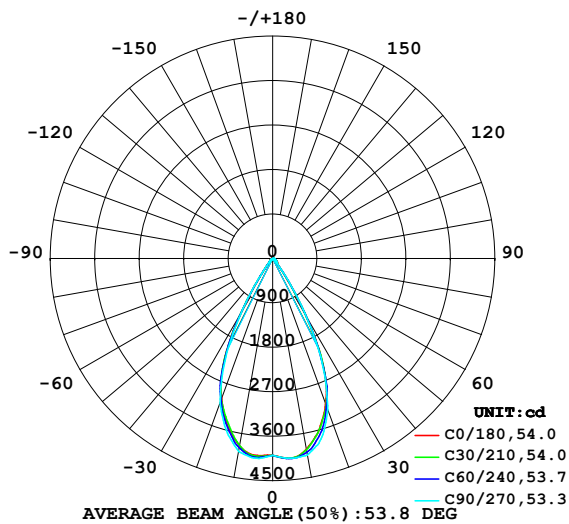


LUMINAIRE PHOTOMETRIC TEST REPORT

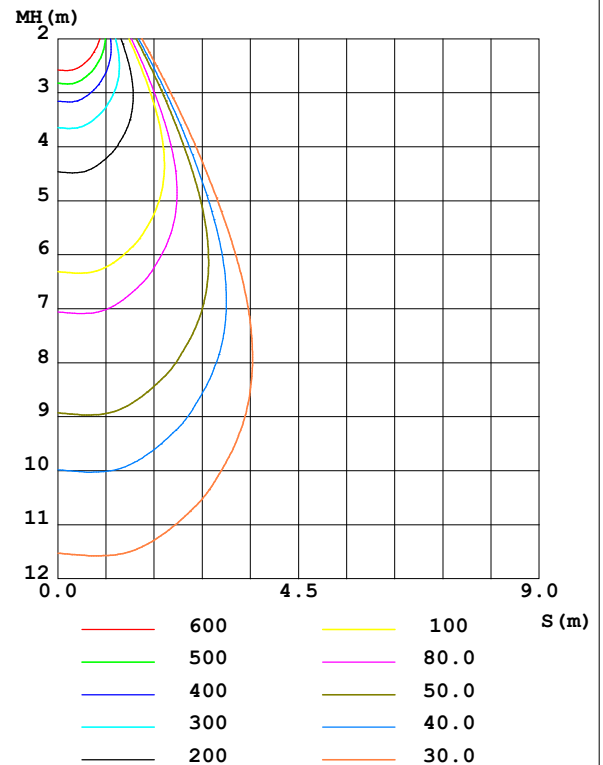
NAME: BL7069-C30-3-50-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 104.50 lm/W
MODEL		Imax (cd)	4069	S/MH (C0/180)		0.79
NOMINAL POWER(W)	28	LOR (%)	97.9	S/MH (C90/270)		0.79
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2936.5	η UP,DN (C0-180)		0.0,49.8
NOMINAL FLUX(lm)	3000	CIE CLASS	DIRECT	η UP,DN (C180-360)		0.0,48.1
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM		0.75
TEST VOLTAGE (V)	220.3	η down (%)	97.9	CIBSE SHR MAX		0.80

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:2024-01-23

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	3923	3951	4043	3896	3856	3861	3968	3890	0- 10	382.1	382.1	13,12.7
20	3138	3165	3265	3060	3026	3056	3120	3089	10- 20	997.2	1379	47,46
30	1382	1399	1379	1344	1331	1327	1286	1349	20- 30	1054	2433	82.9,81.1
40	184.0	174.9	164.1	173.3	160.6	148.7	134.1	150.6	30- 40	357.1	2790	95,93
50	96.35	73.39	74.48	74.24	79.19	65.15	60.99	62.08	40- 50	79.28	2869	97.7,95.6
60	39.08	27.35	26.56	26.54	34.16	19.46	17.91	19.13	50- 60	42.74	2912	99.2,97.1
70	12.78	9.189	9.287	9.564	17.99	4.383	4.283	4.500	60- 70	14.38	2926	99.7,97.5
80	6.113	5.882	6.248	6.136	15.41	2.694	2.862	3.000	70- 80	6.601	2933	99.9,97.8
90	3.229	0	0	0	6.165	0	0	0	80- 90	3.378	2936	100,97.9
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): 2835.8 lm

%lum = 96.6%

%lamp = 94.5%

Conical surface Flux(120deg): 2912.1 lm

%lum = 99.2%

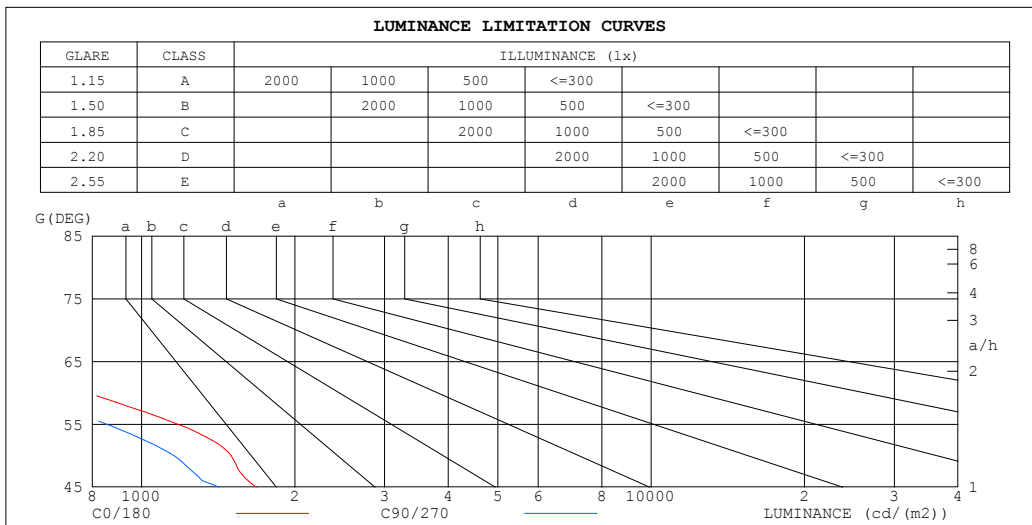
%lamp = 97.1%

H(β) Range:-90 - 90DEG
 H(β) Interval: 0.5DEG
 Test Speed: MEDIUM
 Temperature:25.3°C
 Operators:ZT
 Test Date:2024-01-23

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-C30-3-50-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



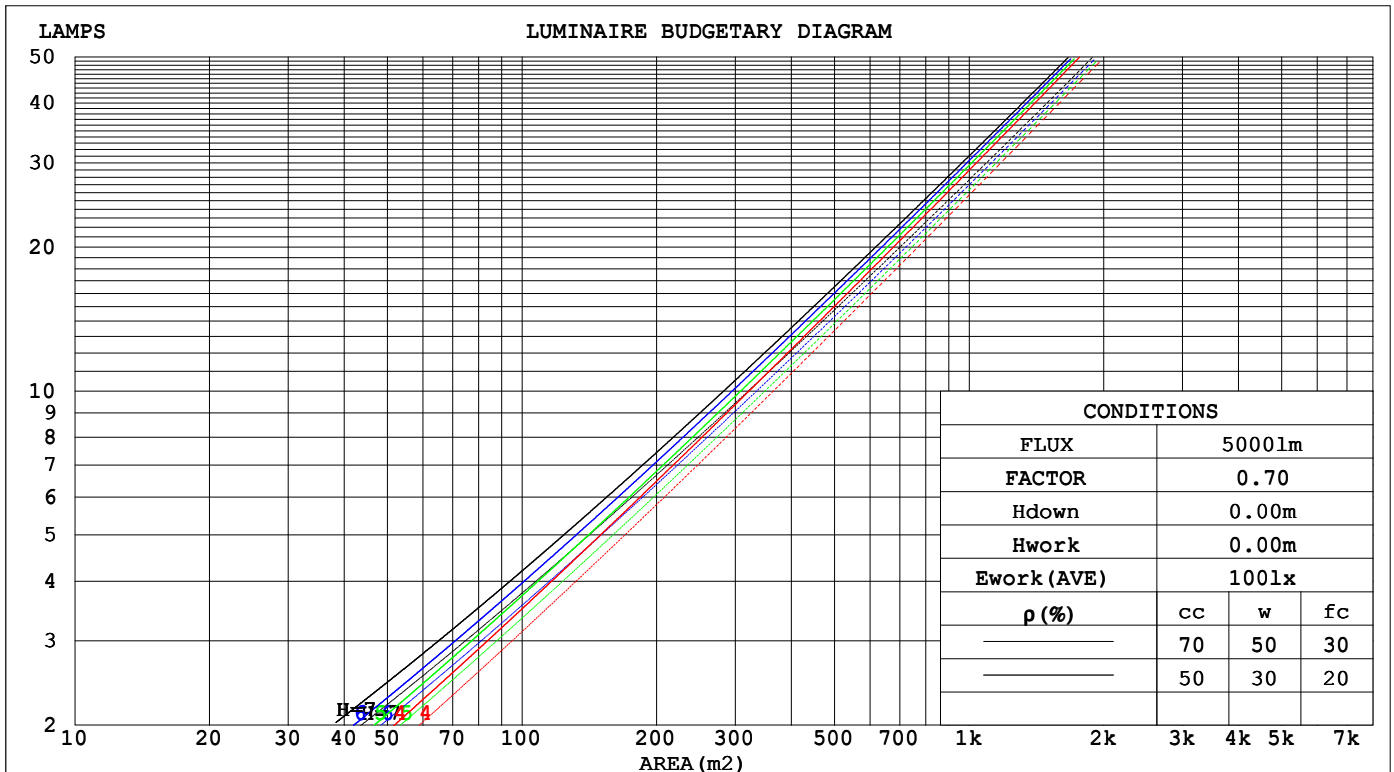
H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:ZT
Test Date:2024-01-23

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-C30-3-50-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	1.17	1.17	1.17	1.14	1.14	1.14	1.09	1.09	1.09	1.04	1.04	1.04	.00	.00	.00	.98														
1.0	1.09	1.07	1.04	1.07	1.05	1.03	1.03	1.01	.00	.99	.98	.97	.96	.95	.94	.92														
2.0	1.02	.98	.95	1.00	.97	.94	.97	.94	.92	.94	.92	.90	.91	.90	.88	.86														
3.0	.96	.91	.87	.94	.90	.87	.92	.88	.85	.89	.86	.84	.87	.85	.83	.81														
4.0	.90	.85	.81	.89	.84	.81	.87	.83	.80	.85	.81	.79	.83	.80	.78	.76														
5.0	.85	.80	.76	.84	.79	.75	.82	.78	.75	.81	.77	.74	.79	.76	.73	.72														
6.0	.80	.75	.71	.79	.74	.71	.78	.74	.70	.77	.73	.70	.75	.72	.69	.68														
7.0	.76	.71	.67	.75	.70	.67	.74	.70	.66	.73	.69	.66	.72	.68	.66	.64														
8.0	.72	.67	.63	.72	.66	.63	.71	.66	.63	.70	.65	.62	.69	.65	.62	.61														
9.0	.69	.63	.60	.68	.63	.60	.67	.63	.59	.66	.62	.59	.66	.62	.59	.58														
10.0	.65	.60	.57	.65	.60	.56	.64	.59	.56	.63	.59	.56	.63	.59	.56	.55														



H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:ZT
Test Date:2024-01-23

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-C30-3-50-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	.166	.095	.030	.160	.091	.029	.148	.085	.027	.136	.079	.025	.126	.073	.024		
2.0	.158	.086	.027	.152	.084	.026	.142	.079	.025	.133	.074	.023	.124	.070	.022		
3.0	.150	.080	.024	.145	.078	.023	.136	.074	.022	.128	.070	.022	.121	.067	.021		
4.0	.142	.074	.022	.138	.072	.021	.130	.069	.021	.123	.066	.020	.117	.064	.019		
5.0	.135	.069	.020	.132	.068	.020	.125	.065	.019	.119	.063	.019	.113	.061	.018		
6.0	.129	.065	.018	.126	.064	.018	.120	.062	.018	.115	.060	.018	.110	.058	.017		
7.0	.123	.061	.017	.120	.060	.017	.115	.058	.017	.111	.057	.016	.106	.055	.016		
8.0	.118	.058	.016	.115	.057	.016	.111	.055	.016	.107	.054	.016	.103	.053	.015		
9.0	.113	.055	.015	.111	.054	.015	.107	.053	.015	.103	.052	.015	.099	.051	.015		
10.0	.108	.052	.014	.107	.051	.014	.103	.050	.014	.100	.049	.014	.096	.048	.014		

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	.186	.186	.186	.159	.159	.159	.109	.109	.109	.062	.062	.062	.020	.020	.020	
1.0	.167	.154	.142	.143	.132	.123	.098	.091	.085	.056	.053	.049	.018	.017	.016	
2.0	.152	.130	.111	.130	.112	.096	.089	.077	.067	.051	.045	.039	.016	.015	.013	
3.0	.139	.111	.089	.119	.096	.077	.082	.067	.054	.047	.039	.032	.015	.013	.010	
4.0	.128	.097	.072	.110	.083	.063	.076	.058	.044	.044	.034	.026	.014	.011	.009	
5.0	.120	.085	.060	.103	.074	.052	.071	.051	.037	.041	.030	.022	.013	.010	.007	
6.0	.112	.076	.050	.096	.066	.043	.066	.046	.031	.039	.027	.018	.012	.009	.006	
7.0	.106	.068	.042	.091	.059	.037	.063	.042	.026	.036	.024	.016	.012	.008	.005	
8.0	.100	.062	.036	.086	.054	.032	.059	.038	.022	.035	.022	.013	.011	.007	.004	
9.0	.095	.057	.031	.082	.049	.027	.057	.035	.019	.033	.021	.012	.011	.007	.004	
10.0	.090	.053	.028	.078	.046	.024	.054	.032	.017	.032	.019	.010	.010	.006	.003	

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3℃
Operators:ZT
Test Date:2024-01-23

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-C30-3-50-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					5.4	6.3	5.6	6.4	6.6	5.6	6.4	5.8	6.6	6.8
3H					5.3	6.1	5.6	6.3	6.5	5.5	6.3	5.7	6.5	6.7
4H					5.3	6.1	5.6	6.3	6.5	5.4	6.2	5.7	6.4	6.6
6H					5.3	6.0	5.6	6.2	6.5	5.4	6.1	5.7	6.4	6.6
8H					5.3	6.0	5.6	6.2	6.5	5.4	6.1	5.7	6.3	6.6
12H					5.3	5.9	5.6	6.2	6.5	5.4	6.1	5.7	6.3	6.6
4H 2H					5.2	6.0	5.5	6.2	6.4	5.4	6.1	5.7	6.4	6.6
3H					5.2	5.8	5.5	6.1	6.4	5.3	6.0	5.6	6.2	6.5
4H					5.2	5.8	5.5	6.1	6.4	5.3	5.9	5.6	6.2	6.5
6H					5.2	5.7	5.5	6.0	6.4	5.3	5.8	5.7	6.2	6.5
8H					5.2	5.7	5.6	6.0	6.4	5.3	5.8	5.7	6.2	6.5
12H					5.3	5.7	5.7	6.1	6.5	5.4	5.8	5.8	6.2	6.6
8H 4H					5.1	5.5	5.4	5.9	6.3	5.2	5.7	5.6	6.0	6.4
6H					5.1	5.5	5.5	5.9	6.3	5.2	5.6	5.7	6.0	6.4
8H					5.2	5.5	5.6	6.0	6.4	5.3	5.7	5.7	6.1	6.5
12H					5.3	5.6	5.8	6.1	6.5	5.4	5.7	5.9	6.1	6.6
12H 4H					5.0	5.5	5.4	5.8	6.2	5.1	5.6	5.5	6.0	6.3
6H					5.1	5.4	5.5	5.9	6.3	5.2	5.6	5.6	6.0	6.4
8H					5.2	5.5	5.6	5.9	6.4	5.3	5.6	5.8	6.0	6.5
Variations with the observer position at spacings(CIE Pub.117):														
S = 1.0H					+ 2.2 / - 2.2					+ 2.9 / - 2.9				
1.5H					+ 3.3 / - 2.1					+ 4.5 / - 2.0				
2.0H					+ 2.2 / - 3.1					+ 1.9 / - 2.2				

CIE Pub.117, 3000 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.8)
Area: 0.1 m2

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3℃
Operators:ZT
Test Date:2024-01-23

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-C30-3-50-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

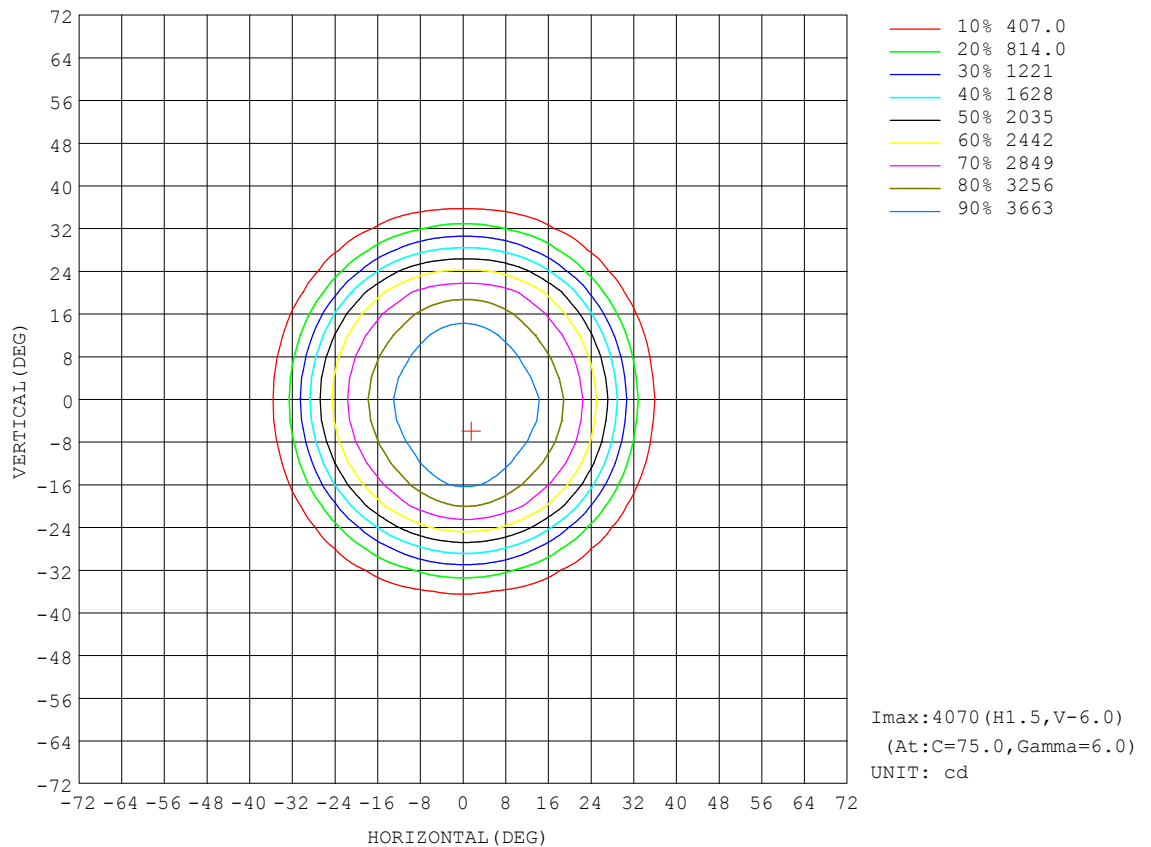
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	87	80	77	86	80	77	85	80	77	73
0.80	94	88	85	93	88	84	92	87	84	81
1.00	98	93	89	97	92	89	95	92	88	85
1.25	102	97	93	101	96	93	99	95	92	88
1.50	104	100	97	103	99	96	101	97	95	91
2.00	107	103	100	105	102	99	103	100	97	92
2.50	108	105	102	107	103	101	104	101	99	93
3.00	110	106	104	108	105	103	105	102	101	94
4.00	112	109	107	110	107	105	106	104	103	96
5.00	113	111	109	111	109	107	107	106	104	97
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: 2024-01-23

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-C30-3-50-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

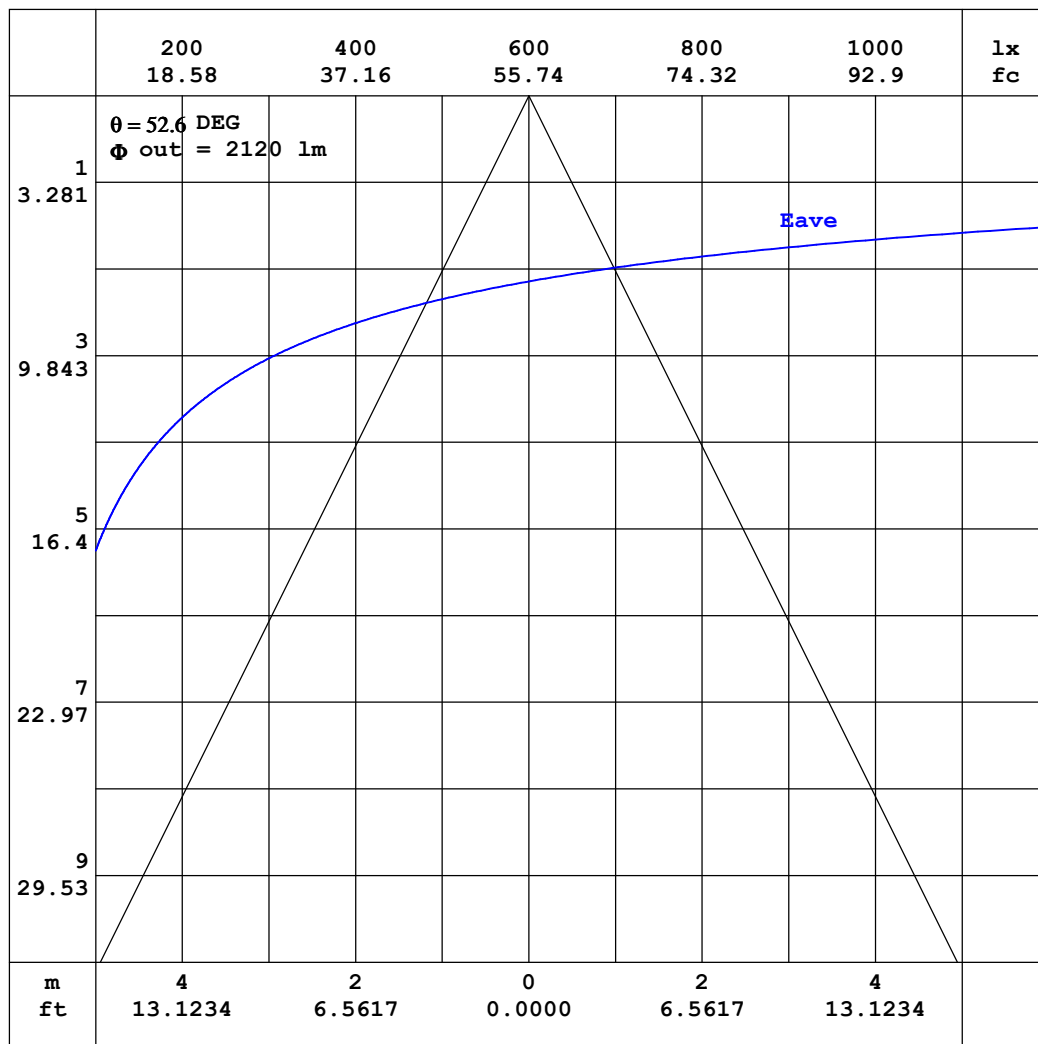


H(β) Range: -90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators: ZT
Test Date: 2024-01-23

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-C30-3-50-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



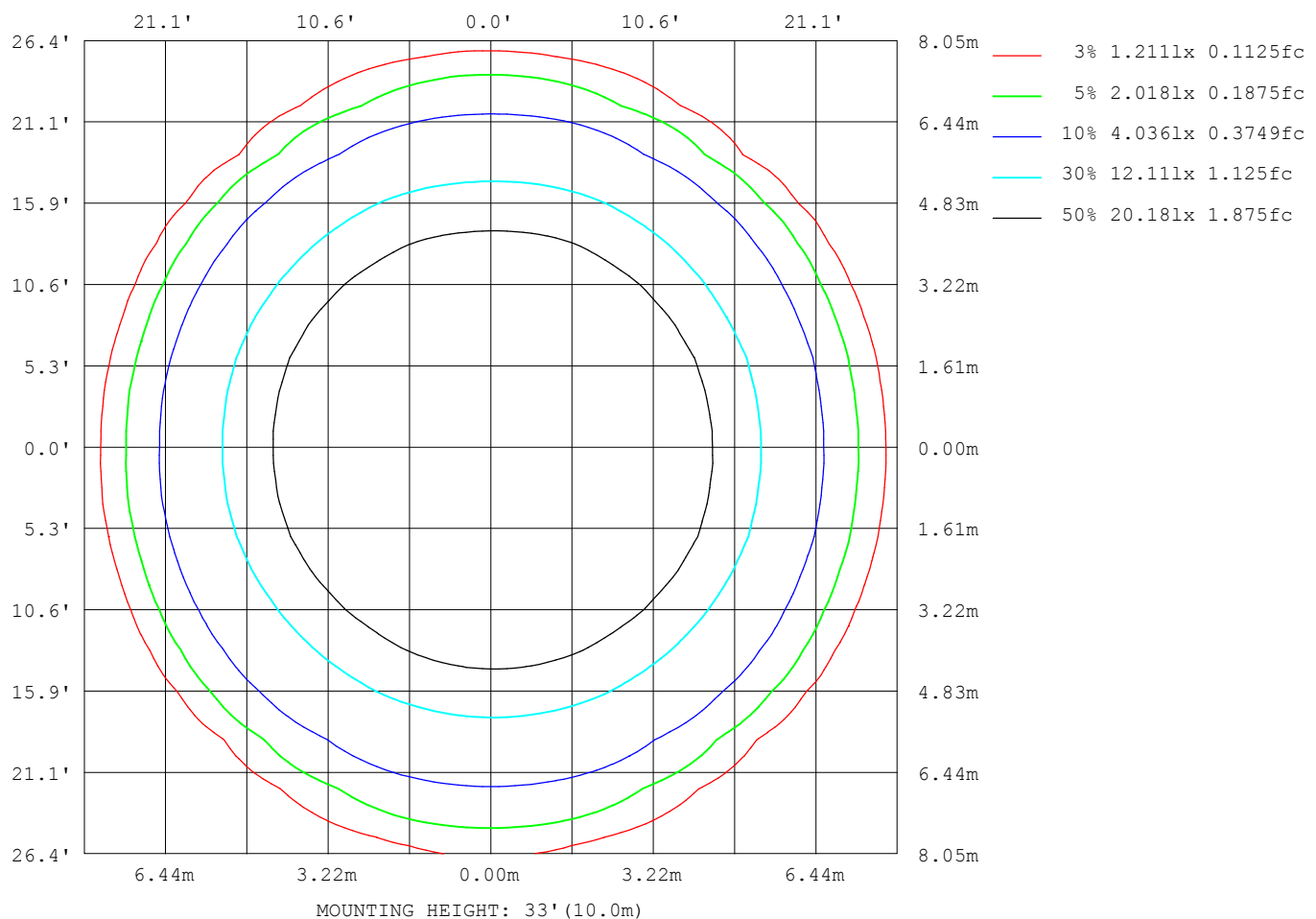
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range: -90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators: ZT
Test Date: 2024-01-23

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-C30-3-50-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:2024-01-23

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-C30-3-50-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

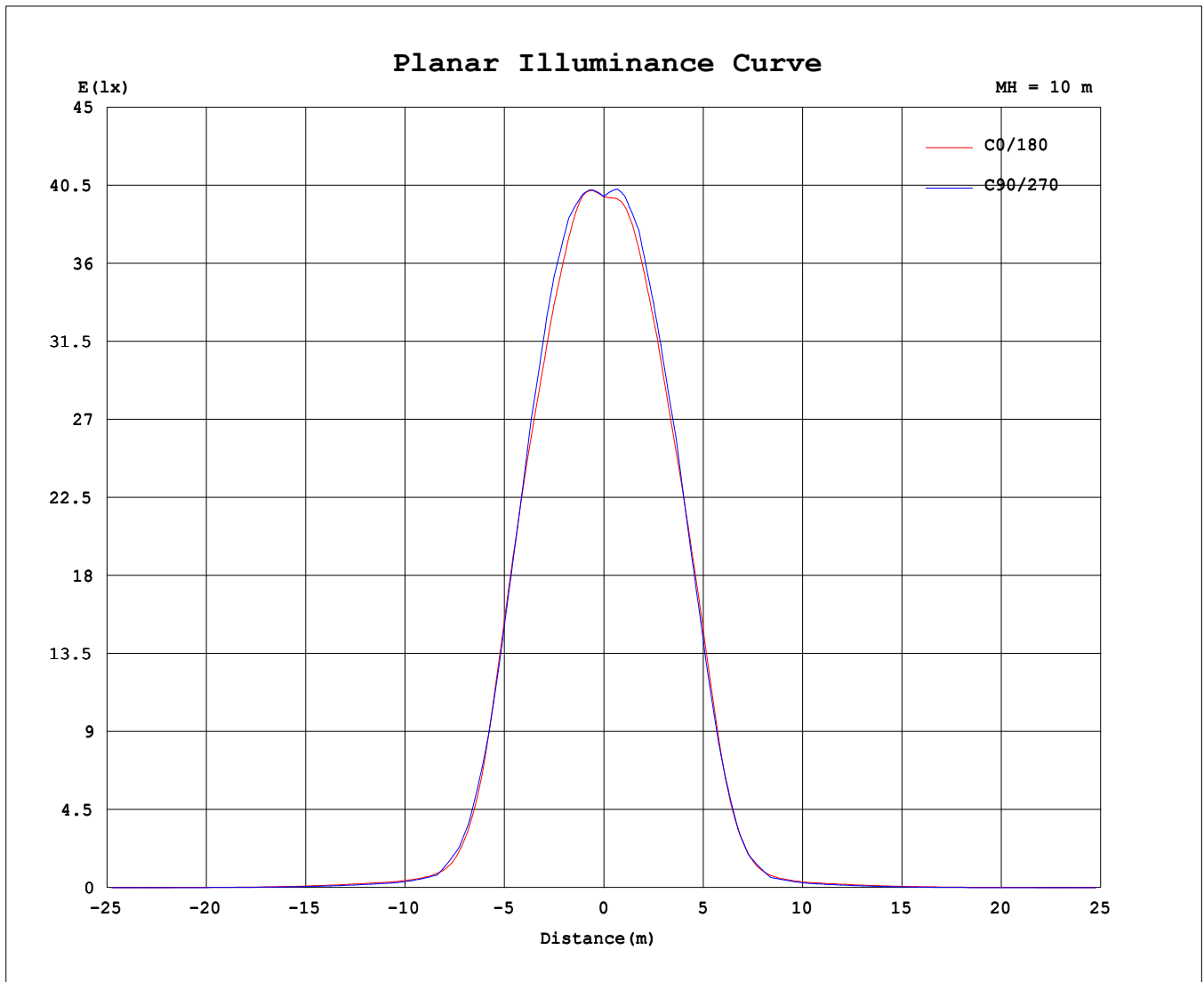
AvgL	cd/m2
L_0~180 (65) av	530
L_0~180 (75) av	482
L_0~180 (85) av	1095
L_90~270 (65) av	284
L_90~270 (75) av	209
L_90~270 (85) av	243
L_45 (65) av	281
L_45 (75) av	203
L_45 (85) av	451

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:2024-01-23

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:2024-01-23

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:
```