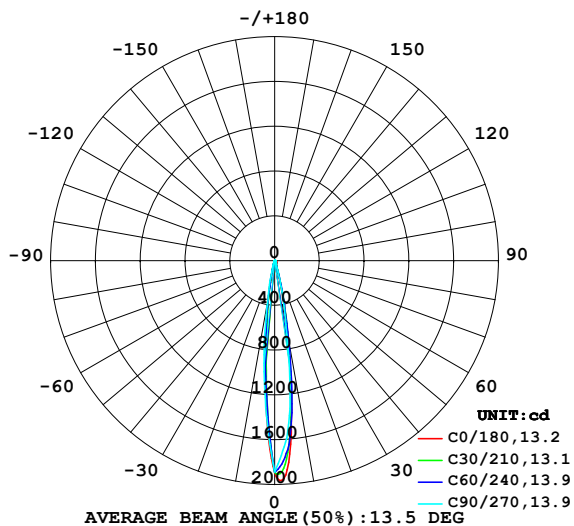


LUMINAIRE PHOTOMETRIC TEST REPORT

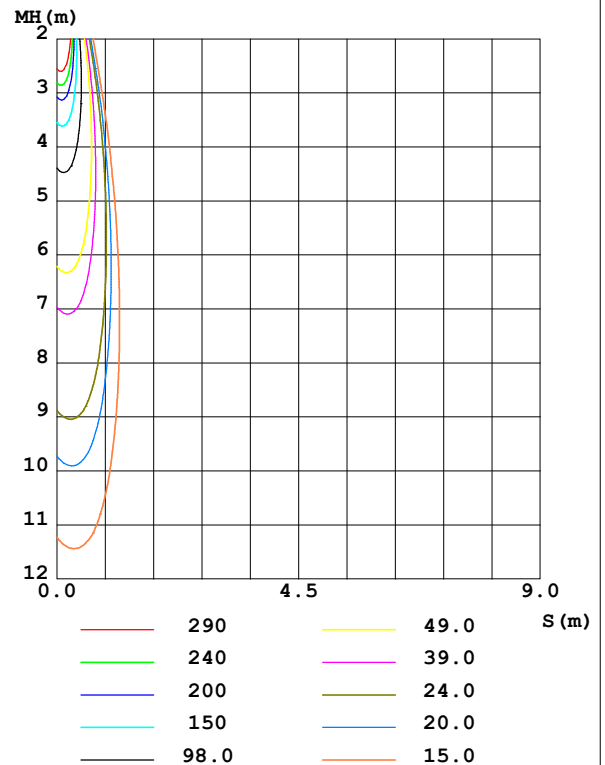
NAME: BL7158-C3-3-15	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 51.40 lm/W
MODEL		Imax (cd)	1965	S/MH(C0/180)	0.30	
NOMINAL POWER(W)	3	LOR(%)	44.5	S/MH(C90/270)	0.28	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	160.35	η UP,DN(C0-180)	0.0,24.6	
NOMINAL FLUX(lm)	360	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,20.0	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE(V)	220.1	η down (%)	44.5	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°C
Operators:ZT
Test Date:2023-11-08

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:10.722m [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	680.8	744.8	577.4	403.1	305.9	307.0	344.4	534.6	0- 10	93.07	93.07	58,25.9
20	54.29	55.45	44.34	33.78	29.07	31.92	34.42	45.20	10- 20	44.50	137.6	85.8,38.2
30	21.38	10.89	10.15	8.883	9.346	9.370	10.34	11.32	20- 30	9.380	147.0	91.6,40.8
40	12.18	5.464	5.089	5.517	7.607	6.610	6.884	6.344	30- 40	5.100	152.1	94.8,42.2
50	6.804	2.931	2.194	2.446	3.037	3.681	4.526	4.546	40- 50	3.991	156.0	97.3,43.3
60	2.447	1.580	1.362	1.354	2.018	1.546	1.743	1.898	50- 60	2.156	158.2	98.7,43.9
70	1.106	0.9526	0.7008	0.5862	1.310	0.5790	0.9171	1.079	60- 70	1.209	159.4	99.4,44.3
80	0.4733	0.5647	0.5895	0.5187	1.022	0.2777	0.3537	0.4083	70- 80	0.6363	160.0	99.8,44.5
90	0.3144	0	0	0	0.4096	0	0	0	80- 90	0.3092	160.4	100,44.5
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): 154.26 lm

%lum = 96.2%

%lamp = 42.8%

Conical surface Flux(120deg): 158.2 lm

%lum = 98.7%

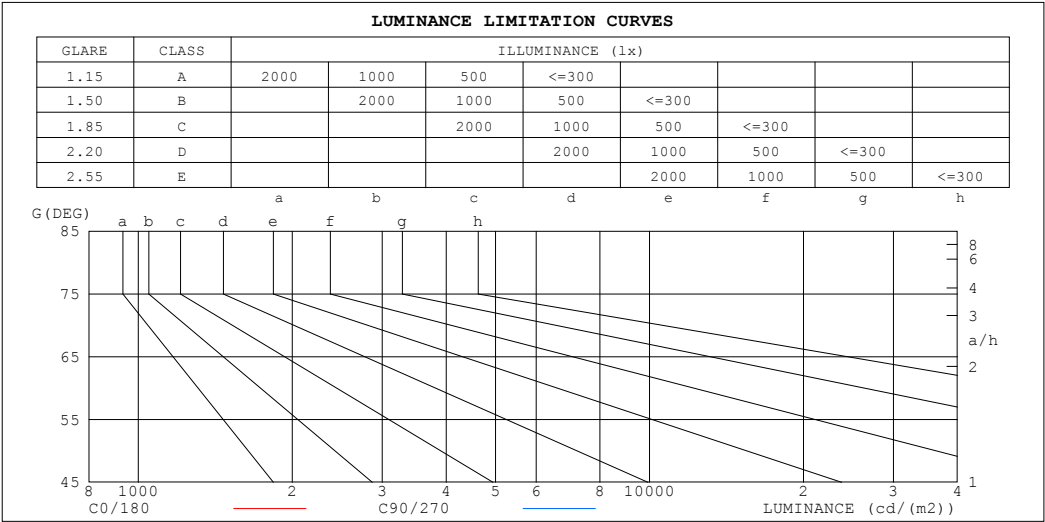
%lamp = 43.9%

H(β) Range:-90 - 90DEG
 H(β) Interval: 0.5DEG
 Test Speed: MEDIUM
 Temperature:25.3°C
 Operators:ZT
 Test Date:2023-11-08

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:10.722m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

NAME: BL7158-C3-3-15	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



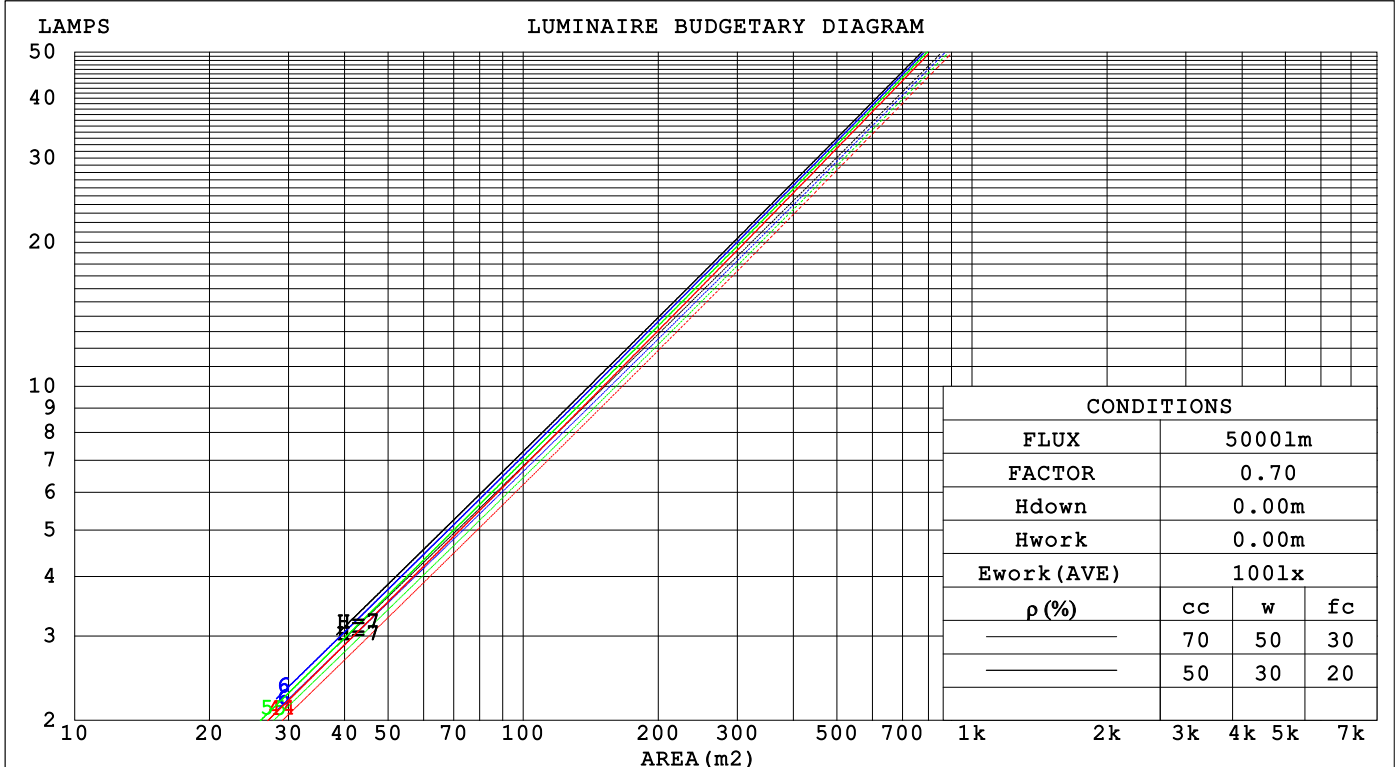
LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	41	29
80	27	34
75	24	24
70	32	20
65	39	26
60	49	27
55	70	30
50	106	34
45	135	54

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:ZT	Test Distance:10.722m [K=1.0000]
Test Date:2023-11-08	Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: BL7158-C3-3-15	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:ZT
Test Date:2023-11-08

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:10.722m [K=1.0000]
Remarks:

WEC AND CCEC

NAME: BL7158-C3-3-15	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	.058 .033 .010	.055 .032 .010	.050 .029 .009	.045 .026 .008	.040 .023 .007	
2.0	.053 .029 .009	.051 .028 .009	.046 .026 .008	.042 .024 .007	.038 .022 .007	
3.0	.049 .026 .008	.047 .025 .008	.043 .023 .007	.040 .022 .007	.036 .020 .006	
4.0	.045 .023 .007	.044 .023 .007	.040 .021 .006	.037 .020 .006	.035 .019 .006	
5.0	.042 .021 .006	.041 .021 .006	.038 .020 .006	.035 .019 .006	.033 .018 .005	
6.0	.039 .020 .006	.038 .019 .006	.036 .018 .005	.034 .017 .005	.032 .017 .005	
7.0	.037 .018 .005	.036 .018 .005	.034 .017 .005	.032 .016 .005	.030 .016 .005	
8.0	.035 .017 .005	.034 .017 .005	.032 .016 .005	.031 .015 .004	.029 .015 .004	
9.0	.033 .016 .004	.032 .016 .004	.031 .015 .004	.029 .015 .004	.028 .014 .004	
10.0	.031 .015 .004	.030 .015 .004	.029 .014 .004	.028 .014 .004	.027 .013 .004	

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	.085 .085 .085	.073 .073 .073	.049 .049 .049	.028 .028 .028	.009 .009 .009	
1.0	.075 .070 .066	.064 .060 .057	.044 .041 .039	.025 .024 .023	.008 .008 .007	
2.0	.066 .059 .053	.057 .051 .046	.039 .035 .032	.023 .020 .019	.007 .007 .006	
3.0	.060 .050 .043	.051 .044 .037	.035 .030 .026	.020 .018 .015	.007 .006 .005	
4.0	.054 .044 .036	.046 .038 .031	.032 .026 .022	.018 .015 .013	.006 .005 .004	
5.0	.049 .038 .030	.042 .033 .026	.029 .023 .018	.017 .013 .011	.005 .004 .004	
6.0	.044 .033 .025	.038 .029 .022	.026 .020 .016	.015 .012 .009	.005 .004 .003	
7.0	.041 .030 .022	.035 .026 .019	.024 .018 .013	.014 .011 .008	.005 .003 .003	
8.0	.038 .027 .019	.032 .023 .016	.022 .016 .012	.013 .010 .007	.004 .003 .002	
9.0	.035 .024 .016	.030 .021 .014	.021 .015 .010	.012 .009 .006	.004 .003 .002	
10.0	.033 .022 .015	.028 .019 .013	.019 .013 .009	.011 .008 .005	.004 .003 .002	

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:ZT
Test Date:2023-11-08

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:10.722m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

NAME: BL7158-C3-3-15					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					-0.6	0.0	-0.4	0.2	0.3	-3.6	-3.1	-3.4	-2.9	-2.8
3H					0.0	0.6	0.3	0.7	0.9	-2.9	-2.4	-2.7	-2.2	-2.0
4H					0.2	0.7	0.4	0.9	1.1	-2.5	-2.0	-2.2	-1.8	-1.6
6H					0.4	0.9	0.7	1.1	1.3	-1.8	-1.3	-1.5	-1.1	-0.9
8H					0.5	1.0	0.8	1.2	1.5	-1.4	-0.9	-1.1	-0.7	-0.4
12H					0.7	1.1	1.0	1.4	1.7	-1.0	-0.5	-0.7	-0.3	0.0
4H 2H					-0.5	0.0	-0.2	0.3	0.5	-3.1	-2.6	-2.9	-2.4	-2.2
3H					0.2	0.7	0.6	1.0	1.2	-2.2	-1.8	-1.9	-1.5	-1.2
4H					0.5	0.9	0.8	1.2	1.5	-1.7	-1.2	-1.3	-0.9	-0.6
6H					0.8	1.2	1.2	1.5	1.9	-0.8	-0.4	-0.4	-0.1	0.2
8H					1.0	1.4	1.4	1.8	2.1	-0.3	0.1	0.1	0.5	0.8
12H					1.4	1.7	1.8	2.1	2.5	0.3	0.6	0.7	1.0	1.3
8H 4H					0.6	0.9	0.9	1.3	1.6	-1.4	-1.0	-1.0	-0.7	-0.3
6H					1.1	1.4	1.5	1.8	2.2	-0.3	-0.0	0.1	0.4	0.8
8H					1.5	1.7	1.9	2.1	2.6	0.4	0.7	0.9	1.1	1.6
12H					2.0	2.3	2.5	2.7	3.2	1.1	1.4	1.6	1.8	2.3
12H 4H					0.6	0.9	1.0	1.3	1.6	-1.4	-1.0	-1.0	-0.7	-0.3
6H					1.1	1.4	1.6	1.8	2.3	-0.2	0.1	0.3	0.5	0.9
8H					1.6	1.9	2.1	2.3	2.8	0.7	0.9	1.1	1.3	1.8
Variations with the observer position at spacings(CIE Pub.117):														
S = 1.0H					+ 1.6 / - 0.9					+ 0.4 / - 0.5				
1.5H					+ 2.2 / - 1.0					+ 0.4 / - 0.5				
2.0H					+ 3.6 / - 1.3					+ 0.8 / - 0.3				

CIE Pub.117, 360.0 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -3.5)
Area: 0.1 m2

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:ZT
Test Date:2023-11-08

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:10.722m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: BL7158-C3-3-15	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

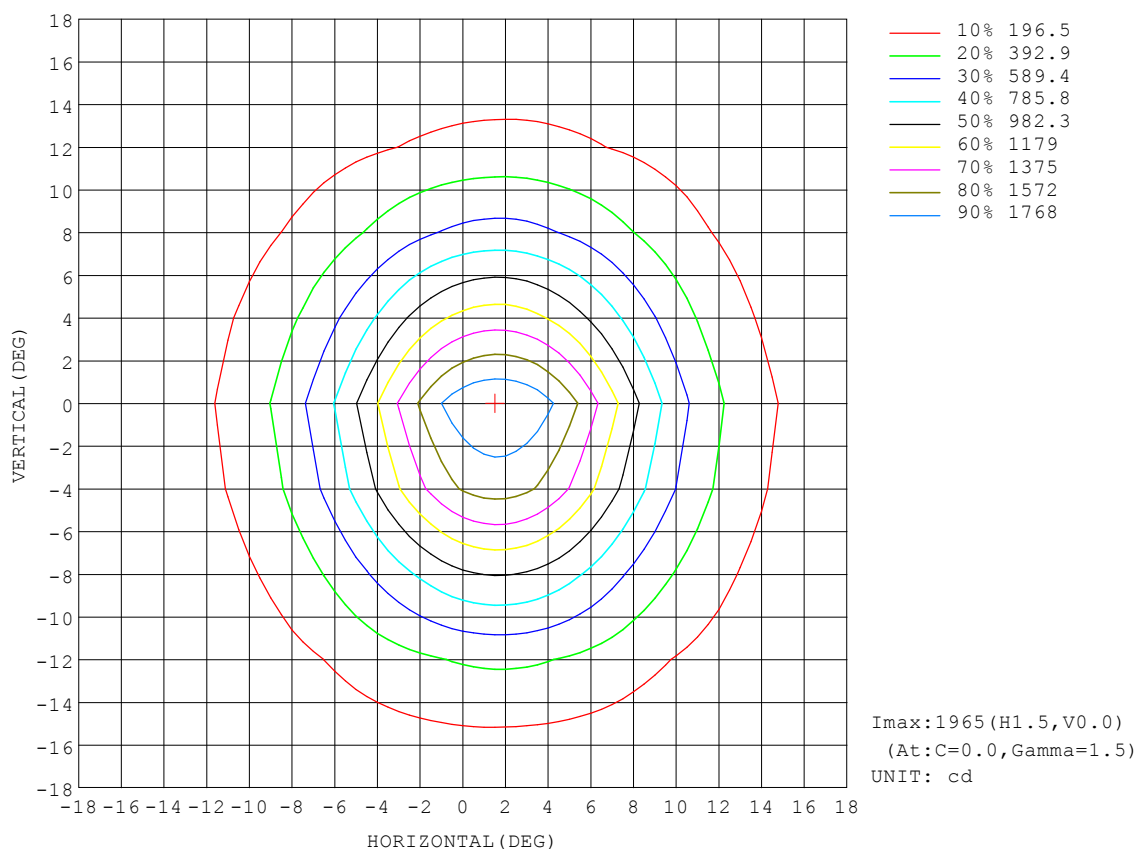
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	39	37	35	39	37	35	39	36	35	33
0.80	43	40	38	42	40	38	42	40	38	37
1.00	44	42	40	44	42	40	43	42	40	38
1.25	46	44	42	46	44	42	45	43	42	40
1.50	47	45	44	47	45	44	46	44	43	41
2.00	48	47	45	48	46	45	47	45	44	42
2.50	49	48	46	48	47	46	47	46	45	42
3.00	50	48	47	49	48	47	48	47	46	43
4.00	51	50	49	50	49	48	48	47	47	44
5.00	51	50	50	50	49	49	49	48	47	44
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:ZT
 Test Date:2023-11-08

$V(B)$ Range:-85 - 85DEG
 $V(B)$ Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
 Humidity:65.0%
 Test Distance:10.722m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

NAME: BL7158-C3-3-15	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

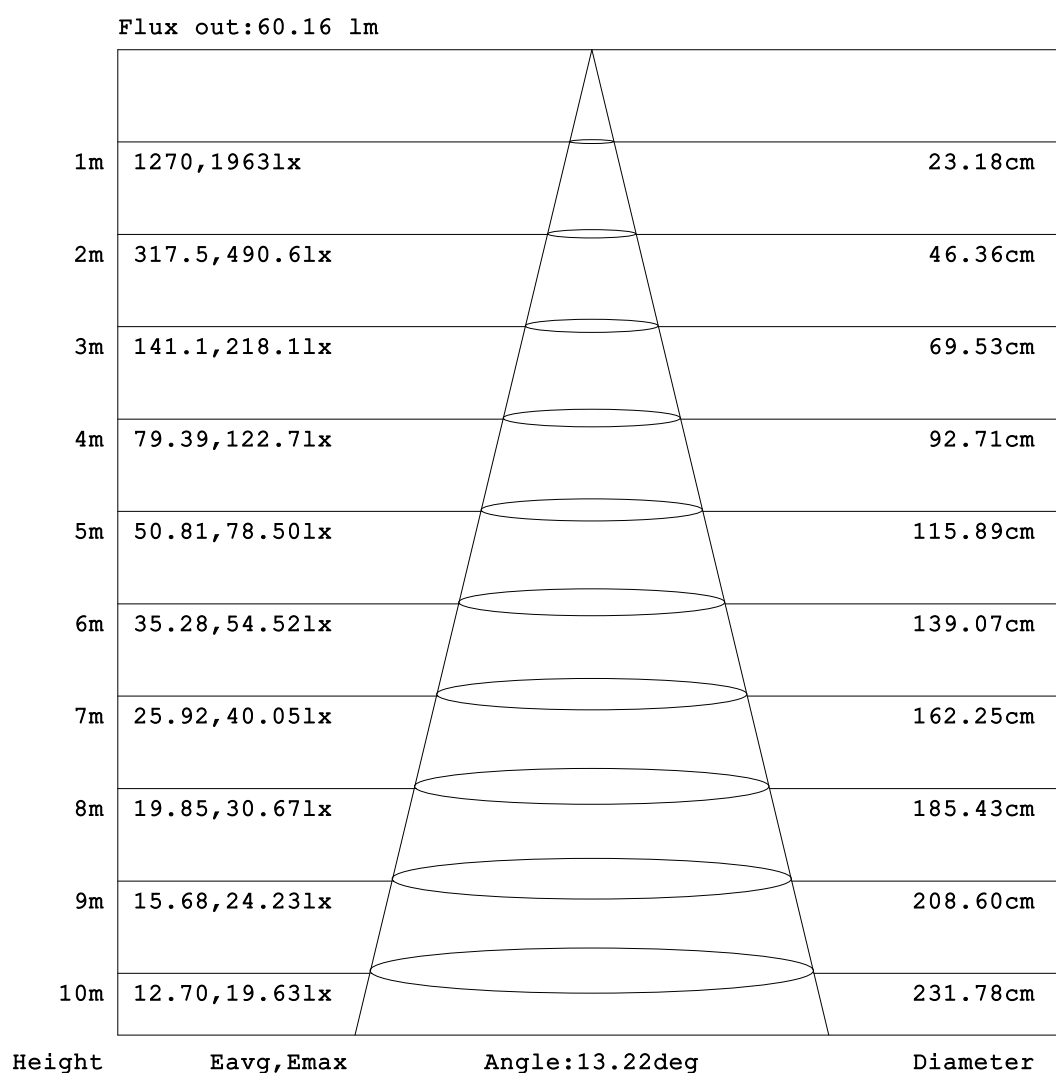


H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:ZT
Test Date:2023-11-08

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:10.722m [K=1.0000]
Remarks:

AAI Figure

NAME: BL7158-C3-3-15	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



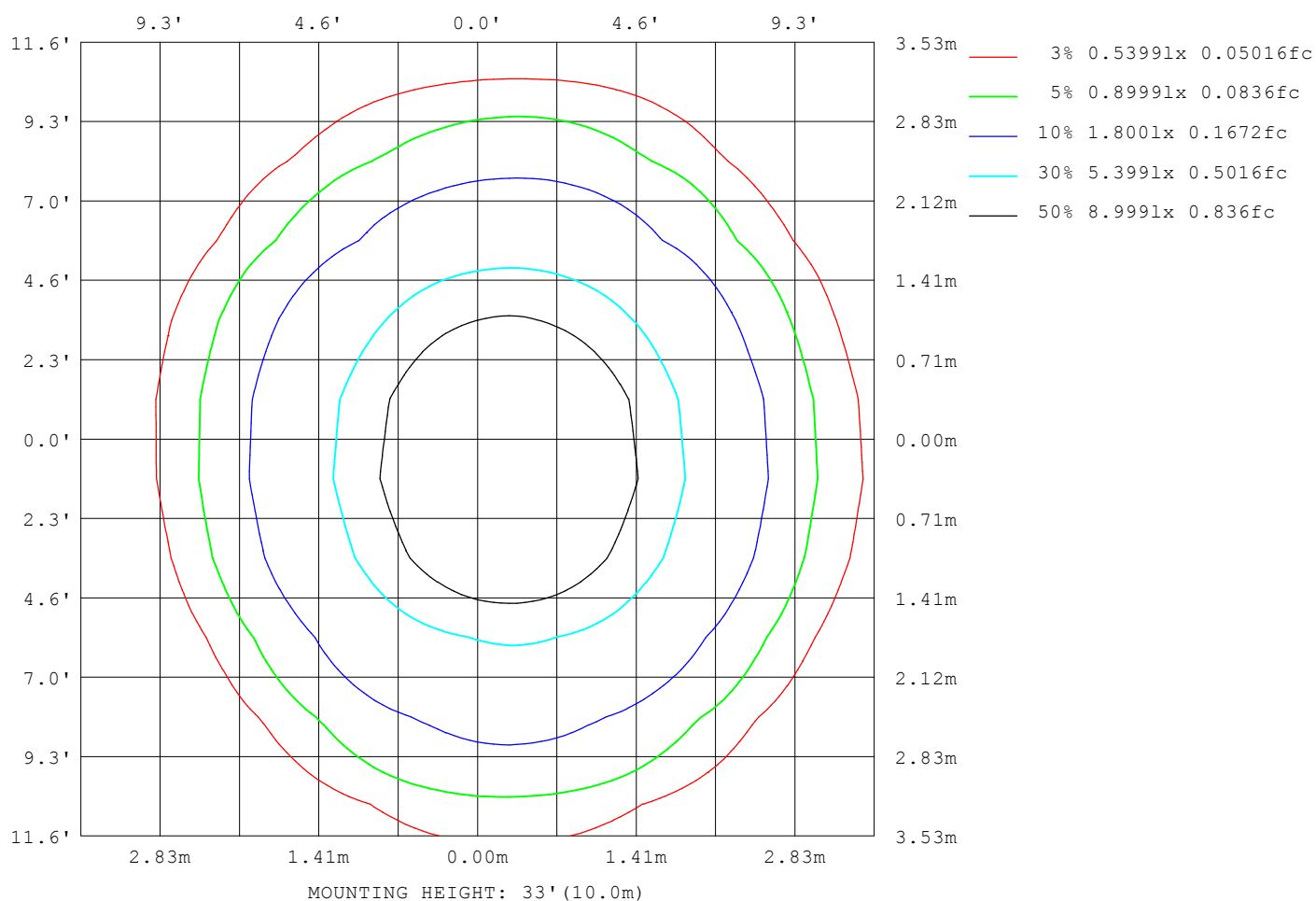
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:ZT
Test Date:2023-11-08

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:10.722m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

NAME: BL7158-C3-3-15	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:ZT
Test Date:2023-11-08

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:10.722m [K=1.0000]
Remarks:

LED Avg.L Report

NAME: BL7158-C3-3-15	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

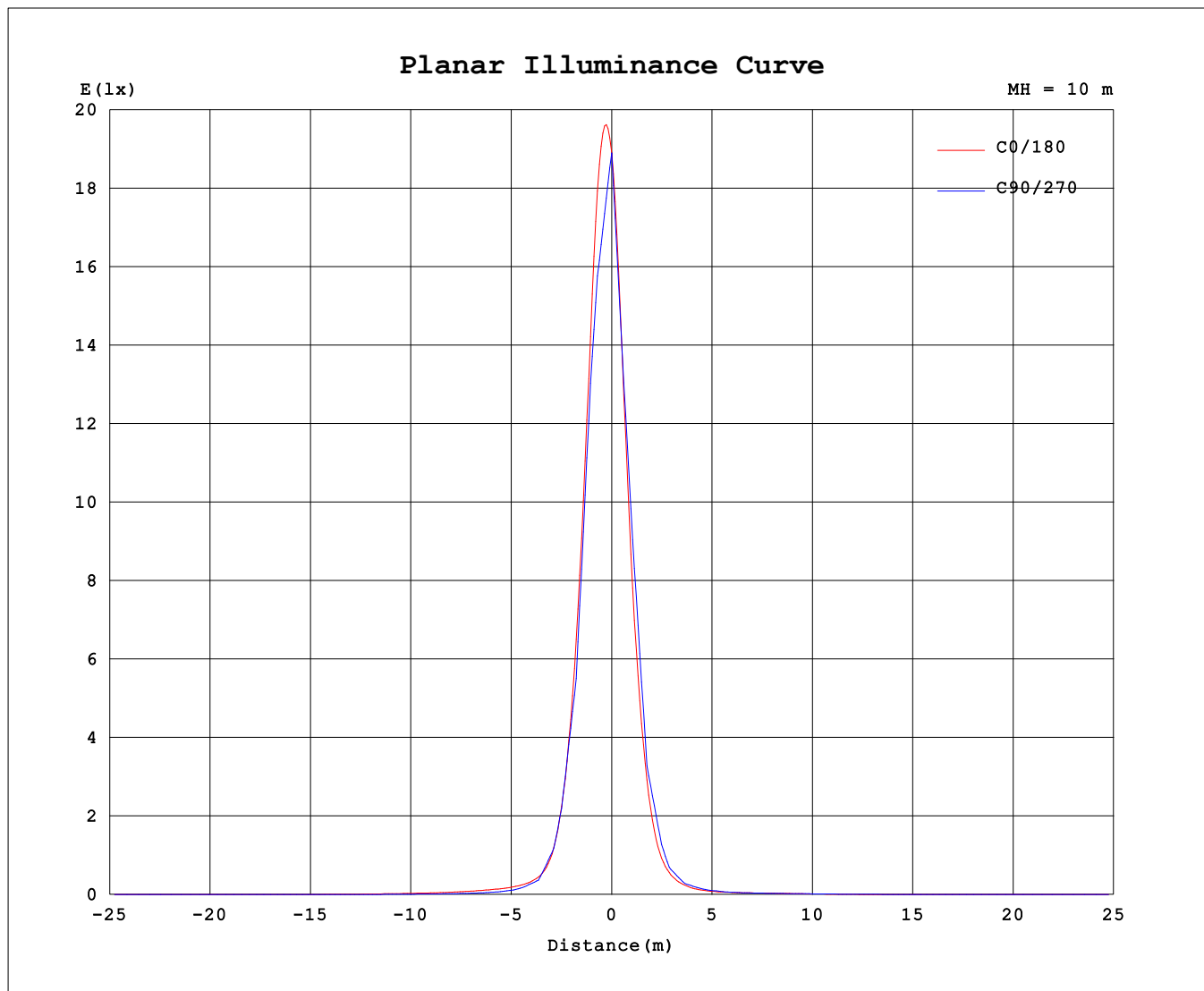
AvgL	cd/m2
L_0~180 (65) av	40
L_0~180 (75) av	34
L_0~180 (85) av	71
L_90~270 (65) av	28
L_90~270 (75) av	20
L_90~270 (85) av	23
L_45 (65) av	28
L_45 (75) av	20
L_45 (85) av	42

Standard: GB/T 29293-2012

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3℃
Operators:ZT
Test Date:2023-11-08

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:10.722m [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:ZT
Test Date:2023-11-08

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:10.722m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: BL7158-C3-3-15	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:ZT
Test Date:2023-11-08

```
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:10.722m [K=1.0000]
Remarks:
```

