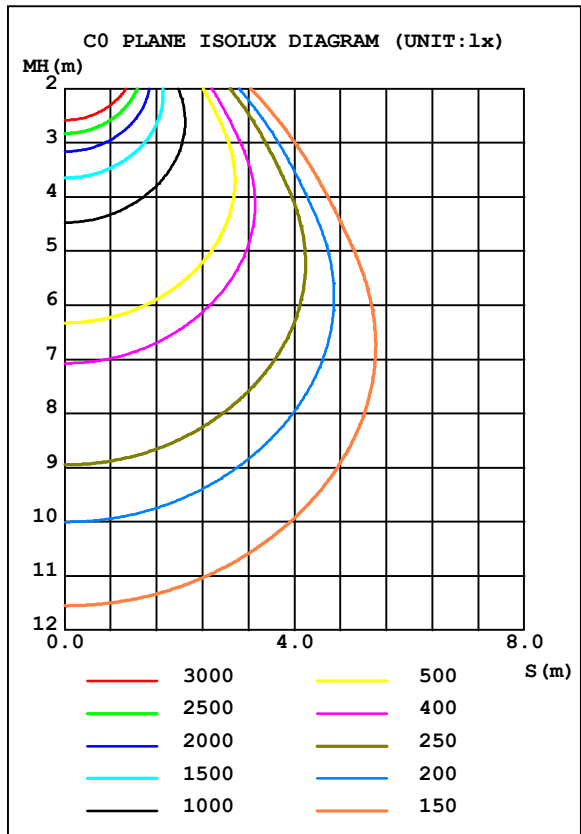
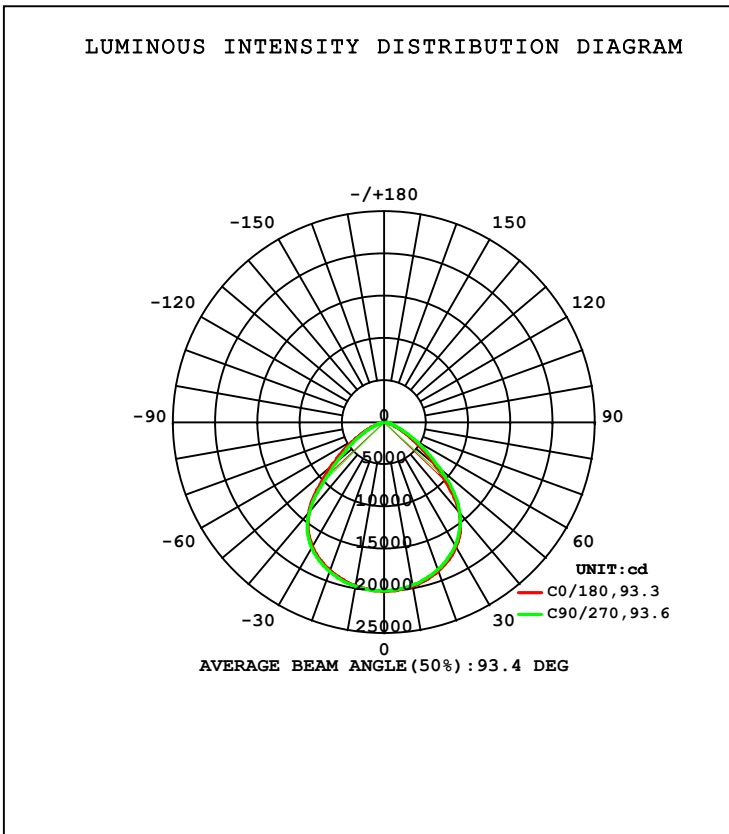


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.80V I:1.7320A P:207.10W PF:0.9980 Freq:50.00Hz Lamp Flux:42405.3x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 204.76 lm/W			
MODEL		I _{max} (cd)	20013	S/MH (C0/180)	1.26
NOMINAL POWER (W)	200	LOR (%)	100.0	S/MH (C90/270)	1.27
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	42405	η UP, DN (C0-180)	0.0, 50.6
NOMINAL FLUX (lm)	42405.3	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 49.4
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120	η down (%)	100.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Wangzhilie
 Test Date: 2024-01-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity: 65.0%
 Test Distance: 7.435m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	1973	1959	1967	1974					0- 10	1894	1894	4.47, 4.47
20	1879	1861	1872	1886					10- 20	5447	7341	17.3, 17.3
30	1710	1690	1701	1719					20- 30	8294	15635	36.9, 36.9
40	1383	1397	1388	1378					30- 40	9791	25425	60, 60
50	784.2	882.9	831.8	733.2					40- 50	8473	33899	79.9, 79.9
60	358.4	431.2	393.8	333.7					50- 60	5153	39051	92.1, 92.1
70	129.5	157.7	133.8	114.9					60- 70	2391	41443	97.7, 97.7
80	39.75	45.40	35.30	30.77					70- 80	812.3	42255	99.6, 99.6
90	0	0	0	0					80- 90	150.3	42405	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: *10cd									UNIT: lm		

Conical surface Flux(90deg): 30063 lm

%lum = 70.9%

%lamp = 70.9%

Conical surface Flux(120deg): 39051 lm

%lum = 92.1%

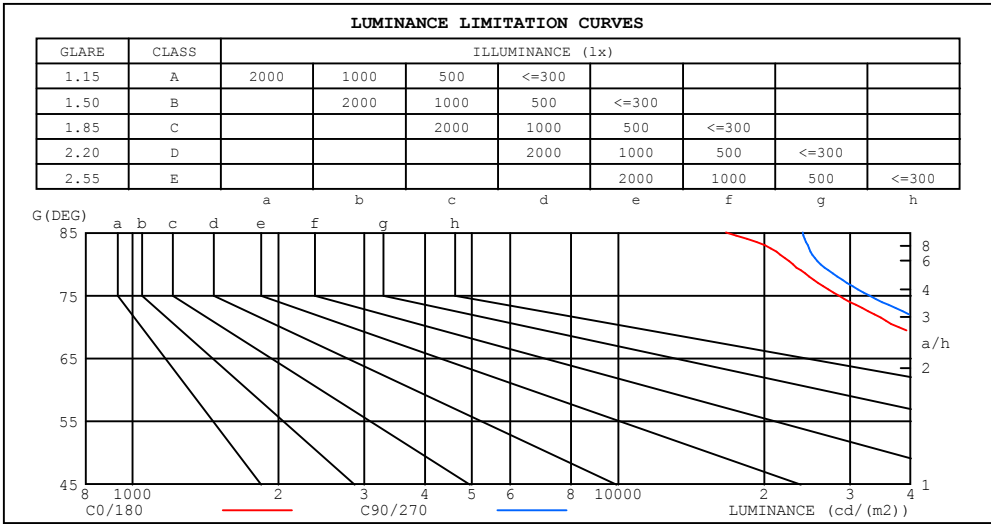
%lamp = 92.1%

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Wangzhilie
 Test Date: 2024-01-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity: 65.0%
 Test Distance: 7.435m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:119.80V I:1.7320A P:207.10W PF:0.9980 Freq:50.00Hz Lamp Flux:42405.3x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	16644	23960
80	22891	26148
75	28476	32949
70	37859	46099
65	53151	64713
60	71680	86236
55	95147	110567
50	121994	137358
45	153952	165339

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Wangzhilie
 Test Date: 2024-01-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity: 65.0%
 Test Distance: 7.435m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:119.80V I:1.7320A P:207.10W PF:0.9980 Freq:50.00Hz Lamp Flux:42405.3x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	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	.244	.139	.044	.237	.135	.043	.224	.128	.041	.212	.122	.039	.201	.116	.038	
2.0	.237	.130	.040	.231	.127	.039	.220	.122	.038	.210	.118	.037	.200	.113	.036	
3.0	.226	.120	.036	.221	.118	.036	.211	.114	.035	.202	.110	.034	.193	.107	.033	
4.0	.213	.111	.033	.209	.109	.032	.200	.106	.032	.192	.103	.031	.185	.100	.031	
5.0	.201	.102	.030	.197	.101	.029	.189	.099	.029	.182	.096	.029	.175	.094	.028	
6.0	.189	.095	.027	.186	.094	.027	.179	.092	.027	.173	.090	.026	.167	.088	.026	
7.0	.179	.088	.025	.175	.087	.025	.169	.086	.025	.164	.084	.024	.158	.082	.024	
8.0	.169	.082	.023	.166	.082	.023	.160	.080	.023	.155	.079	.023	.150	.077	.022	
9.0	.160	.077	.022	.157	.077	.021	.152	.075	.021	.148	.074	.021	.143	.073	.021	
10.0	.151	.073	.020	.149	.072	.020	.145	.071	.020	.140	.070	.020	.136	.069	.020	

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	.176	.157	.140	.150	.135	.120	.103	.093	.083	.059	.054	.048	.019	.017	.016	
2.0	.165	.132	.105	.141	.114	.090	.097	.079	.063	.056	.046	.037	.018	.015	.012	
3.0	.156	.114	.081	.134	.098	.070	.092	.068	.049	.053	.040	.029	.017	.013	.009	
4.0	.148	.100	.064	.127	.087	.055	.087	.060	.039	.051	.035	.023	.016	.012	.008	
5.0	.141	.089	.052	.121	.077	.045	.083	.054	.032	.048	.032	.019	.016	.010	.006	
6.0	.134	.081	.043	.115	.070	.037	.079	.049	.026	.046	.029	.016	.015	.009	.005	
7.0	.128	.074	.036	.110	.064	.031	.076	.045	.022	.044	.026	.013	.014	.009	.004	
8.0	.122	.068	.031	.105	.059	.027	.073	.041	.019	.042	.024	.011	.014	.008	.004	
9.0	.117	.063	.027	.100	.055	.023	.070	.038	.017	.041	.023	.010	.013	.007	.003	
10.0	.111	.059	.024	.096	.051	.021	.067	.036	.015	.039	.021	.009	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Wangzhilie
 Test Date:2024-01-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:7.435m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:119.80V I:1.7320A P:207.10W PF:0.9980 Freq:50.00Hz Lamp Flux:42405.3x1 lm										
NAME:			TYPE:			WEIGHT:				
SPEC.:			DIM.:			SERIAL No.:				
MFR.: EVERFINE			SUR.:			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	28.3	29.6	28.6	29.8	30.0	28.7	30.1	29.0	30.3	30.4
3H	28.6	29.8	28.8	30.0	30.2	29.1	30.3	29.4	30.5	30.7
4H	28.6	29.7	28.9	30.0	30.2	29.1	30.3	29.4	30.5	30.8
6H	28.6	29.7	28.9	29.9	30.2	29.1	30.2	29.4	30.5	30.7
8H	28.6	29.6	28.9	29.9	30.2	29.1	30.1	29.4	30.4	30.7
12H	28.5	29.5	28.9	29.8	30.1	29.1	30.1	29.4	30.4	30.7
4H 2H	28.5	29.6	28.8	29.9	30.1	28.8	30.0	29.1	30.2	30.5
3H	28.8	29.8	29.2	30.1	30.4	29.3	30.3	29.6	30.6	30.8
4H	28.9	29.8	29.3	30.1	30.4	29.4	30.3	29.7	30.6	30.9
6H	29.0	29.7	29.3	30.1	30.4	29.4	30.2	29.8	30.6	30.9
8H	29.0	29.7	29.4	30.0	30.4	29.4	30.2	29.8	30.5	30.9
12H	28.9	29.6	29.4	30.0	30.4	29.4	30.1	29.9	30.5	30.9
8H 4H	28.9	29.6	29.3	30.0	30.4	29.3	30.1	29.7	30.4	30.8
6H	29.0	29.6	29.4	30.0	30.4	29.4	30.0	29.9	30.4	30.9
8H	29.0	29.5	29.5	30.0	30.4	29.5	30.0	29.9	30.4	30.9
12H	29.0	29.5	29.5	29.9	30.4	29.5	30.0	30.0	30.4	30.9
12H 4H	28.9	29.5	29.3	29.9	30.3	29.3	30.0	29.7	30.4	30.8
6H	29.0	29.5	29.4	29.9	30.4	29.4	29.9	29.9	30.4	30.8
8H	29.0	29.5	29.5	29.9	30.4	29.5	29.9	29.9	30.4	30.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.9 / - 1.2					+ 0.8 / - 0.9				
1.5H	+ 0.4 / - 0.6					+ 0.5 / - 0.5				
2.0H	+ 1.8 / - 1.8					+ 1.7 / - 1.8				

CIE Pub.117, 42405 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 13.0)
 Area: 0.1 m2

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Wangzhilie
 Test Date:2024-01-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:7.435m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:119.80V I:1.7320A P:207.10W PF:0.9980 Freq:50.00Hz Lamp Flux:42405.3x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

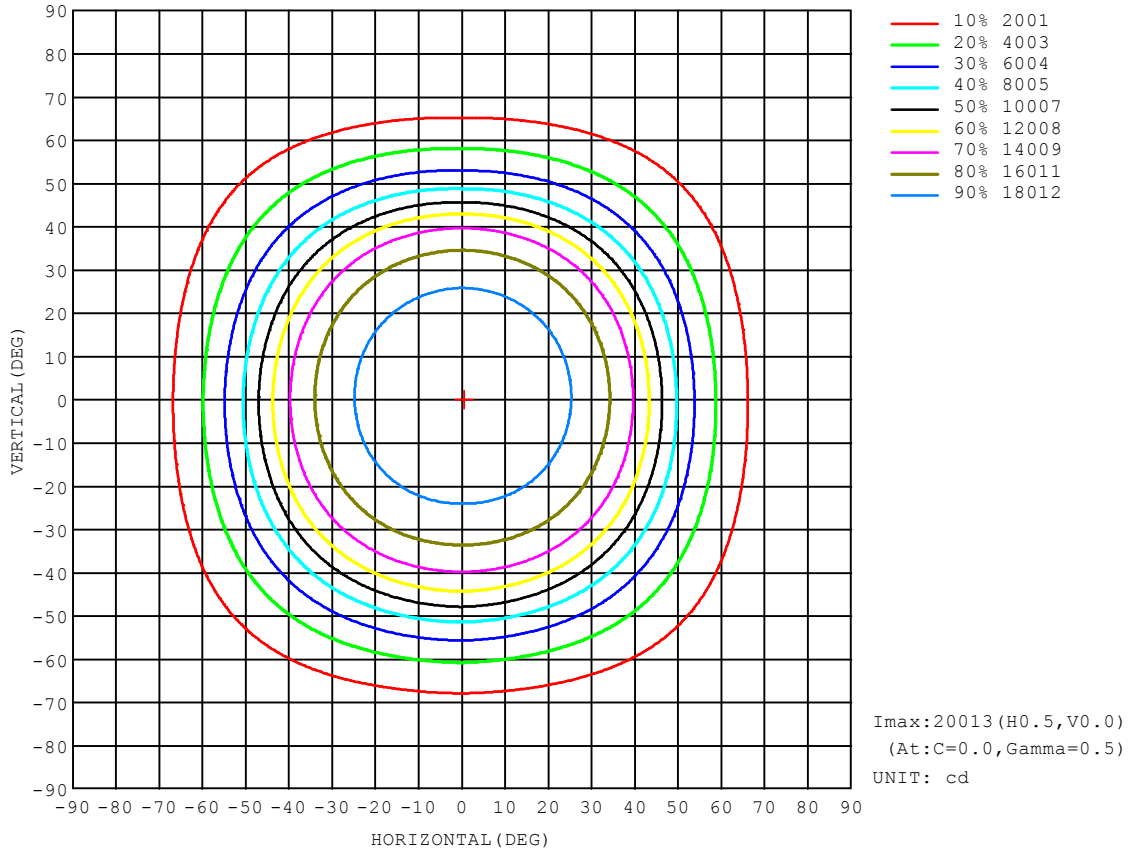
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	66	56	50	65	56	50	64	55	50	44
0.80	76	67	60	75	66	60	74	65	60	54
1.00	84	75	69	83	75	69	81	76	69	63
1.25	91	83	77	90	82	77	87	81	76	70
1.50	95	88	82	94	87	82	91	85	81	74
2.00	101	94	89	99	93	89	96	91	87	80
2.50	104	98	93	102	97	92	99	94	90	83
3.00	107	101	97	105	100	96	101	97	94	86
4.00	110	105	102	107	103	100	103	100	98	89
5.00	111	108	104	109	106	103	105	102	100	91
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Wangzhilie
 Test Date:2024-01-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:7.435m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:119.80V I:1.7320A P:207.10W PF:0.9980 Freq:50.00Hz Lamp Flux:42405.3x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

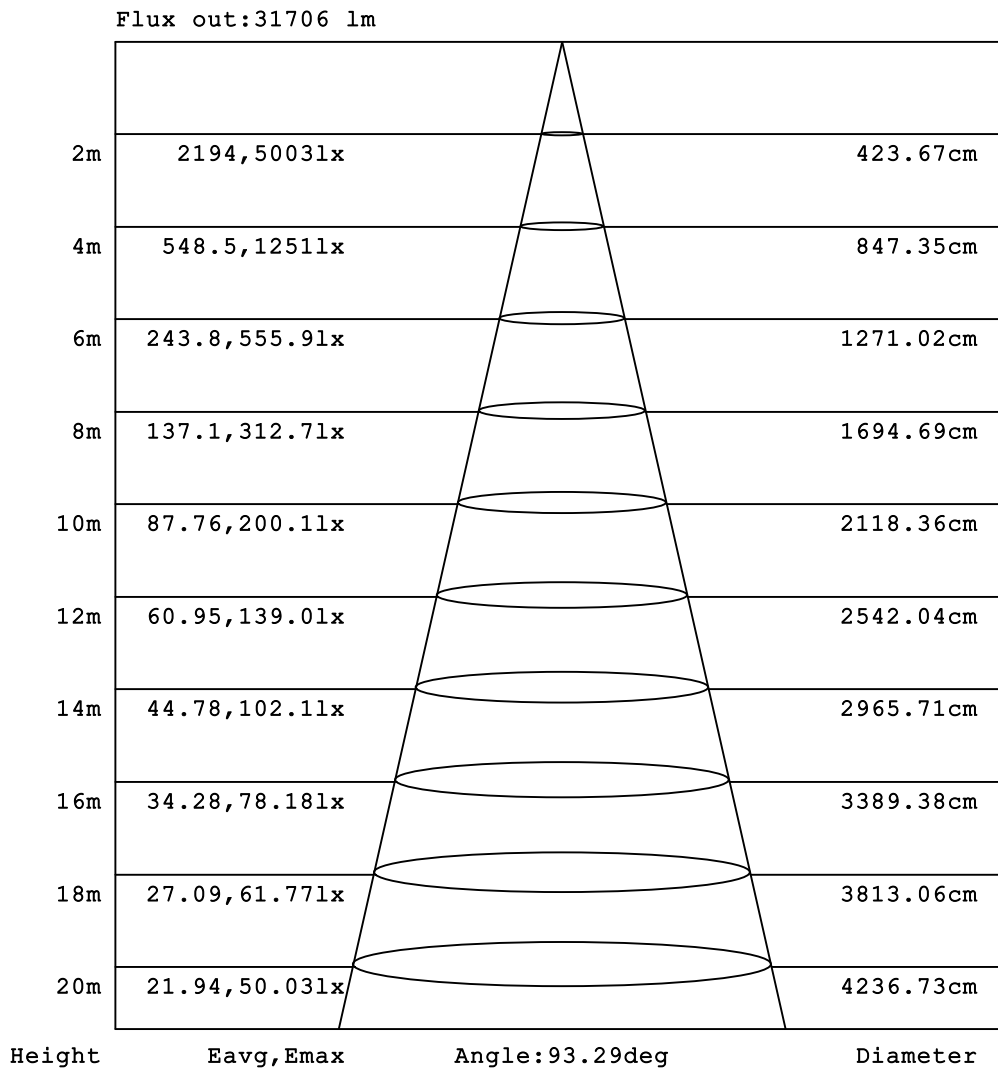


C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Wangzhilie
 Test Date:2024-01-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:7.435m [K=1.0000]
 Remarks:

AAI Figure

Test:U:119.80V I:1.7320A P:207.10W PF:0.9980 Freq:50.00Hz Lamp Flux:42405.3x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



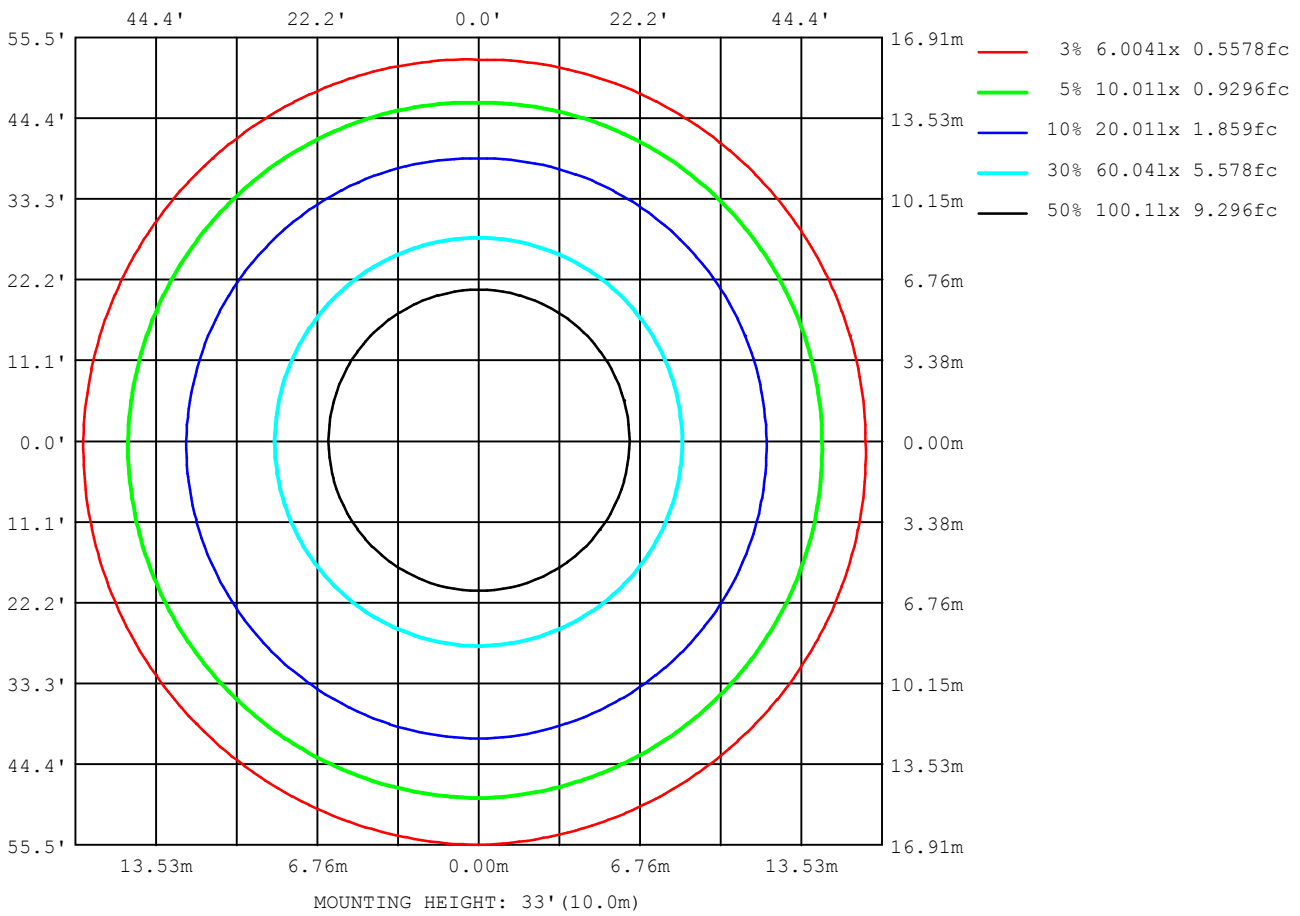
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Wangzhilie
 Test Date:2024-01-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:7.435m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:119.80V I:1.7320A P:207.10W PF:0.9980 Freq:50.00Hz Lamp Flux:42405.3x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Wangzhilie
 Test Date:2024-01-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:7.435m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:119.80V I:1.7320A P:207.10W PF:0.9980 Freq:50.00Hz Lamp Flux:42405.3x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

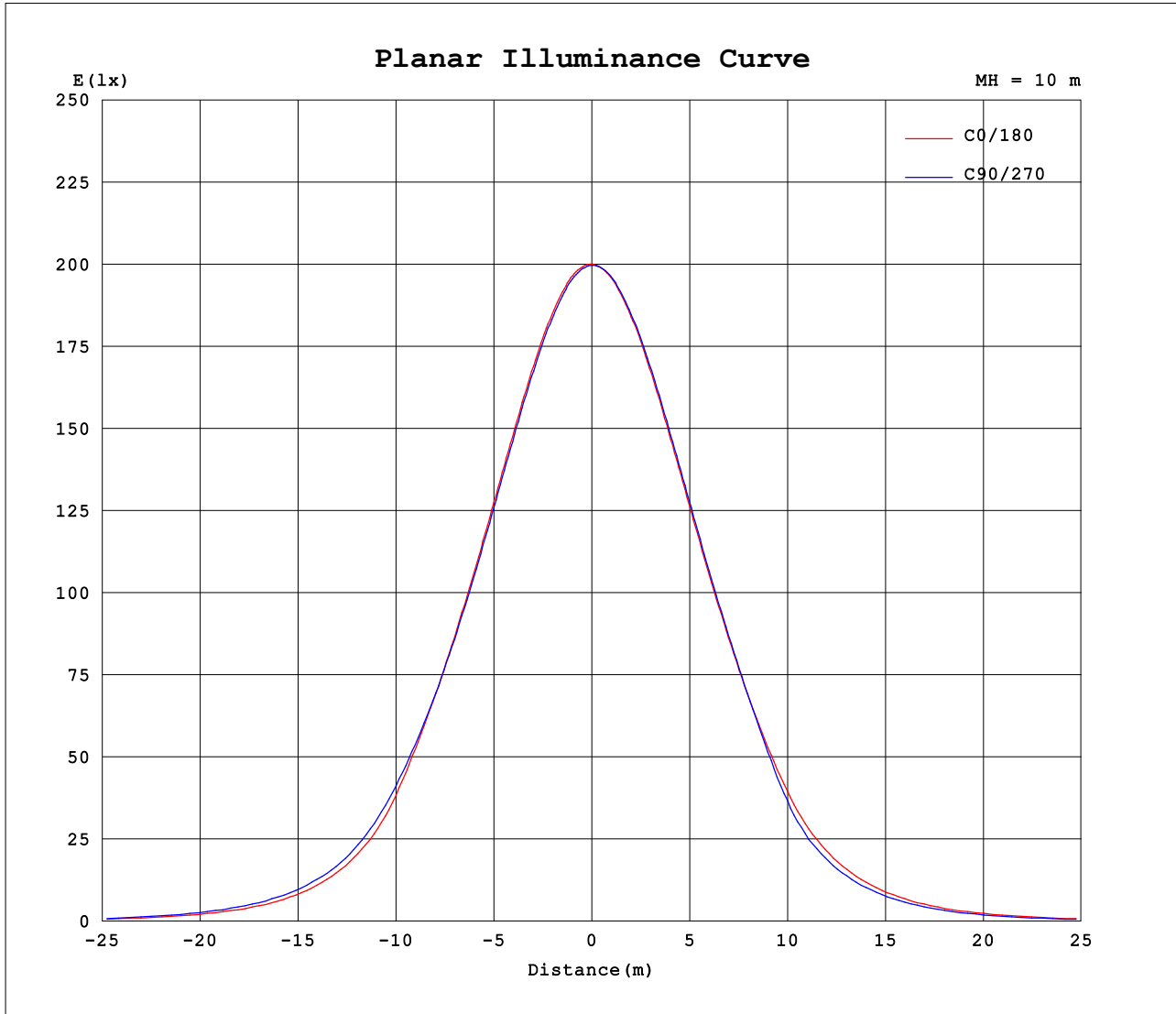
AvgL	cd/m2
L_0~180 (65) av	55307
L_0~180 (75) av	27832
L_0~180 (85) av	8516
L_90~270 (65) av	56281
L_90~270 (75) av	28434
L_90~270 (85) av	16822
L_45 (65) av	56050
L_45 (75) av	28168
L_45 (85) av	13200

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
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 Test Date:2024-01-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:7.435m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Wangzhilie
 Test Date: 2024-01-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity: 65.0%
 Test Distance: 7.435m [K=1.0000]
 Remarks:

