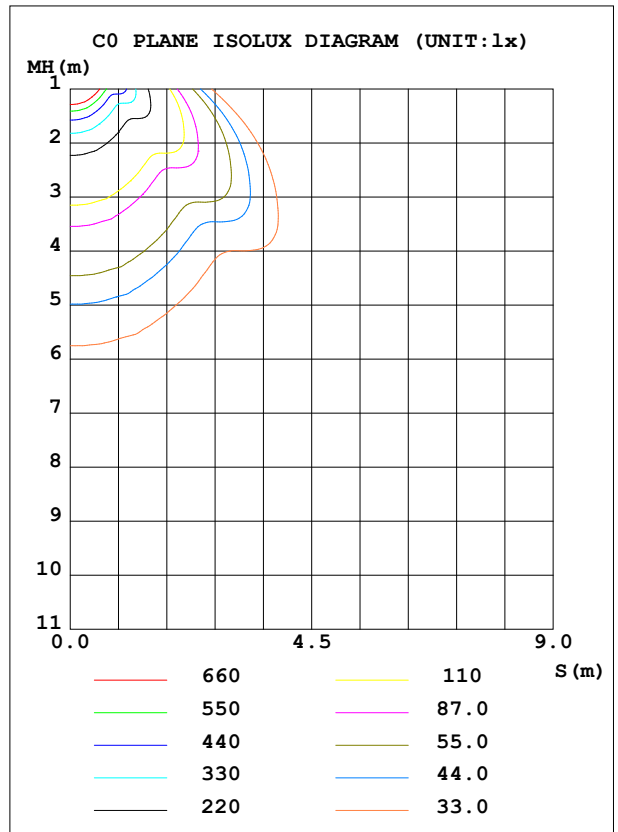
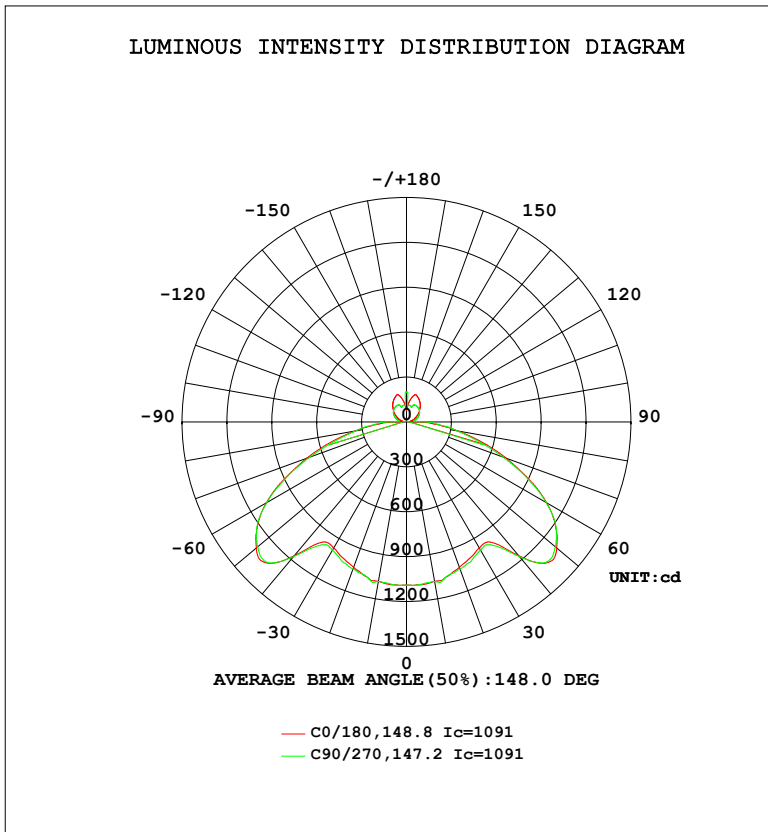


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.335A P:40.0W PF:0.994 Freq:50.00Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:5911.85x1 lm		
NAME: CP10-040-3070-A00C09	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 147.80 lm/W			
MODEL	/	Imax (cd)	1418	S/MH (C0/180)	1.37
NOMINAL POWER (W)	/	LOR (%)	100.0	S/MH (C90/270)	1.45
RATED VOLTAGE (V)	/	TOTAL FLUX (lm)	5911.8	η UP, DN (C0-180)	4.6, 45.4
NOMINAL FLUX (lm)	5911.85	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	1082	1093	1083	1093	1082	1093	1083	1093	0- 10	103.9	103.9	1.76,1.76
20	1033	1040	1047	1040	1033	1040	1047	1040	10- 20	301.1	405.0	6.85,6.85
30	973.0	982.7	988.5	982.7	973.0	982.7	988.5	982.7	20- 30	467.3	872.4	14.8,14.8
40	1167	1165	1175	1165	1167	1165	1175	1165	30- 40	650.9	1523	25.8,25.8
50	1311	1371	1298	1371	1311	1371	1298	1371	40- 50	1017	2540	43,43
60	1082	1135	1077	1135	1082	1135	1077	1135	50- 60	1118	3658	61.9,61.9
70	709.7	720.4	687.4	720.4	709.7	720.4	687.4	720.4	60- 70	907.4	4565	77.2,77.2
80	348.8	377.0	345.9	377.0	348.8	377.0	345.9	377.0	70- 80	548.9	5114	86.5,86.5
90	90.29	108.9	101.5	108.9	90.29	108.9	101.5	108.9	80- 90	249.8	5364	90.7,90.7
100	25.79	43.10	55.72	43.10	25.79	43.10	55.72	43.10	90-100	56.94	5421	91.7,91.7
110	54.19	64.27	78.15	64.27	54.19	64.27	78.15	64.27	100-110	56.91	5478	92.7,92.7
120	81.98	82.78	98.59	82.78	81.98	82.78	98.59	82.78	110-120	75.13	5553	93.9,93.9
130	112.7	97.16	113.9	97.16	112.7	97.16	113.9	97.16	120-130	82.61	5636	95.3,95.3
140	143.7	107.3	122.9	107.3	143.7	107.3	122.9	107.3	130-140	84.29	5720	96.8,96.8
150	170.5	116.9	126.5	116.9	170.5	116.9	126.5	116.9	140-150	78.52	5799	98.1,98.1
160	191.1	119.8	108.6	119.8	191.1	119.8	108.6	119.8	150-160	63.48	5862	99.2,99.2
170	152.6	120.5	113.1	120.5	152.6	120.5	113.1	120.5	160-170	38.46	5900	99.8,99.8
180	77.92	155.1	199.1	155.1	77.92	155.1	199.1	155.1	170-180	11.36	5912	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1993.7 lm

%lum = 33.7%

%lamp = 33.7%

Conical surface Flux(120deg): 3658 lm

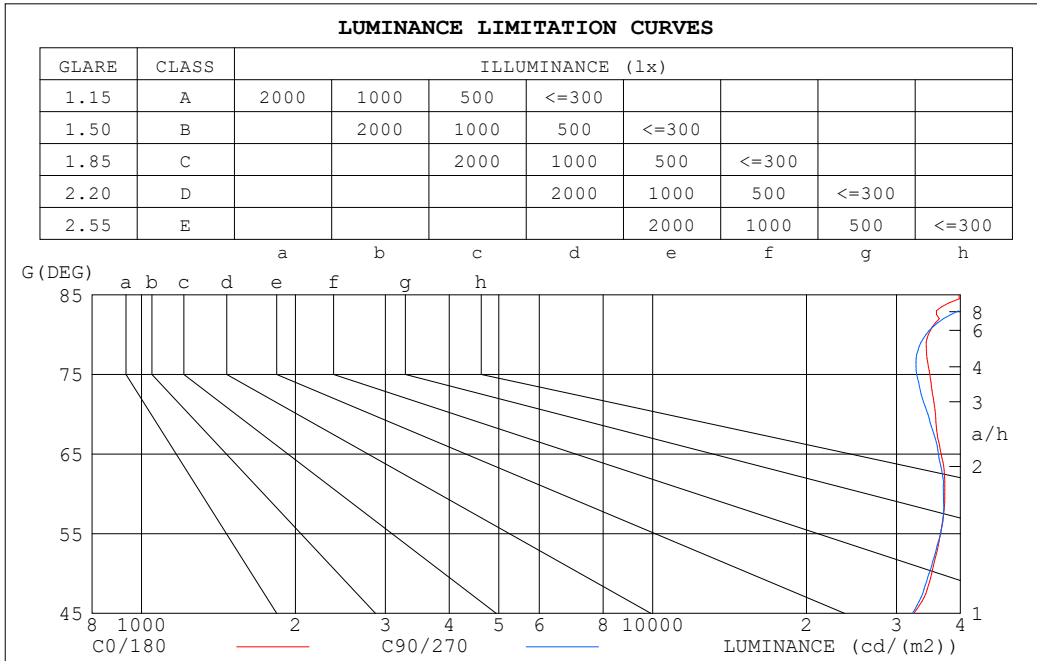
%lum = 61.9%

%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	39732	43998
80	34624	34266
75	34864	32861
70	35766	34569
65	36689	36245
60	37281	37058
55	36564	36606
50	35147	34731
45	32431	32212

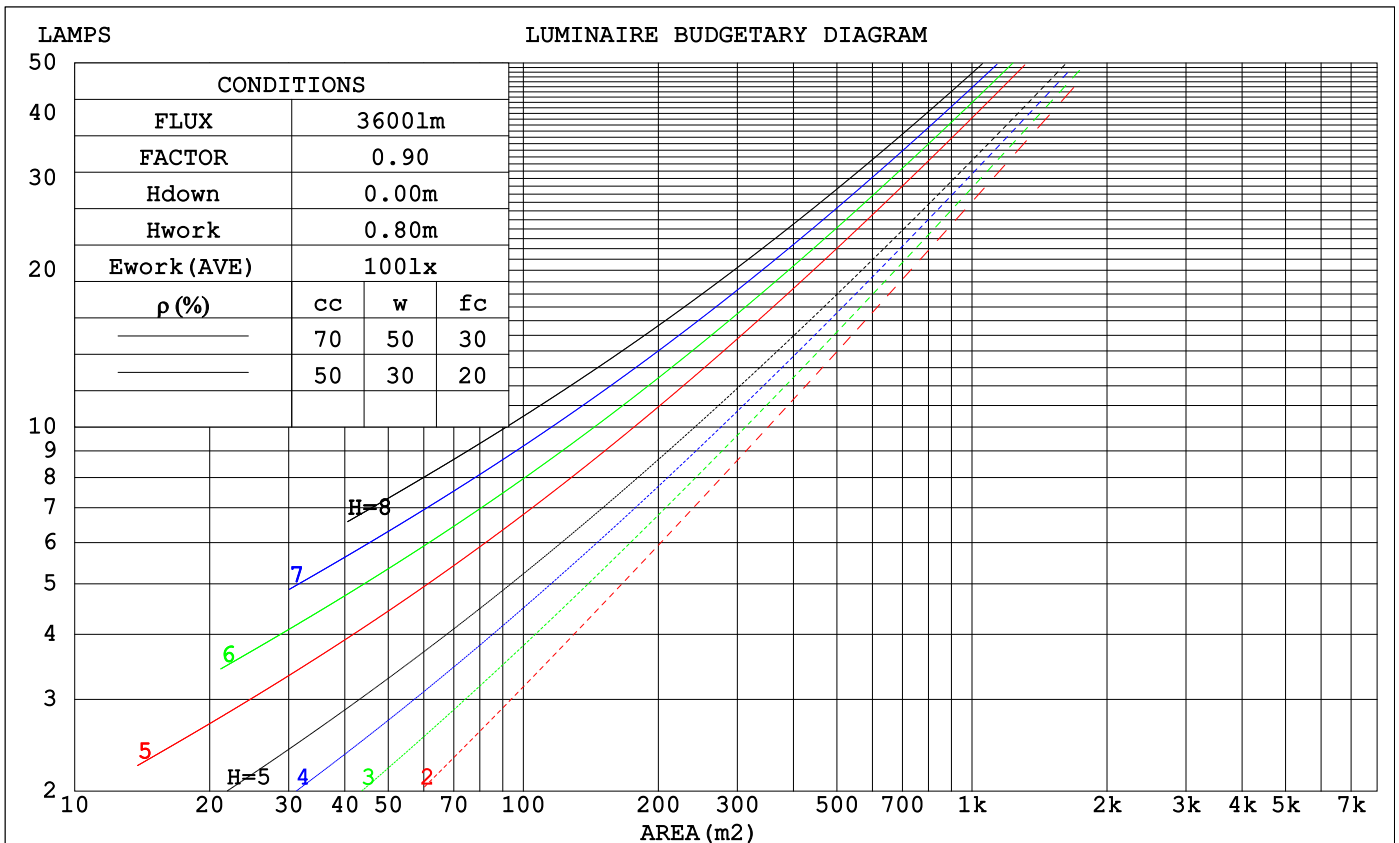
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: ZZK
 Test Date: 2023-08-10

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	.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		25.2	26.8	25.7	27.3	27.8	25.1	26.7	25.6	27.2	27.7
	3H	27.1	28.5	27.6	29.0	29.6	27.0	28.5	27.5	29.0	29.6
	4H	27.8	29.2	28.3	29.7	30.3	27.7	29.1	28.2	29.6	30.2
	6H	28.4	29.7	29.0	30.2	30.8	28.3	29.6	28.9	30.2	30.8
	8H	28.7	29.9	29.2	30.5	31.1	28.6	29.9	29.2	30.4	31.0
	12H	28.9	30.1	29.5	30.6	31.3	28.9	30.1	29.5	30.6	31.3
	4H 2H	25.9	27.3	26.4	27.8	28.4	25.8	27.2	26.3	27.7	28.3
	3H	27.9	29.1	28.5	29.6	30.3	27.9	29.1	28.4	29.6	30.2
	4H	28.8	29.8	29.3	30.4	31.0	28.7	29.8	29.3	30.4	31.0
	6H	29.5	30.5	30.1	31.1	31.7	29.6	30.5	30.1	31.1	31.7
	8H	29.9	30.8	30.5	31.4	32.0	29.9	30.8	30.5	31.4	32.1
	12H	30.2	31.0	30.8	31.6	32.3	30.3	31.1	30.9	31.7	32.4
	8H 4H	29.1	30.0	29.7	30.6	31.3	29.1	30.0	29.7	30.6	31.3
	6H	30.1	30.8	30.7	31.5	32.1	30.1	30.9	30.7	31.5	32.2
	8H	30.5	31.2	31.2	31.9	32.5	30.6	31.3	31.2	31.9	32.6
	12H	31.0	31.6	31.6	32.2	33.0	31.1	31.7	31.8	32.4	33.1
	12H 4H	29.2	30.0	29.8	30.6	31.3	29.2	30.0	29.8	30.6	31.3
	6H	30.2	30.9	30.9	31.5	32.2	30.2	30.9	30.9	31.5	32.3
	8H	30.7	31.3	31.4	32.0	32.7	30.8	31.4	31.5	32.1	32.8
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

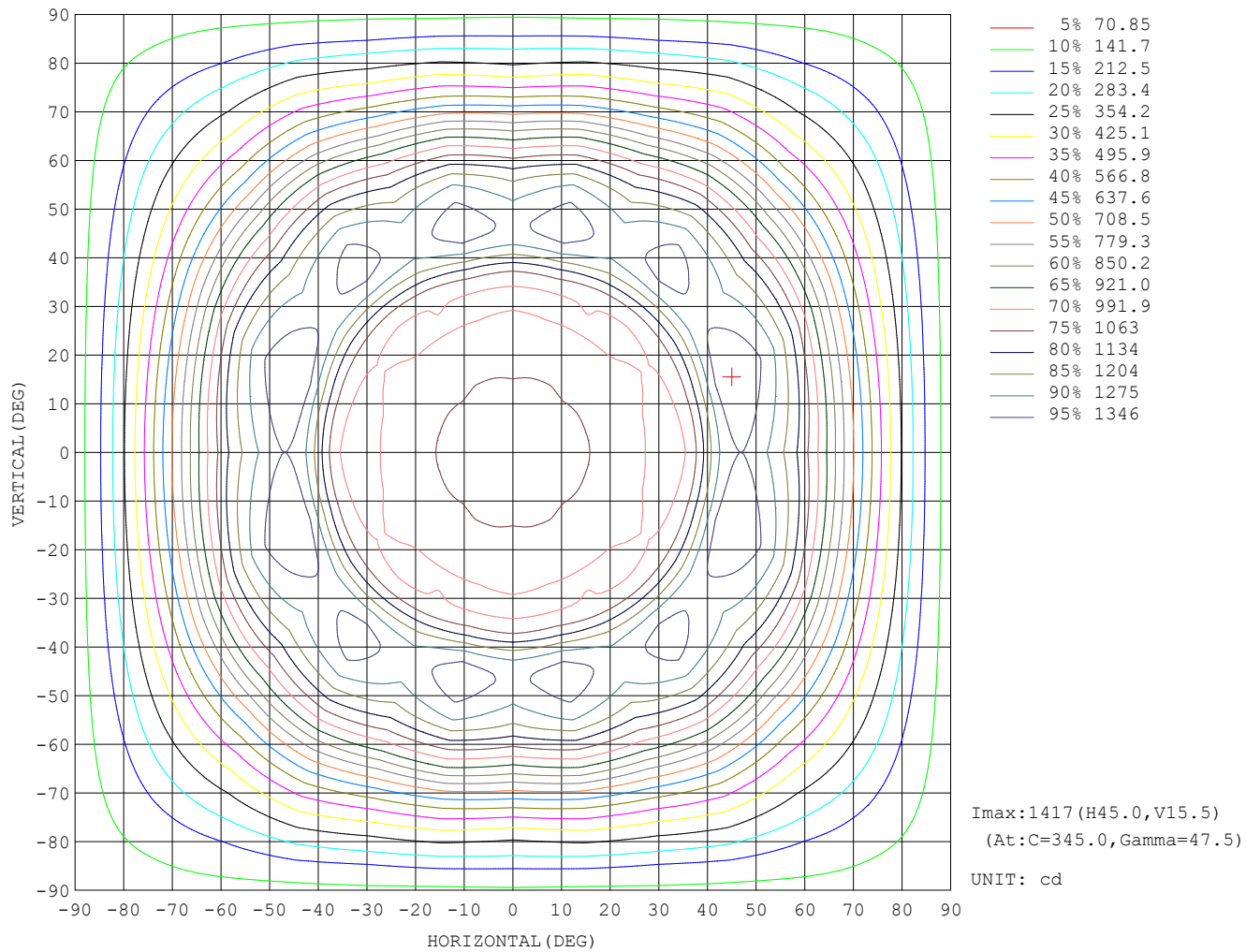
UTILIZATION FACTORS TABLE

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:

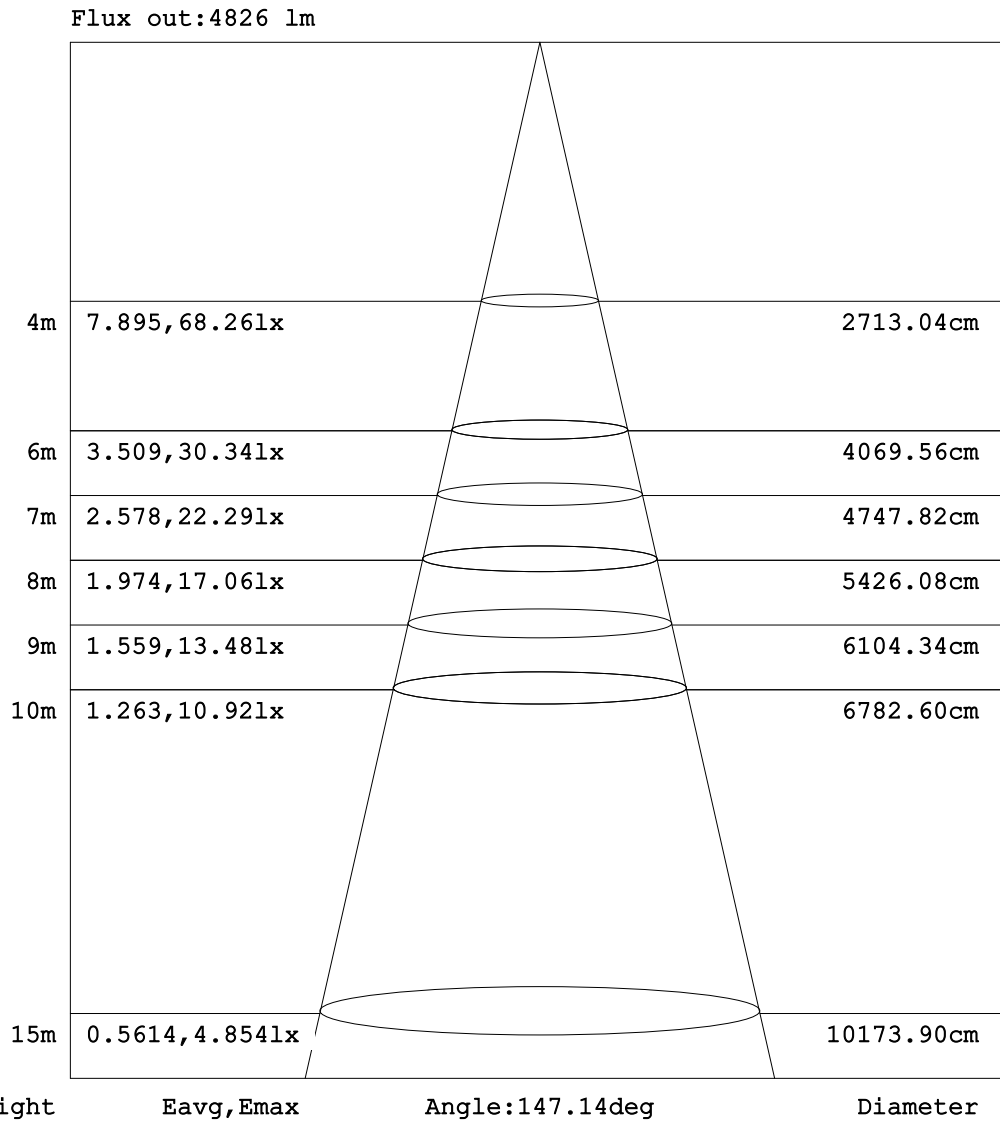
ISOCANDELA DIAGRAM



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

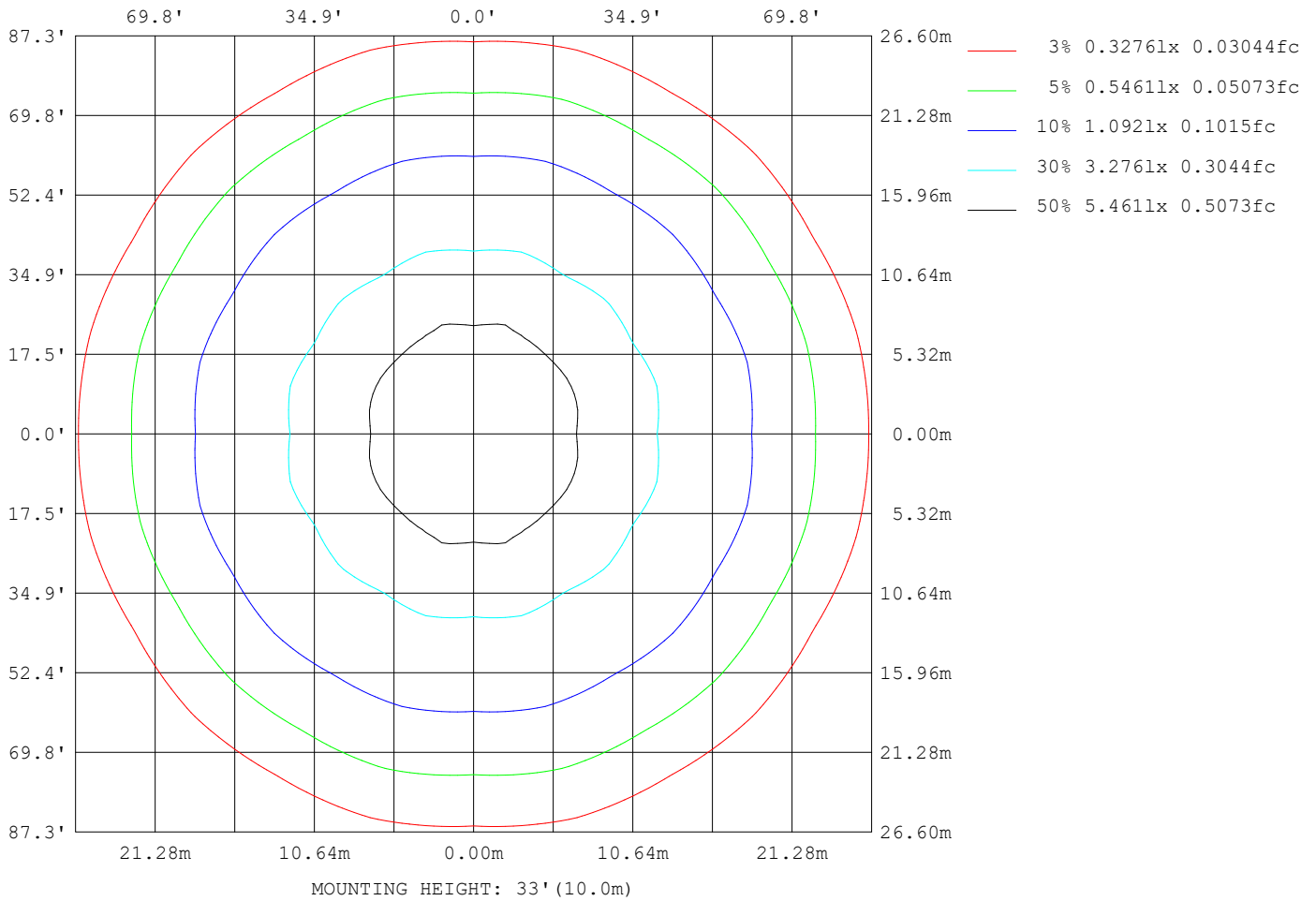


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:

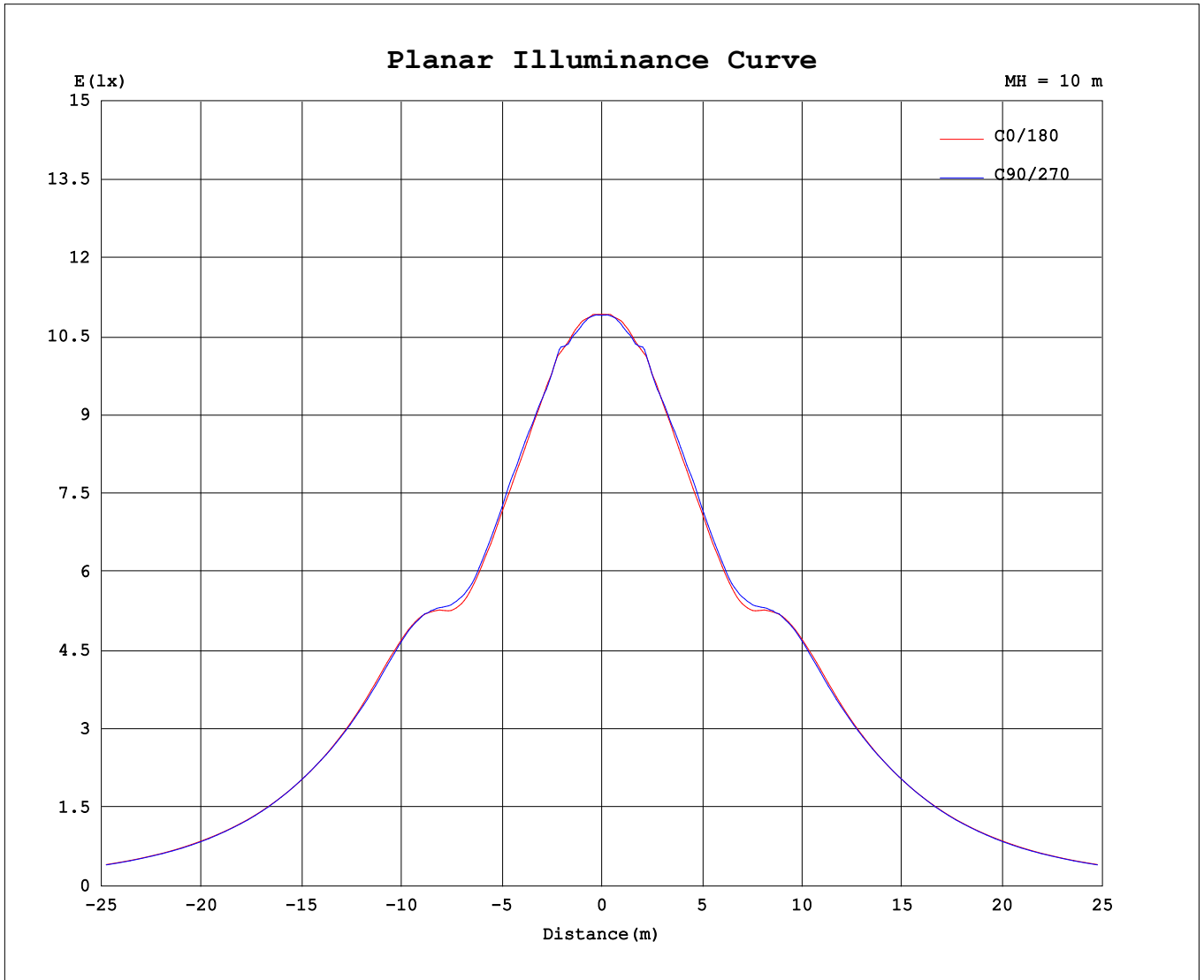
ISOLUX DIAGRAM



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