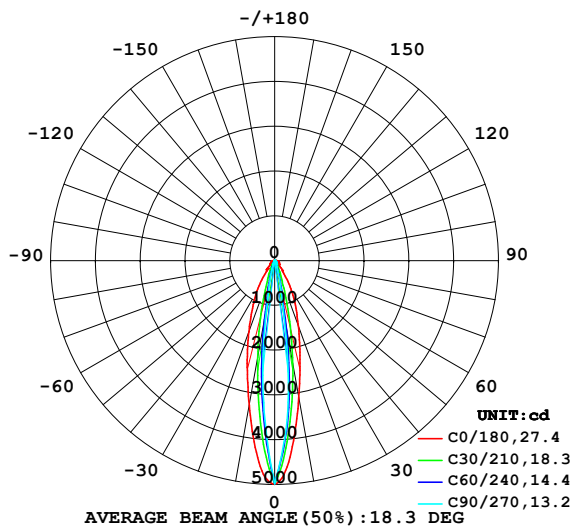


LUMINAIRE PHOTOMETRIC TEST REPORT

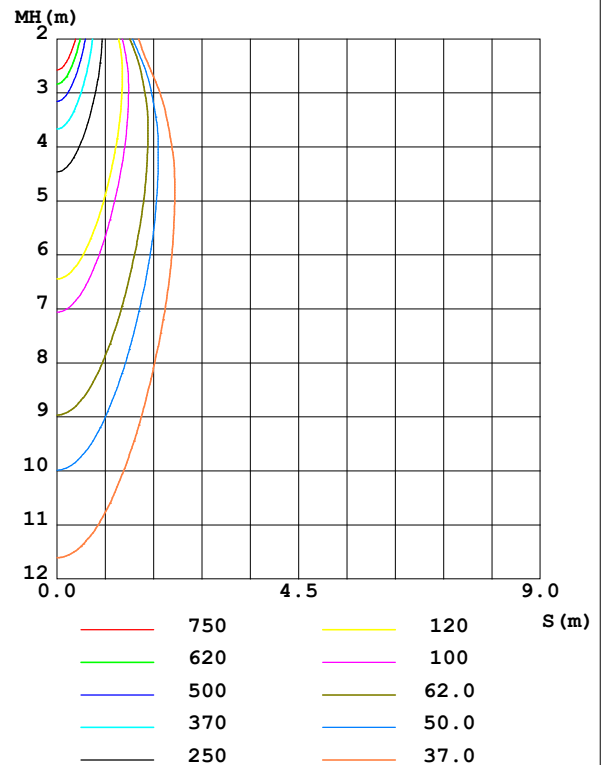
NAME: BL7069-LV-C15-3-3012	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 56.29 lm/W
MODEL		I _{max} (cd)	4986	S/MH(C0/180)		0.44
NOMINAL POWER(W)	15	LOR(%)	46.9	S/MH(C90/270)		0.25
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	844.39	η UP,DN(C0-180)		0.0,24.4
NOMINAL FLUX(lm)	1800	CIE CLASS	DIRECT	η UP,DN(C180-360)		0.0,22.5
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM		0.00
TEST VOLTAGE(V)	24	η down (%)	46.9	CIBSE SHR MAX		0.25

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3℃
Operators:
Test Date:

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:10.650m [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	3115	1906	1073	1948	3280	1734	927.2	1637	0- 10	286.1	286.1	33.9,15.9
20	1555	284.6	160.4	287.7	1691	270.2	133.9	242.7	10- 20	271.4	557.4	66,31
30	732.7	81.47	59.49	84.47	815.7	74.91	52.95	67.64	20- 30	141.8	699.2	82.8,38.8
40	269.6	34.02	30.69	37.43	223.9	33.28	29.47	29.02	30- 40	66.53	765.7	90.7,42.5
50	124.5	15.98	14.71	17.79	129.5	16.13	13.09	13.86	40- 50	32.55	798.3	94.5,44.3
60	82.96	7.203	6.450	7.993	102.5	6.931	4.719	5.799	50- 60	18.91	817.2	96.8,45.4
70	87.74	4.320	3.740	4.646	76.91	3.533	2.246	3.219	60- 70	13.27	830.5	98.4,46.1
80	59.65	2.700	2.685	2.894	50.94	1.728	1.398	1.663	70- 80	10.31	840.8	99.6,46.7
90	2.044	0	0	0	1.602	0	0	0	80- 90	3.609	844.4	100,46.9
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		

Conical surface Flux(90deg): 784.88 lm

%lum = 93.0%

%lamp = 43.6%

Conical surface Flux(120deg): 817.2 lm

%lum = 96.8%

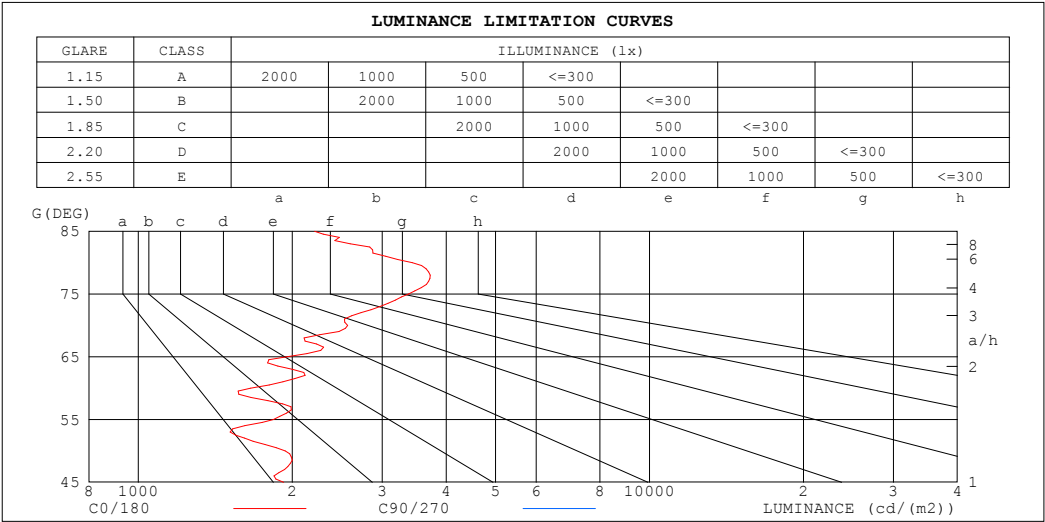
%lamp = 45.4%

H(β) Range:-90 - 90DEG
 H(β) Interval: 0.5DEG
 Test Speed: MEDIUM
 Temperature:25.3°C
 Operators:
 Test Date:

V(B) Range:-85 - 85DEG
 V(B) Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
 Humidity:65.0%
 Test Distance:10.650m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

NAME: BL7069-LV-C15-3-3012	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



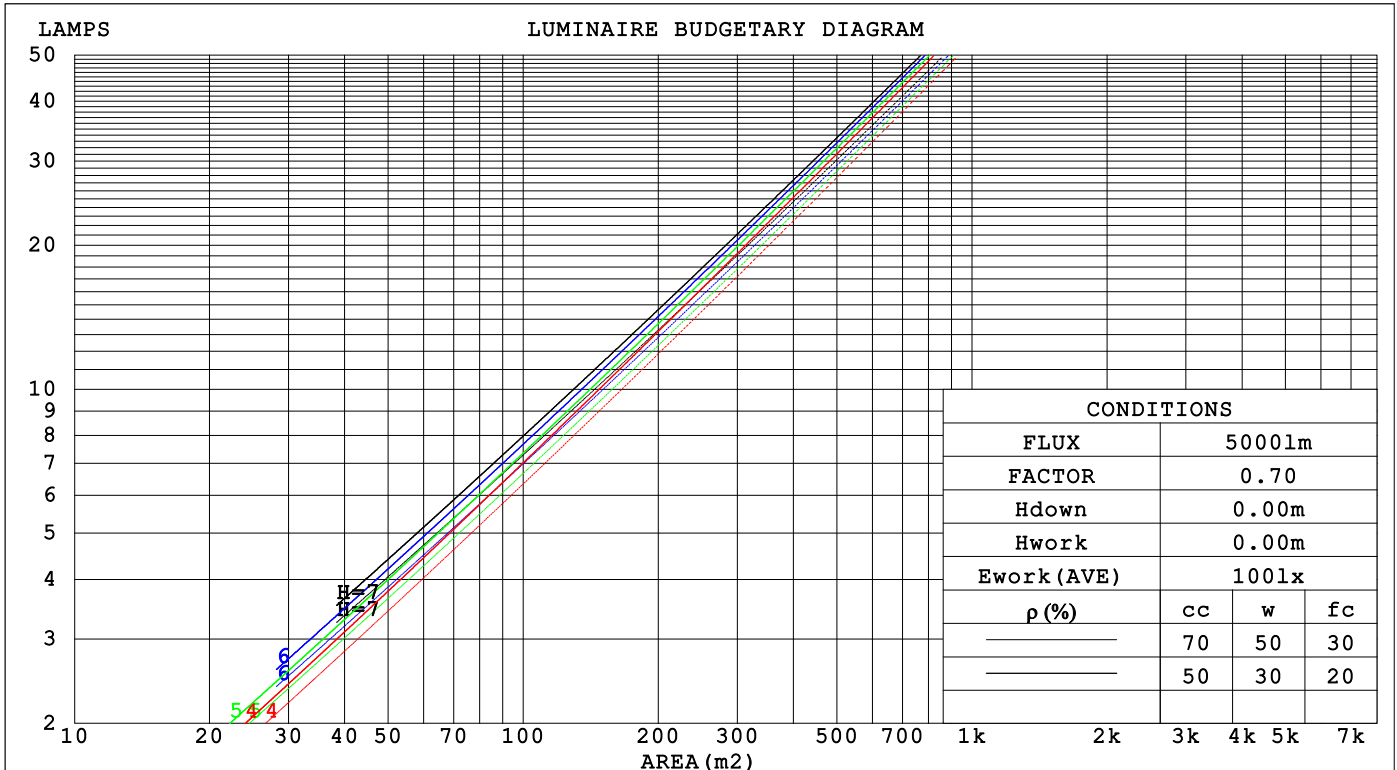
LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2212	116
80	3435	155
75	3374	124
70	2565	109
65	1952	114
60	1659	129
55	1837	170
50	1936	229
45	1924	309

H(β) Range:-90 - 90DEG	V(B) Range:-85 - 85DEG
H(β) Interval: 0.5DEG	V(B) Interval: 2.0DEG
Test Speed: MEDIUM	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Temperature:25.3°C	Humidity:65.0%
Operators:	Test Distance:10.650m [K=1.0000]
Test Date:	Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: BL7069-LV-C15-3-3012	TYPE:	WEIGHT:
SPEC.:	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															



H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:10.650m [K=1.0000]
Remarks:

WEC AND CCEC

NAME: BL7069-LV-C15-3-3012	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	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	.077	.044	.014	.074	.042	.013	.068	.039	.012	.062	.036	.012	.058	.033	.011															
2.0	.071	.039	.012	.069	.038	.012	.064	.036	.011	.059	.033	.010	.055	.031	.010															
3.0	.066	.035	.011	.064	.034	.010	.060	.033	.010	.056	.031	.009	.053	.029	.009															
4.0	.062	.032	.009	.060	.031	.009	.056	.030	.009	.053	.029	.009	.050	.027	.008															
5.0	.058	.030	.009	.056	.029	.008	.053	.028	.008	.051	.027	.008	.048	.026	.008															
6.0	.055	.027	.008	.053	.027	.008	.051	.026	.008	.048	.025	.007	.046	.024	.007															
7.0	.052	.025	.007	.050	.025	.007	.048	.024	.007	.046	.024	.007	.044	.023	.007															
8.0	.049	.024	.007	.048	.024	.007	.046	.023	.007	.044	.022	.006	.042	.022	.006															
9.0	.046	.022	.006	.045	.022	.006	.044	.022	.006	.042	.021	.006	.040	.021	.006															
10.0	.044	.021	.006	.043	.021	.006	.042	.020	.006	.040	.020	.006	.039	.020	.006															

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	.089	.089	.089	.076	.076	.076	.052	.052	.052	.030	.030	.030	.010	.010	.010	
1.0	.080	.074	.068	.068	.063	.059	.047	.044	.041	.027	.025	.024	.009	.008	.008	
2.0	.072	.062	.054	.062	.054	.047	.042	.037	.033	.024	.022	.019	.008	.007	.006	
3.0	.066	.053	.043	.056	.046	.038	.039	.032	.026	.022	.019	.016	.007	.006	.005	
4.0	.060	.046	.036	.051	.040	.031	.035	.028	.022	.020	.016	.013	.007	.005	.004	
5.0	.055	.041	.030	.047	.035	.026	.033	.024	.018	.019	.014	.011	.006	.005	.004	
6.0	.051	.036	.025	.044	.031	.022	.030	.022	.015	.018	.013	.009	.006	.004	.003	
7.0	.048	.032	.021	.041	.028	.019	.028	.020	.013	.016	.012	.008	.005	.004	.003	
8.0	.045	.029	.018	.038	.025	.016	.027	.018	.011	.015	.010	.007	.005	.003	.002	
9.0	.042	.026	.016	.036	.023	.014	.025	.016	.010	.015	.010	.006	.005	.003	.002	
10.0	.040	.024	.014	.034	.021	.012	.024	.015	.009	.014	.009	.005	.004	.003	.002	

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:10.650m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

NAME: BL7069-LV-C15-3-3012					TYPE:					WEIGHT:				
SPEC.:					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	8.0	8.7	8.2	8.9	9.1	-3.0	-2.2	-2.8	-2.0	-1.9				
3H	10.3	11.0	10.5	11.2	11.4	-2.5	-1.8	-2.3	-1.6	-1.4				
4H	12.3	13.0	12.5	13.2	13.4	-2.2	-1.5	-1.9	-1.3	-1.0				
6H	14.3	15.0	14.6	15.2	15.4	-1.7	-1.1	-1.4	-0.8	-0.6				
8H	14.8	15.5	15.1	15.7	16.0	-1.5	-0.8	-1.2	-0.6	-0.3				
12H	15.1	15.8	15.5	16.0	16.3	-1.3	-0.7	-1.0	-0.4	-0.1				
4H 2H	7.7	8.4	8.0	8.7	8.9	-2.7	-2.0	-2.4	-1.8	-1.6				
3H	10.0	10.6	10.3	10.9	11.2	-2.1	-1.5	-1.8	-1.2	-0.9				
4H	12.0	12.6	12.4	12.9	13.2	-1.6	-1.1	-1.3	-0.8	-0.5				
6H	14.1	14.6	14.5	14.9	15.3	-1.1	-0.6	-0.7	-0.2	0.1				
8H	14.7	15.2	15.1	15.5	15.9	-0.7	-0.3	-0.3	0.1	0.4				
12H	15.1	15.5	15.5	15.9	16.3	-0.5	-0.1	-0.1	0.3	0.7				
8H 4H	11.9	12.4	12.3	12.7	13.1	-1.3	-0.8	-0.9	-0.5	-0.1				
6H	14.0	14.4	14.4	14.8	15.2	-0.6	-0.2	-0.1	0.2	0.6				
8H	14.6	14.9	15.0	15.3	15.8	-0.2	0.2	0.3	0.6	1.0				
12H	15.0	15.3	15.4	15.7	16.2	0.2	0.5	0.6	0.9	1.4				
12H 4H	11.8	12.3	12.3	12.6	13.0	-1.1	-0.7	-0.7	-0.3	0.0				
6H	13.9	14.3	14.4	14.7	15.1	-0.4	-0.0	0.1	0.4	0.8				
8H	14.5	14.8	15.0	15.2	15.7	0.1	0.4	0.5	0.8	1.3				
Variations with the observer position at spacings(CIE Pub.117):														
S = 1.0H	+ 1.4 / - 1.0					+ 0.6 / - 0.8								
1.5H	+ 3.0 / - 2.8					+ 0.6 / - 0.5								
2.0H	+ 3.3 / - 4.4					+ 1.2 / - 0.7								

CIE Pub.117, 1800 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.0)
Area: 0.1 m2

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:10.650m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: BL7069-LV-C15-3-3012	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

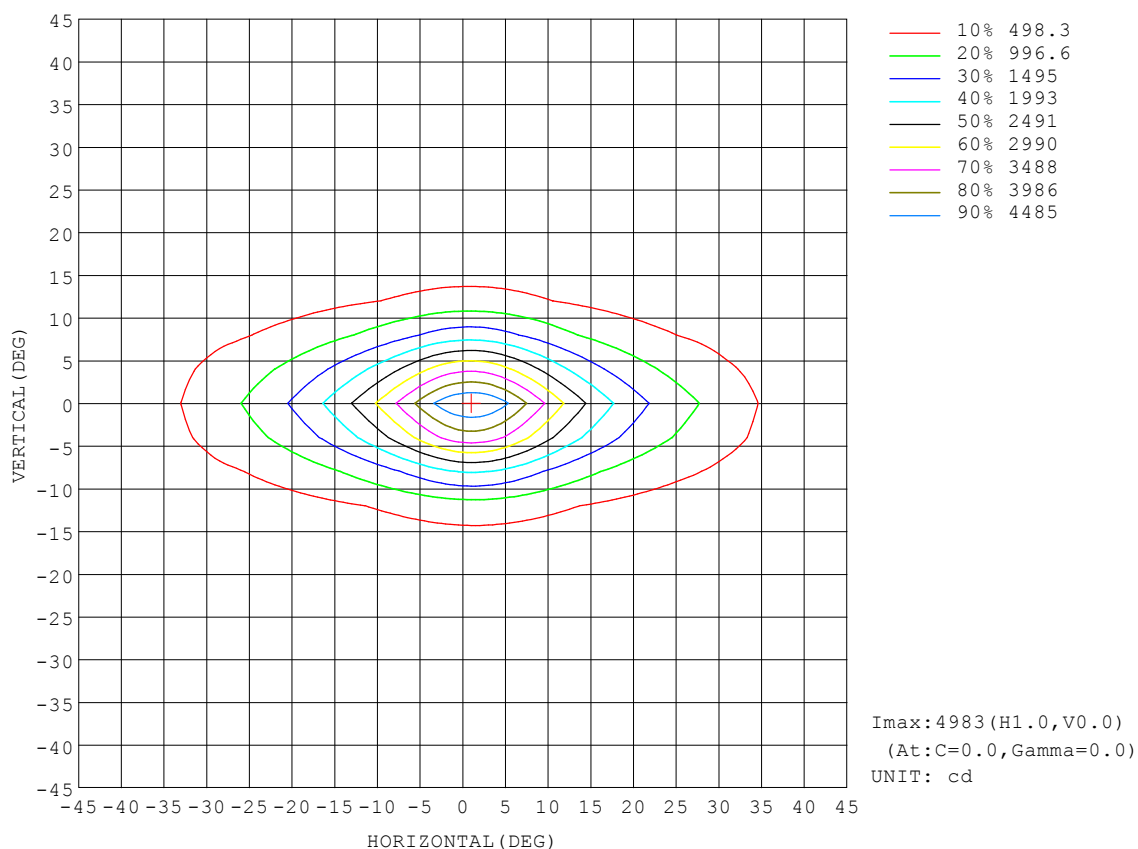
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	40	37	35	40	37	35	40	37	35	33
0.80	44	41	39	43	41	39	43	40	39	37
1.00	46	43	41	45	43	41	45	43	41	39
1.25	48	45	43	47	45	43	46	44	43	41
1.50	49	47	45	49	46	45	47	46	44	42
2.00	50	48	47	50	48	46	48	47	46	43
2.50	51	49	48	51	49	47	49	48	47	44
3.00	52	50	49	51	50	48	50	48	47	44
4.00	53	52	51	52	51	50	50	49	49	45
5.00	54	53	52	53	52	51	51	50	49	46
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

$H(\beta)$ Range:-90 - 90DEG
 $H(\beta)$ Interval: 0.5DEG
 Test Speed: MEDIUM
 Temperature:25.3°C
 Operators:
 Test Date:

$V(B)$ Range:-85 - 85DEG
 $V(B)$ Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
 Humidity:65.0%
 Test Distance:10.650m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

NAME: BL7069-LV-C15-3-3012	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

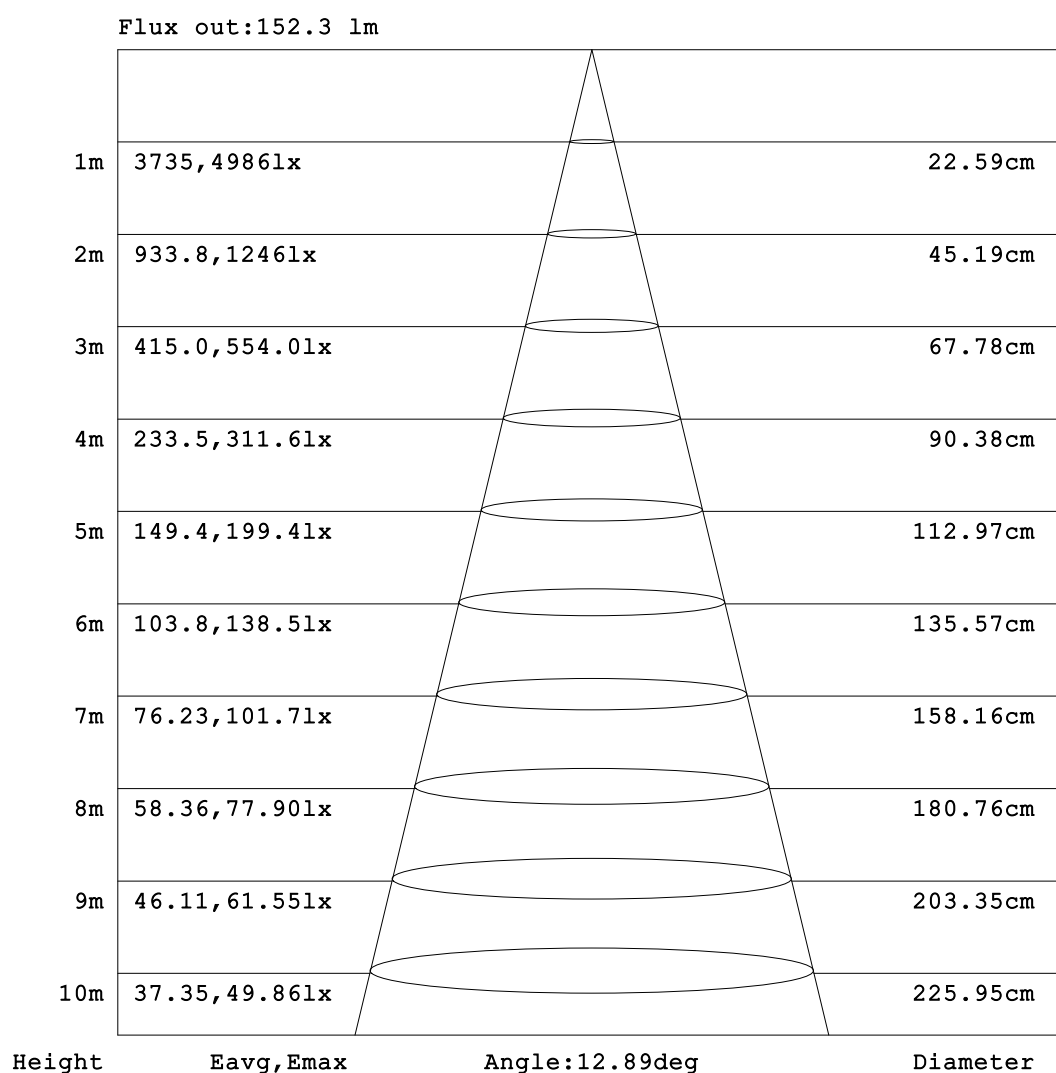


H(β) Range: -90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date:

V(B) Range: -85 - 85DEG
V(B) Interval: 2.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity: 65.0%
Test Distance: 10.650m [K=1.0000]
Remarks:

AAI Figure

NAME: BL7069-LV-C15-3-3012	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



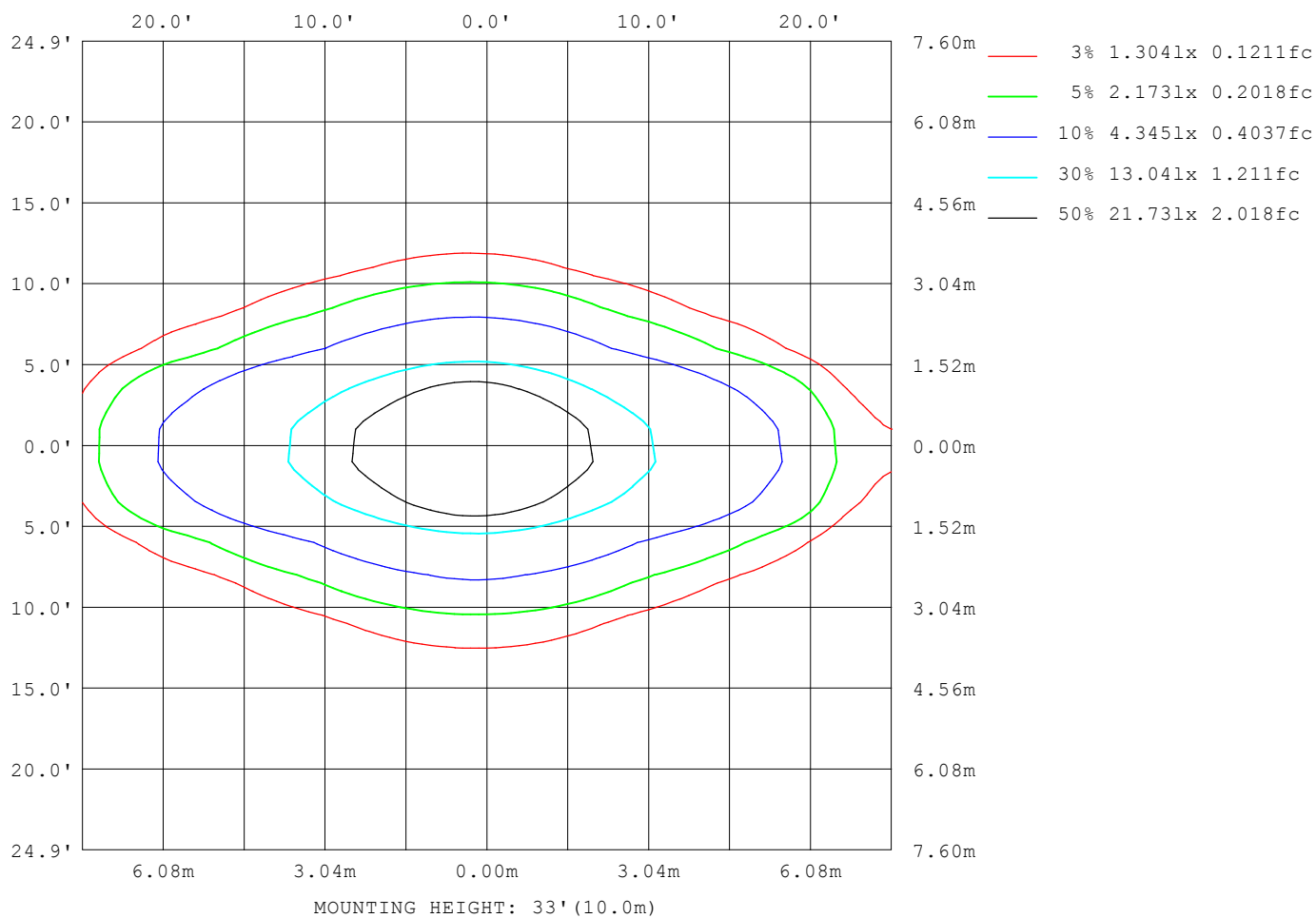
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:10.650m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

NAME: BL7069-LV-C15-3-3012	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:10.650m [K=1.0000]
Remarks:

LED Avg.L Report

NAME: BL7069-LV-C15-3-3012	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

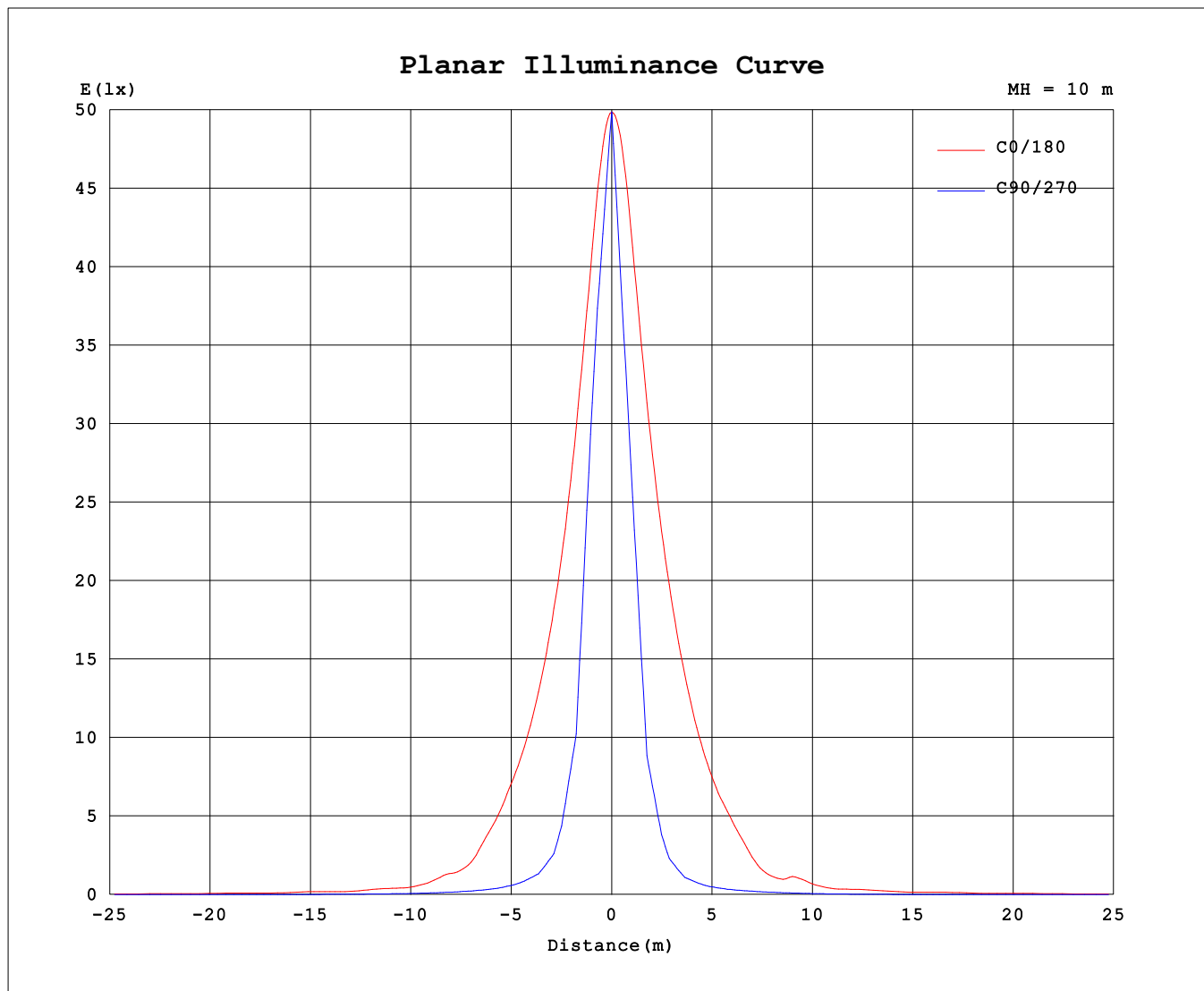
AvgL	cd/m2
L_0~180 (65) av	2105
L_0~180 (75) av	2944
L_0~180 (85) av	2596
L_90~270 (65) av	95
L_90~270 (75) av	96
L_90~270 (85) av	90
L_45 (65) av	119
L_45 (75) av	117
L_45 (85) av	156

Standard: GB/T 29293-2012

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3℃
Operators:
Test Date:

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:10.650m [K=1.0000]
Remarks:

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:10.650m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: BL7069-LV-C15-3-3012	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

[illegible]

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:10.650m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: BL7069-IV-C15-3-3012	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--3

UNIT: cd

[illegible]

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:10.650m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: BL7069-LV-C15-3-3012	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--4

UNIT: cd

[illegible]

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:10.650m [K=1.0000]
Remarks: