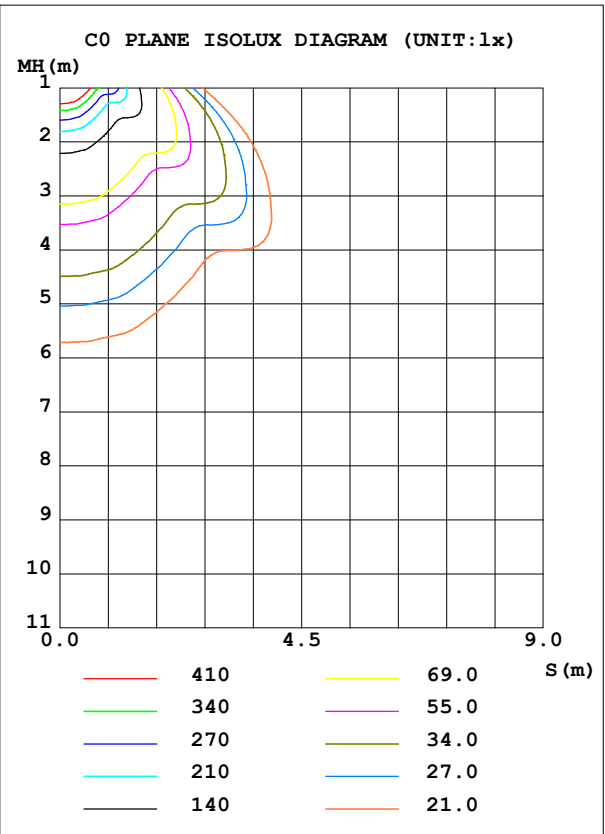
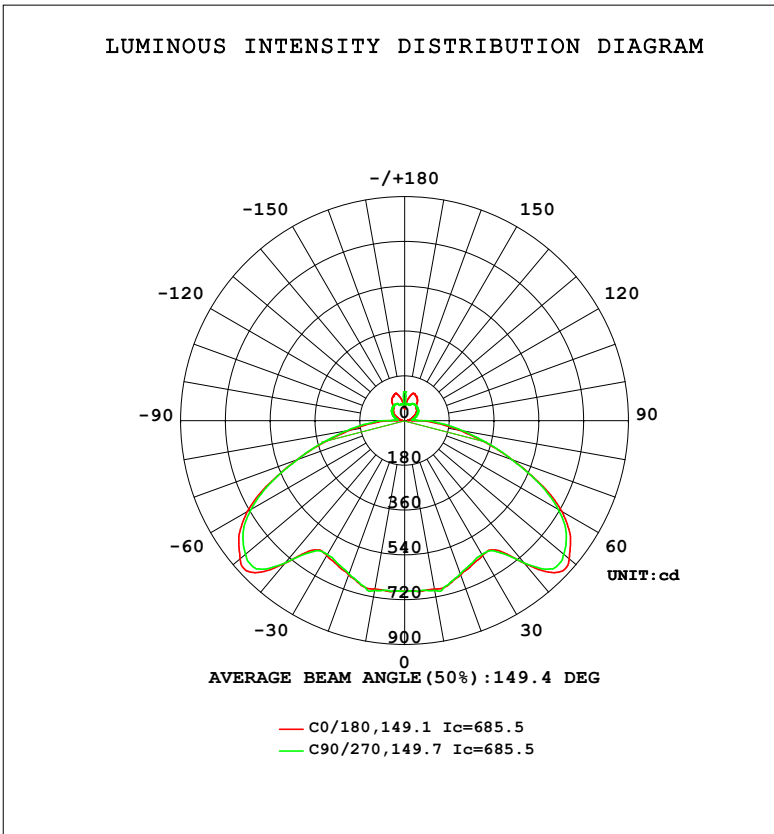


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.210A P:25.0W PF:0.992 Freq:50.00Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3722.43x1 lm		
NAME: CP10-025-5070-A00C09	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	/	Imax (cd)	877.8	S/MH(C0/180)	1.45
NOMINAL POWER (W)	/	LOR (%)	100.0	S/MH(C90/270)	1.52
RATED VOLTAGE (V)	/	TOTAL FLUX (lm)	3722.4	η UP, DN (C0-180)	4.4, 45.6
NOMINAL FLUX (lm)	3722.43	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	687.8	693.8	692.9	693.8	687.8	693.8	692.9	693.8	0- 10	65.76	65.76	1.77,1.77
20	659.6	657.6	656.0	657.6	659.6	657.6	656.0	657.6	10- 20	191.4	257.2	6.91,6.91
30	626.1	631.0	622.0	631.0	626.1	631.0	622.0	631.0	20- 30	295.5	552.7	14.8,14.8
40	747.7	746.1	745.5	746.1	747.7	746.1	745.5	746.1	30- 40	413.1	965.9	25.9,25.9
50	863.8	816.0	834.8	816.0	863.8	816.0	834.8	816.0	40- 50	637.2	1603	43.1,43.1
60	729.0	682.2	712.0	682.2	729.0	682.2	712.0	682.2	50- 60	695.4	2299	61.7,61.7
70	460.9	451.4	458.9	451.4	460.9	451.4	458.9	451.4	60- 70	574.5	2873	77.2,77.2
80	223.9	234.3	237.3	234.3	223.9	234.3	237.3	234.3	70- 80	357.1	3230	86.8,86.8
90	59.21	70.15	65.80	70.15	59.21	70.15	65.80	70.15	80- 90	162.1	3392	91.1,91.1
100	15.63	26.12	33.61	26.12	15.63	26.12	33.61	26.12	90-100	35.69	3428	92.1,92.1
110	32.76	38.89	47.06	38.89	32.76	38.89	47.06	38.89	100-110	34.38	3462	93,93
120	49.43	50.17	59.48	50.17	49.43	50.17	59.48	50.17	110-120	45.39	3508	94.2,94.2
130	64.20	58.73	68.81	58.73	64.20	58.73	68.81	58.73	120-130	49.77	3557	95.6,95.6
140	72.77	64.79	74.01	64.79	72.77	64.79	74.01	64.79	130-140	50.28	3608	96.9,96.9
150	102.4	68.88	76.34	68.88	102.4	68.88	76.34	68.88	140-150	46.68	3654	98.2,98.2
160	115.3	72.05	68.76	72.05	115.3	72.05	68.76	72.05	150-160	37.84	3692	99.2,99.2
170	92.13	71.60	68.07	71.60	92.13	71.60	68.07	71.60	160-170	23.32	3716	99.8,99.8
180	47.16	93.67	116.6	93.67	47.16	93.67	116.6	93.67	170-180	6.872	3722	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1262.2 lm

%lum = 33.9%

%lamp = 33.9%

Conical surface Flux(120deg): 2298.5 lm

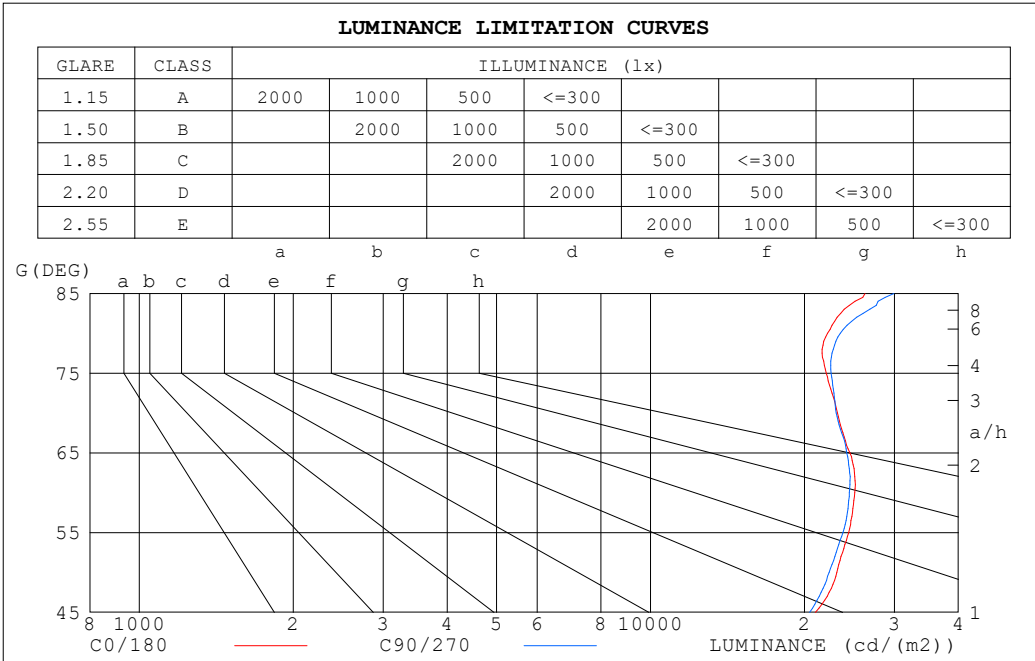
%lum = 61.7%

%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	26261	29928
80	22196	23507
75	22074	22562
70	23198	23077
65	24546	24217
60	25099	24495
55	24409	23773
50	23132	22340
45	21014	20485

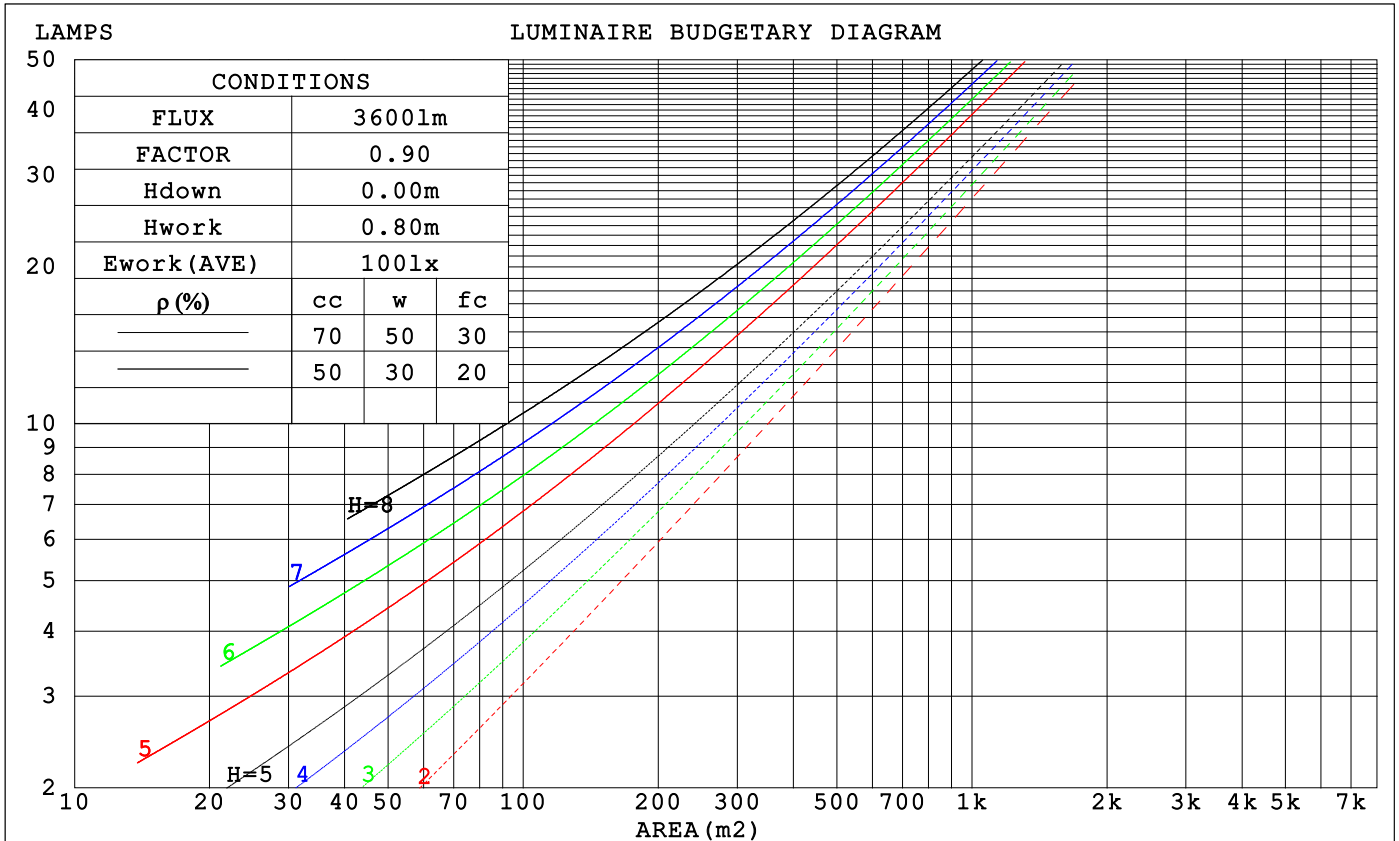
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: ZZK
 Test Date: 2023-08-10

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: 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

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		23.2	24.8	23.7	25.3	25.9	23.2	24.9	23.7	25.3	25.9	
	3H	25.2	26.7	25.7	27.2	27.8	25.2	26.7	25.7	27.2	27.8	
	4H	26.0	27.4	26.5	27.9	28.5	26.0	27.4	26.6	27.9	28.5	
	6H	26.7	28.0	27.2	28.5	29.1	26.8	28.1	27.3	28.6	29.2	
	8H	27.0	28.2	27.5	28.8	29.4	27.1	28.3	27.6	28.9	29.5	
	12H	27.2	28.4	27.8	29.0	29.6	27.4	28.6	28.0	29.1	29.8	
	4H	2H	23.9	25.3	24.5	25.9	26.4	24.0	25.3	24.5	25.9	26.4
		3H	26.2	27.4	26.7	27.9	28.5	26.2	27.4	26.7	27.9	28.5
		4H	27.1	28.2	27.7	28.8	29.4	27.2	28.2	27.7	28.8	29.4
		6H	27.9	28.9	28.5	29.5	30.1	28.0	29.0	28.6	29.6	30.2
		8H	28.3	29.2	28.9	29.8	30.4	28.4	29.3	29.0	29.9	30.6
		12H	28.6	29.5	29.2	30.1	30.7	28.8	29.6	29.4	30.3	30.9
	8H	4H	27.5	28.4	28.1	29.0	29.7	27.6	28.5	28.1	29.0	29.7
		6H	28.5	29.3	29.1	29.9	30.6	28.6	29.4	29.2	30.0	30.7
		8H	29.0	29.7	29.6	30.3	31.0	29.1	29.8	29.8	30.5	31.1
		12H	29.5	30.1	30.1	30.7	31.5	29.7	30.3	30.3	30.9	31.7
	12H	4H	27.6	28.4	28.2	29.0	29.7	27.6	28.4	28.2	29.1	29.7
		6H	28.6	29.3	29.3	29.9	30.7	28.7	29.4	29.4	30.0	30.7
		8H	29.2	29.8	29.8	30.4	31.2	29.3	29.9	30.0	30.6	31.3
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

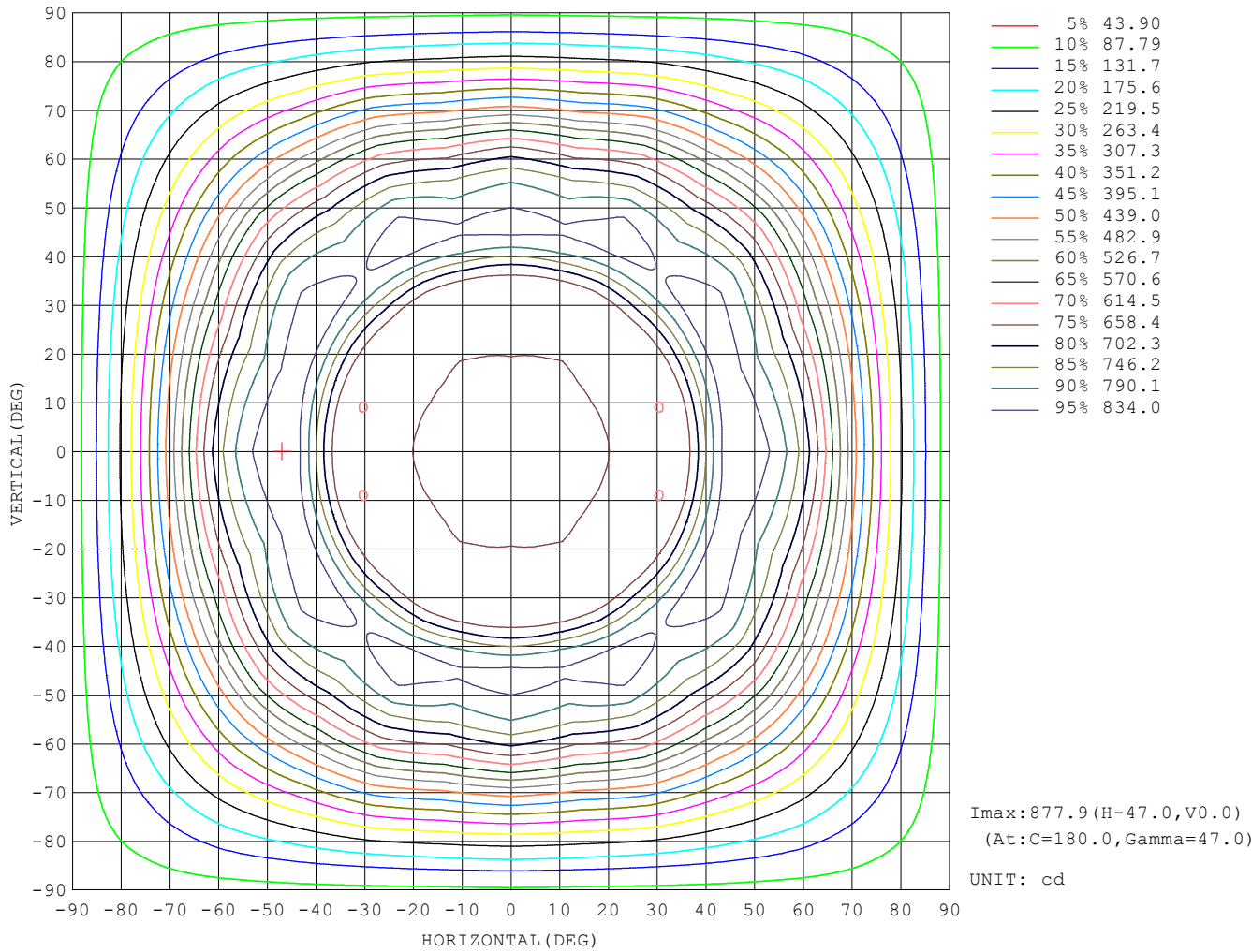
UTILIZATION FACTORS TABLE

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:

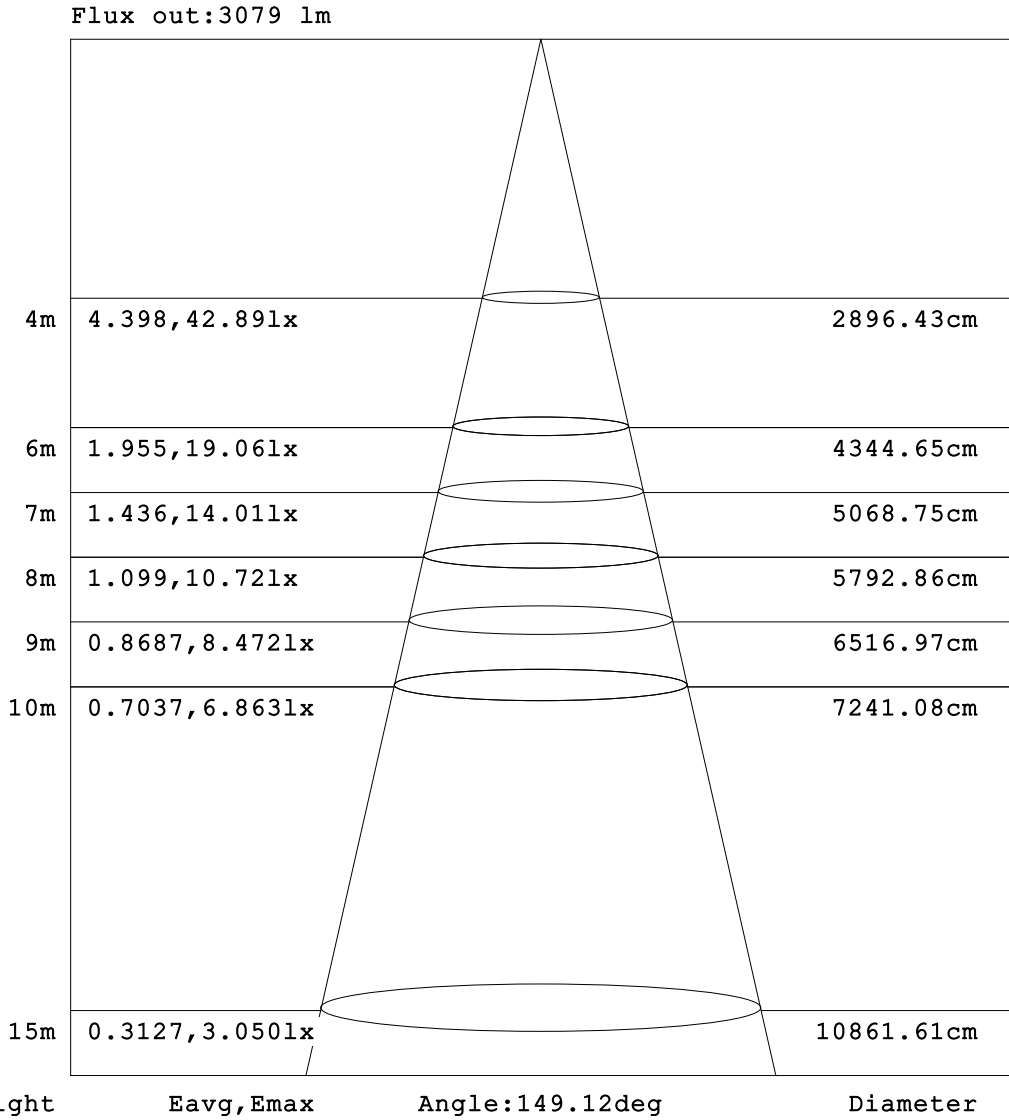
ISOCANDELA DIAGRAM



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



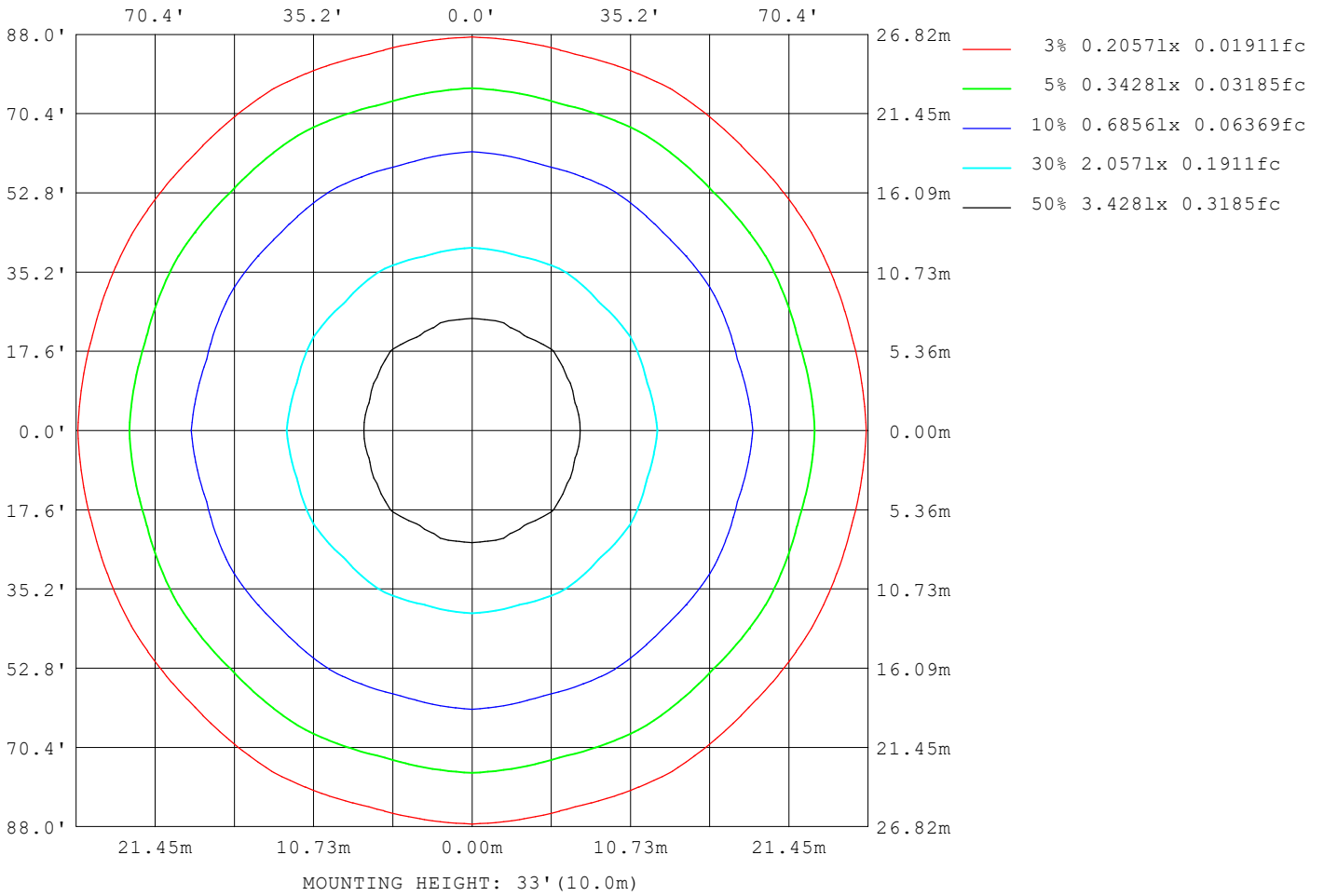
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

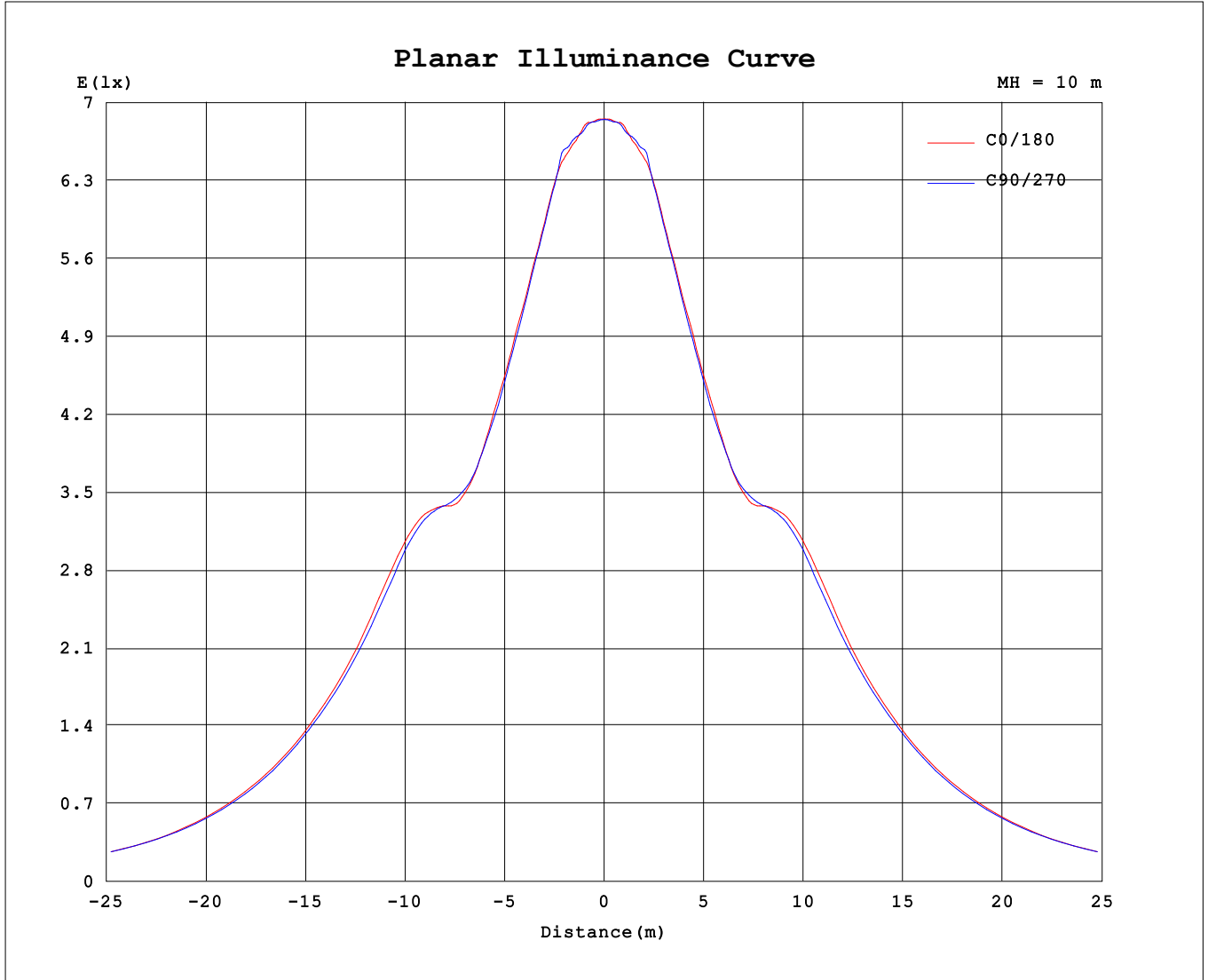
ISOLUX DIAGRAM



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:

Planar Illuminance Curve



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: