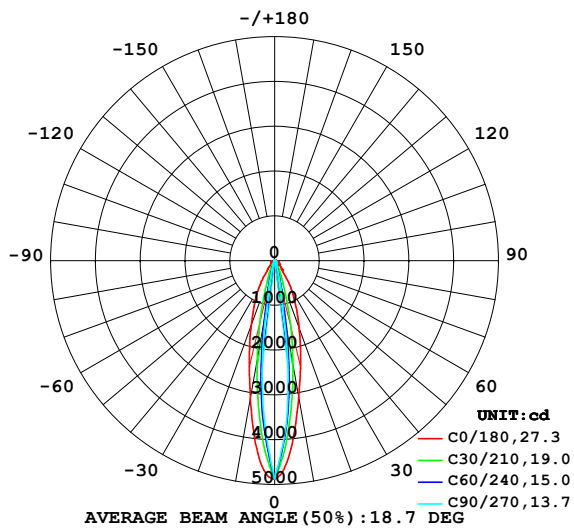


LUMINAIRE PHOTOMETRIC TEST REPORT

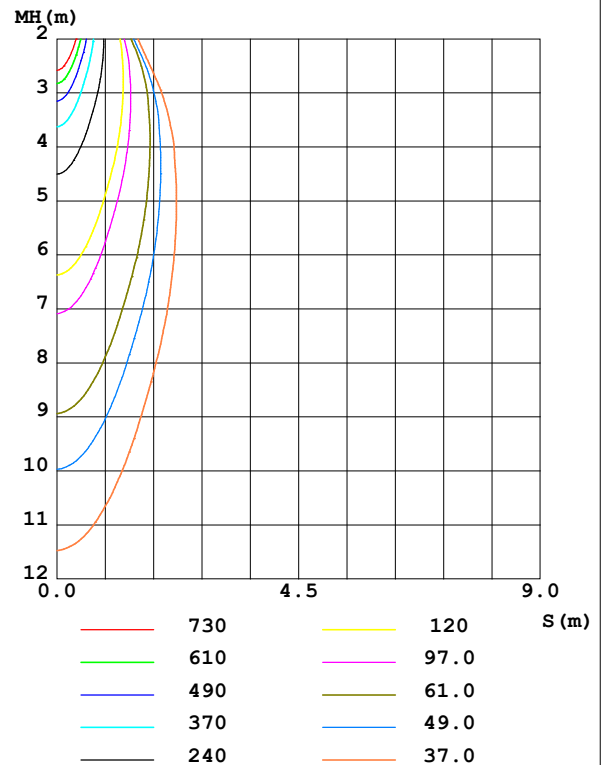
NAME: BL7069-LV-C21-3-3012	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 40.01 lm/W
MODEL		Imax (cd)	4876	S/MH(C0/180)	0.45	
NOMINAL POWER(W)	21	LOR(%)	33.6	S/MH(C90/270)	0.25	
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	840.13	η UP,DN(C0-180)	0.0,17.5	
NOMINAL FLUX(lm)	2500	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,16.1	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE(V)	24	η down (%)	33.6	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:
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	3105	1936	1109	1901	3126	1804	940.5	1687	0- 10	285.5	285.5	34,11.4
20	1606	308.8	152.5	275.6	1543	252.7	136.3	240.2	10- 20	270.6	556.2	66.2,22.2
30	779.7	82.00	57.47	77.85	714.9	71.35	52.00	71.58	20- 30	140.7	696.8	82.9,27.9
40	239.4	35.28	29.73	33.55	245.2	30.05	27.37	31.52	30- 40	65.32	762.2	90.7,30.5
50	138.3	16.97	14.04	16.21	109.2	14.15	13.21	14.77	40- 50	31.98	794.1	94.5,31.8
60	92.76	7.752	6.001	7.440	73.70	6.280	4.900	6.334	50- 60	18.80	813.0	96.8,32.5
70	70.77	4.546	3.750	4.343	87.10	3.416	2.332	3.361	60- 70	13.26	826.2	98.3,33
80	43.90	2.804	2.665	2.802	63.88	1.796	1.458	1.711	70- 80	10.35	836.6	99.6,33.5
90	2.110	0	0	0	1.324	0	0	0	80- 90	3.567	840.1	100,33.6
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): 781.12 lm

%lum = 93.0%

%lamp = 31.2%

Conical surface Flux(120deg): 812.95 lm

%lum = 96.8%

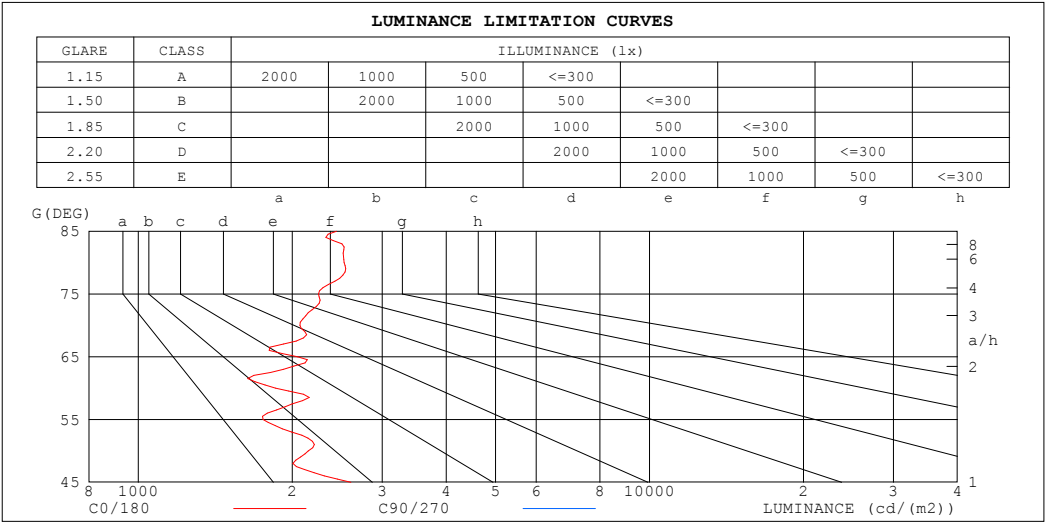
%lamp = 32.5%

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-C21-3-3012	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2439	110
80	2528	153
75	2250	126
70	2069	110
65	2049	109
60	1855	120
55	1753	159
50	2151	218
45	2605	299

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%

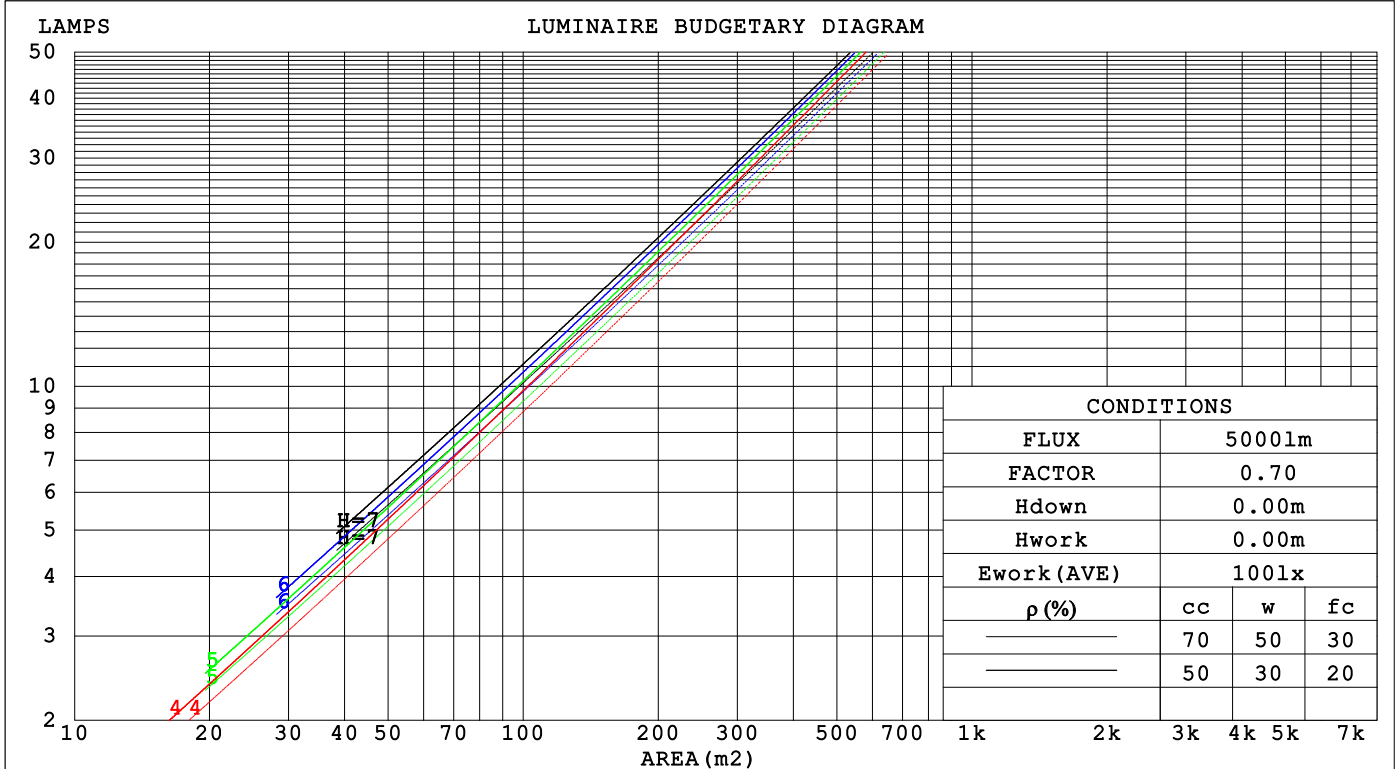
Test Distance:10.650m [K=1.0000]

Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: BL7069-LV-C21-3-3012	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			Coefficients of Utilization(CU)												
0.0	.40	.40	.40	.39	.39	.39	.37	.37	.37	.36	.36	.36	.34	.34	.34	.34
1.0	.37	.37	.36	.37	.36	.35	.35	.35	.34	.34	.34	.33	.33	.33	.32	.32
2.0	.35	.34	.33	.35	.34	.33	.34	.33	.32	.33	.32	.31	.32	.31	.31	.30
3.0	.33	.32	.31	.33	.32	.31	.32	.31	.30	.31	.30	.30	.31	.30	.29	.29
4.0	.32	.30	.29	.31	.30	.29	.31	.30	.29	.30	.29	.28	.30	.29	.28	.27
5.0	.30	.29	.28	.30	.29	.27	.30	.28	.27	.29	.28	.27	.29	.28	.27	.26
6.0	.29	.28	.26	.29	.27	.26	.28	.27	.26	.28	.27	.26	.28	.27	.26	.25
7.0	.28	.26	.25	.28	.26	.25	.27	.26	.25	.27	.26	.25	.27	.26	.25	.24
8.0	.27	.25	.24	.27	.25	.24	.27	.25	.24	.26	.25	.24	.26	.25	.24	.24
9.0	.26	.25	.23	.26	.24	.23	.26	.24	.23	.25	.24	.23	.25	.24	.23	.23
10.0	.25	.24	.23	.25	.24	.23	.25	.24	.23	.25	.23	.23	.24	.23	.23	.22



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-C21-3-3012	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	.055 .031 .010	.053 .030 .010	.049 .028 .009	.045 .026 .008	.041 .024 .008	
2.0	.051 .028 .009	.049 .027 .008	.046 .025 .008	.042 .024 .007	.039 .022 .007	
3.0	.047 .025 .008	.046 .025 .007	.043 .023 .007	.040 .022 .007	.038 .021 .006	
4.0	.044 .023 .007	.043 .022 .007	.040 .021 .006	.038 .020 .006	.036 .019 .006	
5.0	.041 .021 .006	.040 .021 .006	.038 .020 .006	.036 .019 .006	.034 .018 .006	
6.0	.039 .020 .006	.038 .019 .006	.036 .019 .005	.034 .018 .005	.033 .017 .005	
7.0	.037 .018 .005	.036 .018 .005	.034 .017 .005	.033 .017 .005	.031 .016 .005	
8.0	.035 .017 .005	.034 .017 .005	.033 .016 .005	.031 .016 .005	.030 .015 .004	
9.0	.033 .016 .004	.033 .016 .004	.031 .015 .004	.030 .015 .004	.029 .015 .004	
10.0	.032 .015 .004	.031 .015 .004	.030 .015 .004	.029 .014 .004	.028 .014 .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	.064 .064 .064	.055 .055 .055	.037 .037 .037	.021 .021 .021	.007 .007 .007	
1.0	.057 .053 .049	.049 .045 .042	.033 .031 .029	.019 .018 .017	.006 .006 .005	
2.0	.052 .045 .039	.044 .038 .033	.030 .027 .023	.017 .015 .014	.006 .005 .004	
3.0	.047 .038 .031	.040 .033 .027	.028 .023 .019	.016 .013 .011	.005 .004 .004	
4.0	.043 .033 .025	.037 .029 .022	.025 .020 .016	.015 .012 .009	.005 .004 .003	
5.0	.040 .029 .021	.034 .025 .018	.023 .018 .013	.014 .010 .008	.004 .003 .003	
6.0	.037 .026 .018	.032 .022 .016	.022 .016 .011	.013 .009 .007	.004 .003 .002	
7.0	.034 .023 .015	.029 .020 .013	.020 .014 .009	.012 .008 .006	.004 .003 .002	
8.0	.032 .021 .013	.028 .018 .011	.019 .013 .008	.011 .007 .005	.004 .002 .002	
9.0	.030 .019 .011	.026 .016 .010	.018 .012 .007	.010 .007 .004	.003 .002 .001	
10.0	.028 .017 .010	.024 .015 .009	.017 .011 .006	.010 .006 .004	.003 .002 .001	

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-C21-3-3012					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	8.8	8.2	9.0	9.1	-4.2	-3.4	-4.0	-3.2	-3.1
3H					9.9	10.6	10.1	10.8	11.0	-3.7	-3.0	-3.4	-2.8	-2.6
4H					11.1	11.8	11.4	12.0	12.3	-3.3	-2.6	-3.1	-2.4	-2.2
6H					12.6	13.2	12.9	13.5	13.7	-2.9	-2.2	-2.6	-2.0	-1.8
8H					13.2	13.8	13.5	14.1	14.3	-2.6	-2.0	-2.3	-1.8	-1.5
12H					13.6	14.2	13.9	14.5	14.8	-2.5	-1.9	-2.2	-1.6	-1.3
4H 2H					7.8	8.5	8.1	8.7	8.9	-3.8	-3.1	-3.5	-2.9	-2.7
3H					9.7	10.3	10.0	10.5	10.8	-3.2	-2.6	-2.9	-2.3	-2.0
4H					10.9	11.5	11.3	11.8	12.1	-2.7	-2.2	-2.4	-1.9	-1.6
6H					12.4	12.9	12.8	13.2	13.6	-2.1	-1.6	-1.8	-1.3	-1.0
8H					13.1	13.6	13.5	13.9	14.3	-1.8	-1.4	-1.4	-1.0	-0.7
12H					13.7	14.1	14.1	14.5	14.9	-1.6	-1.2	-1.2	-0.8	-0.4
8H 4H					10.8	11.2	11.2	11.6	11.9	-2.3	-1.8	-1.9	-1.5	-1.1
6H					12.3	12.7	12.7	13.0	13.5	-1.6	-1.2	-1.2	-0.8	-0.4
8H					13.0	13.3	13.4	13.7	14.2	-1.2	-0.9	-0.8	-0.5	-0.0
12H					13.6	13.9	14.0	14.3	14.8	-0.9	-0.6	-0.4	-0.2	0.3
12H 4H					10.7	11.1	11.1	11.5	11.9	-2.2	-1.7	-1.8	-1.4	-1.0
6H					12.2	12.6	12.7	13.0	13.4	-1.4	-1.1	-0.9	-0.6	-0.2
8H					12.9	13.2	13.4	13.7	14.1	-1.0	-0.7	-0.5	-0.2	0.2
Variations with the observer position at spacings(CIE Pub.117):														
S = 1.0H					+ 1.0 / - 0.6					+ 0.6 / - 0.8				
1.5H					+ 2.0 / - 2.1					+ 0.5 / - 0.6				
2.0H					+ 3.0 / - 3.3					+ 1.1 / - 0.8				

CIE Pub.117, 2500 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 3.2$)
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-C21-3-3012	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

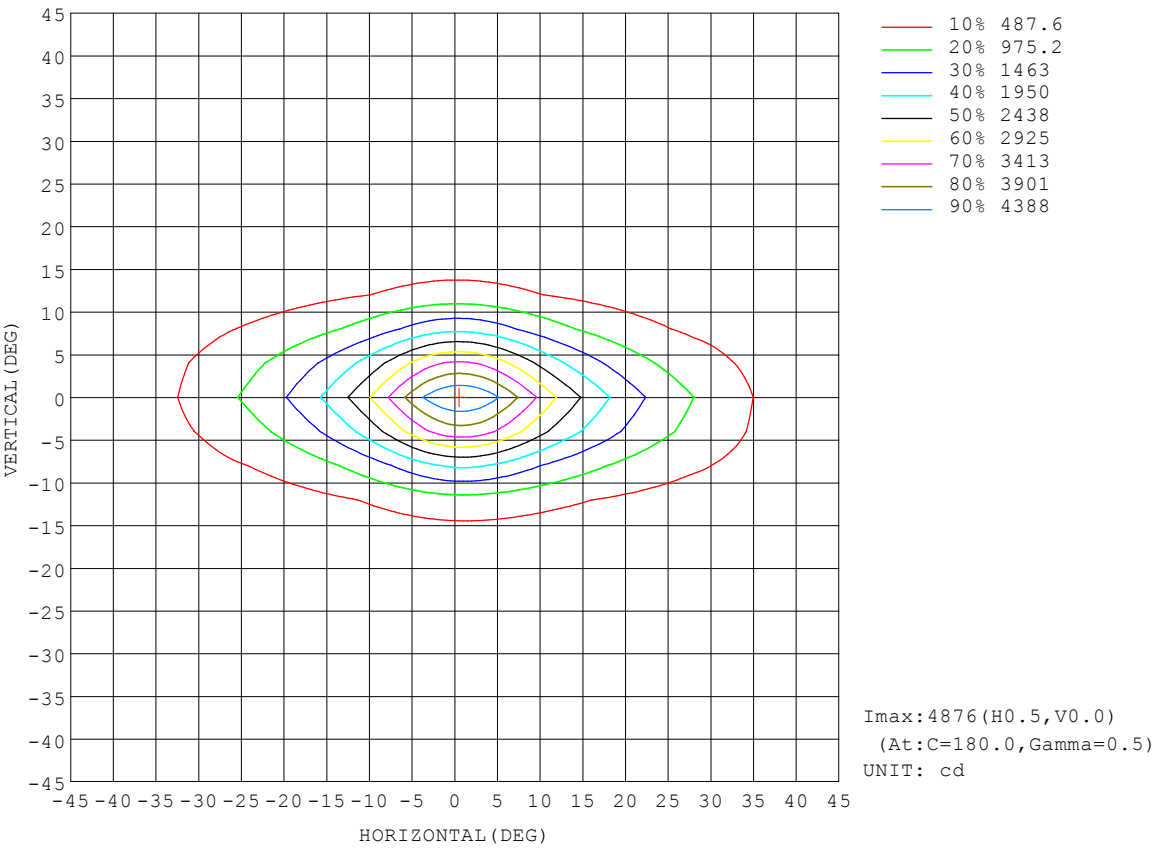
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	29	27	25	29	27	25	28	26	25	24
0.80	31	29	28	31	29	28	31	29	28	26
1.00	33	31	30	33	31	29	32	31	29	28
1.25	34	32	31	34	32	31	33	32	31	29
1.50	35	33	32	35	33	32	34	33	32	30
2.00	36	35	33	36	34	33	35	34	33	31
2.50	37	35	34	36	35	34	35	34	33	31
3.00	37	36	35	37	36	35	36	35	34	32
4.00	38	37	36	37	36	36	36	35	35	32
5.00	38	38	37	38	37	36	36	36	35	33
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

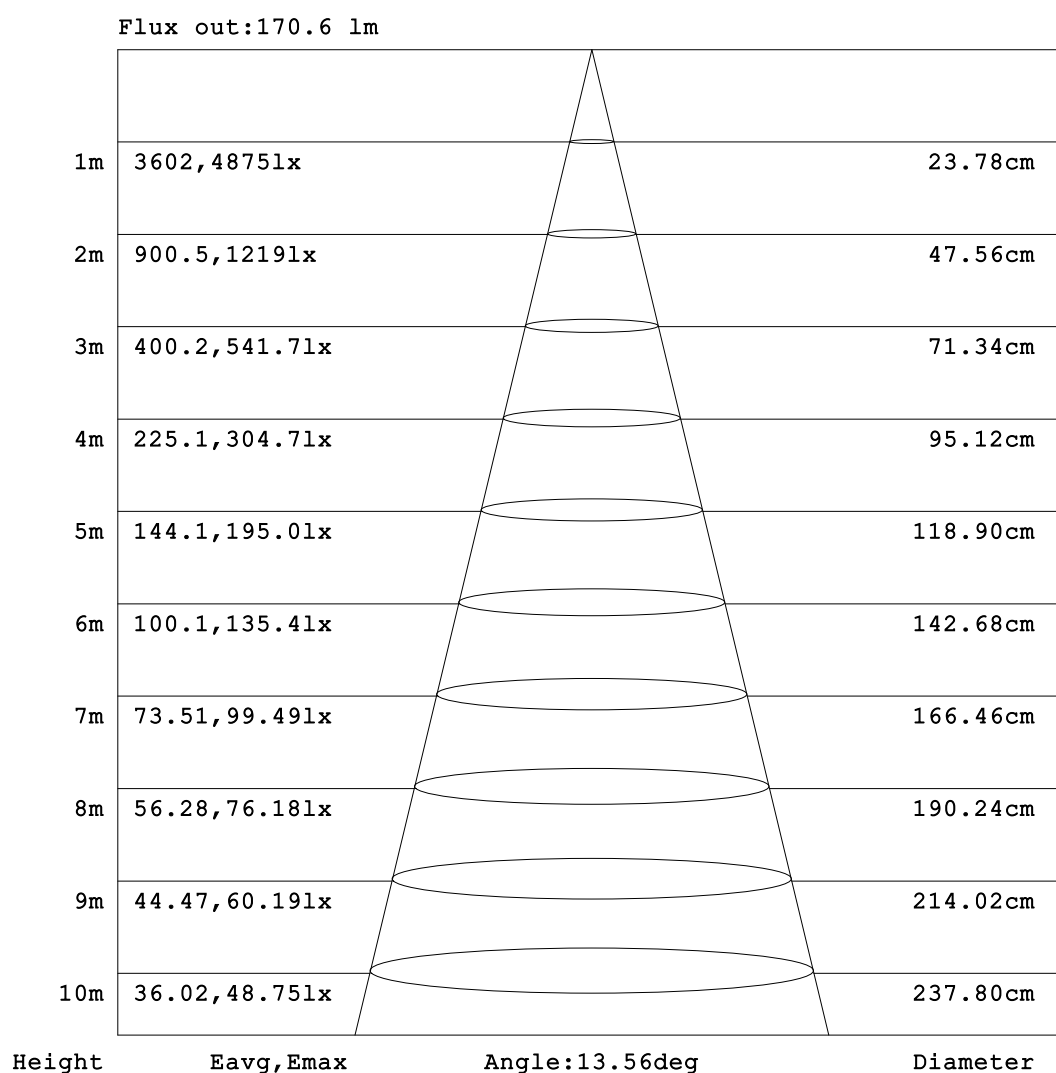
NAME: BL7069-LV-C21-3-3012	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



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:

AAI Figure

NAME: BL7069-LV-C21-3-3012	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



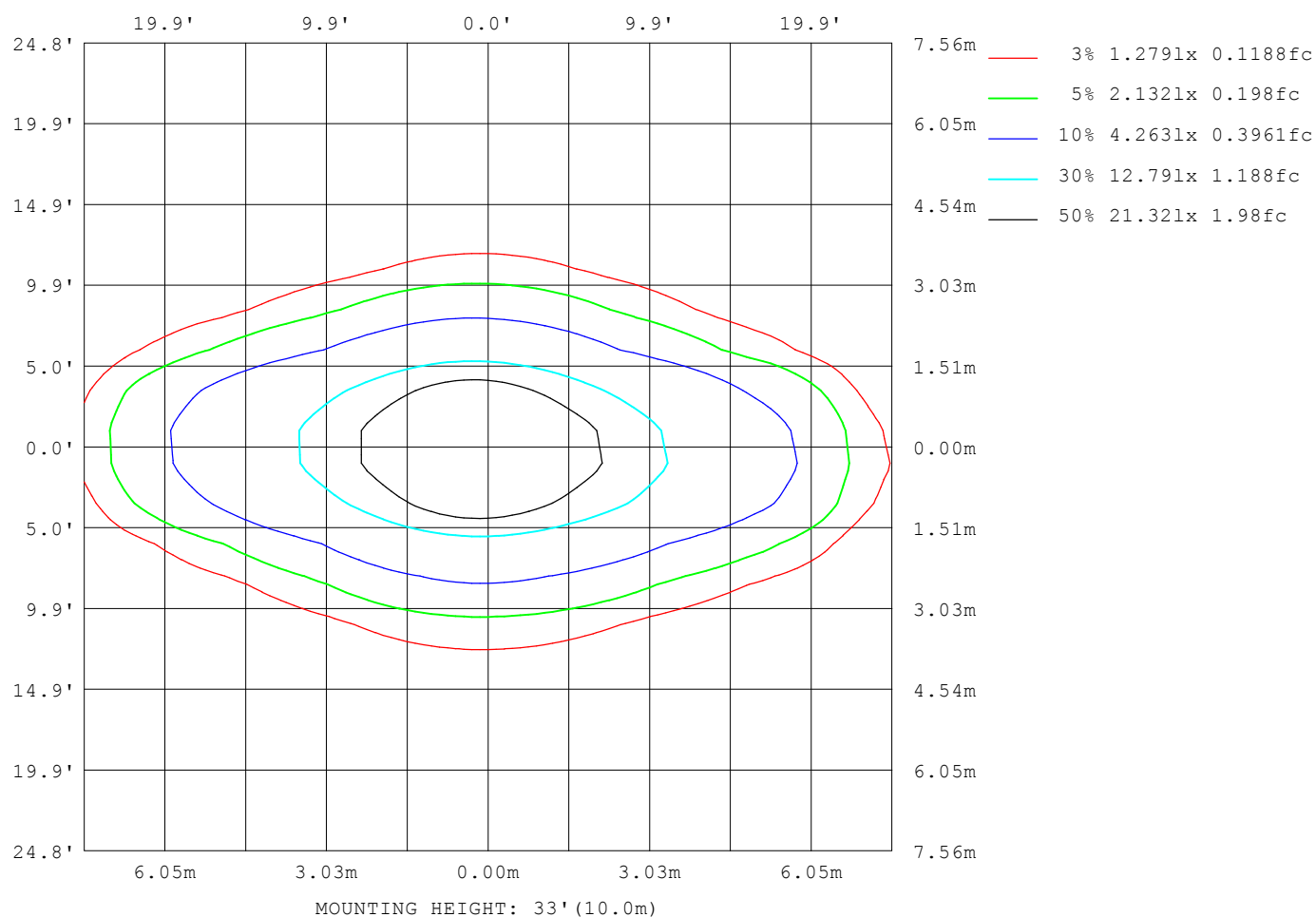
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

V(B) Range: -85 - 85 DEG
V(B) Interval: 2.0 DEG
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-C21-3-3012	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-C21-3-3012	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

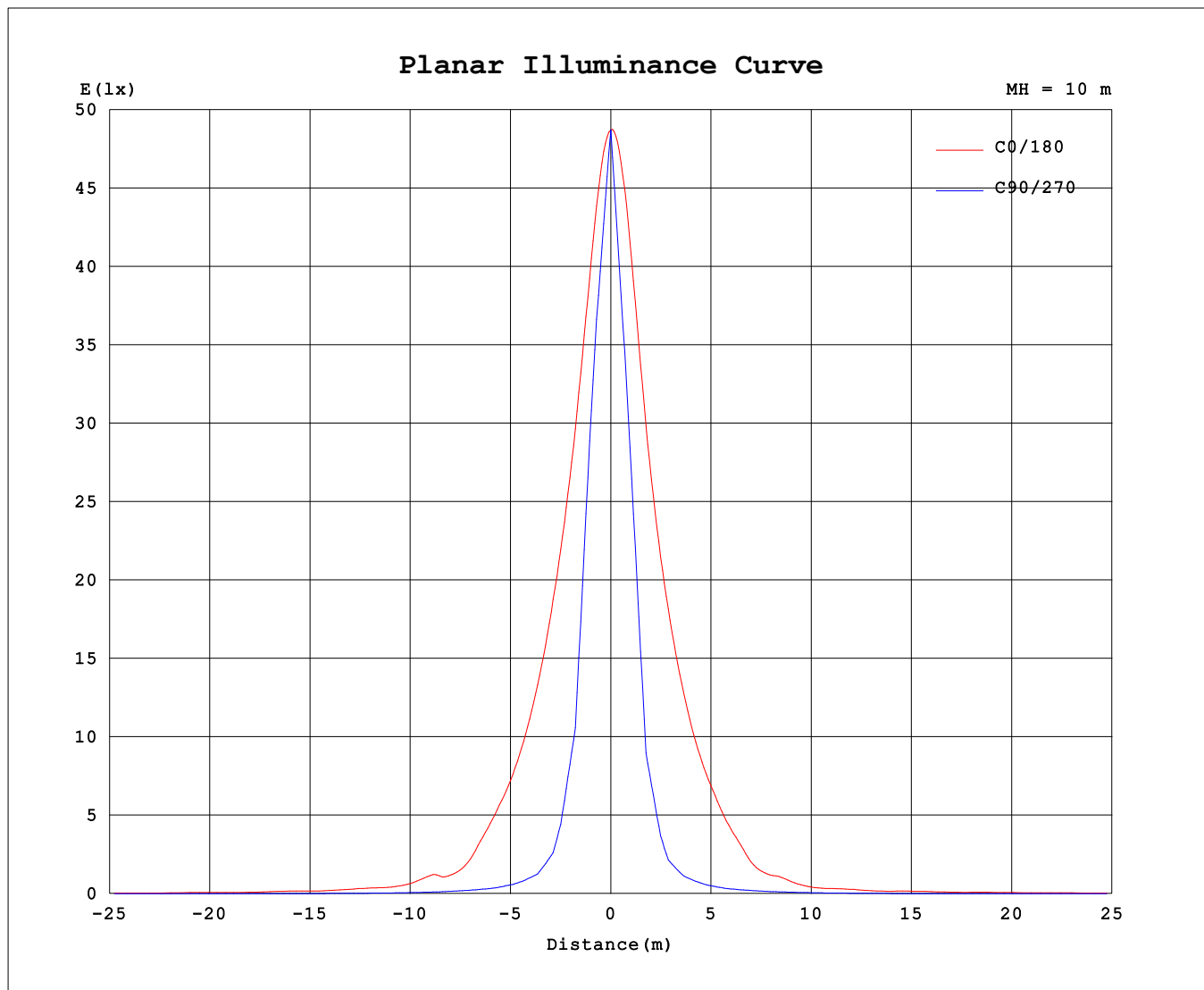
AvgL	cd/m2
L_0~180 (65) av	1901
L_0~180 (75) av	2781
L_0~180 (85) av	2479
L_90~270 (65) av	93
L_90~270 (75) av	98
L_90~270 (85) av	87
L_45 (65) av	120
L_45 (75) av	119
L_45 (85) av	154

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-IV-C21-3-3012	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-LV-C21-3-3012	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:

