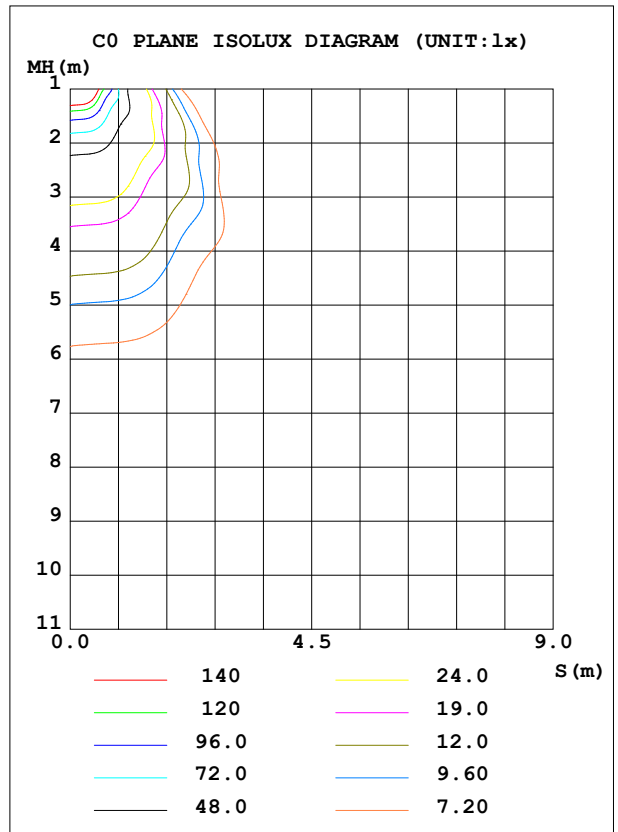
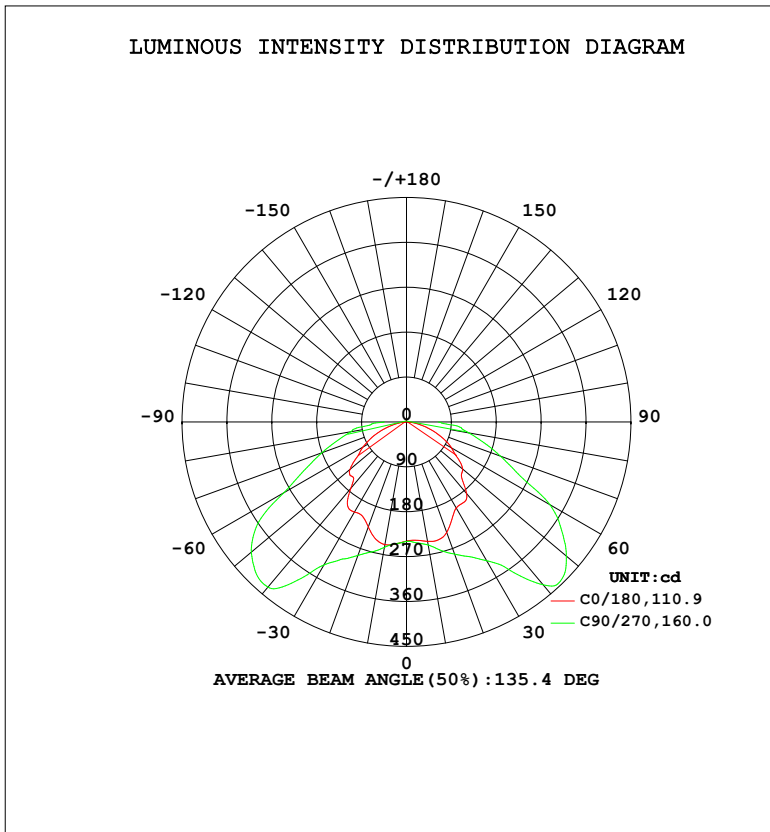


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:0.0V I:0.000A P:0.0W PF:0.000 Freq:0Hz		
UTHdi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1217.15x1 lm		
NAME: CP10-008EM-5070-A00C07	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	/	I _{max} (cd)	444.6	S/MH (C0/180)	1.33
NOMINAL POWER (W)	/	LOR (%)	100.0	S/MH (C90/270)	2.13
RATED VOLTAGE (V)	/	TOTAL FLUX (lm)	1217.1	η UP, DN (C0-180)	0.0, 50.3
NOMINAL FLUX (lm)	1217.15	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 49.7
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)	/	η down (%)	100.0	CIBSE SHR MAX	1.50



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: LYJ
 Test Date: 2023-05-09

γ Range: 0 - 90DEG
 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	243.0	243.9	250.5	254.6	249.7	255.4	255.2	251.3	0- 10	23.47	23.47	1.93,1.93
20	235.6	259.6	282.0	265.8	224.0	269.9	284.7	278.2	10- 20	73.28	96.75	7.95,7.95
30	199.6	258.8	321.1	262.3	208.6	260.2	331.0	280.1	20- 30	122.0	218.8	18,18
40	187.5	255.6	426.2	272.0	173.7	263.9	432.1	291.5	30- 40	176.3	395.0	32.5,32.5
50	147.0	263.9	418.4	289.6	147.8	272.8	406.1	312.6	40- 50	225.1	620.2	51,51
60	104.3	238.9	332.2	266.7	101.1	239.6	284.1	273.9	50- 60	235.3	855.4	70.3,70.3
70	61.82	165.8	200.4	180.1	57.74	157.7	180.5	181.6	60- 70	182.9	1038	85.3,85.3
80	22.98	99.06	127.1	103.9	20.39	85.87	113.3	100.6	70- 80	119.5	1158	95.1,95.1
90	1.731	33.67	63.41	33.41	1.067	7.772	44.49	10.37	80- 90	59.35	1217	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 503.59 lm

%lum = 41.4%

%lamp = 41.4%

Conical surface Flux(120deg): 855.41 lm

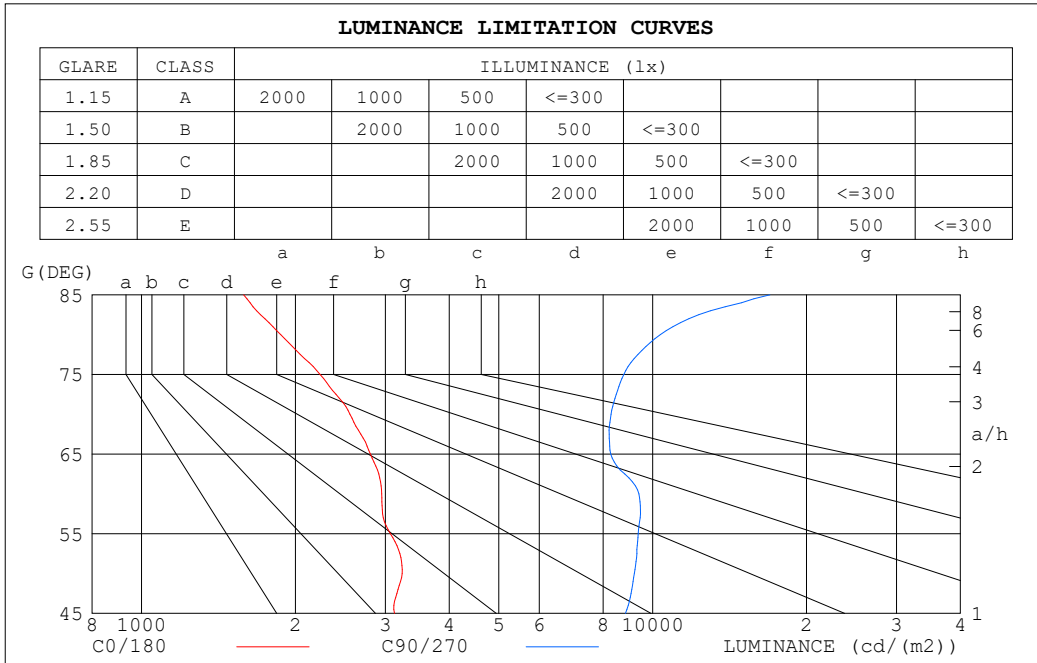
%lum = 70.3%

%lamp = 70.3%

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:LYJ
 Test Date:2023-05-09

γ Range: 0 - 90DEG
 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	1584	16957
80	1872	10353
75	2235	8783
70	2557	8291
65	2804	8280
60	2951	9398
55	3068	9371
50	3236	9208
45	3125	8849

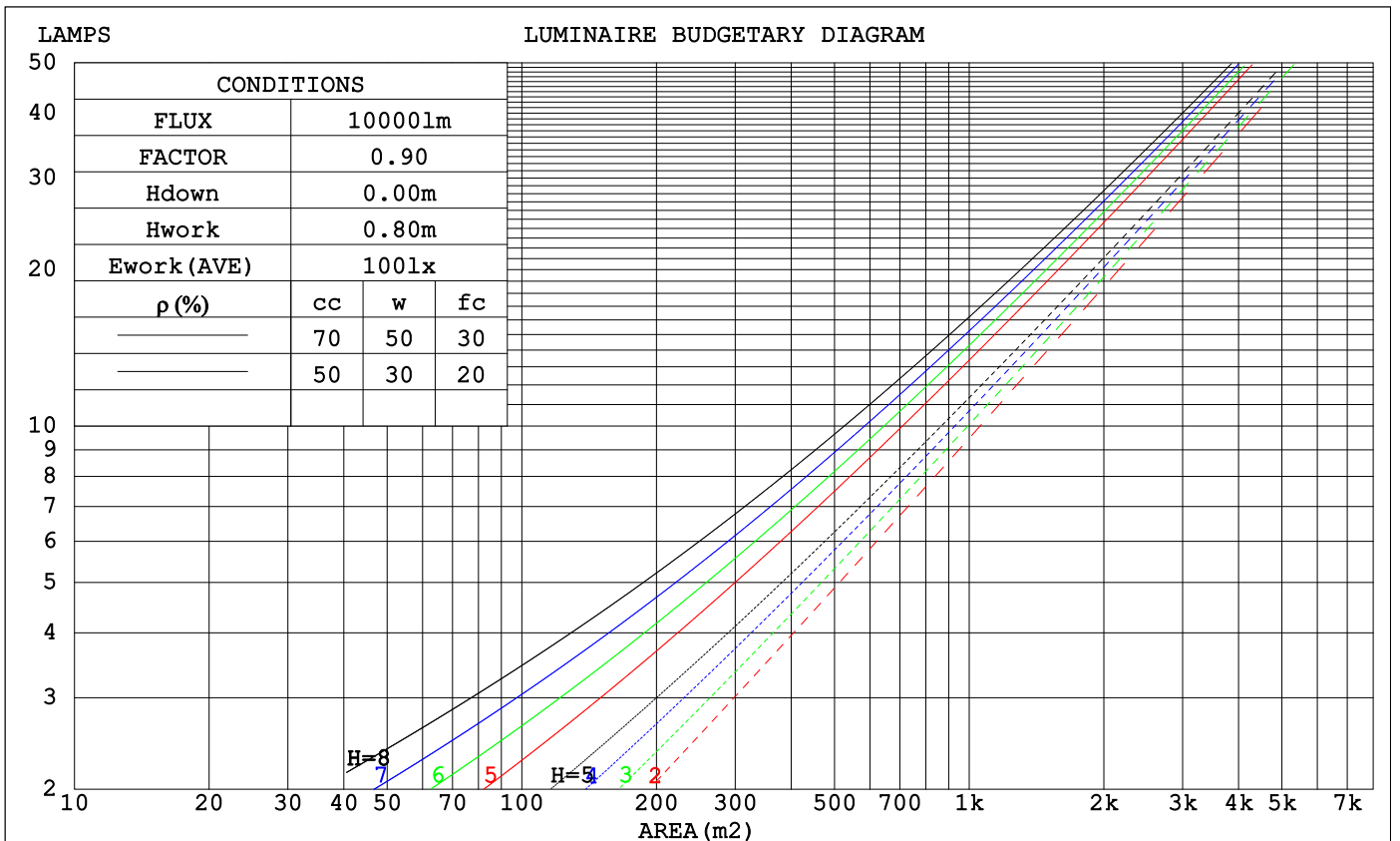
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: LYJ
 Test Date: 2023-05-09

γ Range: 0 - 90DEG
 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	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.01	.96	.91	.98	.94	.89	.94	.90	.87	.90	.87	.84	.86	.84	.81	.79
2.0	.86	.78	.71	.84	.77	.70	.80	.74	.69	.77	.72	.67	.74	.69	.66	.63
3.0	.74	.65	.57	.72	.64	.57	.69	.62	.56	.66	.60	.55	.64	.58	.54	.51
4.0	.64	.55	.47	.63	.54	.47	.60	.52	.46	.58	.51	.45	.56	.50	.45	.42
5.0	.57	.47	.39	.56	.46	.39	.53	.45	.39	.51	.44	.38	.49	.43	.38	.35
6.0	.50	.41	.34	.49	.40	.33	.48	.39	.33	.46	.38	.33	.44	.38	.32	.30
7.0	.45	.36	.29	.44	.35	.29	.43	.35	.29	.41	.34	.28	.40	.33	.28	.26
8.0	.41	.32	.25	.40	.31	.25	.39	.31	.25	.37	.30	.25	.36	.30	.25	.23
9.0	.37	.28	.22	.37	.28	.22	.35	.28	.22	.34	.27	.22	.33	.27	.22	.20
10.0	.34	.26	.20	.34	.25	.20	.33	.25	.20	.32	.25	.20	.31	.24	.20	.18



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:LYJ
 Test Date:2023-05-09

γ Range: 0 - 90DEG
 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	.371	.211	.067	.364	.207	.066	.350	.201	.064	.337	.195	.062	.326	.189	.061	
2.0	.336	.184	.056	.329	.181	.056	.317	.176	.055	.306	.172	.054	.296	.167	.053	
3.0	.305	.162	.049	.299	.160	.048	.288	.156	.047	.278	.152	.047	.269	.149	.046	
4.0	.277	.144	.042	.272	.142	.042	.262	.139	.042	.254	.136	.041	.245	.133	.041	
5.0	.253	.129	.037	.249	.128	.037	.240	.125	.037	.232	.123	.036	.225	.120	.036	
6.0	.233	.117	.033	.229	.116	.033	.221	.113	.033	.214	.111	.033	.208	.109	.032	
7.0	.215	.106	.030	.212	.105	.030	.205	.104	.030	.198	.102	.030	.193	.100	.029	
8.0	.200	.098	.027	.197	.097	.027	.190	.095	.027	.185	.094	.027	.179	.092	.027	
9.0	.186	.090	.025	.183	.089	.025	.178	.088	.025	.173	.087	.025	.168	.085	.025	
10.0	.174	.084	.023	.172	.083	.023	.167	.082	.023	.162	.080	.023	.158	.079	.023	

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.185	.156	.130	.158	.134	.111	.108	.092	.077	.062	.053	.045	.020	.017	.014	
2.0	.178	.132	.093	.153	.113	.080	.105	.078	.056	.060	.046	.033	.019	.015	.011	
3.0	.171	.115	.069	.147	.099	.060	.101	.069	.042	.058	.040	.025	.019	.013	.008	
4.0	.164	.102	.054	.140	.088	.047	.097	.061	.033	.056	.036	.020	.018	.012	.006	
5.0	.156	.091	.044	.134	.079	.038	.092	.055	.027	.054	.032	.016	.017	.011	.005	
6.0	.149	.083	.036	.128	.072	.032	.088	.051	.022	.051	.030	.013	.017	.010	.004	
7.0	.142	.077	.031	.122	.066	.027	.084	.047	.019	.049	.027	.011	.016	.009	.004	
8.0	.135	.071	.027	.116	.061	.023	.080	.043	.017	.047	.025	.010	.015	.008	.003	
9.0	.128	.066	.024	.110	.057	.021	.077	.040	.015	.045	.024	.009	.014	.008	.003	
10.0	.122	.062	.021	.105	.053	.019	.073	.038	.013	.043	.022	.008	.014	.007	.003	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:LYJ
 Test Date:2023-05-09

γ Range: 0 - 90DEG
 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	14.7	16.5	15.1	16.8	17.1	22.0	23.8	22.4	24.2	24.5
3H	16.3	17.9	16.6	18.2	18.6	23.7	25.4	24.1	25.7	26.0
4H	16.8	18.3	17.2	18.7	19.1	24.5	26.1	24.9	26.4	26.8
6H	17.1	18.6	17.5	18.9	19.3	25.3	26.8	25.7	27.1	27.5
8H	17.2	18.6	17.7	19.0	19.4	25.8	27.2	26.2	27.6	27.9
12H	17.3	18.7	17.7	19.0	19.5	26.3	27.7	26.7	28.0	28.5
4H 2H	17.2	18.8	17.6	19.1	19.5	22.4	24.0	22.8	24.3	24.7
3H	18.9	20.2	19.3	20.6	21.0	24.4	25.8	24.8	26.2	26.6
4H	19.4	20.7	19.9	21.1	21.5	25.4	26.6	25.9	27.1	27.5
6H	19.8	20.9	20.2	21.3	21.7	26.5	27.6	26.9	28.0	28.4
8H	19.9	20.9	20.3	21.3	21.8	27.0	28.1	27.5	28.5	29.0
12H	20.0	20.9	20.4	21.3	21.8	27.7	28.7	28.2	29.1	29.6
8H 4H	21.0	22.0	21.5	22.5	22.9	25.7	26.7	26.2	27.2	27.6
6H	21.6	22.5	22.1	23.0	23.4	27.0	27.9	27.5	28.3	28.8
8H	21.8	22.6	22.3	23.1	23.6	27.7	28.5	28.2	29.0	29.5
12H	21.9	22.6	22.4	23.1	23.7	28.7	29.3	29.2	29.8	30.4
12H 4H	21.4	22.3	21.9	22.8	23.2	25.8	26.7	26.2	27.1	27.6
6H	22.2	23.0	22.8	23.5	24.0	27.1	27.9	27.6	28.3	28.9
8H	22.6	23.3	23.1	23.8	24.3	27.9	28.6	28.4	29.1	29.6
CIE190: 2010										

CIE190: 2010
 Area: 0.070686 m2

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:LYJ
 Test Date:2023-05-09

γ Range: 0 - 90DEG
 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

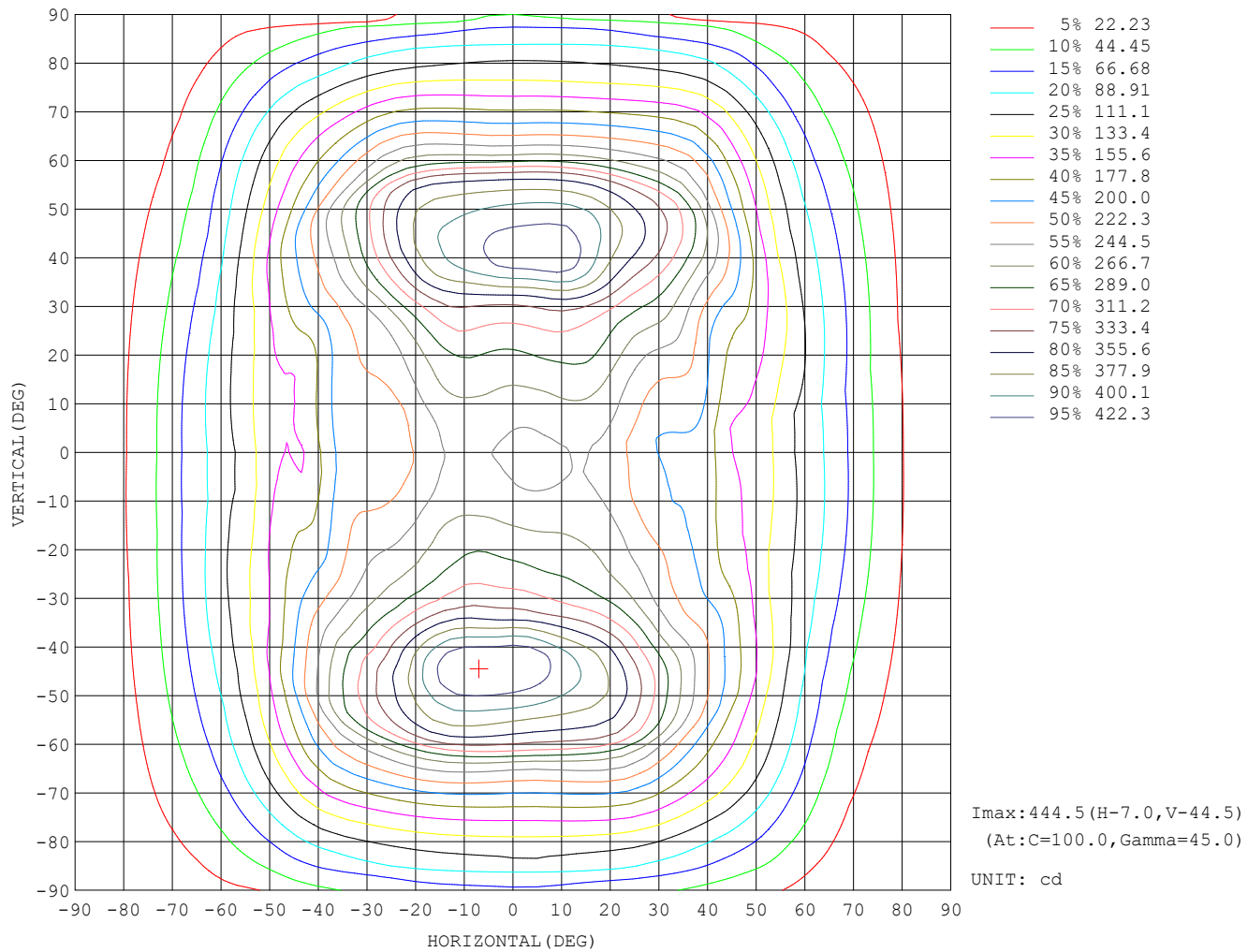
UTILIZATION FACTORS TABLE

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) $k(RI) \times RCR = 5$									
$k = 0.60$	50	37	30	49	37	30	48	37	29	22
0.80	61	47	39	59	47	39	57	46	39	31
1.00	70	57	48	68	56	48	66	58	48	40
1.25	77	65	57	76	64	56	73	63	56	47
1.50	83	71	63	81	70	62	77	68	61	53
2.00	90	80	73	88	79	72	85	77	70	62
2.50	95	86	78	93	84	78	89	81	76	67
3.00	99	90	84	96	89	83	92	86	81	71
4.00	103	96	91	101	95	89	96	91	87	77
5.00	106	100	95	103	98	94	99	94	91	81
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: LYJ
 Test Date: 2023-05-09

γ Range: 0 - 90DEG
 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:

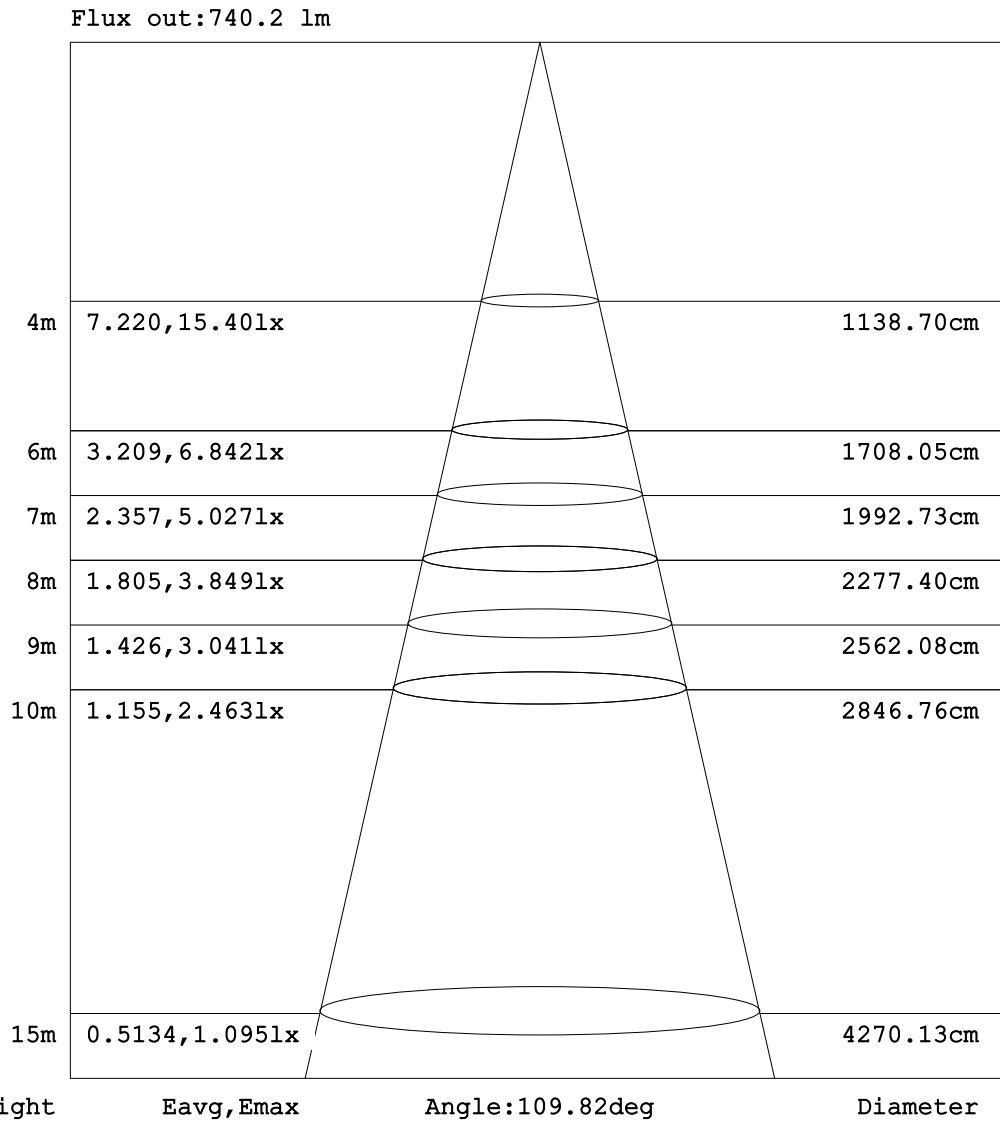
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:LYJ
 Test Date:2023-05-09

γ Range: 0 - 90DEG
 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



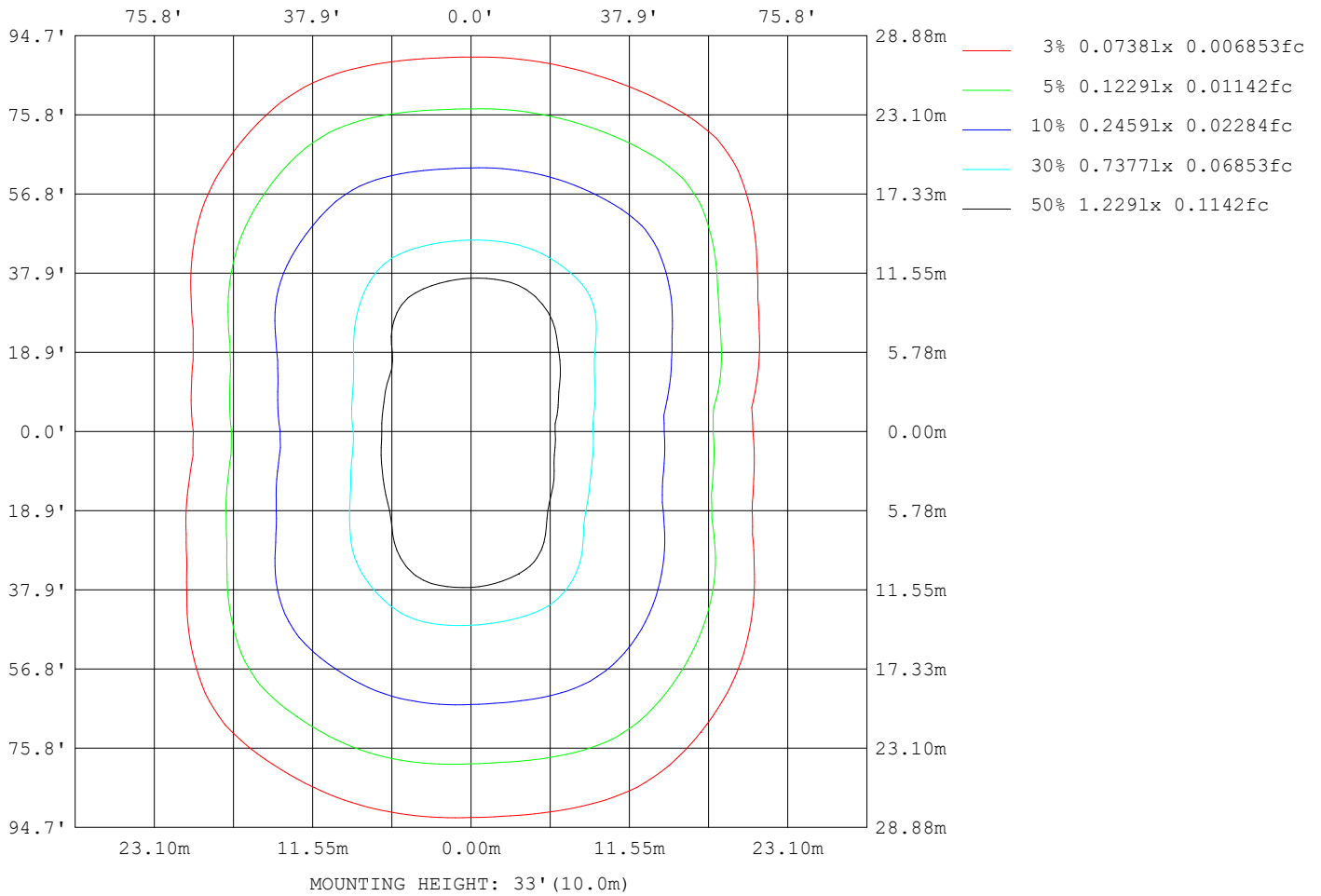
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:LYJ
 Test Date:2023-05-09

γ Range: 0 - 90DEG
 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

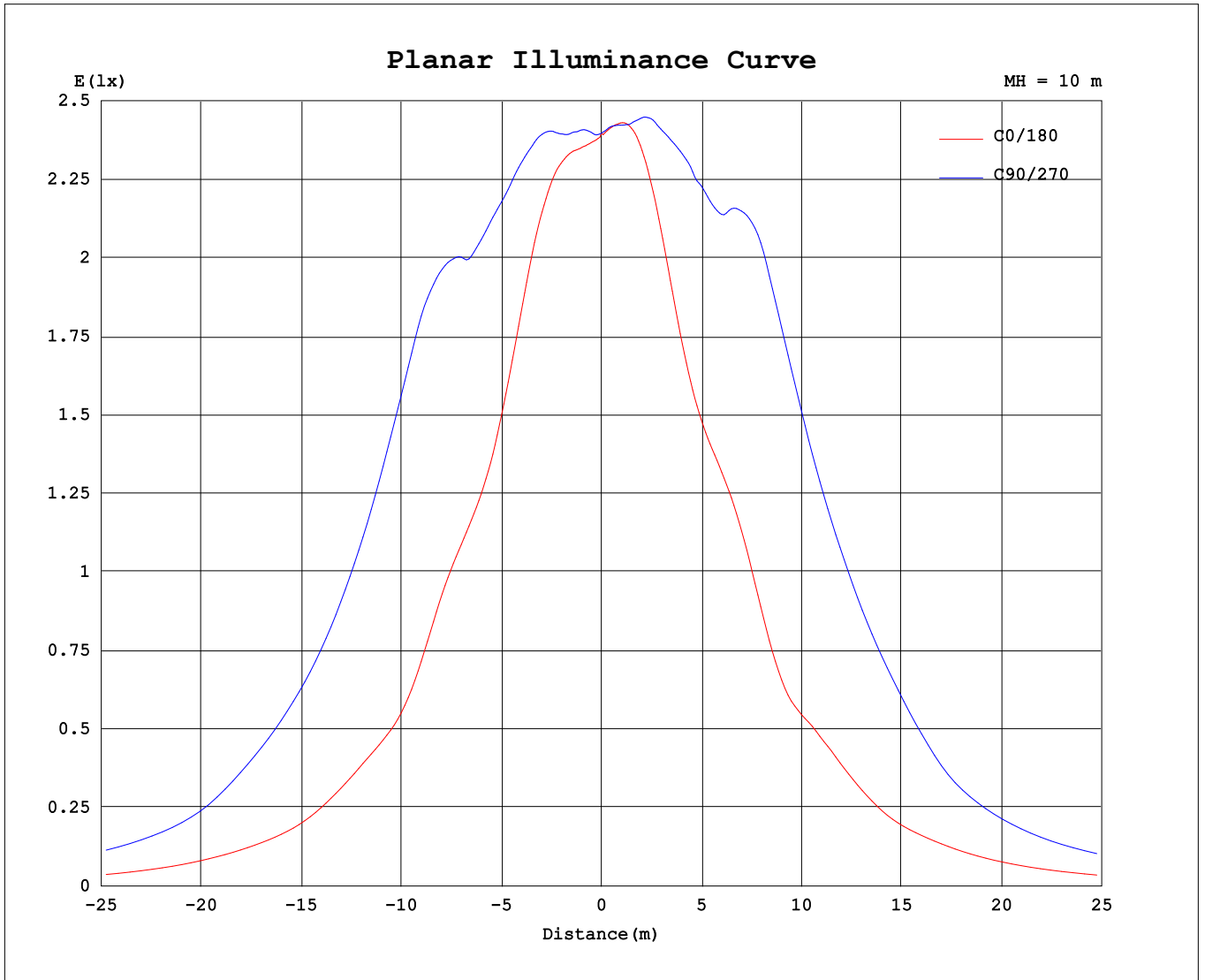
ISOLUX DIAGRAM



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: LYJ
 Test Date: 2023-05-09

γ Range: 0 - 90DEG
 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: 5.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: LYJ
Test Date: 2023-05-09

γ Range: 0 - 90DEG
 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: