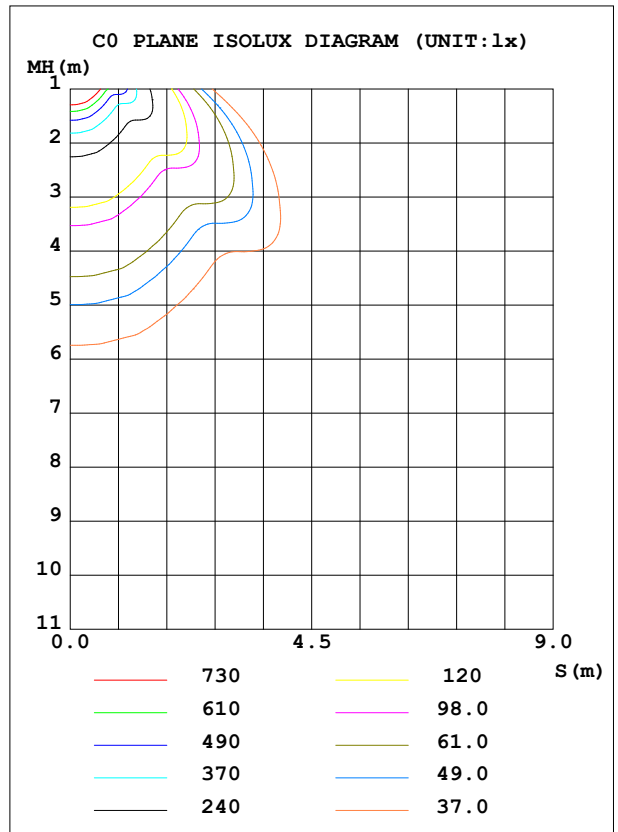
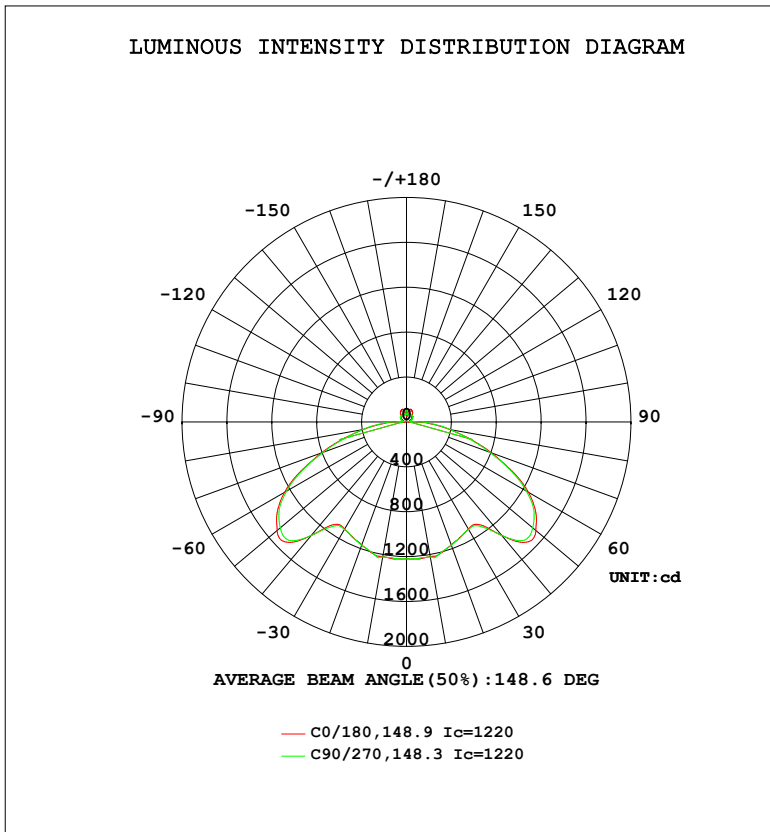


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.327A P:39.0W PF:0.994 Freq:50.00Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6360.07x1 lm		
NAME: CP10-040-4070-A00C09	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	/	Imax (cd)	1549	S/MH (C0/180)	1.42
NOMINAL POWER (W)	/	LOR (%)	100.0	S/MH (C90/270)	1.48
RATED VOLTAGE (V)	/	TOTAL FLUX (lm)	6360.1	η UP, DN (C0-180)	2.8,47.2
NOMINAL FLUX (lm)	6360.07	CIE CLASS	DIRECT	η UP, DN (C180-360)	2.8,47.2
LAMPS INSIDE	1	η up (%)	5.6	CIBSE SHR NOM	2.00
TEST VOLTAGE (V)	/	η down (%)	94.4	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	1218	1230	1222	1230	1218	1230	1222	1230	0- 10	116.7	116.7	1.83,1.83
20	1166	1167	1169	1167	1166	1167	1169	1167	10- 20	339.0	455.7	7.17,7.17
30	1103	1112	1106	1112	1103	1112	1106	1112	20- 30	524.6	980.3	15.4,15.4
40	1320	1316	1320	1316	1320	1316	1320	1316	30- 40	731.9	1712	26.9,26.9
50	1505	1493	1468	1493	1505	1493	1468	1493	40- 50	1136	2848	44.8,44.8
60	1255	1240	1233	1240	1255	1240	1233	1240	50- 60	1244	4092	64.3,64.3
70	806.1	801.7	788.6	801.7	806.1	801.7	788.6	801.7	60- 70	1016	5109	80.3,80.3
80	393.0	415.4	397.6	415.4	393.0	415.4	397.6	415.4	70- 80	621.7	5730	90.1,90.1
90	101.2	112.4	99.18	112.4	101.2	112.4	99.18	112.4	80- 90	276.7	6007	94.4,94.4
100	16.84	27.36	34.93	27.36	16.84	27.36	34.93	27.36	90-100	47.72	6055	95.2,95.2
110	34.36	40.52	48.78	40.52	34.36	40.52	48.78	40.52	100-110	35.95	6091	95.8,95.8
120	51.55	52.10	61.54	52.10	51.55	52.10	61.54	52.10	110-120	47.24	6138	96.5,96.5
130	66.25	60.70	71.09	60.70	66.25	60.70	71.09	60.70	120-130	51.66	6189	97.3,97.3
140	77.56	66.94	76.16	66.94	77.56	66.94	76.16	66.94	130-140	51.97	6241	98.1,98.1
150	105.3	71.82	78.46	71.82	105.3	71.82	78.46	71.82	140-150	48.44	6290	98.9,98.9
160	118.2	74.13	69.18	74.13	118.2	74.13	69.18	74.13	150-160	39.10	6329	99.5,99.5
170	94.98	74.66	70.66	74.66	94.98	74.66	70.66	74.66	160-170	23.97	6353	99.9,99.9
180	49.48	96.73	120.7	96.73	49.48	96.73	120.7	96.73	170-180	7.128	6360	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 2239.3 lm

%lum = 35.2%

%lamp = 35.2%

Conical surface Flux(120deg): 4092.1 lm

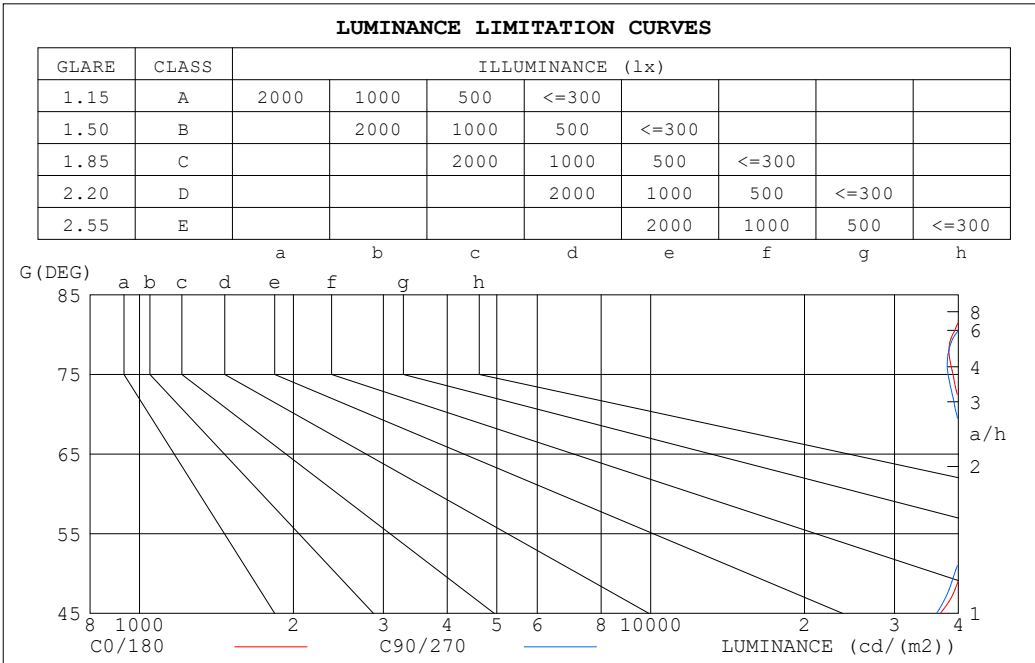
%lum = 64.3%

%lamp = 64.3%

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	45390	49180
80	38965	39434
75	39064	38194
70	40579	39708
65	42316	41746
60	43207	42473
55	42234	41634
50	40319	39318
45	36874	36253

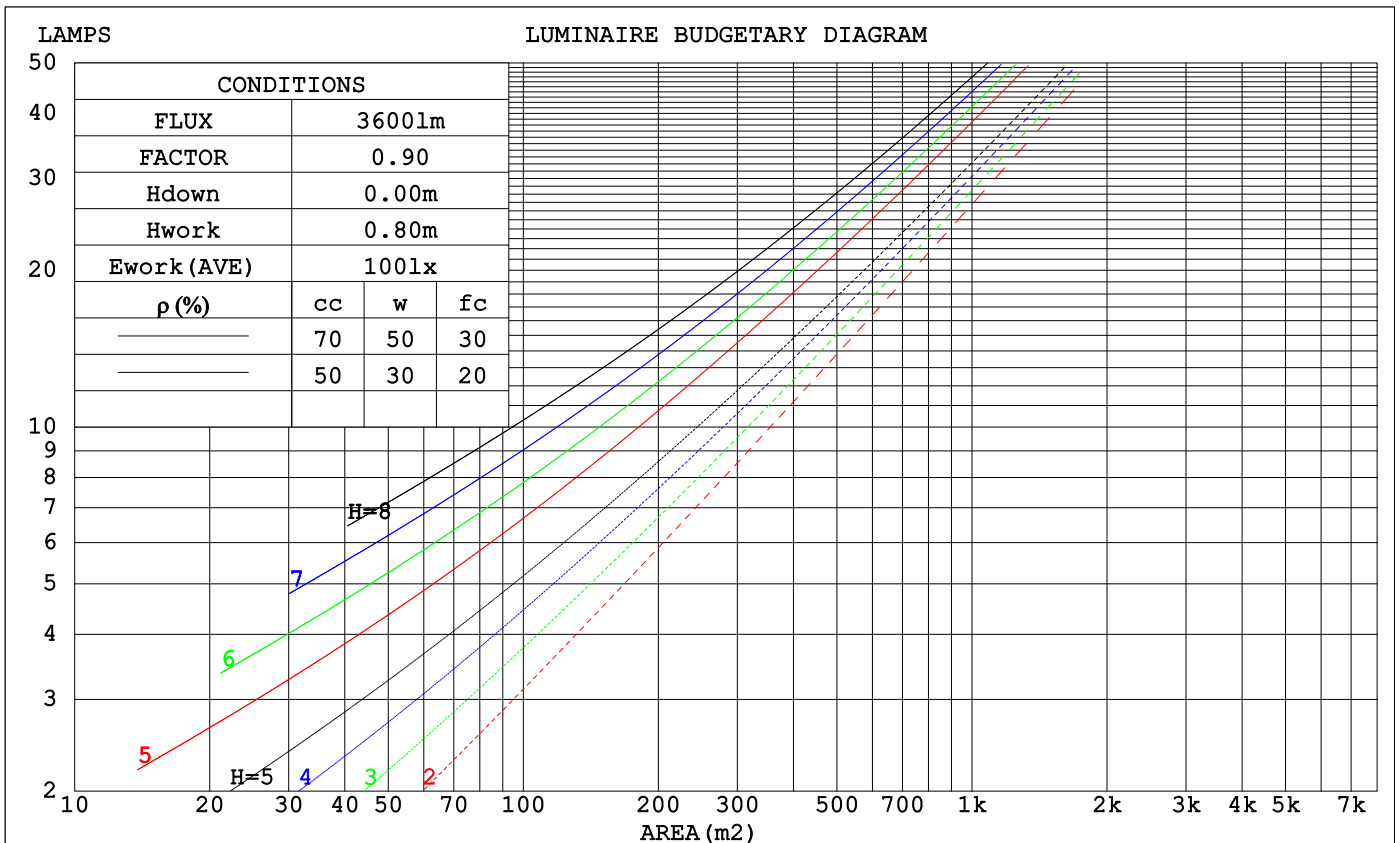
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: ZZK
 Test Date: 2023-08-10

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	1.18	1.18	1.18	1.14	1.14	1.14	1.08	1.08	1.08	1.02	1.02	1.02	.97	.97	.97	.94
1.0	.99	.94	.90	.96	.92	.88	.91	.87	.84	.86	.83	.80	.82	.79	.77	.74
2.0	.84	.76	.70	.82	.75	.68	.77	.71	.66	.73	.68	.64	.69	.65	.61	.59
3.0	.72	.63	.56	.70	.62	.55	.66	.59	.53	.63	.56	.51	.59	.54	.50	.47
4.0	.63	.53	.45	.61	.52	.45	.58	.50	.43	.55	.48	.42	.52	.46	.41	.38
5.0	.55	.45	.38	.54	.44	.37	.51	.42	.36	.48	.41	.35	.46	.39	.34	.32
6.0	.49	.39	.32	.48	.38	.31	.45	.37	.31	.43	.36	.30	.41	.34	.29	.27
7.0	.44	.34	.27	.43	.33	.27	.40	.32	.26	.38	.31	.26	.37	.30	.25	.23
8.0	.39	.30	.24	.38	.30	.24	.37	.29	.23	.35	.28	.23	.33	.27	.22	.20
9.0	.36	.27	.21	.35	.27	.21	.33	.26	.20	.32	.25	.20	.30	.24	.20	.17
10.0	.33	.24	.19	.32	.24	.18	.31	.23	.18	.29	.23	.18	.28	.22	.17	.16



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	.371	.211	.067	.362	.206	.066	.345	.198	.063	.330	.190	.061	.316	.183	.059	
2.0	.338	.185	.057	.330	.182	.056	.315	.175	.054	.301	.169	.053	.288	.163	.051	
3.0	.307	.163	.049	.299	.160	.048	.286	.155	.047	.273	.150	.046	.262	.145	.045	
4.0	.279	.145	.043	.272	.143	.042	.260	.138	.041	.249	.134	.040	.238	.130	.039	
5.0	.255	.130	.038	.249	.128	.037	.238	.124	.036	.228	.120	.036	.218	.117	.035	
6.0	.234	.117	.034	.229	.116	.033	.219	.112	.033	.210	.109	.032	.201	.106	.031	
7.0	.216	.107	.030	.211	.105	.030	.202	.102	.029	.194	.099	.029	.186	.097	.028	
8.0	.200	.098	.027	.196	.096	.027	.188	.094	.027	.180	.091	.026	.173	.089	.026	
9.0	.186	.090	.025	.182	.089	.025	.175	.087	.025	.168	.084	.024	.162	.082	.024	
10.0	.174	.083	.023	.171	.082	.023	.164	.080	.023	.158	.078	.022	.152	.076	.022	

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	.233	.233	.233	.199	.199	.199	.136	.136	.136	.078	.078	.078	.025	.025	.025	
1.0	.227	.198	.172	.194	.170	.148	.133	.117	.102	.077	.068	.060	.025	.022	.019	
2.0	.221	.175	.135	.190	.150	.117	.130	.104	.082	.075	.060	.048	.024	.020	.016	
3.0	.215	.158	.112	.184	.136	.097	.126	.095	.068	.073	.055	.040	.023	.018	.013	
4.0	.208	.145	.097	.178	.125	.084	.122	.087	.060	.071	.051	.035	.023	.017	.012	
5.0	.200	.135	.087	.172	.117	.076	.118	.082	.053	.069	.048	.032	.022	.016	.010	
6.0	.193	.127	.080	.166	.110	.070	.114	.077	.049	.066	.045	.029	.021	.015	.010	
7.0	.186	.120	.075	.160	.104	.065	.110	.073	.046	.064	.043	.027	.021	.014	.009	
8.0	.179	.115	.071	.154	.099	.062	.106	.070	.044	.062	.041	.026	.020	.014	.009	
9.0	.172	.110	.068	.148	.095	.059	.103	.067	.042	.060	.040	.025	.019	.013	.008	
10.0	.166	.106	.065	.143	.092	.057	.099	.064	.040	.058	.038	.024	.019	.013	.008	

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	25.6	27.3	26.1	27.8	28.2	25.6	27.3	26.1	27.7	28.2
3H	27.6	29.1	28.0	29.6	30.0	27.5	29.1	28.0	29.5	30.0
4H	28.3	29.8	28.8	30.3	30.8	28.3	29.8	28.8	30.2	30.7
6H	29.0	30.3	29.5	30.8	31.3	29.0	30.3	29.4	30.8	31.3
8H	29.2	30.6	29.7	31.1	31.6	29.2	30.6	29.8	31.1	31.6
12H	29.5	30.8	30.0	31.2	31.8	29.5	30.8	30.0	31.3	31.8
4H 2H	26.3	27.8	26.8	28.3	28.8	26.3	27.8	26.8	28.2	28.7
3H	28.5	29.7	29.0	30.2	30.7	28.5	29.7	29.0	30.2	30.7
4H	29.4	30.5	29.9	31.0	31.6	29.4	30.5	29.9	31.0	31.6
6H	30.2	31.2	30.7	31.7	32.3	30.2	31.2	30.7	31.7	32.3
8H	30.5	31.5	31.1	32.0	32.6	30.6	31.5	31.1	32.1	32.6
12H	30.9	31.7	31.4	32.3	32.9	30.9	31.8	31.5	32.4	33.0
8H 4H	29.8	30.7	30.3	31.2	31.8	29.8	30.7	30.3	31.2	31.8
6H	30.7	31.5	31.3	32.1	32.7	30.8	31.6	31.3	32.1	32.7
8H	31.2	31.9	31.8	32.5	33.1	31.3	32.0	31.9	32.6	33.2
12H	31.7	32.3	32.3	32.9	33.6	31.8	32.4	32.4	33.0	33.7
12H 4H	29.8	30.7	30.4	31.3	31.8	29.8	30.7	30.4	31.3	31.8
6H	30.9	31.6	31.5	32.1	32.8	30.9	31.6	31.5	32.2	32.8
8H	31.4	32.1	32.0	32.6	33.3	31.5	32.1	32.1	32.7	33.4
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

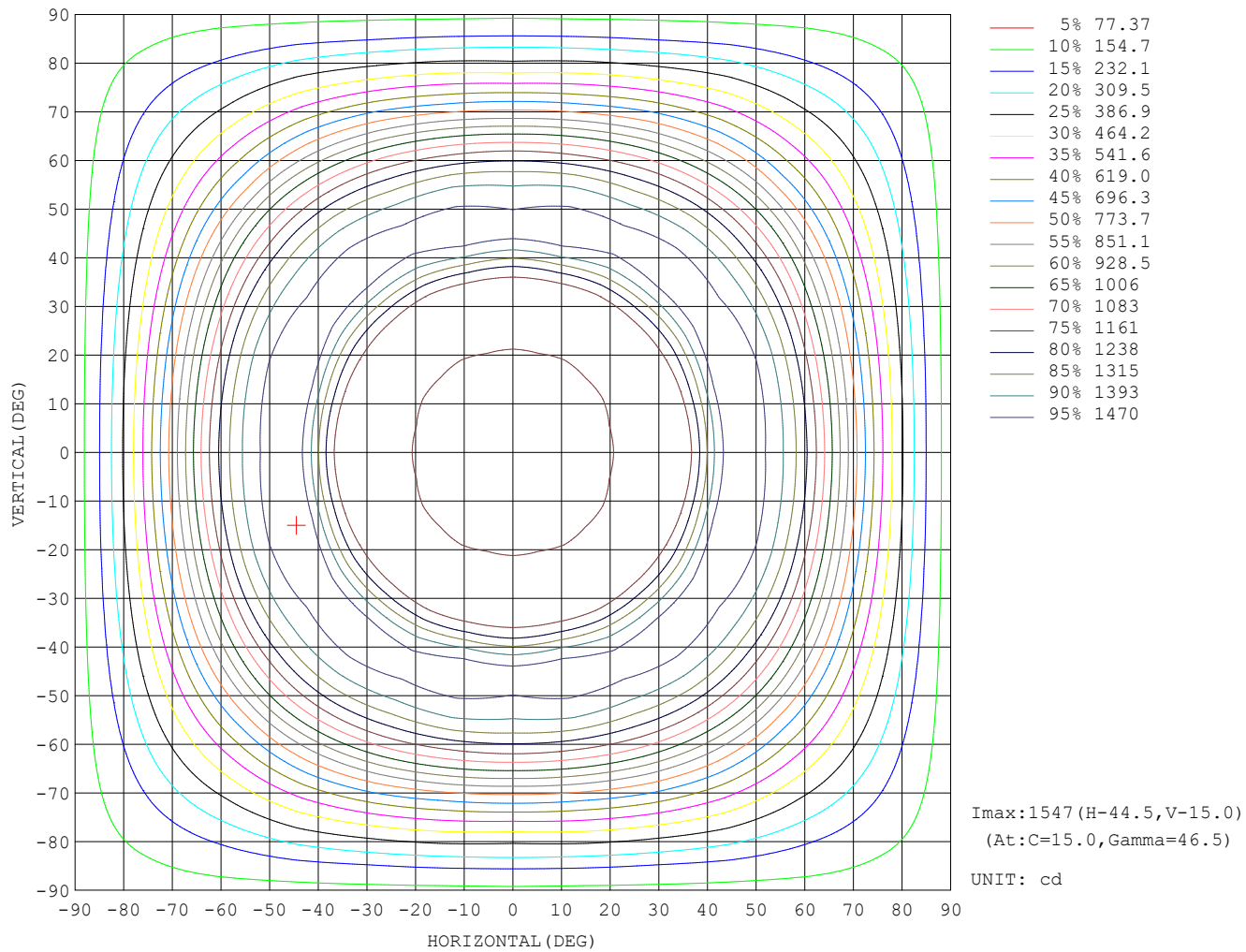
UTILIZATION FACTORS TABLE

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) $k(RI) \times RCR = 5$									
$k = 0.60$	47	34	26	46	33	26	44	33	25	18
0.80	57	44	35	56	43	35	53	42	34	26
1.00	66	53	45	65	52	44	62	54	43	35
1.25	74	62	53	72	61	52	69	59	51	42
1.50	80	68	59	78	67	59	74	64	57	48
2.00	88	77	69	85	76	68	81	73	66	56
2.50	93	83	76	90	81	74	85	78	72	61
3.00	97	88	81	94	86	80	89	82	77	66
4.00	101	94	88	98	92	87	93	88	83	72
5.00	104	98	93	101	96	91	96	91	87	76
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:

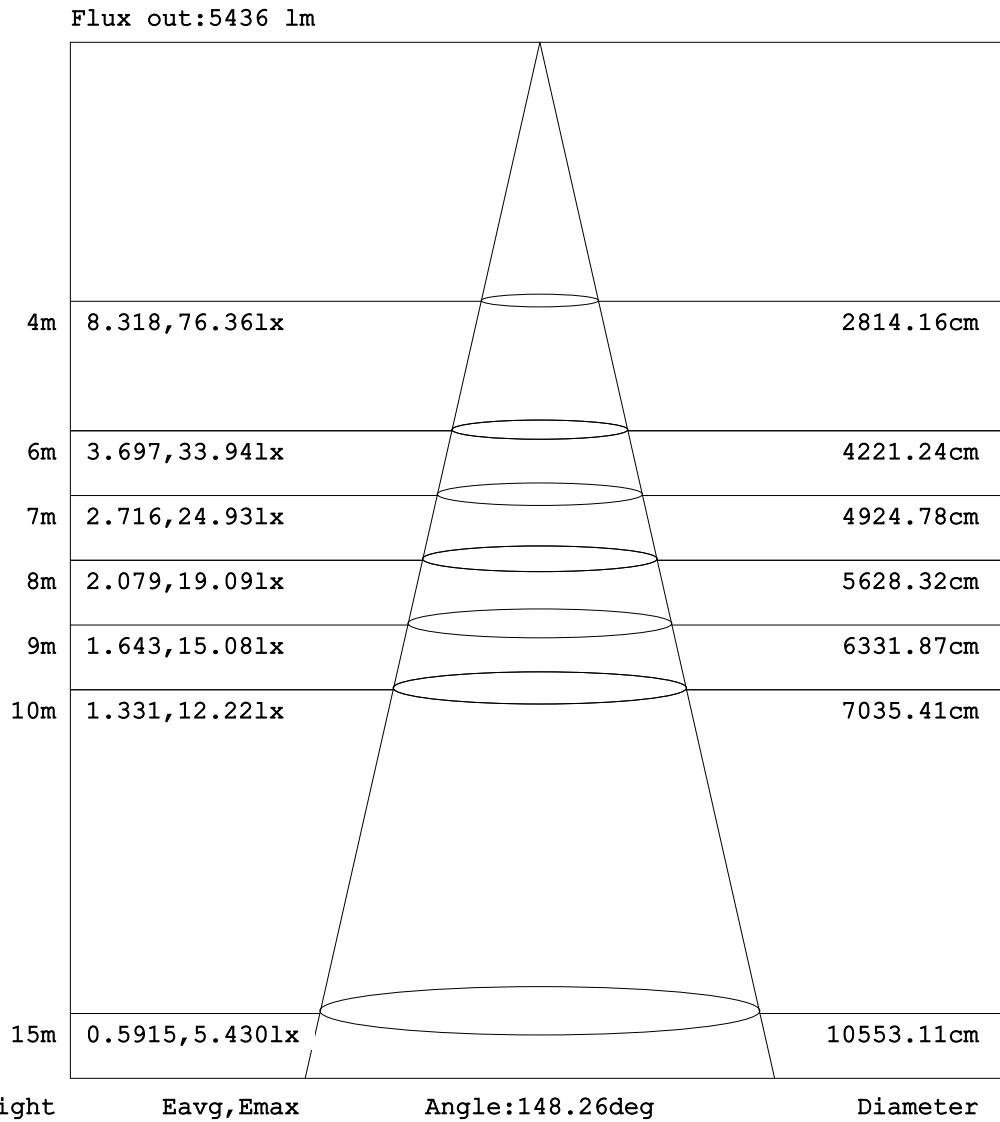
ISOCANDELA DIAGRAM



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

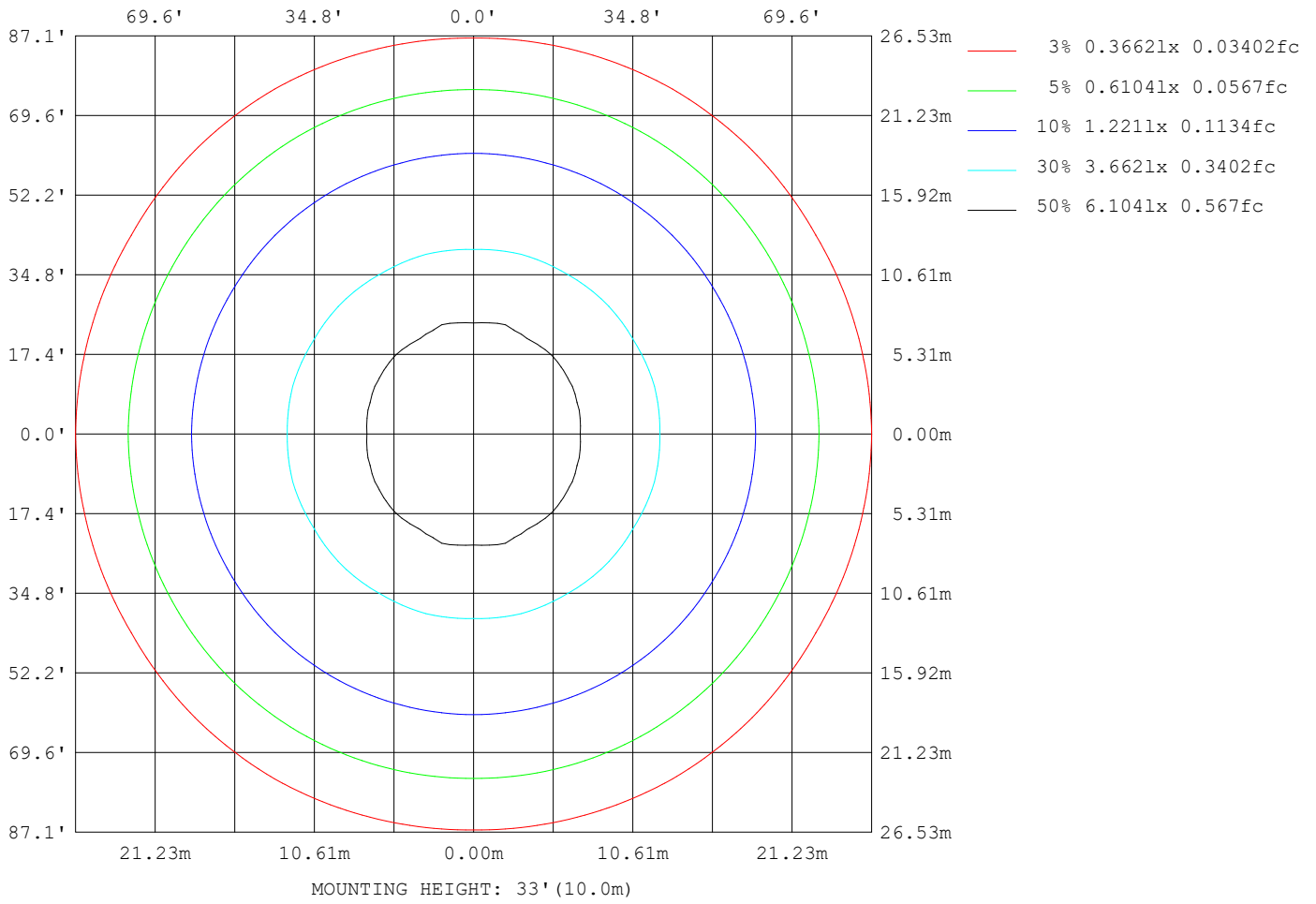


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:

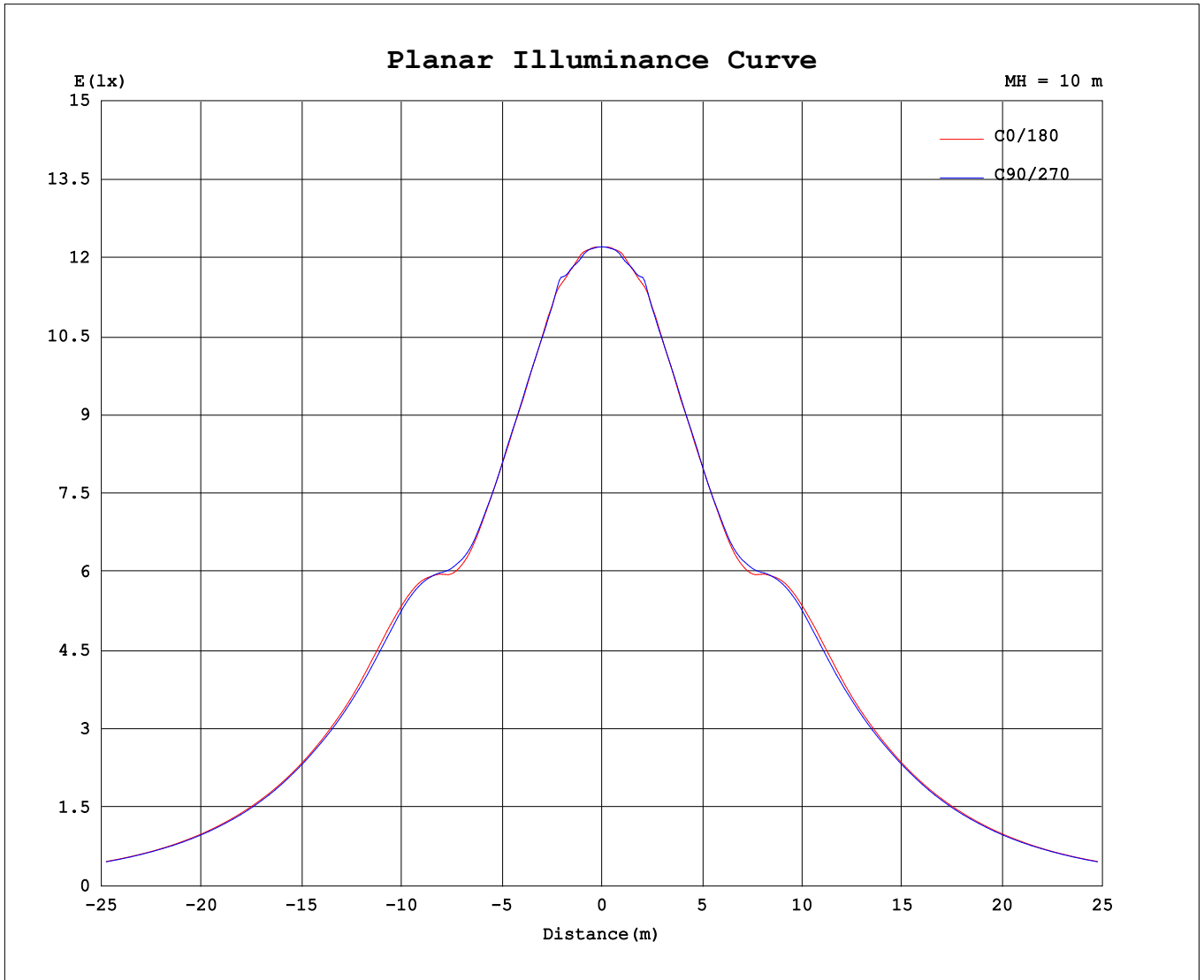
ISOLUX DIAGRAM



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

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: