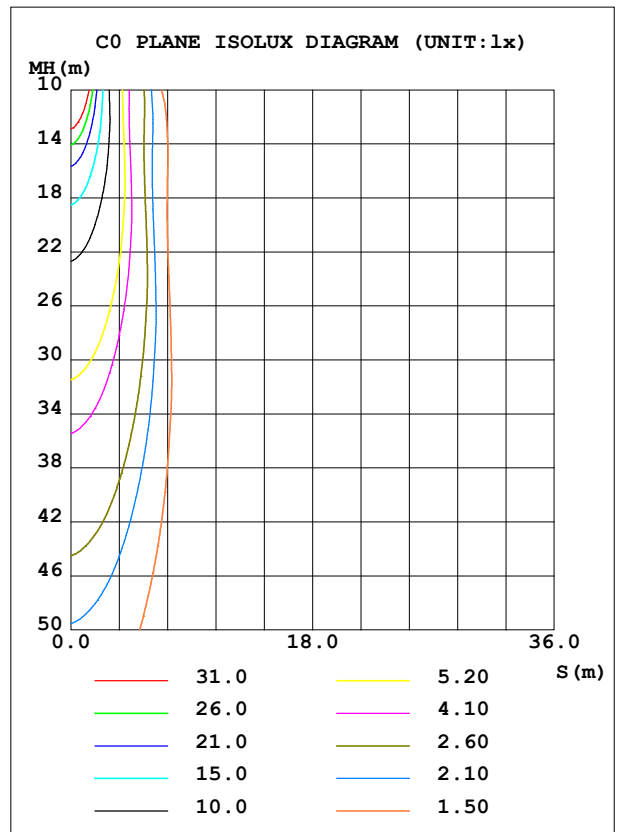
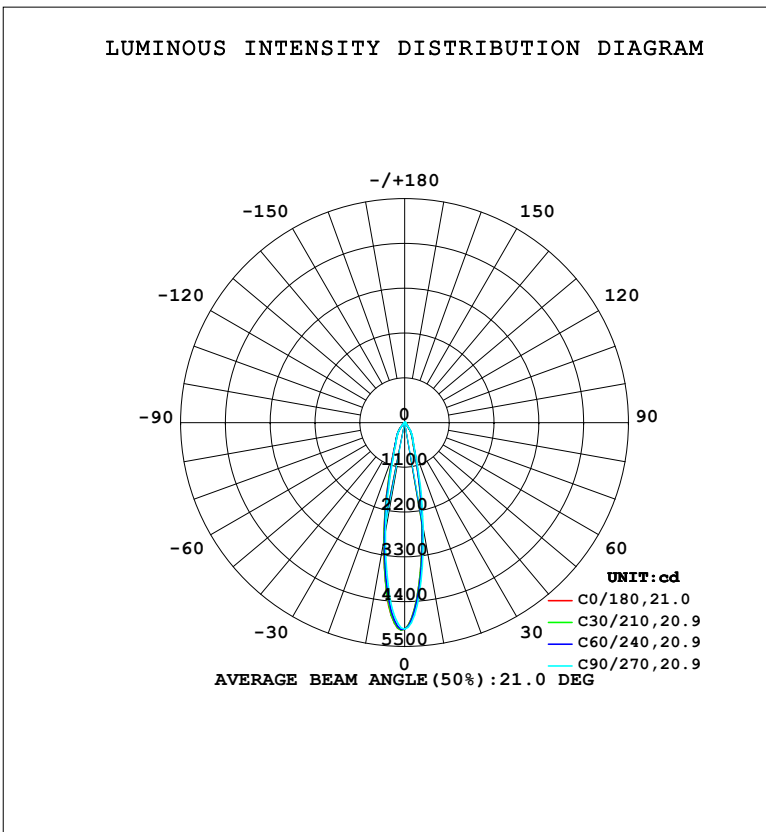


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.34V I:0.1001A P:12.155W PF:0.5509 Freq:50.00Hz Lamp Flux:1223.57x1 lm		
NAME:	TYPE: 射灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 47mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 100.66 lm/W
MODEL	314A	I _{max} (cd)	5105	S/MH (C0/180)	0.39	
NOMINAL POWER (W)	12	LOR (%)	100.0	S/MH (C90/270)	0.36	
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	1223.6	η UP, DN (C0-180)	0.0,49.6	
NOMINAL FLUX (lm)	1223.57	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0,50.4	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE (V)	219.5	η down (%)	100.0	CIBSE SHR MAX	0.30	



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2023-12-18

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.473
Humidity: 65.0%
Test Distance: 9.401m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	2451	2498	2634	2926	2961	2867	2726	2500	0- 10	354.3	354.3	29,29
20	692.2	695.0	732.3	816.1	833.4	809.6	759.1	698.3	10- 20	405.0	759.3	62.1,62.1
30	346.3	353.9	377.4	401.4	390.3	385.1	374.1	357.5	20- 30	237.0	996.3	81.4,81.4
40	109.1	119.6	136.7	154.9	147.5	138.5	122.7	116.8	30- 40	159.1	1155	94.4,94.4
50	23.32	22.94	20.08	27.61	29.75	28.72	21.99	24.18	40- 50	48.99	1204	98.4,98.4
60	8.051	7.613	7.058	8.350	8.966	8.607	7.967	8.047	50- 60	12.19	1217	99.4,99.4
70	3.239	2.618	1.777	2.897	3.873	3.251	2.043	2.921	60- 70	5.331	1222	99.9,99.9
80	0.7308	0.5802	0.6046	0.6187	0.7640	0.7317	0.5845	0.6872	70- 80	1.447	1223	100,100
90	0	0	0	0	0	0	0	0	80- 90	0.2675	1224	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): 1188.4 lm

%lum = 97.1%

%lamp = 97.1%

Conical surface Flux(130deg): 1219.7 lm

%lum = 99.7%

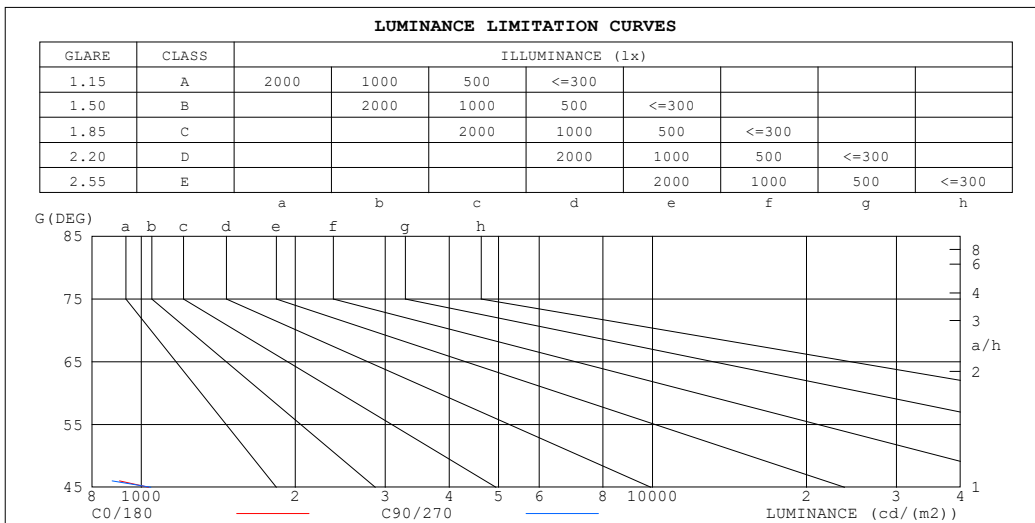
%lamp = 99.7%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-12-18

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
 Humidity:65.0%
 Test Distance:9.401m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.34V I:0.1001A P:12.155W PF:0.5509 Freq:50.00Hz Lamp Flux:1223.57x1 lm		
NAME:	TYPE: 射灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 47mm	Shielding Angle:



LUMINANCE cd/ (m2)		
G (DEG)	C0/180	C90/270
85	37	36
80	58	47
75	71	58
70	130	70
65	179	147
60	222	191
55	306	268
50	499	422
45	1033	1045

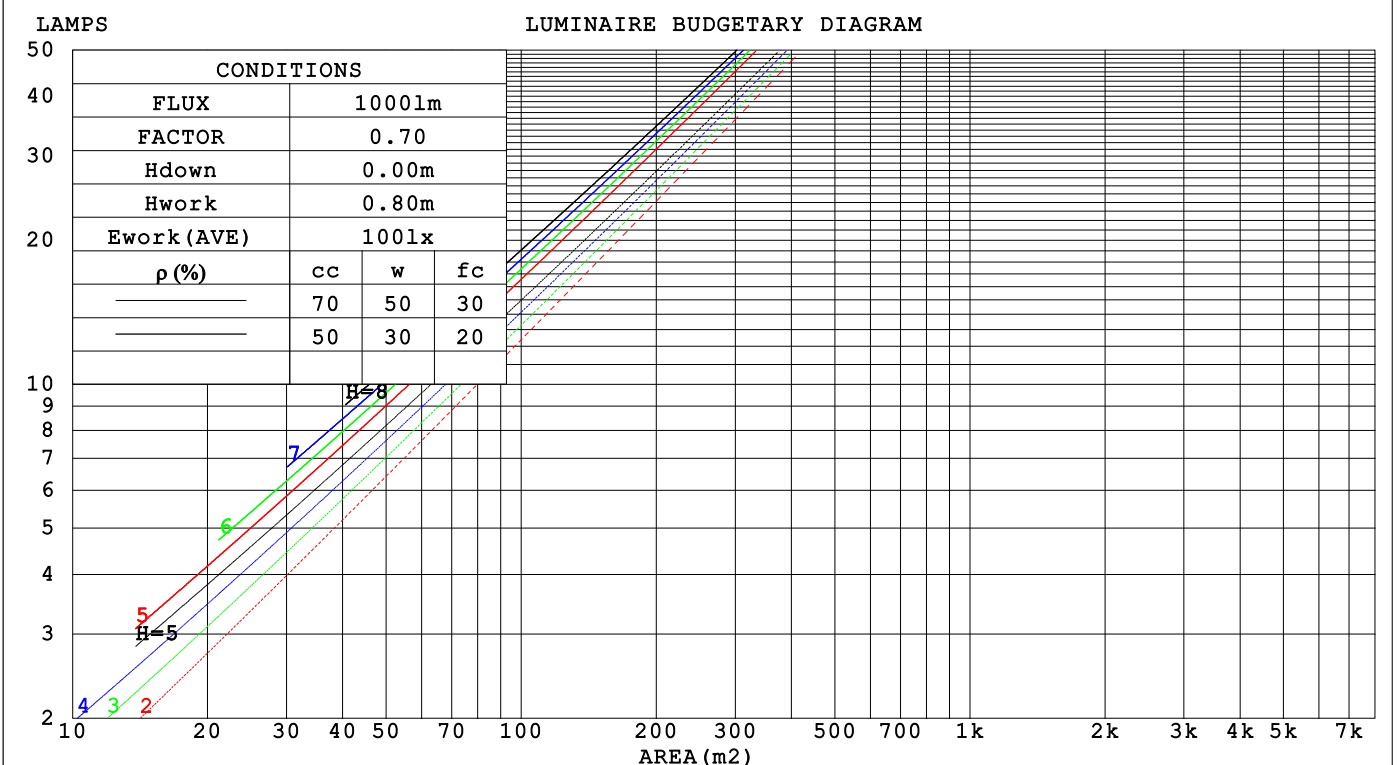
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-12-18

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
 Humidity:65.0%
 Test Distance:9.401m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.34V I:0.1001A P:12.155W PF:0.5509 Freq:50.00Hz Lamp Flux:1223.57x1 lm		
NAME:	TYPE: 射灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 47mm	Shielding Angle:

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	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.04	1.03	1.02	1.01	.00	.99	.98	.97	.95
2.0	1.06	1.02	.99	1.04	1.01	.98	1.01	.98	.96	.98	.96	.94	.95	.94	.92	.91
3.0	.00	.96	.92	.99	.95	.92	.96	.93	.90	.94	.91	.89	.92	.89	.88	.86
4.0	.95	.90	.87	.94	.90	.86	.92	.88	.85	.90	.87	.84	.88	.86	.83	.82
5.0	.90	.86	.82	.90	.85	.82	.88	.84	.81	.86	.83	.80	.85	.82	.80	.78
6.0	.86	.82	.78	.86	.81	.78	.84	.80	.77	.83	.79	.77	.82	.79	.76	.75
7.0	.83	.78	.74	.82	.78	.74	.81	.77	.74	.80	.76	.73	.79	.76	.73	.72
8.0	.80	.75	.71	.79	.74	.71	.78	.74	.71	.77	.73	.71	.76	.73	.70	.69
9.0	.76	.72	.68	.76	.71	.68	.75	.71	.68	.74	.71	.68	.74	.70	.68	.67
10.0	.74	.69	.66	.73	.69	.66	.73	.68	.66	.72	.68	.65	.71	.68	.65	.64



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-12-18

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
 Humidity:65.0%
 Test Distance:9.401m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:220.34V I:0.1001A P:12.155W PF:0.5509 Freq:50.00Hz		
Lamp Flux:1223.57x1 lm		
NAME:	TYPE: 射灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 47mm	Shielding Angle:

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	.155	.088	.028	.148	.085	.027	.136	.078	.025	.124	.072	.023	.114	.066	.021	
2.0	.146	.080	.025	.141	.078	.024	.130	.072	.023	.121	.068	.021	.112	.063	.020	
3.0	.138	.073	.022	.133	.071	.021	.124	.067	.021	.116	.064	.020	.109	.060	.019	
4.0	.130	.068	.020	.126	.066	.020	.119	.063	.019	.112	.060	.018	.105	.057	.017	
5.0	.123	.063	.018	.120	.062	.018	.113	.059	.017	.108	.057	.017	.102	.054	.016	
6.0	.117	.059	.017	.114	.058	.017	.109	.056	.016	.103	.054	.016	.098	.052	.015	
7.0	.111	.055	.016	.109	.054	.015	.104	.053	.015	.099	.051	.015	.095	.049	.015	
8.0	.106	.052	.015	.104	.051	.014	.100	.050	.014	.096	.048	.014	.092	.047	.014	
9.0	.102	.049	.014	.099	.048	.014	.096	.047	.013	.092	.046	.013	.089	.045	.013	
10.0	.097	.047	.013	.095	.046	.013	.092	.045	.013	.089	.044	.013	.086	.043	.012	

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	.170	.158	.147	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.153	.133	.116	.131	.114	.100	.090	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.139	.113	.093	.119	.098	.081	.082	.068	.057	.047	.040	.033	.015	.013	.011	
4.0	.128	.098	.076	.109	.085	.066	.075	.059	.047	.044	.035	.028	.014	.011	.009	
5.0	.118	.086	.063	.101	.075	.055	.070	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.110	.077	.053	.094	.066	.046	.065	.046	.033	.038	.027	.019	.012	.009	.006	
7.0	.102	.069	.045	.088	.060	.039	.061	.042	.028	.035	.025	.017	.011	.008	.005	
8.0	.096	.062	.039	.083	.054	.034	.057	.038	.024	.033	.022	.014	.011	.007	.005	
9.0	.091	.057	.034	.078	.049	.029	.054	.035	.021	.032	.020	.012	.010	.007	.004	
10.0	.086	.052	.030	.074	.045	.026	.051	.032	.018	.030	.019	.011	.010	.006	.004	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-12-18

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
 Humidity:65.0%
 Test Distance:9.401m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.34V I:0.1001A P:12.155W PF:0.5509 Freq:50.00Hz Lamp Flux:1223.57x1 lm		
NAME:	TYPE: 射灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 47mm	Shielding Angle:

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	6.1	6.8	6.3	7.0	7.2	6.4	7.2	6.6	7.3	7.5
3H	6.0	6.7	6.2	6.9	7.1	6.3	7.0	6.5	7.2	7.4
4H	5.9	6.6	6.2	6.8	7.0	6.2	6.9	6.4	7.1	7.3
6H	5.8	6.5	6.1	6.7	6.9	6.1	6.7	6.4	7.0	7.2
8H	5.8	6.4	6.1	6.6	6.9	6.1	6.7	6.4	6.9	7.2
12H	5.7	6.3	6.0	6.6	6.9	6.0	6.6	6.3	6.9	7.1
4H 2H	5.9	6.6	6.1	6.8	7.0	6.2	6.9	6.4	7.1	7.3
3H	5.8	6.4	6.1	6.6	6.9	6.0	6.6	6.4	6.9	7.2
4H	5.7	6.2	6.0	6.5	6.8	6.0	6.5	6.3	6.8	7.1
6H	5.6	6.1	6.0	6.4	6.8	5.9	6.3	6.2	6.7	7.0
8H	5.6	6.0	5.9	6.4	6.7	5.8	6.3	6.2	6.6	7.0
12H	5.5	5.9	5.9	6.3	6.7	5.8	6.2	6.2	6.5	6.9
8H 4H	5.6	6.0	5.9	6.3	6.7	5.8	6.3	6.2	6.6	7.0
6H	5.5	5.8	5.9	6.2	6.6	5.7	6.1	6.1	6.5	6.9
8H	5.4	5.7	5.9	6.2	6.6	5.7	6.0	6.1	6.4	6.8
12H	5.4	5.6	5.8	6.1	6.5	5.6	5.9	6.1	6.3	6.8
12H 4H	5.5	5.9	5.9	6.3	6.7	5.8	6.2	6.2	6.5	6.9
6H	5.4	5.7	5.8	6.1	6.6	5.7	6.0	6.1	6.4	6.8
8H	5.4	5.6	5.8	6.1	6.5	5.6	5.9	6.1	6.3	6.8

Variations with the observer position at spacings(CIE Pub.117):		
S = 1.0H	+ 3.2 / - 7.3	+ 3.6 / - 9.1
1.5H	+ 5.2 / - 6.3	+ 5.8 / - 7.4
2.0H	+ 5.3 / - 3.8	+ 5.9 / - 3.9

CIE Pub.117, 1224 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.7)
Area: 0.07379 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2023-12-18

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
Humidity:65.0%
Test Distance:9.401m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.34V I:0.1001A P:12.155W PF:0.5509 Freq:50.00Hz Lamp Flux:1223.57x1 lm		
NAME:	TYPE: 射灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 47mm	Shielding Angle:

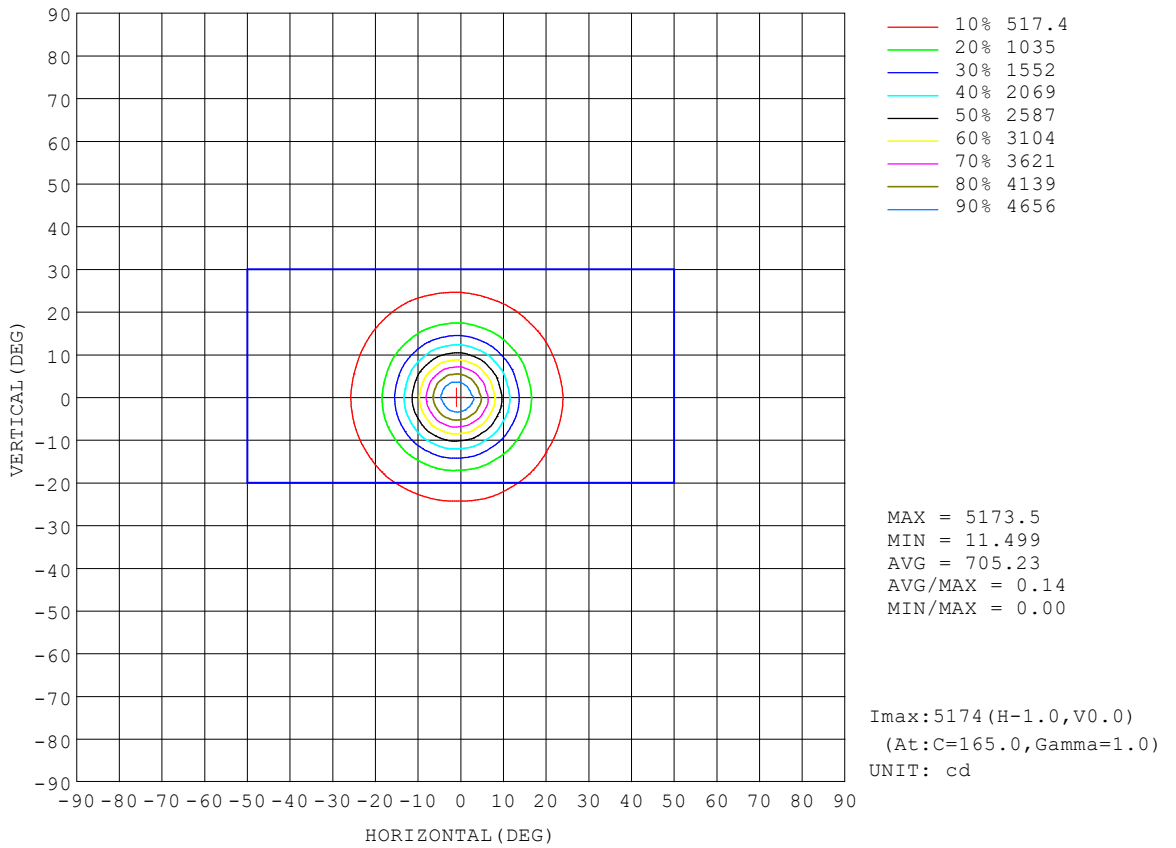
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	88	82	78	88	82	78	87	81	78	74
0.80	95	90	86	95	89	86	94	89	86	82
1.00	100	94	91	99	94	90	97	94	90	86
1.25	104	99	95	103	98	95	101	97	94	90
1.50	106	102	98	105	101	98	103	100	97	93
2.00	109	105	102	107	104	101	105	102	99	94
2.50	111	107	104	109	106	103	106	103	101	95
3.00	112	109	106	110	107	105	107	105	103	96
4.00	114	111	109	112	110	108	108	107	105	98
5.00	115	113	111	113	111	110	109	108	107	99
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:DAMIN
 Test Date:2023-12-18

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
 Humidity:65.0%
 Test Distance:9.401m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:220.34V I:0.1001A P:12.155W PF:0.5509 Freq:50.00Hz Lamp Flux:1223.57x1 lm		
NAME:	TYPE: 射灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 47mm	Shielding Angle:

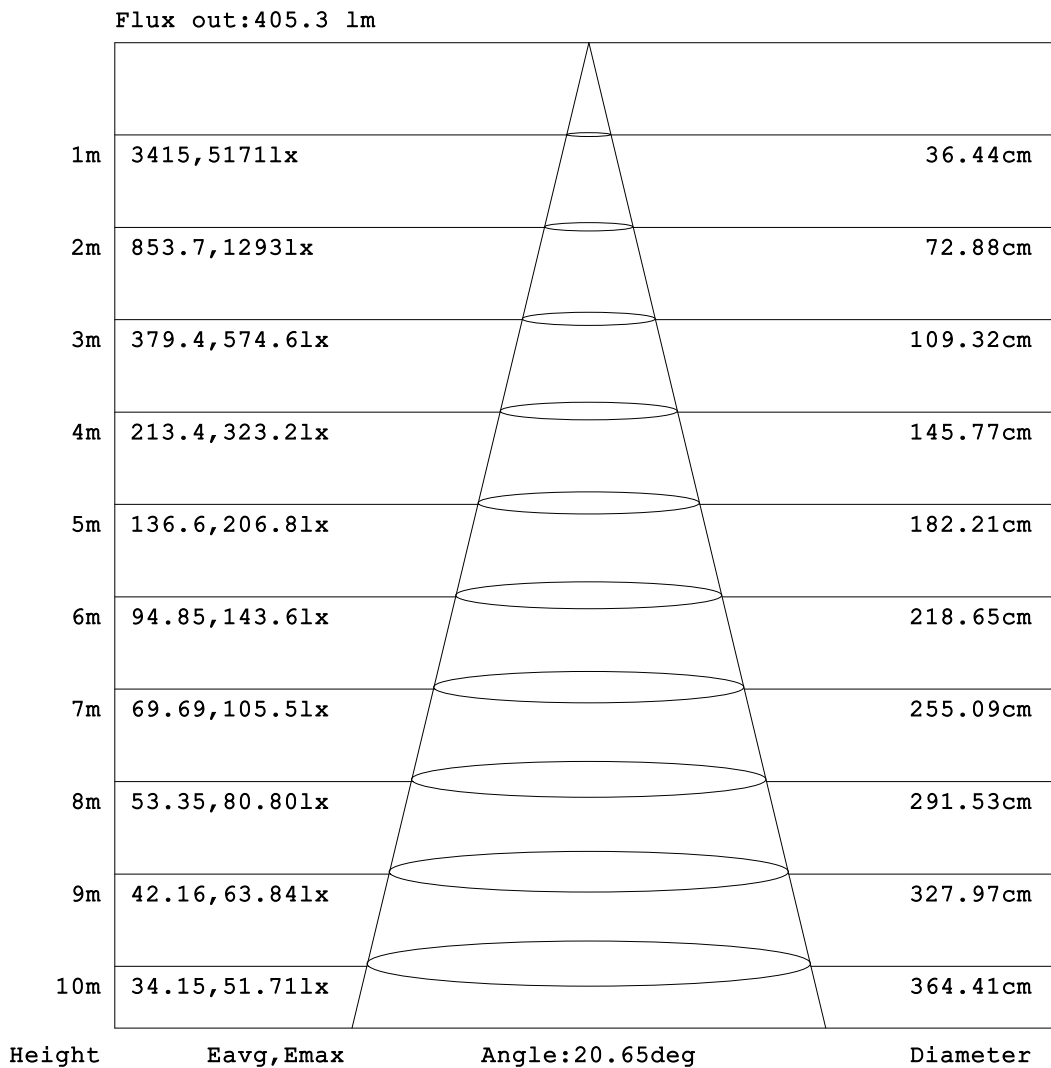


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-12-18

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
 Humidity:65.0%
 Test Distance:9.401m [K=1.0000]
 Remarks:

AAI Figure

Test:U:220.34V I:0.1001A P:12.155W PF:0.5509 Freq:50.00Hz Lamp Flux:1223.57x1 lm		
NAME:	TYPE: 射灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 47mm	Shielding Angle:



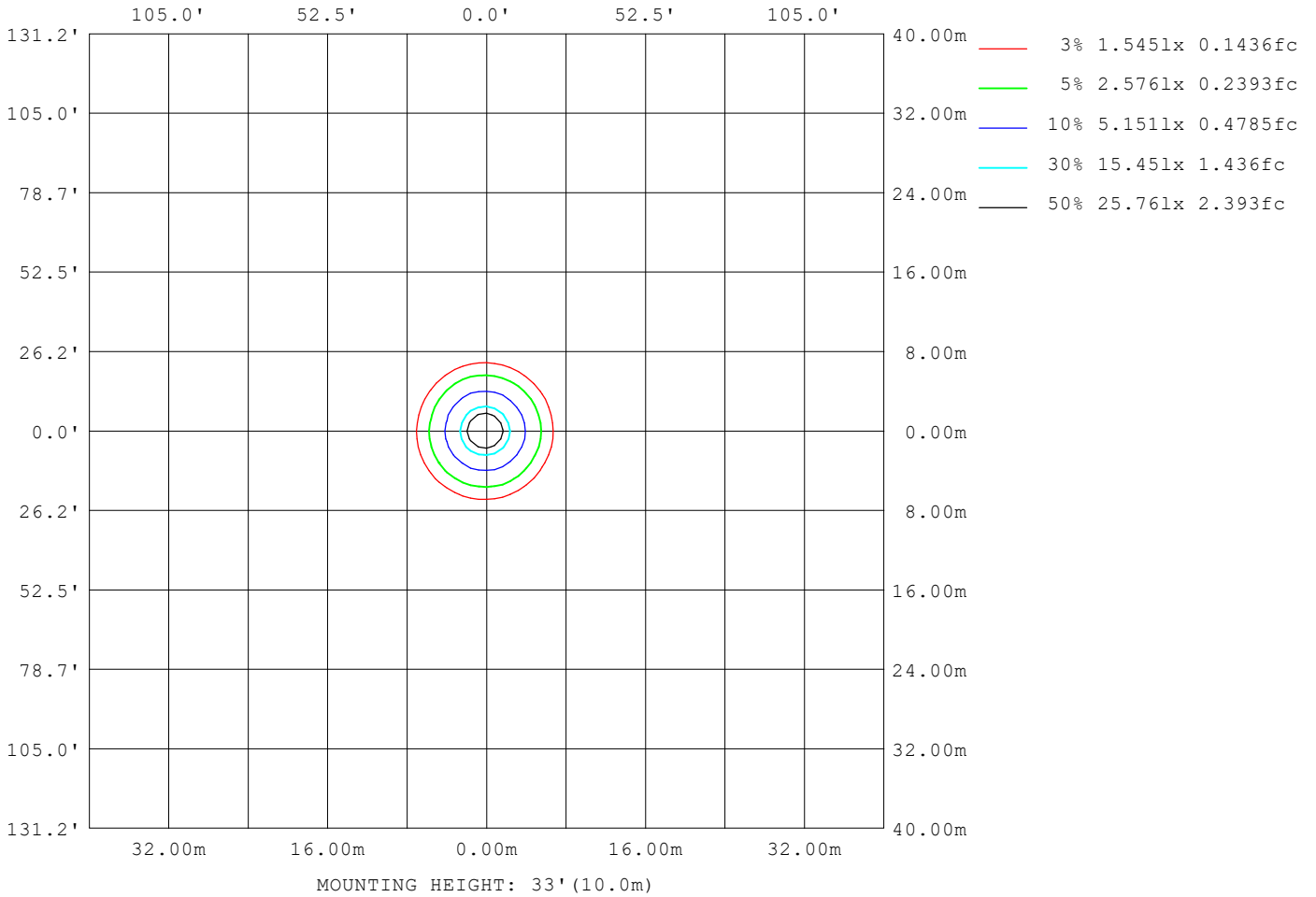
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2023-12-18

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.473
Humidity: 65.0%
Test Distance: 9.401m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:220.34V I:0.1001A P:12.155W PF:0.5509 Freq:50.00Hz Lamp Flux:1223.57x1 lm		
NAME:	TYPE: 射灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 47mm	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-12-18

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
 Humidity:65.0%
 Test Distance:9.401m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:220.34V I:0.1001A P:12.155W PF:0.5509 Freq:50.00Hz Lamp Flux:1223.57x1 lm		
NAME:	TYPE: 射灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 47mm	Shielding Angle:

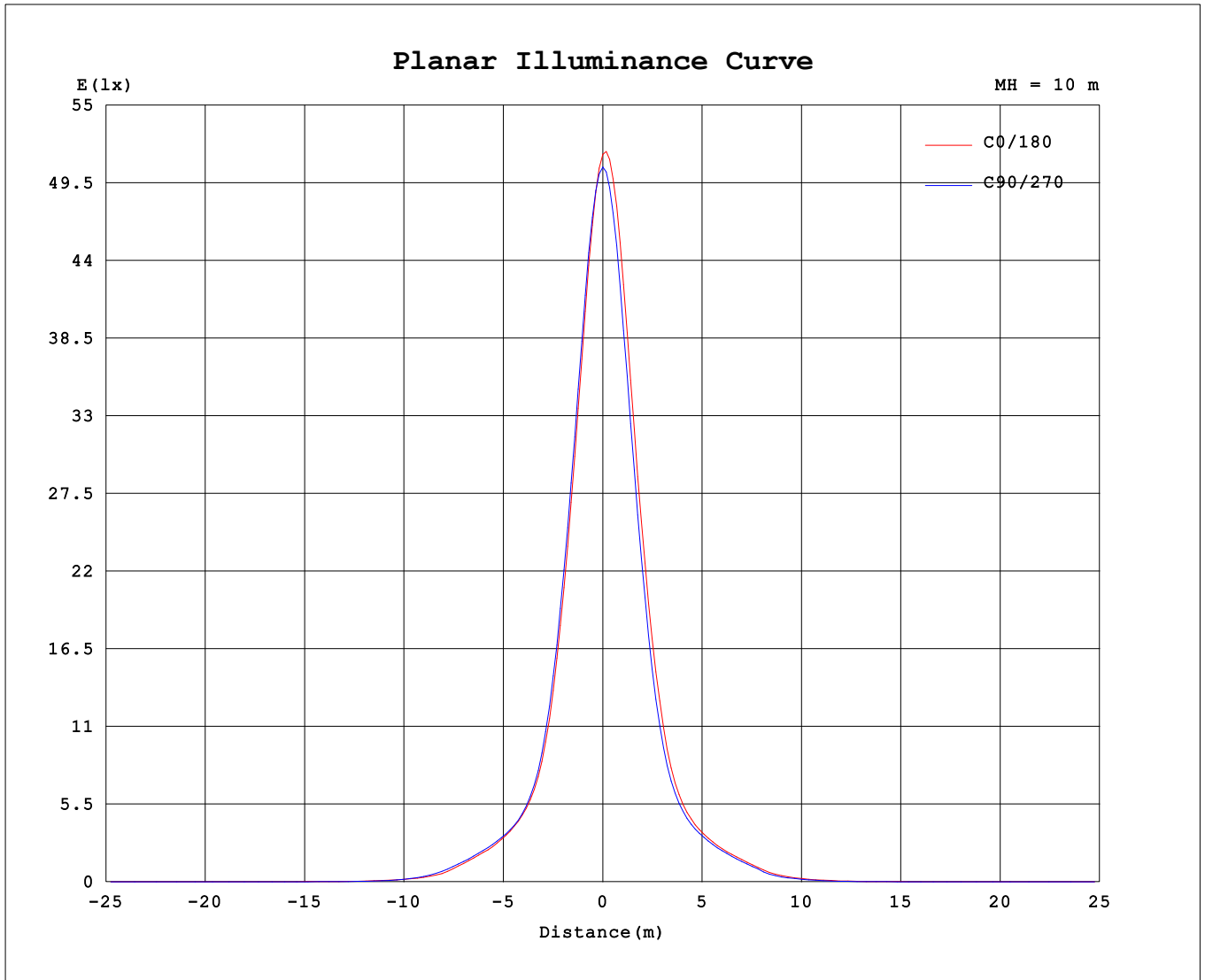
AvgL	cd/m2
L_0~180 (65) av	183
L_0~180 (75) av	71
L_0~180 (85) av	37
L_90~270 (65) av	159
L_90~270 (75) av	60
L_90~270 (85) av	29
L_45 (65) av	173
L_45 (75) av	64
L_45 (85) av	31

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:2023-12-18

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
 Humidity:65.0%
 Test Distance:9.401m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: DAMIN
 Test Date: 2023-12-18

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.473
 Humidity: 65.0%
 Test Distance: 9.401m [K=1.0000]
 Remarks:

