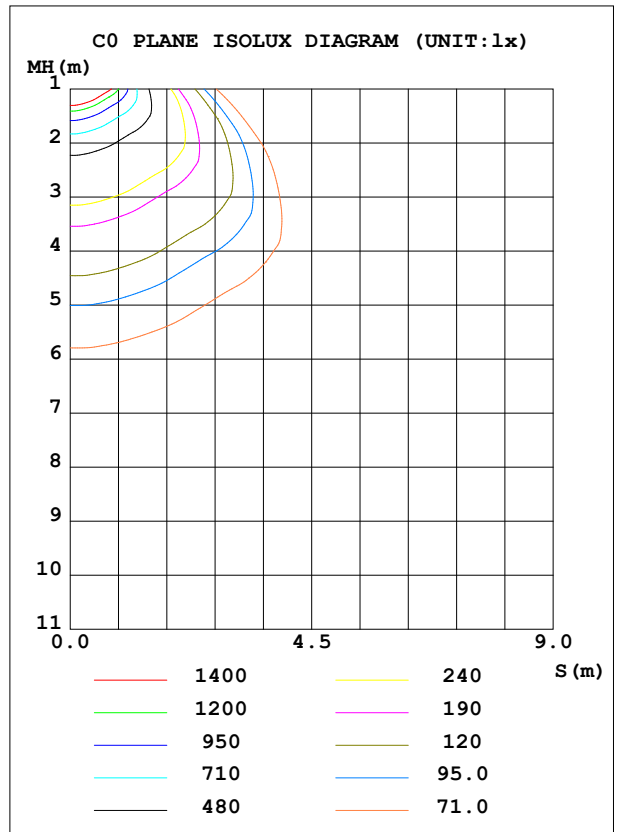
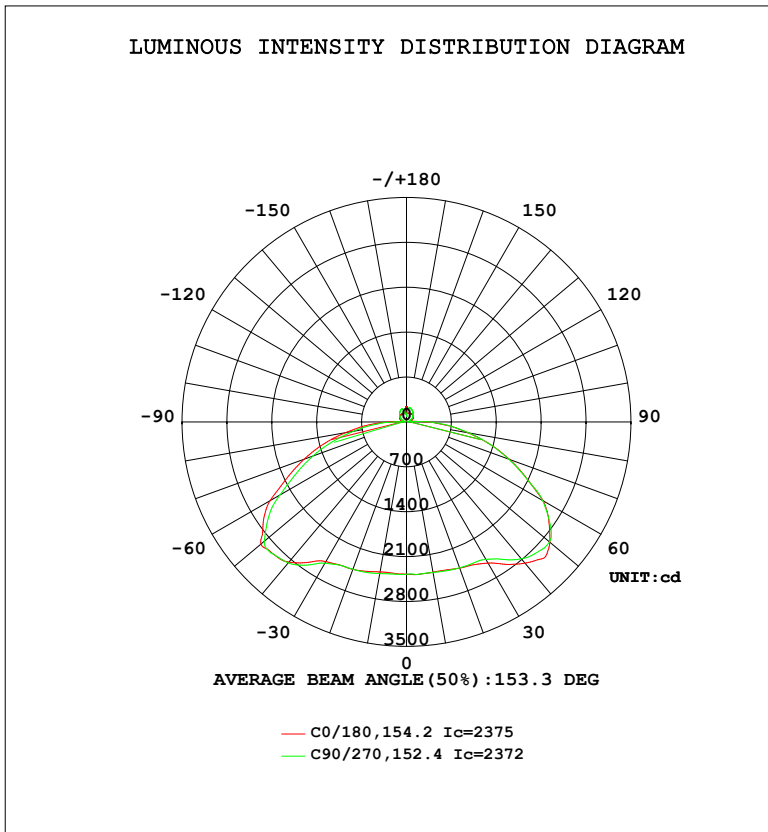


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.662A P:79.0W PF:0.995 Freq:50.00Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13123.7x1 lm		
NAME: CP10-080-4070-A00C07	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 166.12 lm/W			
MODEL	/	I _{max} (cd)	3055	S/MH (C0/180)	1.81
NOMINAL POWER (W)	/	LOR (%)	100.0	S/MH (C90/270)	1.80
RATED VOLTAGE (V)	/	TOTAL FLUX (lm)	13124	η UP, DN (C0-180)	2.8, 47.8
NOMINAL FLUX (lm)	13123.7	CIE CLASS	DIRECT	η UP, DN (C180-360)	2.8, 46.5
LAMPS INSIDE	1	η up (%)	5.6	CIBSE SHR NOM	2.00
TEST VOLTAGE (V)	/	η down (%)	94.4	CIBSE SHR MAX	2.00



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: LYJ
 Test Date: 2023-08-09

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=0.4556]
 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	2379	2379	2383	2378	2375	2386	2402	2385	0- 10	227.1	227.1	1.73,1.73
20	2426	2415	2421	2430	2446	2432	2445	2406	10- 20	682.3	909.3	6.93,6.93
30	2542	2480	2474	2494	2515	2535	2544	2510	20- 30	1136	2046	15.6,15.6
40	2874	2898	2785	2854	2854	2953	2870	2882	30- 40	1690	3736	28.5,28.5
50	2917	3002	2912	2911	2962	2899	2894	2832	40- 50	2270	6006	45.8,45.8
60	2460	2474	2451	2374	2457	2306	2278	2254	50- 60	2388	8394	64,64
70	1711	1727	1697	1623	1699	1568	1551	1545	60- 70	1979	10373	79,79
80	973.4	1007	989.5	917.4	965.7	864.0	843.7	840.4	70- 80	1354	11727	89.4,89.4
90	292.6	381.1	362.1	343.9	225.3	231.4	184.2	214.7	80- 90	659.4	12387	94.4,94.4
100	58.62	48.98	24.20	43.22	63.28	57.12	31.95	47.57	90-100	125.6	12512	95.3,95.3
110	89.04	76.83	57.60	67.87	96.46	85.34	66.23	73.50	100-110	65.35	12577	95.8,95.8
120	118.7	102.2	93.79	88.76	124.3	107.2	101.5	95.40	110-120	90.05	12668	96.5,96.5
130	137.7	119.2	129.4	102.2	139.1	120.2	136.2	109.8	120-130	102.8	12770	97.3,97.3
140	146.9	133.3	163.1	153.4	143.7	133.5	168.6	132.8	130-140	106.1	12876	98.1,98.1
150	147.8	205.1	192.5	198.9	142.9	188.1	196.9	209.4	140-150	103.9	12980	98.9,98.9
160	142.5	166.5	215.8	141.0	140.0	131.6	219.3	207.9	150-160	82.85	13063	99.5,99.5
170	136.1	135.8	223.2	128.3	136.4	131.4	138.3	160.7	160-170	46.36	13109	99.9,99.9
180	236.0	237.6	89.88	203.0	236.6	238.0	89.92	203.4	170-180	14.18	13124	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 4813.4 lm

%lum = 36.7%

%lamp = 36.7%

Conical surface Flux(120deg): 8393.7 lm

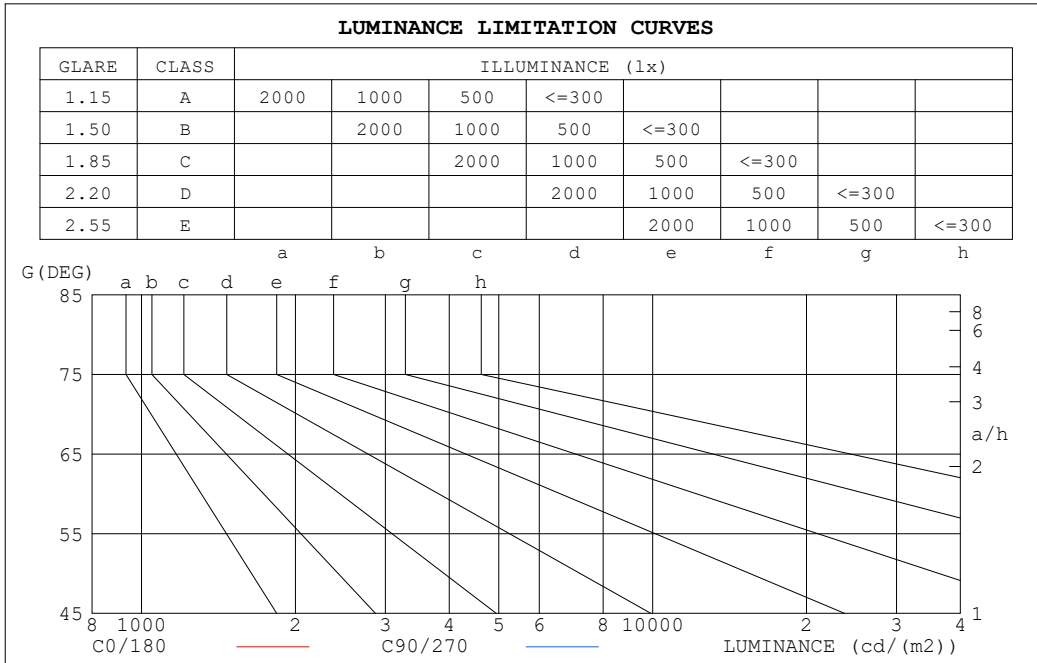
%lum = 64.0%

%lamp = 64.0%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:LYJ
 Test Date:2023-08-09

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=0.4556]
 Remarks:

LUMINANCE LIMITATION CURVES



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	105174	108527
80	79498	80576
75	73864	73497
70	70930	70164
65	69099	68613
60	69785	69327
55	67031	67184
50	64352	64060
45	60390	57553

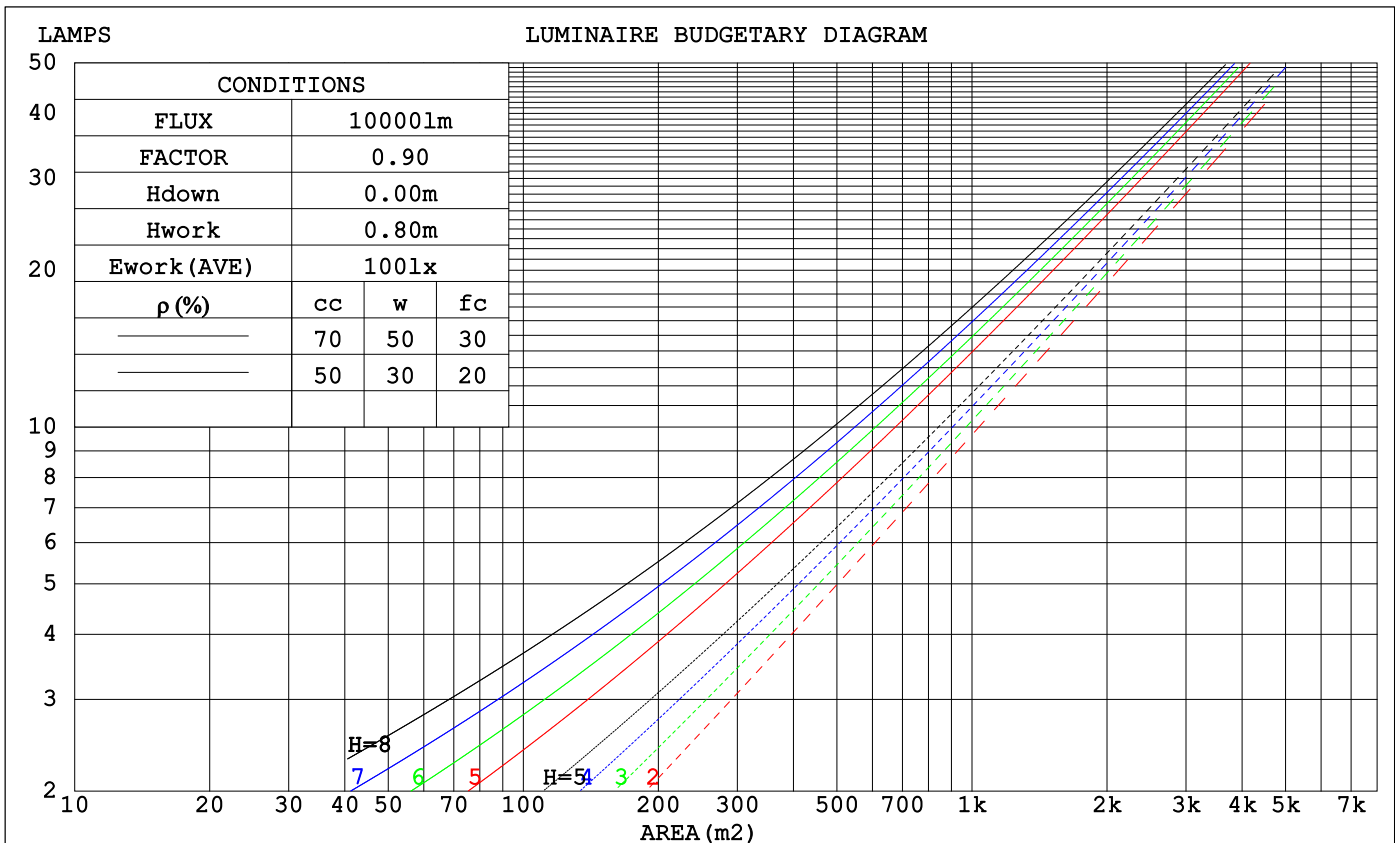
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: LYJ
 Test Date: 2023-08-09

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=0.4556]
 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	1.18	1.18	1.18	1.14	1.14	1.14	1.08	1.08	1.08	1.02	1.02	1.02	.97	.97	.97	.94
1.0	.99	.94	.89	.96	.91	.87	.91	.87	.83	.86	.83	.80	.81	.79	.76	.74
2.0	.84	.76	.69	.82	.74	.68	.77	.71	.66	.73	.68	.63	.69	.65	.61	.58
3.0	.72	.63	.55	.70	.62	.55	.66	.59	.53	.63	.56	.51	.59	.54	.50	.47
4.0	.63	.53	.45	.61	.52	.45	.58	.50	.43	.55	.48	.42	.52	.46	.41	.38
5.0	.55	.45	.38	.54	.44	.37	.51	.43	.36	.48	.41	.35	.46	.39	.35	.32
6.0	.49	.39	.32	.48	.38	.32	.45	.37	.31	.43	.36	.30	.41	.34	.29	.27
7.0	.44	.34	.28	.43	.34	.27	.41	.33	.27	.39	.31	.26	.37	.30	.26	.23
8.0	.40	.30	.24	.39	.30	.24	.37	.29	.23	.35	.28	.23	.33	.27	.22	.20
9.0	.36	.27	.21	.35	.27	.21	.34	.26	.21	.32	.25	.20	.31	.24	.20	.18
10.0	.33	.25	.19	.32	.24	.19	.31	.23	.18	.29	.23	.18	.28	.22	.18	.16



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:LYJ
 Test Date:2023-08-09

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=0.4556]
 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	.377	.214	.068	.368	.210	.067	.351	.201	.064	.336	.194	.062	.321	.186	.060	
2.0	.340	.186	.057	.332	.183	.056	.317	.176	.055	.303	.170	.053	.290	.164	.052	
3.0	.307	.163	.049	.300	.160	.048	.286	.155	.047	.274	.150	.046	.262	.145	.045	
4.0	.278	.145	.043	.272	.142	.042	.260	.138	.041	.249	.133	.040	.238	.129	.039	
5.0	.254	.129	.038	.248	.127	.037	.237	.124	.036	.227	.120	.036	.218	.116	.035	
6.0	.233	.117	.033	.228	.115	.033	.218	.112	.033	.209	.109	.032	.200	.105	.031	
7.0	.215	.106	.030	.210	.105	.030	.202	.102	.029	.193	.099	.029	.185	.096	.028	
8.0	.199	.097	.027	.195	.096	.027	.187	.094	.027	.180	.091	.026	.173	.089	.026	
9.0	.186	.090	.025	.182	.089	.025	.175	.086	.024	.168	.084	.024	.161	.082	.024	
10.0	.174	.083	.023	.170	.082	.023	.164	.080	.023	.157	.078	.022	.151	.076	.022	

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	.233	.233	.233	.199	.199	.199	.136	.136	.136	.078	.078	.078	.025	.025	.025	
1.0	.228	.199	.172	.195	.171	.148	.133	.117	.103	.077	.068	.060	.025	.022	.019	
2.0	.222	.175	.136	.190	.151	.117	.130	.104	.082	.075	.061	.048	.024	.020	.016	
3.0	.215	.158	.113	.185	.136	.098	.127	.095	.069	.073	.055	.040	.024	.018	.013	
4.0	.208	.146	.098	.178	.126	.085	.123	.088	.060	.071	.051	.035	.023	.017	.012	
5.0	.200	.136	.088	.172	.117	.076	.119	.082	.054	.069	.048	.032	.022	.016	.011	
6.0	.193	.127	.080	.166	.110	.070	.114	.077	.050	.066	.045	.029	.021	.015	.010	
7.0	.186	.121	.075	.160	.105	.066	.110	.073	.046	.064	.043	.028	.021	.014	.009	
8.0	.179	.115	.071	.154	.100	.062	.107	.070	.044	.062	.041	.026	.020	.014	.009	
9.0	.172	.110	.068	.149	.096	.060	.103	.067	.042	.060	.040	.025	.019	.013	.008	
10.0	.166	.106	.066	.143	.092	.057	.100	.065	.041	.058	.038	.024	.019	.013	.008	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:LYJ
 Test Date:2023-08-09

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=0.4556]
 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	27.2	28.9	27.7	29.3	29.8	27.0	28.6	27.4	29.1	29.5
3H	29.4	30.9	29.8	31.4	31.9	29.1	30.7	29.6	31.1	31.6
4H	30.3	31.8	30.8	32.3	32.8	30.1	31.6	30.6	32.0	32.5
6H	31.2	32.6	31.7	33.0	33.6	31.0	32.4	31.5	32.8	33.4
8H	31.6	32.9	32.1	33.4	33.9	31.4	32.7	31.9	33.2	33.7
12H	32.0	33.2	32.5	33.7	34.3	31.8	33.1	32.3	33.6	34.1
4H 2H	27.9	29.4	28.4	29.8	30.3	27.6	29.1	28.1	29.6	30.1
3H	30.4	31.6	30.9	32.1	32.6	30.1	31.3	30.6	31.8	32.3
4H	31.5	32.6	32.0	33.2	33.7	31.2	32.3	31.7	32.9	33.4
6H	32.6	33.6	33.1	34.1	34.7	32.3	33.3	32.8	33.8	34.4
8H	33.0	34.0	33.6	34.5	35.1	32.8	33.7	33.3	34.3	34.8
12H	33.5	34.4	34.1	34.9	35.5	33.3	34.2	33.9	34.7	35.3
8H 4H	32.0	32.9	32.5	33.5	34.0	31.6	32.6	32.2	33.1	33.7
6H	33.2	34.0	33.8	34.6	35.2	32.9	33.7	33.5	34.3	34.9
8H	33.8	34.6	34.4	35.1	35.8	33.5	34.3	34.1	34.8	35.5
12H	34.5	35.2	35.1	35.7	36.4	34.2	34.9	34.8	35.4	36.1
12H 4H	32.1	32.9	32.6	33.5	34.1	31.7	32.6	32.3	33.2	33.8
6H	33.4	34.1	34.0	34.7	35.3	33.1	33.8	33.6	34.3	35.0
8H	34.1	34.7	34.7	35.3	36.0	33.8	34.4	34.3	35.0	35.7
CIE190: 2010										

CIE190: 2010
 Area: 0.070686 m2

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:LYJ
 Test Date:2023-08-09

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=0.4556]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

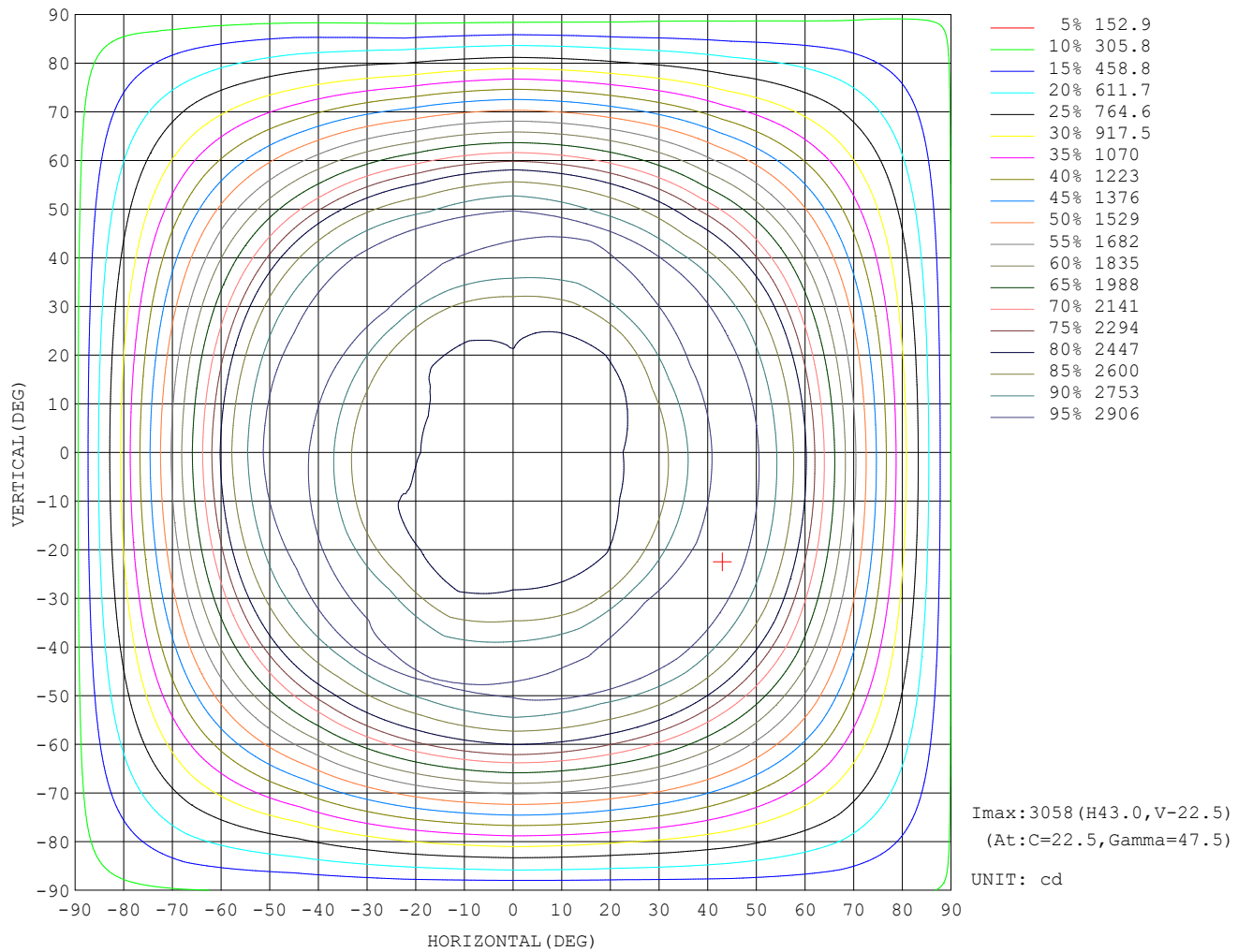
UTILIZATION FACTORS TABLE

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) $k(RI) \times RCR = 5$									
$k = 0.60$	48	35	27	47	35	27	45	34	27	19
0.80	58	45	36	57	44	36	54	43	35	27
1.00	67	54	45	65	53	45	62	54	44	36
1.25	74	62	54	73	61	53	69	59	52	43
1.50	80	68	60	78	67	59	74	64	57	48
2.00	88	77	69	85	76	68	81	73	66	56
2.50	92	83	75	90	81	74	85	78	72	61
3.00	96	88	81	94	86	80	88	82	77	66
4.00	101	94	88	98	92	86	93	87	83	72
5.00	104	98	93	101	95	91	95	91	87	75
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: LYJ
 Test Date: 2023-08-09

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=0.4556]
 Remarks:

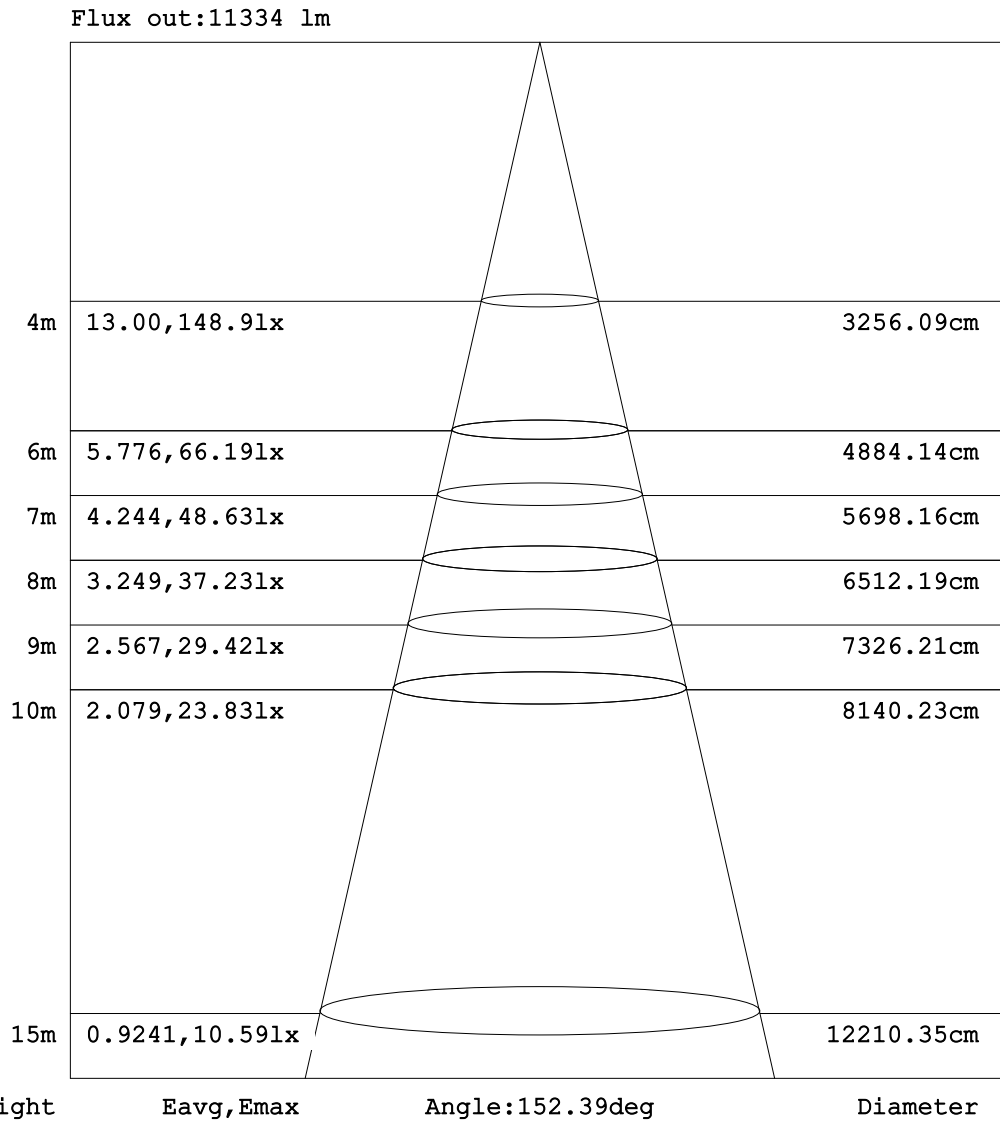
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: LYJ
 Test Date: 2023-08-09

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=0.4556]
 Remarks:

AAI Figure

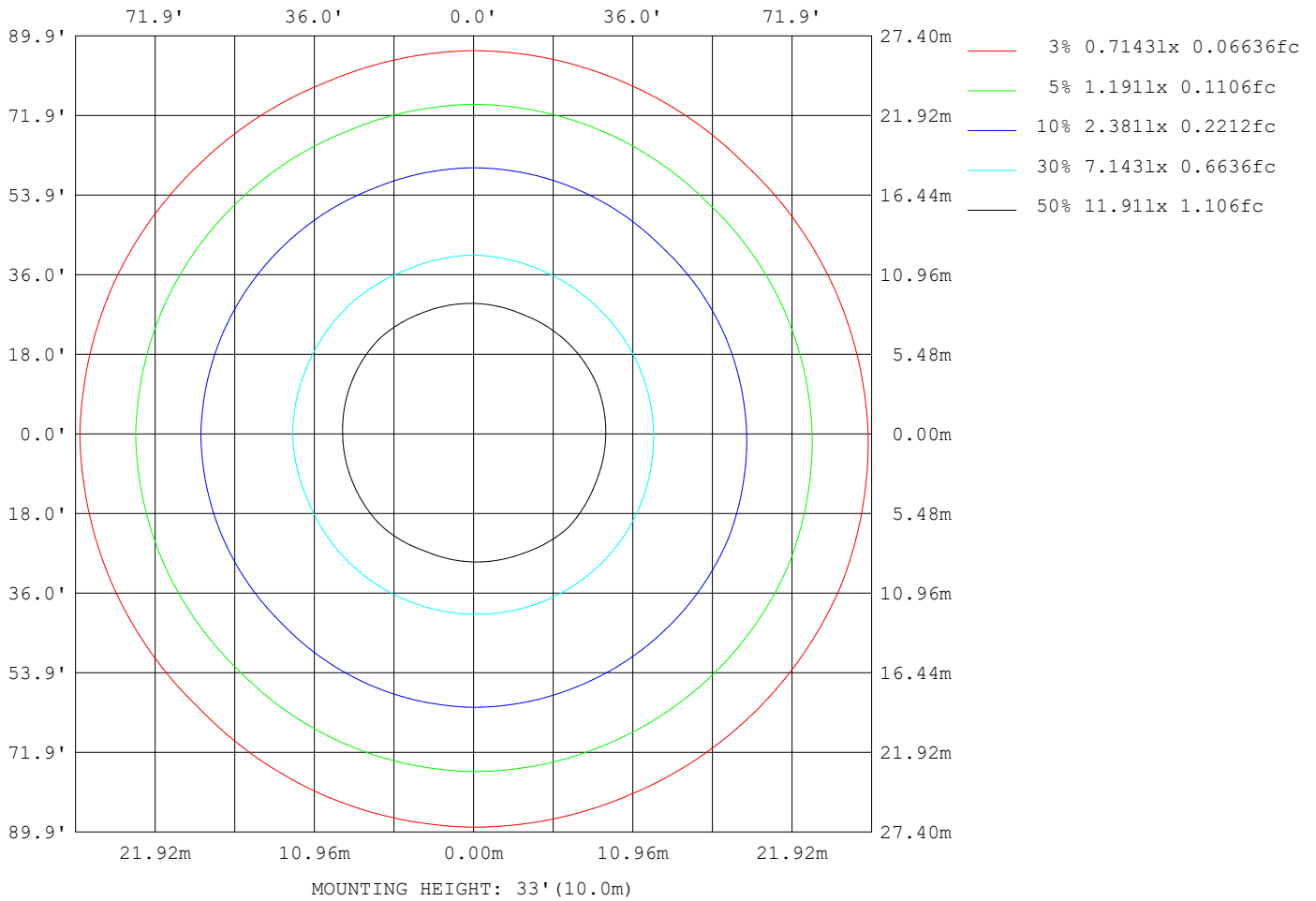


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: LYJ
 Test Date: 2023-08-09

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=0.4556]
 Remarks:

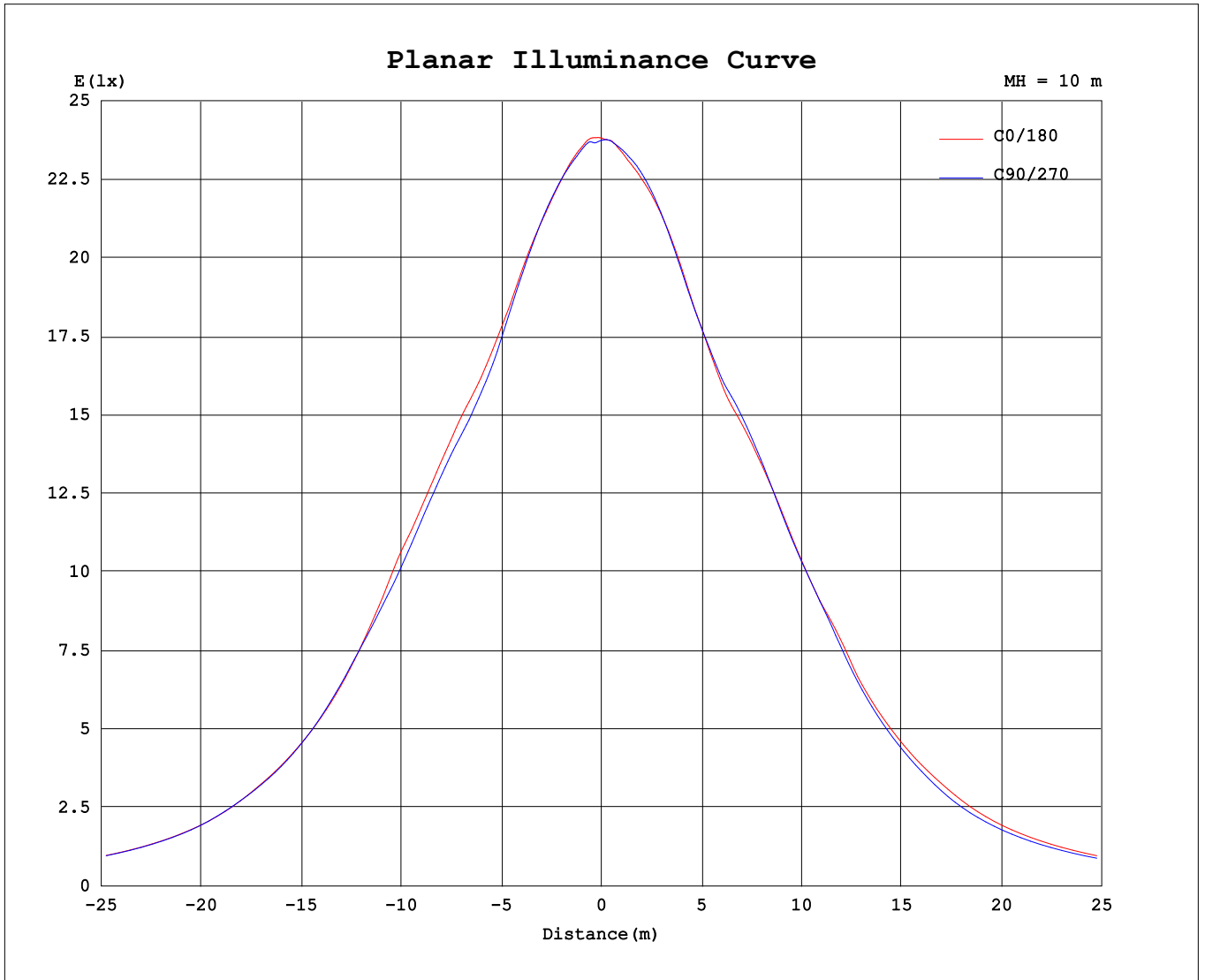
ISOLUX DIAGRAM



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: LYJ
 Test Date: 2023-08-09

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=0.4556]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: LYJ
Test Date: 2023-08-09

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=0.4556]
Remarks: