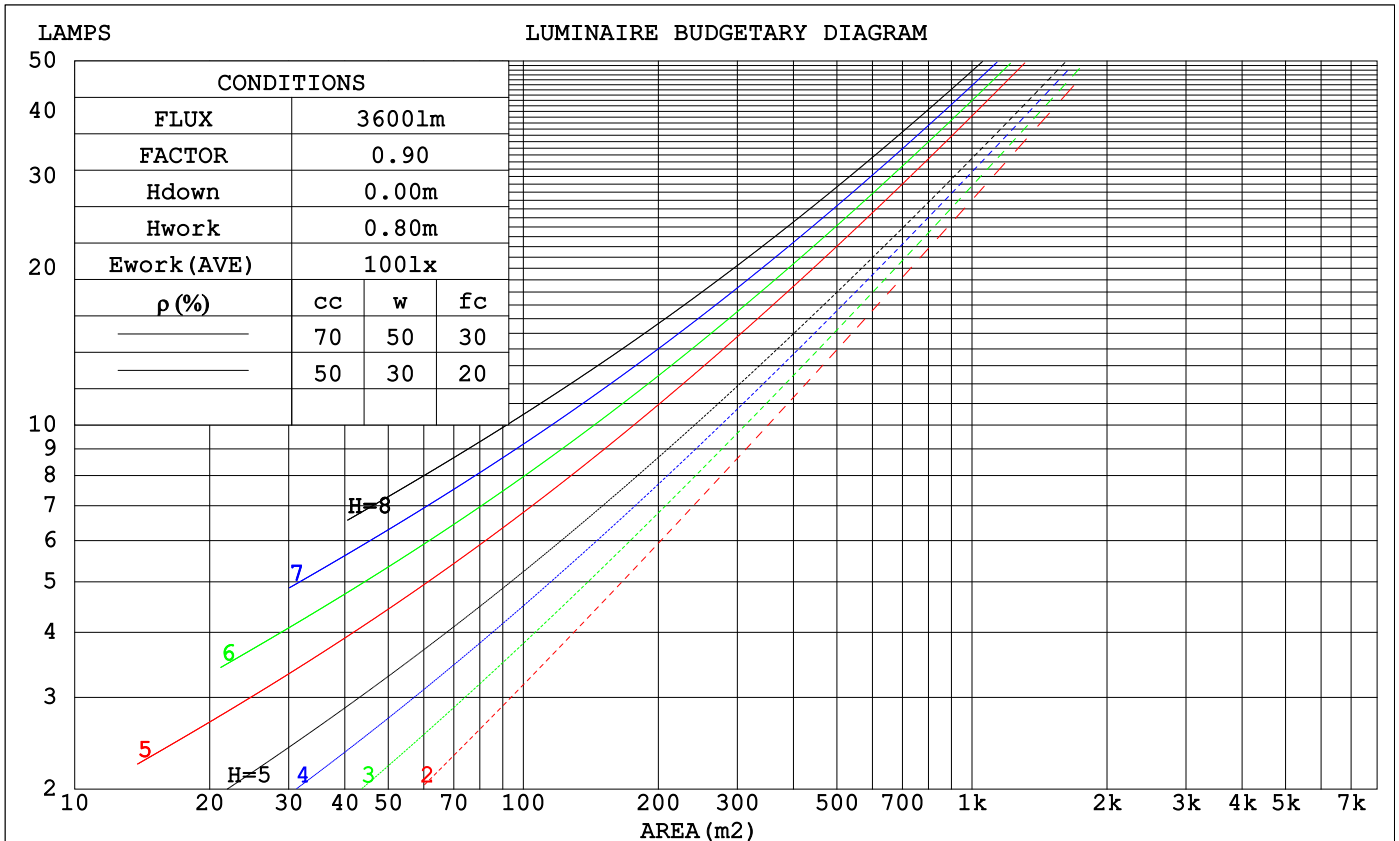
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: ZZK
 Test Date: 2023-08-10

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.465
 Humidity: 65.0%
 Test Distance: 26.000m [K=0.4559]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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	1.13	1.13	1.13	1.06	1.06	1.06	.00	.00	.00	.94	.94	.94	.91
1.0	.99	.94	.89	.95	.91	.87	.90	.86	.82	.84	.81	.78	.79	.77	.74	.71
2.0	.84	.76	.69	.81	.74	.68	.76	.70	.65	.71	.66	.62	.67	.63	.59	.56
3.0	.72	.63	.55	.70	.61	.54	.65	.58	.52	.61	.55	.50	.57	.52	.48	.45
4.0	.62	.53	.45	.60	.51	.44	.57	.49	.43	.53	.46	.41	.50	.44	.40	.37
5.0	.55	.45	.38	.53	.44	.37	.50	.42	.36	.47	.40	.34	.44	.38	.33	.31
6.0	.49	.39	.32	.47	.38	.31	.44	.36	.30	.42	.35	.29	.39	.33	.28	.26
7.0	.43	.34	.27	.42	.33	.27	.40	.32	.26	.37	.30	.25	.35	.29	.24	.22
8.0	.39	.30	.24	.38	.29	.23	.36	.28	.23	.34	.27	.22	.32	.26	.21	.19
9.0	.36	.27	.21	.35	.26	.21	.33	.25	.20	.31	.24	.19	.29	.23	.19	.17
10.0	.33	.24	.19	.32	.24	.18	.30	.23	.18	.29	.22	.17	.27	.21	.17	.15



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: ZZK
 Test Date: 2023-08-10

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.465
 Humidity: 65.0%
 Test Distance: 26.000m [K=0.4559]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.369	.210	.066	.359	.205	.065	.340	.195	.062	.323	.187	.060	.308	.178	.057	
2.0	.335	.184	.056	.326	.180	.055	.310	.172	.053	.294	.165	.052	.280	.158	.050	
3.0	.304	.162	.048	.296	.159	.048	.281	.152	.046	.267	.146	.045	.254	.141	.044	
4.0	.277	.144	.042	.269	.141	.042	.256	.136	.041	.243	.131	.039	.231	.126	.038	
5.0	.253	.129	.037	.246	.126	.037	.234	.122	.036	.222	.117	.035	.212	.113	.034	
6.0	.232	.116	.033	.226	.114	.033	.215	.110	.032	.205	.106	.031	.195	.103	.030	
7.0	.214	.106	.030	.209	.104	.030	.199	.100	.029	.189	.097	.028	.180	.094	.028	
8.0	.199	.097	.027	.194	.095	.027	.185	.092	.026	.176	.089	.026	.168	.086	.025	
9.0	.185	.089	.025	.180	.088	.025	.172	.085	.024	.164	.082	.024	.157	.080	.023	
10.0	.173	.083	.023	.169	.082	.023	.161	.079	.022	.154	.076	.022	.147	.074	.021	

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.258	.258	.258	.221	.221	.221	.151	.151	.151	.086	.086	.086	.028	.028	.028	
1.0	.253	.224	.198	.216	.192	.170	.148	.132	.118	.085	.076	.068	.027	.025	.022	
2.0	.247	.200	.161	.211	.172	.139	.145	.119	.097	.083	.069	.057	.027	.022	.019	
3.0	.240	.184	.138	.206	.158	.120	.141	.110	.084	.082	.064	.050	.026	.021	.016	
4.0	.233	.171	.124	.200	.148	.107	.137	.103	.076	.079	.060	.045	.026	.020	.015	
5.0	.226	.161	.113	.194	.139	.099	.133	.097	.070	.077	.057	.041	.025	.019	.014	
6.0	.218	.153	.106	.188	.133	.092	.129	.093	.065	.075	.055	.039	.024	.018	.013	
7.0	.211	.146	.101	.182	.127	.088	.125	.089	.062	.073	.052	.037	.024	.017	.012	
8.0	.204	.141	.097	.176	.122	.085	.122	.086	.060	.071	.051	.036	.023	.017	.012	
9.0	.198	.136	.094	.170	.118	.082	.118	.083	.058	.069	.049	.035	.022	.016	.012	
10.0	.192	.132	.092	.165	.114	.080	.115	.080	.057	.067	.048	.034	.022	.016	.011	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:ZZX
 Test Date:2023-08-10

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.465
 Humidity:65.0%
 Test Distance:26.000m [K=0.4559]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

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	26.5	28.1	27.0	28.6	29.1	26.5	28.1	27.0	28.6	29.1
3H	28.5	29.9	29.0	30.4	31.0	28.5	29.9	29.0	30.4	31.0
4H	29.2	30.6	29.8	31.2	31.7	29.3	30.7	29.8	31.2	31.8
6H	29.9	31.2	30.4	31.7	32.3	30.0	31.3	30.5	31.8	32.4
8H	30.2	31.4	30.7	32.0	32.6	30.3	31.6	30.9	32.1	32.7
12H	30.5	31.7	31.0	32.2	32.8	30.6	31.8	31.2	32.4	33.0
4H 2H	27.2	28.6	27.7	29.1	29.7	27.2	28.6	27.7	29.1	29.7
3H	29.4	30.6	29.9	31.1	31.7	29.4	30.6	30.0	31.2	31.8
4H	30.3	31.4	30.9	32.0	32.6	30.4	31.5	30.9	32.0	32.7
6H	31.2	32.1	31.7	32.7	33.3	31.2	32.2	31.8	32.8	33.4
8H	31.5	32.4	32.1	33.0	33.7	31.6	32.5	32.2	33.1	33.8
12H	31.9	32.7	32.5	33.3	34.0	32.1	32.9	32.7	33.5	34.2
8H 4H	30.7	31.6	31.3	32.2	32.9	30.8	31.7	31.4	32.3	32.9
6H	31.7	32.5	32.4	33.1	33.8	31.8	32.6	32.4	33.2	33.9
8H	32.2	32.9	32.9	33.6	34.2	32.4	33.0	33.0	33.7	34.4
12H	32.7	33.3	33.3	34.0	34.7	32.9	33.5	33.5	34.1	34.9
12H 4H	30.8	31.6	31.4	32.2	32.9	30.8	31.7	31.4	32.3	32.9
6H	31.9	32.6	32.5	33.2	33.9	32.0	32.6	32.6	33.2	34.0
8H	32.4	33.0	33.1	33.7	34.4	32.6	33.2	33.2	33.8	34.5
CIE190: 2010										

CIE190: 2010
 Area: 0.0581 m2

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:ZZX
 Test Date:2023-08-10

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.465
 Humidity:65.0%
 Test Distance:26.000m [K=0.4559]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

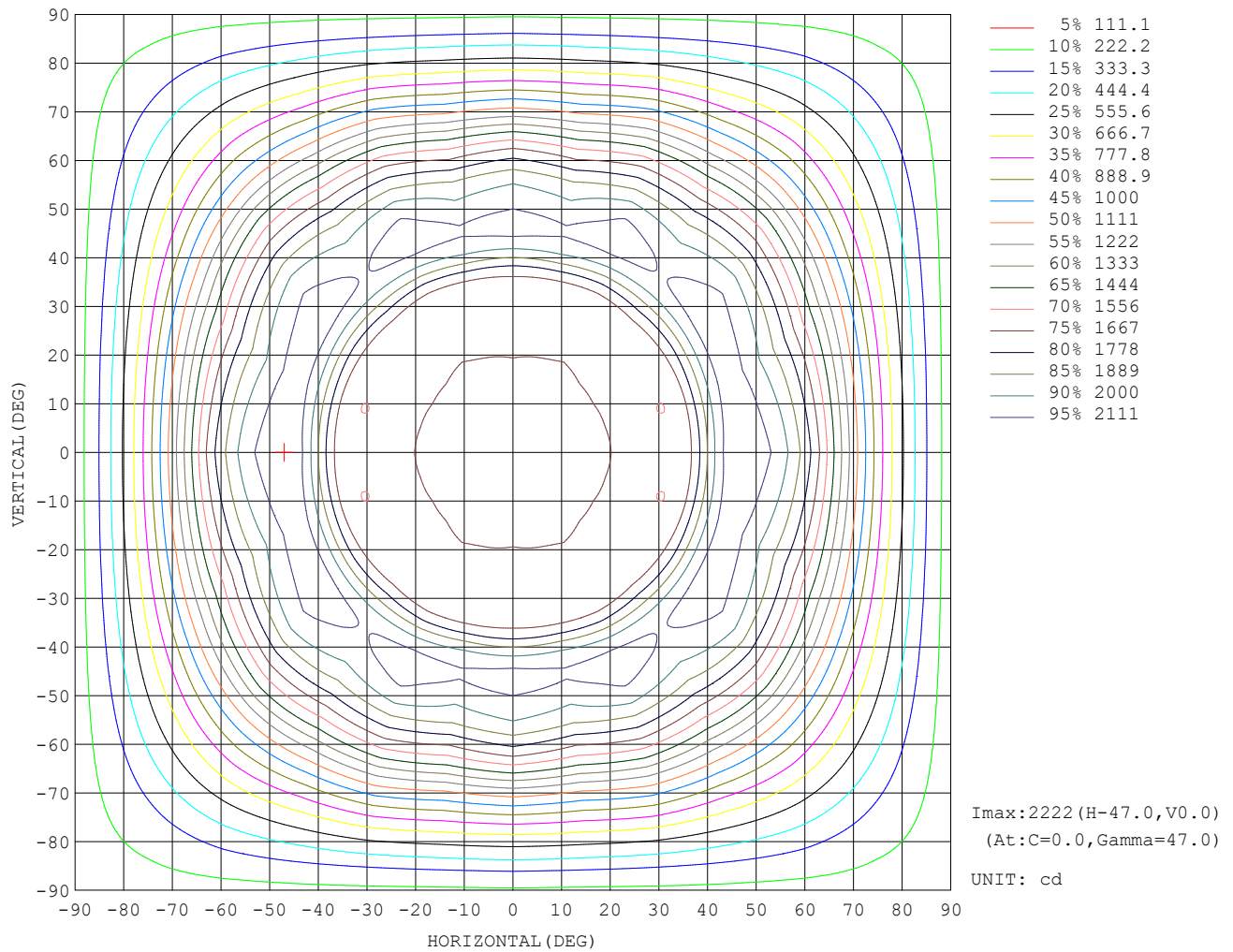
UTILIZATION FACTORS TABLE

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) $k(RI) \times RCR = 5$									
$k = 0.60$	46	33	25	45	33	25	43	32	25	17
0.80	57	43	35	55	42	34	52	41	33	25
1.00	65	52	44	64	51	43	60	53	42	33
1.25	73	61	52	71	59	51	67	57	50	40
1.50	79	67	58	76	65	58	72	63	56	46
2.00	87	76	68	84	75	67	79	71	65	54
2.50	92	82	75	89	80	73	83	76	70	59
3.00	96	87	80	93	85	79	87	81	75	64
4.00	100	93	87	97	91	85	91	86	81	69
5.00	103	97	92	100	95	90	94	89	85	73
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: 25.3°C
 Operators: ZZX
 Test Date: 2023-08-10

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.465
 Humidity: 65.0%
 Test Distance: 26.000m [K=0.4559]
 Remarks:

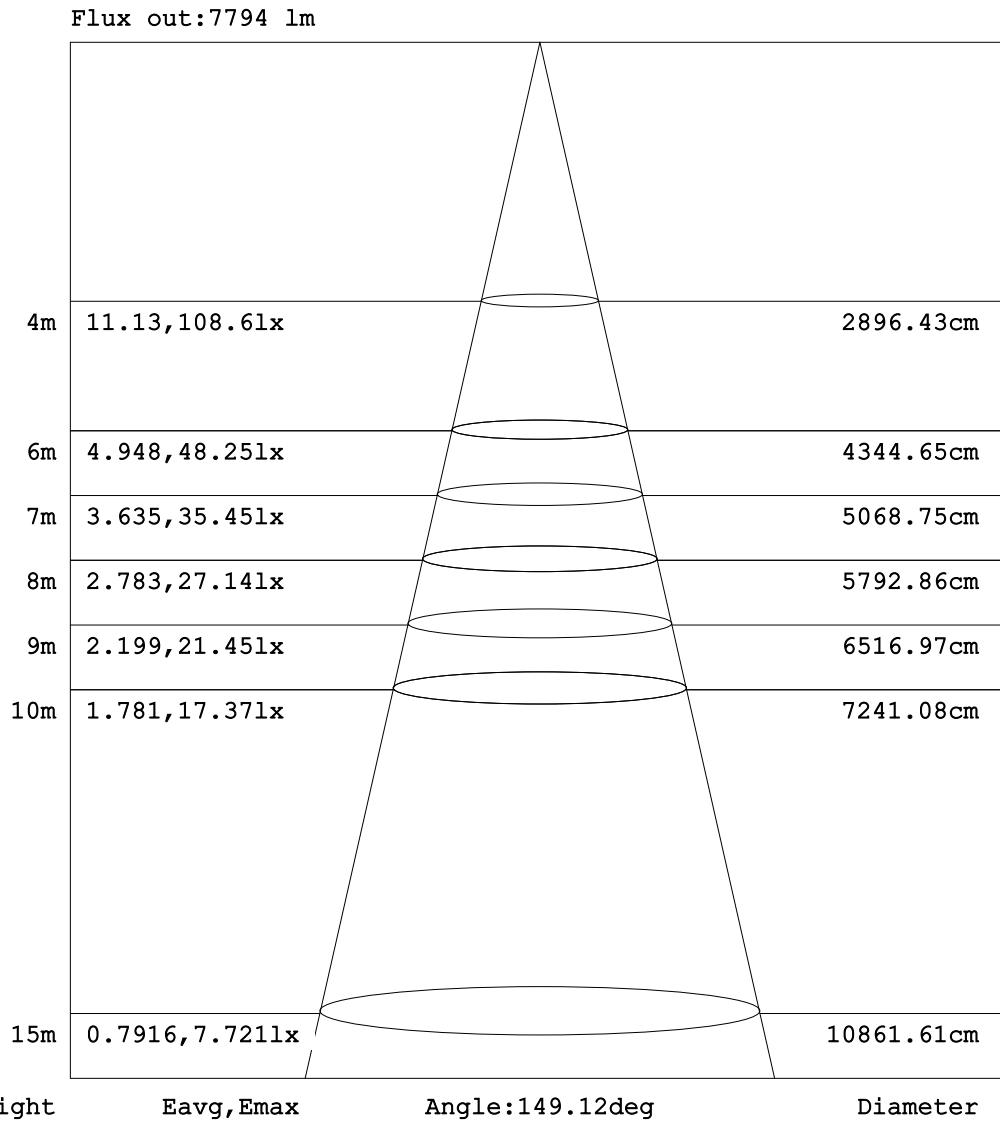
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:ZZX
 Test Date:2023-08-10

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.465
 Humidity:65.0%
 Test Distance:26.000m [K=0.4559]
 Remarks:

AAI Figure

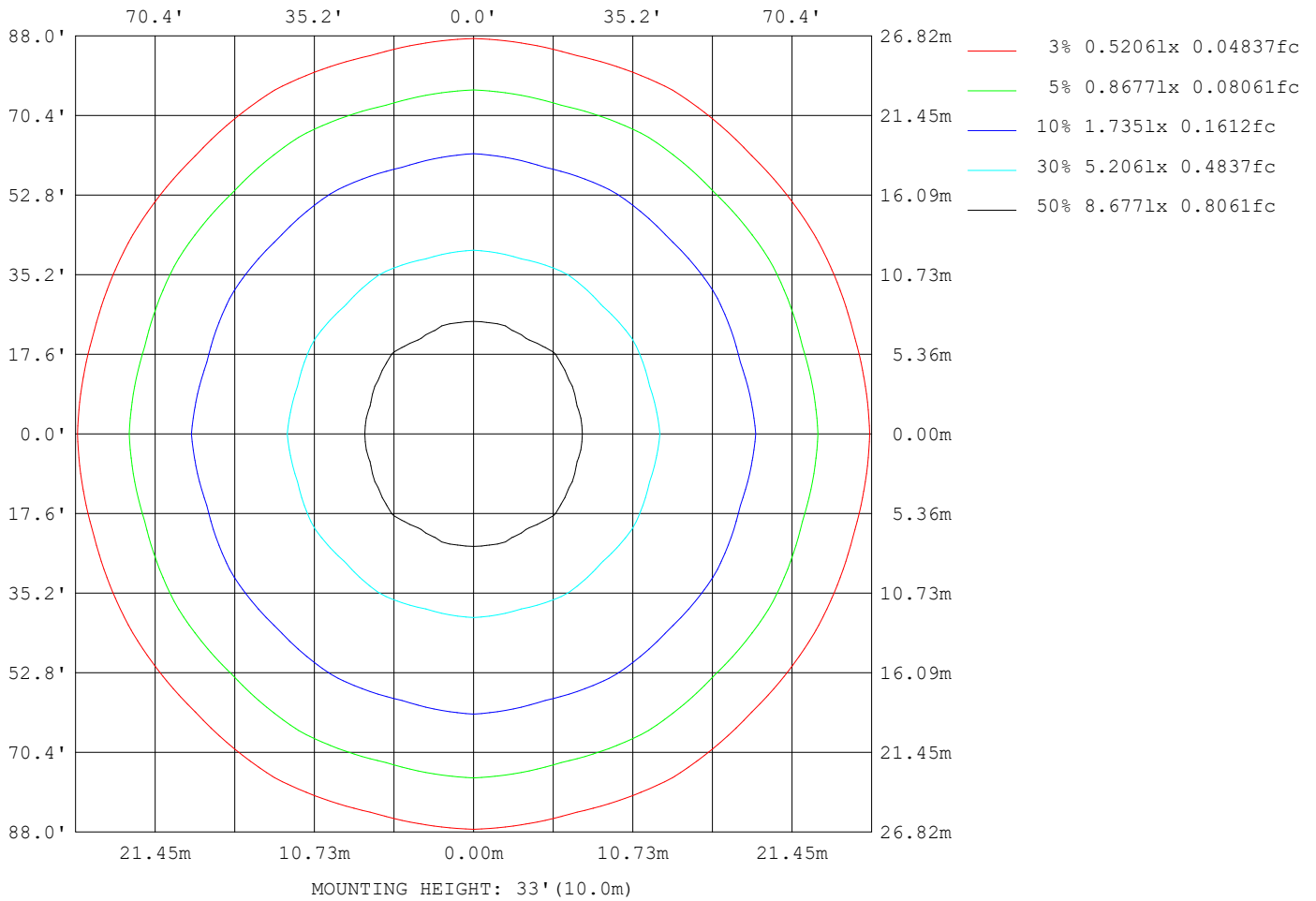


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: ZZK
 Test Date: 2023-08-10

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.465
 Humidity: 65.0%
 Test Distance: 26.000m [K=0.4559]
 Remarks:

