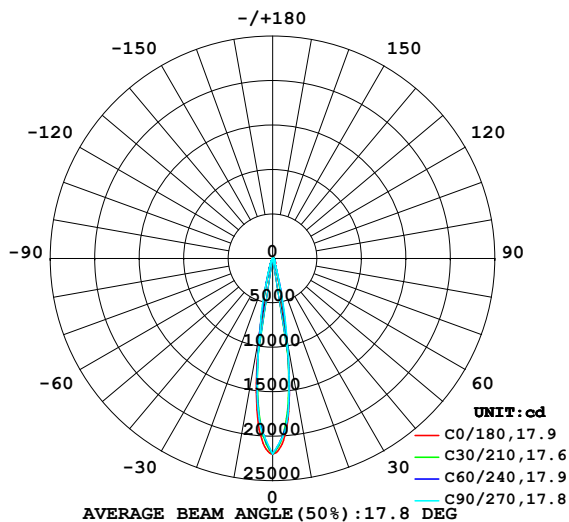


LUMINAIRE PHOTOMETRIC TEST REPORT

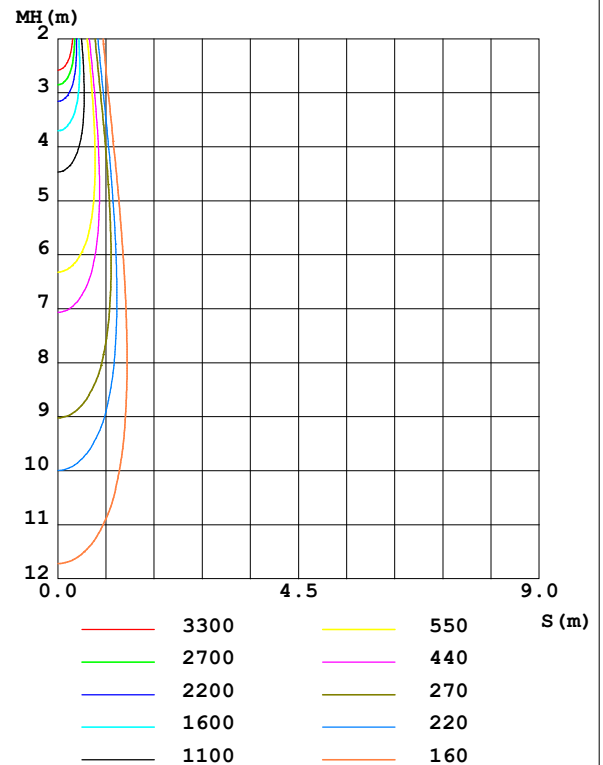
NAME: BL7069-C30-3-15-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 99.12 lm/W
MODEL		Imax (cd)	21980	S/MH (C0/180)		0.29
NOMINAL POWER(W)	28	LOR (%)	69.6	S/MH (C90/270)		0.30
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2785.4	η UP,DN (C0-180)		0.0,35.9
NOMINAL FLUX(lm)	4000	CIE CLASS	DIRECT	η UP,DN (C180-360)		0.0,33.7
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM		0.00
TEST VOLTAGE (V)	220.3	η down (%)	69.6	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: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	888.5	933.3	932.4	916.8	861.9	862.1	827.7	856.7	0- 10	1413	1413	50.7, 35.3
20	114.4	113.3	114.7	110.0	102.2	103.7	101.1	103.4	10- 20	878.6	2292	82.3, 57.3
30	44.10	31.11	31.34	30.27	29.82	28.18	27.17	28.01	20- 30	266.9	2559	91.9, 64
40	19.75	11.82	11.71	11.56	12.77	10.11	10.12	10.24	30- 40	119.6	2678	96.2, 67
50	8.242	4.837	4.799	4.760	5.324	3.839	4.000	3.964	40- 50	59.57	2738	98.3, 68.4
60	2.881	1.861	1.961	1.879	2.724	1.197	1.149	1.291	50- 60	26.91	2765	99.3, 69.1
70	1.043	0.9297	1.036	0.9415	1.966	0.3466	0.3281	0.5187	60- 70	11.35	2776	99.7, 69.4
80	0.4287	0.6331	0.7093	0.7064	1.517	0.1497	0.1592	0.2596	70- 80	6.348	2782	99.9, 69.6
90	0.2594	0	0	0	0.4761	0	0	0	80- 90	3.051	2785	100, 69.6
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:X10cd									UNIT: lm		

Conical surface Flux(90deg): 2713.4 lm

%lum = 97.4%

%lamp = 67.8%

Conical surface Flux(120deg): 2764.6 lm

%lum = 99.3%

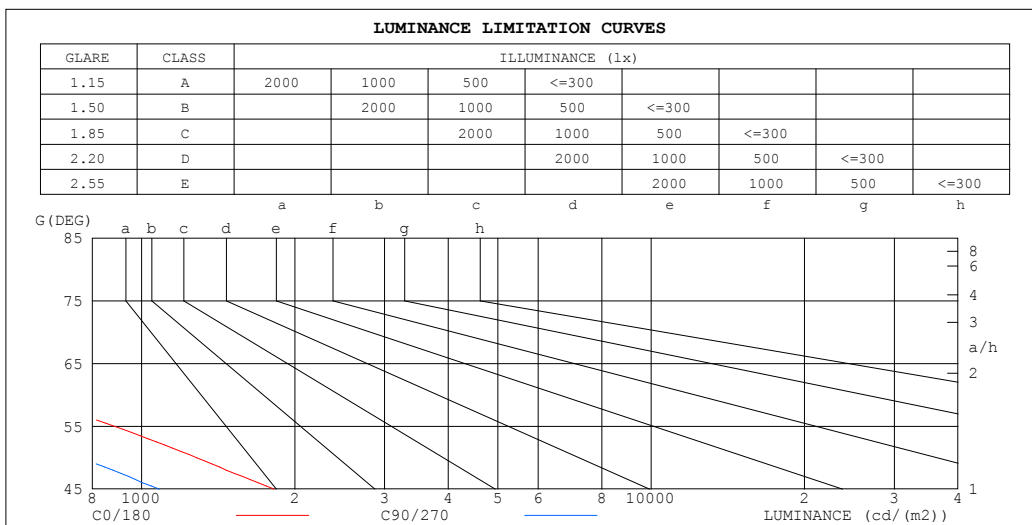
%lamp = 69.1%

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-C30-3-15-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	374	327
80	247	408
75	253	343
70	305	303
65	398	324
60	576	392
55	885	542
50	1282	747
45	1821	1084

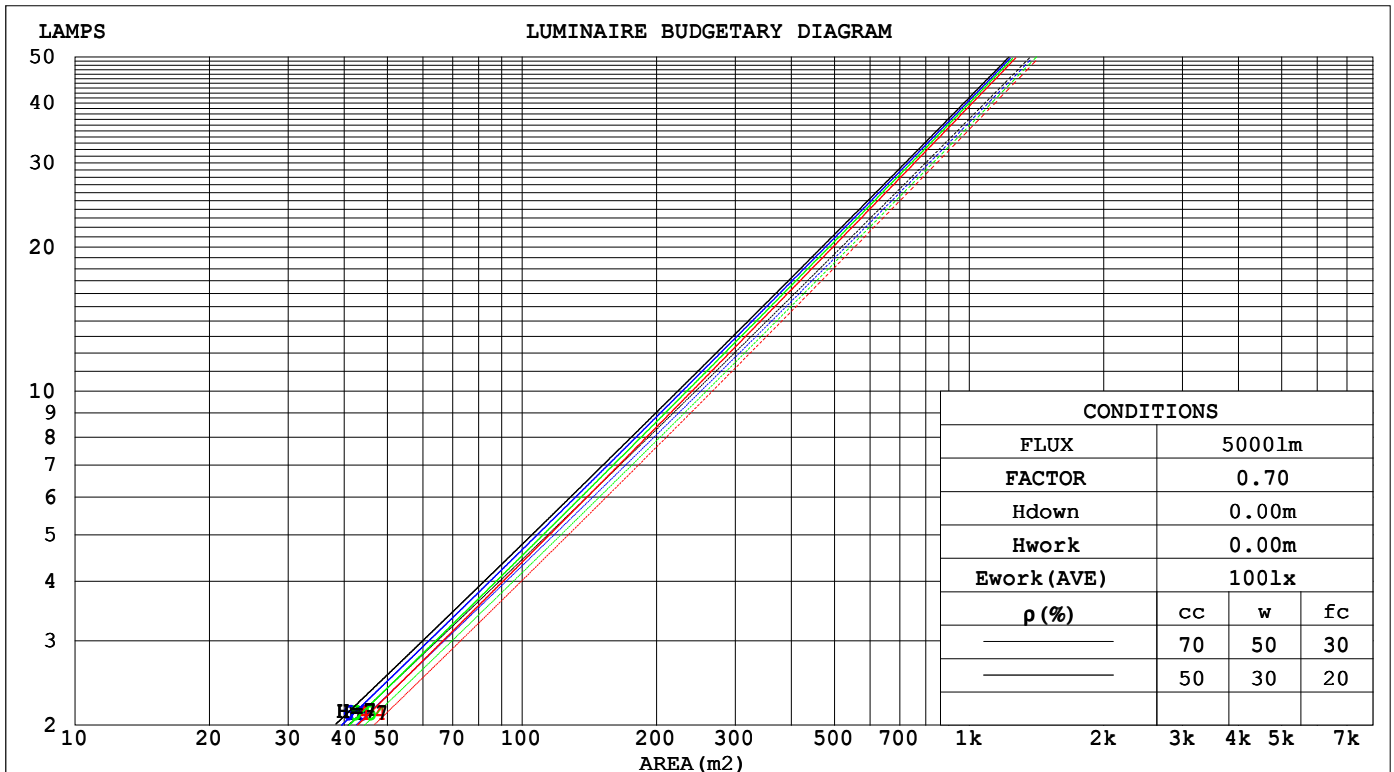
H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:ZT
Test Date:2024-01-22

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-C30-3-15-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	.83	.83	.83	.81	.81	.81	.77	.77	.77	.74	.74	.74	.71	.71	.71	.70
1.0	.79	.77	.76	.77	.76	.75	.75	.74	.73	.72	.71	.71	.70	.69	.69	.67
2.0	.75	.73	.72	.74	.72	.71	.72	.71	.69	.70	.69	.68	.68	.67	.66	.65
3.0	.72	.70	.68	.71	.69	.67	.70	.68	.66	.68	.67	.65	.67	.65	.64	.64
4.0	.70	.67	.65	.69	.67	.65	.68	.66	.64	.66	.65	.63	.65	.64	.63	.62
5.0	.68	.65	.63	.67	.64	.63	.66	.64	.62	.65	.63	.62	.64	.62	.61	.60
6.0	.66	.63	.61	.65	.63	.61	.64	.62	.60	.63	.61	.60	.63	.61	.60	.59
7.0	.64	.61	.59	.63	.61	.59	.63	.60	.59	.62	.60	.59	.61	.60	.58	.58
8.0	.62	.60	.58	.62	.59	.58	.61	.59	.57	.61	.59	.57	.60	.58	.57	.56
9.0	.61	.58	.56	.60	.58	.56	.60	.58	.56	.59	.57	.56	.59	.57	.56	.55
10.0	.59	.57	.55	.59	.57	.55	.59	.57	.55	.58	.56	.55	.58	.56	.55	.54



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-C30-3-15-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	.092	.053	.017	.088	.050	.016	.079	.045	.015	.071	.041	.013	.064	.037	.012		
2.0	.085	.047	.014	.081	.045	.014	.074	.041	.013	.068	.038	.012	.062	.035	.011		
3.0	.079	.042	.013	.076	.040	.012	.070	.038	.011	.064	.035	.011	.059	.033	.010		
4.0	.073	.038	.011	.071	.037	.011	.066	.035	.010	.061	.033	.010	.057	.031	.009		
5.0	.068	.035	.010	.066	.034	.010	.062	.032	.010	.058	.031	.009	.054	.029	.009		
6.0	.064	.032	.009	.062	.032	.009	.059	.030	.009	.055	.029	.008	.052	.028	.008		
7.0	.061	.030	.008	.059	.029	.008	.056	.028	.008	.053	.027	.008	.050	.026	.008		
8.0	.057	.028	.008	.056	.028	.008	.053	.027	.008	.051	.026	.007	.048	.025	.007		
9.0	.054	.026	.007	.053	.026	.007	.051	.025	.007	.049	.024	.007	.047	.024	.007		
10.0	.052	.025	.007	.051	.025	.007	.049	.024	.007	.047	.023	.007	.045	.023	.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	.133	.133	.133	.113	.113	.113	.077	.077	.077	.044	.044	.044	.014	.014	.014	
1.0	.117	.110	.103	.100	.094	.089	.068	.065	.062	.039	.038	.036	.013	.012	.012	
2.0	.104	.092	.083	.089	.080	.071	.061	.055	.050	.035	.032	.029	.011	.010	.010	
3.0	.093	.079	.067	.080	.068	.058	.055	.047	.041	.032	.028	.024	.010	.009	.008	
4.0	.084	.068	.056	.073	.059	.048	.050	.041	.034	.029	.024	.020	.009	.008	.007	
5.0	.077	.059	.047	.066	.051	.040	.045	.036	.029	.026	.021	.017	.008	.007	.006	
6.0	.070	.052	.039	.061	.045	.034	.042	.032	.024	.024	.019	.014	.008	.006	.005	
7.0	.065	.047	.034	.056	.040	.029	.039	.028	.021	.022	.017	.012	.007	.005	.004	
8.0	.060	.042	.029	.052	.036	.025	.036	.025	.018	.021	.015	.011	.007	.005	.004	
9.0	.056	.038	.025	.048	.033	.022	.033	.023	.016	.019	.014	.009	.006	.004	.003	
10.0	.052	.034	.022	.045	.030	.019	.031	.021	.014	.018	.012	.008	.006	.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-C30-3-15-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					0.1	0.7	0.3	0.8	1.0	-1.1	-0.5	-0.9	-0.3	-0.2
3H					0.2	0.7	0.4	0.9	1.1	-0.8	-0.2	-0.6	-0.1	0.1
4H					0.2	0.8	0.5	1.0	1.2	-0.6	-0.1	-0.3	0.2	0.4
6H					0.3	0.8	0.5	1.0	1.2	-0.3	0.2	-0.0	0.4	0.7
8H					0.3	0.8	0.6	1.1	1.3	-0.1	0.4	0.2	0.6	0.9
12H					0.4	0.9	0.7	1.1	1.4	0.0	0.5	0.3	0.8	1.0
4H 2H					0.0	0.6	0.3	0.8	1.0	-1.1	-0.5	-0.8	-0.3	-0.1
3H					0.2	0.6	0.5	0.9	1.2	-0.7	-0.2	-0.4	0.0	0.3
4H					0.3	0.7	0.6	1.0	1.3	-0.4	0.1	-0.0	0.4	0.7
6H					0.4	0.8	0.8	1.1	1.5	0.1	0.5	0.4	0.8	1.1
8H					0.5	0.9	0.9	1.2	1.6	0.3	0.7	0.7	1.1	1.4
12H					0.7	1.1	1.1	1.4	1.8	0.6	0.9	1.0	1.3	1.7
8H 4H					0.3	0.6	0.7	1.0	1.3	-0.3	0.0	0.0	0.4	0.7
6H					0.5	0.9	1.0	1.2	1.7	0.3	0.6	0.7	1.0	1.4
8H					0.8	1.1	1.2	1.5	1.9	0.7	0.9	1.1	1.3	1.8
12H					1.2	1.4	1.7	1.9	2.3	1.0	1.3	1.5	1.7	2.2
12H 4H					0.3	0.6	0.7	1.0	1.3	-0.3	-0.0	0.1	0.4	0.7
6H					0.6	0.9	1.0	1.3	1.7	0.3	0.6	0.7	1.0	1.4
8H					0.9	1.1	1.4	1.6	2.0	0.8	1.0	1.2	1.4	1.9
Variations with the observer position at spacings(CIE Pub.117):														
S = 1.0H					+ 2.6 / - 2.1					+ 0.9 / - 1.2				
1.5H					+ 3.7 / - 2.0					+ 1.6 / - 1.0				
2.0H					+ 4.4 / - 2.0					+ 1.8 / - 1.1				

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-C30-3-15-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

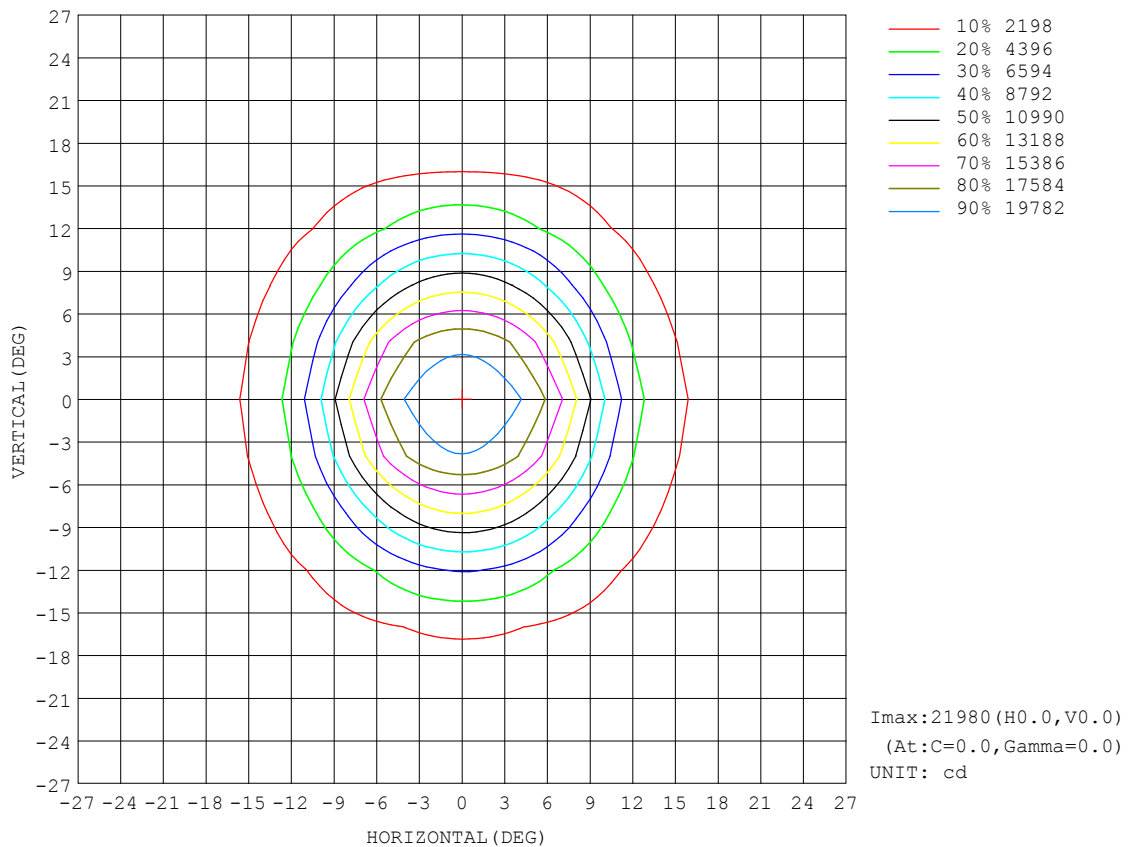
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	62	58	55	62	58	55	61	58	55	53
0.80	67	63	61	67	63	61	66	63	60	58
1.00	70	66	64	69	66	64	68	66	63	61
1.25	73	69	67	72	69	67	70	68	66	63
1.50	74	71	69	73	71	69	72	70	68	65
2.00	76	73	71	75	73	71	73	71	70	66
2.50	77	75	73	76	74	72	74	72	71	67
3.00	78	76	74	77	75	73	75	73	72	67
4.00	79	78	76	78	77	75	76	74	73	68
5.00	80	79	78	79	78	77	76	75	74	69
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended				SHRNOM = 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-C30-3-15-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

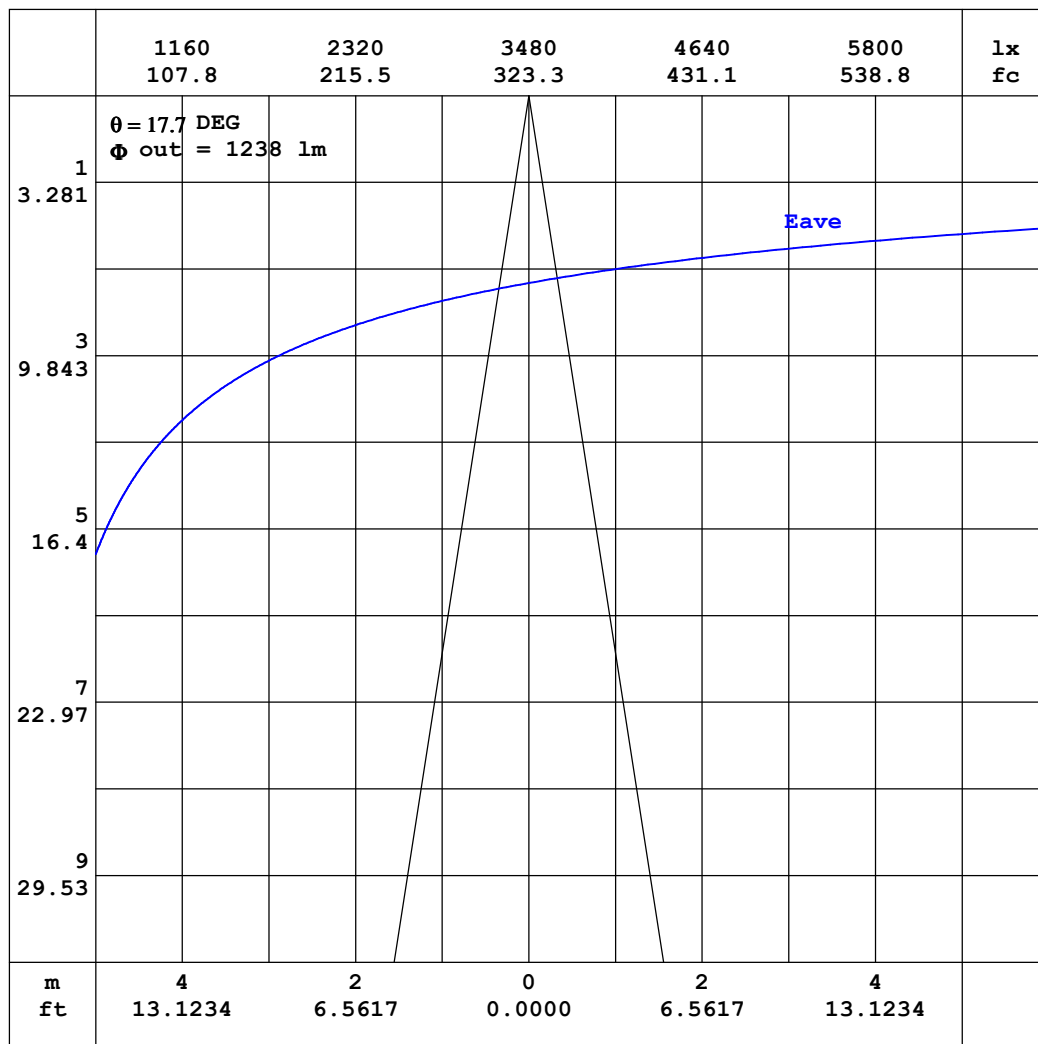


H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:ZT
Test Date:2024-01-22

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:

AAI CURVES

NAME: BL7069-C30-3-15-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



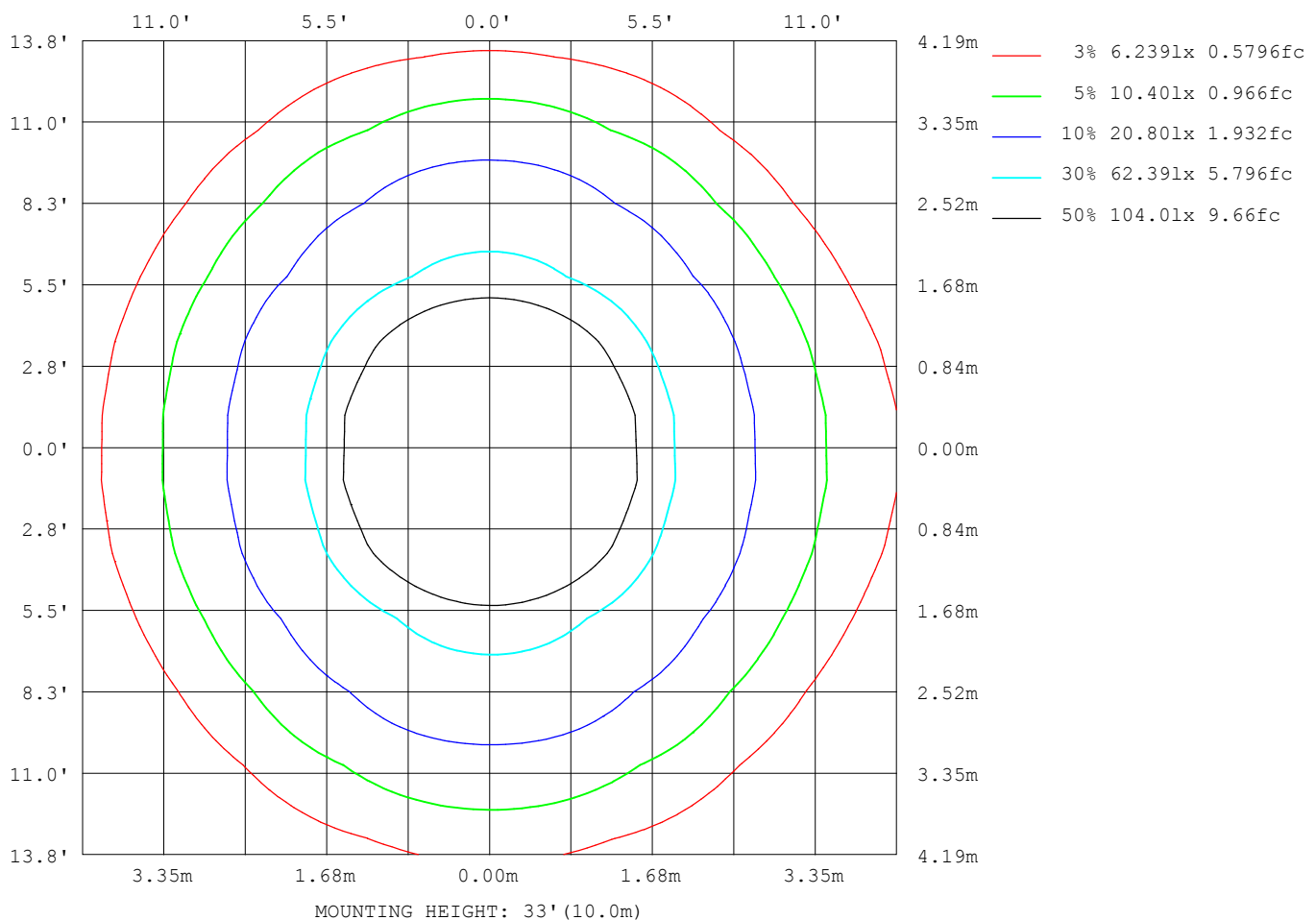
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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-C30-3-15-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-C30-3-15-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

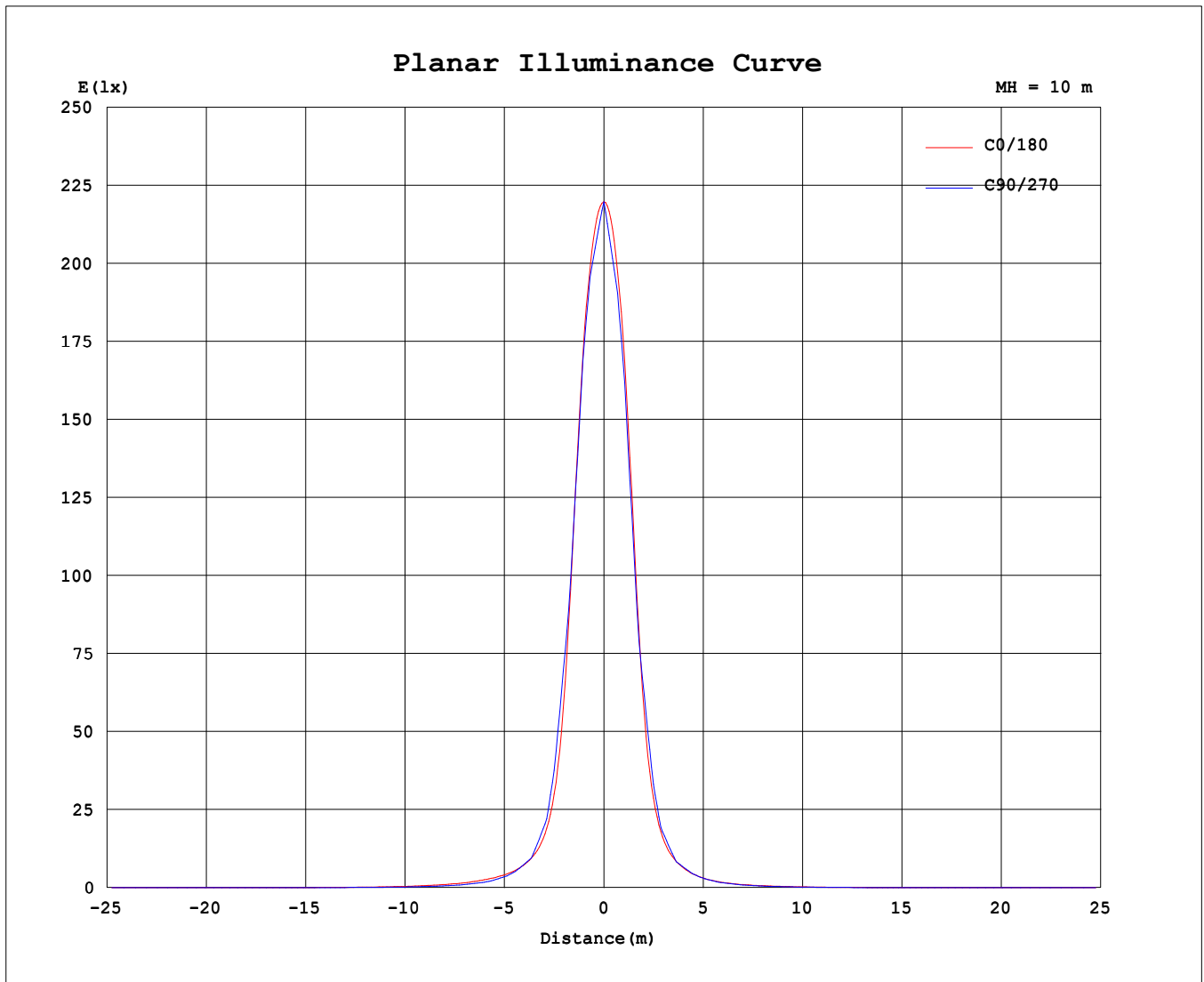
AvgL	cd/m2
L_0~180 (65) av	472
L_0~180 (75) av	457
L_0~180 (85) av	975
L_90~270 (65) av	237
L_90~270 (75) av	213
L_90~270 (85) av	209
L_45 (65) av	224
L_45 (75) av	211
L_45 (85) av	387

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:

```
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:
```