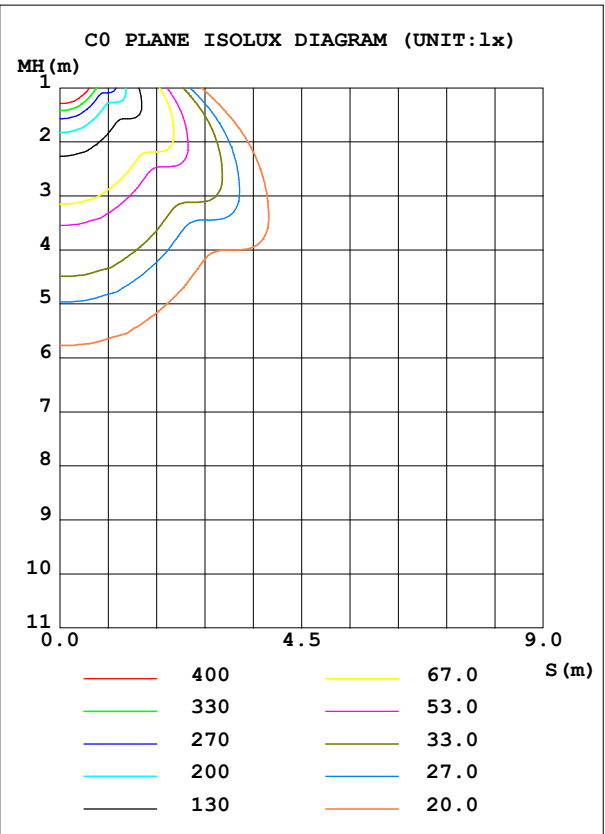
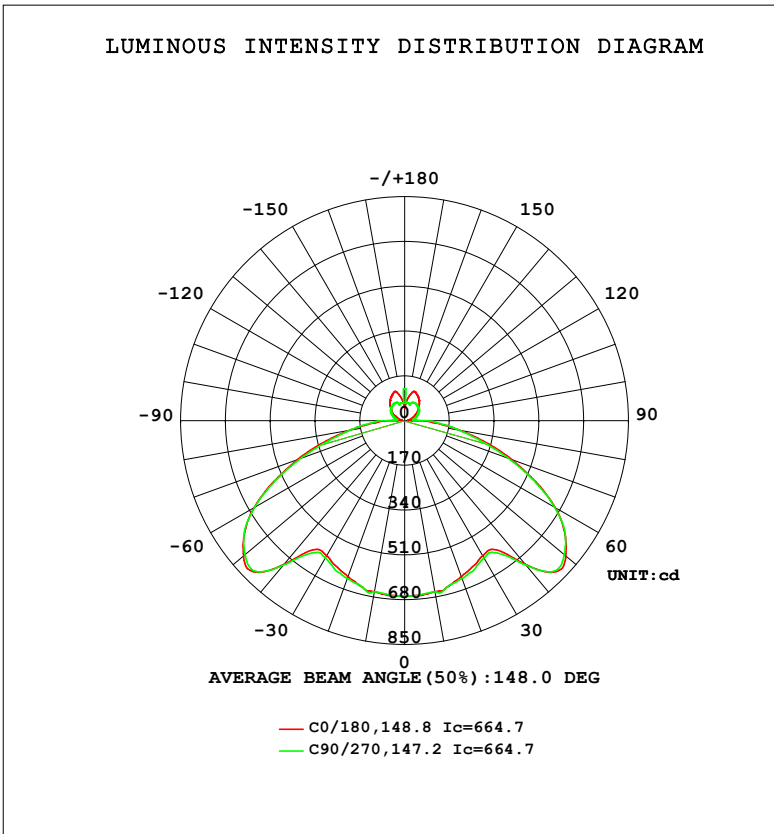


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

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:3603.03x1 lm		
NAME: CP10-025-3070-A00C09	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	/	Imax (cd)	864.0	S/MH (C0/180)	1.37
NOMINAL POWER (W)	/	LOR (%)	100.0	S/MH (C90/270)	1.45
RATED VOLTAGE (V)	/	TOTAL FLUX (lm)	3603.0	η UP, DN (C0-180)	4.6, 45.4
NOMINAL FLUX (lm)	3603.03	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	659.5	665.9	659.9	665.9	659.5	665.9	659.9	665.9	0- 10	63.33	63.33	1.76,1.76
20	629.4	633.6	638.1	633.6	629.4	633.6	638.1	633.6	10- 20	183.5	246.9	6.85,6.85
30	593.0	598.9	602.5	598.9	593.0	598.9	602.5	598.9	20- 30	284.8	531.7	14.8,14.8
40	711.1	709.7	716.0	709.7	711.1	709.7	716.0	709.7	30- 40	396.7	928.4	25.8,25.8
50	798.9	835.7	791.0	835.7	798.9	835.7	791.0	835.7	40- 50	619.5	1548	43,43
60	659.1	691.7	656.5	691.7	659.1	691.7	656.5	691.7	50- 60	681.5	2229	61.9,61.9
70	432.5	439.0	418.9	439.0	432.5	439.0	418.9	439.0	60- 70	553.0	2782	77.2,77.2
80	212.6	229.7	210.8	229.7	212.6	229.7	210.8	229.7	70- 80	334.5	3117	86.5,86.5
90	55.03	66.39	61.86	66.39	55.03	66.39	61.86	66.39	80- 90	152.2	3269	90.7,90.7
100	15.72	26.26	33.96	26.26	15.72	26.26	33.96	26.26	90-100	34.70	3304	91.7,91.7
110	33.03	39.17	47.63	39.17	33.03	39.17	47.63	39.17	100-110	34.69	3339	92.7,92.7
120	49.96	50.45	60.09	50.45	49.96	50.45	60.09	50.45	110-120	45.79	3384	93.9,93.9
130	68.70	59.22	69.42	59.22	68.70	59.22	69.42	59.22	120-130	50.35	3435	95.3,95.3
140	87.57	65.42	74.93	65.42	87.57	65.42	74.93	65.42	130-140	51.37	3486	96.8,96.8
150	103.9	71.26	77.11	71.26	103.9	71.26	77.11	71.26	140-150	47.86	3534	98.1,98.1
160	116.4	73.02	66.17	73.02	116.4	73.02	66.17	73.02	150-160	38.69	3573	99.2,99.2
170	93.02	73.45	68.91	73.45	93.02	73.45	68.91	73.45	160-170	23.44	3596	99.8,99.8
180	47.49	94.50	121.4	94.50	47.49	94.50	121.4	94.50	170-180	6.923	3603	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1215.1 lm

%lum = 33.7%

%lamp = 33.7%

Conical surface Flux(120deg): 2229.4 lm

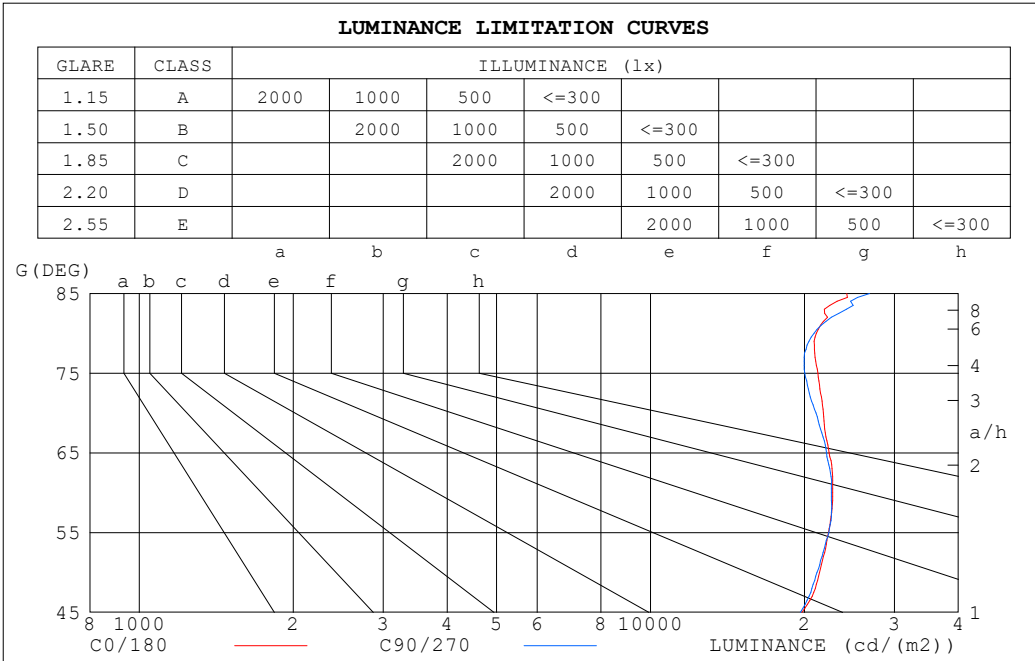
%lum = 61.9%

%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	24215	26815
80	21102	20884
75	21248	20028
70	21798	21069
65	22361	22090
60	22721	22585
55	22284	22310
50	21421	21167
45	19766	19632

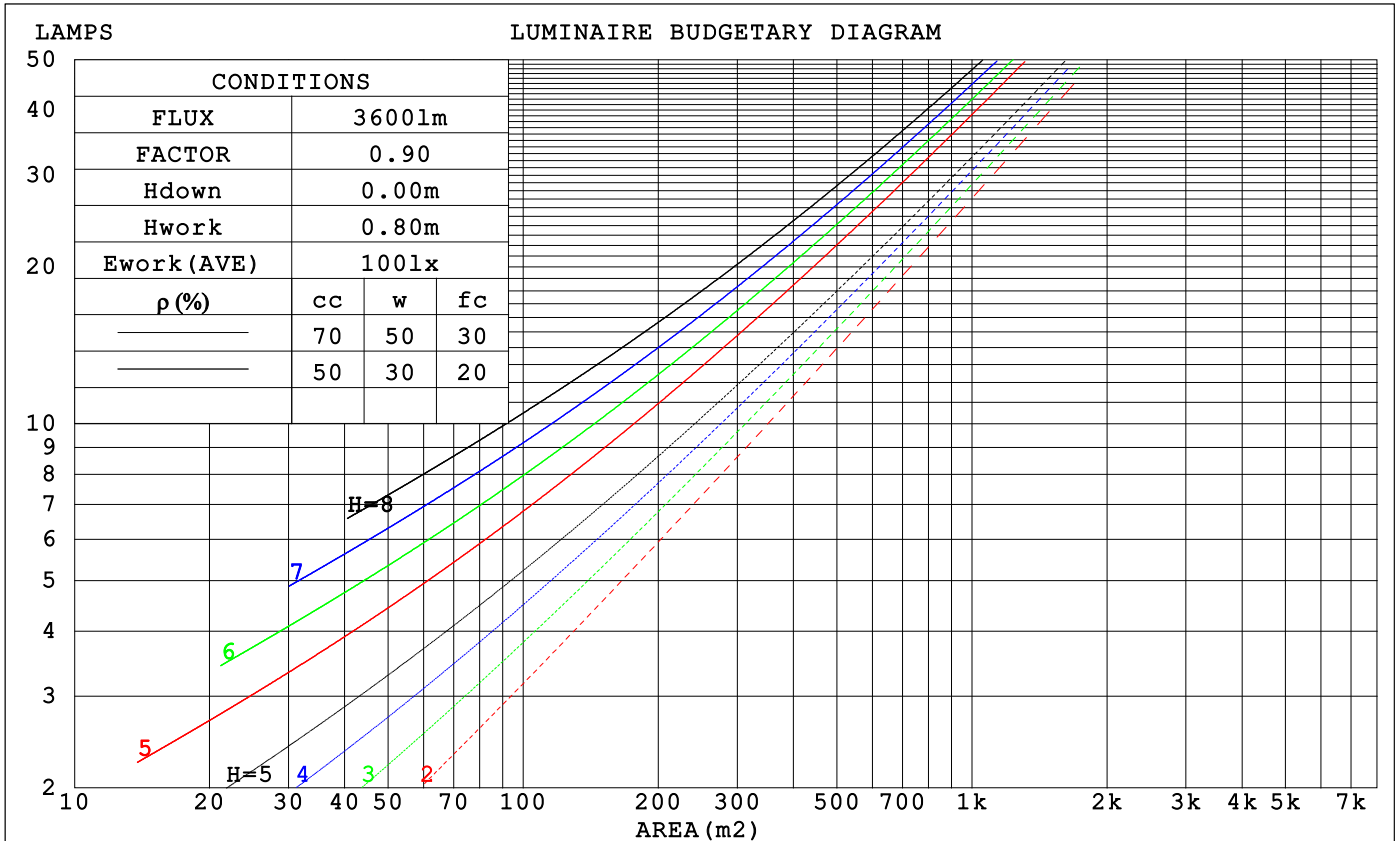
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: ZZK
 Test Date: 2023-08-10

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: 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	.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																
1.0	.261	.261	.261	.223	.223	.223	.152	.152	.152	.087	.087	.087	.028	.028	.028	
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: 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	23.5	25.1	24.0	25.6	26.1	23.4	25.0	23.9	25.5	26.0
3H	25.4	26.8	25.9	27.3	27.9	25.3	26.8	25.8	27.3	27.8
4H	26.1	27.5	26.6	28.0	28.6	26.0	27.4	26.5	27.9	28.5
6H	26.7	28.0	27.2	28.5	29.1	26.6	27.9	27.2	28.4	29.0
8H	27.0	28.2	27.5	28.8	29.4	26.9	28.1	27.5	28.7	29.3
12H	27.2	28.4	27.8	28.9	29.6	27.2	28.4	27.7	28.9	29.6
4H 2H	24.2	25.6	24.7	26.1	26.7	24.1	25.5	24.6	26.0	26.6
3H	26.2	27.4	26.7	27.9	28.5	26.2	27.4	26.7	27.9	28.5
4H	27.0	28.1	27.6	28.7	29.3	27.0	28.1	27.6	28.7	29.3
6H	27.8	28.8	28.4	29.4	30.0	27.8	28.8	28.4	29.4	30.0
8H	28.2	29.1	28.8	29.7	30.3	28.2	29.1	28.8	29.7	30.4
12H	28.5	29.3	29.1	29.9	30.6	28.6	29.4	29.2	30.0	30.7
8H 4H	27.4	28.3	28.0	28.9	29.6	27.4	28.3	28.0	28.9	29.6
6H	28.4	29.1	29.0	29.7	30.4	28.4	29.1	29.0	29.8	30.4
8H	28.8	29.5	29.5	30.1	30.8	28.9	29.6	29.5	30.2	30.9
12H	29.3	29.9	29.9	30.5	31.3	29.4	30.0	30.1	30.7	31.4
12H 4H	27.5	28.3	28.1	28.9	29.6	27.5	28.3	28.1	28.9	29.6
6H	28.5	29.2	29.1	29.8	30.5	28.5	29.2	29.2	29.8	30.5
8H	29.0	29.6	29.7	30.3	31.0	29.1	29.7	29.7	30.3	31.1
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

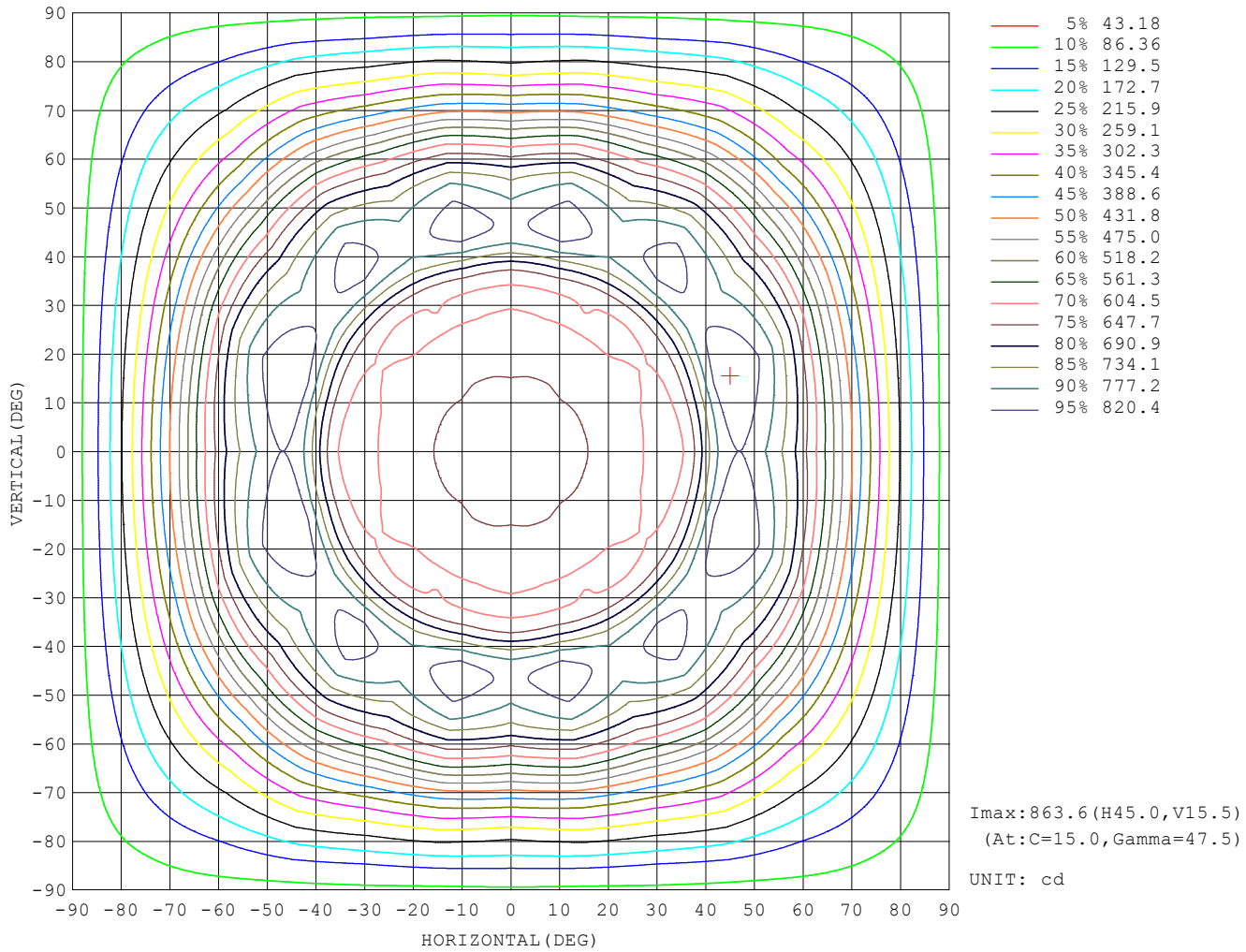
UTILIZATION FACTORS TABLE

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:

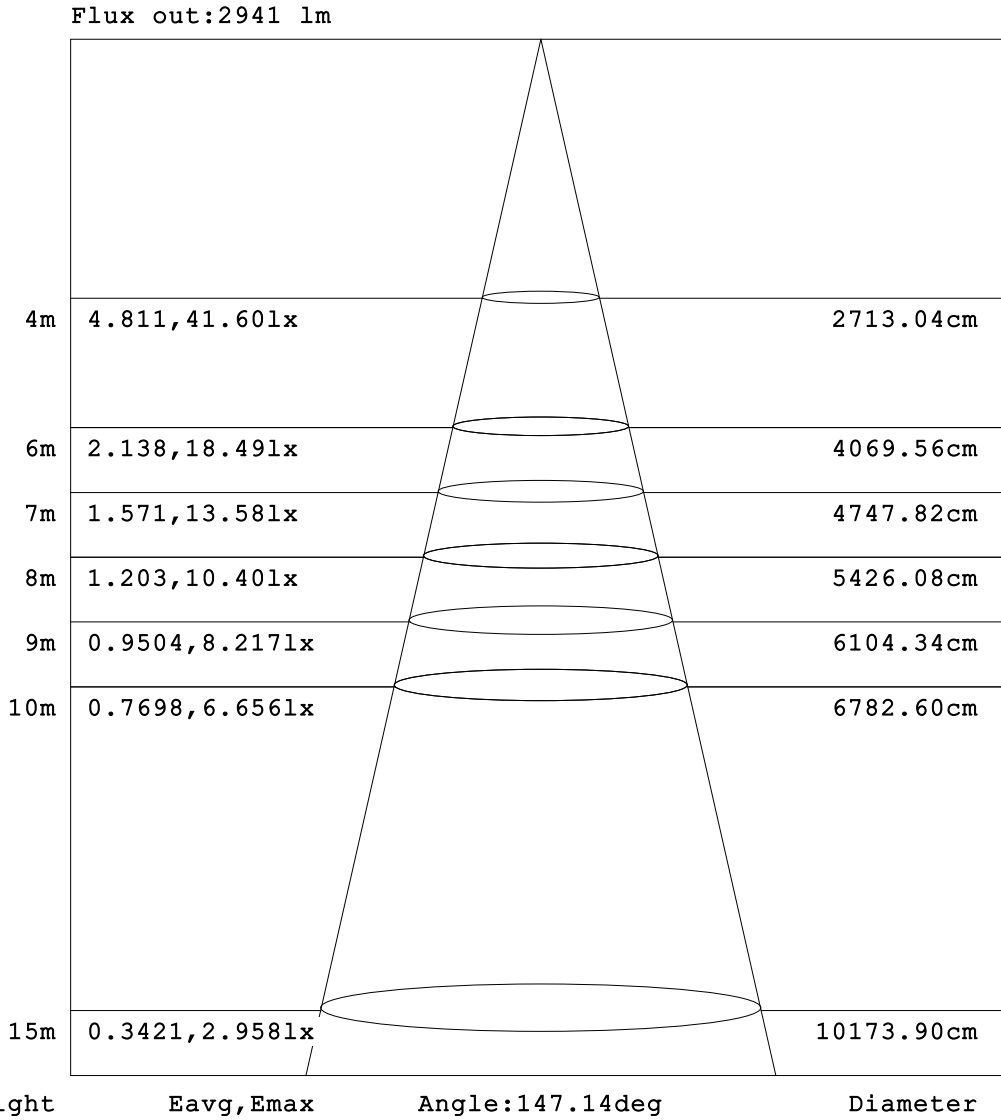
ISOCANDELA DIAGRAM



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

AAI Figure



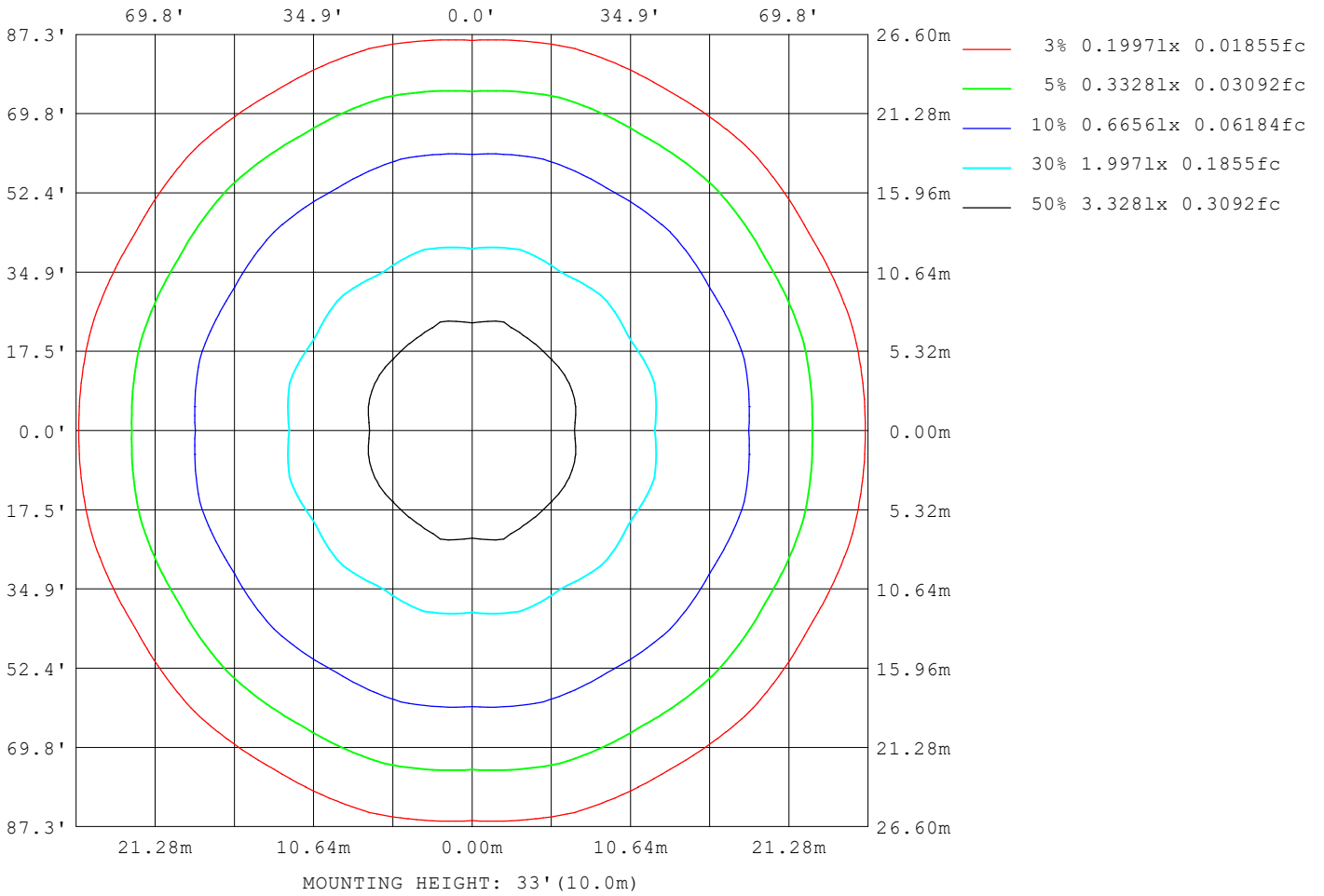
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

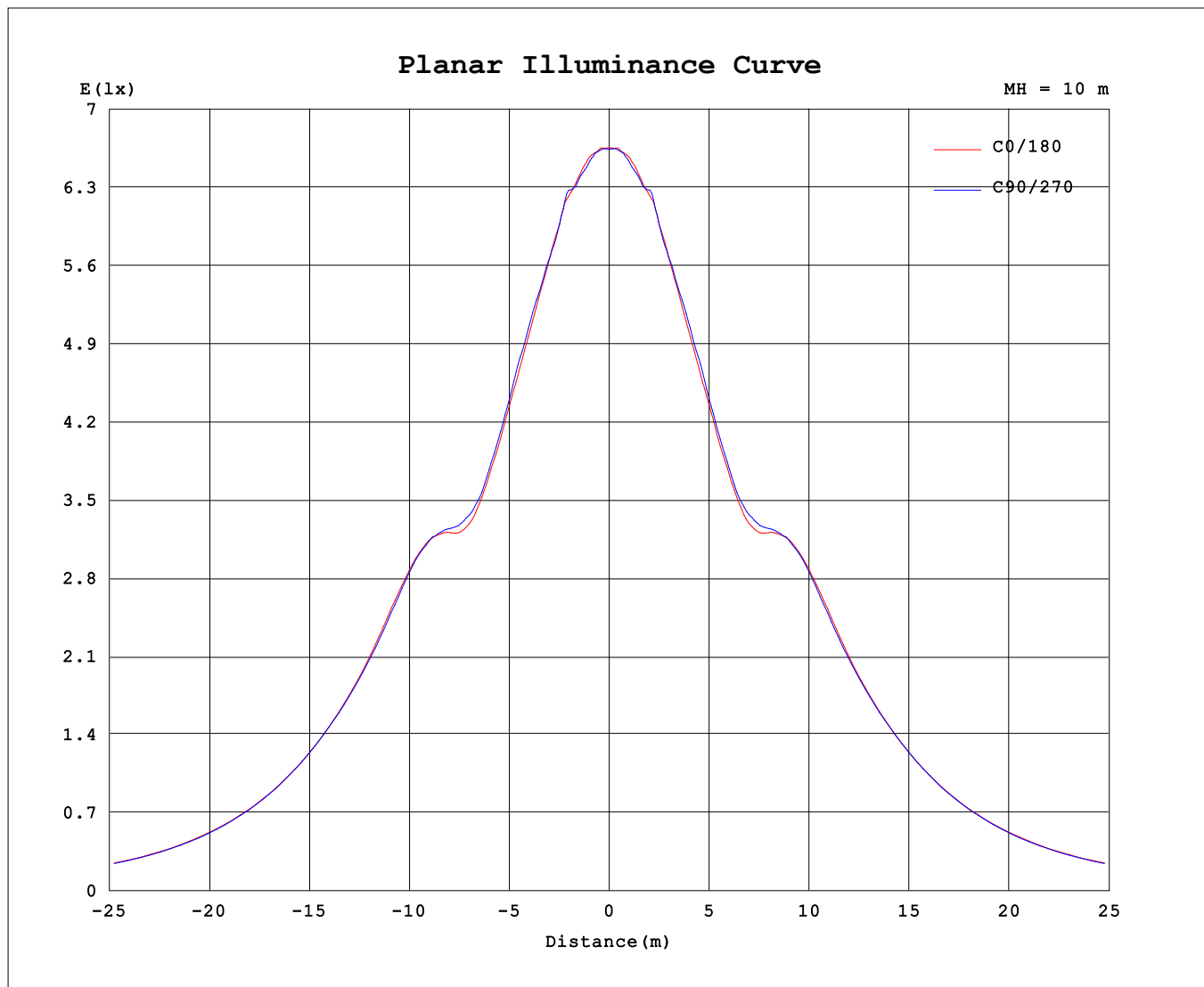
ISOLUX DIAGRAM



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: