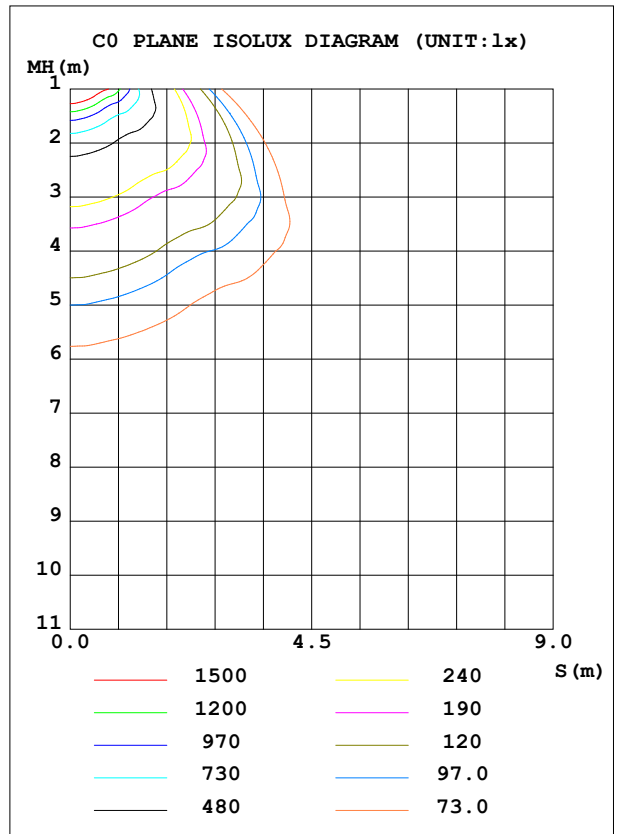
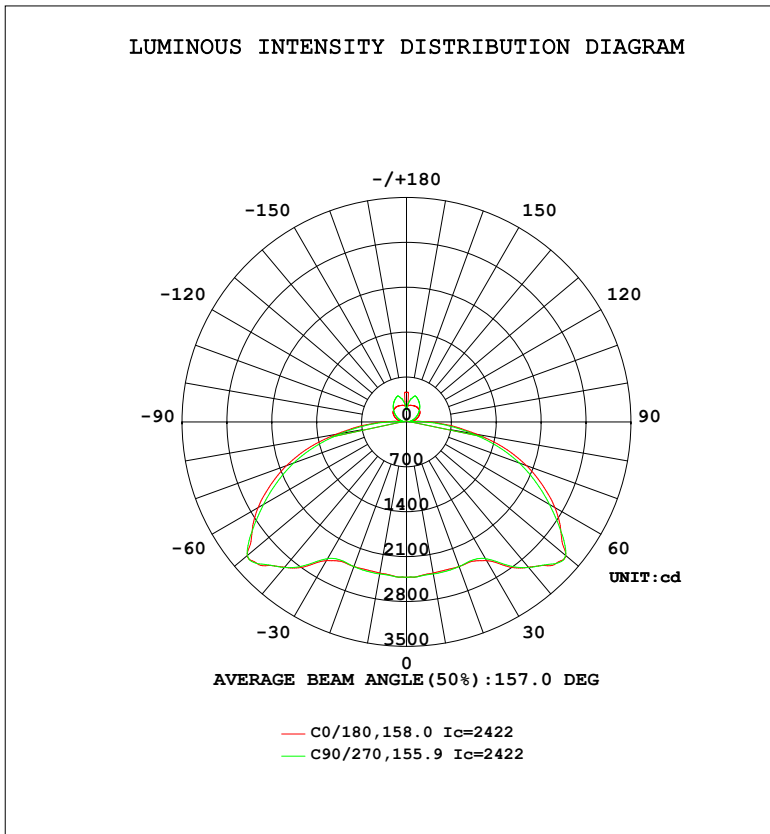


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.837A P:100.0W PF:0.996 Freq:50.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14666.2x1 lm		
NAME: CP10-100-3070-A00C07	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 146.66 lm/W			
MODEL	/	I _{max} (cd)	3320	S/MH (C0/180)	1.85
NOMINAL POWER (W)	/	LOR (%)	100.0	S/MH (C90/270)	1.85
RATED VOLTAGE (V)	/	TOTAL FLUX (lm)	14666	η UP, DN (C0-180)	4.6, 45.4
NOMINAL FLUX (lm)	14666.2	CIE CLASS	DIRECT	η UP, DN (C180-360)	4.6, 45.4
LAMPS INSIDE	1	η up (%)	9.1	CIBSE SHR NOM	2.00
TEST VOLTAGE (V)	/	η down (%)	90.9	CIBSE SHR MAX	2.00



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: LYJ
 Test Date: 2023-05-09

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	2393	2396	2407	2396	2393	2396	2407	2396	0- 10	229.5	229.5	1.57,1.57
20	2399	2380	2400	2380	2399	2380	2400	2380	10- 20	678.2	907.7	6.19,6.19
30	2498	2457	2461	2457	2498	2457	2461	2457	20- 30	1110	2018	13.8,13.8
40	2957	3053	2962	3053	2957	3053	2962	3053	30- 40	1726	3743	25.5,25.5
50	3240	3225	3238	3225	3240	3225	3238	3225	40- 50	2456	6199	42.3,42.3
60	2672	2562	2576	2562	2672	2562	2576	2562	50- 60	2597	8796	60,60
70	1991	1860	1872	1860	1991	1860	1872	1860	60- 70	2232	11028	75.2,75.2
80	1117	1026	1038	1026	1117	1026	1038	1026	70- 80	1566	12593	85.9,85.9
90	341.3	327.7	292.9	327.7	341.3	327.7	292.9	327.7	80- 90	731.3	13325	90.9,90.9
100	118.5	94.86	52.84	94.86	118.5	94.86	52.84	94.86	90-100	157.6	13482	91.9,91.9
110	180.3	146.3	118.2	146.3	180.3	146.3	118.2	146.3	100-110	126.0	13608	92.8,92.8
120	235.9	189.3	187.8	189.3	235.9	189.3	187.8	189.3	110-120	173.7	13782	94,94
130	268.3	217.0	256.8	217.0	268.3	217.0	256.8	217.0	120-130	198.2	13980	95.3,95.3
140	281.6	266.1	322.0	266.1	281.6	266.1	322.0	266.1	130-140	205.0	14185	96.7,96.7
150	281.7	391.3	379.6	391.3	281.7	391.3	379.6	391.3	140-150	201.7	14387	98.1,98.1
160	273.1	316.3	424.8	316.3	273.1	316.3	424.8	316.3	150-160	161.4	14548	99.2,99.2
170	261.9	268.8	357.1	268.8	261.9	268.8	357.1	268.8	160-170	90.34	14639	99.8,99.8
180	460.1	431.7	179.3	431.7	460.1	431.7	179.3	431.7	170-180	27.58	14666	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 4886.8 lm

%lum = 33.3%

%lamp = 33.3%

Conical surface Flux(120deg): 8796.1 lm

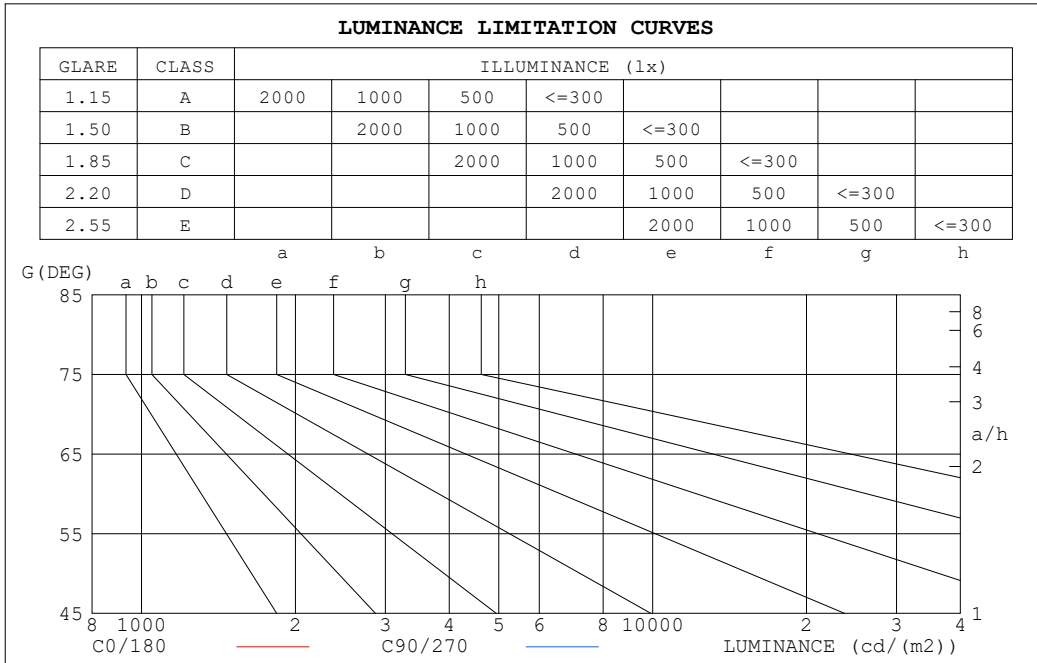
%lum = 60.0%

%lamp = 60.0%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:LYJ
 Test Date:2023-05-09

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	115930	103472
80	91046	84586
75	86812	80257
70	82441	77405
65	78537	74526
60	75672	72874
55	72497	72210
50	71376	71257
45	63495	62828

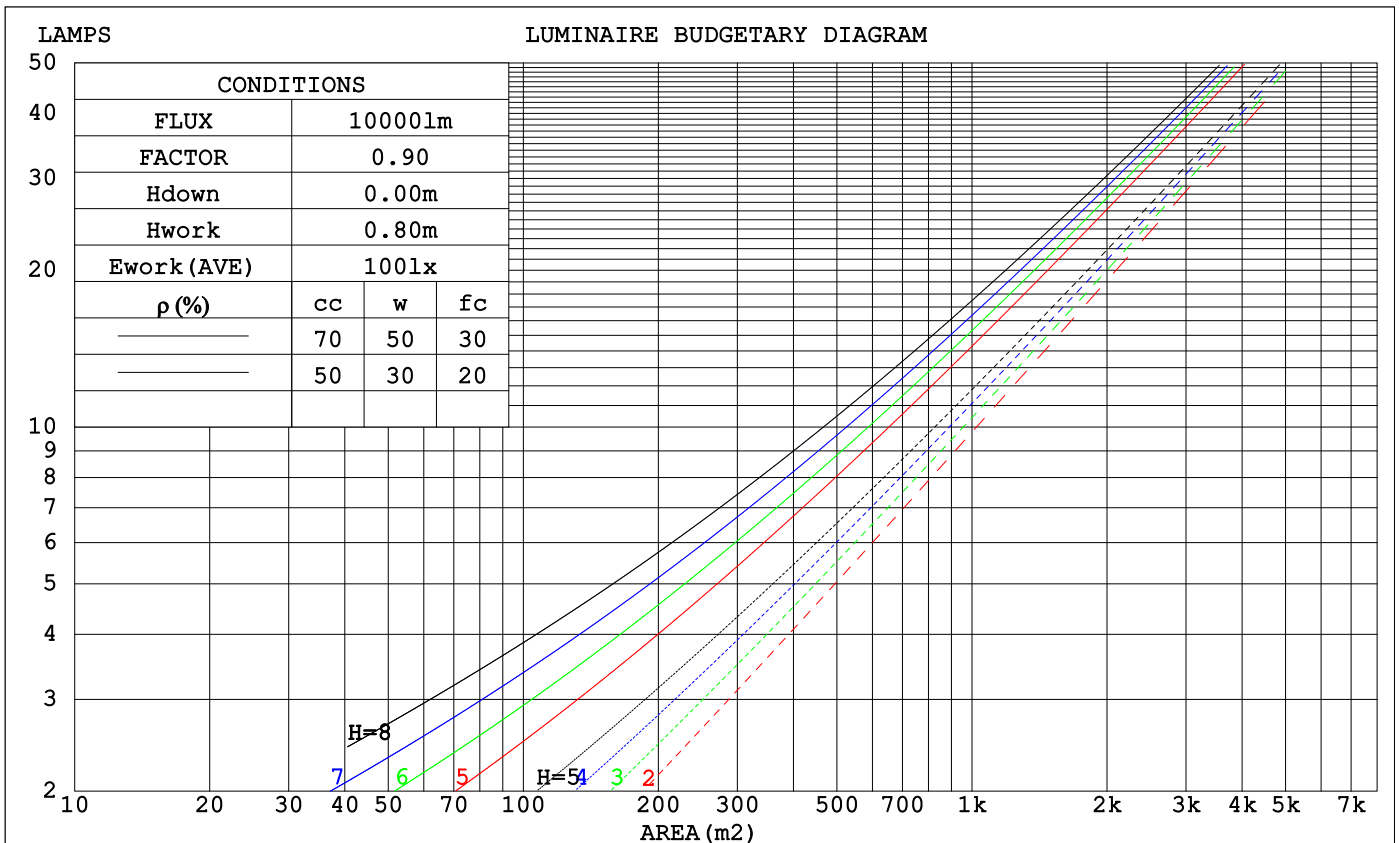
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: LYJ
 Test Date: 2023-05-09

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	1.17	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	.98	.93	.88	.95	.90	.86	.89	.85	.81	.83	.80	.77	.78	.76	.73	.70
2.0	.83	.75	.68	.80	.73	.67	.75	.69	.64	.70	.65	.61	.66	.62	.58	.55
3.0	.71	.62	.54	.69	.60	.53	.64	.57	.51	.60	.54	.49	.56	.51	.47	.44
4.0	.62	.52	.44	.60	.50	.43	.56	.48	.42	.52	.46	.40	.49	.43	.39	.36
5.0	.54	.44	.37	.52	.43	.36	.49	.41	.35	.46	.39	.34	.43	.37	.32	.30
6.0	.48	.38	.31	.46	.37	.31	.44	.36	.29	.41	.34	.28	.39	.32	.27	.25
7.0	.43	.33	.27	.42	.33	.26	.39	.31	.25	.37	.30	.25	.35	.28	.24	.21
8.0	.39	.29	.23	.38	.29	.23	.35	.28	.22	.33	.26	.21	.31	.25	.21	.18
9.0	.35	.26	.20	.34	.26	.20	.32	.25	.19	.30	.24	.19	.29	.23	.18	.16
10.0	.32	.24	.18	.31	.23	.18	.30	.22	.17	.28	.21	.17	.27	.21	.16	.14



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:LYJ
 Test Date:2023-05-09

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	.380	.216	.068	.370	.211	.067	.351	.202	.064	.334	.193	.062	.318	.184	.059	
2.0	.342	.188	.058	.333	.184	.057	.316	.176	.055	.301	.169	.053	.286	.162	.051	
3.0	.309	.164	.049	.301	.161	.048	.285	.155	.047	.271	.149	.046	.258	.143	.044	
4.0	.280	.145	.043	.272	.143	.042	.259	.137	.041	.246	.132	.040	.234	.127	.039	
5.0	.255	.130	.038	.248	.128	.037	.236	.123	.036	.224	.118	.035	.214	.114	.034	
6.0	.234	.117	.034	.228	.115	.033	.217	.111	.032	.206	.107	.031	.196	.103	.031	
7.0	.216	.107	.030	.210	.105	.030	.200	.101	.029	.190	.098	.028	.181	.094	.028	
8.0	.200	.098	.027	.195	.096	.027	.186	.093	.026	.177	.090	.026	.169	.087	.025	
9.0	.186	.090	.025	.181	.088	.025	.173	.085	.024	.165	.083	.024	.157	.080	.023	
10.0	.174	.083	.023	.170	.082	.023	.162	.079	.022	.154	.077	.022	.148	.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	.260	.260	.260	.222	.222	.222	.152	.152	.152	.087	.087	.087	.028	.028	.028	
1.0	.255	.226	.199	.219	.194	.171	.149	.133	.118	.086	.077	.069	.028	.025	.022	
2.0	.250	.202	.163	.214	.174	.141	.147	.121	.098	.085	.070	.057	.027	.023	.019	
3.0	.243	.186	.140	.208	.160	.121	.143	.111	.085	.083	.065	.050	.027	.021	.016	
4.0	.236	.173	.125	.202	.150	.109	.139	.104	.077	.081	.061	.045	.026	.020	.015	
5.0	.228	.163	.115	.196	.141	.100	.135	.099	.071	.078	.058	.042	.025	.019	.014	
6.0	.221	.155	.108	.190	.134	.094	.131	.094	.067	.076	.055	.040	.025	.018	.013	
7.0	.214	.149	.103	.184	.129	.090	.127	.090	.064	.074	.053	.038	.024	.017	.013	
8.0	.207	.143	.099	.178	.124	.086	.123	.087	.061	.072	.051	.037	.023	.017	.012	
9.0	.200	.138	.096	.173	.120	.084	.120	.084	.060	.070	.050	.036	.023	.016	.012	
10.0	.194	.134	.094	.168	.116	.082	.116	.082	.058	.068	.048	.035	.022	.016	.012	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:LYJ
 Test Date:2023-05-09

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		27.1	28.7	27.6	29.2	29.7	26.9	28.5	27.4	29.0	29.5	
	3H	29.5	31.0	30.0	31.5	32.0	29.2	30.6	29.7	31.1	31.7	
	4H	30.5	31.9	31.1	32.5	33.0	30.2	31.6	30.7	32.1	32.7	
	6H	31.4	32.8	32.0	33.3	33.9	31.0	32.3	31.6	32.9	33.5	
	8H	31.8	33.1	32.4	33.6	34.2	31.4	32.6	31.9	33.2	33.8	
	12H	32.2	33.4	32.8	34.0	34.6	31.7	32.9	32.3	33.5	34.1	
	4H	2H	27.8	29.2	28.3	29.7	30.3	27.6	29.0	28.2	29.6	30.1
		3H	30.5	31.7	31.0	32.2	32.8	30.2	31.4	30.7	31.9	32.5
		4H	31.7	32.8	32.2	33.3	34.0	31.3	32.4	31.9	33.0	33.6
		6H	32.7	33.7	33.3	34.3	34.9	32.3	33.3	32.9	33.9	34.5
		8H	33.2	34.1	33.8	34.7	35.4	32.8	33.7	33.3	34.3	34.9
		12H	33.7	34.5	34.3	35.1	35.8	33.2	34.0	33.8	34.6	35.3
	8H	4H	32.1	33.0	32.7	33.6	34.2	31.8	32.7	32.4	33.3	33.9
		6H	33.3	34.1	34.0	34.7	35.4	33.0	33.7	33.6	34.4	35.0
		8H	33.9	34.6	34.6	35.3	36.0	33.5	34.2	34.2	34.9	35.5
		12H	34.6	35.2	35.2	35.8	36.6	34.1	34.7	34.7	35.3	36.1
	12H	4H	32.1	33.0	32.8	33.6	34.3	31.9	32.7	32.5	33.3	34.0
		6H	33.5	34.2	34.1	34.8	35.5	33.1	33.8	33.8	34.4	35.2
		8H	34.1	34.8	34.8	35.4	36.1	33.8	34.4	34.4	35.0	35.8
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:2023-05-09

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

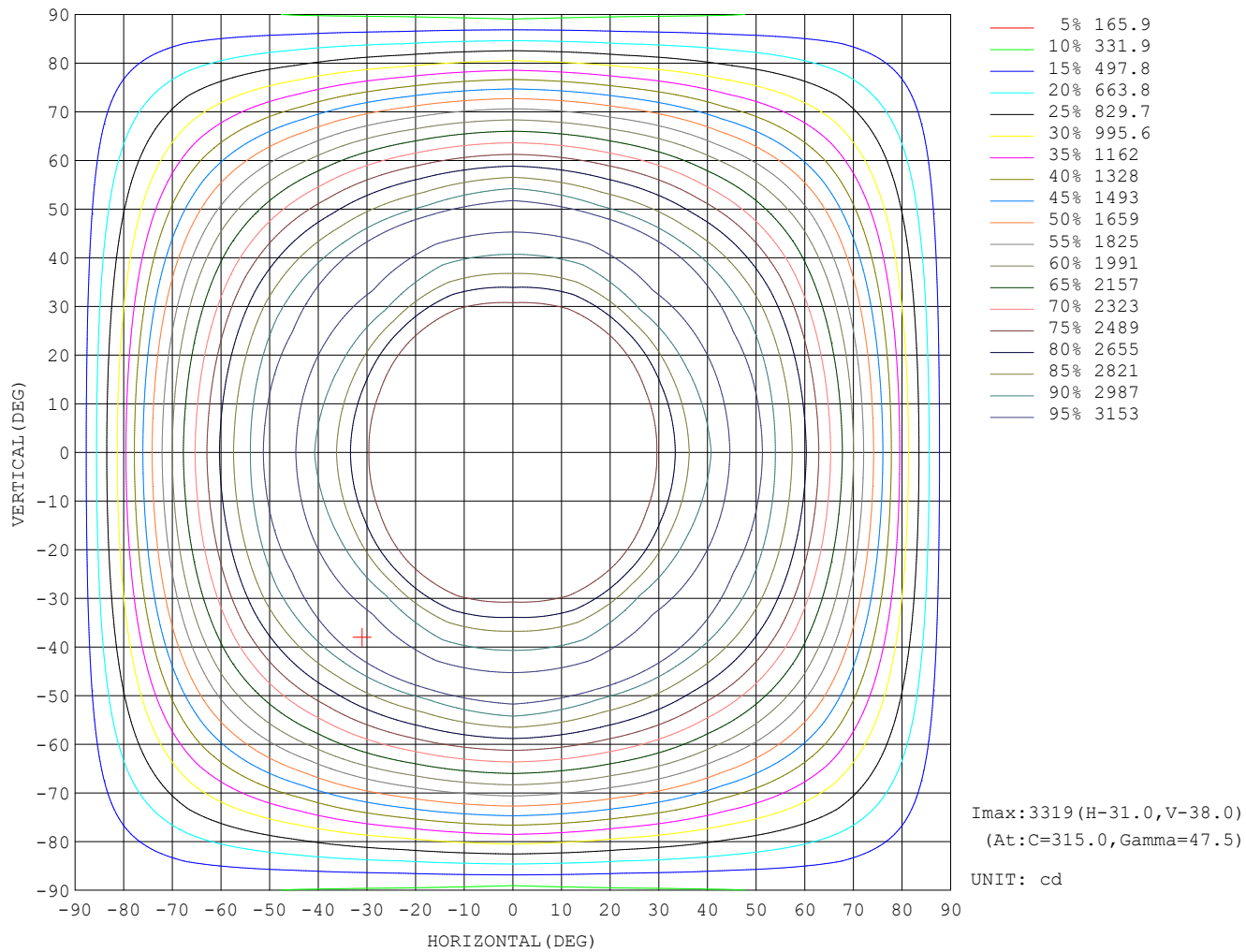
UTILIZATION FACTORS TABLE

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) $k(RI) \times RCR = 5$									
$k = 0.60$	46	33	25	45	33	25	43	32	25	17
0.80	56	43	34	55	42	34	52	41	33	25
1.00	65	52	43	63	51	43	60	52	42	33
1.25	73	60	51	71	59	51	67	57	49	40
1.50	78	66	58	76	65	57	71	62	55	45
2.00	86	76	67	84	74	66	79	70	64	53
2.50	91	81	74	88	79	72	83	75	69	58
3.00	95	86	79	92	84	78	86	80	74	62
4.00	100	93	87	97	90	84	91	85	81	68
5.00	103	97	91	100	94	89	93	89	85	72
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: 2023-05-09

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:

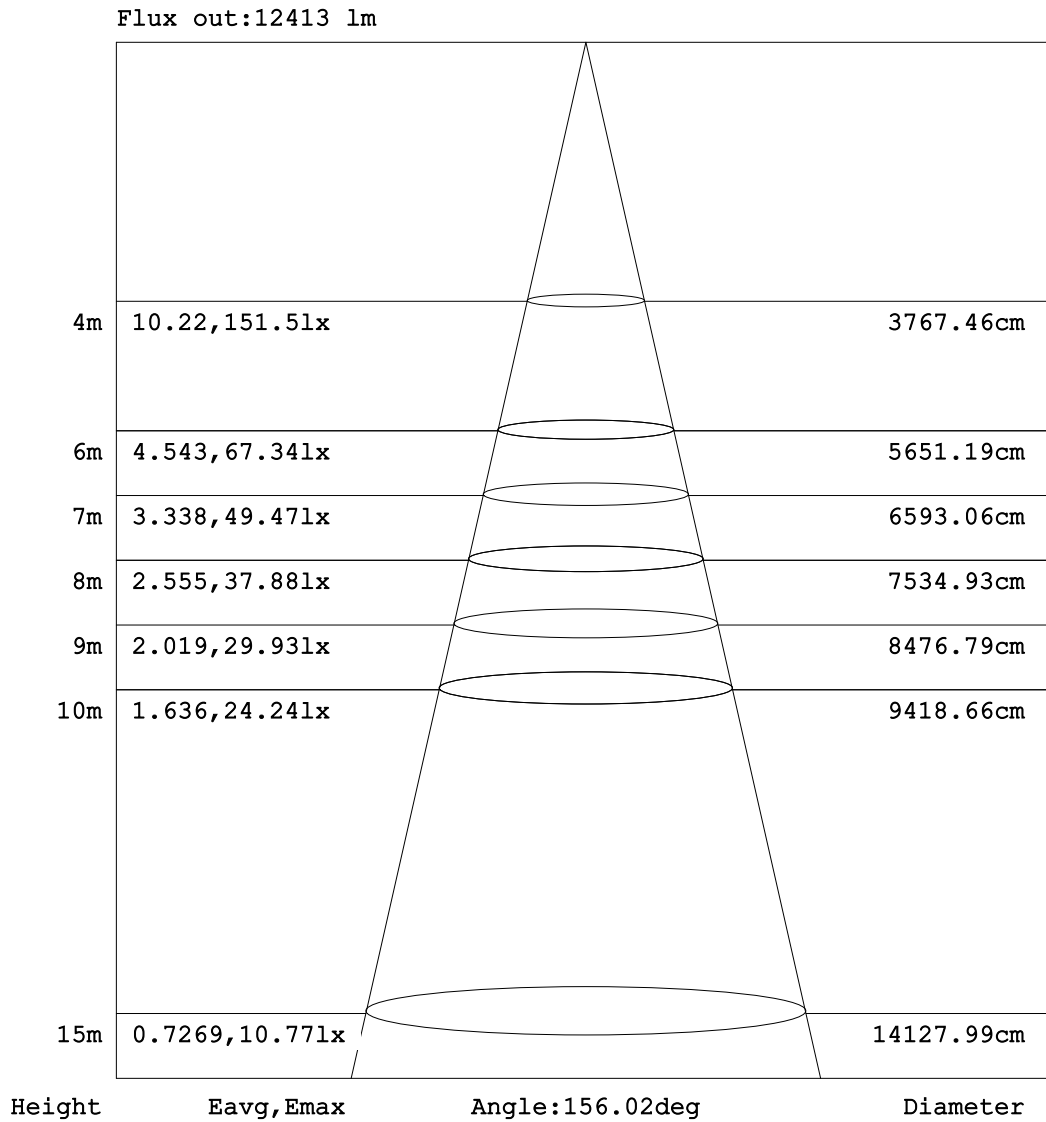
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:LYJ
 Test Date:2023-05-09

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

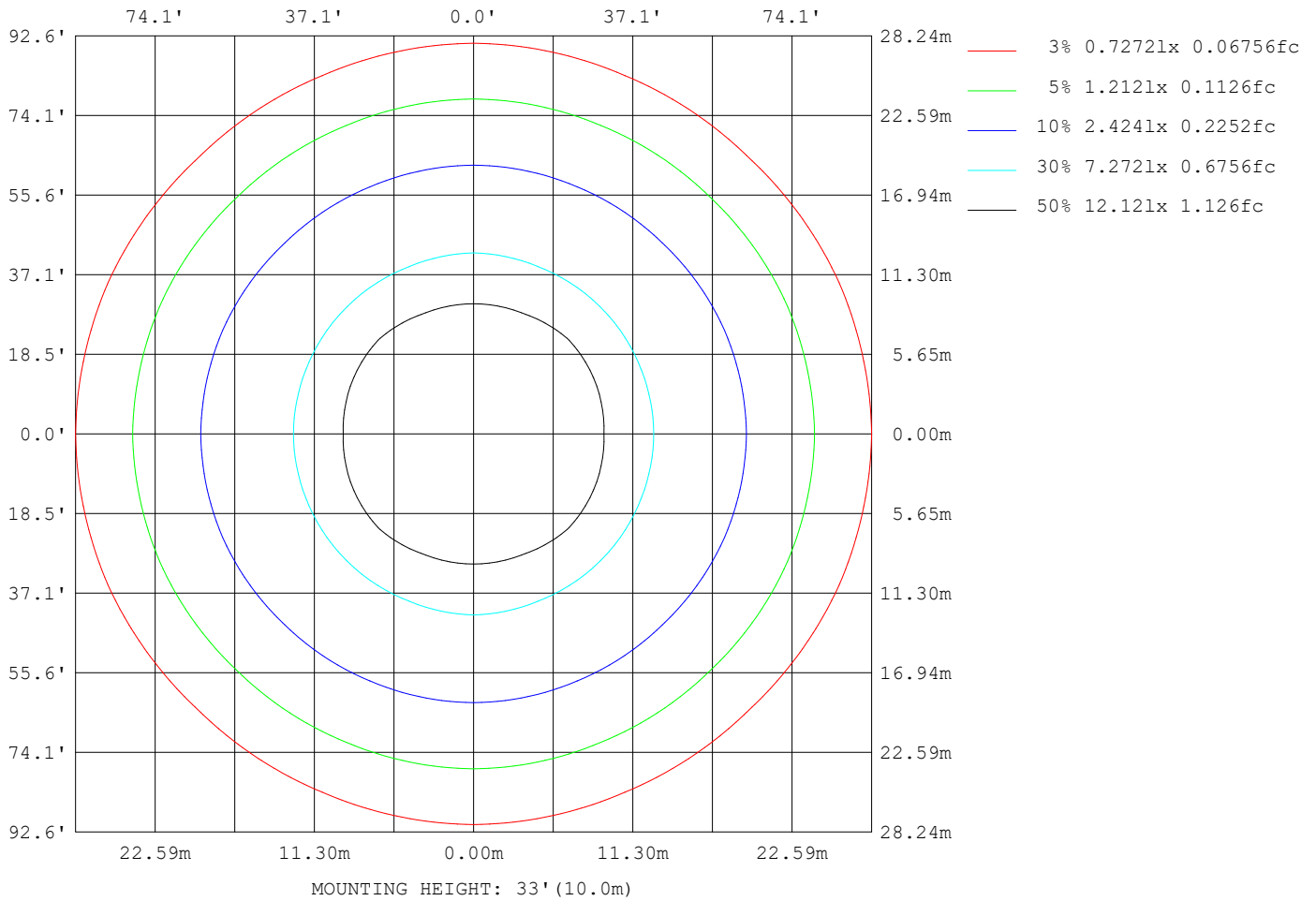


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: LYJ
 Test Date: 2023-05-09

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:

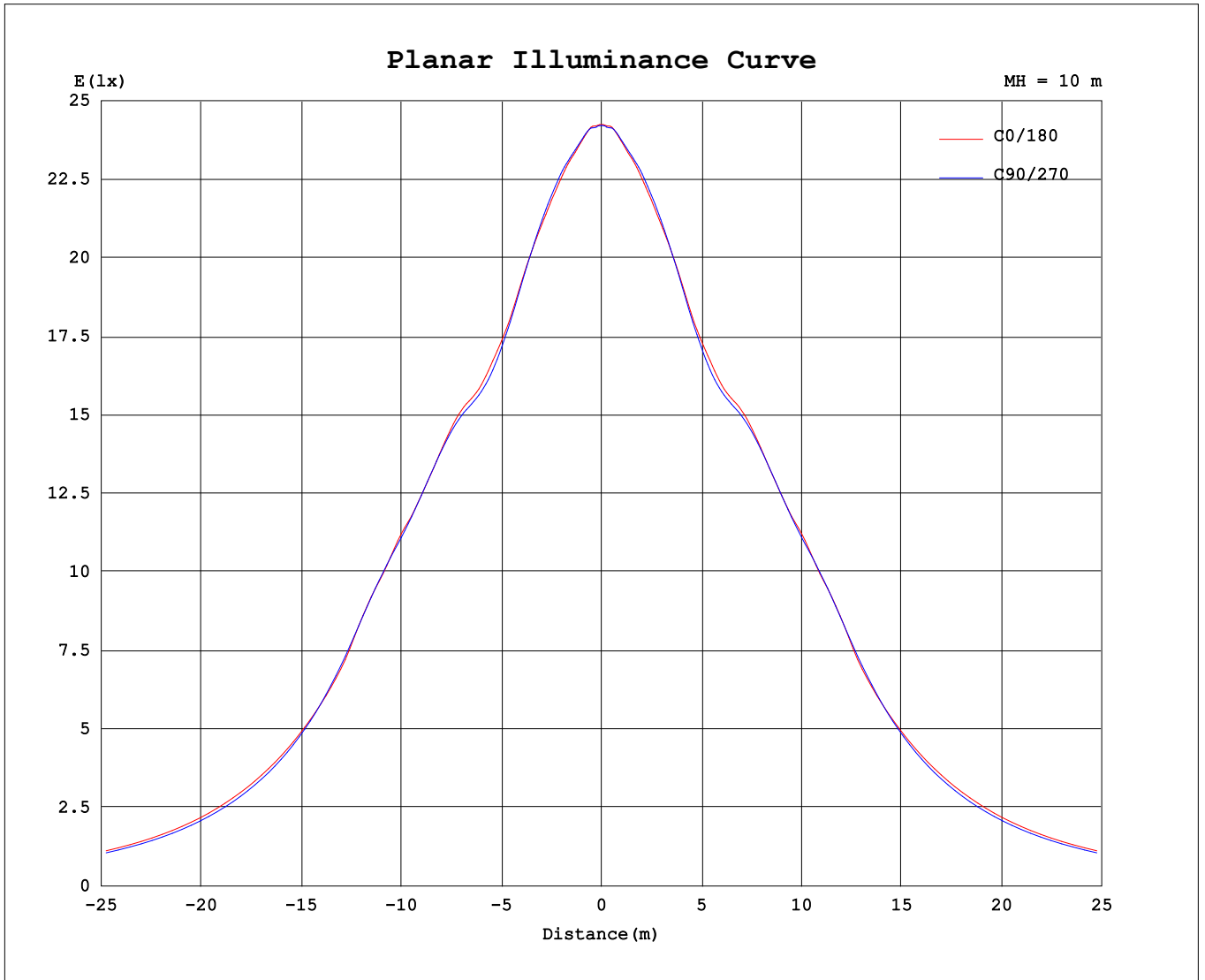
ISOLUX DIAGRAM



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: LYJ
 Test Date: 2023-05-09

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: 2023-05-09

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: