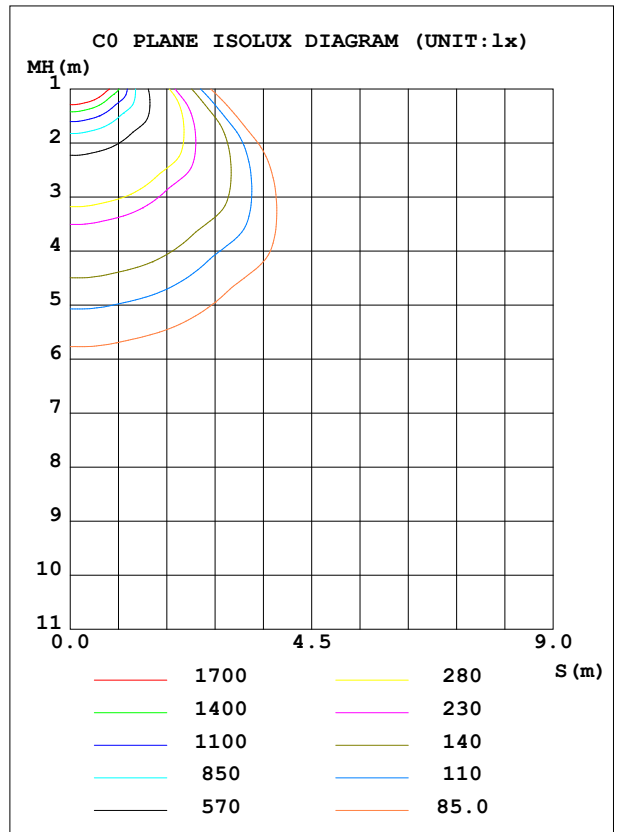
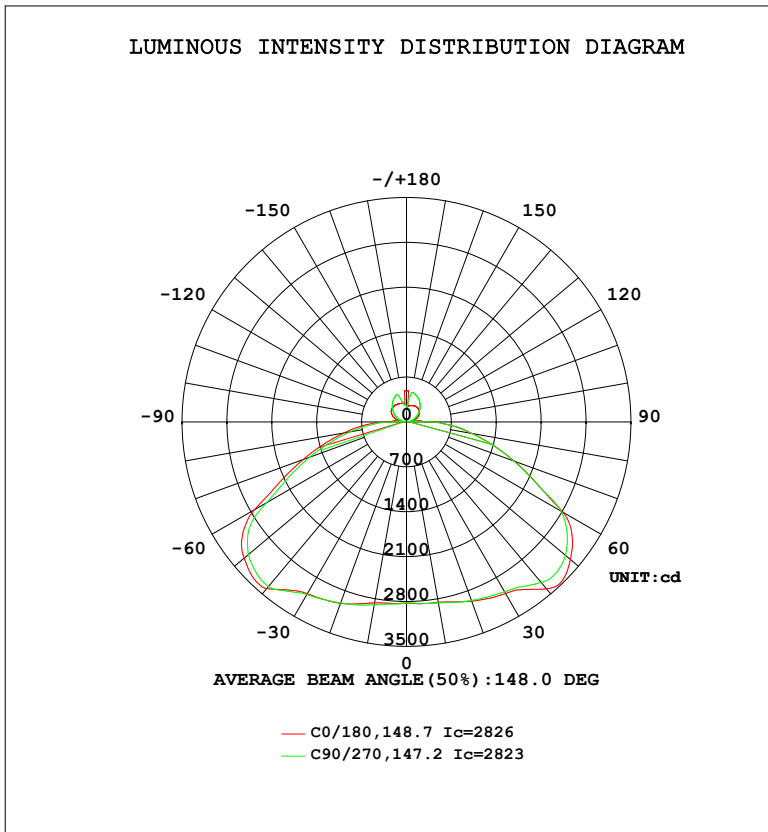


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.837A P:100.0W PF:0.996 Freq:50.00Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:15522x1 lm		
NAME: CP10-100-5070-A00C07	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 155.22 lm/W			
MODEL	/	Imax (cd)	3473	S/MH (C0/180)	1.79
NOMINAL POWER (W)	/	LOR (%)	100.0	S/MH (C90/270)	1.77
RATED VOLTAGE (V)	/	TOTAL FLUX (lm)	15522	η UP, DN (C0-180)	4.6, 46.0
NOMINAL FLUX (lm)	15522	CIE CLASS	DIRECT	η UP, DN (C180-360)	4.7, 44.8
LAMPS INSIDE	1	η up (%)	9.3	CIBSE SHR NOM	1.75
TEST VOLTAGE (V)	/	η down (%)	90.7	CIBSE SHR MAX	1.75



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	2856	2852	2865	2863	2865	2874	2893	2875	0- 10	272.1	272.1	1.75,1.75
20	2974	2962	2962	2977	3009	2989	3004	2966	10- 20	830.1	1102	7.1,7.1
30	3090	3059	3057	3066	3093	3123	3109	3065	20- 30	1403	2506	16.1,16.1
40	3397	3339	3267	3340	3392	3430	3350	3343	30- 40	2011	4516	29.1,29.1
50	3337	3308	3234	3214	3304	3289	3214	3198	40- 50	2589	7106	45.8,45.8
60	2816	2794	2789	2696	2738	2552	2516	2505	50- 60	2713	9819	63.3,63.3
70	1791	1803	1775	1705	1717	1623	1606	1622	60- 70	2127	11946	77,77
80	1038	1051	1027	973.1	989.5	918.1	892.0	920.3	70- 80	1401	13347	86,86
90	332.4	474.5	426.4	417.4	274.4	292.0	216.3	282.4	80- 90	736.7	14084	90.7,90.7
100	109.5	91.24	45.60	92.67	136.7	122.8	63.16	88.25	90-100	193.5	14277	92,92
110	167.3	143.7	112.9	145.7	208.7	183.8	132.3	136.9	100-110	131.1	14409	92.8,92.8
120	224.2	192.0	187.3	190.9	270.2	231.9	205.0	178.8	110-120	181.4	14590	94,94
130	261.3	225.2	261.6	221.2	303.6	261.6	277.9	207.1	120-130	208.2	14798	95.3,95.3
140	279.9	254.0	332.3	323.6	314.4	289.2	345.8	256.2	130-140	216.0	15014	96.7,96.7
150	282.0	413.8	394.5	414.0	313.0	398.5	405.6	426.6	140-150	212.8	15227	98.1,98.1
160	271.1	327.2	443.3	303.8	305.7	286.7	451.6	421.5	150-160	170.3	15397	99.2,99.2
170	257.4	257.8	459.0	278.7	296.1	284.6	297.7	318.6	160-170	95.54	15493	99.8,99.8
180	484.3	487.6	191.7	425.0	484.8	488.0	191.6	425.3	170-180	29.21	15522	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 5764.2 lm

%lum = 37.1%

%lamp = 37.1%

Conical surface Flux(120deg): 9819.2 lm

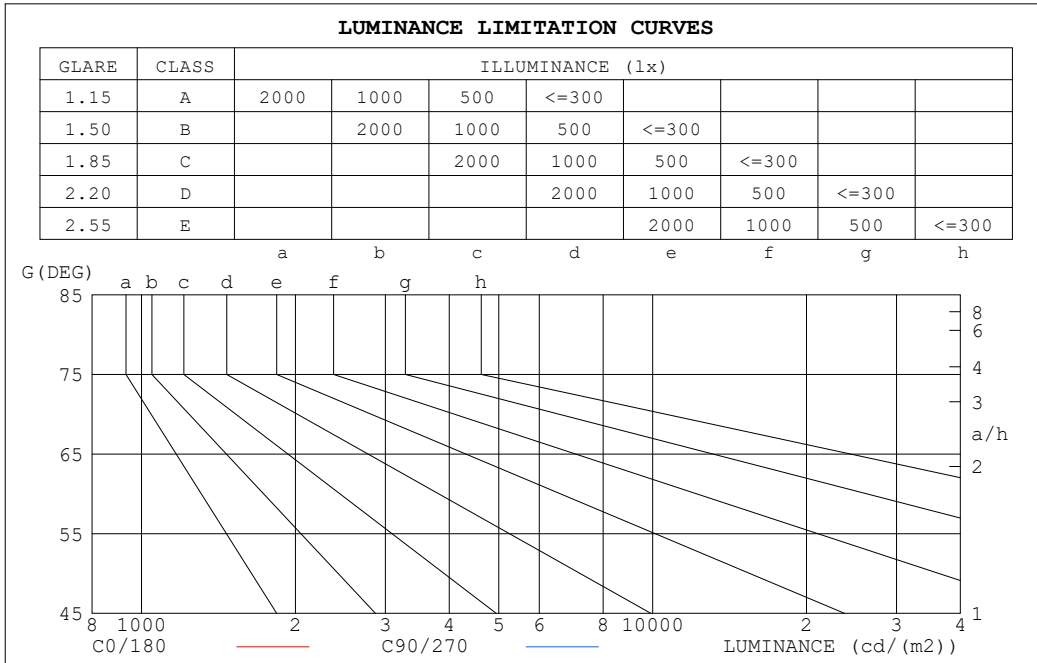
%lum = 63.3%

%lamp = 63.3%

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	119706	118935
80	84673	83611
75	76394	75722
70	74159	73381
65	74433	73879
60	79746	78866
55	77930	75466
50	73507	71145
45	69268	66246

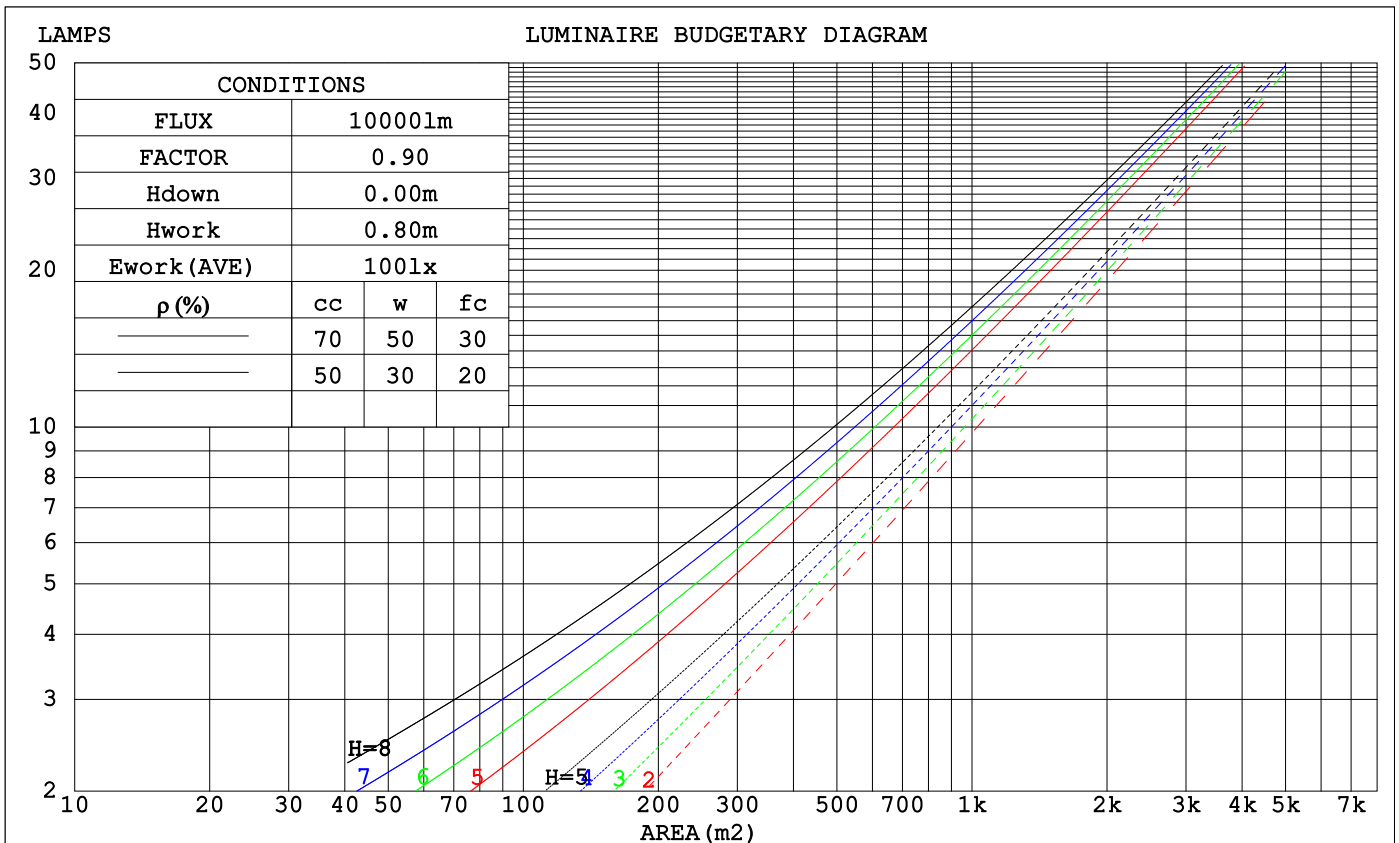
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: LYJ
 Test Date: 2023-08-09

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	1.17	1.17	1.17	1.13	1.13	1.13	1.06	1.06	1.06	.99	.99	.99	.94	.94	.94	.91
1.0	.99	.94	.89	.96	.91	.87	.90	.86	.82	.84	.81	.78	.79	.76	.74	.71
2.0	.84	.77	.70	.82	.74	.68	.76	.71	.65	.72	.67	.63	.67	.63	.60	.57
3.0	.73	.64	.56	.70	.62	.55	.66	.59	.53	.62	.56	.51	.58	.53	.49	.46
4.0	.63	.54	.46	.61	.52	.46	.58	.50	.44	.54	.48	.42	.51	.45	.41	.38
5.0	.56	.46	.39	.54	.45	.38	.51	.43	.37	.48	.41	.36	.45	.39	.34	.32
6.0	.50	.40	.33	.48	.39	.33	.45	.37	.32	.43	.36	.31	.40	.34	.30	.27
7.0	.45	.35	.29	.43	.34	.28	.41	.33	.27	.39	.32	.26	.36	.30	.26	.23
8.0	.40	.31	.25	.39	.31	.25	.37	.29	.24	.35	.28	.23	.33	.27	.23	.20
9.0	.37	.28	.22	.36	.27	.22	.34	.26	.21	.32	.25	.21	.30	.24	.20	.18
10.0	.33	.25	.20	.33	.25	.19	.31	.24	.19	.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	.364	.207	.066	.354	.202	.064	.336	.193	.061	.318	.184	.059	.302	.175	.057	
2.0	.329	.180	.055	.320	.176	.054	.303	.169	.052	.288	.161	.050	.273	.155	.049	
3.0	.298	.159	.048	.290	.155	.047	.275	.149	.045	.261	.143	.044	.248	.137	.042	
4.0	.271	.141	.041	.264	.138	.041	.250	.133	.040	.238	.128	.038	.226	.123	.037	
5.0	.248	.126	.037	.242	.124	.036	.229	.119	.035	.218	.115	.034	.207	.111	.033	
6.0	.228	.114	.033	.222	.112	.032	.211	.108	.031	.201	.104	.031	.191	.100	.030	
7.0	.211	.104	.030	.206	.102	.029	.195	.099	.028	.186	.095	.028	.177	.092	.027	
8.0	.196	.096	.027	.191	.094	.027	.182	.091	.026	.173	.088	.025	.165	.085	.025	
9.0	.183	.088	.025	.178	.087	.024	.170	.084	.024	.162	.081	.023	.154	.078	.023	
10.0	.171	.082	.023	.167	.081	.022	.159	.078	.022	.152	.075	.021	.145	.073	.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	.261	.261	.261	.223	.223	.223	.152	.152	.152	.087	.087	.087	.028	.028	.028	
1.0	.255	.227	.201	.218	.195	.173	.149	.134	.120	.086	.078	.070	.028	.025	.023	
2.0	.249	.203	.165	.213	.175	.143	.146	.121	.100	.084	.070	.058	.027	.023	.019	
3.0	.242	.187	.142	.207	.161	.123	.142	.112	.087	.082	.065	.051	.026	.021	.017	
4.0	.235	.174	.127	.201	.150	.111	.138	.105	.078	.080	.061	.046	.026	.020	.015	
5.0	.227	.164	.117	.195	.142	.102	.134	.099	.072	.078	.058	.043	.025	.019	.014	
6.0	.220	.156	.110	.189	.135	.096	.130	.094	.068	.076	.056	.040	.024	.018	.013	
7.0	.213	.149	.105	.183	.129	.091	.127	.091	.065	.074	.053	.038	.024	.017	.013	
8.0	.206	.144	.101	.178	.125	.088	.123	.087	.062	.071	.052	.037	.023	.017	.012	
9.0	.200	.139	.097	.172	.120	.085	.119	.085	.060	.070	.050	.036	.023	.016	.012	
10.0	.194	.135	.095	.167	.117	.083	.116	.082	.059	.068	.049	.035	.022	.016	.012	

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		27.5	29.1	28.0	29.6	30.1	27.2	28.7	27.7	29.2	29.8
	3H	29.4	30.8	29.9	31.4	31.9	29.1	30.5	29.6	31.0	31.6
	4H	30.3	31.6	30.8	32.1	32.7	30.0	31.3	30.5	31.8	32.4
	6H	31.1	32.3	31.6	32.9	33.5	30.8	32.1	31.3	32.6	33.2
	8H	31.4	32.7	32.0	33.2	33.8	31.2	32.4	31.7	32.9	33.6
	12H	31.9	33.0	32.4	33.6	34.2	31.6	32.8	32.2	33.3	34.0
	4H 2H	28.1	29.5	28.7	30.0	30.6	27.8	29.1	28.3	29.6	30.2
	3H	30.3	31.4	30.8	32.0	32.6	30.0	31.1	30.5	31.7	32.3
	4H	31.3	32.4	31.9	32.9	33.6	31.0	32.1	31.6	32.6	33.3
	6H	32.3	33.2	32.9	33.8	34.5	32.0	32.9	32.6	33.5	34.2
	8H	32.8	33.7	33.4	34.3	34.9	32.5	33.4	33.1	34.0	34.6
	12H	33.3	34.1	33.9	34.7	35.4	33.0	33.8	33.6	34.4	35.1
	8H 4H	31.7	32.6	32.3	33.2	33.9	31.4	32.3	32.0	32.9	33.5
	6H	32.9	33.7	33.6	34.3	35.0	32.6	33.3	33.2	34.0	34.6
	8H	33.6	34.2	34.2	34.9	35.6	33.2	33.9	33.9	34.5	35.2
	12H	34.3	34.9	34.9	35.5	36.3	33.9	34.5	34.6	35.2	35.9
	12H 4H	31.8	32.6	32.4	33.2	33.9	31.5	32.3	32.1	32.9	33.6
	6H	33.1	33.8	33.7	34.4	35.1	32.7	33.4	33.4	34.0	34.8
	8H	33.8	34.4	34.5	35.1	35.8	33.4	34.0	34.1	34.7	35.4
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

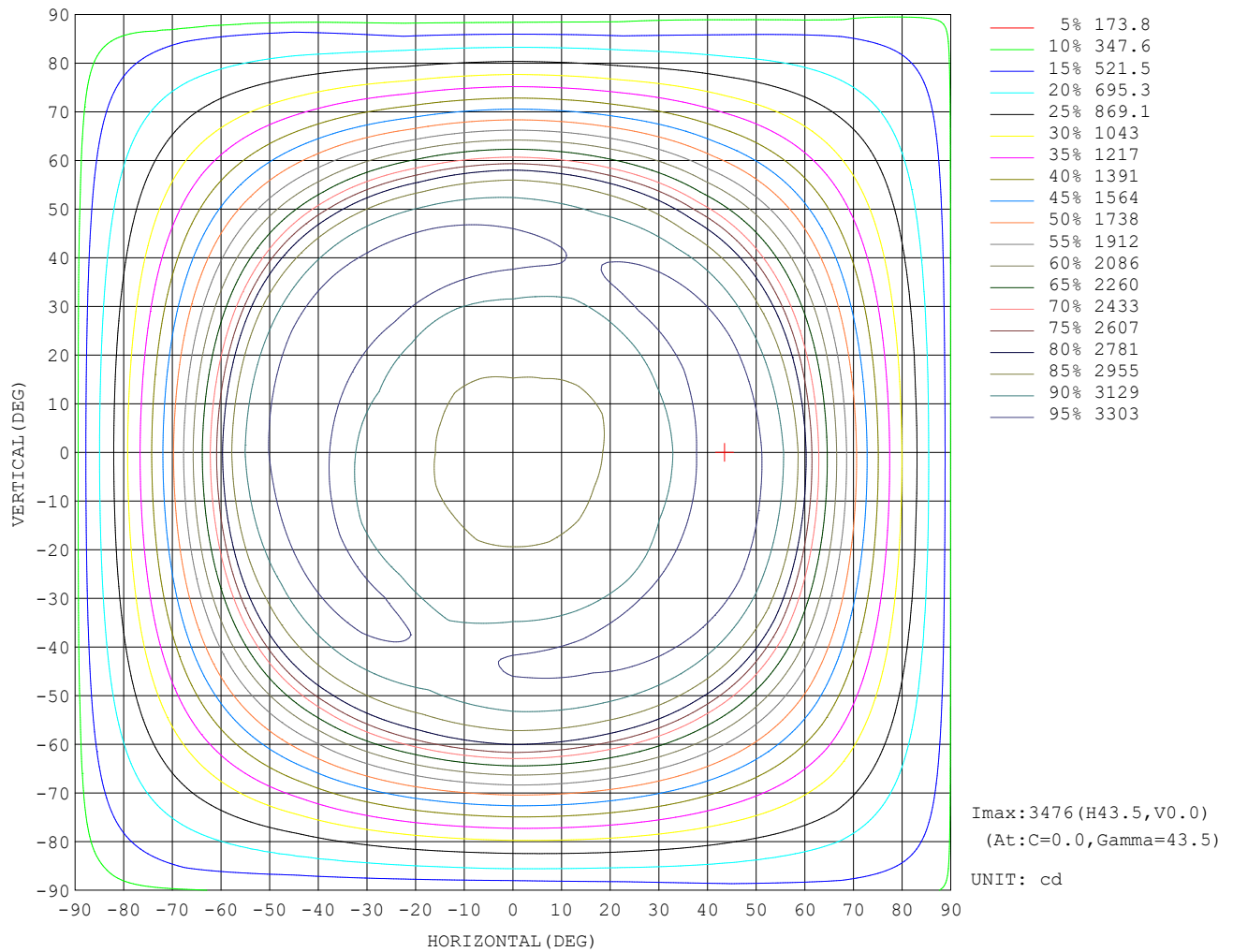
UTILIZATION FACTORS TABLE

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	28	47	35	28	45	34	27	20
0.80	58	45	37	57	44	37	54	43	36	28
1.00	67	54	46	65	53	45	62	54	44	36
1.25	75	62	54	72	61	53	69	59	52	43
1.50	80	68	60	78	67	59	73	64	57	48
2.00	88	77	70	85	76	68	80	72	66	56
2.50	92	83	76	89	81	74	84	77	71	60
3.00	96	88	81	93	85	79	87	81	76	64
4.00	101	94	88	97	91	86	91	86	82	70
5.00	104	97	92	100	95	90	94	89	86	73
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:

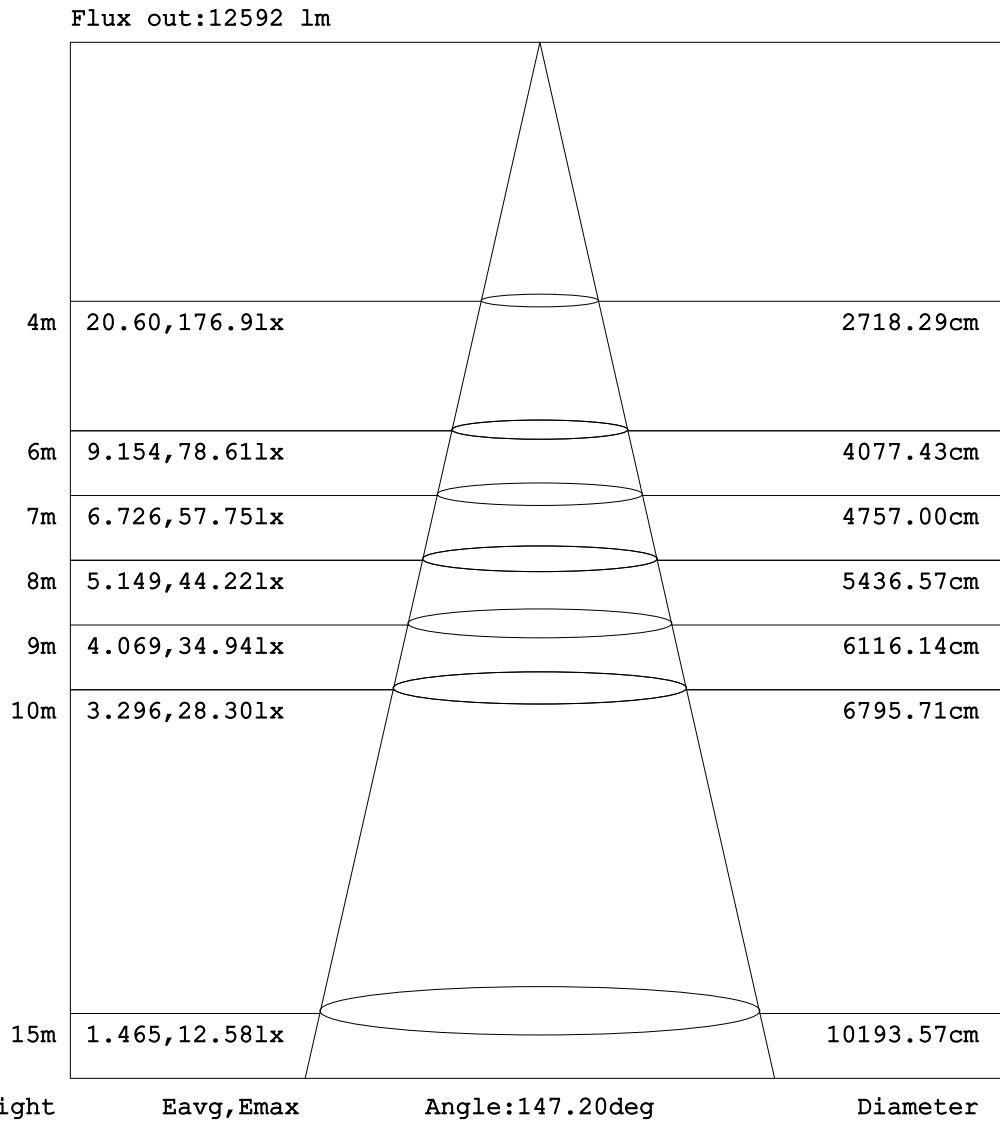
ISOCANDELA DIAGRAM



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

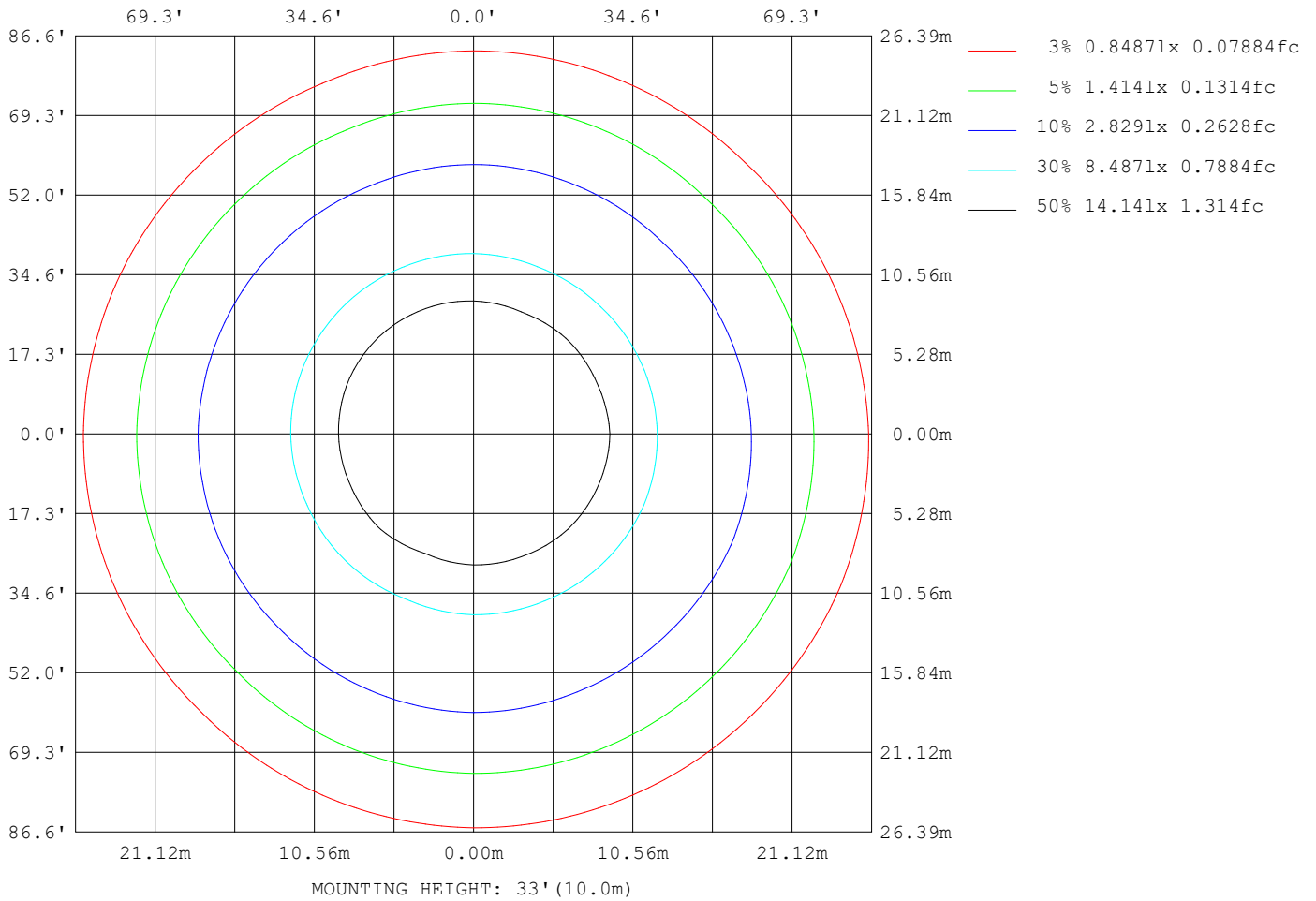


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:

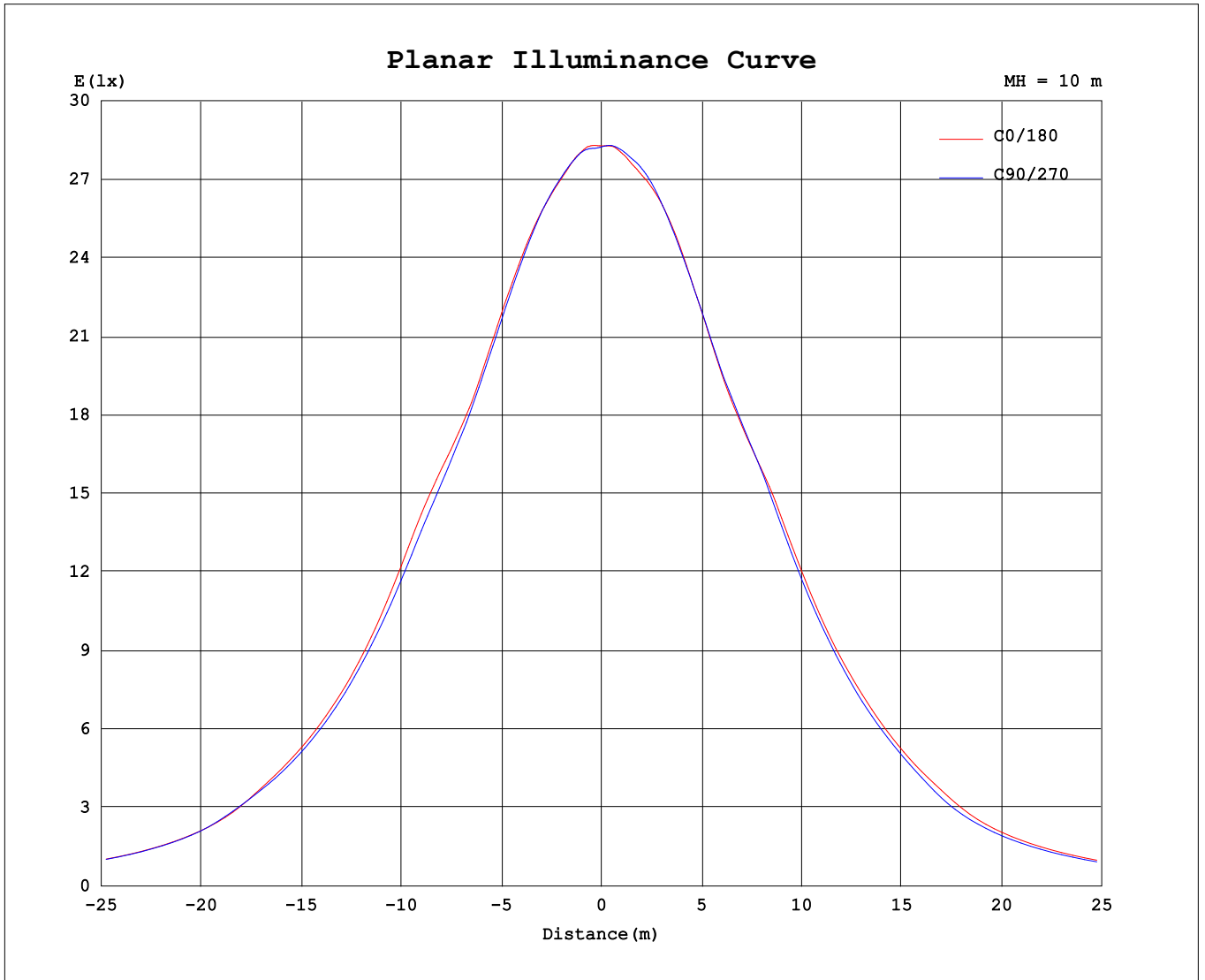
ISOLUX DIAGRAM



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: