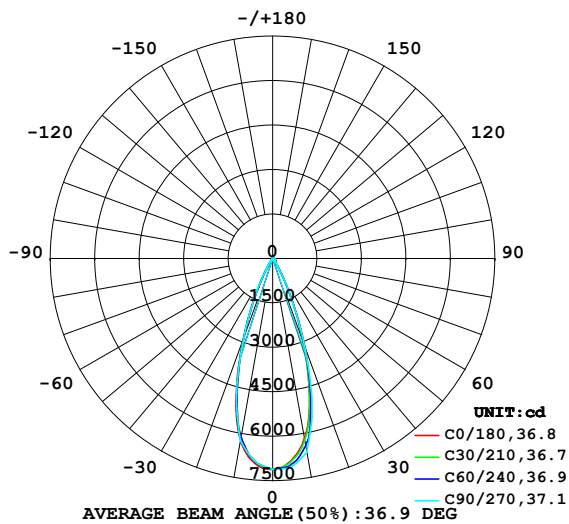


LUMINAIRE PHOTOMETRIC TEST REPORT

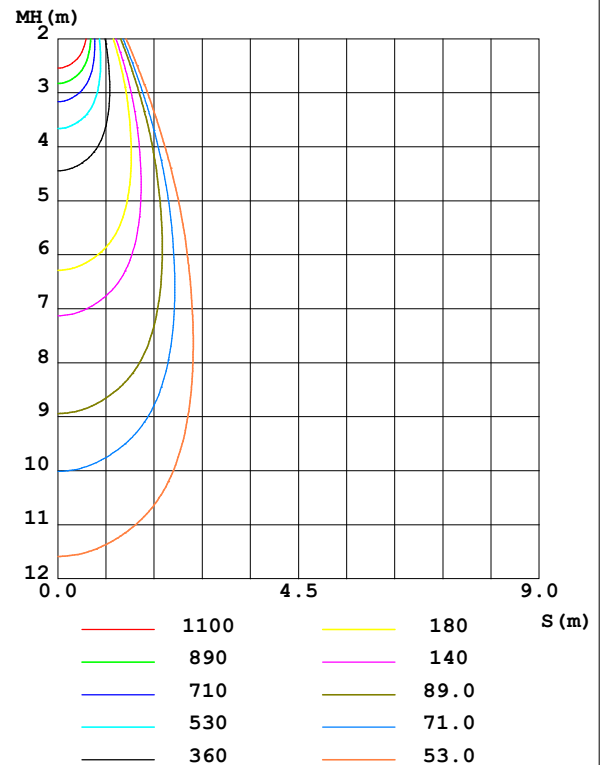
NAME: BL7069-C30-3-36-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 102.27 lm/W
MODEL		Imax (cd)	7118	S/MH (C0/180)		0.58
NOMINAL POWER(W)	28	LOR (%)	71.6	S/MH (C90/270)		0.57
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2863.7	η UP,DN (C0-180)		0.0,36.9
NOMINAL FLUX(lm)	4000	CIE CLASS	DIRECT	η UP,DN (C180-360)		0.0,34.7
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM		0.50
TEST VOLTAGE (V)	220.2	η down (%)	71.6	CIBSE SHR MAX		0.60

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:2024-01-22

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	6178	6288	6644	6336	6242	6089	6253	6020	0- 10	638.9	638.9	22.3,16
20	3027	3111	3131	3024	2928	2854	2830	2867	10- 20	1291	1930	67.4,48.2
30	604.7	590.2	528.2	527.0	499.8	499.8	457.9	534.2	20- 30	690.1	2620	91.5,65.5
40	144.0	99.75	97.64	92.24	92.63	81.17	78.33	83.91	30- 40	138.2	2758	96.3,68.9
50	80.59	51.58	51.17	50.39	57.27	40.45	39.46	40.05	40- 50	52.64	2811	98.1,70.3
60	33.81	22.92	22.73	22.27	30.27	14.82	14.45	15.40	50- 60	31.74	2842	99.3,71.1
70	10.54	8.508	8.816	8.873	17.75	2.989	3.046	3.769	60- 70	12.19	2854	99.7,71.4
80	5.053	5.985	6.464	6.334	15.66	1.860	2.214	2.635	70- 80	6.052	2861	99.9,71.5
90	2.869	0	0	0	5.338	0	0	0	80- 90	3.192	2864	100,71.6
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): 2787.2 lm

%lum = 97.3%

%lamp = 69.7%

Conical surface Flux(120deg): 2842.3 lm

%lum = 99.3%

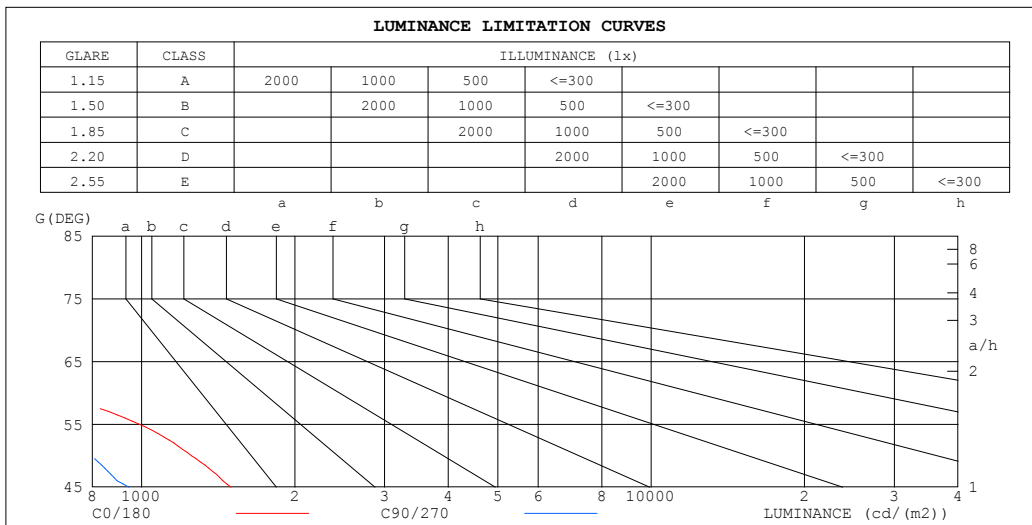
%lamp = 71.1%

H(β) Range:-90 - 90DEG
 H(β) Interval: 0.5DEG
 Test Speed: MEDIUM
 Temperature:25.3°C
 Operators:ZT
 Test Date:2024-01-22

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: BL7069-C30-3-36-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	441	325
80	291	372
75	275	295
70	308	258
65	445	326
60	676	455
55	991	656
50	1254	796
45	1497	945

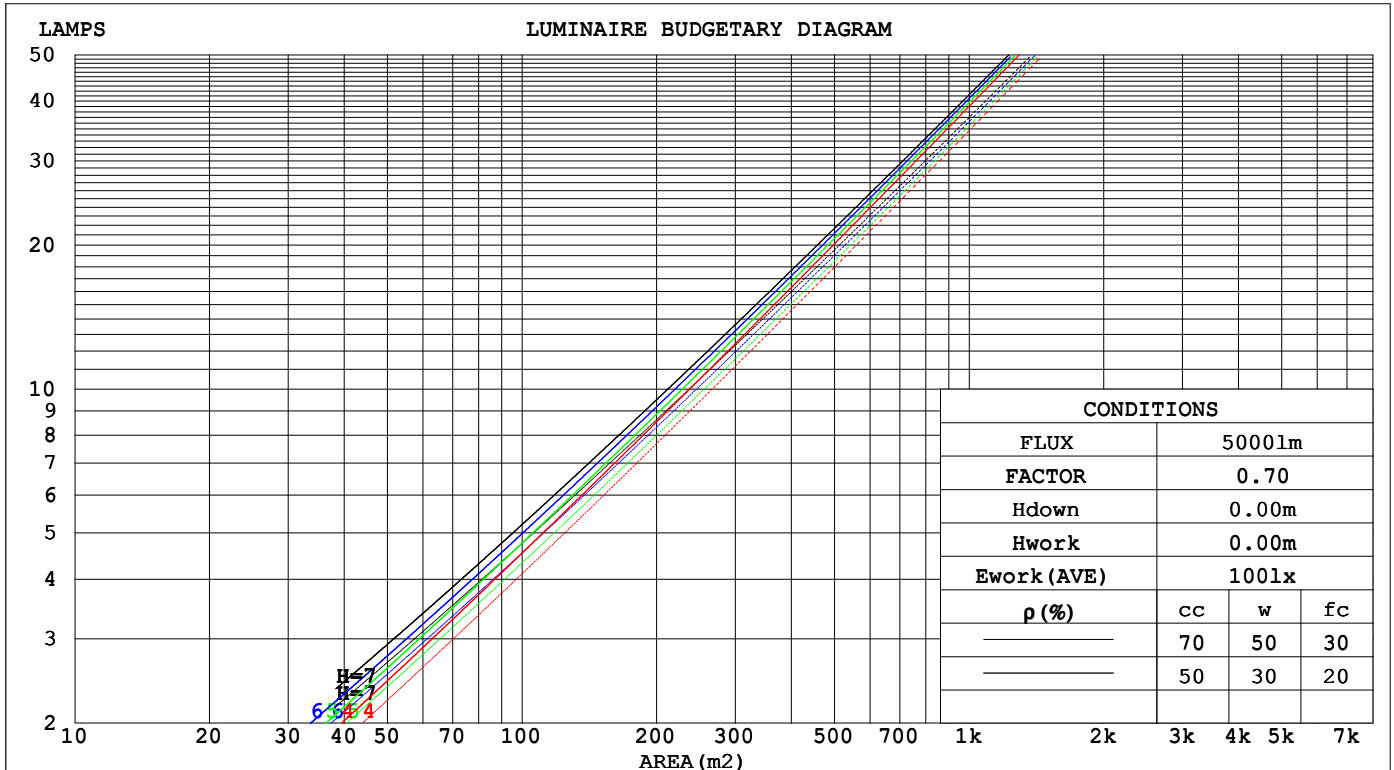
H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:ZT
Test Date:2024-01-22

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: BL7069-C30-3-36-NS	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	.85	.85	.85	.83	.83	.83	.80	.80	.80	.76	.76	.76	.73	.73	.73	.72														
1.0	.80	.79	.77	.79	.77	.76	.76	.75	.74	.73	.72	.72	.71	.70	.70	.68														
2.0	.76	.73	.71	.75	.72	.71	.72	.71	.69	.70	.69	.68	.68	.67	.66	.65														
3.0	.72	.69	.67	.71	.68	.66	.69	.67	.65	.68	.66	.64	.66	.64	.63	.62														
4.0	.68	.65	.63	.68	.65	.62	.66	.64	.62	.65	.63	.61	.64	.62	.60	.59														
5.0	.65	.62	.60	.65	.62	.59	.64	.61	.59	.62	.60	.58	.61	.59	.58	.57														
6.0	.63	.59	.57	.62	.59	.56	.61	.58	.56	.60	.58	.56	.59	.57	.55	.55														
7.0	.60	.57	.54	.60	.56	.54	.59	.56	.54	.58	.55	.53	.57	.55	.53	.52														
8.0	.58	.54	.52	.57	.54	.52	.57	.54	.52	.56	.53	.51	.55	.53	.51	.50														
9.0	.55	.52	.50	.55	.52	.50	.55	.52	.50	.54	.51	.49	.53	.51	.49	.49														
10.0	.53	.50	.48	.53	.50	.48	.53	.50	.48	.52	.50	.48	.52	.49	.48	.47														



H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:ZT
Test Date:2024-01-22

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: BL7069-C30-3-36-NS	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	.110	.062	.020	.105	.060	.019	.096	.055	.018	.088	.051	.016	.080	.047	.015															
2.0	.103	.056	.017	.099	.054	.017	.091	.051	.016	.085	.047	.015	.078	.044	.014															
3.0	.096	.051	.015	.093	.050	.015	.087	.047	.014	.081	.044	.014	.076	.042	.013															
4.0	.091	.047	.014	.088	.046	.014	.083	.044	.013	.078	.042	.013	.073	.040	.012															
5.0	.086	.044	.013	.084	.043	.012	.079	.041	.012	.075	.039	.012	.071	.038	.011															
6.0	.082	.041	.012	.080	.040	.012	.076	.039	.011	.072	.037	.011	.068	.036	.011															
7.0	.078	.038	.011	.076	.038	.011	.072	.037	.011	.069	.035	.010	.066	.034	.010															
8.0	.074	.036	.010	.073	.036	.010	.070	.035	.010	.067	.034	.010	.064	.033	.010															
9.0	.071	.034	.010	.070	.034	.010	.067	.033	.009	.064	.032	.009	.062	.031	.009															
10.0	.068	.033	.009	.067	.032	.009	.065	.032	.009	.062	.031	.009	.060	.030	.009															

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	.136	.136	.136	.117	.117	.117	.080	.080	.080	.046	.046	.046	.015	.015	.015	
1.0	.121	.113	.105	.104	.097	.090	.071	.067	.063	.041	.039	.036	.013	.012	.012	
2.0	.109	.095	.083	.093	.082	.072	.064	.057	.050	.037	.033	.029	.012	.011	.010	
3.0	.099	.081	.067	.085	.070	.058	.058	.049	.041	.034	.028	.024	.011	.009	.008	
4.0	.091	.070	.055	.078	.061	.048	.054	.042	.034	.031	.025	.020	.010	.008	.007	
5.0	.084	.062	.046	.072	.053	.040	.049	.037	.028	.029	.022	.017	.009	.007	.005	
6.0	.078	.055	.038	.067	.047	.033	.046	.033	.024	.027	.020	.014	.009	.006	.005	
7.0	.073	.049	.033	.062	.043	.028	.043	.030	.020	.025	.018	.012	.008	.006	.004	
8.0	.068	.044	.028	.059	.038	.024	.041	.027	.017	.024	.016	.010	.008	.005	.003	
9.0	.064	.040	.024	.055	.035	.021	.038	.025	.015	.022	.015	.009	.007	.005	.003	
10.0	.061	.037	.021	.052	.032	.019	.036	.023	.013	.021	.013	.008	.007	.004	.003	

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3℃
Operators:ZT
Test Date:2024-01-22

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: BL7069-C30-3-36-NS					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	0.5	1.2	0.7	1.4	1.5	-0.4	0.4	-0.2	0.5	0.7				
3H	0.5	1.2	0.8	1.4	1.6	-0.3	0.4	-0.0	0.6	0.8				
4H	0.6	1.2	0.8	1.4	1.7	-0.2	0.5	0.1	0.7	0.9				
6H	0.6	1.2	0.9	1.5	1.7	-0.0	0.6	0.3	0.9	1.1				
8H	0.7	1.3	1.0	1.5	1.8	0.1	0.7	0.4	1.0	1.2				
12H	0.8	1.3	1.1	1.6	1.9	0.3	0.8	0.6	1.1	1.4				
4H 2H	0.4	1.1	0.7	1.3	1.5	-0.4	0.3	-0.1	0.5	0.7				
3H	0.5	1.1	0.8	1.4	1.6	-0.2	0.4	0.1	0.6	0.9				
4H	0.6	1.1	0.9	1.4	1.7	-0.0	0.5	0.3	0.8	1.1				
6H	0.8	1.2	1.1	1.6	1.9	0.3	0.7	0.6	1.1	1.4				
8H	0.9	1.3	1.3	1.7	2.0	0.5	0.9	0.9	1.3	1.6				
12H	1.1	1.5	1.5	1.9	2.2	0.7	1.1	1.1	1.5	1.9				
8H 4H	0.6	1.0	1.0	1.4	1.7	-0.0	0.4	0.4	0.8	1.1				
6H	0.8	1.2	1.3	1.6	2.0	0.4	0.8	0.8	1.1	1.6				
8H	1.1	1.4	1.5	1.8	2.3	0.7	1.0	1.2	1.5	1.9				
12H	1.5	1.7	1.9	2.2	2.6	1.1	1.4	1.5	1.8	2.3				
12H 4H	0.6	1.0	1.0	1.3	1.7	-0.0	0.4	0.4	0.7	1.1				
6H	0.9	1.2	1.3	1.6	2.0	0.4	0.7	0.9	1.2	1.6				
8H	1.2	1.4	1.6	1.9	2.3	0.8	1.1	1.3	1.5	2.0				
Variations with the observer position at spacings(CIE Pub.117):														
S = 1.0H	+ 1.4 / - 1.4					+ 1.0 / - 1.0								
1.5H	+ 1.9 / - 1.8					+ 1.6 / - 0.7								
2.0H	+ 2.6 / - 2.3					+ 1.1 / - 1.2								

CIE Pub.117, 4000 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 4.8)
Area: 0.1 m2

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3℃
Operators:ZT
Test Date:2024-01-22

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: BL7069-C30-3-36-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

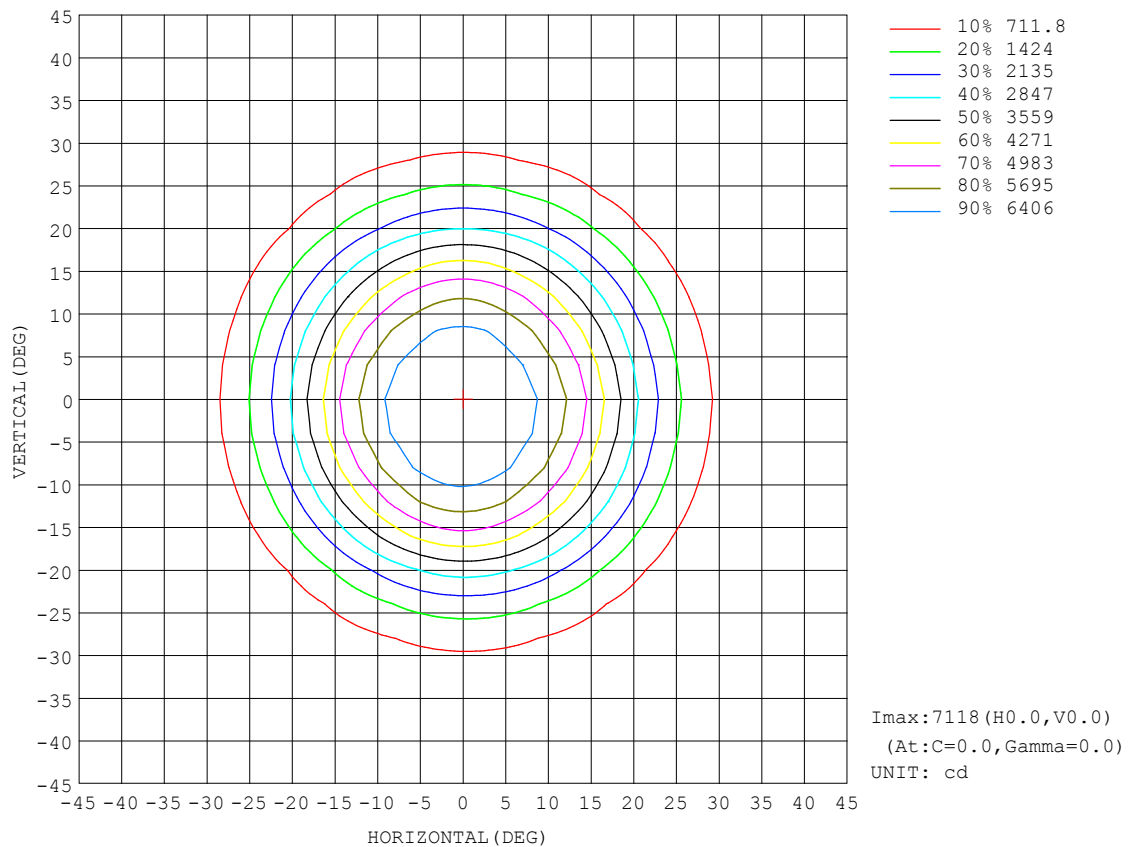
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	64	60	57	64	59	57	63	59	57	54
0.80	69	65	63	69	65	62	68	64	62	60
1.00	72	68	66	71	68	65	70	68	65	62
1.25	75	71	69	74	71	68	72	70	68	65
1.50	76	73	71	76	73	71	74	72	70	67
2.00	78	75	73	77	75	73	75	73	72	68
2.50	79	77	75	78	76	74	76	74	73	68
3.00	80	78	76	79	77	75	77	75	74	69
4.00	82	80	78	80	79	77	78	76	75	70
5.00	83	81	80	81	80	79	78	77	76	71
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended				SHR NOM = 1.25		

H(β) Range: -90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators: ZT
Test Date: 2024-01-22

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: BL7069-C30-3-36-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

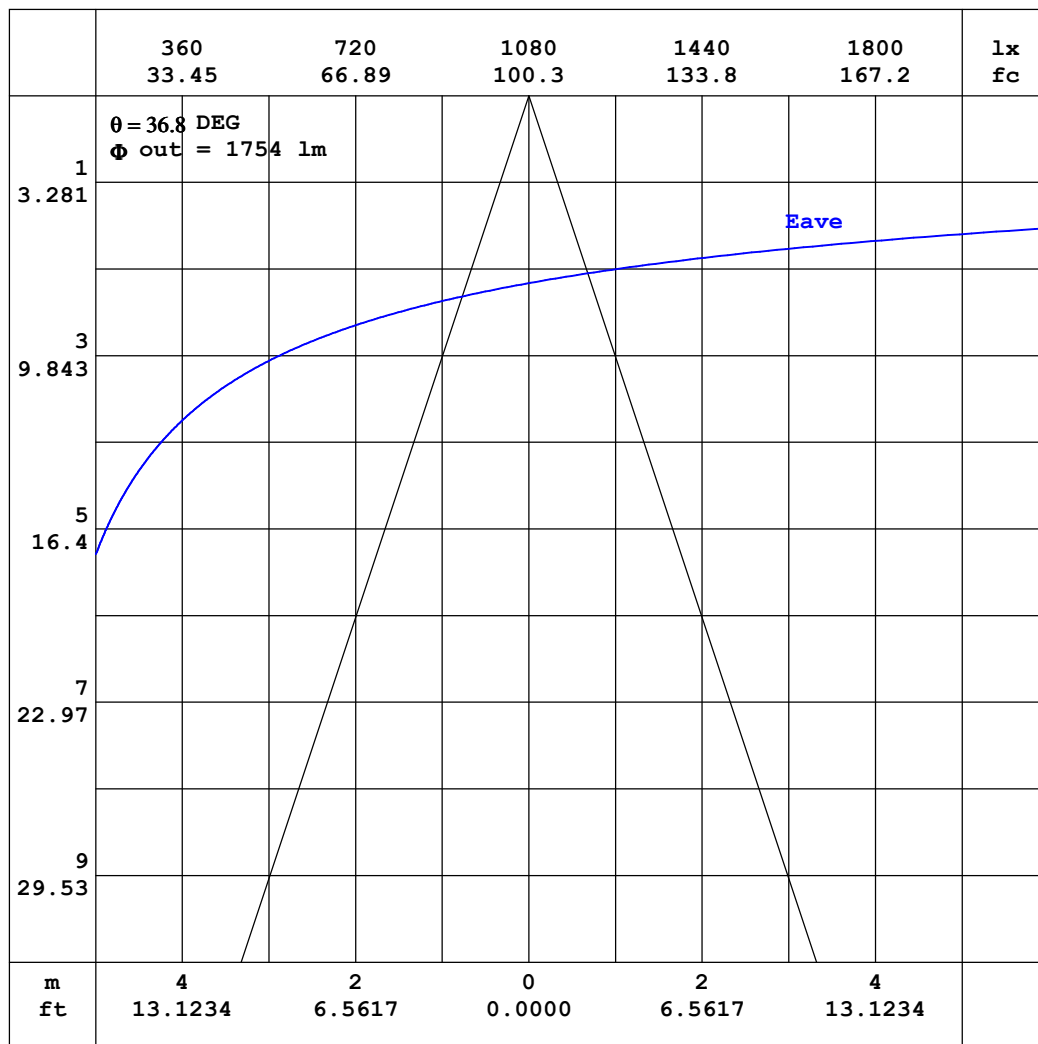


H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3℃
Operators:ZT
Test Date:2024-01-22

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 CURVES

NAME: BL7069-C30-3-36-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



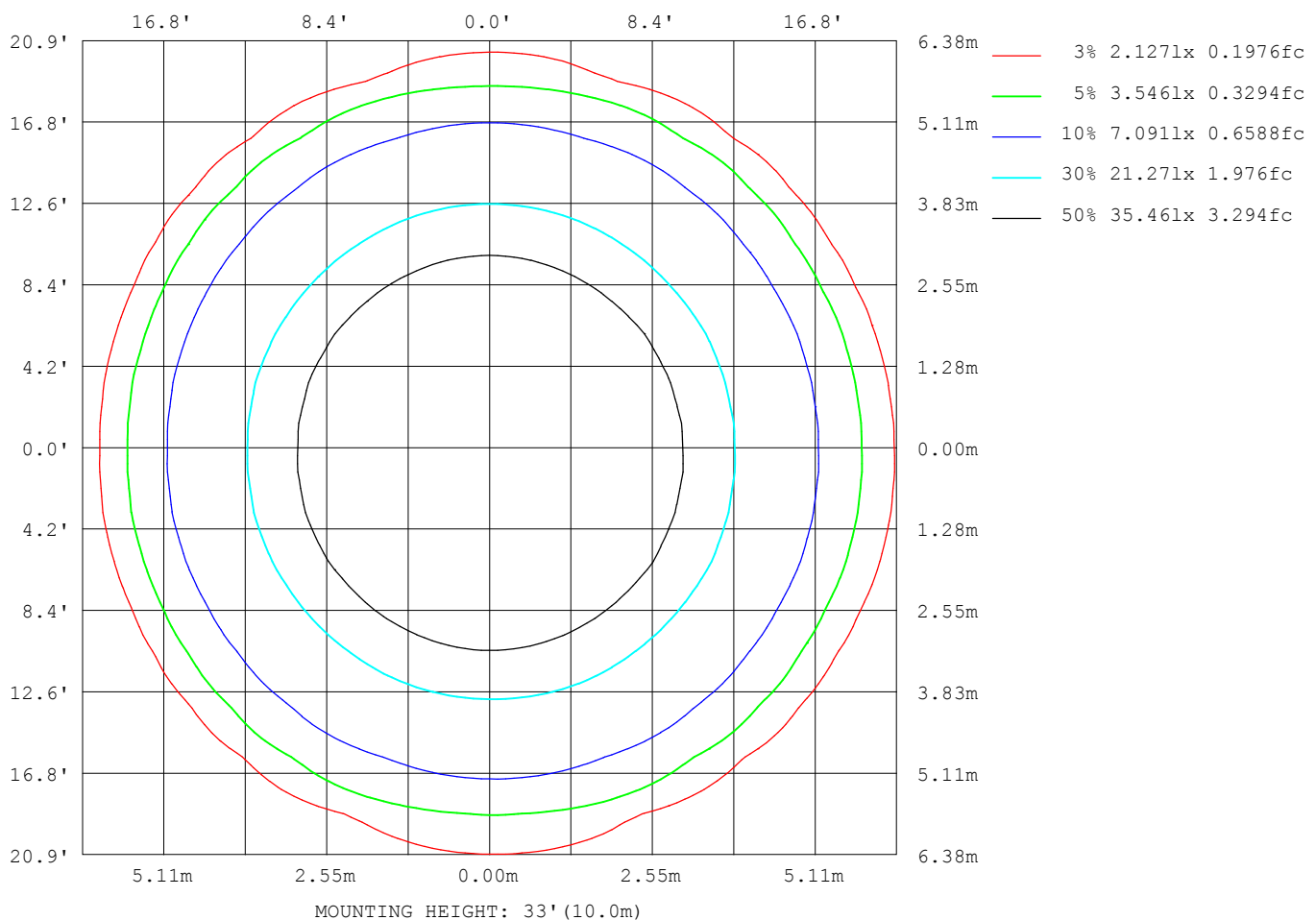
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range: -90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators: ZT
Test Date: 2024-01-22

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: BL7069-C30-3-36-NS	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:2024-01-22

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: BL7069-C30-3-36-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

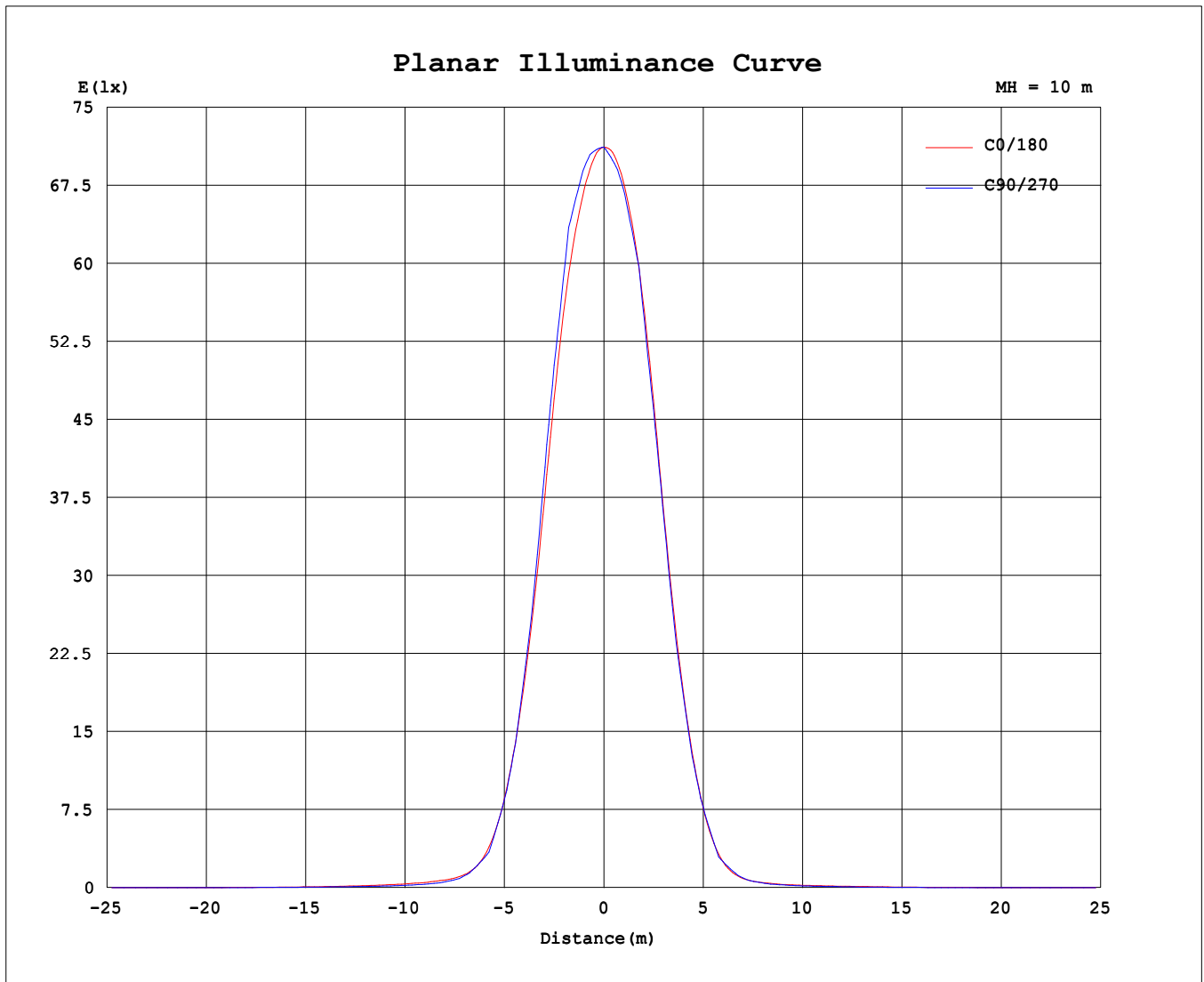
AvgL	cd/m2
L_0~180 (65) av	474
L_0~180 (75) av	460
L_0~180 (85) av	1049
L_90~270 (65) av	244
L_90~270 (75) av	193
L_90~270 (85) av	230
L_45 (65) av	239
L_45 (75) av	190
L_45 (85) av	424

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:2024-01-22

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:2024-01-22

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:

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:

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:

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:

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