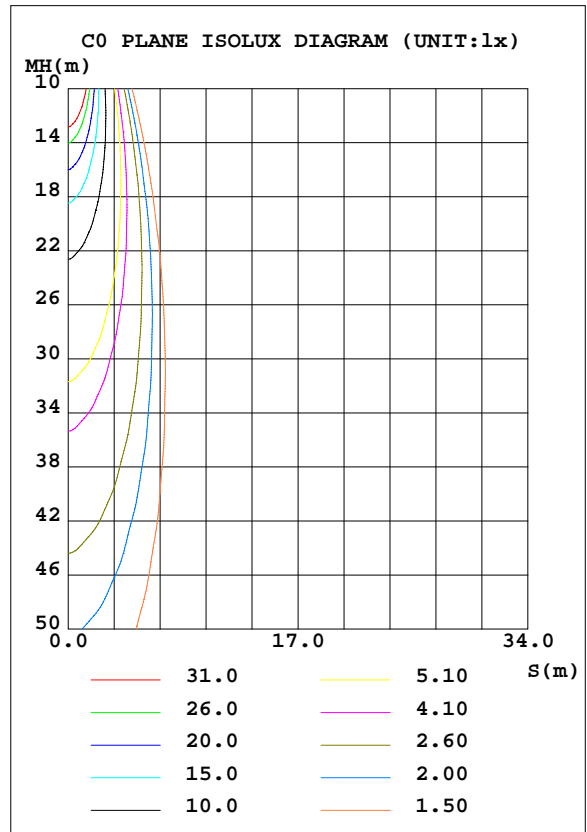
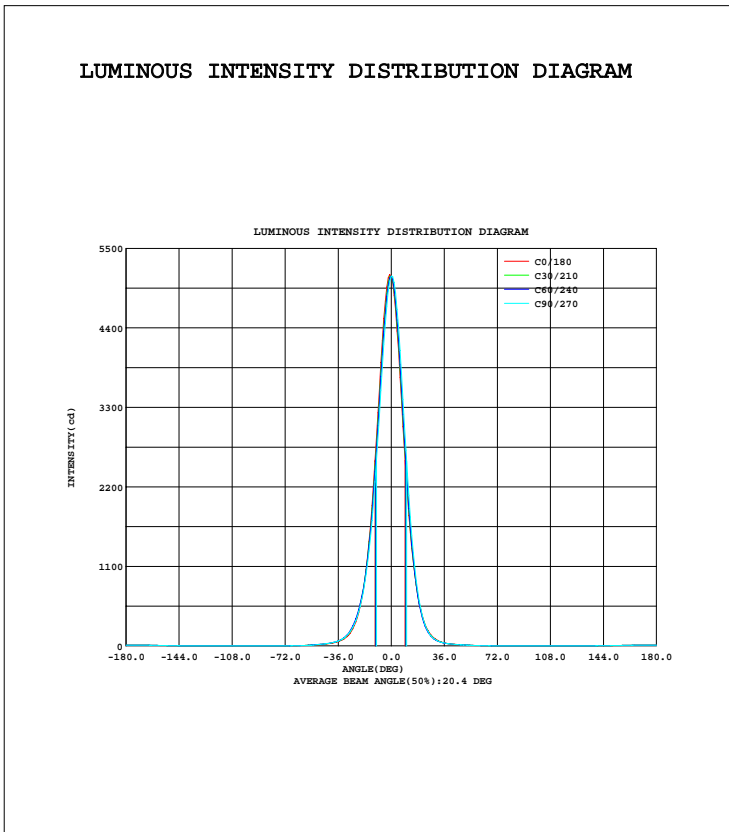


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:47.72V I:0.2138A P:10.20W PF:1.000 Freq:60.00Hz Lamp Flux:930.496x1 lm		
NAME: 折叠灯	TYPE:	WEIGHT:
SPEC.:4092K-Ra91	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 91.21 lm/W			
MODEL	Z22Y-8T-4000K-10W	I _{max} (cd)	5138	S/MH(C0/180)	0.37
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	0.34
RATED VOLTAGE(V)	48	TOTAL FLUX(lm)	930.50	η UP, DN(C0-180)	0.8,46.9
NOMINAL FLUX(lm)	930.496	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.7,51.6
LAMPS INSIDE	1	η up(%)	1.5	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	48	η down(%)	98.5	CIBSE SHR MAX	1.00



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:sunny
 Test Date:2022-06-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.800m [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	2376	2491	2708	2788	2863	2730	2555	2457	0- 10	353.5	353.5	38,38
20	503.3	490.7	524.4	572.1	647.0	669.9	637.1	596.2	10- 20	367.5	721.0	77.5,77.5
30	95.71	85.68	86.65	96.05	127.4	147.0	145.1	130.3	20- 30	124.8	845.9	90.9,90.9
40	28.65	27.12	27.38	28.91	39.14	43.77	44.55	39.78	30- 40	39.35	885.2	95.1,95.1
50	12.76	12.16	12.12	12.79	16.24	18.25	18.47	16.69	40- 50	17.84	903.1	97.1,97.1
60	4.822	4.490	4.384	4.776	6.035	5.395	4.763	4.779	50- 60	8.045	911.1	97.9,97.9
70	1.611	1.658	1.612	1.753	2.160	1.856	1.836	1.672	60- 70	3.041	914.2	98.2,98.2
80	1.166	1.237	1.096	1.150	1.271	1.206	1.199	1.180	70- 80	1.374	915.5	98.4,98.4
90	1.166	1.168	1.073	1.109	1.176	1.153	1.119	1.134	80- 90	1.268	916.8	98.5,98.5
100	1.176	1.149	1.079	1.089	1.121	1.105	1.178	1.110	90-100	1.224	918.0	98.7,98.7
110	1.172	1.155	1.106	1.107	1.150	1.152	1.192	1.137	100-110	1.197	919.2	98.8,98.8
120	1.201	1.195	1.148	1.177	1.166	1.192	1.240	1.174	110-120	1.153	920.4	98.9,98.9
130	1.389	1.395	1.410	1.375	1.297	1.285	1.323	1.274	120-130	1.118	921.5	99,99
140	2.165	2.205	2.277	2.144	1.725	1.677	1.671	1.699	130-140	1.210	922.7	99.2,99.2
150	4.327	4.437	4.429	4.269	3.492	3.484	3.622	3.595	140-150	1.722	924.4	99.3,99.3
160	7.681	7.861	7.907	7.651	7.195	7.373	7.632	7.414	150-160	2.590	927.0	99.6,99.6
170	9.687	9.886	10.05	9.781	10.01	10.12	10.43	9.966	160-170	2.516	929.5	99.9,99.9
180	10.21	10.21	10.39	9.977	10.20	10.19	10.37	10.01	170-180	0.9652	930.5	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 895.62 lm

%lum = 96.3%
 %lamp = 96.3%

Conical surface Flux(120deg): 911.12 lm

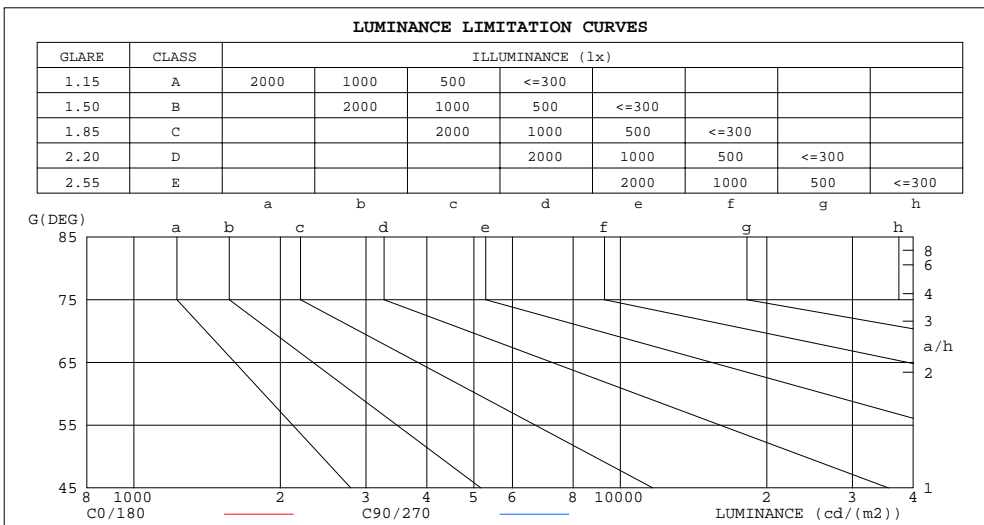
%lum = 97.9%
 %lamp = 97.9%

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:sunny
 Test Date:2022-06-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.800m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:47.72V I:0.2138A P:10.20W PF:1.000 Freq:60.00Hz Lamp Flux:930.496x1 lm		
NAME: 折叠灯	TYPE:	WEIGHT:
SPEC.:4092K-Ra91	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	376	355
80	192	180
75	133	123
70	135	134
65	199	177
60	276	250
55	375	366
50	568	537
45	763	721

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:sunny
 Test Date:2022-06-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.800m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:47.72V I:0.2138A P:10.20W PF:1.000 Freq:60.00Hz Lamp Flux:930.496x1 lm		
NAME: 折叠灯	TYPE:	WEIGHT:
SPEC.:4092K-Ra91	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.142	.081	.026	.135	.077	.024	.121	.070	.022	.109	.063	.020	.098	.057	.018	
2.0	.131	.072	.022	.125	.069	.021	.114	.063	.020	.104	.058	.018	.095	.053	.017	
3.0	.122	.065	.019	.117	.063	.019	.108	.058	.018	.099	.054	.017	.091	.050	.016	
4.0	.114	.059	.017	.110	.057	.017	.102	.054	.016	.095	.051	.015	.088	.048	.015	
5.0	.107	.055	.016	.103	.053	.015	.097	.050	.015	.090	.048	.014	.084	.045	.014	
6.0	.101	.051	.015	.098	.049	.014	.092	.047	.014	.087	.045	.013	.081	.043	.013	
7.0	.096	.047	.013	.093	.046	.013	.088	.044	.013	.083	.043	.012	.078	.041	.012	
8.0	.091	.044	.013	.089	.044	.012	.084	.042	.012	.080	.040	.012	.076	.039	.011	
9.0	.087	.042	.012	.085	.041	.012	.081	.040	.011	.077	.038	.011	.073	.037	.011	
10.0	.083	.040	.011	.081	.039	.011	.077	.038	.011	.074	.037	.010	.071	.036	.010	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.202	.202	.202	.172	.172	.172	.118	.118	.118	.068	.068	.068	.022	.022	.022	
1.0	.180	.169	.159	.154	.145	.137	.105	.100	.095	.061	.058	.055	.019	.019	.018	
2.0	.162	.144	.129	.139	.124	.111	.095	.086	.078	.055	.050	.046	.018	.016	.015	
3.0	.147	.125	.107	.126	.108	.093	.087	.075	.065	.050	.044	.038	.016	.014	.013	
4.0	.135	.109	.090	.116	.095	.078	.080	.066	.055	.046	.039	.033	.015	.013	.011	
5.0	.125	.097	.077	.107	.084	.067	.074	.059	.047	.043	.035	.028	.014	.011	.009	
6.0	.116	.087	.067	.099	.076	.058	.069	.053	.041	.040	.031	.025	.013	.010	.008	
7.0	.108	.079	.059	.093	.069	.051	.064	.048	.036	.037	.028	.022	.012	.009	.007	
8.0	.102	.072	.052	.087	.063	.046	.060	.044	.032	.035	.026	.019	.011	.009	.006	
9.0	.096	.067	.047	.083	.058	.041	.057	.041	.029	.033	.024	.017	.011	.008	.006	
10.0	.091	.062	.043	.078	.054	.037	.054	.038	.027	.032	.022	.016	.010	.007	.005	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:sunny
 Test Date:2022-06-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.800m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:47.72V I:0.2138A P:10.20W PF:1.000 Freq:60.00Hz Lamp Flux:930.496x1 lm										
NAME: 折叠灯				TYPE:				WEIGHT:		
SPEC.:4092K-Ra91				DIM.:				SERIAL No.:		
MFR.:				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	1.6	2.2	1.8	2.4	2.6	1.3	2.0	1.6	2.2	2.3
3H	1.6	2.3	1.9	2.5	2.7	1.4	2.0	1.7	2.2	2.4
4H	1.7	2.2	1.9	2.5	2.7	1.4	2.0	1.7	2.2	2.5
6H	1.7	2.3	2.1	2.6	2.8	1.5	2.1	1.8	2.3	2.6
8H	1.9	2.4	2.2	2.7	2.9	1.6	2.1	1.9	2.4	2.7
12H	2.0	2.5	2.4	2.8	3.1	1.8	2.3	2.1	2.6	2.9
4H 2H	1.5	2.1	1.8	2.4	2.6	1.3	1.9	1.6	2.1	2.4
3H	1.6	2.2	2.0	2.4	2.7	1.4	1.9	1.7	2.2	2.5
4H	1.7	2.2	2.1	2.5	2.8	1.5	2.0	1.8	2.3	2.6
6H	1.9	2.3	2.3	2.6	3.0	1.7	2.1	2.1	2.5	2.8
8H	2.1	2.5	2.5	2.8	3.2	1.9	2.3	2.3	2.6	3.0
12H	2.4	2.8	2.8	3.1	3.6	2.2	2.5	2.6	2.9	3.4
8H 4H	1.6	2.0	2.1	2.4	2.8	1.4	1.8	1.9	2.2	2.6
6H	2.0	2.3	2.4	2.7	3.1	1.8	2.1	2.2	2.5	3.0
8H	2.3	2.6	2.7	3.0	3.5	2.1	2.4	2.6	2.9	3.3
12H	2.8	3.0	3.3	3.5	4.0	2.7	2.9	3.1	3.4	3.9
12H 4H	1.6	2.0	2.1	2.4	2.8	1.4	1.8	1.9	2.2	2.6
6H	2.0	2.3	2.5	2.7	3.2	1.8	2.1	2.3	2.6	3.0
8H	2.4	2.6	2.9	3.1	3.6	2.3	2.5	2.7	3.0	3.5
Variations with the observer position at spacings:										
S = 1.0H	+ 1.4 / - 1.7					+ 1.3 / - 1.7				
1.5H	+ 2.1 / - 1.6					+ 1.9 / - 1.4				
2.0H	+ 2.4 / - 1.6					+ 2.2 / - 1.5				

CIE Pub.117, 930.5 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.3)

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:sunny
 Test Date:2022-06-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.800m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:47.72V I:0.2138A P:10.20W PF:1.000 Freq:60.00Hz Lamp Flux:930.496x1 lm		
NAME: 折叠灯	TYPE:	WEIGHT:
SPEC.:4092K-Ra91	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

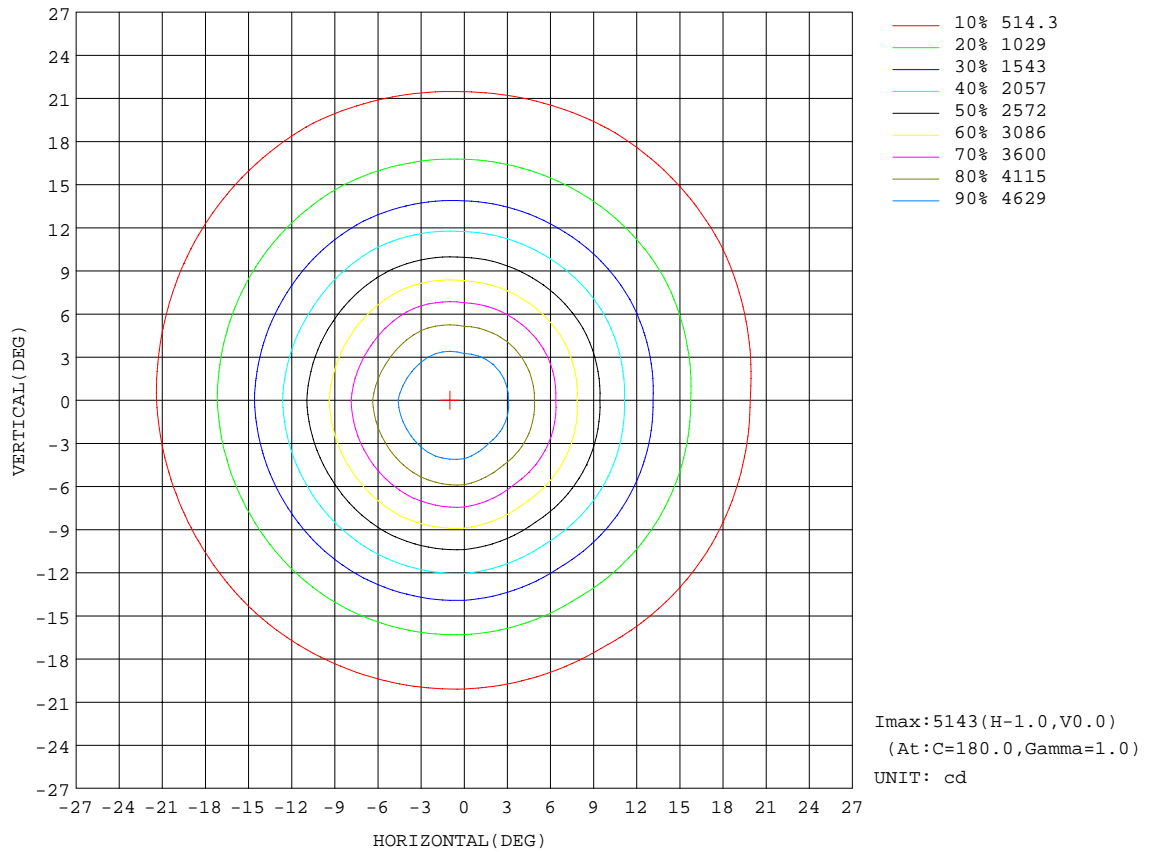
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	89	82	79	88	82	79	87	82	79	75
0.80	96	90	87	95	90	86	94	89	86	82
1.00	100	94	91	99	94	91	97	94	90	86
1.25	104	99	95	102	98	95	100	97	94	90
1.50	106	102	98	105	101	98	102	99	97	92
2.00	109	105	101	107	103	101	104	101	99	94
2.50	110	106	104	108	105	103	105	103	101	94
3.00	112	108	106	110	107	105	106	104	102	95
4.00	114	111	109	111	109	107	108	106	104	97
5.00	115	113	111	113	111	109	108	107	106	98
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:sunny
 Test Date:2022-06-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.800m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:47.72V I:0.2138A P:10.20W PF:1.000 Freq:60.00Hz Lamp Flux:930.496x1 lm		
NAME: 折叠灯	TYPE:	WEIGHT:
SPEC.:4092K-Ra91	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

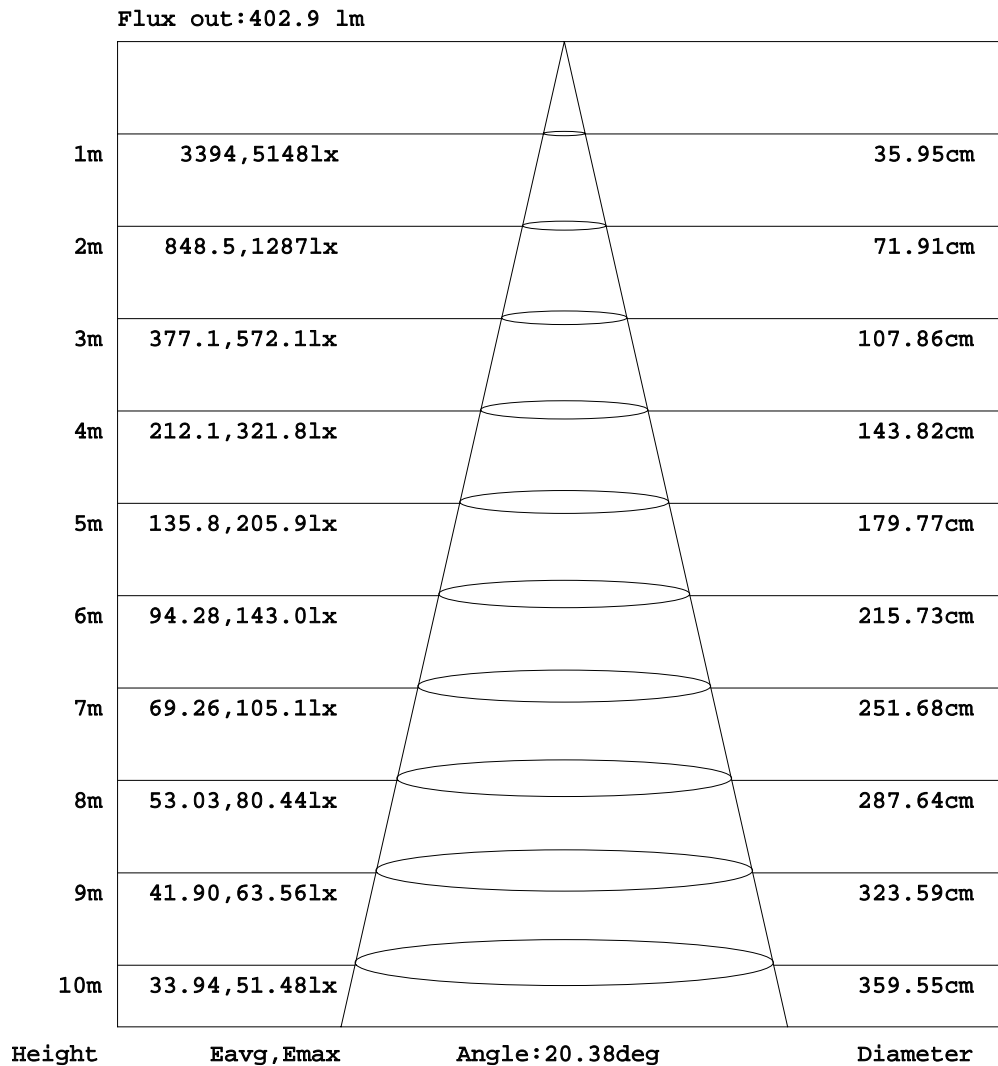


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: sunny
 Test Date: 2022-06-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 7.800m [K=1.0000]
 Remarks:

AAI Figure

Test:U:47.72V I:0.2138A P:10.20W PF:1.000 Freq:60.00Hz Lamp Flux:930.496x1 lm		
NAME: 折叠灯	TYPE:	WEIGHT:
SPEC.:4092K-Ra91	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

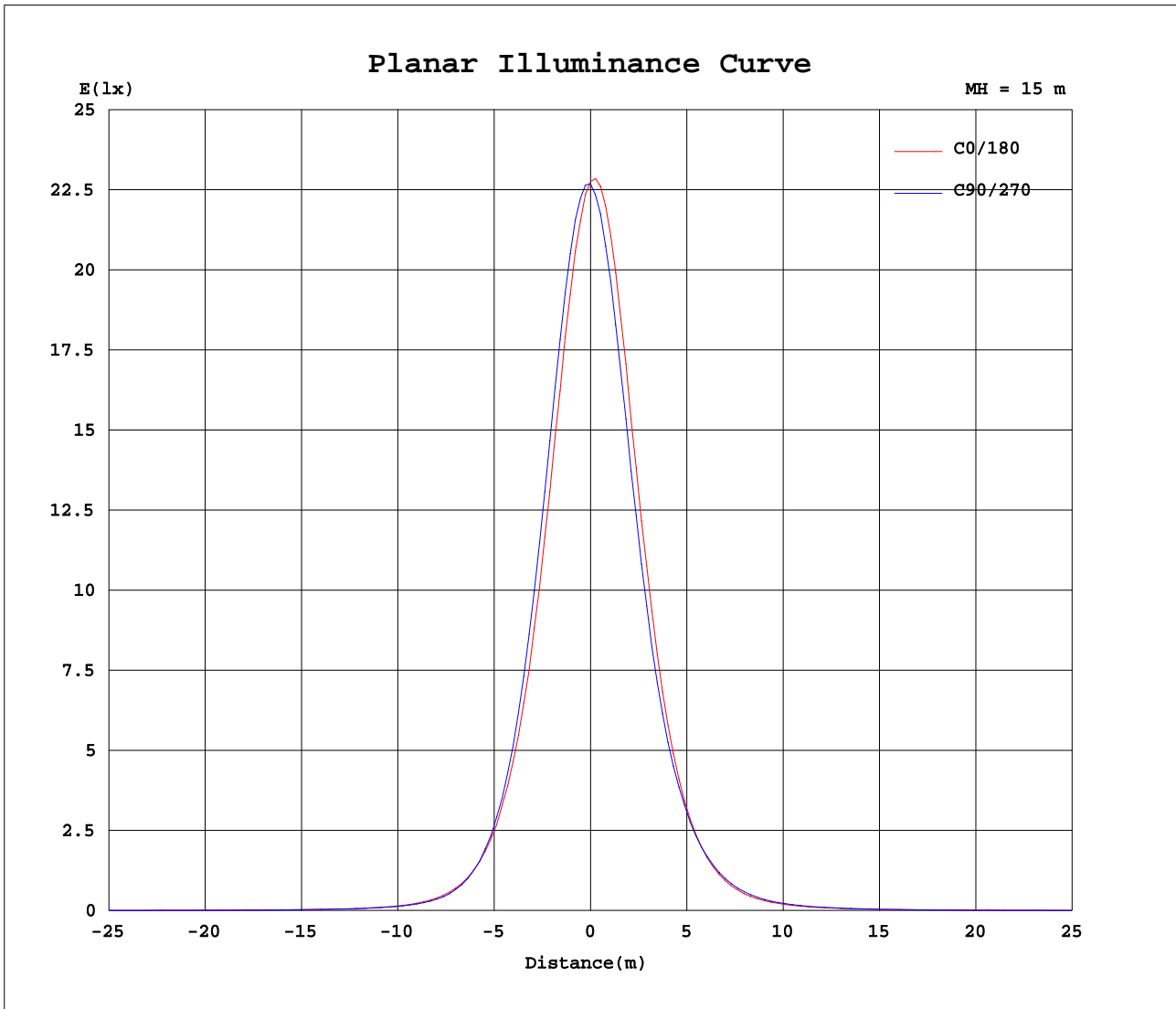


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:sunny
 Test Date:2022-06-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.800m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: sunny
 Test Date: 2022-06-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 7.800m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:47.72V I:0.2138A P:10.20W PF:1.000 Freq:60.00Hz Lamp Flux:930.496x1 lm		
NAME: 折叠灯	TYPE:	WEIGHT:
SPEC.:4092K-Ra91	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C(DEG)\ γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	5115	5115	5115	5115	5115	5115	5115	5115	5115	5115	5115	5115						
5	4077	4153	4227	4402	4477	4478	4529	4415	4352	4168	4125	4081						
10	2376	2457	2524	2708	2773	2803	2863	2760	2700	2555	2472	2441						
15	1157	1163	1191	1284	1349	1377	1446	1424	1395	1315	1259	1225						
20	503	501	481	524	550	595	647	661	679	637	617	576						
25	211	204	189	202	211	236	281	305	323	303	292	263						
30	95.7	87.5	83.9	86.7	92.2	99.9	127	143	151	145	137	123						
35	48.1	45.7	44.0	45.3	46.7	50.5	66.8	73.8	77.5	75.3	70.7	64.0						
40	28.7	27.3	26.9	27.4	28.0	29.8	39.1	42.7	44.8	44.6	42.0	37.6						
45	18.9	18.0	17.9	17.9	18.4	19.1	24.5	26.7	28.8	28.6	27.1	24.1						
50	12.8	12.1	12.2	12.1	12.6	13.0	16.2	17.5	19.0	18.5	17.6	15.8						
55	7.52	7.23	7.33	7.36	7.85	8.21	10.1	10.3	10.3	9.37	8.90	8.46						
60	4.82	4.49	4.49	4.38	4.70	4.85	6.03	5.54	5.25	4.76	4.80	4.76						
65	2.95	2.69	2.79	2.62	2.87	2.98	3.75	3.28	3.09	2.85	2.81	2.84						
70	1.61	1.60	1.72	1.61	1.74	1.77	2.16	1.87	1.84	1.84	1.71	1.64						
75	1.20	1.20	1.30	1.12	1.21	1.15	1.31	1.23	1.28	1.23	1.29	1.16						
80	1.17	1.18	1.29	1.10	1.18	1.12	1.27	1.18	1.23	1.20	1.25	1.11						
85	1.15	1.14	1.24	1.09	1.17	1.08	1.23	1.16	1.19	1.16	1.22	1.09						
90	1.17	1.11	1.23	1.07	1.15	1.07	1.18	1.15	1.16	1.12	1.21	1.06						
95	1.14	1.09	1.21	1.07	1.15	1.03	1.12	1.07	1.13	1.14	1.20	1.03						
100	1.18	1.09	1.21	1.08	1.14	1.04	1.12	1.07	1.14	1.18	1.19	1.03						
105	1.16	1.10	1.21	1.09	1.14	1.05	1.13	1.12	1.13	1.18	1.21	1.04						
110	1.17	1.12	1.19	1.11	1.16	1.06	1.15	1.15	1.15	1.19	1.22	1.06						
115	1.19	1.14	1.21	1.13	1.17	1.08	1.14	1.16	1.17	1.22	1.24	1.07						
120	1.20	1.17	1.22	1.15	1.21	1.14	1.17	1.19	1.19	1.24	1.26	1.09						
125	1.26	1.24	1.28	1.27	1.25	1.21	1.20	1.23	1.24	1.28	1.30	1.13						
130	1.39	1.38	1.42	1.41	1.41	1.34	1.30	1.28	1.29	1.32	1.35	1.19						
135	1.65	1.63	1.69	1.74	1.68	1.60	1.43	1.40	1.39	1.43	1.49	1.32						
140	2.16	2.18	2.23	2.28	2.19	2.10	1.72	1.67	1.68	1.67	1.78	1.62						
145	3.06	3.08	3.13	3.12	3.04	2.95	2.35	2.30	2.30	2.39	2.42	2.27						
150	4.33	4.41	4.46	4.43	4.32	4.22	3.49	3.47	3.50	3.62	3.68	3.51						
155	5.98	6.06	6.14	6.08	5.98	5.82	5.21	5.26	5.33	5.51	5.52	5.29						
160	7.68	7.82	7.91	7.91	7.70	7.60	7.20	7.31	7.44	7.63	7.58	7.25						
165	8.98	9.13	9.25	9.34	9.08	8.96	8.94	9.01	9.21	9.40	9.28	8.87						
170	9.69	9.82	9.96	10.1	9.87	9.69	10.0	9.98	10.3	10.4	10.2	9.76						
175	9.94	9.99	10.1	10.2	10.0	9.83	10.4	10.2	10.5	10.7	10.4	10.0						
180	10.2	10.2	10.2	10.4	10.0	9.94	10.2	10.1	10.2	10.4	10.2	9.85						

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:sunny
 Test Date:2022-06-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.800m [K=1.0000]
 Remarks: