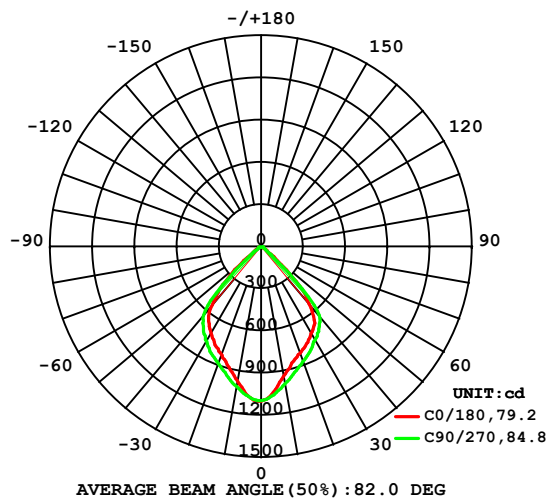


LUMINAIRE PHOTOMETRIC TEST REPORT

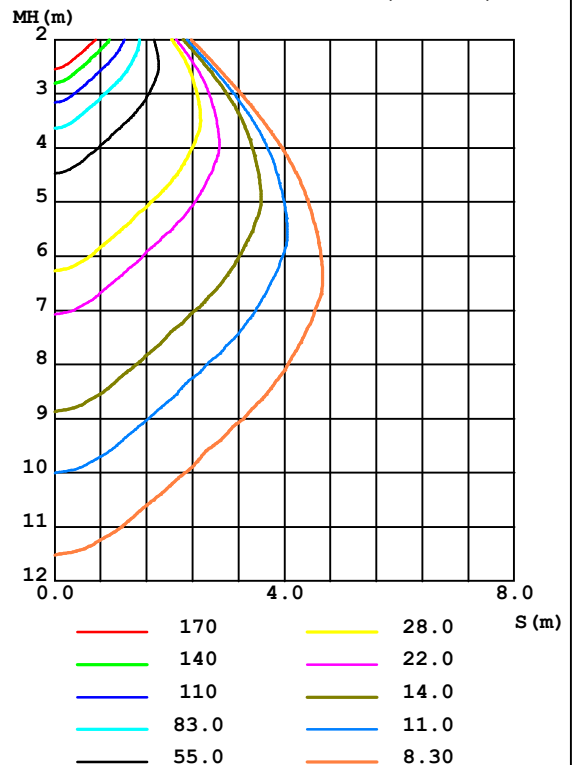
Test:U:220.09V I:0.0726A P:14.641W PF:0.9168 Freq:50.00Hz Lamp Flux:1800x1 lm		
NAME: BE-D2126-15W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BEONE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 100.02 lm/W			
MODEL	Bridgelux V13-B	I _{max} (cd)	1102	S/MH(C0/180)	0.98
NOMINAL POWER(W)	15	LOR(%)	81.4	S/MH(C90/270)	1.08
RATED VOLTAGE(V)	220-240	TOTAL FLUX(lm)	1464.3	η UP,DN(C0-180)	0.0,40.3
NOMINAL FLUX(lm)	1800	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,41.1
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220	η down(%)	81.4	CIBSE SHR MAX	1.25

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:24.5DEG
Operators:陈杰梁
Test Date:2020-07-23

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
Humidity:47%
Test Distance:12.000m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

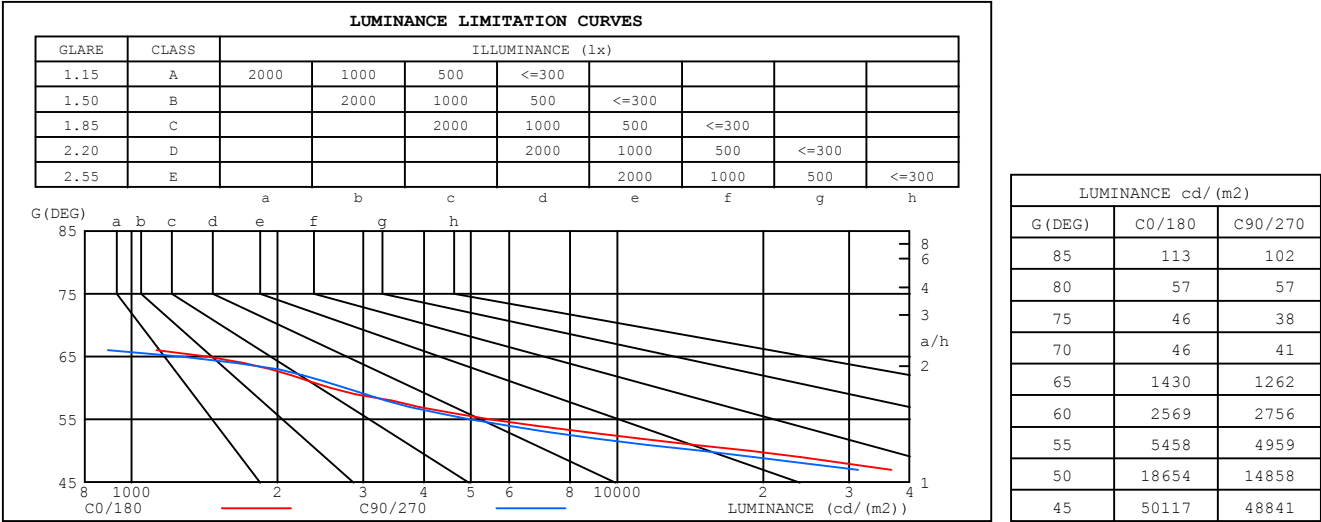
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	940.6	959.7	993.0	987.0	972.5	989.7	1011	972.3	0- 10	98.42	98.42	6.72,5.47
20	812.3	835.4	872.9	850.8	822.4	850.9	890.2	840.5	10- 20	255.2	353.7	24.2,19.6
30	717.9	735.1	772.3	753.0	715.3	736.3	777.0	748.7	20- 30	367.2	720.9	49.2,40
40	535.9	568.3	645.8	595.2	543.4	584.1	641.6	595.6	30- 40	425.3	1146	78.3,63.7
50	119.9	98.98	95.50	121.5	161.8	130.6	112.1	103.3	40- 50	272.8	1419	96.9,78.8
60	12.84	13.94	13.78	15.71	17.37	16.25	14.15	13.04	50- 60	38.71	1458	99.5,81
70	0.1582	0.0593	0.1385	0.0592	0.5481	0.1559	0.0692	0.1286	60- 70	6.458	1464	100,81.3
80	0.0989	0.0593	0.0989	0.0396	0.0692	0.0990	0.0692	0.0989	70- 80	0.0945	1464	100,81.3
90	0.0692	0.0593	0.0494	0.0396	0.0692	0.0791	0.0692	0.0791	80- 90	0.0825	1464	100,81.4
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:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:陈杰梁
 Test Date:2020-07-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
 Humidity:47%
 Test Distance:12.000m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.09V I:0.0726A P:14.641W PF:0.9168 Freq:50.00Hz Lamp Flux:1800x1 lm		
NAME: BE-D2126-15W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BEONE	SUR.:	Shielding Angle:



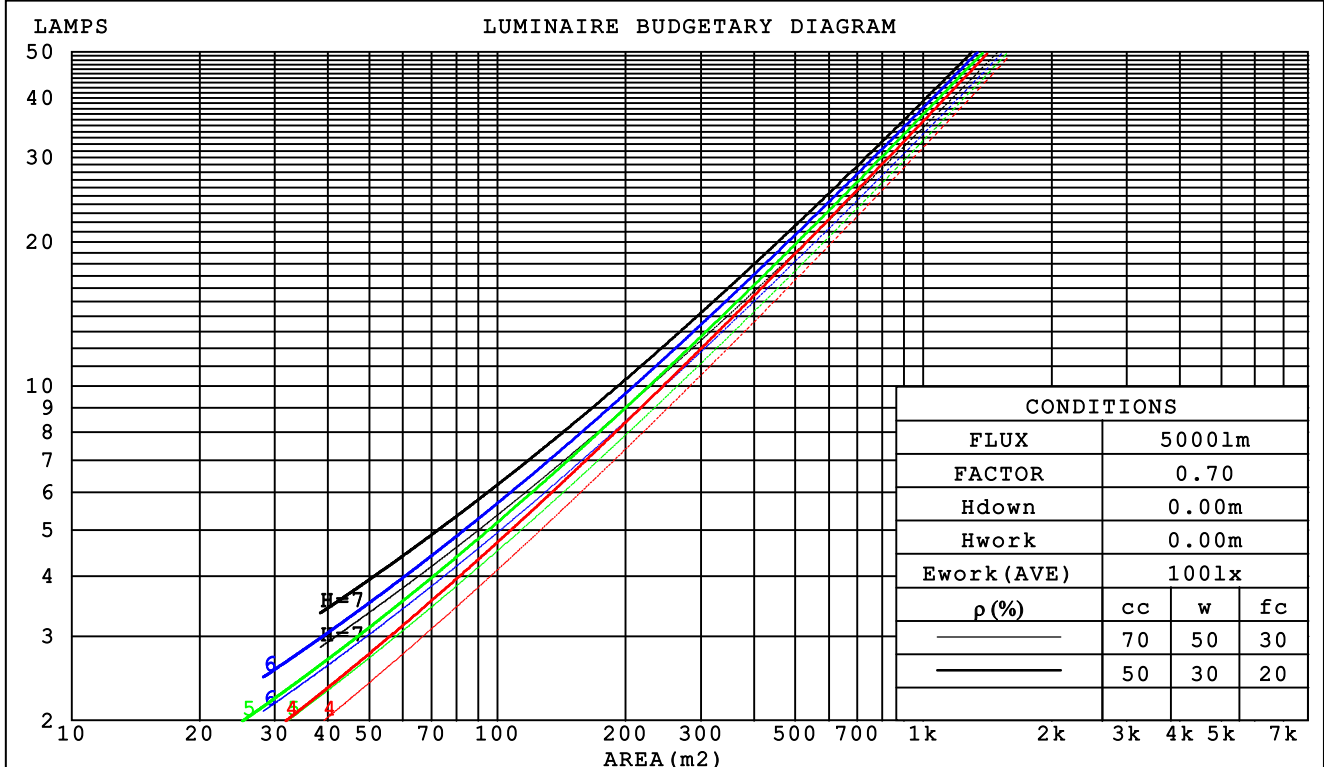
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:24.5DEG
Operators:陈杰梁
Test Date:2020-07-23

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
Humidity:47%
Test Distance:12.000m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.09V I:0.0726A P:14.641W PF:0.9168 Freq:50.00Hz Lamp Flux:1800x1 lm		
NAME: BE-D2126-15W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BEONE	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															



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 Operators: 陈杰梁
 Test Date: 2020-07-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
 Humidity: 47%
 Test Distance: 12.000m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:220.09V I:0.0726A P:14.641W PF:0.9168 Freq:50.00Hz Lamp Flux:1800x1 lm					
NAME: BE-D2126-15W-3000K			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.: BEONE			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	.162	.092	.029	.157	.089	.028	.147	.084	.027	.137	.079	.025	.128	.074	.024	
2.0	.159	.087	.027	.154	.085	.026	.145	.081	.025	.137	.077	.024	.129	.073	.023	
3.0	.153	.081	.024	.149	.080	.024	.141	.076	.023	.134	.073	.023	.127	.071	.022	
4.0	.146	.076	.022	.143	.075	.022	.136	.072	.022	.130	.070	.021	.124	.067	.021	
5.0	.140	.071	.021	.137	.070	.020	.131	.068	.020	.125	.066	.020	.120	.064	.019	
6.0	.133	.067	.019	.131	.066	.019	.125	.064	.019	.121	.063	.018	.116	.061	.018	
7.0	.127	.063	.018	.125	.062	.018	.120	.061	.018	.116	.059	.017	.112	.058	.017	
8.0	.122	.059	.017	.119	.059	.017	.115	.058	.016	.111	.056	.016	.108	.055	.016	
9.0	.116	.056	.016	.114	.056	.016	.111	.055	.015	.107	.054	.015	.104	.053	.015	
10.0	.111	.053	.015	.109	.053	.015	.106	.052	.015	.103	.051	.015	.100	.050	.014	

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	.155	.155	.155	.132	.132	.132	.090	.090	.090	.052	.052	.052	.017	.017	.017	
1.0	.140	.128	.116	.120	.110	.100	.082	.075	.069	.047	.044	.040	.015	.014	.013	
2.0	.130	.108	.089	.111	.093	.077	.076	.064	.054	.044	.037	.032	.014	.012	.010	
3.0	.121	.093	.070	.104	.080	.061	.071	.055	.043	.041	.032	.025	.013	.011	.008	
4.0	.114	.081	.056	.098	.070	.049	.067	.049	.034	.039	.029	.020	.012	.009	.007	
5.0	.107	.072	.045	.092	.062	.040	.064	.043	.028	.037	.025	.017	.012	.008	.005	
6.0	.102	.065	.038	.088	.056	.033	.061	.039	.023	.035	.023	.014	.011	.008	.005	
7.0	.097	.059	.032	.084	.051	.028	.058	.036	.020	.034	.021	.012	.011	.007	.004	
8.0	.093	.054	.027	.080	.047	.024	.055	.033	.017	.032	.019	.010	.010	.006	.003	
9.0	.089	.050	.023	.076	.043	.020	.053	.030	.015	.031	.018	.009	.010	.006	.003	
10.0	.085	.046	.021	.073	.040	.018	.051	.028	.013	.030	.017	.008	.010	.005	.003	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:陈杰梁
 Test Date:2020-07-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
 Humidity:47%
 Test Distance:12.000m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.09V I:0.0726A P:14.641W PF:0.9168 Freq:50.00Hz Lamp Flux:1800x1 lm										
NAME: BE-D2126-15W-3000K					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: BEONE					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	20.0	21.2	20.3	21.3	21.5	20.4	21.5	20.6	21.7	21.8
3H	19.8	20.9	20.1	21.1	21.3	20.2	21.2	20.4	21.4	21.6
4H	19.8	20.7	20.0	20.9	21.2	20.1	21.1	20.4	21.3	21.5
6H	19.7	20.6	20.0	20.8	21.1	20.0	20.9	20.3	21.1	21.4
8H	19.6	20.5	19.9	20.7	21.0	19.9	20.8	20.3	21.1	21.3
12H	19.6	20.4	19.9	20.7	21.0	19.9	20.7	20.2	21.0	21.3
4H 2H	19.8	20.7	20.0	21.0	21.2	20.1	21.1	20.4	21.3	21.5
3H	19.6	20.4	19.9	20.7	21.0	19.9	20.7	20.2	21.0	21.3
4H	19.5	20.2	19.8	20.5	20.8	19.8	20.6	20.2	20.9	21.2
6H	19.4	20.0	19.8	20.4	20.7	19.7	20.4	20.1	20.7	21.1
8H	19.3	19.9	19.7	20.3	20.7	19.7	20.3	20.1	20.6	21.0
12H	19.3	19.8	19.7	20.2	20.6	19.6	20.2	20.0	20.5	20.9
8H 4H	19.3	19.9	19.7	20.3	20.7	19.7	20.3	20.1	20.6	21.0
6H	19.2	19.7	19.7	20.1	20.5	19.6	20.1	20.0	20.5	20.9
8H	19.2	19.6	19.6	20.0	20.5	19.5	20.0	20.0	20.4	20.8
12H	19.1	19.5	19.6	20.0	20.4	19.5	19.8	20.0	20.3	20.8
12H 4H	19.3	19.8	19.7	20.2	20.6	19.6	20.2	20.0	20.5	20.9
6H	19.2	19.6	19.6	20.0	20.5	19.5	20.0	20.0	20.4	20.8
8H	19.1	19.5	19.6	20.0	20.4	19.5	19.8	20.0	20.3	20.8
Variations with the observer position at spacings:										
S = 1.0H	+ 2.9 / -14.4					+ 2.7 / -15.1				
1.5H	+ 3.4 / -12.1					+ 3.8 / -12.5				
2.0H	+ 7.6 / -13.4					+ 7.8 / -13.0				

CIE Pub.117, 1800 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 2.0$)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 Operators: 陈杰梁
 Test Date: 2020-07-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
 Humidity: 47%
 Test Distance: 12.000m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.09V I:0.0726A P:14.641W PF:0.9168 Freq:50.00Hz Lamp Flux:1800x1 lm		
NAME: BE-D2126-15W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BEONE	SUR.:	Shielding Angle:

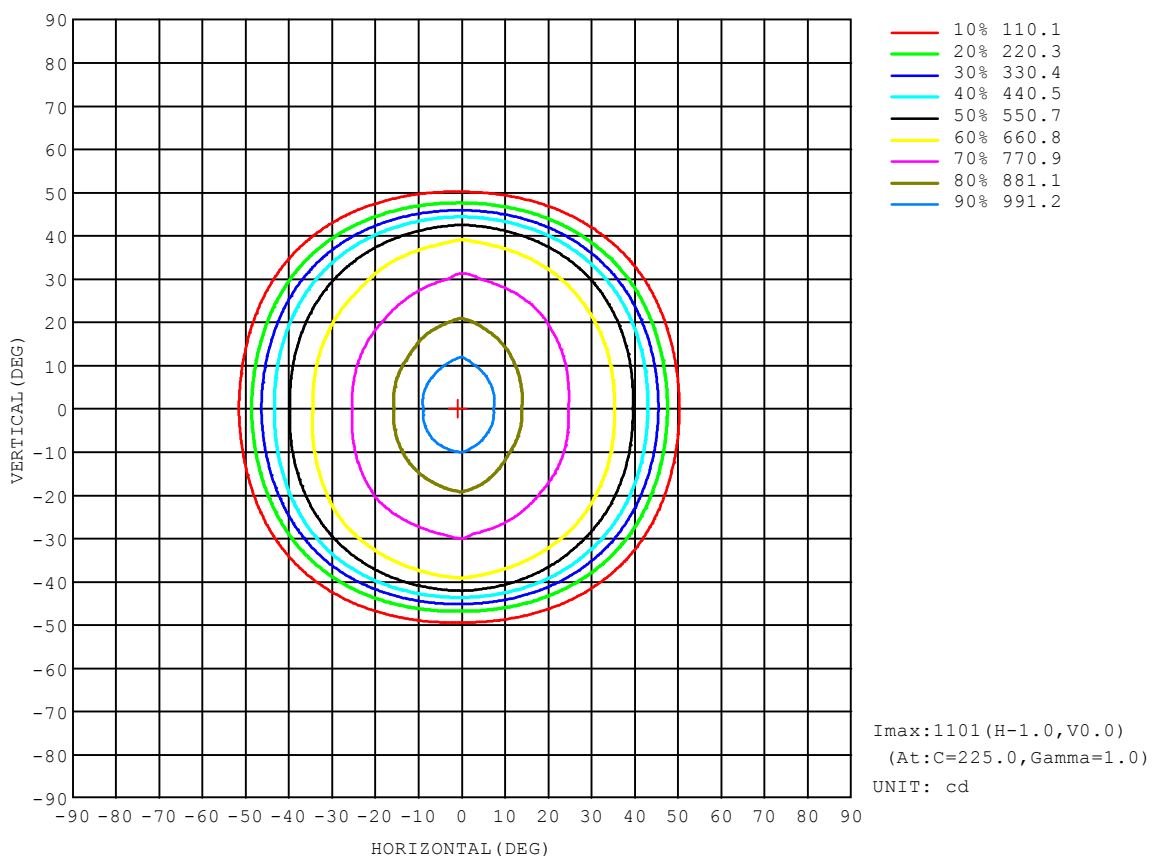
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	63	57	53	63	57	53	62	56	53	49
0.80	71	65	61	70	64	61	69	64	60	56
1.00	76	70	67	75	70	66	74	70	66	62
1.25	80	75	72	79	75	71	78	74	71	67
1.50	83	78	75	82	78	75	80	76	74	70
2.00	86	82	79	85	81	79	83	80	77	73
2.50	88	84	81	87	83	81	84	81	79	74
3.00	89	86	84	88	85	83	85	83	81	75
4.00	91	89	86	90	87	85	87	85	83	77
5.00	92	90	88	91	89	87	87	86	84	78
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:24.5DEG
Operators:陈杰梁
Test Date:2020-07-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
Humidity:47%
Test Distance:12.000m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.09V I:0.0726A P:14.641W PF:0.9168 Freq:50.00Hz Lamp Flux:1800x1 lm		
NAME: BE-D2126-15W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BEONE	SUR.:	Shielding Angle:

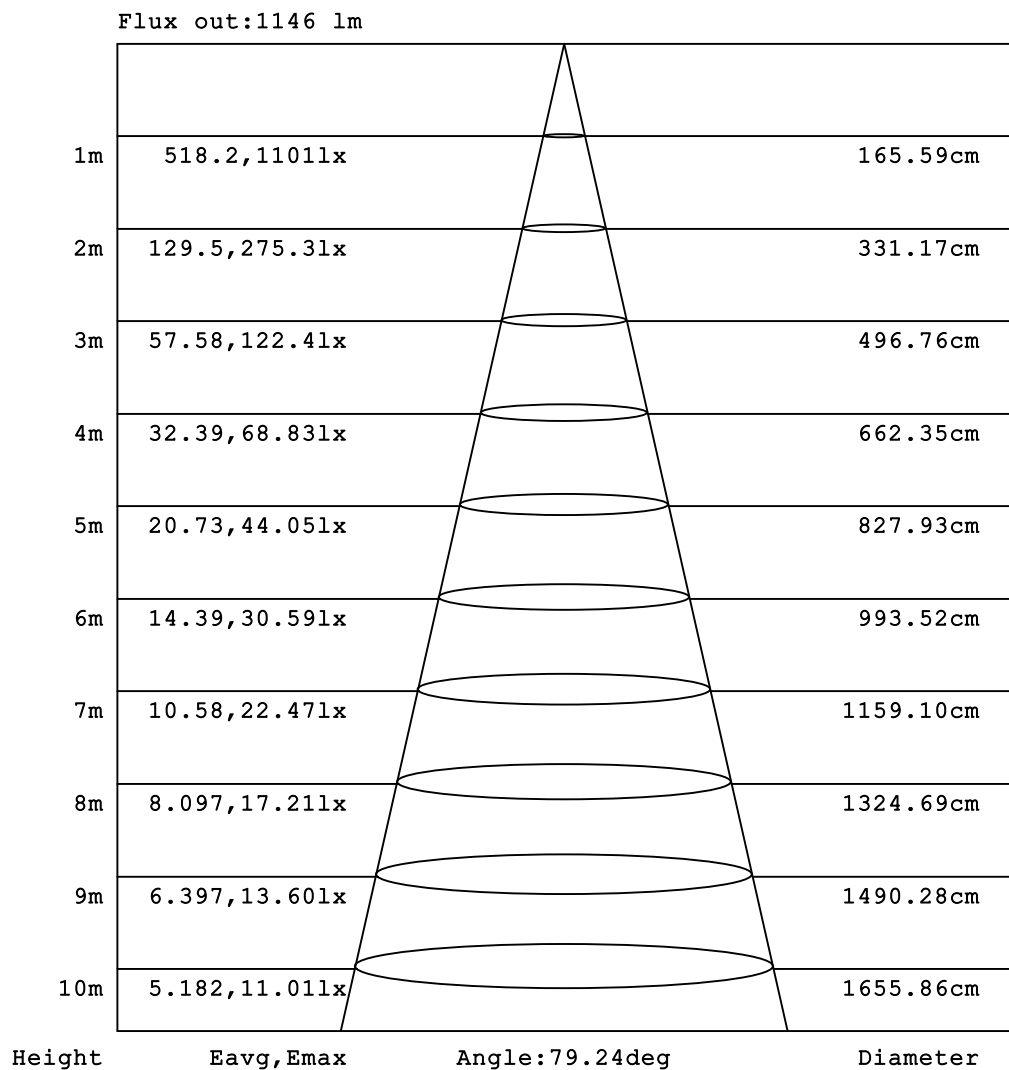


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:24.5DEG
Operators:陈杰梁
Test Date:2020-07-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
Humidity:47%
Test Distance:12.000m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.09V I:0.0726A P:14.641W PF:0.9168 Freq:50.00Hz Lamp Flux:1800x1 lm		
NAME: BE-D2126-15W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BEONE	SUR.:	Shielding Angle:



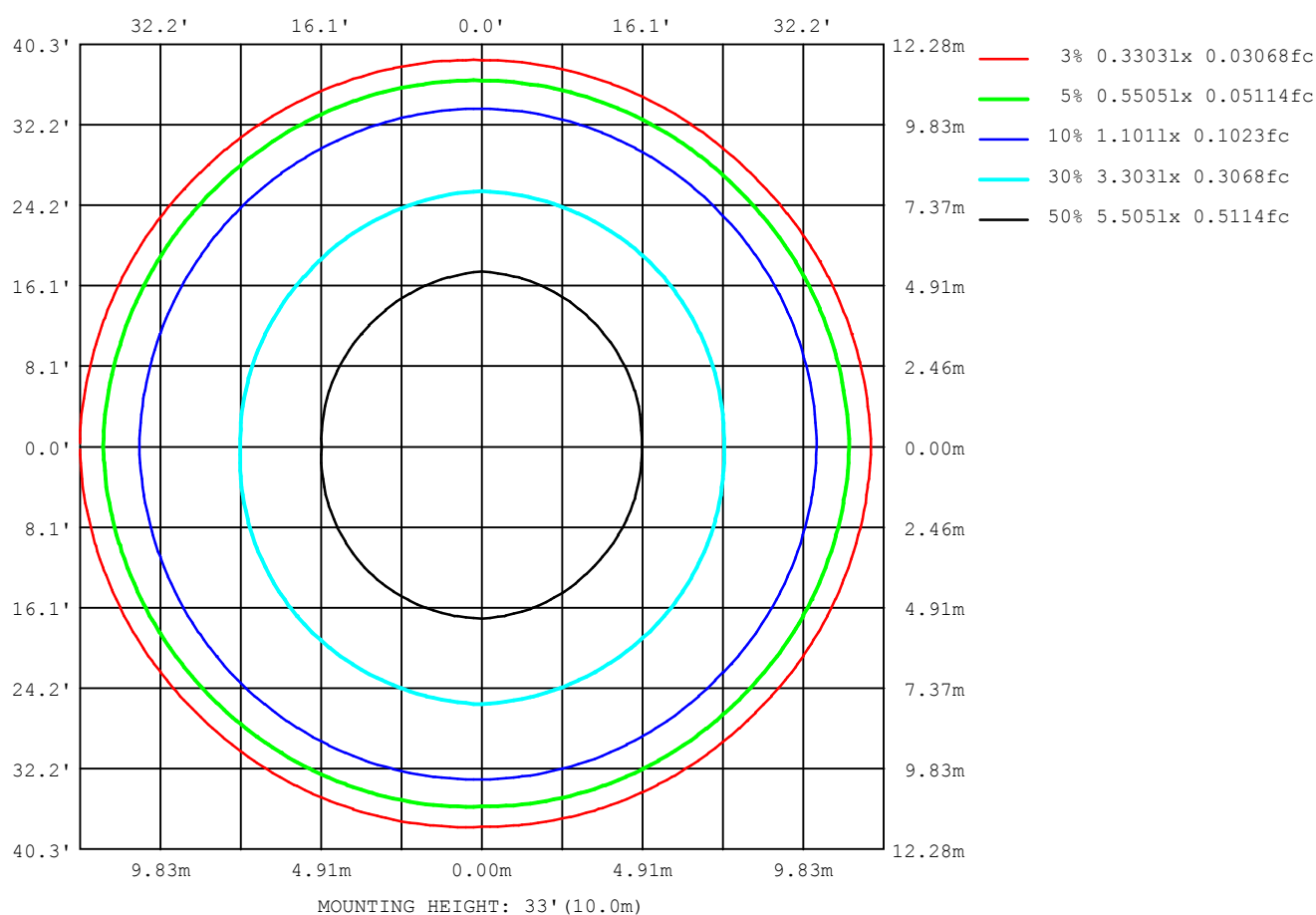
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 Operators: 陈杰梁
 Test Date: 2020-07-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
 Humidity: 47%
 Test Distance: 12.000m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:220.09V I:0.0726A P:14.641W PF:0.9168 Freq:50.00Hz Lamp Flux:1800x1 lm		
NAME: BE-D2126-15W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BEONE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 24.5DEG
Operators: 陈杰梁
Test Date: 2020-07-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
Humidity: 47%
Test Distance: 12.000m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:220.09V I:0.0726A P:14.641W PF:0.9168 Freq:50.00Hz Lamp Flux:1800x1 lm		
NAME: BE-D2126-15W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BEONE	SUR.:	Shielding Angle:

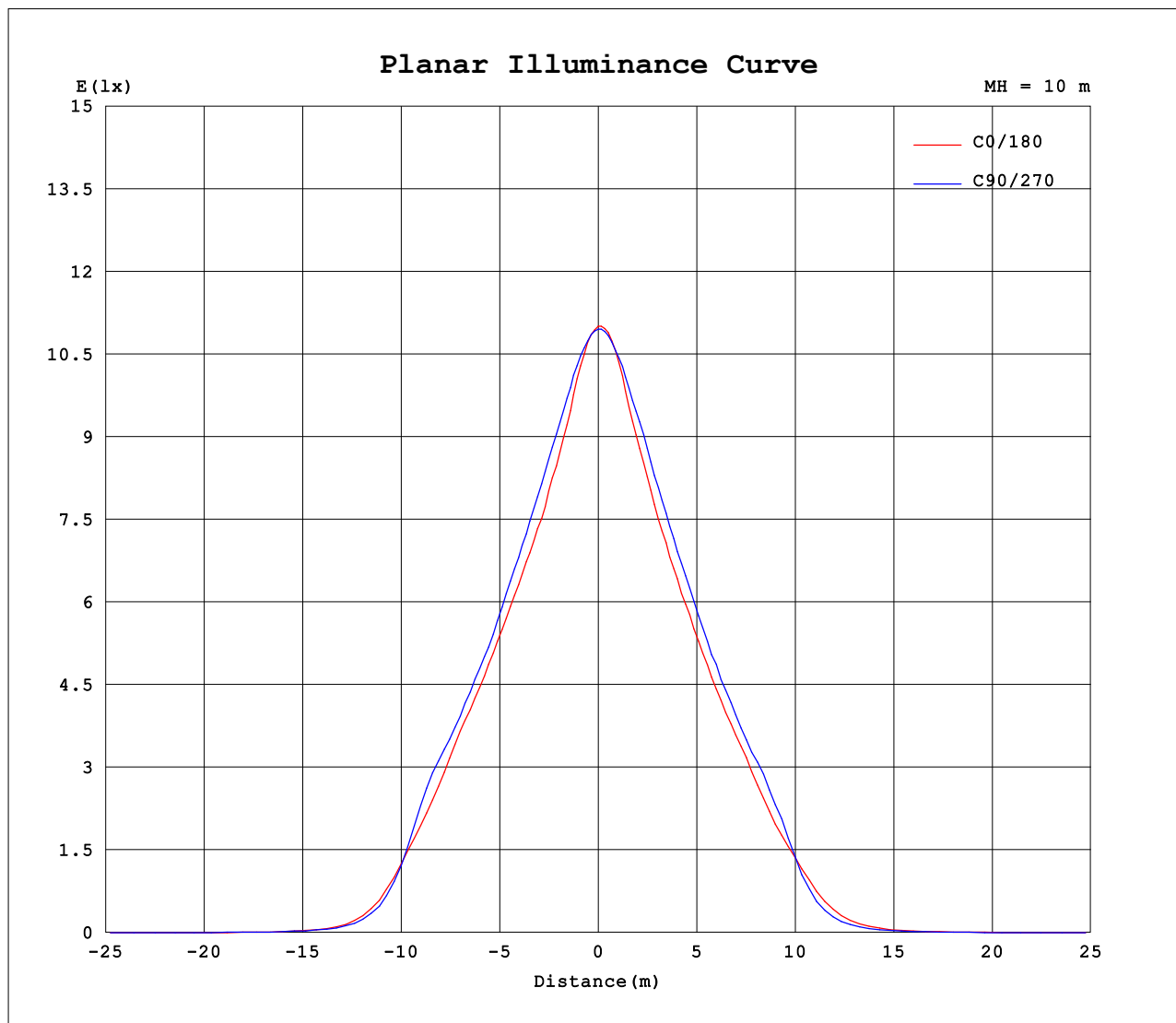
AvgL	cd/m2
L_0~180 (65) av	1800
L_0~180 (75) av	36
L_0~180 (85) av	96
L_90~270 (65) av	1367
L_90~270 (75) av	32
L_90~270 (85) av	91
L_45 (65) av	1464
L_45 (75) av	30
L_45 (85) av	82

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 Operators: 陈杰梁
 Test Date: 2020-07-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
 Humidity: 47%
 Test Distance: 12.000m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 24.5DEG
Operators: 陈杰梁
Test Date: 2020-07-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
Humidity: 47%
Test Distance: 12.000m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
Humidity:47%
Test Distance:12.000m [K=1.0000]
Remarks:

```