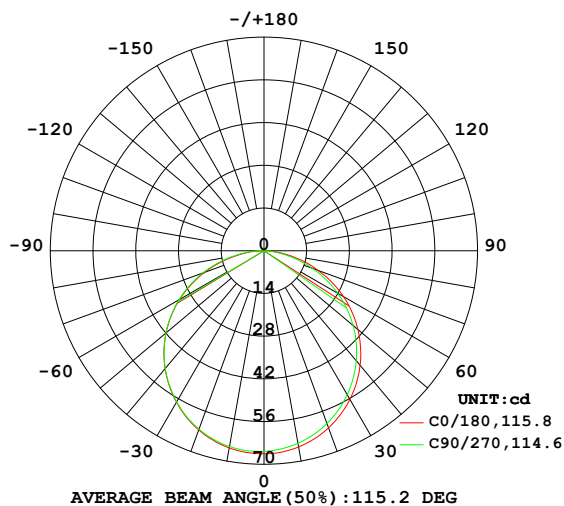


LUMINAIRE PHOTOMETRIC TEST REPORT

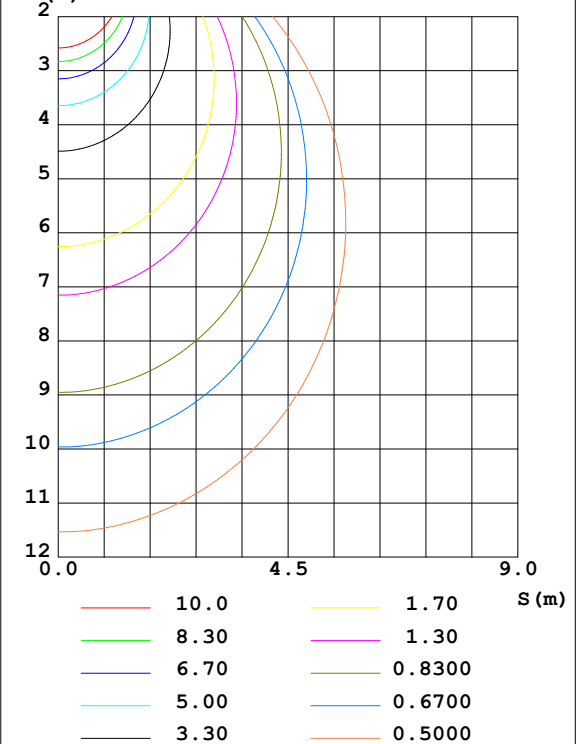
Test:U:24.001V I:0.1482A P:3.5569W PF:1.0000 Freq:0Hz Lamp Flux:196.845x1 lm		
NAME: NS-146 RGBW W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.02*1	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 55.36 lm/W			
MODEL		I _{max} (cd)	66.51	S/MH (C0/180)	1.28
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.29
RATED VOLTAGE (V)		TOTAL FLUX (lm)	196.92	η UP,DN (C0-180)	0.4,47.6
NOMINAL FLUX (lm)	196.845	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:

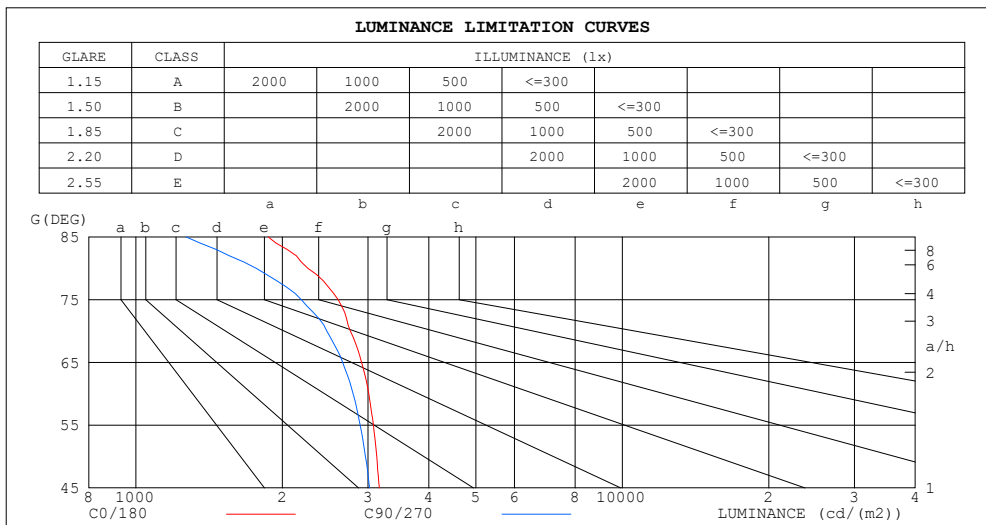
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	65.29	64.07	65.61	65.17					0- 10	6.261	6.261	3.18,3.18
20	61.80	60.28	62.52	62.25					10- 20	17.96	24.22	12.3,12.3
30	56.27	54.52	57.36	57.19					20- 30	27.32	51.54	26.2,26.2
40	48.97	47.05	50.43	50.37					30- 40	33.15	84.69	43,43
50	40.21	38.11	41.90	41.97					40- 50	34.75	119.4	60.7,60.7
60	30.11	27.96	31.94	32.21					50- 60	31.89	151.3	76.8,76.9
70	18.88	16.89	20.72	21.39					60- 70	24.82	176.2	89.5,89.5
80	7.845	6.138	9.127	10.15					70- 80	14.62	190.8	96.9,96.9
90	0.6935	0.5286	1.394	1.581					80- 90	4.393	195.2	99.1,99.1
100	0.3945	0.1724	0.6402	0.1637					90-100	0.6177	195.8	99.4,99.5
110	0.1358	0.1765	0.3196	0.1553					100-110	0.2880	196.1	99.6,99.6
120	0.1969	0.2007	0.1693	0.1725					110-120	0.1826	196.2	99.7,99.7
130	0.2094	0.2248	0.2182	0.1971					120-130	0.1799	196.4	99.7,99.8
140	0.2094	0.2340	0.2340	0.2003					130-140	0.1686	196.6	99.8,99.9
150	0.2094	0.2340	0.2340	0.2042					140-150	0.1381	196.7	99.9,99.9
160	0.2094	0.2340	0.2340	0.2082					150-160	0.1022	196.8	100,100
170	0.2121	0.2340	0.2340	0.2193					160-170	0.0631	196.9	100,100
180	0.2340	0.2340	0.2340	0.2340					170-180	0.0217	196.9	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:0.1482A P:3.5569W PF:1.0000 Freq:0Hz Lamp Flux:196.845x1 lm		
NAME: NS-146 RGBW W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.02*1	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1871	1269
80	2259	1767
75	2606	2190
70	2760	2469
65	2911	2661
60	3011	2796
55	3079	2892
50	3128	2964
45	3165	3023

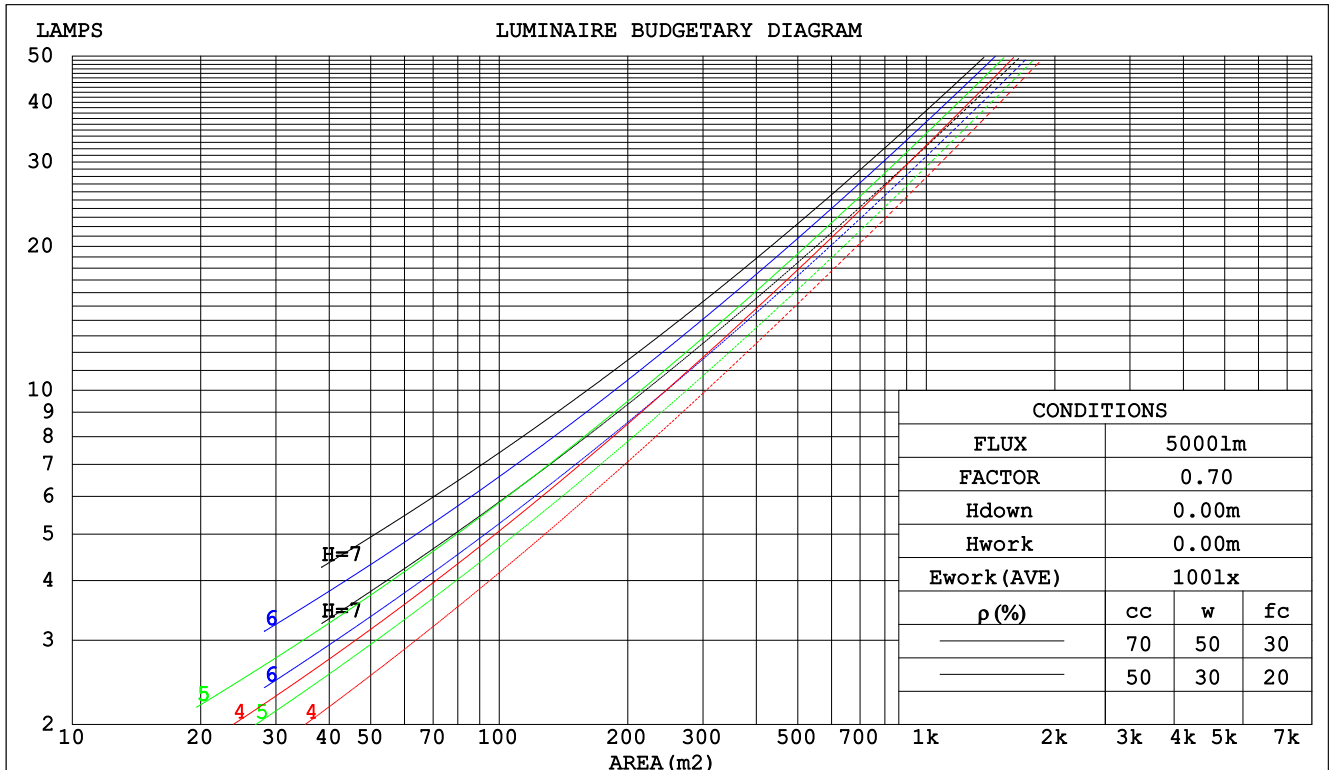
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JINZHI
Test Date:2023-04-06

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:0.1482A P:3.5569W PF:1.0000 Freq:0Hz Lamp Flux:196.845x1 lm		
NAME: NS-146 RGBW W	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	.97	.93	.90	.92	.90	.87	.89	.87	.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	.61	.68	.63	.59	.57
4.0	.69	.61	.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	.43	.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	.26	.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:0.1482A P:3.5569W PF:1.0000 Freq:0Hz Lamp Flux:196.845x1 lm		
NAME: NS-146 RGBW W	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	.283	.163	.052	.272	.157	.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	.216	.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	.080	.023		
10.0	.165	.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:0.1482A P:3.5569W PF:1.0000 Freq:0Hz										
Lamp Flux:196.845x1 lm										
NAME: NS-146 RGBW W					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	22.3	23.8	22.6	24.0	24.3	22.0	23.5	22.3	23.8	24.0
3H	23.8	25.2	24.1	25.5	25.8	23.5	24.9	23.8	25.1	25.4
4H	24.5	25.8	24.8	26.1	26.4	24.0	25.3	24.3	25.6	25.9
6H	24.9	26.2	25.2	26.5	26.8	24.3	25.6	24.7	25.9	26.2
8H	25.0	26.3	25.4	26.6	26.9	24.4	25.6	24.7	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	22.9	24.2	23.2	24.5	24.7	22.7	24.0	23.0	24.3	24.5
3H	24.6	25.8	25.0	26.1	26.4	24.3	25.5	24.6	25.8	26.1
4H	25.3	26.4	25.7	26.8	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	27.8	25.5	26.4	25.9	26.7	27.2
12H	26.2	27.0	26.6	27.4	27.8	25.5	26.3	26.0	26.7	27.2
8H 4H	25.6	26.5	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	25.9	26.6	26.4	27.0	27.5
12H	26.7	27.2	27.2	27.7	28.2	26.0	26.6	26.5	27.1	27.6
12H 4H	25.6	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	27.9	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, 196.8 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -5.6)
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:

UTILIZATION FACTORS TABLE

Test:U:24.001V I:0.1482A P:3.5569W PF:1.0000 Freq:0Hz Lamp Flux:196.845x1 lm		
NAME: NS-146 RGBW W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.02*1	Shielding Angle:

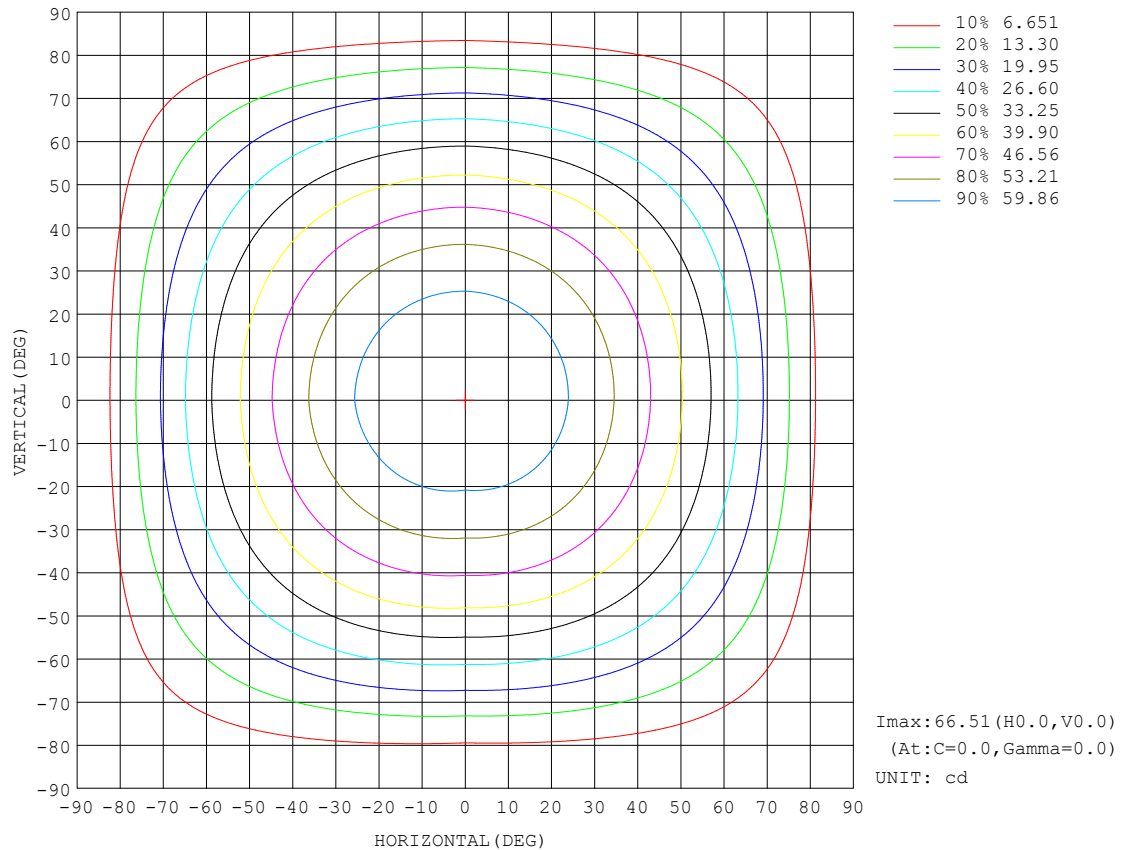
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) k(RI) x RCR = 5									
k = 0.60	57	45	38	56	45	38	55	44	38	31
0.80	67	55	47	66	54	47	64	54	47	40
1.00	75	64	56	74	63	56	71	64	55	48
1.25	82	71	64	81	71	64	78	69	63	55
1.50	87	77	70	85	76	69	82	74	68	60
2.00	94	85	79	92	84	78	89	82	76	68
2.50	98	90	84	96	89	83	92	86	81	72
3.00	102	94	89	99	93	88	95	90	85	77
4.00	106	100	95	103	98	94	99	94	91	82
5.00	108	103	99	106	101	97	101	97	94	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004										
Suspended										
SHRNM = 1.25										

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:

ISOCANDELA DIAGRAM

Test:U:24.001V I:0.1482A P:3.5569W PF:1.0000 Freq:0Hz Lamp Flux:196.845x1 lm		
NAME: NS-146 RGBW W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.02*1	Shielding Angle:

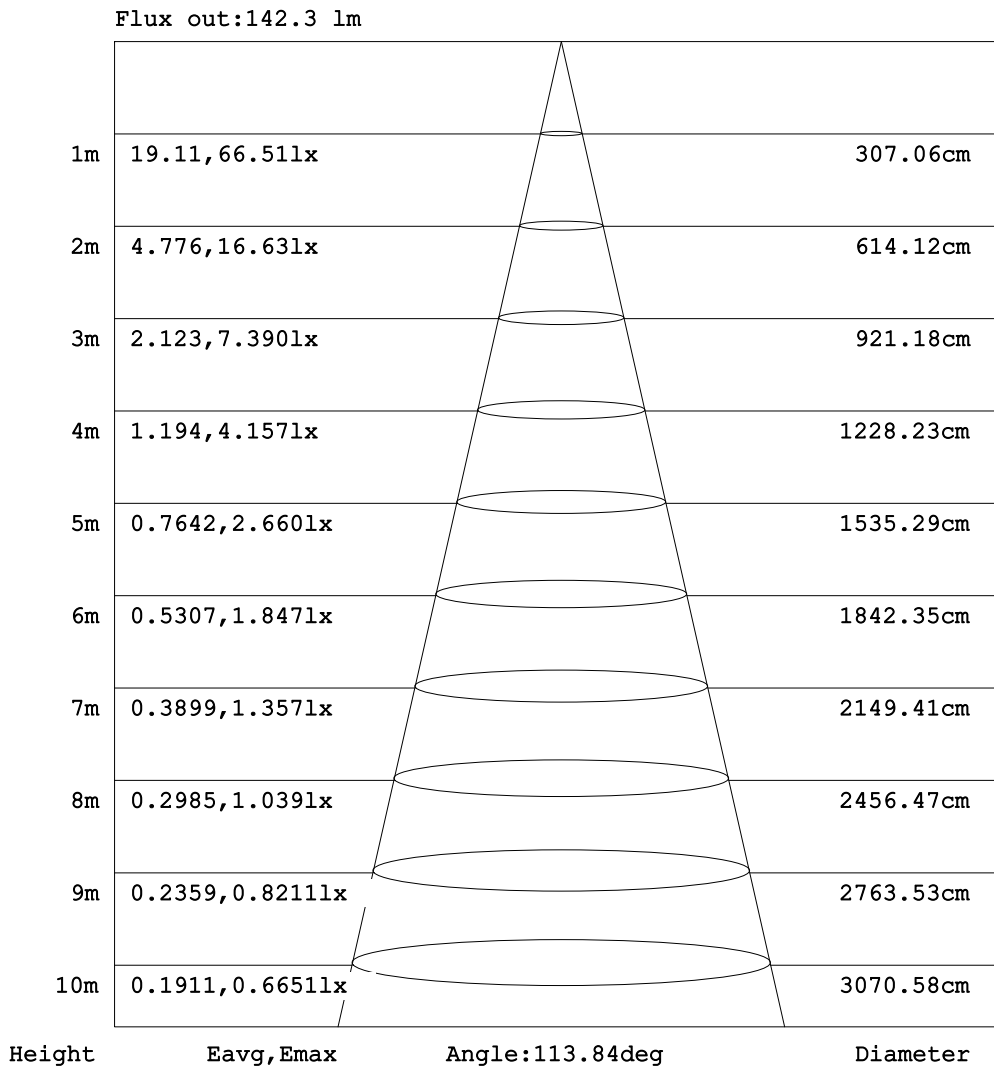


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JINZHI
Test Date:2023-04-06

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:0.1482A P:3.5569W PF:1.0000 Freq:0Hz Lamp Flux:196.845x1 lm		
NAME: NS-146 RGBW W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.02*1	Shielding Angle:



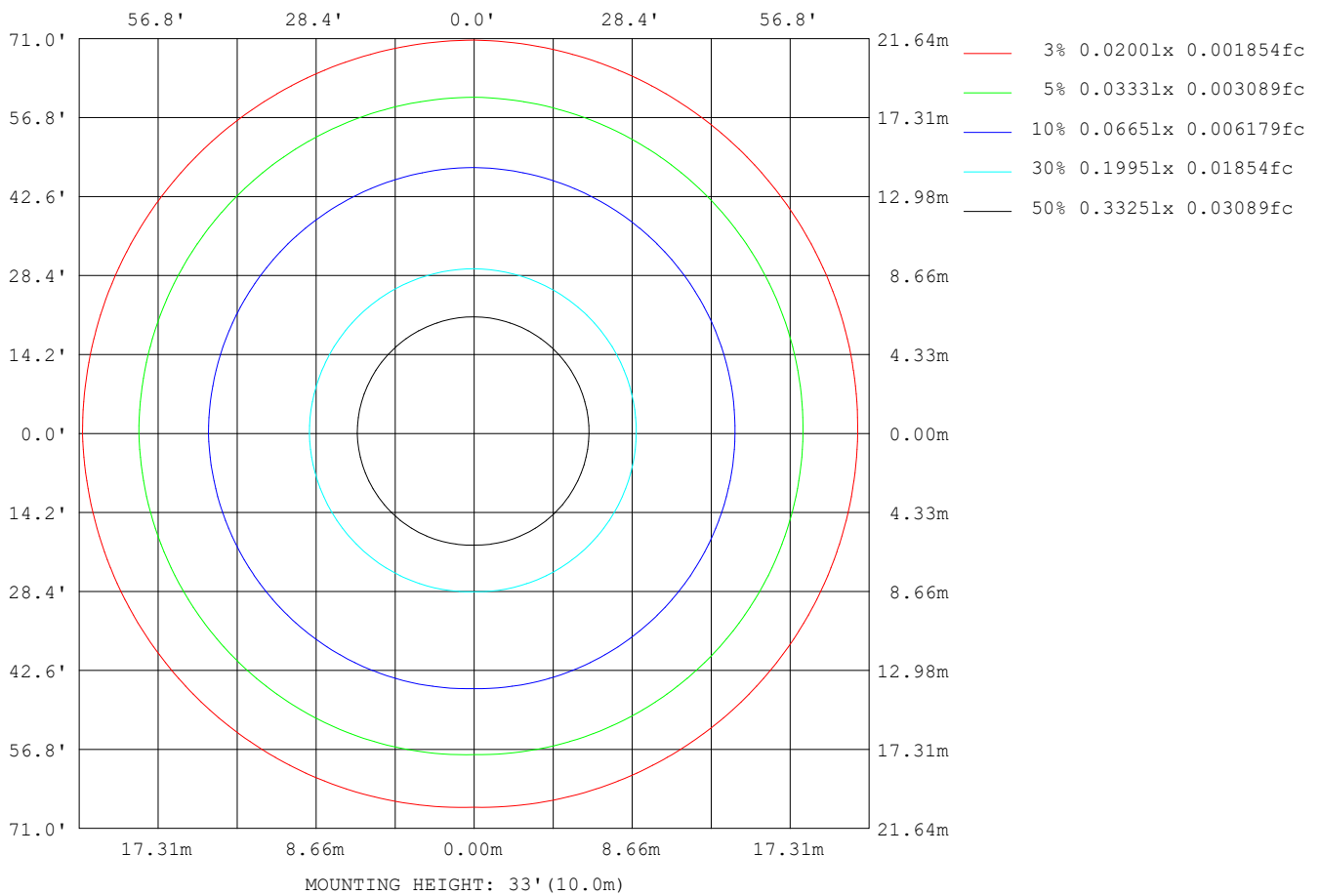
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.1482A P:3.5569W PF:1.0000 Freq:0Hz Lamp Flux:196.845x1 lm		
NAME: NS-146 RGBW W	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:0.1482A P:3.5569W PF:1.0000 Freq:0Hz Lamp Flux:196.845x1 lm		
NAME: NS-146 RGBW W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.02*1	Shielding Angle:

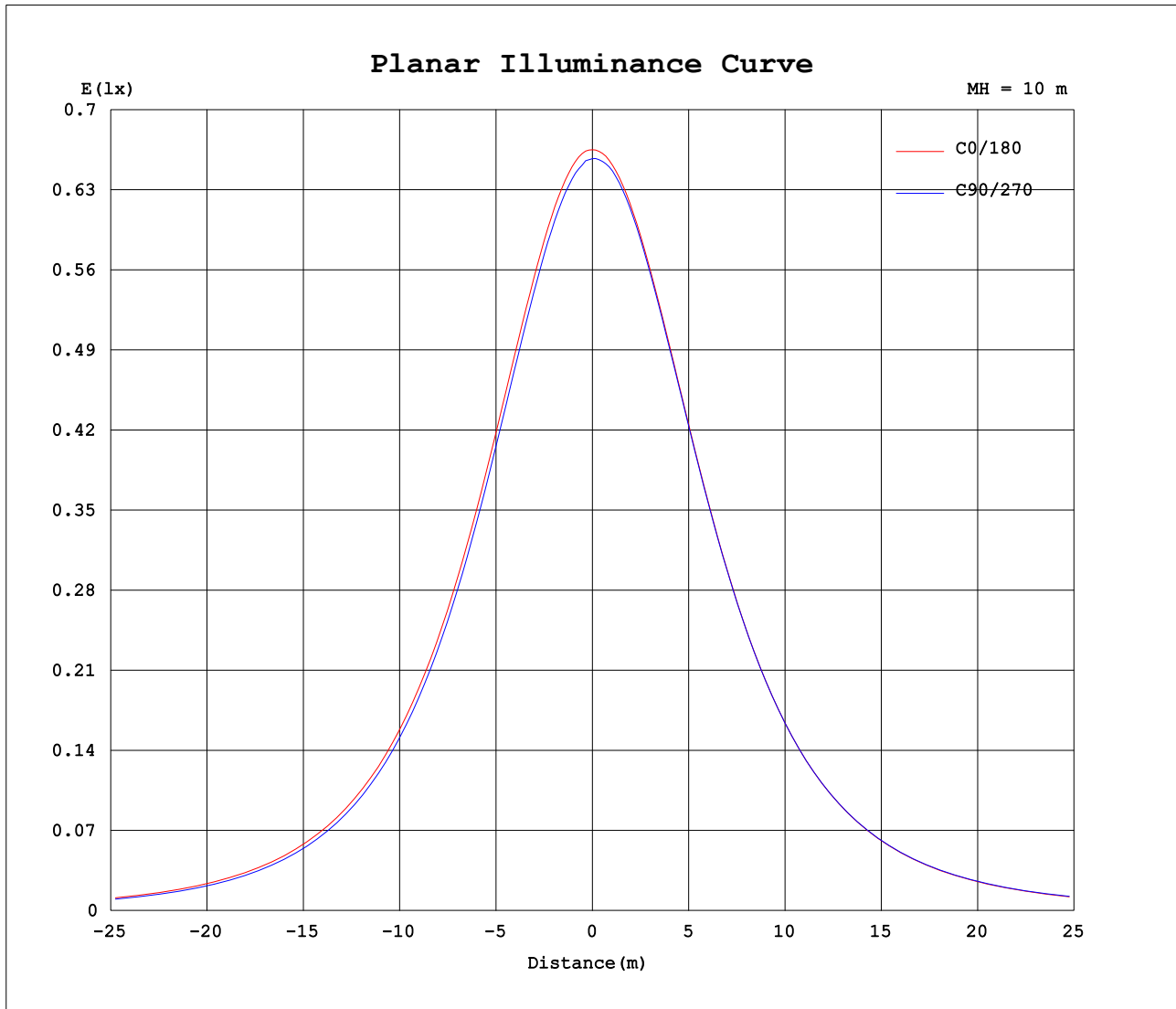
AvgL	cd/m2
L_0~180 (65) av	3021
L_0~180 (75) av	2739
L_0~180 (85) av	2123
L_90~270 (65) av	2921
L_90~270 (75) av	2614
L_90~270 (85) av	2110
L_45 (65) av	2965
L_45 (75) av	2669
L_45 (85) av	2131

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:0.1482A P:3.5569W PF:1.0000 Freq:0Hz Lamp Flux:196.845x1 lm		
NAME: NS-146 RGBW W	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	66.5	65.7	66.5	65.7															
5	66.2	65.2	66.3	65.8															
10	65.3	64.1	65.6	65.2															
15	63.8	62.4	64.3	64.0															
20	61.8	60.3	62.5	62.2															
25	59.3	57.6	60.2	60.0															
30	56.3	54.5	57.4	57.2															
35	52.9	51.0	54.1	54.0															
40	49.0	47.1	50.4	50.4															
45	44.8	42.8	46.4	46.4															
50	40.2	38.1	41.9	42.0															
55	35.3	33.2	37.1	37.2															
60	30.1	28.0	31.9	32.2															
65	24.6	22.5	26.5	26.9															
70	18.9	16.9	20.7	21.4															
75	13.5	11.3	14.9	15.7															
80	7.85	6.14	9.13	10.1															
85	3.26	2.21	4.14	5.14															
90	0.69	0.53	1.39	1.58															
95	0.62	0.27	0.75	0.38															
100	0.39	0.17	0.64	0.16															
105	0.23	0.17	0.57	0.13															
110	0.14	0.18	0.32	0.16															
115	0.17	0.18	0.22	0.16															
120	0.20	0.20	0.17	0.17															
125	0.21	0.21	0.20	0.20															
130	0.21	0.22	0.22	0.20															
135	0.21	0.23	0.23	0.20															
140	0.21	0.23	0.23	0.20															
145	0.21	0.23	0.23	0.20															
150	0.21	0.23	0.23	0.20															
155	0.21	0.23	0.23	0.21															
160	0.21	0.23	0.23	0.21															
165	0.21	0.23	0.23	0.21															
170	0.21	0.23	0.23	0.22															
175	0.22	0.23	0.23	0.23															
180	0.23	0.23	0.23	0.23															

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
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γ Range: 0 - 180DEG
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γ Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
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