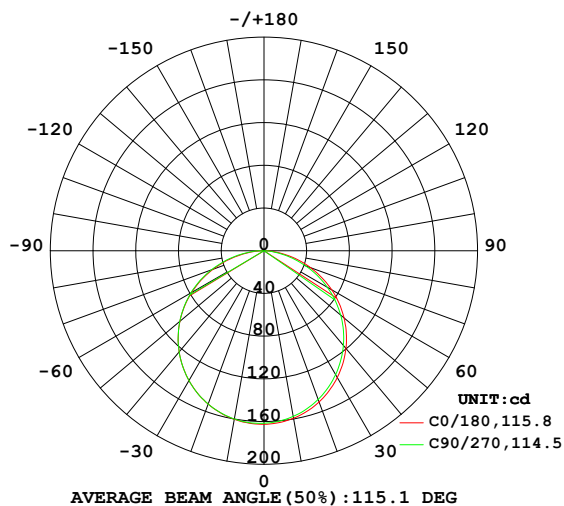


LUMINAIRE PHOTOMETRIC TEST REPORT

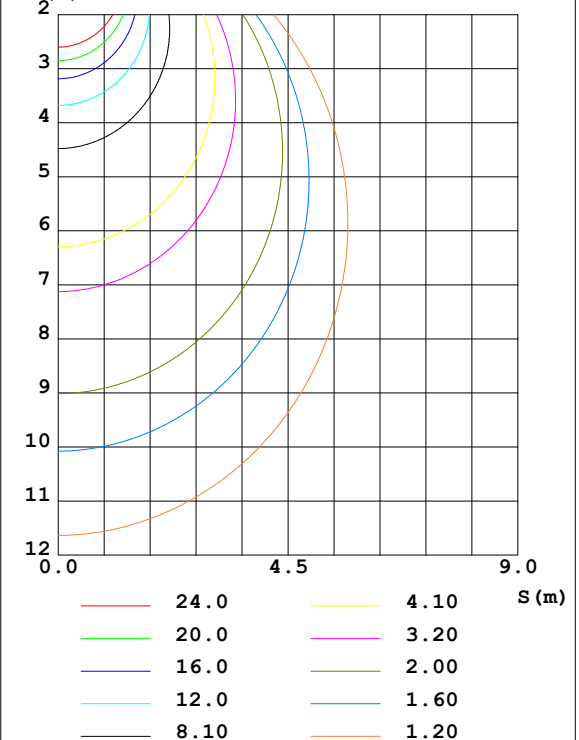
Test:U:24.001V I:0.6048A P:14.516W PF:1.0000 Freq:0Hz Lamp Flux:482.578x1 lm		
NAME: NS-146 RGBW 合	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.02*1	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 33.25 lm/W			
MODEL		I _{max} (cd)	162.4	S/MH (C0/180)	1.29
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.29
RATED VOLTAGE (V)		TOTAL FLUX (lm)	482.64	η UP, DN (C0-180)	0.4, 47.6
NOMINAL FLUX (lm)	482.578	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.5, 51.5
LAMPS INSIDE	1	η up (%)	0.9	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)		η down (%)	99.1	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JINZHI
Test Date: 2023-04-06

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity: 65.0%
Test Distance: 8.700m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

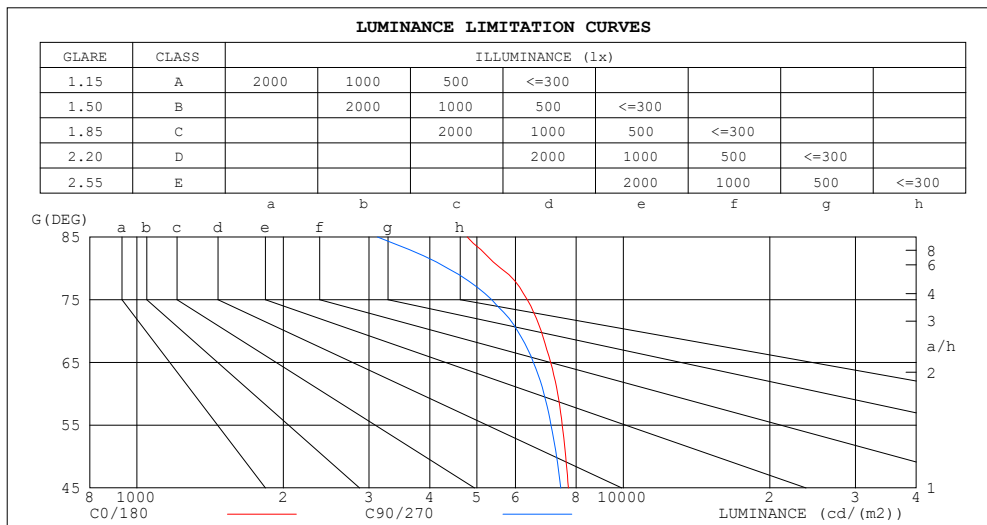
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	159.3	157.5	160.3	160.0					0- 10	15.33	15.33	3.18,3.18
20	150.7	148.2	152.9	152.8					10- 20	44.00	59.33	12.3,12.3
30	137.2	134.1	140.5	140.5					20- 30	66.92	126.3	26.2,26.2
40	119.4	115.7	123.6	123.7					30- 40	81.22	207.5	43,43
50	97.84	93.72	102.8	102.9					40- 50	85.14	292.6	60.6,60.6
60	73.32	68.68	78.20	79.05					50- 60	78.11	370.7	76.8,76.8
70	46.37	41.49	50.78	52.61					60- 70	60.81	431.5	89.4,89.4
80	19.45	15.13	22.48	24.96					70- 80	35.87	467.4	96.8,96.9
90	1.870	1.414	2.982	3.817					80- 90	10.91	478.3	99.1,99.1
100	1.023	0.4721	1.823	0.2960					90-100	1.491	479.8	99.4,99.4
110	0.3575	0.3696	0.9712	0.2796					100-110	0.7356	480.5	99.6,99.6
120	0.3569	0.4558	0.4139	0.2955					110-120	0.4022	480.9	99.6,99.7
130	0.4112	0.5420	0.5001	0.3719					120-130	0.3693	481.3	99.7,99.7
140	0.5680	0.5914	0.5766	0.5290					130-140	0.3924	481.7	99.8,99.8
150	0.5825	0.6577	0.6609	0.5665					140-150	0.3705	482.1	99.9,99.9
160	0.6066	0.7161	0.7089	0.6477					150-160	0.3014	482.4	99.9,100
170	0.6896	0.7452	0.7330	0.6774					160-170	0.1944	482.6	100,100
180	0.7636	0.7513	0.7513	0.7636					170-180	0.0692	482.6	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JINZHI
Test Date:2023-04-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity:65.0%
Test Distance:8.700m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:24.001V I:0.6048A P:14.516W PF:1.0000 Freq:0Hz Lamp Flux:482.578x1 lm		
NAME: NS-146 RGBW 合	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.02*1	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4776	3123
80	5601	4357
75	6350	5364
70	6779	6066
65	7091	6534
60	7332	6868
55	7490	7103
50	7611	7290
45	7711	7434

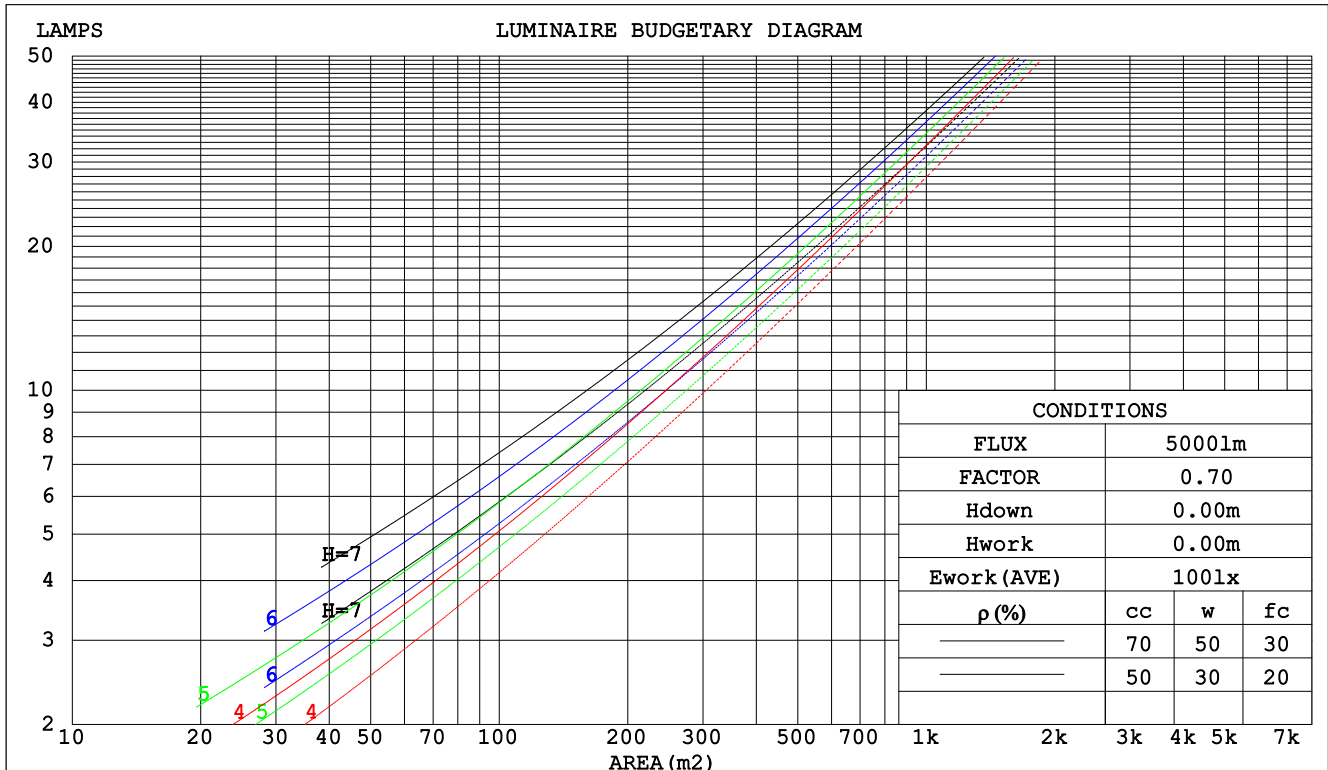
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JINZHI
Test Date:2023-04-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity:65.0%
Test Distance:8.700m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.001V I:0.6048A P:14.516W PF:1.0000 Freq:0Hz Lamp Flux:482.578x1 lm		
NAME: NS-146 RGBW 合	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.02*1	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 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	1.01	1.01	1.01	.99
1.0	1.03	.99	.95	1.01	.97	.93	.96	.93	.90	.92	.90	.87	.89	.86	.84	.82
2.0	.90	.83	.77	.88	.81	.76	.84	.79	.74	.81	.76	.72	.77	.74	.70	.68
3.0	.79	.70	.64	.77	.69	.63	.74	.67	.62	.71	.65	.60	.68	.63	.59	.57
4.0	.69	.60	.54	.68	.60	.53	.65	.58	.52	.63	.57	.52	.61	.55	.51	.49
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.45	.56	.50	.45	.54	.49	.44	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.39	.51	.44	.39	.49	.43	.39	.36
7.0	.50	.42	.35	.50	.41	.35	.48	.40	.35	.46	.40	.35	.45	.39	.34	.32
8.0	.46	.37	.31	.45	.37	.31	.44	.36	.31	.42	.36	.31	.41	.35	.31	.29
9.0	.42	.34	.28	.42	.34	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.38	.31	.25	.37	.30	.25	.36	.30	.25	.35	.29	.25	.23



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JINZHI
Test Date:2023-04-06

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity:65.0%
Test Distance:8.700m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:24.001V I:0.6048A P:14.516W PF:1.0000 Freq:0Hz Lamp Flux:482.578x1 lm		
NAME: NS-146 RGBW 合	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.02*1	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	.317	.180	.057	.310	.177	.056	.296	.170	.054	.284	.164	.052	.272	.158	.051		
2.0	.297	.163	.050	.290	.160	.049	.278	.155	.048	.267	.150	.047	.256	.145	.046		
3.0	.274	.146	.044	.268	.144	.043	.257	.139	.042	.247	.135	.042	.238	.132	.041		
4.0	.252	.131	.039	.247	.129	.038	.237	.126	.038	.228	.123	.037	.220	.120	.036		
5.0	.233	.119	.034	.228	.117	.034	.220	.114	.034	.212	.112	.033	.204	.109	.033		
6.0	.215	.108	.031	.211	.107	.031	.204	.104	.030	.197	.102	.030	.190	.100	.030		
7.0	.200	.099	.028	.197	.098	.028	.190	.096	.028	.183	.094	.027	.177	.092	.027		
8.0	.187	.091	.026	.184	.090	.026	.178	.089	.025	.172	.087	.025	.166	.085	.025		
9.0	.175	.085	.024	.172	.084	.024	.167	.082	.023	.161	.081	.023	.157	.079	.023		
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.152	.076	.021	.148	.074	.021		

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	.197	.197	.197	.169	.169	.169	.115	.115	.115	.066	.066	.066	.021	.021	.021	
1.0	.188	.163	.141	.161	.140	.121	.110	.096	.084	.063	.056	.049	.020	.018	.016	
2.0	.180	.139	.104	.154	.120	.090	.106	.083	.063	.061	.048	.037	.020	.016	.012	
3.0	.172	.121	.081	.148	.105	.070	.101	.073	.049	.059	.042	.029	.019	.014	.009	
4.0	.165	.108	.065	.141	.093	.056	.097	.065	.040	.056	.038	.023	.018	.012	.008	
5.0	.157	.098	.054	.135	.085	.047	.093	.059	.033	.054	.035	.020	.017	.011	.006	
6.0	.150	.089	.046	.129	.077	.040	.089	.054	.028	.052	.032	.017	.017	.010	.006	
7.0	.143	.083	.040	.123	.072	.035	.085	.050	.025	.049	.030	.015	.016	.010	.005	
8.0	.137	.077	.036	.118	.067	.031	.081	.047	.022	.047	.028	.013	.015	.009	.004	
9.0	.130	.072	.032	.112	.062	.028	.078	.044	.020	.045	.026	.012	.015	.008	.004	
10.0	.125	.067	.029	.107	.059	.026	.075	.041	.018	.043	.024	.011	.014	.008	.004	

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JINZHI
Test Date:2023-04-06

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity:65.0%
Test Distance:8.700m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:24.001V I:0.6048A P:14.516W PF:1.0000 Freq:0Hz										
Lamp Flux:482.578x1 lm										
NAME: NS-146 RGBW 合					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: EVERFINE					SUR.: 0.02*1			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	22.2	23.8	22.5	24.0	24.2	22.0	23.5	22.3	23.8	24.0
3H	23.8	25.2	24.1	25.5	25.7	23.5	24.9	23.8	25.1	25.4
4H	24.4	25.8	24.8	26.0	26.3	24.0	25.3	24.3	25.6	25.9
6H	24.9	26.1	25.2	26.4	26.7	24.3	25.6	24.7	25.9	26.2
8H	25.0	26.2	25.4	26.5	26.8	24.4	25.6	24.8	25.9	26.2
12H	25.1	26.3	25.5	26.6	26.9	24.4	25.6	24.8	25.9	26.2
4H 2H	22.8	24.2	23.2	24.4	24.7	22.7	24.0	23.0	24.3	24.5
3H	24.6	25.7	24.9	26.1	26.4	24.3	25.5	24.6	25.8	26.1
4H	25.3	26.4	25.7	26.7	27.1	24.9	26.0	25.3	26.3	26.7
6H	25.9	26.8	26.3	27.2	27.6	25.4	26.3	25.8	26.7	27.1
8H	26.1	27.0	26.5	27.3	27.7	25.5	26.4	25.9	26.8	27.2
12H	26.2	27.0	26.6	27.4	27.8	25.5	26.4	26.0	26.8	27.2
8H 4H	25.5	26.4	26.0	26.8	27.2	25.2	26.1	25.6	26.5	26.9
6H	26.2	27.0	26.7	27.4	27.9	25.8	26.5	26.2	26.9	27.4
8H	26.5	27.2	27.0	27.6	28.1	26.0	26.6	26.4	27.1	27.5
12H	26.7	27.3	27.2	27.7	28.2	26.1	26.6	26.6	27.1	27.6
12H 4H	25.5	26.4	26.0	26.8	27.2	25.2	26.0	25.6	26.4	26.9
6H	26.3	26.9	26.8	27.4	27.8	25.8	26.5	26.3	26.9	27.4
8H	26.6	27.1	27.1	27.6	28.1	26.0	26.6	26.5	27.1	27.6
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 482.6 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.5)
Area: 0.02 m2

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JINZHI
Test Date:2023-04-06

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity:65.0%
Test Distance:8.700m [K=1.0000]
Remarks:

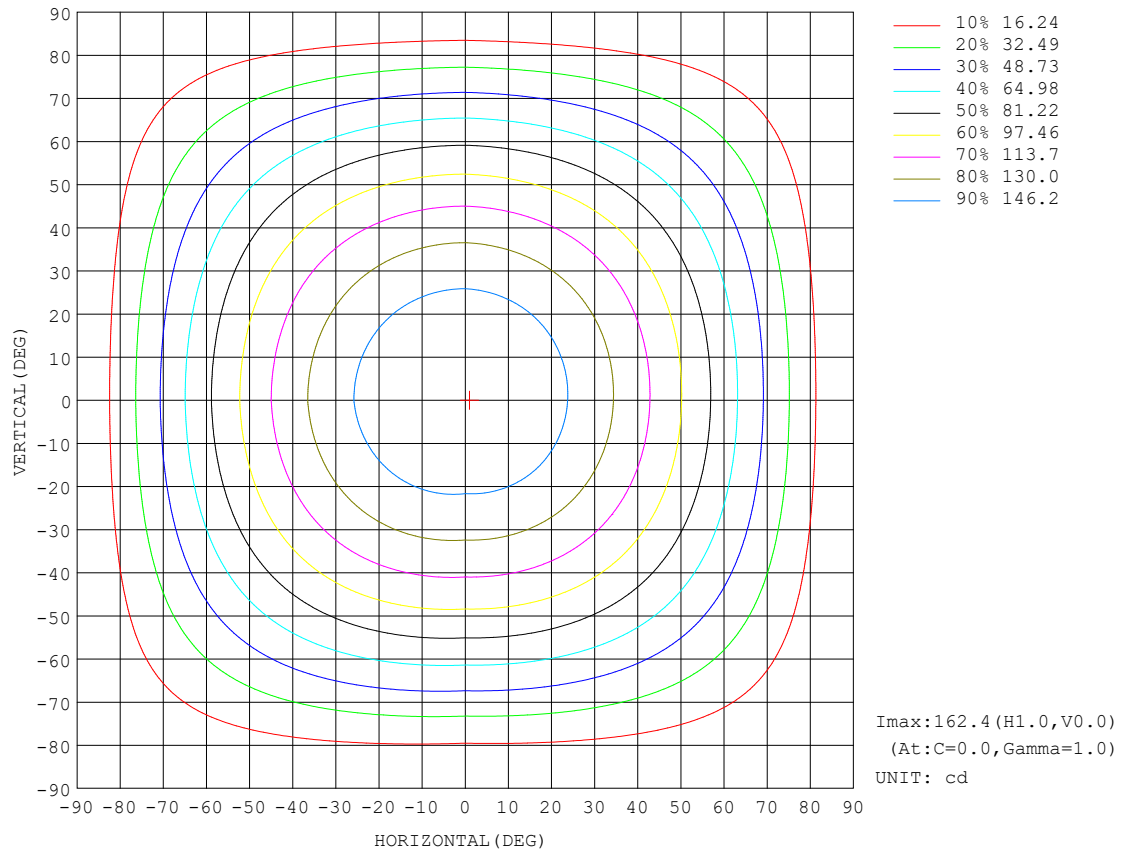
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity:65.0%
Test Distance:8.700m [K=1.0000]
Remarks:

```

ISOCANDELA DIAGRAM

Test:U:24.001V I:0.6048A P:14.516W PF:1.0000 Freq:0Hz Lamp Flux:482.578x1 lm		
NAME: NS-146 RGBW 合	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.02*1	Shielding Angle:

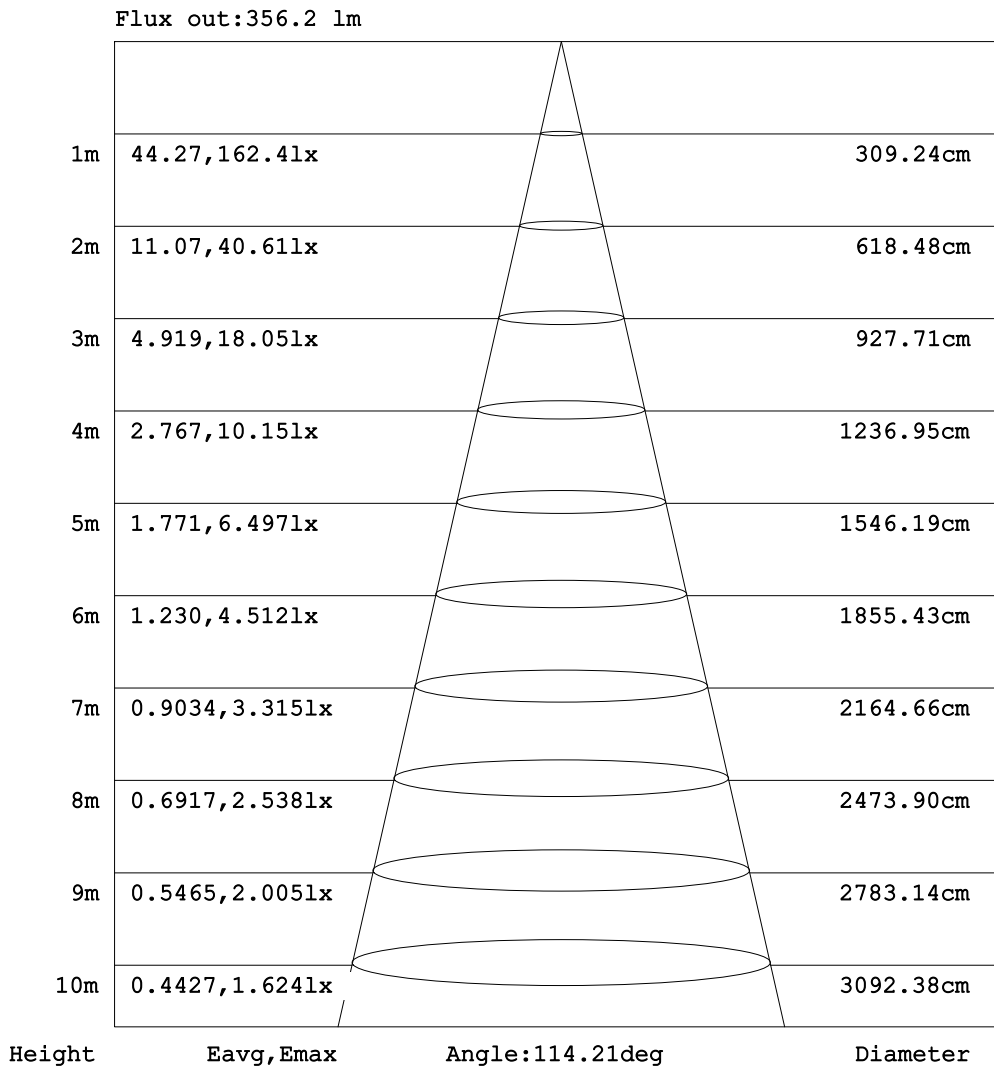


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JINZHI
Test Date:2023-04-06

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity:65.0%
Test Distance:8.700m [K=1.0000]
Remarks:

AAI Figure

Test:U:24.001V I:0.6048A P:14.516W PF:1.0000 Freq:0Hz Lamp Flux:482.578x1 lm		
NAME: NS-146 RGBW 合	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.02*1	Shielding Angle:



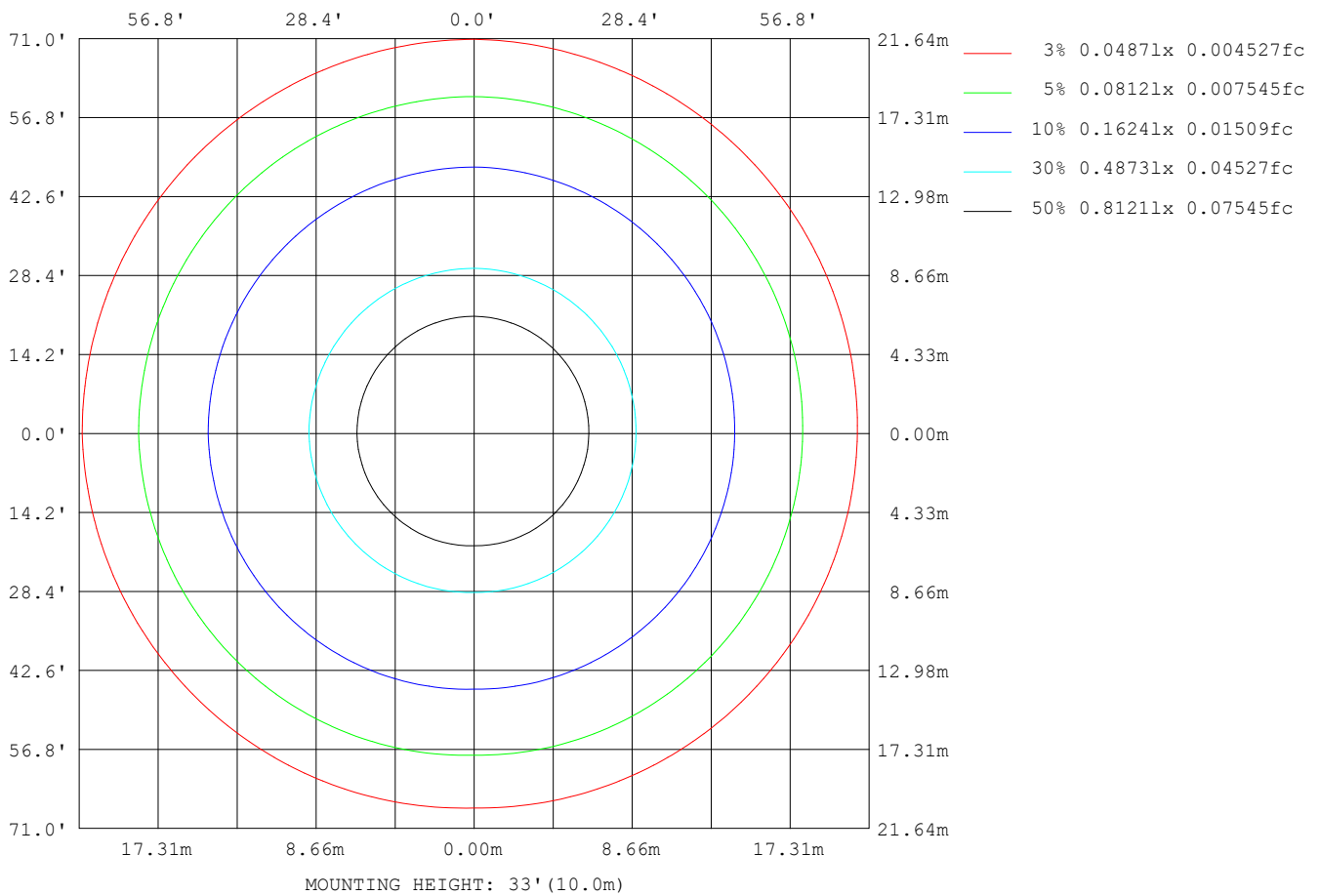
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JINZHI
Test Date:2023-04-06

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity:65.0%
Test Distance:8.700m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:24.001V I:0.6048A P:14.516W PF:1.0000 Freq:0Hz Lamp Flux:482.578x1 lm		
NAME: NS-146 RGBW 合	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.02*1	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: JINZHI
 Test Date: 2023-04-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.444
 Humidity: 65.0%
 Test Distance: 8.700m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:24.001V I:0.6048A P:14.516W PF:1.0000 Freq:0Hz Lamp Flux:482.578x1 lm		
NAME: NS-146 RGBW 合	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.02*1	Shielding Angle:

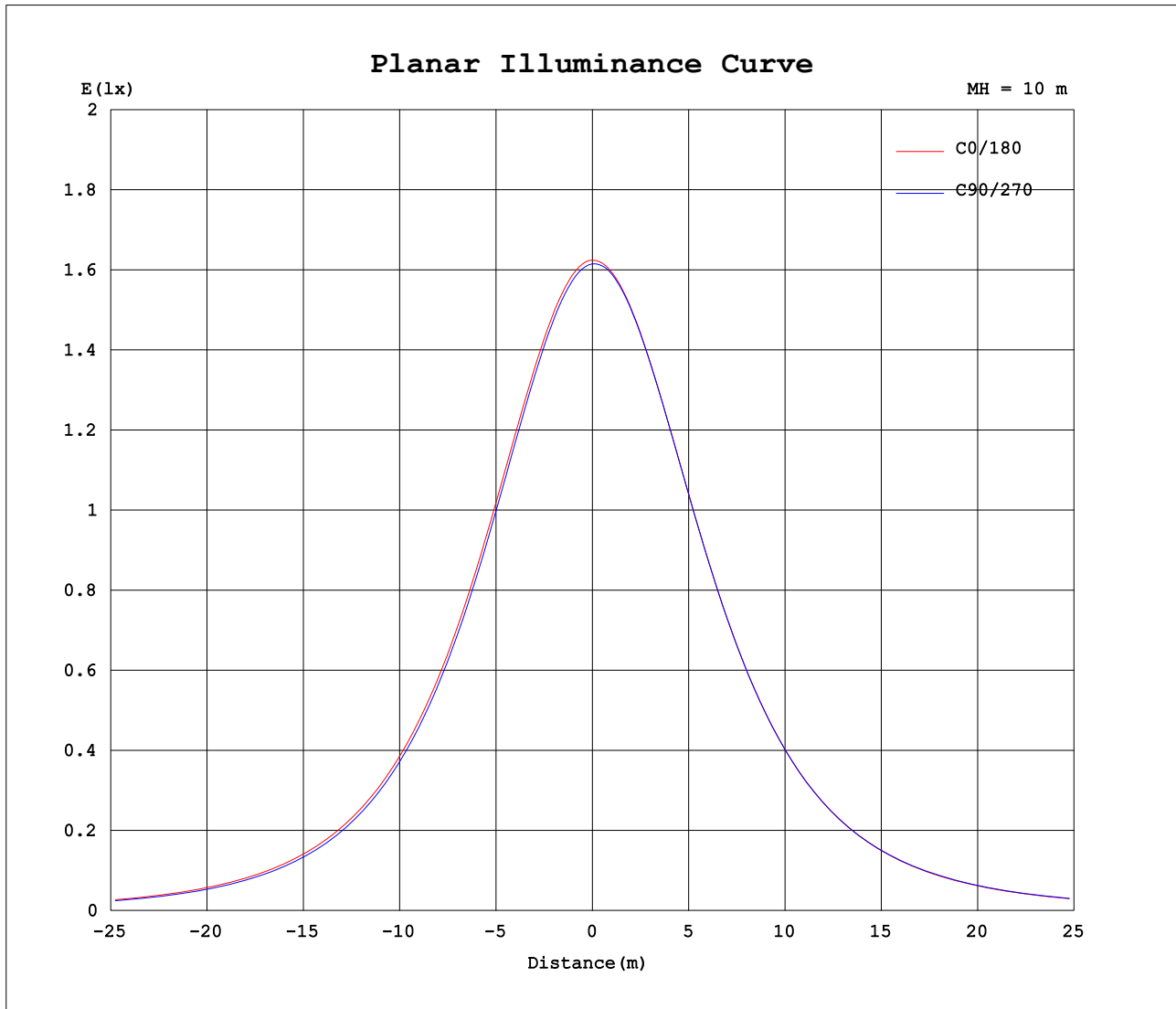
AvgL	cd/m2
L_0~180 (65) av	7379
L_0~180 (75) av	6697
L_0~180 (85) av	5373
L_90~270 (65) av	7179
L_90~270 (75) av	6412
L_90~270 (85) av	5175
L_45 (65) av	7272
L_45 (75) av	6540
L_45 (85) av	5286

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JINZHI
 Test Date:2023-04-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
 Humidity:65.0%
 Test Distance:8.700m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JINZHI
Test Date: 2023-04-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity: 65.0%
Test Distance: 8.700m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.001V I:0.6048A P:14.516W PF:1.0000 Freq:0Hz Lamp Flux:482.578x1 lm		
NAME: NS-146 RGBW 合	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.02*1	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270														
0	162	162	162	162														
5	162	160	162	162														
10	159	158	160	160														
15	156	154	157	157														
20	151	148	153	153														
25	145	142	147	147														
30	137	134	140	141														
35	129	125	133	133														
40	119	116	124	124														
45	109	105	114	114														
50	97.8	93.7	103	103														
55	85.9	81.5	90.9	91.4														
60	73.3	68.7	78.2	79.1														
65	59.9	55.2	64.8	66.1														
70	46.4	41.5	50.8	52.6														
75	32.9	27.8	36.5	38.6														
80	19.5	15.1	22.5	25.0														
85	8.32	5.44	10.4	12.6														
90	1.87	1.41	2.98	3.82														
95	1.66	0.53	2.04	0.83														
100	1.02	0.47	1.82	0.30														
105	0.56	0.42	1.61	0.27														
110	0.36	0.37	0.97	0.28														
115	0.36	0.40	0.53	0.29														
120	0.36	0.46	0.41	0.30														
125	0.37	0.48	0.46	0.33														
130	0.41	0.54	0.50	0.37														
135	0.52	0.55	0.55	0.41														
140	0.57	0.59	0.58	0.53														
145	0.58	0.63	0.64	0.51														
150	0.58	0.66	0.66	0.57														
155	0.59	0.69	0.69	0.65														
160	0.61	0.72	0.71	0.65														
165	0.63	0.73	0.72	0.66														
170	0.69	0.75	0.73	0.68														
175	0.73	0.75	0.71	0.71														
180	0.76	0.75	0.75	0.76														

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JINZHI
Test Date:2023-04-06

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity:65.0%
Test Distance:8.700m [K=1.0000]
Remarks: