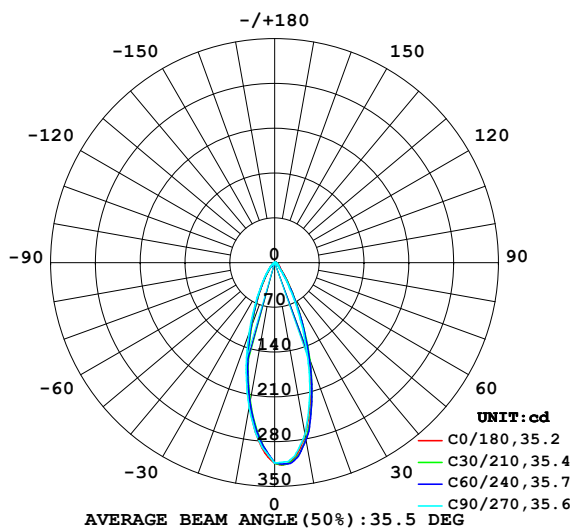


LUMINAIRE PHOTOMETRIC TEST REPORT

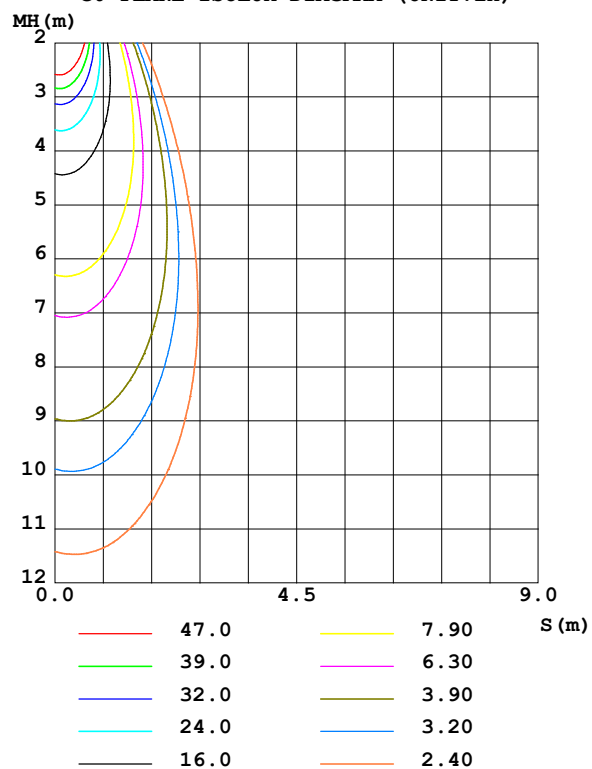
NAME: BL7158-C3-3-35	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 47.18 lm/W
MODEL		Imax (cd)	316.4	S/MH(C0/180)	0.65	
NOMINAL POWER(W)	3	LOR(%)	40.8	S/MH(C90/270)	0.63	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	146.73	η UP,DN(C0-180)	0.0,21.4	
NOMINAL FLUX(lm)	360	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,19.4	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	219.9	η down (%)	40.8	CIBSE SHR MAX	0.60	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
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	273.2	281.5	273.1	244.8	225.9	220.2	230.4	247.8	0- 10	26.55	26.55	18.1,7.38
20	154.2	160.8	146.6	124.9	109.1	108.2	116.0	132.3	10- 20	52.20	78.76	53.7,21.9
30	58.34	58.11	48.72	41.93	38.04	39.28	42.49	49.98	20- 30	37.84	116.6	79.5,32.4
40	19.00	15.83	13.15	11.98	12.30	13.63	15.35	17.08	30- 40	17.11	133.7	91.1,37.1
50	7.341	5.449	4.689	4.530	5.035	5.214	6.091	6.347	40- 50	7.132	140.8	96,39.1
60	3.357	2.380	1.945	1.874	2.543	2.292	2.581	2.821	50- 60	3.367	144.2	98.3,40.1
70	1.315	0.8622	0.6943	0.6411	1.239	0.7042	1.009	1.146	60- 70	1.551	145.8	99.3,40.5
80	0.5367	0.5338	0.4912	0.4572	0.9498	0.3415	0.4257	0.4872	70- 80	0.6644	146.4	99.8,40.7
90	0.3340	0	0	0	0.4501	0	0	0	80- 90	0.3155	146.7	100,40.8
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): 137.98 lm

%lum = 94.0%

%lamp = 38.3%

Conical surface Flux(120deg): 144.2 lm

%lum = 98.3%

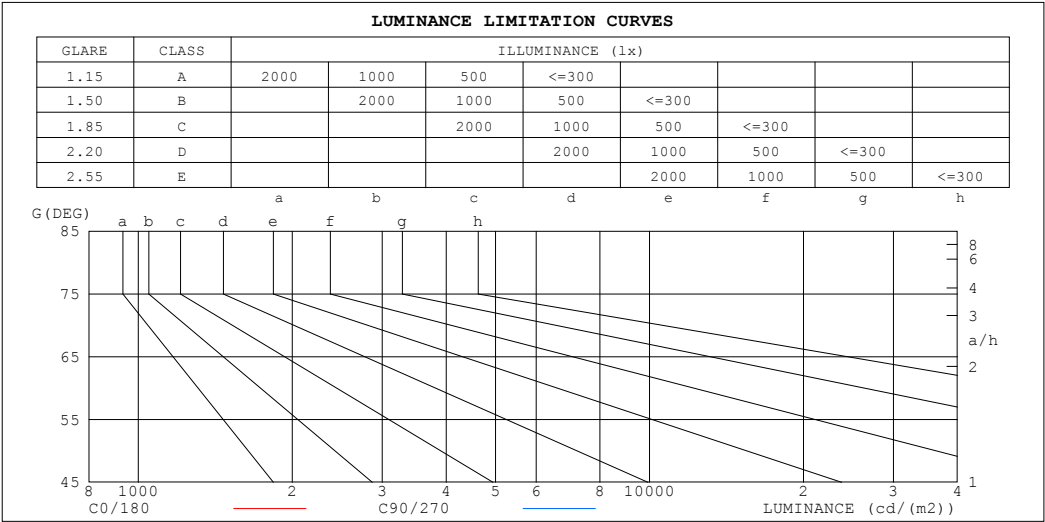
%lamp = 40.1%

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 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-C3-3-35	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

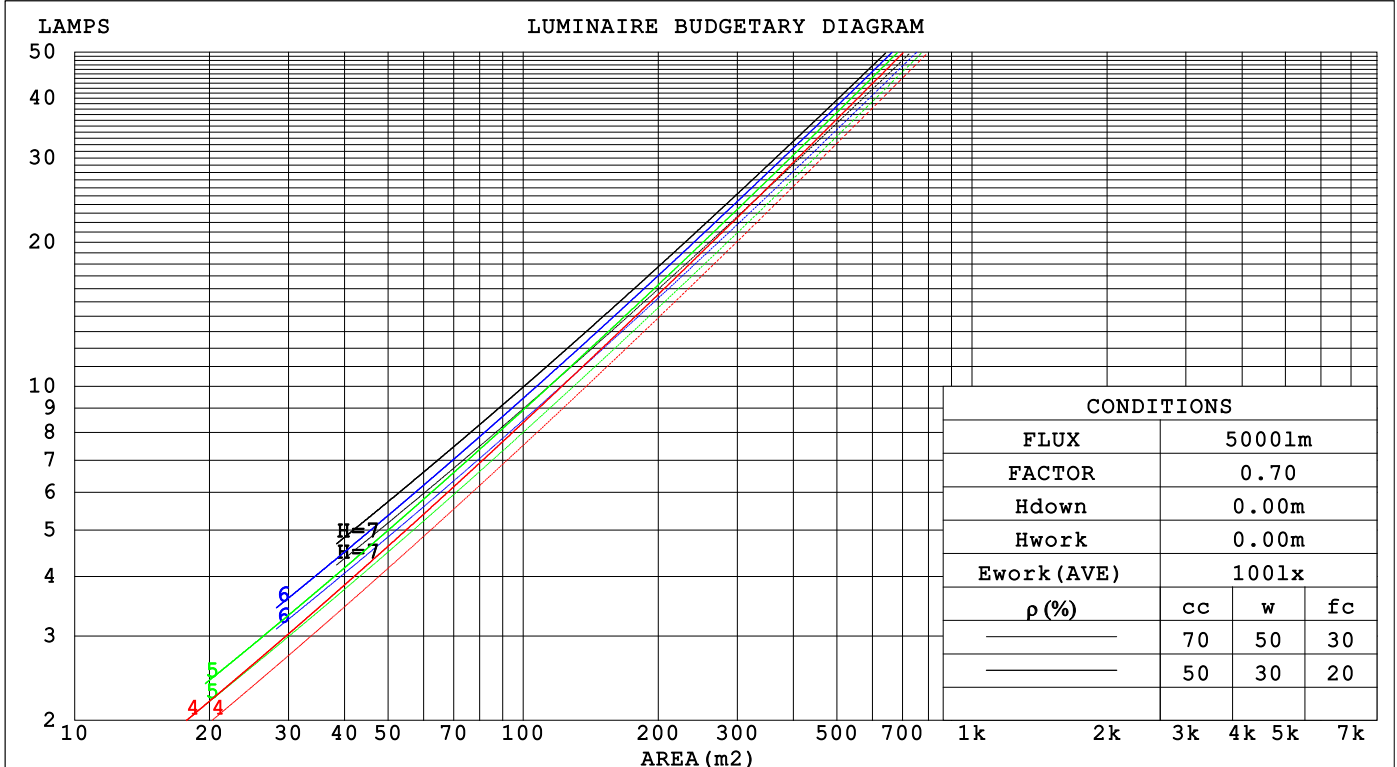


LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	43	27
80	31	28
75	29	22
70	38	20
65	52	27
60	67	39
55	86	54
50	114	73
45	161	111

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: BL7158-C3-3-35	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	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															Coefficients of Utilization(CU)														
0.0	.49	.49	.49	.47	.47	.47	.45	.45	.45	.43	.43	.43	.42	.42	.42	.41														
1.0	.45	.44	.43	.44	.44	.43	.43	.42	.41	.41	.41	.40	.40	.39	.39	.38														
2.0	.42	.41	.40	.42	.40	.39	.40	.39	.38	.39	.38	.37	.38	.37	.37	.36														
3.0	.40	.38	.36	.39	.37	.36	.38	.37	.36	.37	.36	.35	.36	.35	.34	.34														
4.0	.38	.35	.34	.37	.35	.34	.36	.35	.33	.35	.34	.33	.35	.33	.32	.32														
5.0	.35	.33	.32	.35	.33	.32	.34	.33	.31	.34	.32	.31	.33	.32	.31	.30														
6.0	.34	.31	.30	.33	.31	.30	.33	.31	.29	.32	.31	.29	.32	.30	.29	.29														
7.0	.32	.30	.28	.32	.30	.28	.31	.29	.28	.31	.29	.28	.30	.29	.28	.27														
8.0	.30	.28	.27	.30	.28	.27	.30	.28	.27	.29	.28	.26	.29	.27	.26	.26														
9.0	.29	.27	.25	.29	.27	.25	.29	.27	.25	.28	.26	.25	.28	.26	.25	.25														
10.0	.28	.26	.24	.28	.26	.24	.27	.25	.24	.27	.25	.24	.27	.25	.24	.24														



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
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-C3-3-35	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	.070 .040 .013	.067 .038 .012	.062 .036 .011	.057 .033 .011	.053 .031 .010	
2.0	.066 .036 .011	.064 .035 .011	.059 .033 .010	.055 .031 .010	.052 .029 .009	
3.0	.062 .033 .010	.060 .032 .010	.057 .031 .009	.053 .029 .009	.050 .028 .009	
4.0	.059 .031 .009	.057 .030 .009	.054 .029 .009	.051 .027 .008	.048 .026 .008	
5.0	.056 .028 .008	.054 .028 .008	.052 .027 .008	.049 .026 .008	.047 .025 .008	
6.0	.053 .027 .008	.052 .026 .008	.049 .025 .007	.047 .024 .007	.045 .024 .007	
7.0	.050 .025 .007	.049 .025 .007	.047 .024 .007	.045 .023 .007	.043 .023 .007	
8.0	.048 .023 .007	.047 .023 .007	.045 .023 .006	.043 .022 .006	.042 .021 .006	
9.0	.046 .022 .006	.045 .022 .006	.043 .021 .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	.078 .078 .078	.066 .066 .066	.045 .045 .045	.026 .026 .026	.008 .008 .008	
1.0	.070 .064 .059	.060 .055 .051	.041 .038 .035	.023 .022 .021	.008 .007 .007	
2.0	.063 .054 .046	.054 .047 .040	.037 .032 .028	.021 .019 .016	.007 .006 .005	
3.0	.058 .046 .037	.050 .040 .032	.034 .028 .023	.020 .016 .013	.006 .005 .004	
4.0	.053 .040 .030	.046 .035 .026	.032 .024 .018	.018 .014 .011	.006 .005 .004	
5.0	.050 .035 .025	.043 .031 .022	.029 .021 .015	.017 .013 .009	.005 .004 .003	
6.0	.046 .032 .021	.040 .027 .018	.028 .019 .013	.016 .011 .008	.005 .004 .003	
7.0	.044 .028 .018	.038 .025 .015	.026 .017 .011	.015 .010 .007	.005 .003 .002	
8.0	.041 .026 .015	.035 .022 .013	.025 .016 .009	.014 .009 .006	.005 .003 .002	
9.0	.039 .024 .013	.034 .020 .012	.023 .014 .008	.014 .009 .005	.004 .003 .002	
10.0	.037 .022 .012	.032 .019 .010	.022 .013 .007	.013 .008 .004	.004 .003 .001	

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 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-C3-3-35					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					4.4	5.2	4.6	5.4	5.6	3.1	3.9	3.3	4.1	4.3
3H					4.5	5.3	4.7	5.5	5.7	3.1	3.9	3.3	4.1	4.3
4H					4.5	5.3	4.8	5.5	5.7	3.1	3.8	3.3	4.1	4.3
6H					4.5	5.2	4.8	5.5	5.7	3.1	3.8	3.4	4.1	4.3
8H					4.5	5.2	4.8	5.5	5.7	3.2	3.9	3.5	4.1	4.4
12H					4.6	5.2	4.9	5.5	5.8	3.2	3.9	3.6	4.2	4.4
4H 2H					4.3	5.0	4.5	5.2	5.5	3.0	3.8	3.3	4.0	4.2
3H					4.4	5.1	4.7	5.4	5.6	3.1	3.7	3.4	4.0	4.3
4H					4.5	5.1	4.8	5.4	5.7	3.1	3.7	3.5	4.0	4.3
6H					4.6	5.1	4.9	5.4	5.8	3.2	3.8	3.6	4.1	4.4
8H					4.6	5.1	5.0	5.5	5.8	3.4	3.8	3.7	4.2	4.6
12H					4.7	5.2	5.1	5.6	5.9	3.5	3.9	3.9	4.3	4.7
8H 4H					4.4	4.9	4.8	5.2	5.6	3.1	3.6	3.5	3.9	4.3
6H					4.5	4.9	5.0	5.3	5.8	3.3	3.7	3.7	4.1	4.5
8H					4.7	5.0	5.1	5.5	5.9	3.5	3.9	3.9	4.3	4.7
12H					4.9	5.2	5.4	5.6	6.1	3.7	4.0	4.2	4.5	5.0
12H 4H					4.4	4.8	4.8	5.2	5.6	3.1	3.5	3.5	3.9	4.3
6H					4.5	4.9	5.0	5.3	5.7	3.3	3.7	3.7	4.1	4.5
8H					4.7	5.0	5.2	5.5	5.9	3.6	3.9	4.0	4.3	4.8
Variations with the observer position at spacings(CIE Pub.117):														
S = 1.0H					+ 1.9 / - 2.2					+ 1.5 / - 2.3				
1.5H					+ 3.2 / - 2.2					+ 2.6 / - 1.8				
2.0H					+ 2.9 / - 1.8					+ 2.3 / - 1.5				

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: 1.0DEG
Test Speed: HIGH
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-C3-3-35	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

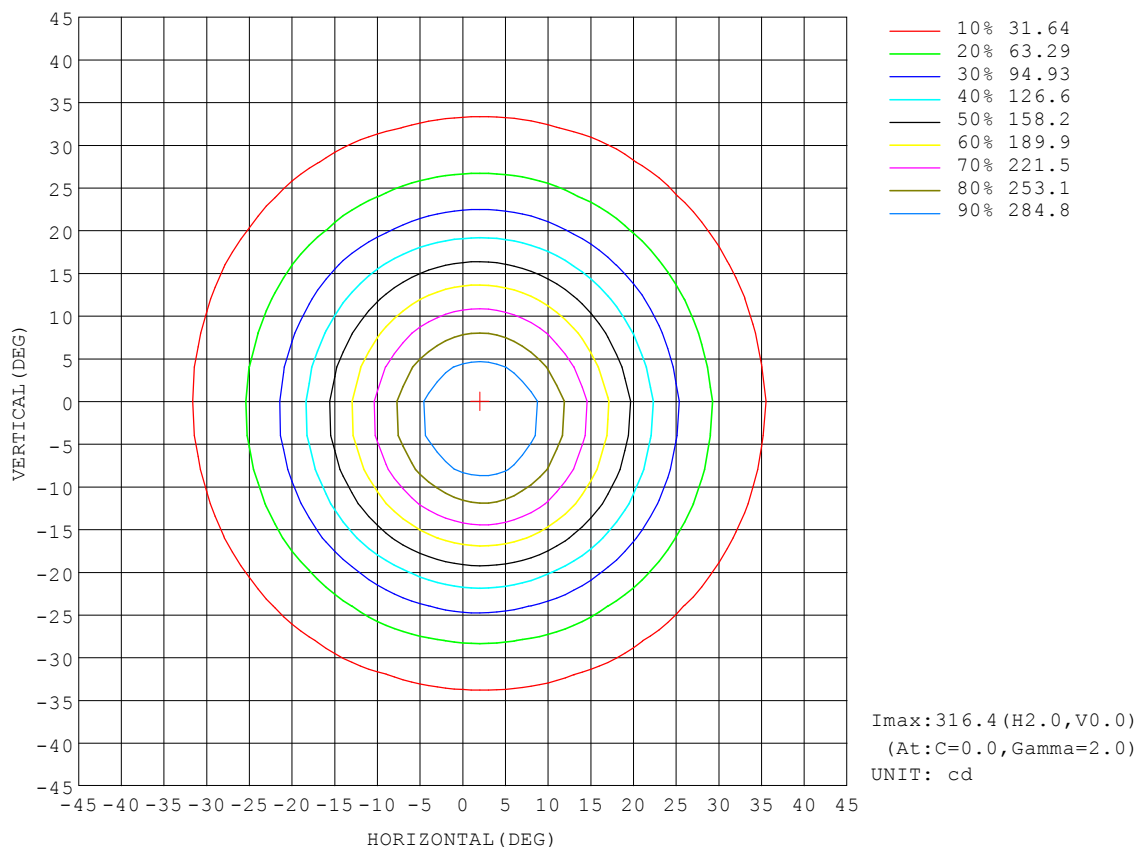
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	35	32	31	35	32	31	35	32	31	29
0.80	38	36	34	38	36	34	37	35	34	32
1.00	40	38	36	40	37	36	39	37	36	34
1.25	42	40	38	41	39	38	40	39	38	36
1.50	43	41	39	42	41	39	41	40	39	37
2.00	44	42	41	43	42	41	42	41	40	38
2.50	45	43	42	44	43	41	43	42	41	38
3.00	45	44	43	45	43	42	43	42	41	39
4.00	46	45	44	45	44	44	44	43	42	40
5.00	47	46	45	46	45	44	44	44	43	40
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

$H(\beta)$ Range:-90 - 90DEG
 $H(\beta)$ Interval: 1.0DEG
 Test Speed: HIGH
 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-C3-3-35	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

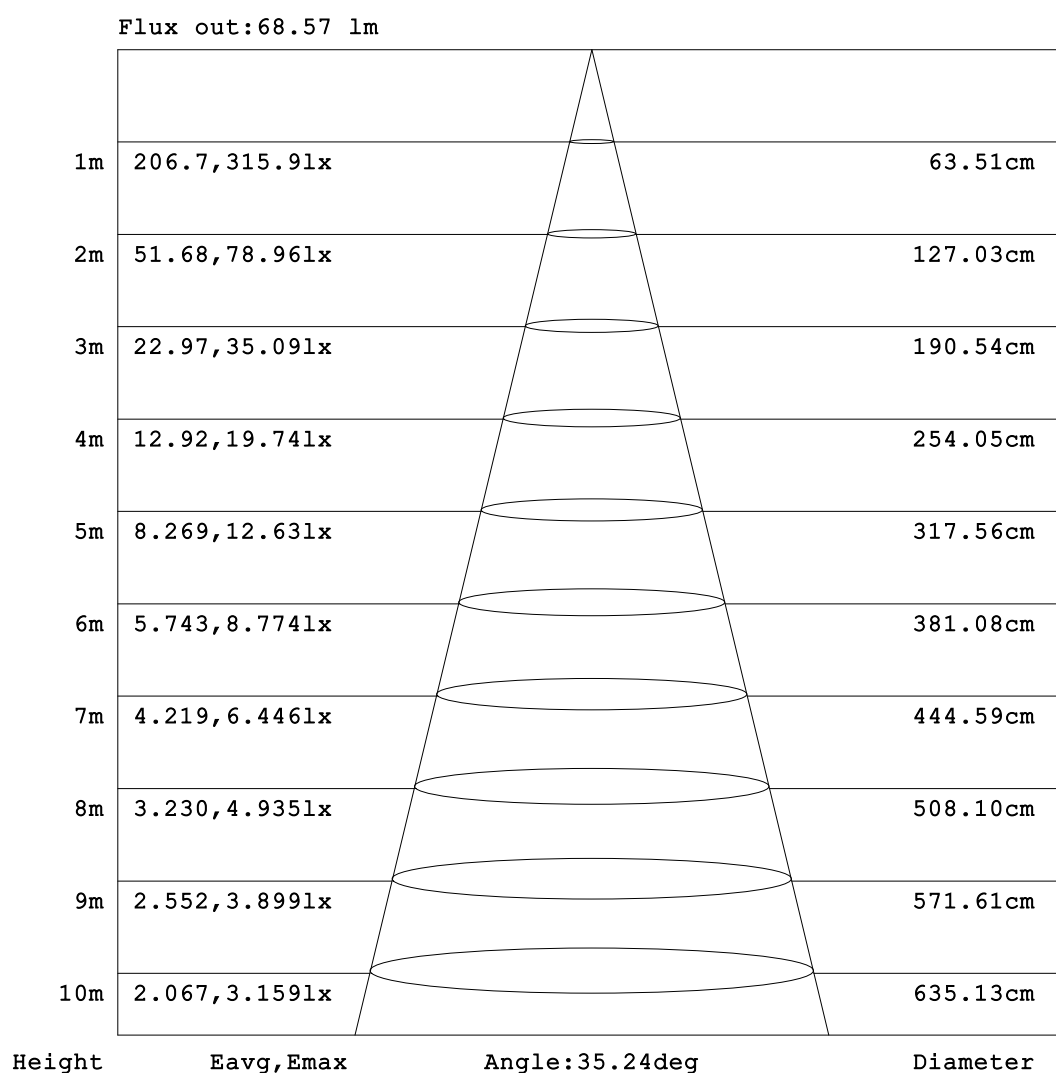


H(β) Range: -90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: ZT
Test Date: 2023-11-08

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-C3-3-35	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



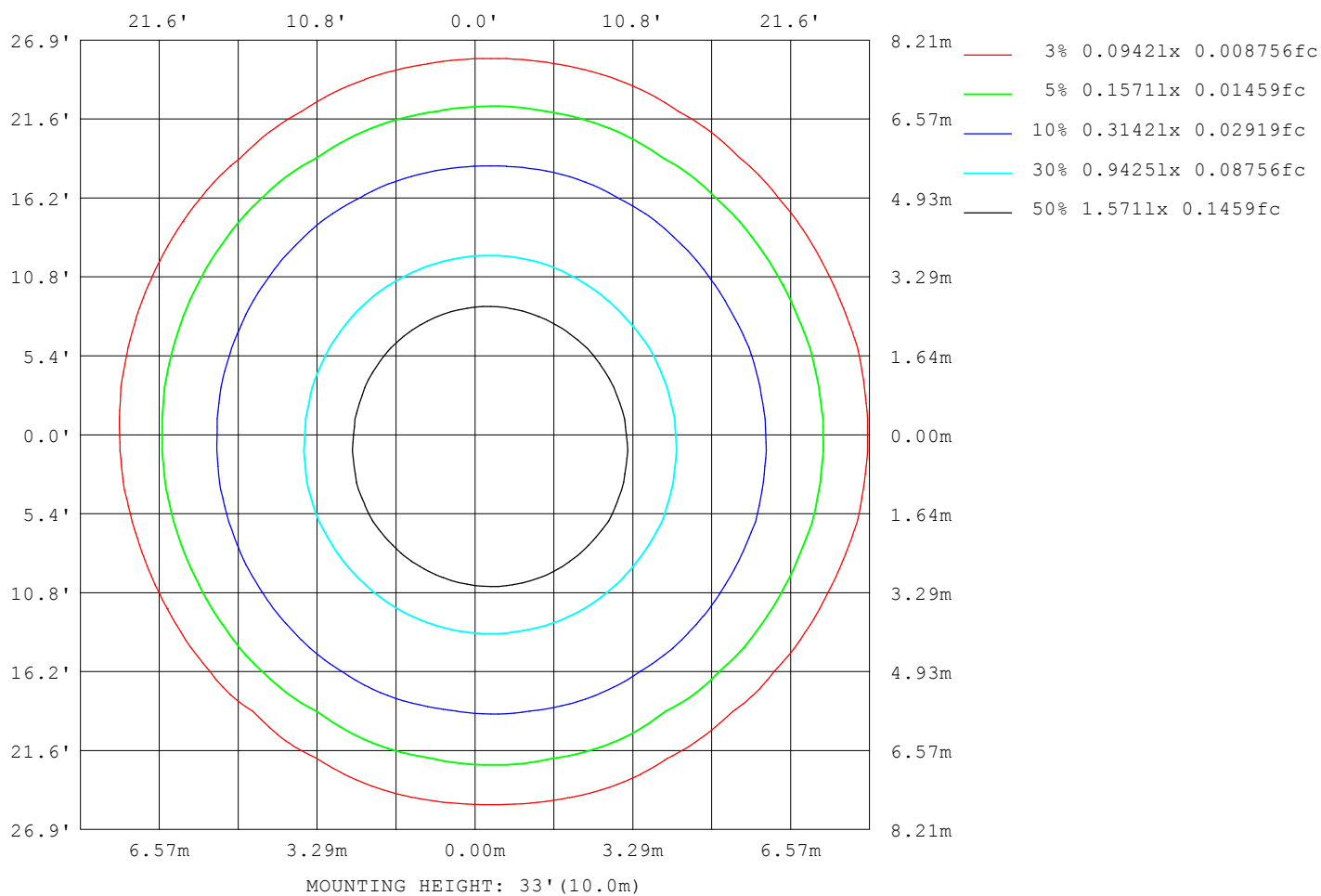
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
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-C3-3-35	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
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-C3-3-35	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

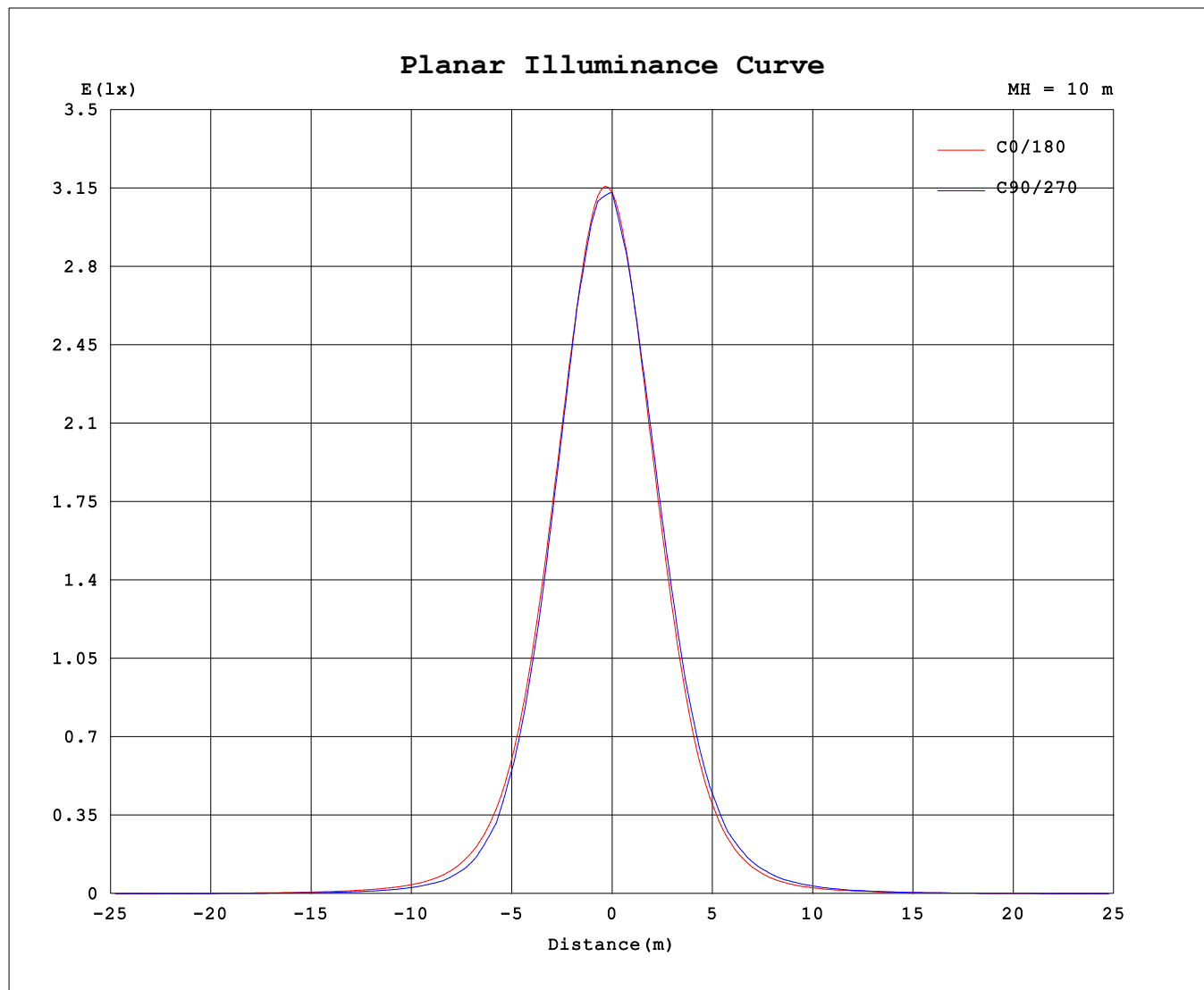
AvgL	cd/m2
L_0~180 (65) av	46
L_0~180 (75) av	35
L_0~180 (85) av	71
L_90~270 (65) av	33
L_90~270 (75) av	21
L_90~270 (85) av	25
L_45 (65) av	34
L_45 (75) av	22
L_45 (85) av	45

Standard: GB/T 29293-2012

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
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: 1.0DEG
Test Speed: HIGH
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-C3-3-35	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--3

UNIT: cd

[illegible]

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
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-C3-3-35	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--4

UNIT: cd

[illegible]

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
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:
```