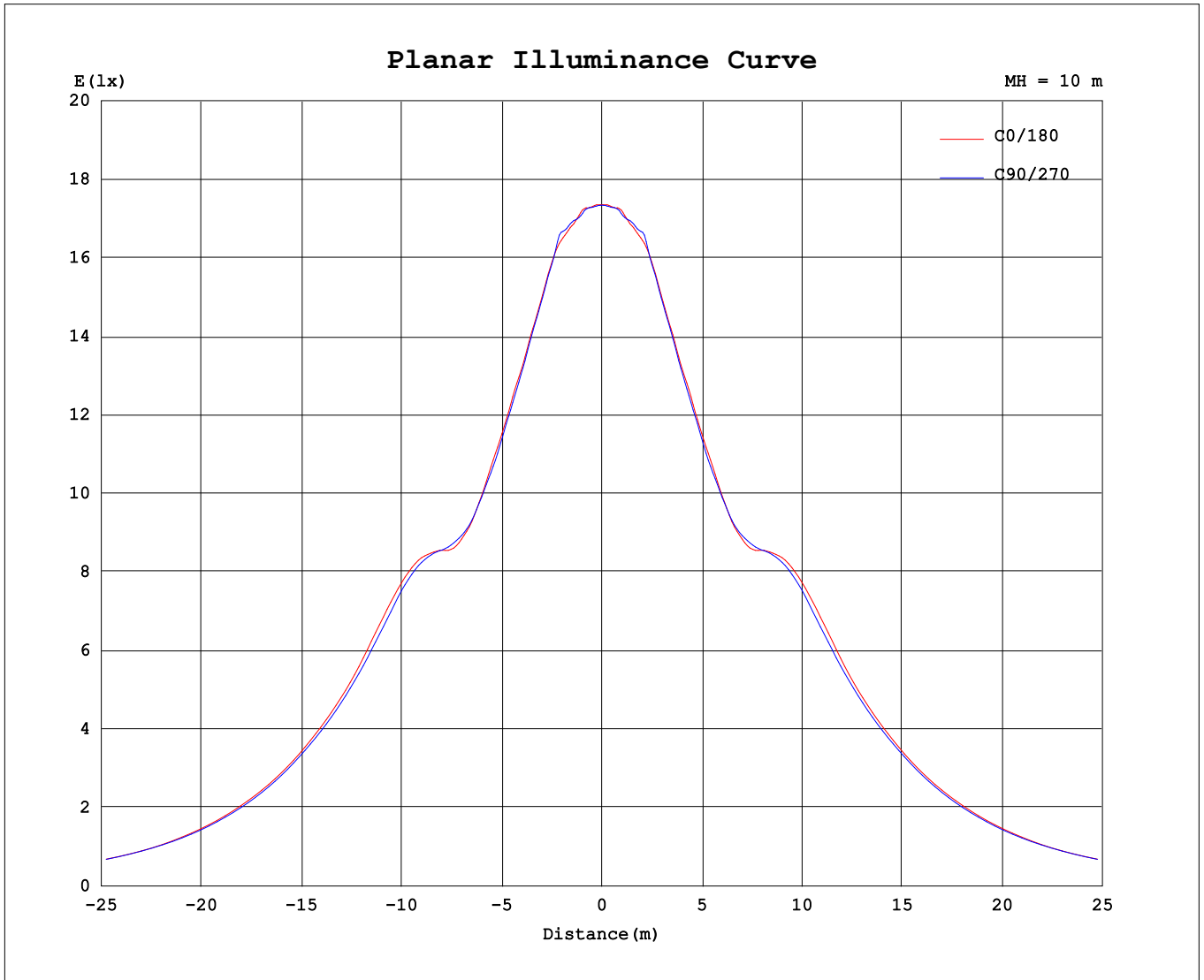
ISOLUX DIAGRAM



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operator: ZZX
 Test Date: 2023-08-10

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.465
 Humidity: 65.0%
 Test Distance: 26.000m [K=0.4559]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: ZZX
Test Date: 2023-08-10

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.465
Humidity: 65.0%
Test Distance: 26.000m [K=0.4559]
Remarks: