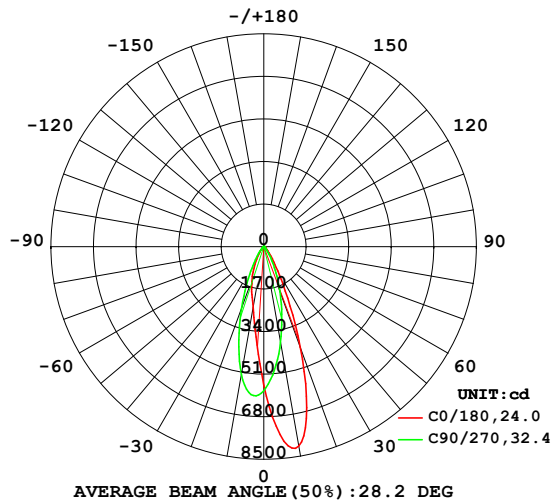


LUMINAIRE PHOTOMETRIC TEST REPORT

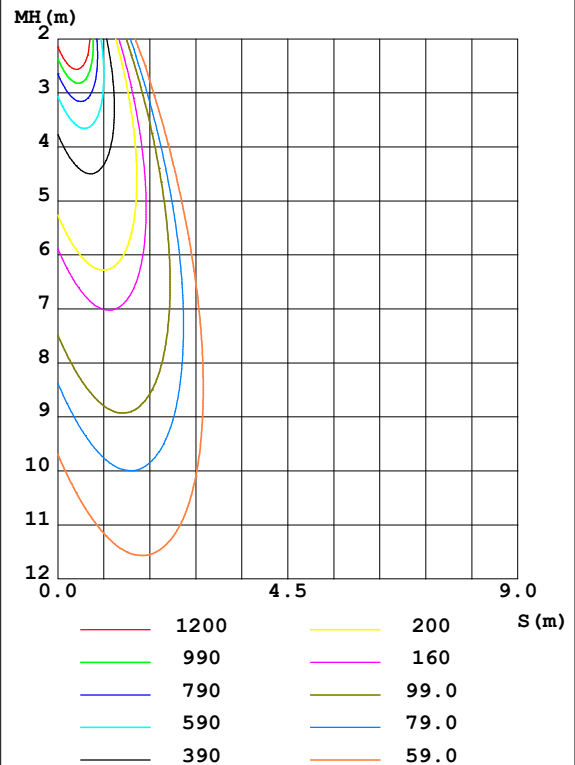
NAME: 4寸筒灯	TYPE:3000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 59.04 lm/W			
MODEL		I _{max} (cd)	8203	S/MH (C0/180)	0.70
NOMINAL POWER (W)	9	LOR (%)	316.2	S/MH (C90/270)	0.61
RATED VOLTAGE (V)	120.0	TOTAL FLUX (lm)	2674.3	η UP, DN (C0-180)	0.6, 168.6
NOMINAL FLUX (lm)	845.766	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.2, 146.8
LAMPS INSIDE	1	η up (%)	0.8	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	120.0	η down (%)	315.4	CIBSE SHR MAX	0.50

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-11-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.353
Humidity: 65.0%
Test Distance: 7.540m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

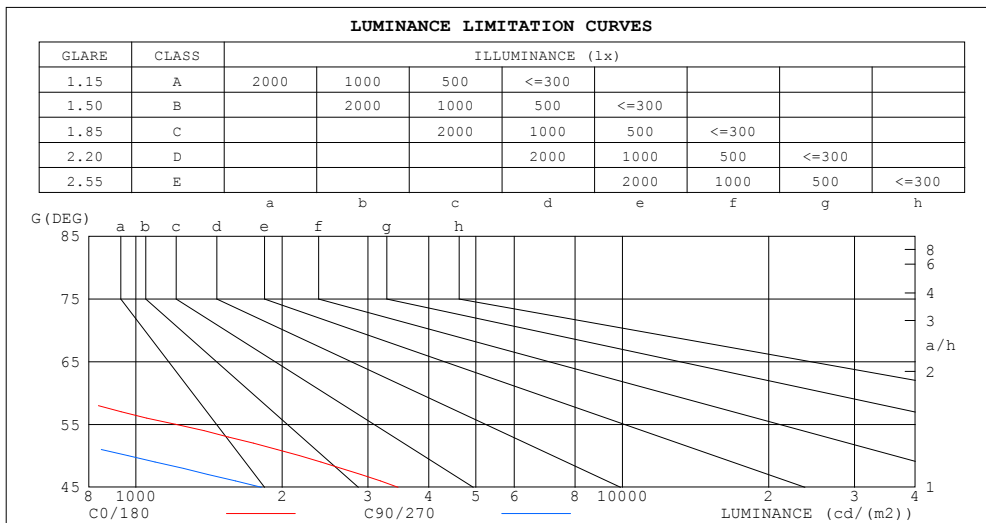
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	8091	5686	3874	3187	2488	2815	5179	7847	0- 10	511.4	511.4	19.1, 60.5
20	4286	2863	1883	1698	1376	1539	2593	3613	10- 20	1020	1531	57.3, 181
30	1135	908.8	685.1	746.0	584.7	640.2	887.7	915.8	20- 30	680.7	2212	82.7, 262
40	340.3	278.1	205.7	243.4	181.4	202.7	261.9	288.3	30- 40	292.2	2504	93.6, 296
50	117.2	90.77	52.03	73.27	47.99	64.68	70.18	100.6	40- 50	112.9	2617	97.9, 309
60	29.76	25.67	13.78	19.24	14.27	17.72	19.25	26.79	50- 60	38.46	2656	99.3, 314
70	10.26	9.440	0.1294	2.976	0.0556	2.118	0.8795	8.908	60- 70	11.31	2667	99.7, 315
80	0.0267	0.0241	0.0218	0.0120	0	0.0001	0.0266	0.0170	70- 80	0.7629	2668	99.8, 315
90	0	0	0	0	0	0	0	0	80- 90	0.0031	2668	99.8, 315
100	0	0	0	0.0000	0	0	0	0	90-100	0.0000	2668	99.8, 315
110	0.0169	0.0412	0.0629	0.0679	0	0	0	0	100-110	0.0085	2668	99.8, 315
120	0.1282	0.1964	0.3168	0.2909	0.0340	0.0242	0.0146	0.0217	110-120	0.0638	2668	99.8, 315
130	0.4958	0.6861	1.113	0.9263	0.1966	0.1741	0.1554	0.1524	120-130	0.2451	2668	99.8, 315
140	1.422	1.794	2.719	3.067	0.7253	0.5831	0.5019	0.4235	130-140	0.6736	2669	99.8, 316
150	3.004	4.011	5.840	7.107	1.973	1.520	1.219	1.034	140-150	1.391	2670	99.8, 316
160	5.987	7.765	8.131	9.159	3.035	2.520	2.319	2.157	150-160	1.917	2672	99.9, 316
170	10.40	9.681	8.056	7.128	4.333	3.997	3.913	3.736	160-170	1.639	2674	100, 316
180	8.399	7.035	6.100	5.185	8.411	7.023	6.086	5.301	170-180	0.6270	2674	100, 316
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-11-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.540m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

NAME: 4寸筒灯	TYPE:3000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	0	0
80	2	1
75	3	3
70	357	5
65	517	141
60	709	328
55	1206	536
50	2170	964
45	3462	1812

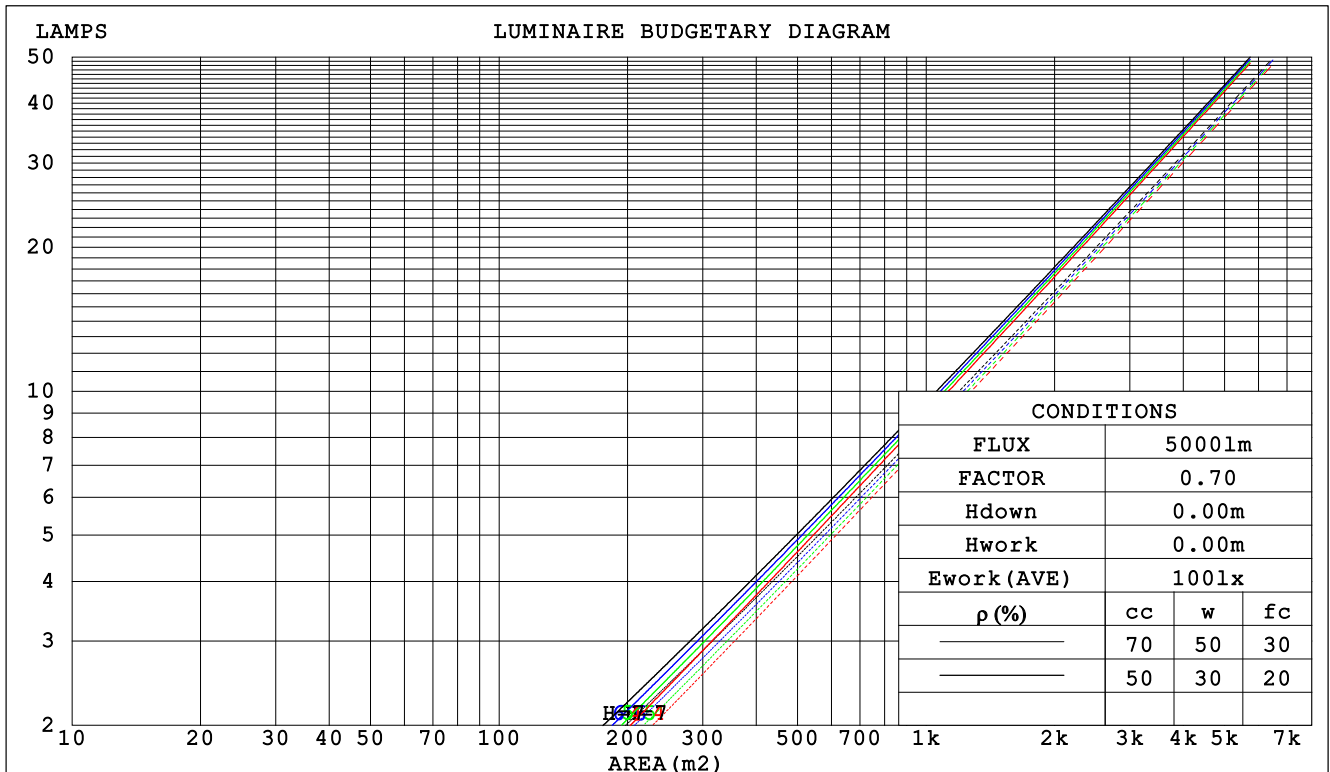
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-11-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.540m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: 4寸筒灯	TYPE:3000K	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	Coefficients of Utilization(CU)															
	RCR:Room Cavity Ratio															
0.0	3.76	3.76	3.76	3.67	3.67	3.67	3.51	3.51	3.51	3.36	3.36	3.36	3.22	3.22	3.22	3.15
1.0	3.53	3.46	3.39	3.46	3.40	3.34	3.33	3.28	3.23	3.21	3.17	3.14	3.10	3.07	3.05	2.99
2.0	3.31	3.20	3.10	3.26	3.16	3.07	3.16	3.07	3.00	3.06	3.00	2.94	2.98	2.92	2.88	2.83
3.0	3.12	2.99	2.87	3.08	2.95	2.85	3.00	2.89	2.80	2.92	2.84	2.76	2.85	2.78	2.72	2.67
4.0	2.95	2.80	2.68	2.92	2.78	2.67	2.85	2.73	2.63	2.79	2.69	2.60	2.73	2.65	2.57	2.53
5.0	2.80	2.64	2.52	2.77	2.62	2.51	2.72	2.59	2.49	2.67	2.55	2.46	2.62	2.52	2.44	2.40
6.0	2.66	2.50	2.38	2.64	2.48	2.37	2.59	2.46	2.35	2.55	2.43	2.34	2.51	2.40	2.32	2.28
7.0	2.54	2.37	2.25	2.52	2.36	2.25	2.48	2.34	2.24	2.44	2.32	2.22	2.41	2.30	2.21	2.17
8.0	2.42	2.26	2.14	2.40	2.25	2.14	2.37	2.23	2.13	2.34	2.21	2.12	2.31	2.20	2.11	2.07
9.0	2.32	2.15	2.04	2.30	2.15	2.04	2.27	2.13	2.03	2.25	2.12	2.03	2.22	2.11	2.02	1.98
10.0	2.22	2.06	1.95	2.21	2.05	1.95	2.18	2.04	1.95	2.16	2.03	1.94	2.14	2.02	1.94	1.90



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-11-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.540m [K=1.0000]
Remarks:

WEC AND CCEC

NAME: 4寸筒灯	TYPE:3000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

pcc	80%	70%	50%	30%	10%	0
pw	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
pfc	20%	20%	20%	20%	20%	0
RCR	RCR:Room Cavity Ratio Wall Exitance Coefficients(WEC)					
0.0						
1.0	.510 .290 .092	.489 .279 .089	.449 .258 .082	.412 .238 .076	.378 .219 .071	
2.0	.484 .265 .081	.466 .257 .079	.433 .241 .075	.402 .225 .071	.373 .211 .067	
3.0	.458 .244 .073	.443 .237 .071	.415 .225 .068	.389 .213 .065	.364 .202 .062	
4.0	.434 .226 .066	.421 .220 .065	.397 .211 .063	.374 .201 .061	.354 .192 .059	
5.0	.412 .210 .061	.401 .206 .060	.380 .198 .058	.361 .190 .057	.342 .183 .055	
6.0	.392 .197 .056	.383 .193 .056	.364 .187 .054	.347 .180 .053	.331 .174 .052	
7.0	.374 .185 .052	.366 .182 .052	.350 .177 .051	.334 .171 .050	.320 .166 .049	
8.0	.358 .175 .049	.350 .172 .049	.336 .168 .048	.322 .163 .047	.310 .159 .046	
9.0	.343 .166 .046	.336 .164 .046	.323 .160 .045	.311 .156 .045	.300 .152 .044	
10.0	.329 .158 .044	.323 .156 .043	.311 .152 .043	.300 .149 .042	.290 .146 .042	

pcc	80%	70%	50%	30%	10%	0
pw	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
pfc	20%	20%	20%	20%	20%	0
RCR	RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients(CCEC)					
0.0	.608 .608 .608	.520 .520 .520	.355 .355 .355	.204 .204 .204	.065 .065 .065	
1.0	.544 .504 .468	.465 .432 .403	.318 .297 .279	.183 .172 .162	.059 .055 .052	
2.0	.492 .425 .369	.421 .366 .319	.289 .253 .222	.167 .147 .130	.053 .048 .042	
3.0	.450 .365 .297	.386 .315 .257	.265 .219 .181	.153 .128 .106	.049 .041 .035	
4.0	.415 .317 .243	.356 .274 .211	.245 .191 .149	.142 .112 .088	.046 .036 .029	
5.0	.385 .280 .202	.331 .242 .176	.228 .169 .124	.132 .099 .074	.043 .032 .024	
6.0	.360 .250 .171	.309 .216 .149	.213 .151 .105	.124 .089 .062	.040 .029 .021	
7.0	.338 .225 .146	.291 .195 .127	.201 .137 .090	.117 .081 .054	.038 .026 .018	
8.0	.319 .205 .126	.275 .178 .110	.190 .125 .078	.111 .074 .046	.036 .024 .015	
9.0	.303 .188 .110	.261 .163 .096	.181 .115 .068	.105 .068 .041	.034 .022 .014	
10.0	.288 .174 .098	.248 .151 .085	.172 .106 .060	.100 .063 .036	.033 .021 .012	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-11-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.540m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

NAME: 4寸筒灯					TYPE:3000K					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					10.7	11.5	10.9	11.7	11.8	8.6	9.4	8.8	9.6	9.7
3H					10.6	11.4	10.9	11.6	11.8	8.4	9.2	8.7	9.4	9.6
4H					10.5	11.2	10.8	11.5	11.7	8.4	9.1	8.6	9.3	9.5
6H					10.4	11.1	10.7	11.3	11.6	8.3	8.9	8.6	9.2	9.4
8H					10.4	11.0	10.7	11.3	11.5	8.2	8.9	8.5	9.1	9.4
12H					10.3	11.0	10.7	11.2	11.5	8.2	8.8	8.5	9.1	9.3
4H 2H					10.5	11.2	10.8	11.4	11.7	8.5	9.2	8.7	9.4	9.6
3H					10.4	11.0	10.7	11.3	11.6	8.3	8.9	8.6	9.2	9.5
4H					10.3	10.9	10.7	11.2	11.5	8.2	8.8	8.6	9.1	9.4
6H					10.2	10.7	10.6	11.1	11.4	8.1	8.6	8.5	9.0	9.3
8H					10.2	10.6	10.6	11.0	11.4	8.1	8.5	8.5	8.9	9.3
12H					10.1	10.5	10.5	10.9	11.3	8.0	8.4	8.4	8.8	9.2
8H 4H					10.2	10.6	10.6	11.0	11.4	8.1	8.5	8.5	8.9	9.3
6H					10.1	10.4	10.5	10.8	11.3	8.0	8.4	8.4	8.8	9.2
8H					10.0	10.3	10.5	10.8	11.2	7.9	8.3	8.4	8.7	9.1
12H					9.9	10.2	10.4	10.7	11.2	7.9	8.1	8.3	8.6	9.1
12H 4H					10.1	10.5	10.5	10.9	11.3	8.0	8.5	8.4	8.8	9.2
6H					10.0	10.3	10.5	10.8	11.2	7.9	8.3	8.4	8.7	9.1
8H					9.9	10.2	10.4	10.7	11.2	7.9	8.1	8.3	8.6	9.1
Variations with the observer position at spacings:														
S = 1.0H					+ 2.9 / - 5.7					+ 2.4 / - 7.5				
1.5H					+ 4.1 / - 4.7					+ 3.4 / - 5.4				
2.0H					+ 5.3 / - 6.0					+ 4.3 / - 5.6				

CIE Pub.117 Corrected 845.8 lm Total Lamp Luminous Flux. (8log(F/F0) = -0.6)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-11-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.353
 Humidity:65.0%
 Test Distance:7.540m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

NAME: 4寸筒灯	TYPE:3000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

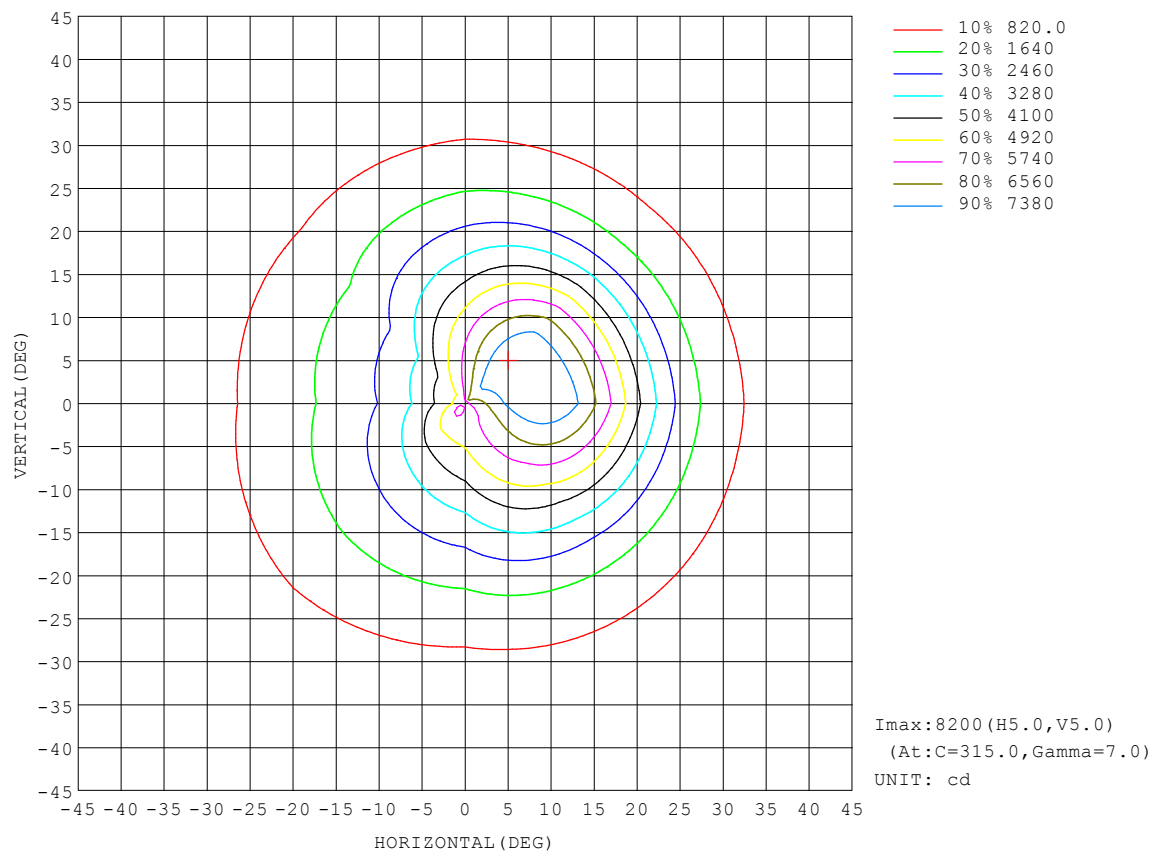
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	277	257	245	275	256	245	273	255	244	233
0.80	300	282	270	298	281	270	294	279	269	257
1.00	314	297	286	312	295	285	307	295	283	271
1.25	327	311	300	324	309	299	317	305	296	283
1.50	335	321	310	332	318	309	324	314	305	291
2.00	344	331	321	339	327	318	331	321	314	297
2.50	349	337	328	344	333	325	334	326	319	300
3.00	354	343	335	348	339	331	337	330	324	304
4.00	360	351	345	353	346	340	342	336	332	309
5.00	364	357	351	357	351	346	344	340	336	312
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-11-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.353
Humidity: 65.0%
Test Distance: 7.540m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: 4寸筒灯	TYPE:3000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

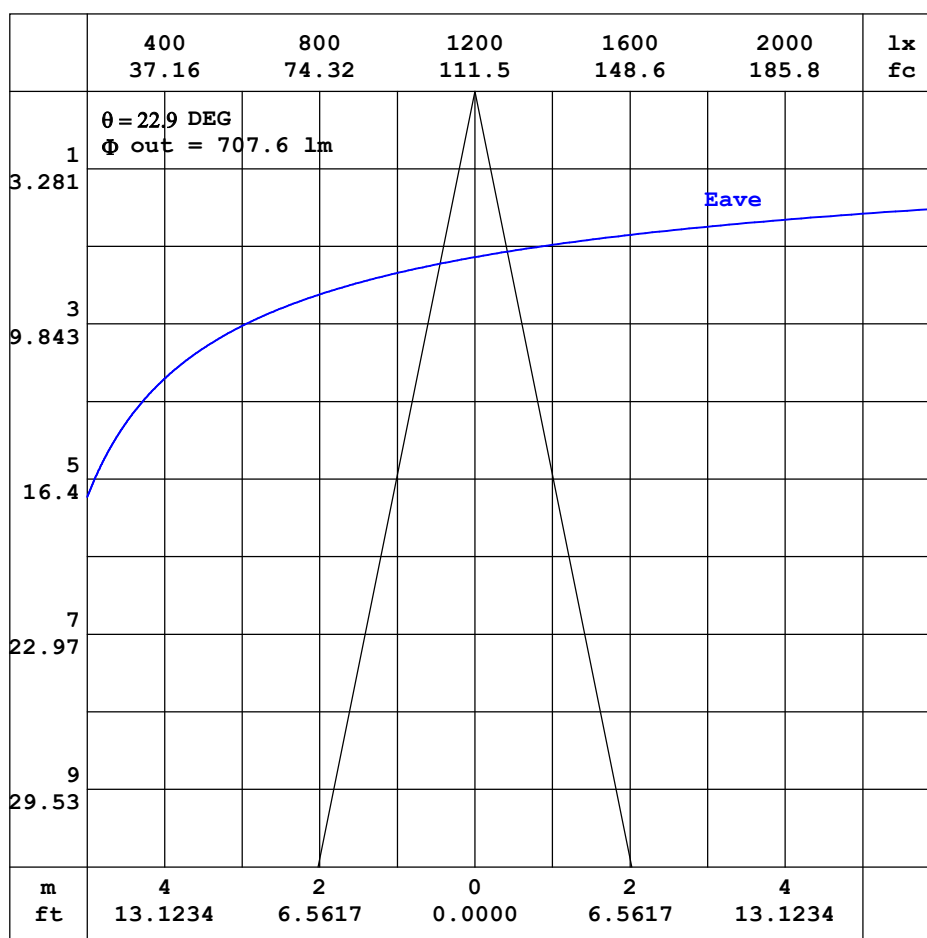


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-11-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.540m [K=1.0000]
Remarks:

AAI CURVES

NAME: 4寸筒灯	TYPE:3000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



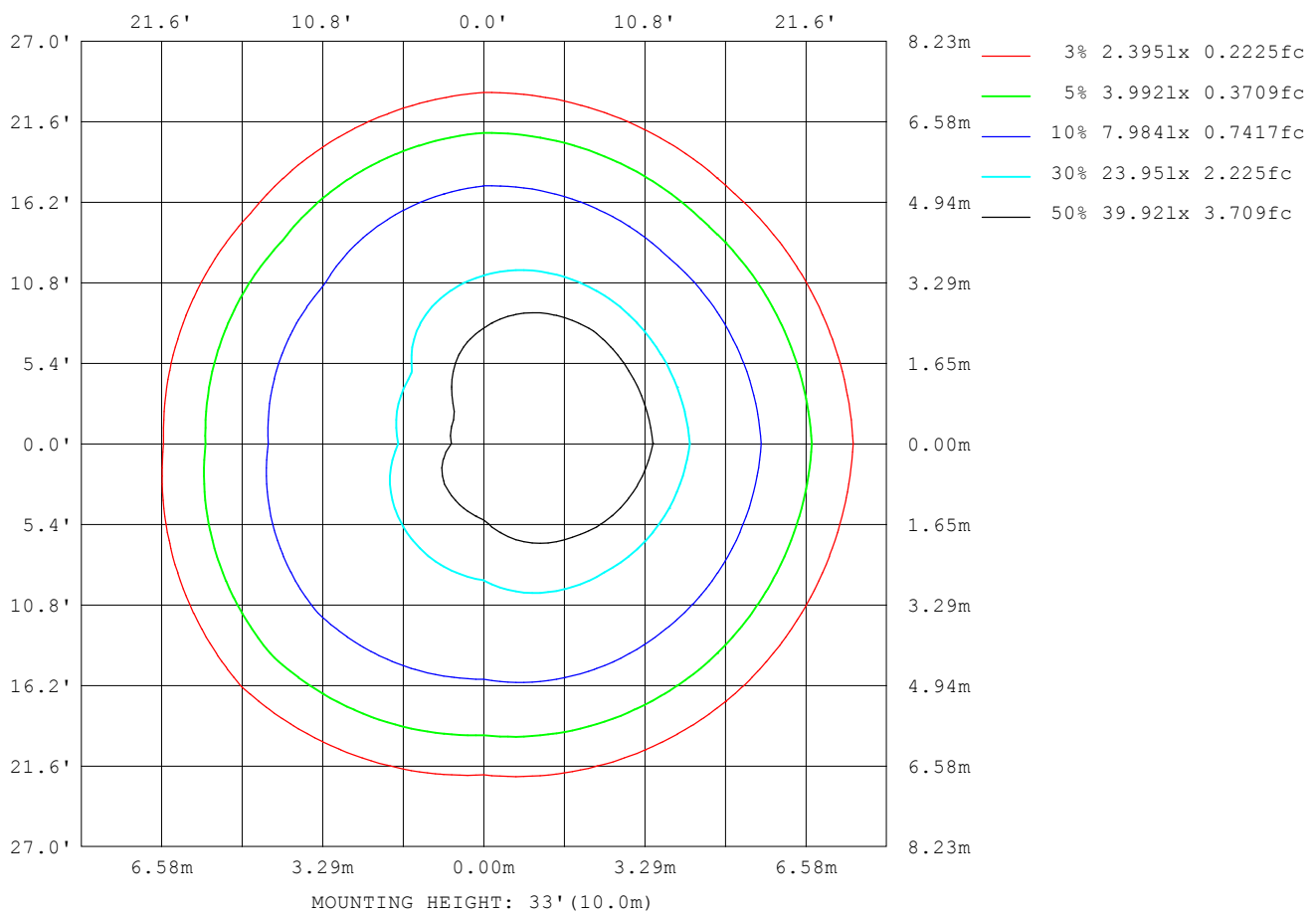
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-11-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.540m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

NAME: 4寸筒灯	TYPE:3000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-11-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.353
Humidity: 65.0%
Test Distance: 7.540m [K=1.0000]
Remarks:

LED Avg.L Report

NAME: 4寸筒灯	TYPE:3000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

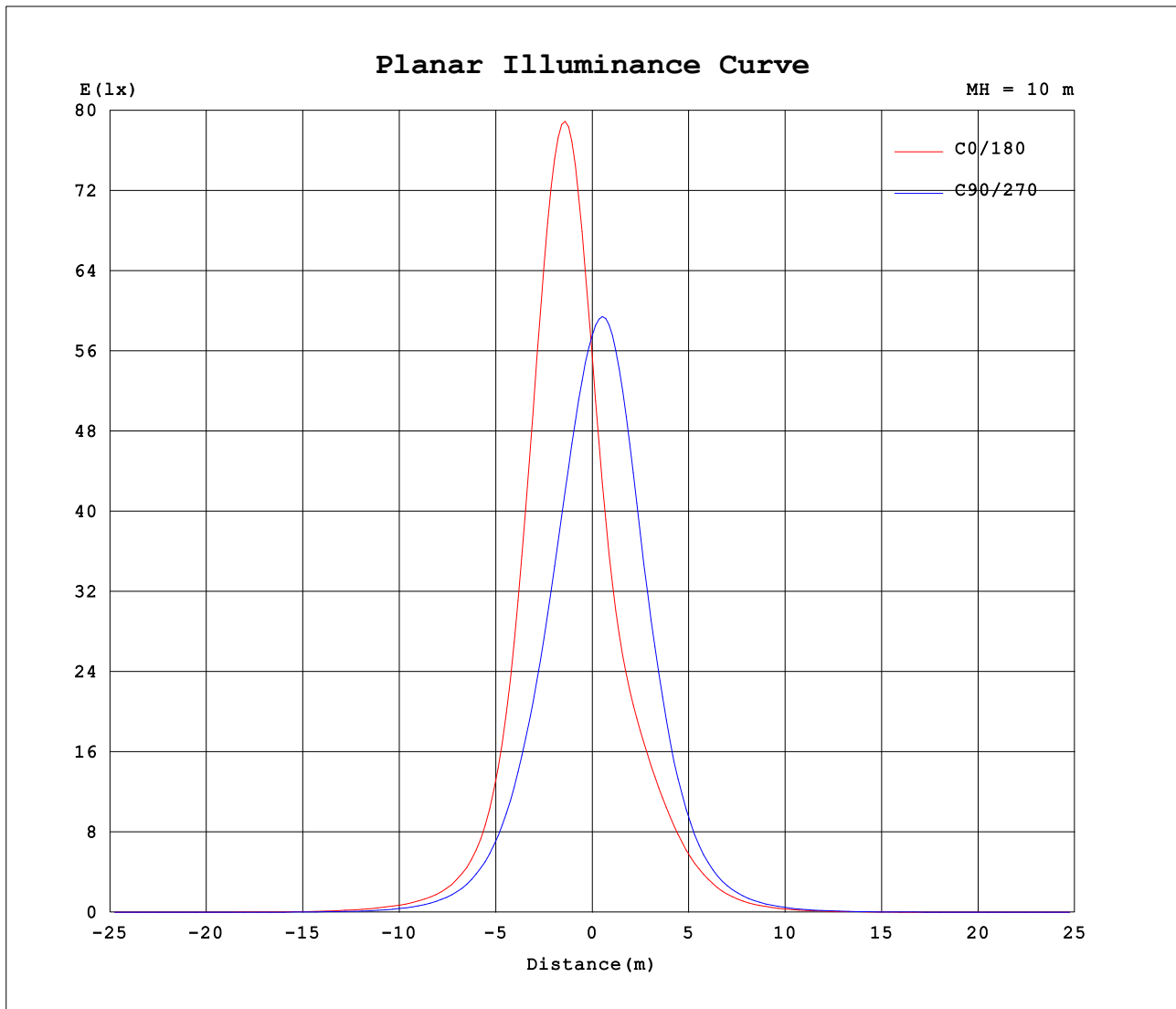
AvgL	cd/m2
L_0~180 (65) av	315
L_0~180 (75) av	2
L_0~180 (85) av	0
L_90~270 (65) av	215
L_90~270 (75) av	3
L_90~270 (85) av	0
L_45 (65) av	351
L_45 (75) av	3
L_45 (85) av	0

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-11-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.540m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-11-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.353
Humidity: 65.0%
Test Distance: 7.540m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 4寸筒灯	TYPE:3000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315										
0	5543	5270	5758	6540	5543	5270	5758	6540										
5	7538	6070	4954	4571	3619	3940	5928	8057										
10	8091	5686	3874	3187	2488	2815	5179	7847										
15	6660	4380	2798	2329	1878	2100	3856	6007										
20	4286	2863	1883	1698	1376	1539	2593	3613										
25	2273	1662	1169	1172	937	1038	1580	1829										
30	1135	909	685	746	585	640	888	916										
35	606	499	378	437	330	365	483	498										
40	340	278	206	243	181	203	262	288										
45	206	159	108	133	94.2	114	142	171										
50	117	90.8	52.0	73.3	48.0	64.7	70.2	101										
55	58.1	51.2	25.8	38.4	25.7	34.9	35.4	55.2										
60	29.8	25.7	13.8	19.2	14.3	17.7	19.3	26.8										
65	18.3	14.4	5.02	10.2	4.00	9.50	10.2	15.7										
70	10.3	9.44	0.13	2.98	0.06	2.12	0.88	8.91										
75	0.07	0.14	0.07	0.05	0.01	0.03	0.07	0.05										
80	0.03	0.02	0.02	0.01	0.00	0.00	0.03	0.02										
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
105	0.00	0.01	0.01	0.03	0.00	0.00	0.00	0.00										
110	0.02	0.04	0.06	0.07	0.00	0.00	0.00	0.00										
115	0.07	0.10	0.15	0.16	0.00	0.00	0.00	0.00										
120	0.13	0.20	0.32	0.29	0.03	0.02	0.01	0.02										
125	0.26	0.38	0.62	0.51	0.09	0.07	0.08	0.07										
130	0.50	0.69	1.11	0.93	0.20	0.17	0.16	0.15										
135	0.87	1.15	1.78	1.72	0.39	0.33	0.30	0.27										
140	1.42	1.79	2.72	3.07	0.73	0.58	0.50	0.42										
145	2.13	2.71	4.12	4.99	1.29	1.04	0.81	0.68										
150	3.00	4.01	5.84	7.11	1.97	1.52	1.22	1.03										
155	4.15	5.80	7.23	8.70	2.58	2.03	1.70	1.53										
160	5.99	7.77	8.13	9.16	3.04	2.52	2.32	2.16										
165	8.48	9.29	8.42	8.36	3.49	3.11	3.06	2.94										
170	10.4	9.68	8.06	7.13	4.33	4.00	3.91	3.74										
175	10.3	8.78	7.20	6.07	6.01	5.33	4.93	4.51										
180	8.40	7.04	6.10	5.19	8.41	7.02	6.09	5.30										

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-11-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.540m [K=1.0000]
Remarks: