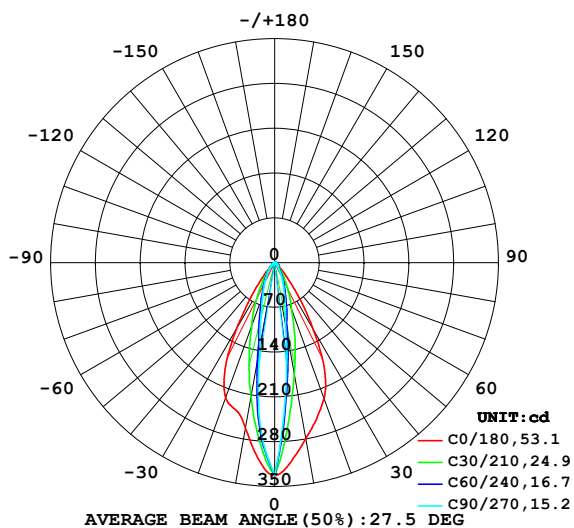


LUMINAIRE PHOTOMETRIC TEST REPORT

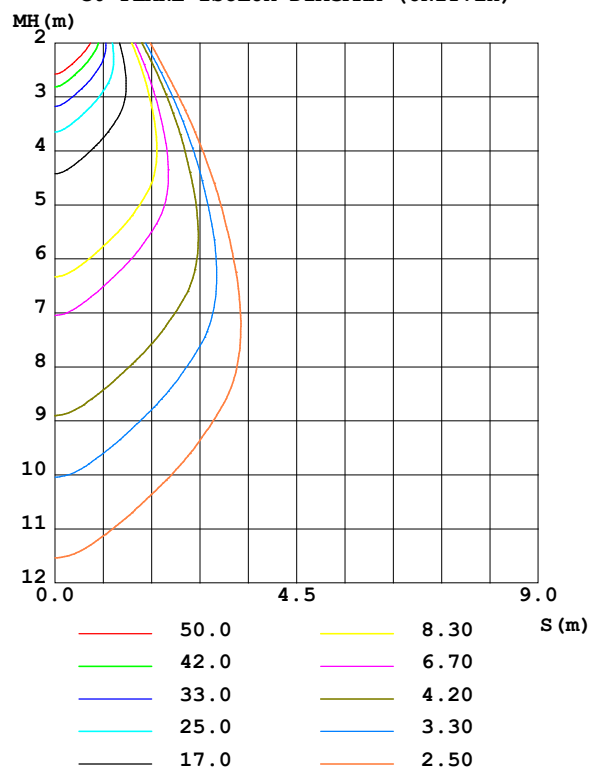
NAME: BL7158-C3-3-1555	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 37.99 lm/W
MODEL		Imax (cd)	332.7	S/MH(C0/180)	0.82	
NOMINAL POWER(W)	3	LOR(%)	33.1	S/MH(C90/270)	0.23	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	119.30	η UP,DN(C0-180)	0.0,14.6	
NOMINAL FLUX(lm)	360	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,18.5	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE(V)	220.0	η down (%)	33.1	CIBSE SHR MAX	0.30	

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:2023-11-09

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	280.0	143.6	98.30	147.7	263.0	183.5	131.3	198.3	0- 10	21.93	21.93	18.4,6.09
20	226.1	57.57	41.94	60.83	224.5	74.96	54.73	81.04	10- 20	35.67	57.60	48.3,16
30	121.9	25.40	17.40	25.43	119.7	33.93	26.81	36.55	20- 30	31.37	88.97	74.6,24.7
40	30.44	9.841	7.080	9.296	27.05	14.70	13.56	16.13	30- 40	16.84	105.8	88.7,29.4
50	8.114	4.655	3.517	4.335	5.890	6.192	6.288	7.028	40- 50	7.093	112.9	94.6,31.4
60	4.345	2.288	1.644	1.993	3.192	2.976	3.019	3.429	50- 60	3.608	116.5	97.7,32.4
70	1.707	0.8016	0.6026	0.6338	1.403	0.9981	1.172	1.413	60- 70	1.778	118.3	99.2,32.9
80	0.5956	0.4874	0.4781	0.4205	0.8123	0.3669	0.4388	0.5135	70- 80	0.7053	119.0	99.7,33.1
90	0.3602	0	0	0	0.3864	0	0	0	80- 90	0.2998	119.3	100,33.1
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): 110.08 lm

%lum = 92.3%

%lamp = 30.6%

Conical surface Flux(120deg): 116.52 lm

%lum = 97.7%

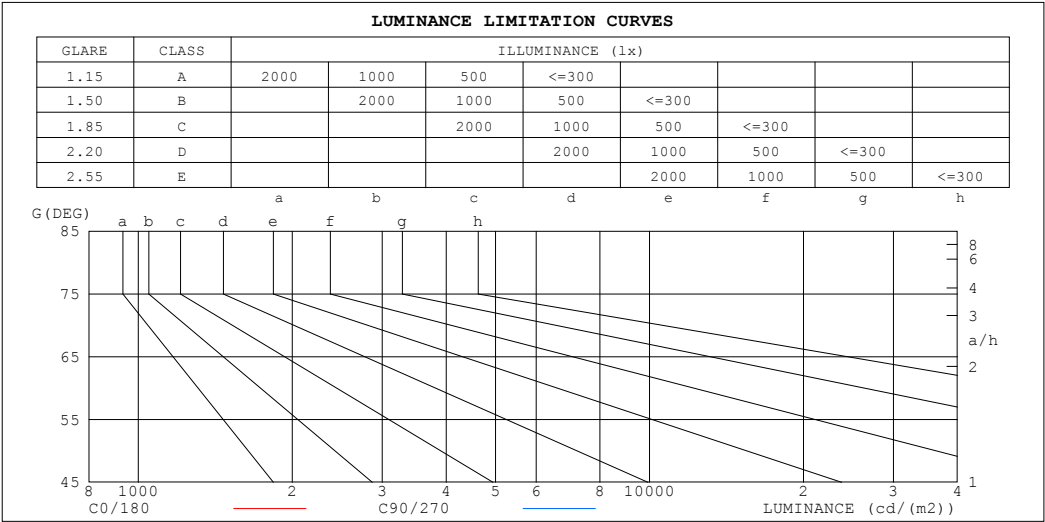
%lamp = 32.4%

H(β) Range:-90 - 90DEG
 H(β) Interval: 0.5DEG
 Test Speed: MEDIUM
 Temperature:25.3°C
 Operators:ZT
 Test Date:2023-11-09

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-C3-3-1555	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	43	24
80	34	28
75	43	20
70	50	18
65	68	24
60	87	33
55	104	42
50	126	55
45	198	70

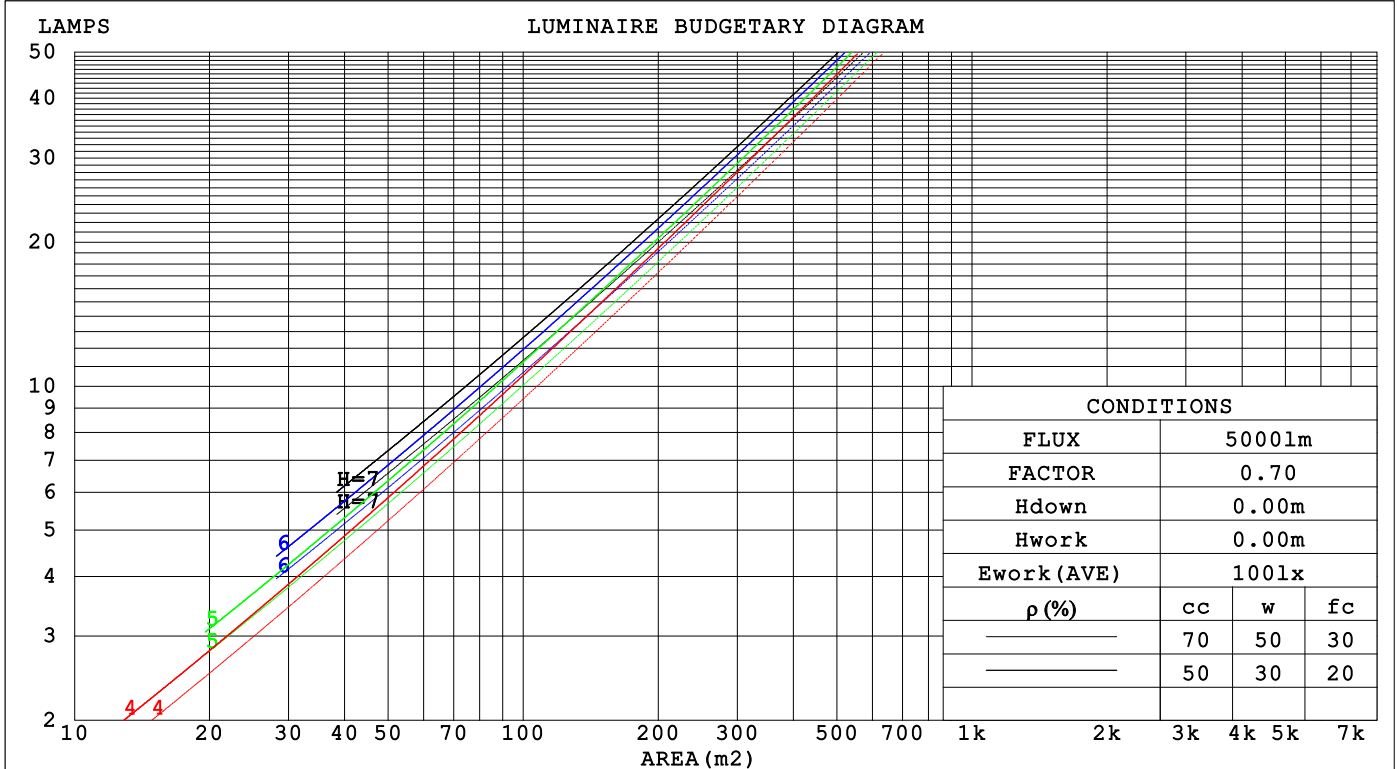
H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:ZT
Test Date:2023-11-09

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: BL7158-C3-3-1555	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:2023-11-09

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-C3-3-1555	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	.059	.034	.011	.057	.032	.010	.053	.030	.010	.049	.028	.009	.045	.026	.008															
2.0	.056	.031	.009	.054	.030	.009	.051	.028	.009	.047	.027	.008	.044	.025	.008															
3.0	.053	.028	.008	.051	.027	.008	.048	.026	.008	.046	.025	.008	.043	.024	.007															
4.0	.050	.026	.008	.049	.025	.008	.046	.024	.007	.044	.023	.007	.041	.023	.007															
5.0	.047	.024	.007	.046	.024	.007	.044	.023	.007	.042	.022	.007	.040	.021	.006															
6.0	.045	.023	.006	.044	.022	.006	.042	.021	.006	.040	.021	.006	.038	.020	.006															
7.0	.043	.021	.006	.042	.021	.006	.040	.020	.006	.038	.020	.006	.037	.019	.006															
8.0	.041	.020	.006	.040	.020	.006	.038	.019	.005	.037	.019	.005	.036	.018	.005															
9.0	.039	.019	.005	.038	.019	.005	.037	.018	.005	.035	.018	.005	.034	.017	.005															
10.0	.037	.018	.005	.036	.018	.005	.035	.017	.005	.034	.017	.005	.033	.017	.005															

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	.063	.063	.063	.054	.054	.054	.037	.037	.037	.021	.021	.021	.007	.007	.007	
1.0	.057	.052	.048	.049	.045	.041	.033	.031	.029	.019	.018	.017	.006	.006	.005	
2.0	.052	.044	.037	.044	.038	.032	.030	.026	.023	.017	.015	.013	.006	.005	.004	
3.0	.047	.038	.030	.041	.032	.026	.028	.023	.018	.016	.013	.011	.005	.004	.003	
4.0	.044	.033	.024	.038	.028	.021	.026	.020	.015	.015	.012	.009	.005	.004	.003	
5.0	.041	.029	.020	.035	.025	.017	.024	.017	.012	.014	.010	.007	.005	.003	.002	
6.0	.038	.026	.017	.033	.022	.015	.023	.016	.010	.013	.009	.006	.004	.003	.002	
7.0	.036	.023	.014	.031	.020	.012	.021	.014	.009	.012	.008	.005	.004	.003	.002	
8.0	.034	.021	.012	.029	.018	.011	.020	.013	.008	.012	.008	.004	.004	.002	.001	
9.0	.032	.019	.011	.028	.017	.009	.019	.012	.007	.011	.007	.004	.004	.002	.001	
10.0	.031	.018	.009	.027	.016	.008	.018	.011	.006	.011	.006	.003	.003	.002	.001	

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:ZT
Test Date:2023-11-09

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-C3-3-1555					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	5.4	6.3	5.6	6.5	6.6	0.1	1.0	0.4	1.2	1.4
3H	5.5	6.4	5.8	6.6	6.8	0.3	1.2	0.6	1.4	1.6
4H	5.6	6.4	5.8	6.6	6.8	0.4	1.2	0.7	1.4	1.7
6H	5.6	6.3	5.9	6.6	6.8	0.6	1.4	0.9	1.6	1.9
8H	5.6	6.3	5.9	6.6	6.8	0.8	1.5	1.1	1.8	2.0
12H	5.6	6.3	5.9	6.6	6.9	1.0	1.7	1.3	1.9	2.2
4H 2H	5.3	6.1	5.5	6.3	6.5	0.4	1.2	0.7	1.4	1.6
3H	5.4	6.1	5.7	6.4	6.7	0.7	1.4	1.0	1.6	1.9
4H	5.5	6.1	5.8	6.4	6.7	0.9	1.5	1.2	1.8	2.1
6H	5.6	6.1	5.9	6.4	6.8	1.2	1.8	1.6	2.1	2.4
8H	5.6	6.1	6.0	6.5	6.9	1.5	2.0	1.8	2.3	2.7
12H	5.7	6.2	6.1	6.5	6.9	1.7	2.2	2.1	2.6	2.9
8H 4H	5.4	5.9	5.8	6.3	6.6	0.9	1.4	1.3	1.8	2.2
6H	5.5	5.9	5.9	6.3	6.8	1.4	1.9	1.9	2.2	2.7
8H	5.6	6.0	6.1	6.4	6.9	1.8	2.2	2.3	2.6	3.1
12H	5.8	6.1	6.3	6.6	7.0	2.2	2.5	2.7	3.0	3.5
12H 4H	5.4	5.8	5.8	6.2	6.6	0.9	1.4	1.3	1.8	2.2
6H	5.5	5.9	5.9	6.3	6.7	1.5	1.9	1.9	2.3	2.7
8H	5.6	6.0	6.1	6.4	6.9	2.0	2.3	2.4	2.7	3.2
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 4.5 / - 3.1					+ 0.7 / - 1.0				
1.5H	+ 6.6 / - 3.3					+ 0.7 / - 0.8				
2.0H	+ 4.2 / - 2.0					+ 1.1 / - 1.2				

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:2023-11-09

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-C3-3-1555	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

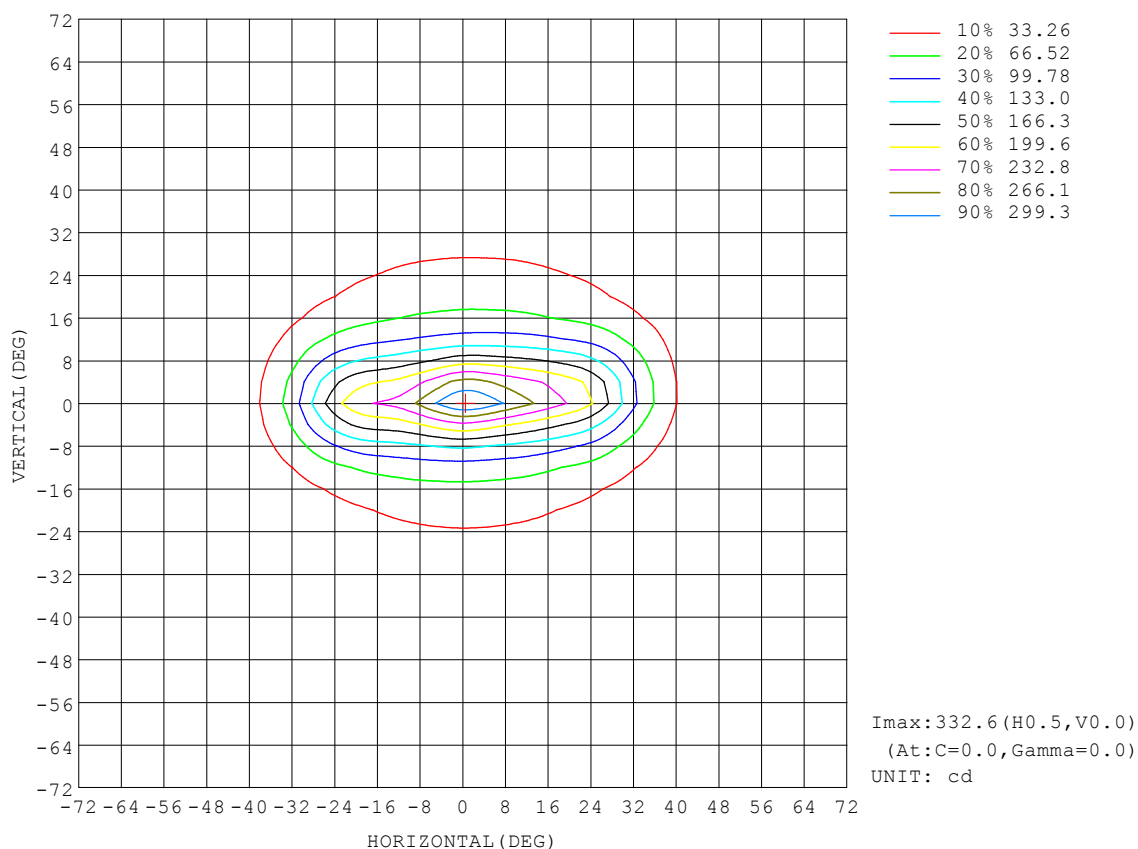
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	28	26	24	28	26	24	28	26	24	23
0.80	31	28	27	30	28	27	30	28	27	26
1.00	32	30	29	32	30	29	31	30	29	27
1.25	34	32	30	33	32	30	33	31	30	29
1.50	35	33	32	34	33	31	33	32	31	30
2.00	36	34	33	35	34	33	34	33	32	30
2.50	36	35	34	36	34	33	35	34	33	31
3.00	37	36	35	36	35	34	35	34	33	31
4.00	37	36	36	37	36	35	36	35	34	32
5.00	38	37	36	37	37	36	36	35	35	32
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:2023-11-09

$V(B)$ 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-C3-3-1555	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

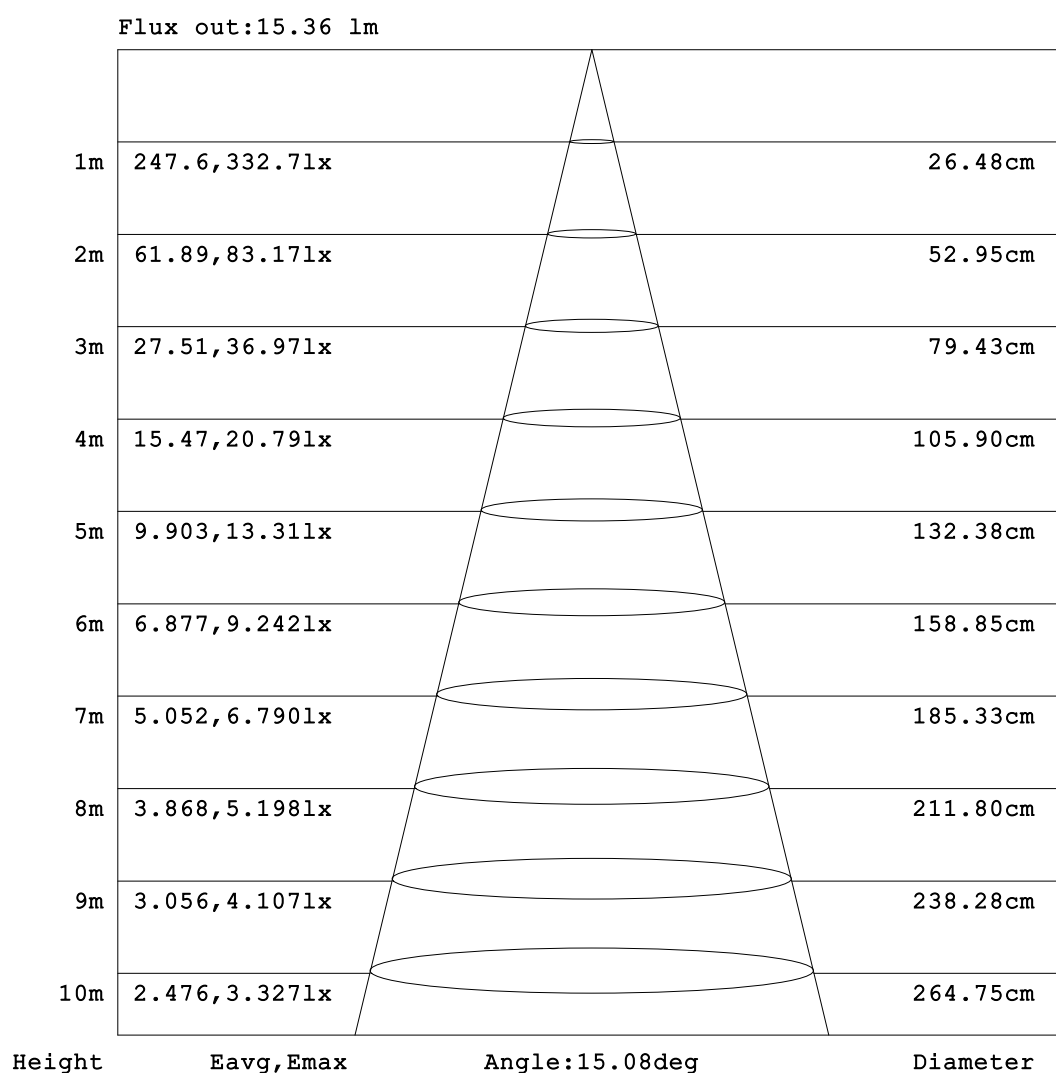


H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:ZT
Test Date:2023-11-09

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-C3-3-1555	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



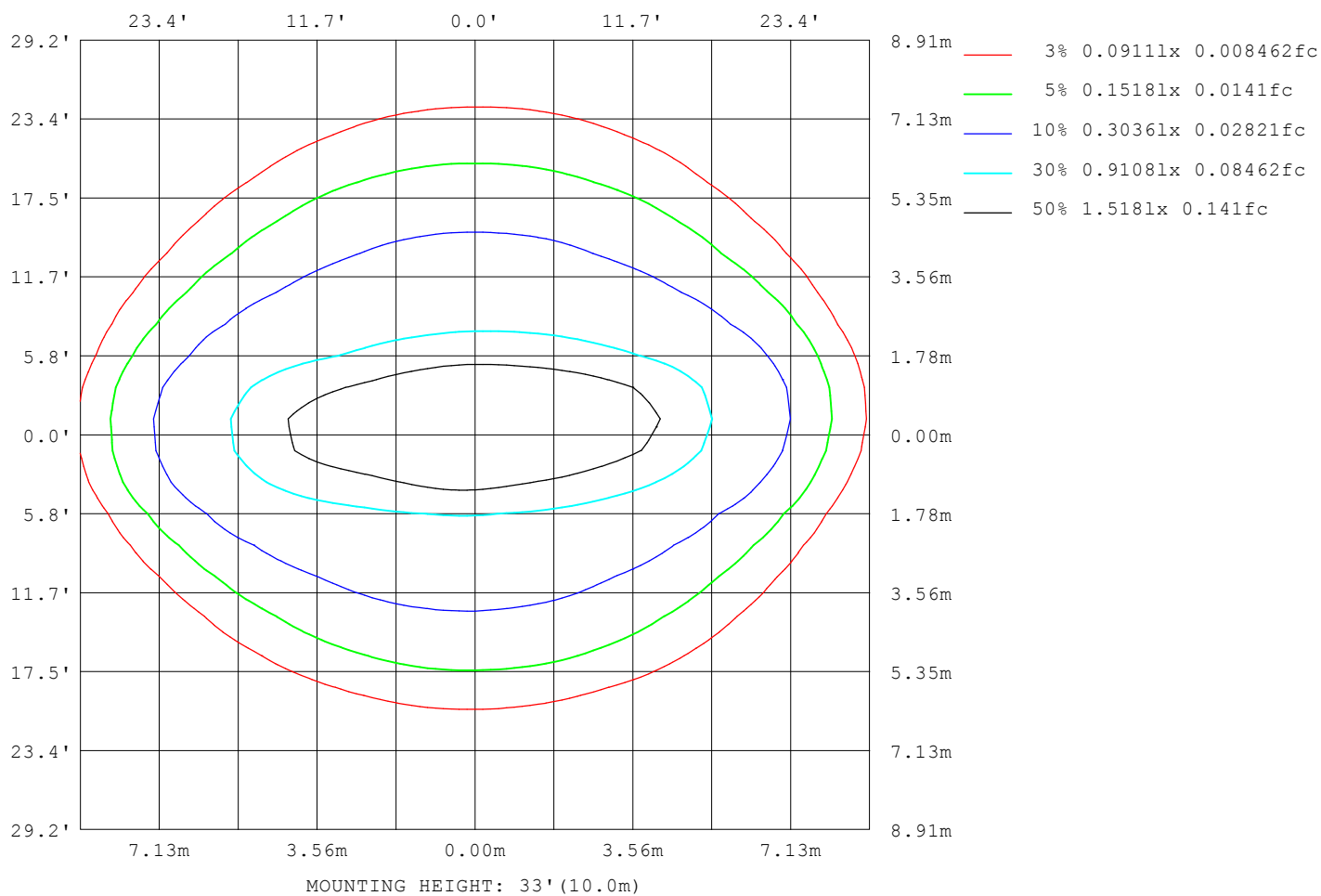
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:ZT
Test Date:2023-11-09

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-C3-3-1555	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:2023-11-09

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-C3-3-1555	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

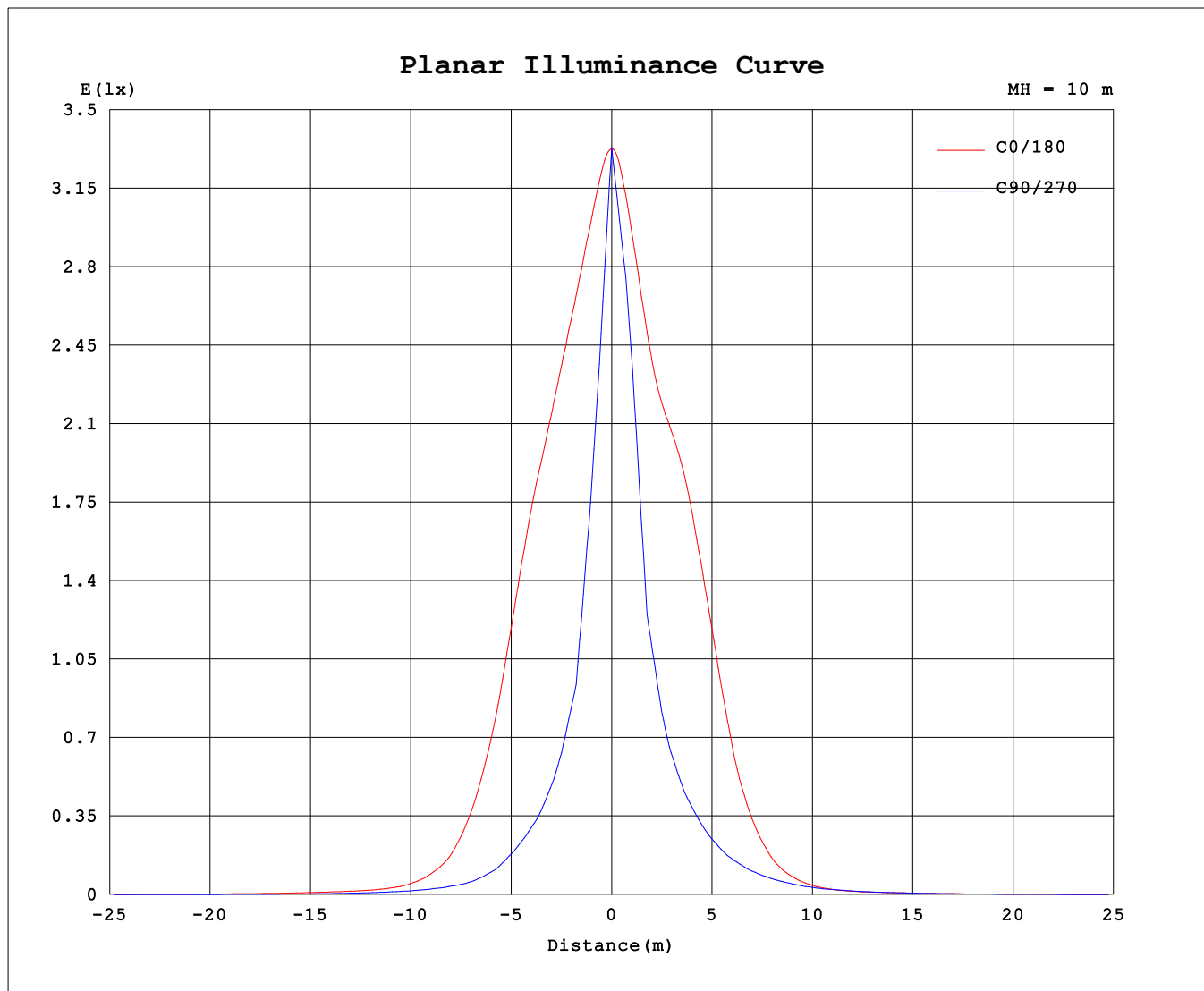
AvgL	cd/m2
L_0~180 (65) av	59
L_0~180 (75) av	40
L_0~180 (85) av	63
L_90~270 (65) av	36
L_90~270 (75) av	22
L_90~270 (85) av	22
L_45 (65) av	40
L_45 (75) av	22
L_45 (85) av	43

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:2023-11-09

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:2023-11-09

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-C3-3-1555	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:ZT
Test Date:2023-11-09

```
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:
```