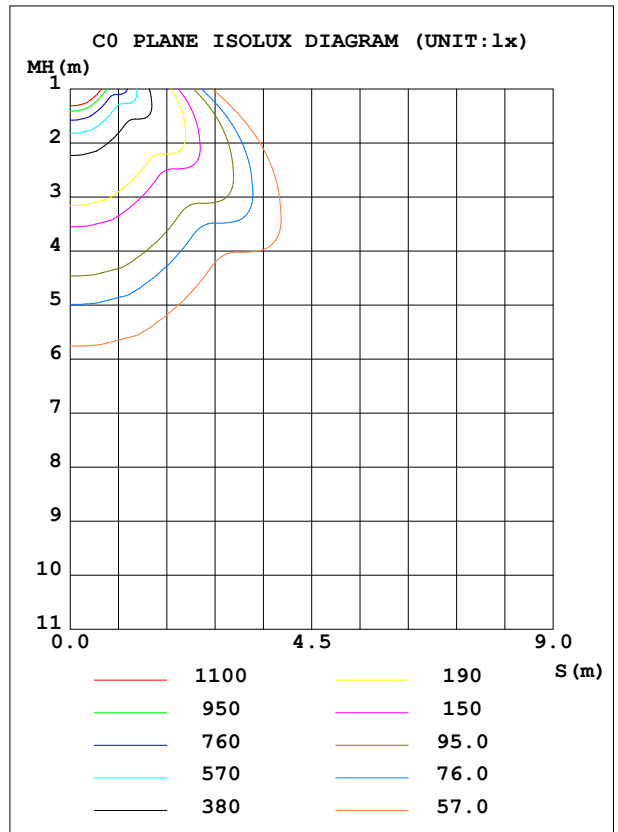
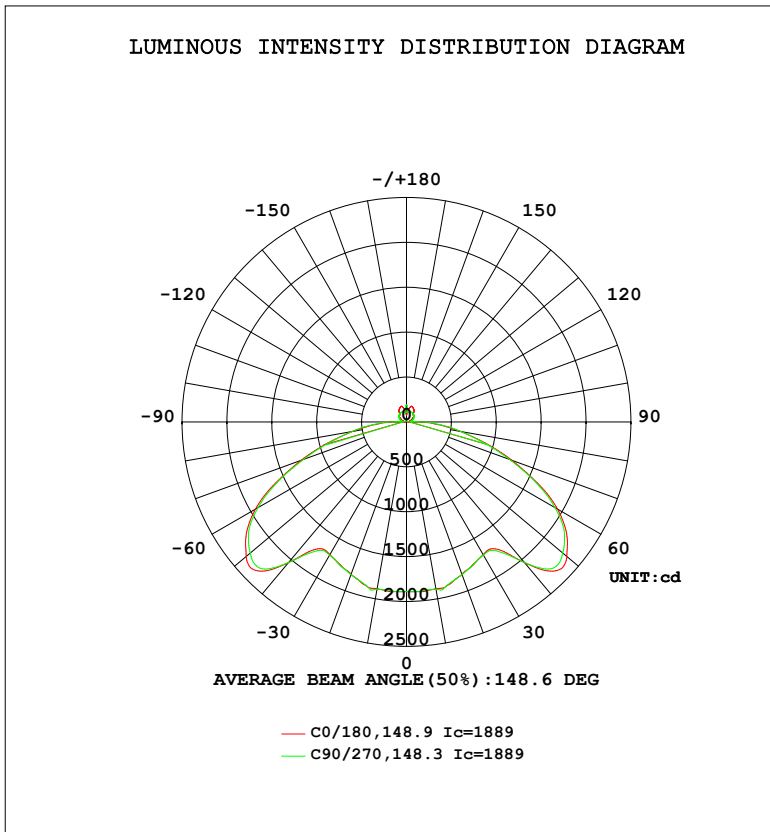


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.494A P:59.0W PF:0.995 Freq:50.00Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:9847.3x1 lm		
NAME: CP10-060-4070-A00C09	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	/	Imax (cd)	2399	S/MH (C0/180)	1.42
NOMINAL POWER (W)	/	LOR (%)	100.0	S/MH (C90/270)	1.48
RATED VOLTAGE (V)	/	TOTAL FLUX (lm)	9847.3	η UP, DN (C0-180)	2.8,47.2
NOMINAL FLUX (lm)	9847.3	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	1887	1904	1892	1904	1887	1904	1892	1904	0- 10	180.7	180.7	1.83,1.83
20	1806	1807	1810	1807	1806	1807	1810	1807	10- 20	524.9	705.6	7.17,7.17
30	1707	1721	1712	1721	1707	1721	1712	1721	20- 30	812.2	1518	15.4,15.4
40	2043	2038	2044	2038	2043	2038	2044	2038	30- 40	1133	2651	26.9,26.9
50	2331	2311	2272	2311	2331	2311	2272	2311	40- 50	1759	4410	44.8,44.8
60	1943	1920	1909	1920	1943	1920	1909	1920	50- 60	1926	6336	64.3,64.3
70	1248	1241	1221	1241	1248	1241	1221	1241	60- 70	1574	7910	80.3,80.3
80	608.4	643.2	615.6	643.2	608.4	643.2	615.6	643.2	70- 80	962.6	8872	90.1,90.1
90	156.7	174.0	153.6	174.0	156.7	174.0	153.6	174.0	80- 90	428.4	9300	94.4,94.4
100	26.08	42.36	54.09	42.36	26.08	42.36	54.09	42.36	90-100	73.89	9374	95.2,95.2
110	53.20	62.74	75.53	62.74	53.20	62.74	75.53	62.74	100-110	55.66	9430	95.8,95.8
120	79.82	80.67	95.28	80.67	79.82	80.67	95.28	80.67	110-120	73.14	9503	96.5,96.5
130	102.6	93.99	110.1	93.99	102.6	93.99	110.1	93.99	120-130	79.98	9583	97.3,97.3
140	120.1	103.6	117.9	103.6	120.1	103.6	117.9	103.6	130-140	80.46	9664	98.1,98.1
150	163.0	111.2	121.5	111.2	163.0	111.2	121.5	111.2	140-150	75.01	9739	98.9,98.9
160	183.0	114.8	107.1	114.8	183.0	114.8	107.1	114.8	150-160	60.53	9799	99.5,99.5
170	147.1	115.6	109.4	115.6	147.1	115.6	109.4	115.6	160-170	37.11	9836	99.9,99.9
180	76.61	149.8	186.9	149.8	76.61	149.8	186.9	149.8	170-180	11.04	9847	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 3467.1 lm

%lum = 35.2%

%lamp = 35.2%

Conical surface Flux(120deg): 6335.8 lm

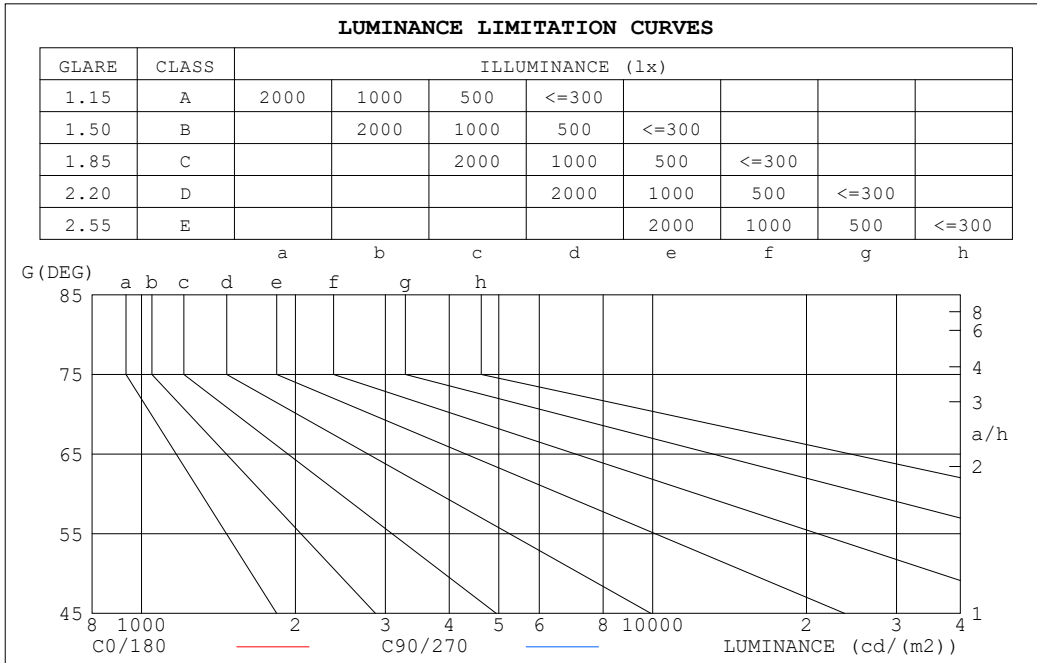
%lum = 64.3%

%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	70277	76145
80	60329	61055
75	60483	59136
70	62829	61479
65	65518	64636
60	66898	65760
55	65391	64461
50	62426	60876
45	57093	56131

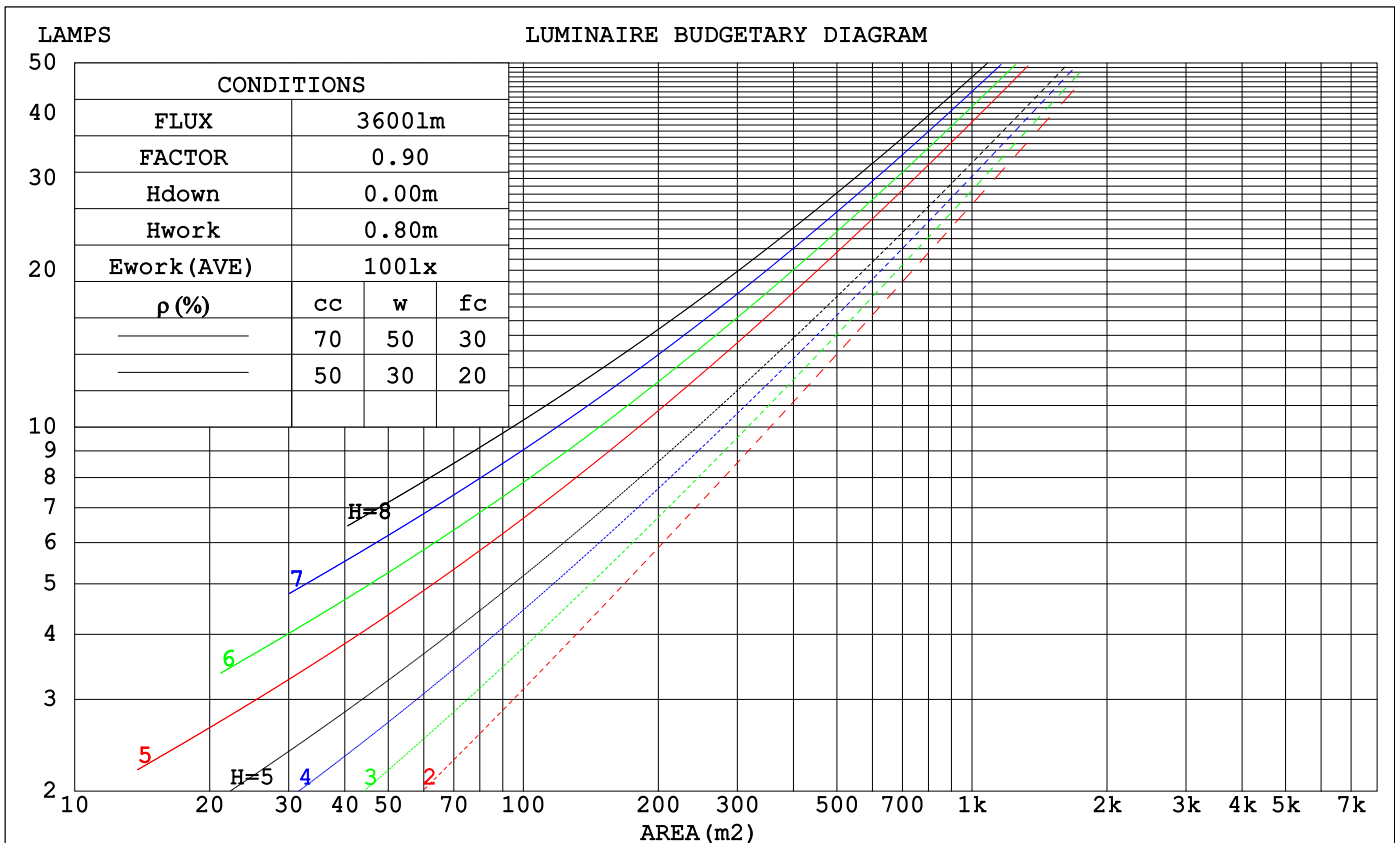
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: ZZK
 Test Date: 2023-08-10

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	27.2	28.9	27.6	29.3	29.7	27.1	28.8	27.6	29.2	29.7
3H	29.1	30.6	29.6	31.1	31.6	29.1	30.6	29.5	31.0	31.5
4H	29.9	31.3	30.3	31.8	32.3	29.8	31.3	30.3	31.7	32.2
6H	30.5	31.9	31.0	32.3	32.8	30.5	31.8	31.0	32.3	32.8
8H	30.8	32.1	31.3	32.6	33.1	30.8	32.1	31.3	32.6	33.1
12H	31.0	32.3	31.5	32.8	33.3	31.1	32.3	31.6	32.8	33.4
4H 2H	27.9	29.3	28.3	29.8	30.3	27.8	29.3	28.3	29.8	30.3
3H	30.0	31.2	30.5	31.7	32.3	30.0	31.2	30.5	31.7	32.3
4H	30.9	32.0	31.4	32.5	33.1	30.9	32.0	31.4	32.5	33.1
6H	31.7	32.7	32.2	33.2	33.8	31.7	32.7	32.2	33.3	33.8
8H	32.0	33.0	32.6	33.5	34.1	32.1	33.0	32.6	33.6	34.2
12H	32.4	33.2	32.9	33.8	34.4	32.5	33.3	33.0	33.9	34.5
8H 4H	31.3	32.2	31.8	32.8	33.3	31.3	32.2	31.8	32.8	33.4
6H	32.3	33.0	32.8	33.6	34.2	32.3	33.1	32.9	33.7	34.3
8H	32.7	33.4	33.3	34.0	34.6	32.8	33.5	33.4	34.1	34.7
12H	33.2	33.8	33.8	34.4	35.1	33.3	33.9	33.9	34.5	35.2
12H 4H	31.3	32.2	31.9	32.8	33.4	31.4	32.2	31.9	32.8	33.4
6H	32.4	33.1	33.0	33.7	34.3	32.4	33.1	33.0	33.7	34.4
8H	32.9	33.6	33.5	34.1	34.8	33.0	33.6	33.6	34.2	34.9
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

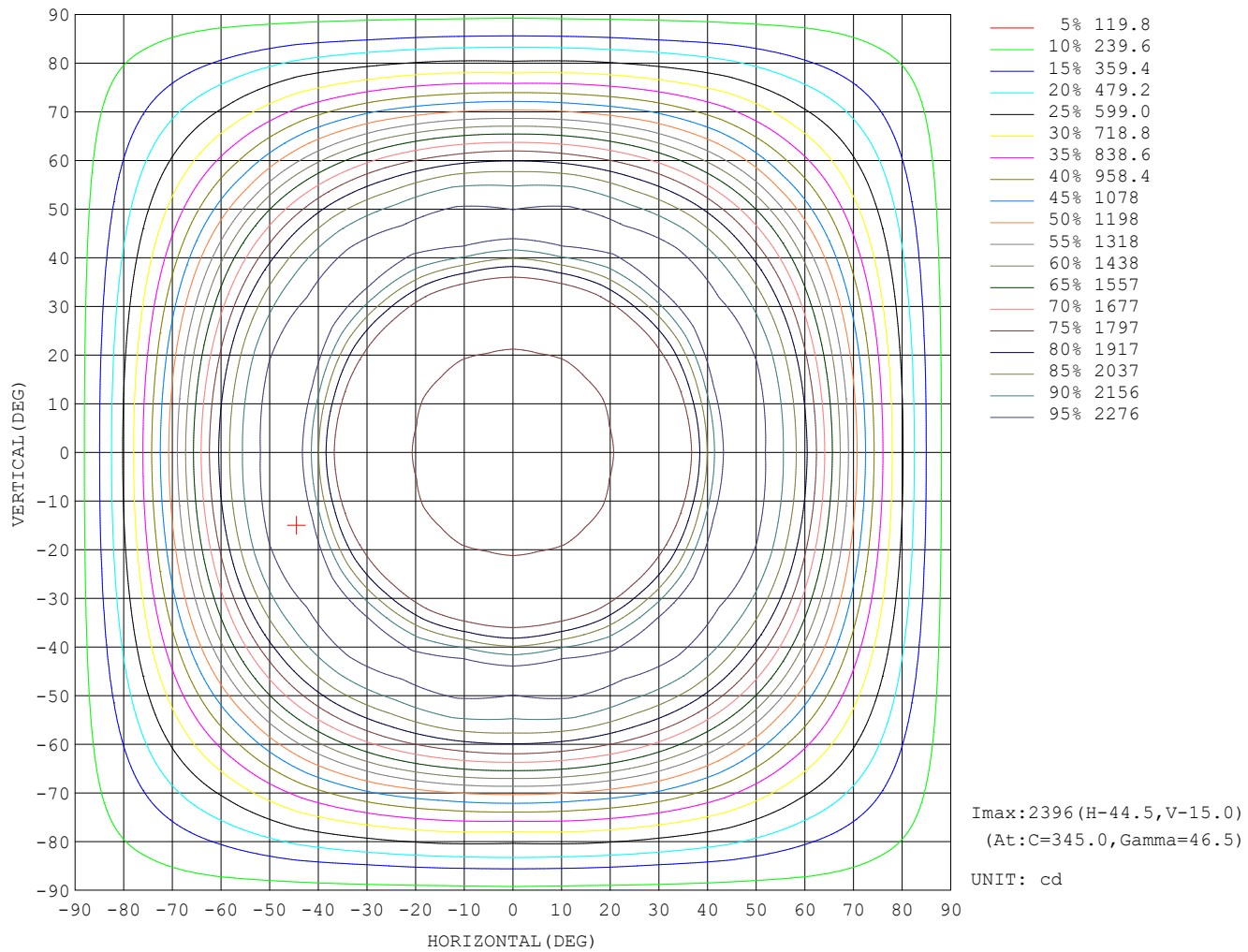
UTILIZATION FACTORS TABLE

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:

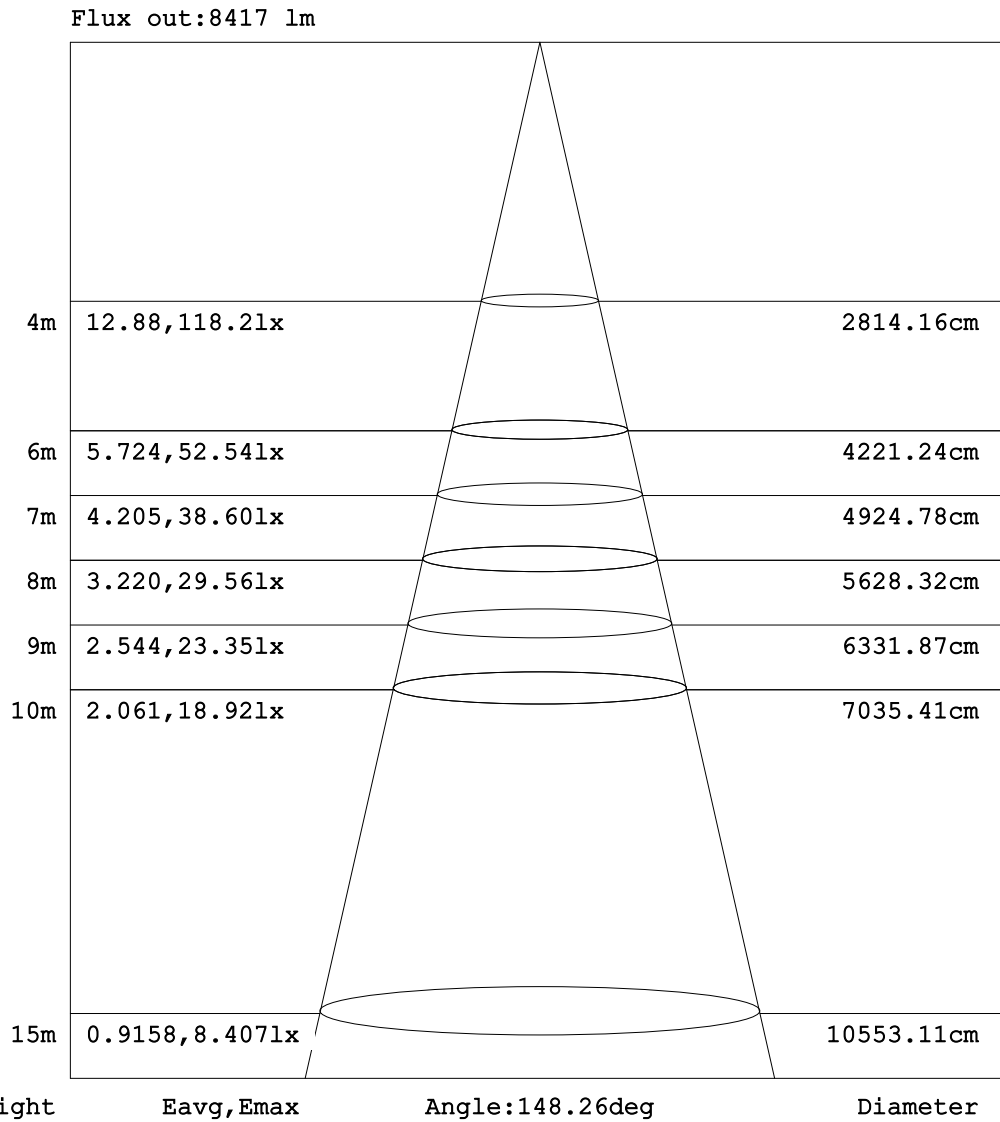
ISOCANDELA DIAGRAM



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

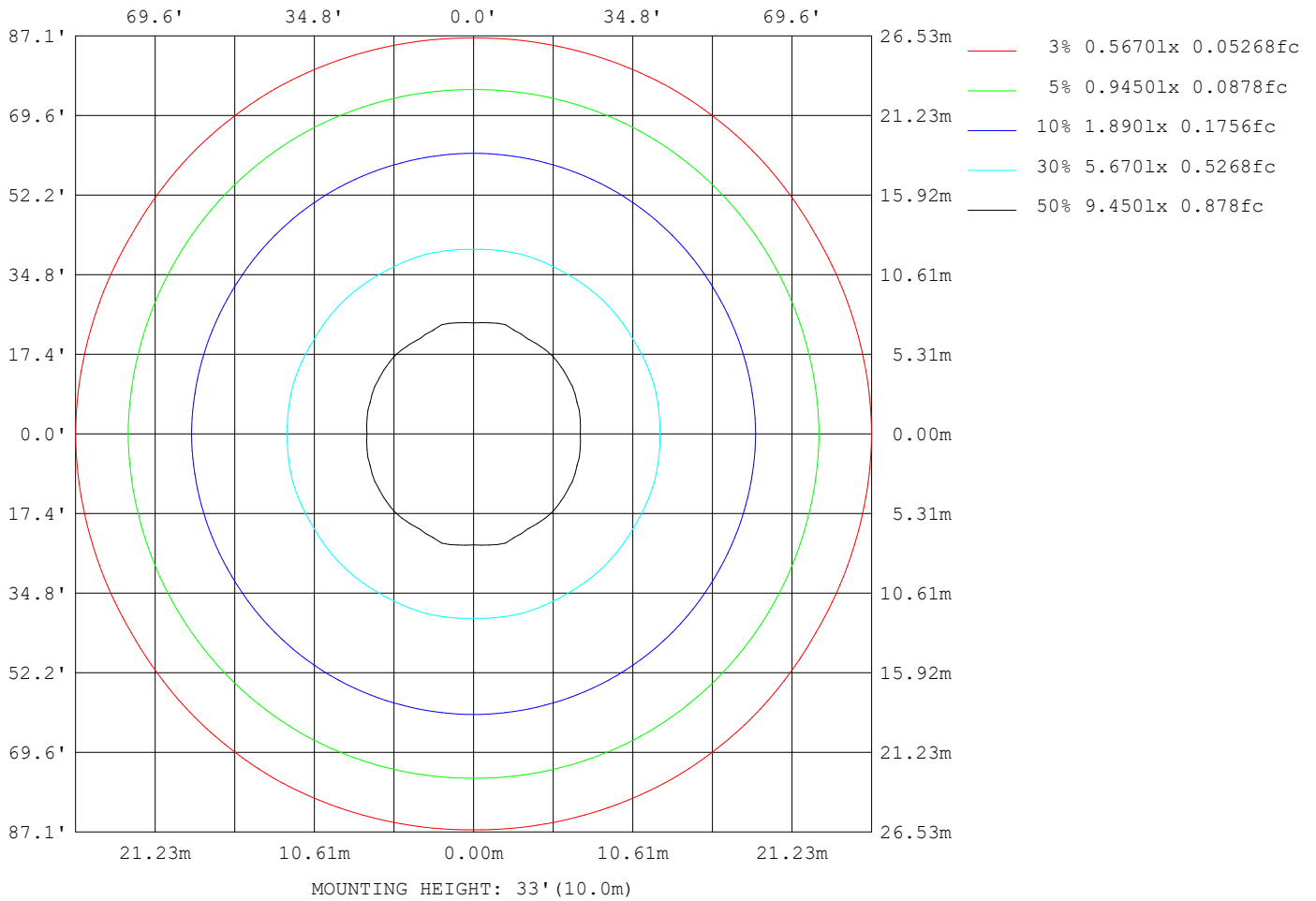


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:

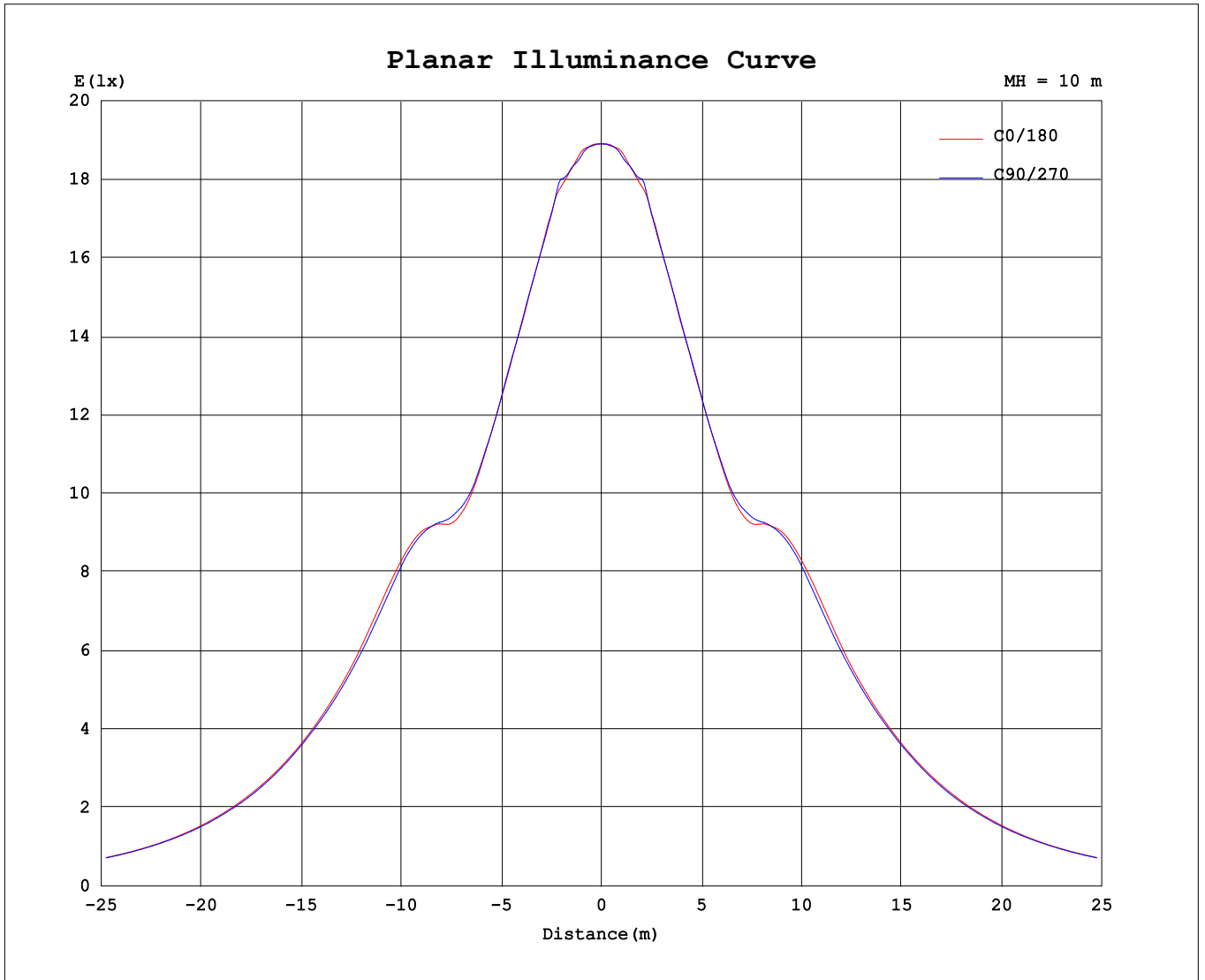
ISOLUX DIAGRAM



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: