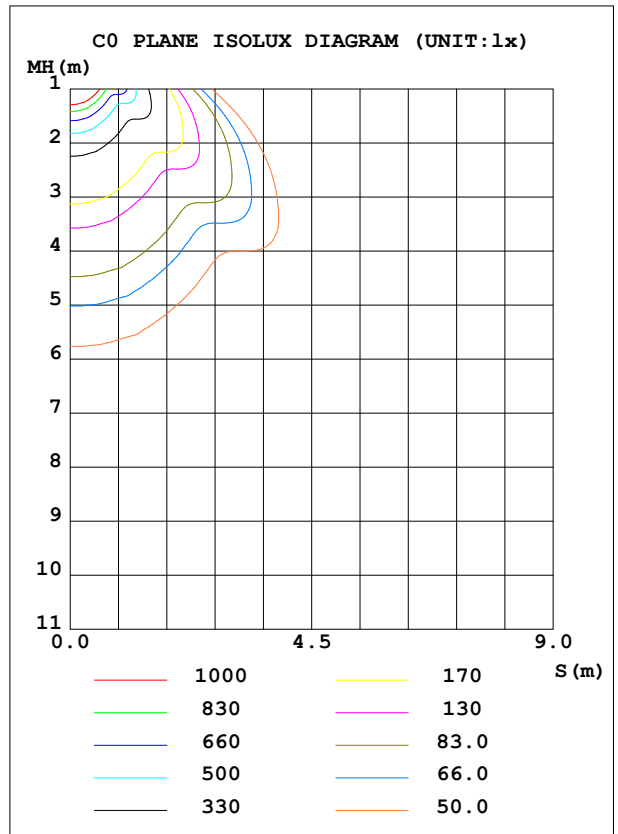
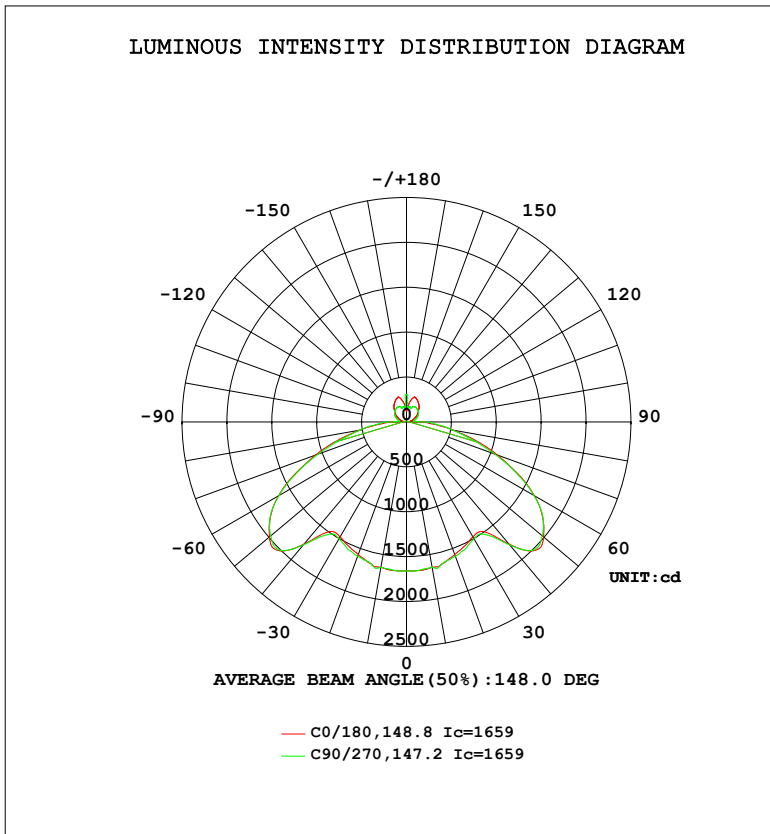


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

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:8991.33x1 lm		
NAME: CP10-060-3070-A00C09	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 149.86 lm/W			
MODEL	/	I _{max} (cd)	2156	S/MH (C0/180)	1.37
NOMINAL POWER (W)	/	LOR (%)	100.0	S/MH (C90/270)	1.45
RATED VOLTAGE (V)	/	TOTAL FLUX (lm)	8991.3	η UP, DN (C0-180)	4.6, 45.4
NOMINAL FLUX (lm)	8991.33	CIE CLASS	DIRECT	η UP, DN (C180-360)	4.6, 45.4
LAMPS INSIDE	1	η up (%)	9.3	CIBSE SHR NOM	2.00
TEST VOLTAGE (V)	/	η down (%)	90.7	CIBSE SHR MAX	2.00



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	1646	1662	1647	1662	1646	1662	1647	1662	0- 10	158.0	158.0	1.76,1.76
20	1571	1581	1592	1581	1571	1581	1592	1581	10- 20	458.0	616.0	6.85,6.85
30	1480	1495	1503	1495	1480	1495	1503	1495	20- 30	710.7	1327	14.8,14.8
40	1774	1771	1787	1771	1774	1771	1787	1771	30- 40	990.0	2317	25.8,25.8
50	1994	2085	1974	2085	1994	2085	1974	2085	40- 50	1546	3863	43,43
60	1645	1726	1638	1726	1645	1726	1638	1726	50- 60	1701	5563	61.9,61.9
70	1079	1096	1045	1096	1079	1096	1045	1096	60- 70	1380	6944	77.2,77.2
80	530.5	573.3	526.1	573.3	530.5	573.3	526.1	573.3	70- 80	834.9	7778	86.5,86.5
90	137.3	165.7	154.4	165.7	137.3	165.7	154.4	165.7	80- 90	379.9	8158	90.7,90.7
100	39.23	65.54	84.74	65.54	39.23	65.54	84.74	65.54	90-100	86.60	8245	91.7,91.7
110	82.42	97.75	118.9	97.75	82.42	97.75	118.9	97.75	100-110	86.56	8331	92.7,92.7
120	124.7	125.9	149.9	125.9	124.7	125.9	149.9	125.9	110-120	114.3	8446	93.9,93.9
130	171.4	147.8	173.2	147.8	171.4	147.8	173.2	147.8	120-130	125.6	8571	95.3,95.3
140	218.5	163.3	187.0	163.3	218.5	163.3	187.0	163.3	130-140	128.2	8700	96.8,96.8
150	259.2	177.8	192.4	177.8	259.2	177.8	192.4	177.8	140-150	119.4	8819	98.1,98.1
160	290.6	182.2	165.1	182.2	290.6	182.2	165.1	182.2	150-160	96.55	8916	99.2,99.2
170	232.1	183.3	172.0	183.3	232.1	183.3	172.0	183.3	160-170	58.49	8974	99.8,99.8
180	118.5	235.8	302.8	235.8	118.5	235.8	302.8	235.8	170-180	17.28	8991	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 3032.2 lm

%lum = 33.7%

%lamp = 33.7%

Conical surface Flux(120deg): 5563.5 lm

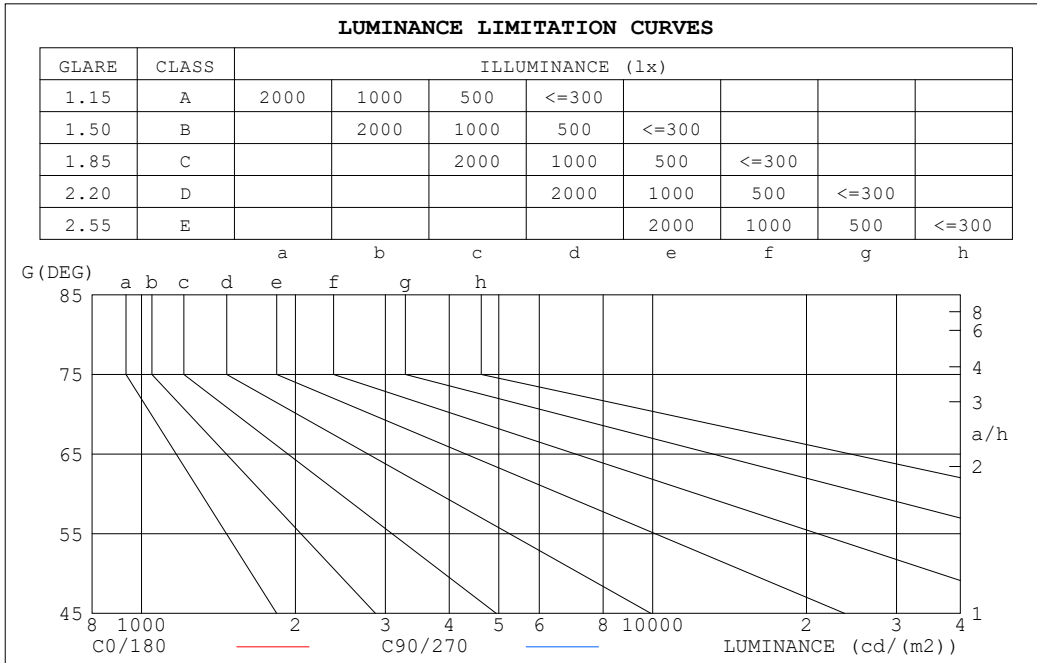
%lum = 61.9%

%lamp = 61.9%

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	60429	66916
80	52660	52115
75	53025	49979
70	54396	52576
65	55801	55126
60	56701	56362
55	55610	55674
50	53455	52822
45	49325	48991

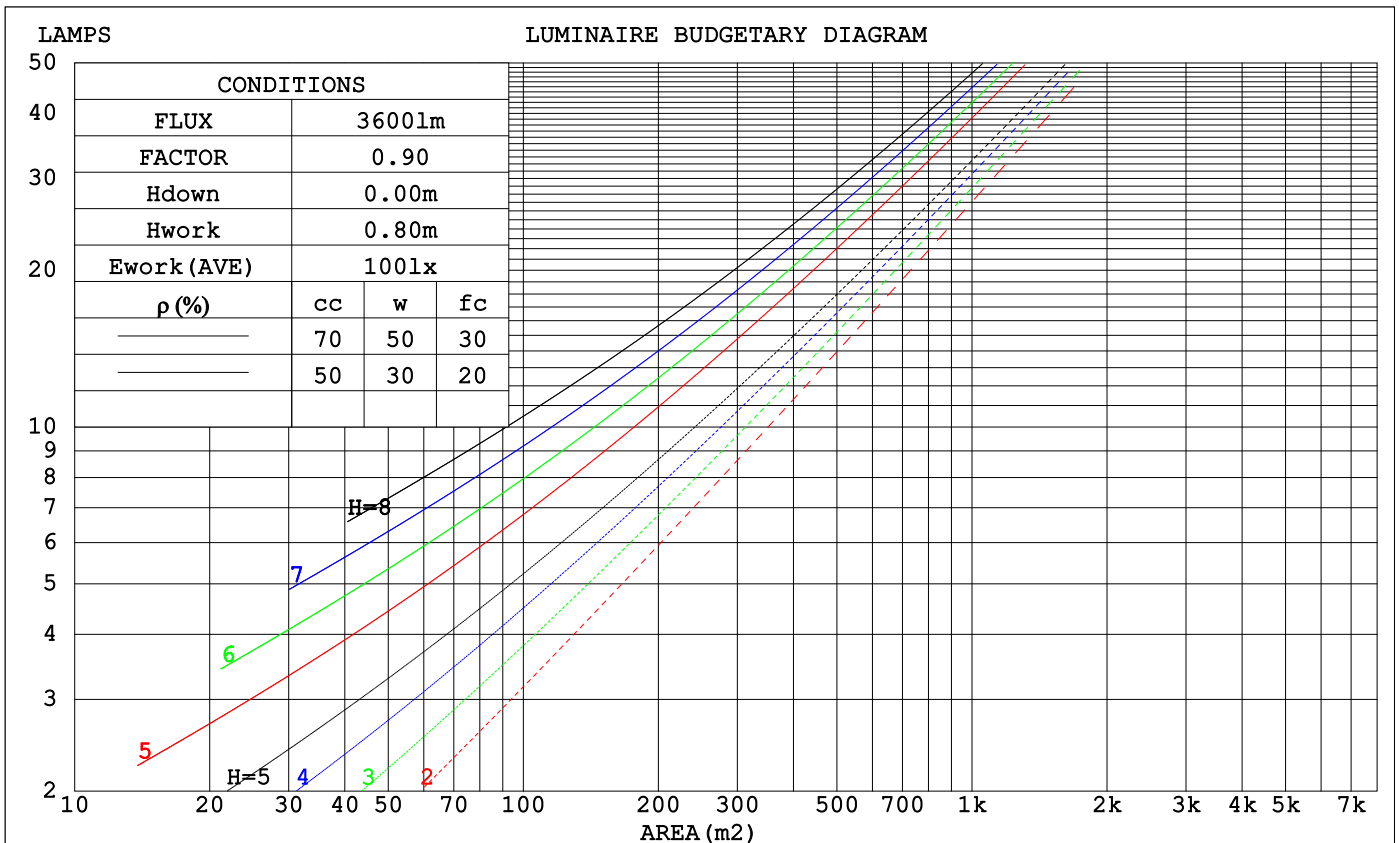
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: ZZK
 Test Date: 2023-08-10

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	.99	.99	.99	.94	.94	.94	.91
1.0	.99	.94	.89	.95	.91	.87	.89	.86	.82	.84	.81	.78	.79	.76	.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	.28	.22	.17	.27	.21	.17	.15



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

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	.366	.208	.066	.356	.203	.065	.338	.194	.062	.320	.185	.059	.304	.176	.057	
2.0	.334	.183	.056	.325	.179	.055	.308	.171	.053	.292	.164	.051	.278	.157	.050	
3.0	.303	.161	.048	.295	.158	.048	.280	.152	.046	.266	.145	.045	.252	.140	.043	
4.0	.276	.143	.042	.269	.141	.042	.255	.135	.040	.242	.130	.039	.230	.125	.038	
5.0	.252	.129	.037	.246	.126	.037	.233	.121	.036	.222	.117	.035	.211	.113	.034	
6.0	.232	.116	.033	.226	.114	.033	.214	.110	.032	.204	.106	.031	.194	.102	.030	
7.0	.214	.106	.030	.208	.104	.030	.198	.100	.029	.189	.097	.028	.180	.093	.027	
8.0	.198	.097	.027	.193	.095	.027	.184	.092	.026	.175	.089	.026	.167	.086	.025	
9.0	.185	.089	.025	.180	.088	.025	.172	.085	.024	.164	.082	.023	.156	.079	.023	
10.0	.173	.083	.023	.169	.081	.023	.161	.079	.022	.153	.076	.022	.146	.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	.261	.261	.261	.223	.223	.223	.152	.152	.152	.087	.087	.087	.028	.028	.028	
1.0	.255	.227	.201	.219	.195	.173	.149	.134	.120	.086	.077	.070	.028	.025	.023	
2.0	.249	.203	.165	.214	.175	.142	.146	.121	.099	.084	.070	.058	.027	.023	.019	
3.0	.243	.187	.142	.208	.161	.123	.143	.112	.086	.083	.065	.051	.027	.021	.017	
4.0	.236	.174	.127	.202	.150	.110	.139	.105	.078	.080	.061	.046	.026	.020	.015	
5.0	.228	.164	.117	.196	.142	.101	.135	.099	.072	.078	.058	.042	.025	.019	.014	
6.0	.221	.156	.109	.190	.135	.095	.131	.095	.067	.076	.056	.040	.025	.018	.013	
7.0	.214	.149	.104	.184	.130	.091	.127	.091	.064	.074	.054	.038	.024	.018	.013	
8.0	.207	.144	.100	.178	.125	.087	.123	.088	.062	.072	.052	.037	.023	.017	.012	
9.0	.201	.139	.097	.173	.121	.085	.120	.085	.060	.070	.050	.036	.023	.016	.012	
10.0	.195	.135	.095	.168	.117	.083	.117	.082	.059	.068	.049	.035	.022	.016	.012	

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	26.7	28.3	27.2	28.8	29.3	26.6	28.2	27.1	28.7	29.2
3H	28.5	30.0	29.0	30.5	31.1	28.5	29.9	29.0	30.4	31.0
4H	29.3	30.6	29.8	31.2	31.7	29.2	30.6	29.7	31.1	31.7
6H	29.9	31.2	30.4	31.7	32.3	29.8	31.1	30.3	31.6	32.2
8H	30.1	31.4	30.7	31.9	32.5	30.1	31.3	30.6	31.9	32.5
12H	30.4	31.6	30.9	32.1	32.7	30.4	31.6	30.9	32.1	32.7
4H 2H	27.3	28.7	27.9	29.2	29.8	27.3	28.7	27.8	29.2	29.8
3H	29.4	30.5	29.9	31.1	31.7	29.4	30.5	29.9	31.1	31.7
4H	30.2	31.3	30.8	31.9	32.5	30.2	31.3	30.8	31.9	32.5
6H	31.0	31.9	31.6	32.5	33.2	31.0	32.0	31.6	32.6	33.2
8H	31.3	32.2	31.9	32.8	33.5	31.4	32.3	32.0	32.9	33.5
12H	31.7	32.5	32.3	33.1	33.8	31.8	32.6	32.4	33.2	33.9
8H 4H	30.6	31.5	31.2	32.1	32.7	30.6	31.5	31.2	32.1	32.7
6H	31.5	32.3	32.2	32.9	33.6	31.6	32.3	32.2	33.0	33.6
8H	32.0	32.7	32.6	33.3	34.0	32.1	32.8	32.7	33.4	34.1
12H	32.5	33.1	33.1	33.7	34.4	32.6	33.2	33.2	33.8	34.6
12H 4H	30.7	31.5	31.3	32.1	32.8	30.6	31.4	31.2	32.1	32.7
6H	31.7	32.3	32.3	33.0	33.7	31.7	32.4	32.3	33.0	33.7
8H	32.2	32.8	32.8	33.4	34.2	32.3	32.9	32.9	33.5	34.3
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

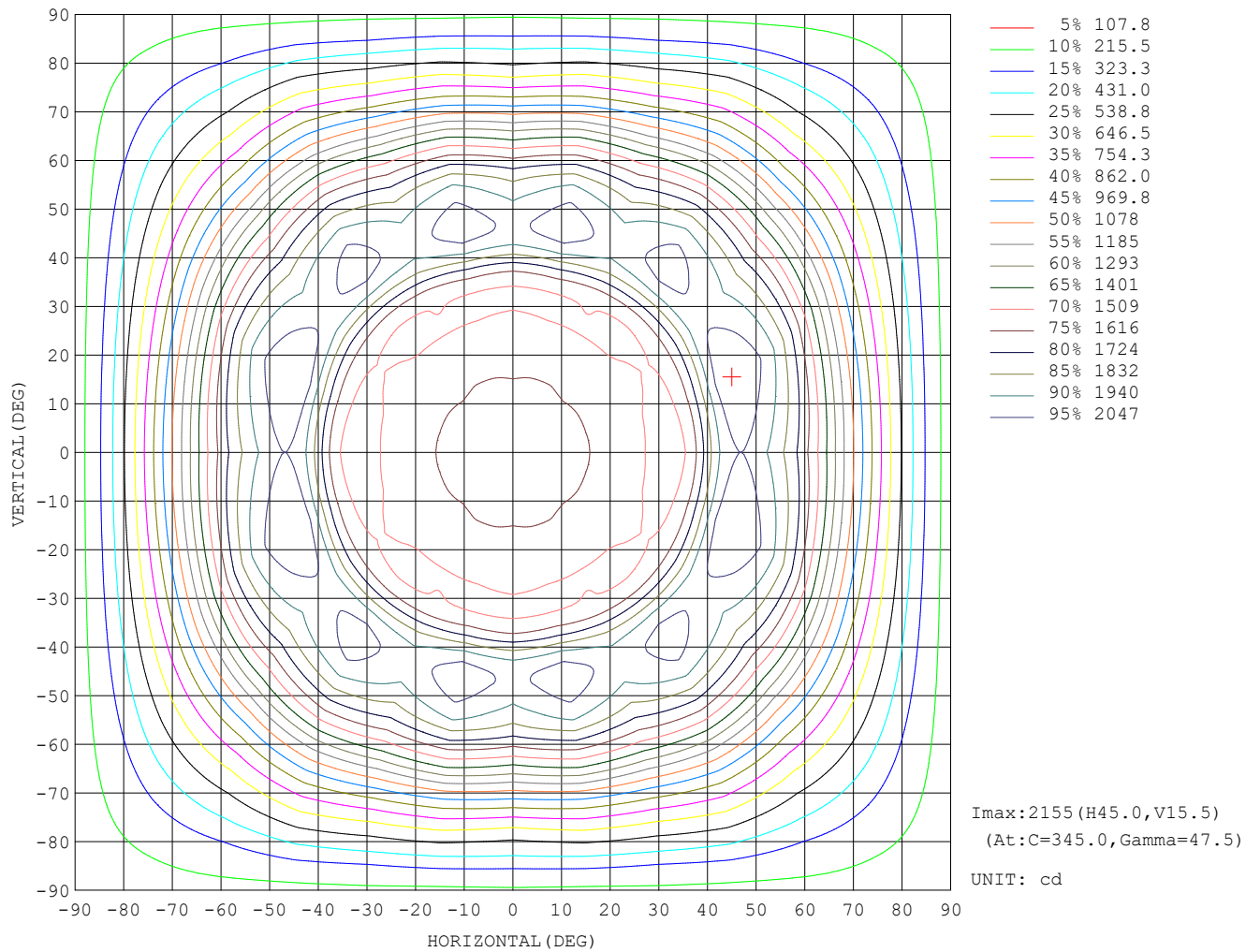
UTILIZATION FACTORS TABLE

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	56	43	34	55	42	34	52	41	33	25
1.00	65	52	44	64	51	43	60	52	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	69	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	94	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:

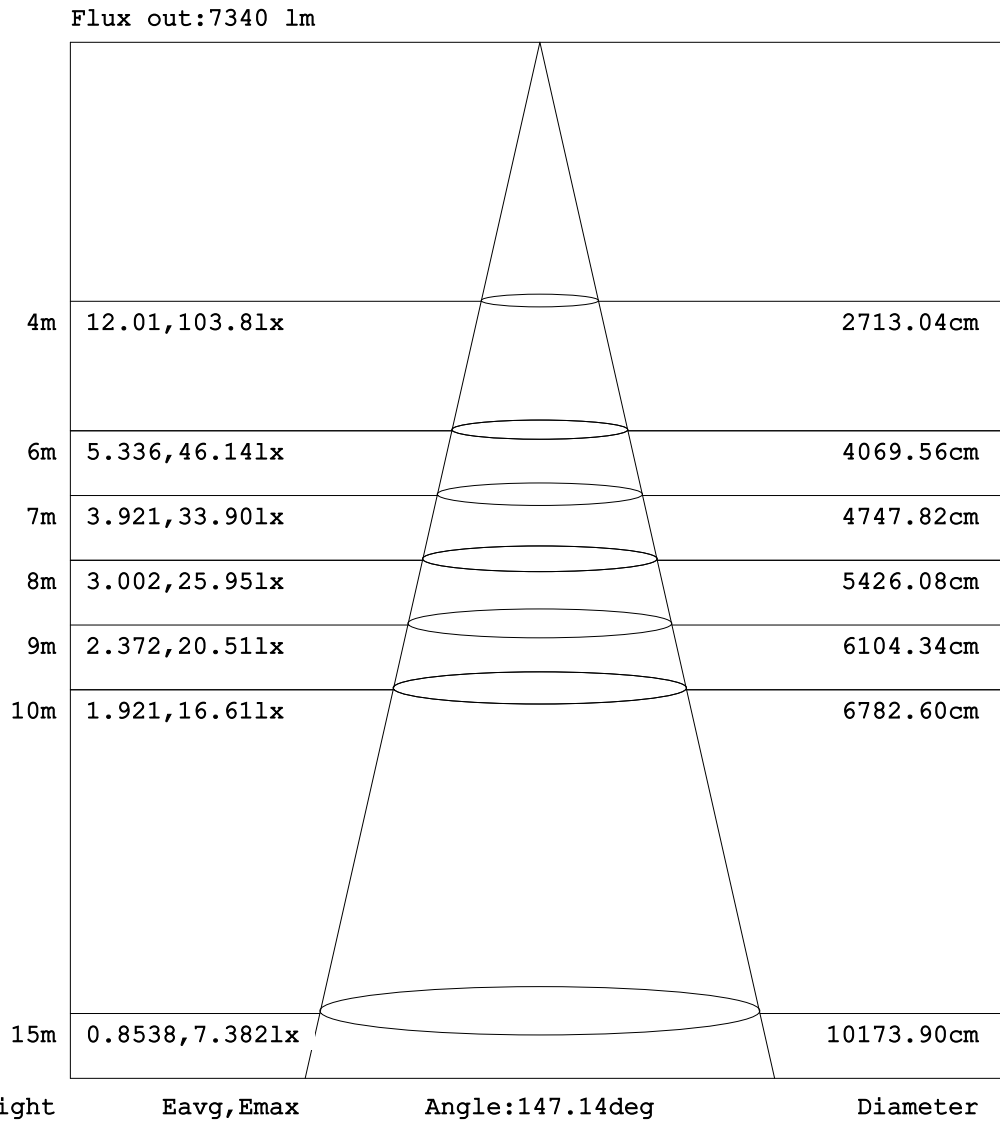
ISOCANDELA DIAGRAM



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

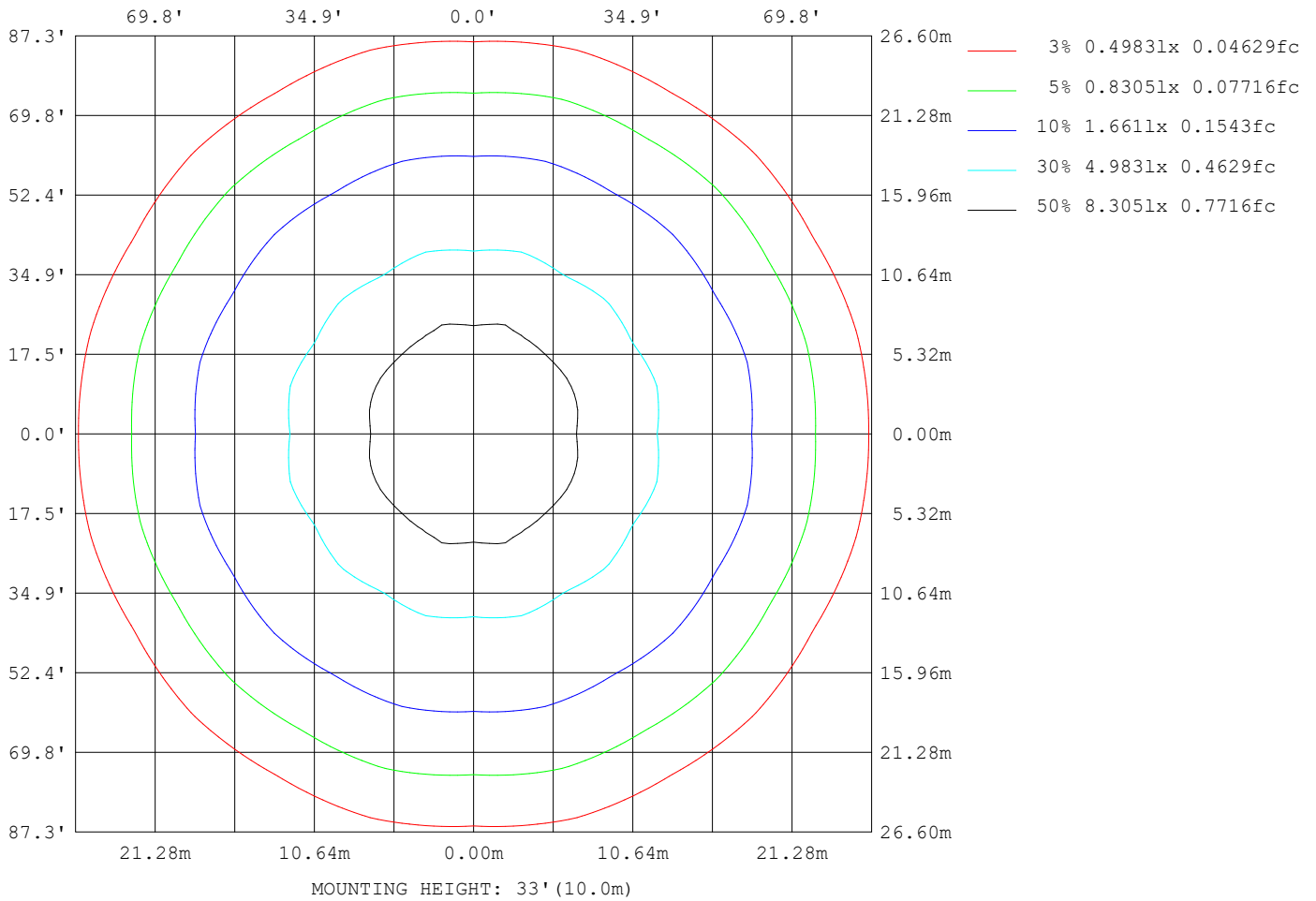


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:

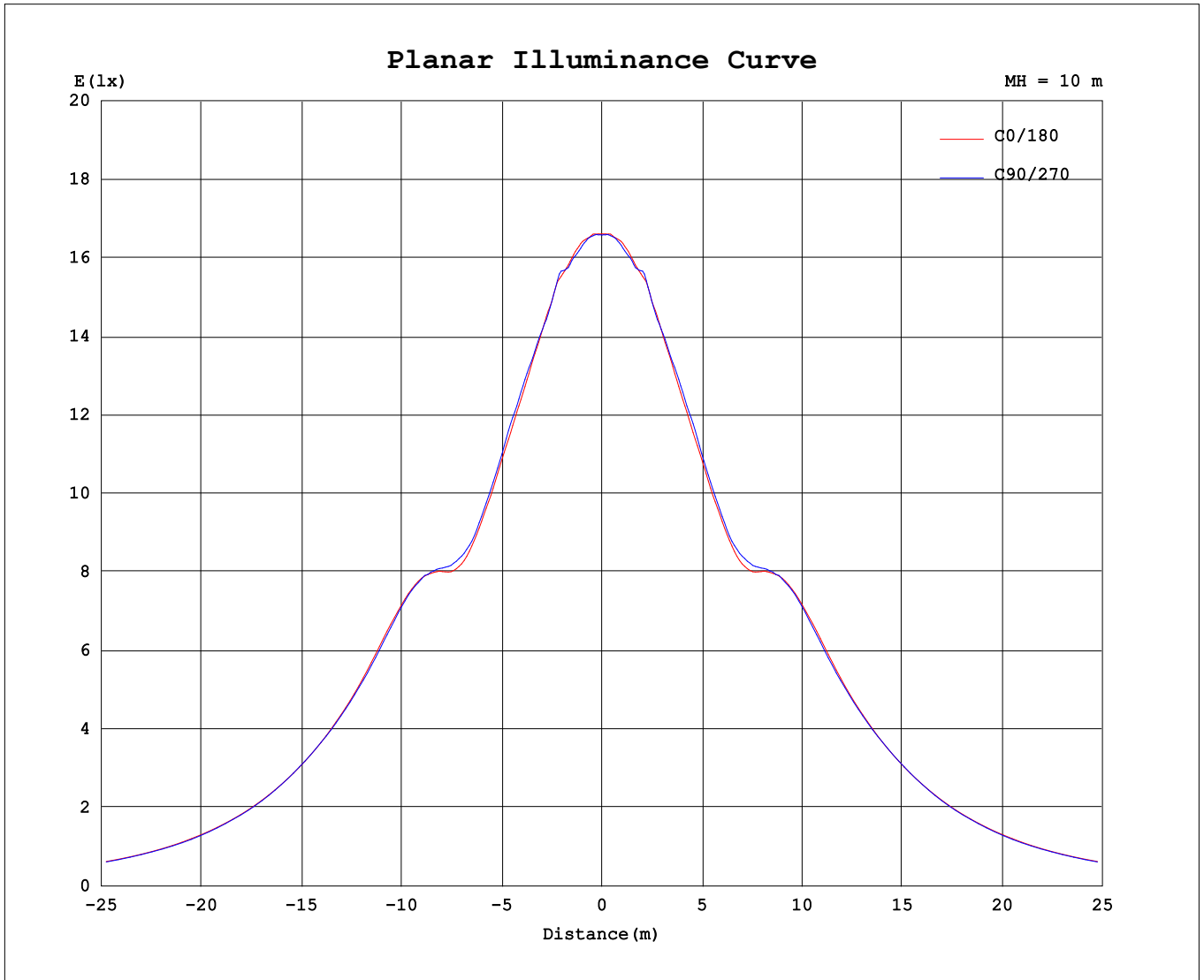
ISOLUX DIAGRAM



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: