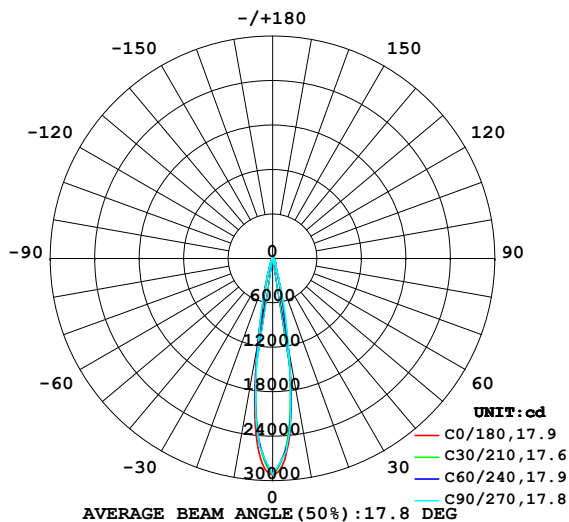


LUMINAIRE PHOTOMETRIC TEST REPORT

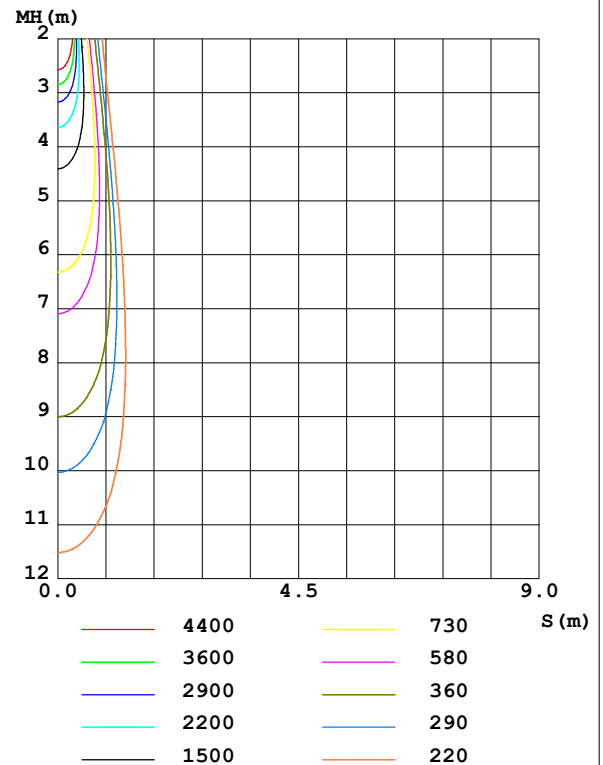
NAME: BL7069-C40-3-15-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 90.66 lm/W
MODEL		Imax (cd)	29178	S/MH (C0/180)		0.29
NOMINAL POWER(W)	40	LOR (%)	122.4	S/MH (C90/270)		0.30
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	3671.7	η UP,DN (C0-180)		0.0,63.2
NOMINAL FLUX(lm)	3000	CIE CLASS	DIRECT	η UP,DN (C180-360)		0.0,59.2
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM		0.00
TEST VOLTAGE (V)	220.0	η down (%)	122.4	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:2024-01-20

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	1170	1230	1232	1213	1139	1141	1093	1128	0- 10	1872	1872	51,62.4
20	149.8	148.5	150.7	144.2	133.9	135.4	131.9	135.0	10- 20	1156	3027	82.4,101
30	57.91	40.96	41.51	39.62	38.88	36.70	35.37	36.68	20- 30	349.0	3376	92,113
40	25.87	15.40	15.29	15.10	16.63	13.09	13.11	13.27	30- 40	156.2	3532	96.2,118
50	10.79	6.304	6.267	6.222	6.928	4.952	5.169	5.133	40- 50	77.52	3610	98.3,120
60	3.763	2.421	2.557	2.435	3.553	1.539	1.480	1.662	50- 60	34.96	3645	99.3,121
70	1.348	1.204	1.349	1.215	2.569	0.4353	0.4094	0.6556	60- 70	14.67	3660	99.7,122
80	0.5478	0.8243	0.9353	0.9191	1.982	0.1838	0.1945	0.3264	70- 80	8.177	3668	99.9,122
90	0.3327	0	0	0	0.6224	0	0	0	80- 90	3.971	3672	100,122
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): 3578.2 lm

%lum = 97.5%

%lamp = 119.3%

Conical surface Flux(120deg): 3644.9 lm

%lum = 99.3%

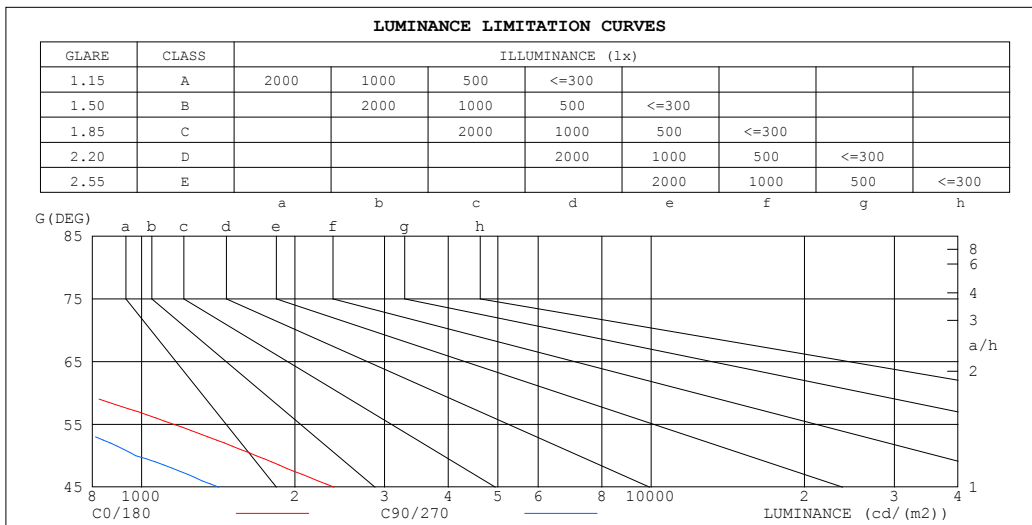
%lamp = 121.5%

H(β) Range:-90 - 90DEG
 H(β) Interval: 0.5DEG
 Test Speed: MEDIUM
 Temperature:25.3°C
 Operators:ZT
 Test Date:2024-01-20

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-C40-3-15-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	481	441
80	315	539
75	325	447
70	394	394
65	517	421
60	753	511
55	1157	707
50	1678	975
45	2385	1417

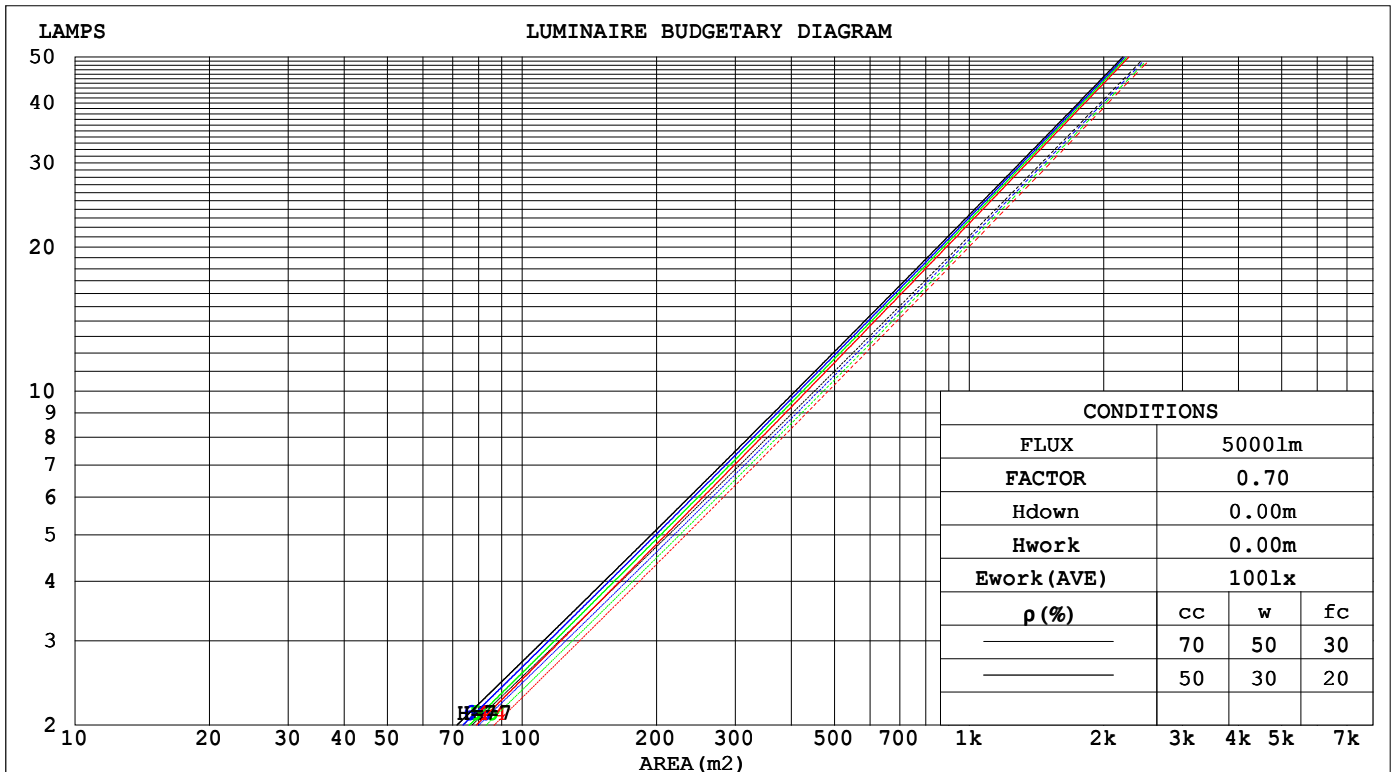
H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:ZT
Test Date:2024-01-20

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-C40-3-15-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	1.46	1.46	1.46	1.42	1.42	1.42	1.36	1.36	1.36	1.30	1.30	1.30	1.25	1.25	1.25	1.22														
1.0	1.38	1.36	1.34	1.36	1.34	1.32	1.31	1.29	1.28	1.27	1.25	1.24	1.22	1.22	1.21	1.19														
2.0	1.32	1.29	1.26	1.30	1.27	1.25	1.27	1.24	1.22	1.23	1.21	1.19	1.20	1.18	1.17	1.15														
3.0	1.27	1.23	1.20	1.26	1.22	1.19	1.23	1.19	1.17	1.20	1.17	1.15	1.17	1.15	1.13	1.12														
4.0	1.23	1.18	1.15	1.21	1.17	1.14	1.19	1.16	1.13	1.17	1.14	1.12	1.15	1.12	1.10	1.09														
5.0	1.19	1.14	1.11	1.18	1.13	1.10	1.16	1.12	1.09	1.14	1.11	1.08	1.12	1.10	1.07	1.06														
6.0	1.15	1.11	1.07	1.15	1.10	1.07	1.13	1.09	1.06	1.11	1.08	1.06	1.10	1.07	1.05	1.04														
7.0	1.12	1.08	1.04	1.12	1.07	1.04	1.10	1.06	1.04	1.09	1.06	1.03	1.08	1.05	1.03	1.01														
8.0	1.09	1.05	1.02	1.09	1.05	1.01	1.08	1.04	1.01	1.07	1.03	1.01	1.06	1.03	1.00	.99														
9.0	1.07	1.02	.99	1.06	1.02	.99	1.06	1.02	.99	1.05	1.01	.99	1.04	1.01	.98	.97														
10.0	1.05	1.00	.97	1.04	1.00	.97	1.03	.99	.97	1.03	.99	.97	1.02	.99	.97	.96														



H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:ZT
Test Date:2024-01-20

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-C40-3-15-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	.162	.092	.029	.154	.088	.028	.139	.080	.025	.125	.072	.023	.112	.065	.021	
2.0	.149	.082	.025	.142	.078	.024	.130	.072	.022	.119	.067	.021	.108	.061	.019	
3.0	.138	.073	.022	.132	.071	.021	.122	.066	.020	.113	.062	.019	.104	.057	.018	
4.0	.128	.067	.020	.124	.065	.019	.115	.061	.018	.107	.057	.017	.099	.054	.016	
5.0	.120	.061	.018	.116	.060	.017	.109	.057	.017	.102	.054	.016	.095	.051	.015	
6.0	.113	.056	.016	.109	.055	.016	.103	.053	.015	.097	.050	.015	.092	.048	.014	
7.0	.106	.053	.015	.103	.051	.015	.098	.049	.014	.093	.048	.014	.088	.046	.013	
8.0	.101	.049	.014	.098	.048	.014	.093	.047	.013	.089	.045	.013	.085	.043	.013	
9.0	.095	.046	.013	.093	.045	.013	.089	.044	.012	.085	.043	.012	.082	.041	.012	
10.0	.091	.044	.012	.089	.043	.012	.085	.042	.012	.082	.041	.012	.079	.040	.011	

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	.233	.233	.233	.199	.199	.199	.136	.136	.136	.078	.078	.078	.025	.025	.025	
1.0	.206	.193	.182	.176	.166	.156	.120	.114	.108	.069	.066	.063	.022	.021	.020	
2.0	.183	.162	.145	.157	.140	.125	.107	.097	.088	.062	.056	.051	.020	.018	.017	
3.0	.164	.139	.118	.141	.120	.102	.097	.083	.072	.056	.049	.042	.018	.016	.014	
4.0	.148	.120	.098	.127	.103	.085	.088	.072	.060	.051	.042	.035	.016	.014	.012	
5.0	.135	.104	.082	.116	.090	.071	.080	.063	.050	.046	.037	.030	.015	.012	.010	
6.0	.124	.092	.069	.106	.080	.060	.073	.056	.043	.043	.033	.025	.014	.011	.008	
7.0	.114	.082	.059	.098	.071	.052	.068	.050	.037	.039	.029	.022	.013	.010	.007	
8.0	.106	.073	.051	.091	.064	.045	.063	.045	.032	.037	.026	.019	.012	.009	.006	
9.0	.098	.066	.045	.085	.058	.039	.059	.040	.028	.034	.024	.017	.011	.008	.005	
10.0	.092	.060	.039	.079	.052	.034	.055	.037	.024	.032	.022	.015	.010	.007	.005	

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3℃
Operators:ZT
Test Date:2024-01-20

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-C40-3-15-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	2.0	2.6	2.2	2.7	2.9	0.8	1.4	1.0	1.6	1.7
3H	2.1	2.6	2.3	2.8	3.0	1.1	1.7	1.3	1.8	2.0
4H	2.1	2.7	2.4	2.9	3.1	1.3	1.8	1.6	2.0	2.3
6H	2.1	2.7	2.4	2.9	3.1	1.6	2.1	1.9	2.3	2.6
8H	2.2	2.7	2.5	2.9	3.2	1.8	2.3	2.1	2.5	2.8
12H	2.3	2.8	2.6	3.0	3.3	1.9	2.4	2.3	2.7	3.0
4H 2H	1.9	2.5	2.2	2.7	2.9	0.8	1.3	1.1	1.6	1.8
3H	2.1	2.5	2.4	2.8	3.1	1.2	1.7	1.5	1.9	2.2
4H	2.1	2.6	2.5	2.9	3.2	1.5	2.0	1.8	2.2	2.5
6H	2.3	2.7	2.6	3.0	3.3	2.0	2.4	2.3	2.7	3.0
8H	2.4	2.8	2.8	3.1	3.5	2.3	2.6	2.6	3.0	3.3
12H	2.6	2.9	3.0	3.3	3.7	2.5	2.9	2.9	3.2	3.6
8H 4H	2.2	2.5	2.5	2.9	3.2	1.6	1.9	1.9	2.3	2.6
6H	2.4	2.7	2.8	3.1	3.5	2.2	2.5	2.6	2.9	3.3
8H	2.7	2.9	3.1	3.4	3.8	2.6	2.8	3.0	3.3	3.7
12H	3.1	3.3	3.5	3.7	4.2	3.0	3.2	3.4	3.6	4.1
12H 4H	2.1	2.5	2.5	2.8	3.2	1.5	1.9	1.9	2.2	2.6
6H	2.5	2.7	2.9	3.2	3.6	2.2	2.5	2.6	2.9	3.3
8H	2.8	3.0	3.2	3.4	3.9	2.7	2.9	3.1	3.3	3.8
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 / - 2.1					+ 1.6 / - 1.0				
2.0H	+ 4.4 / - 2.1					+ 1.8 / - 1.1				

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:2024-01-20

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-C40-3-15-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

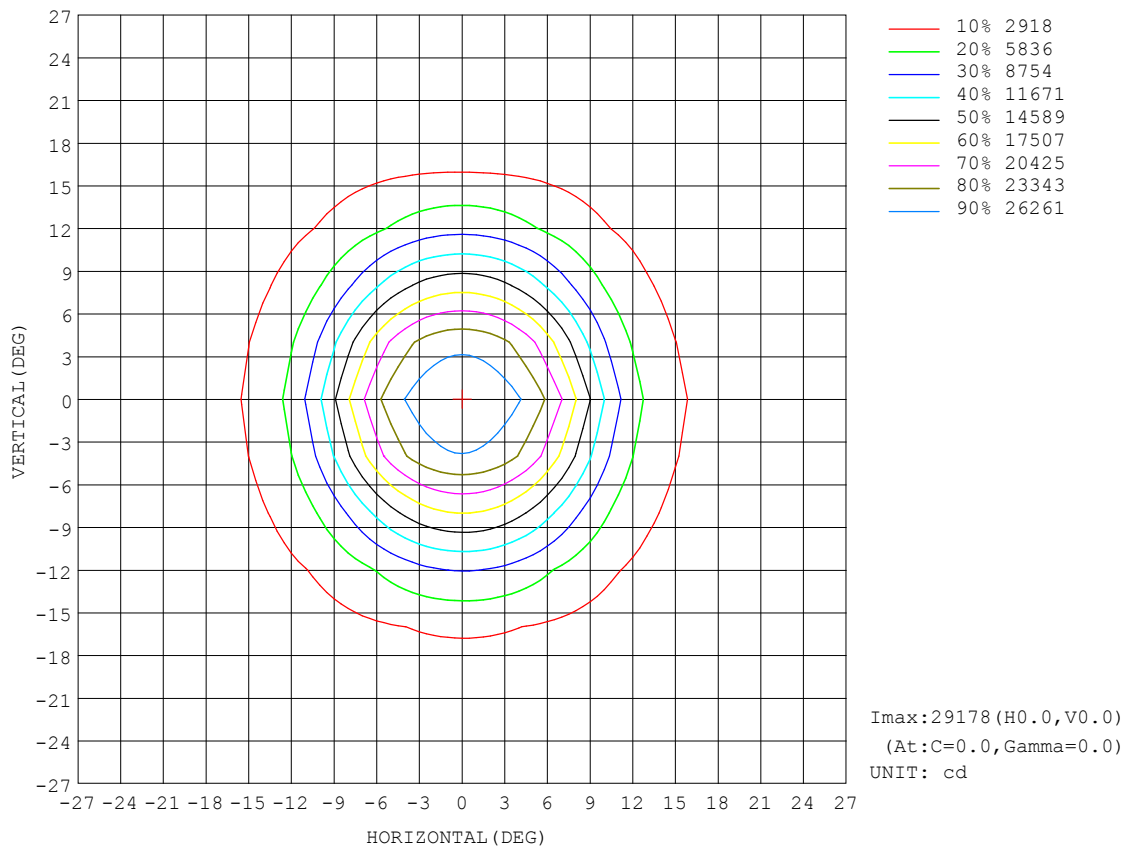
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	109	102	97	109	102	97	108	101	97	93
0.80	118	111	107	117	111	107	116	110	106	102
1.00	123	116	112	122	116	112	120	116	111	107
1.25	128	121	117	126	121	117	124	119	116	111
1.50	131	125	121	129	124	121	126	122	119	114
2.00	134	129	125	132	127	124	129	125	122	116
2.50	136	131	128	134	130	126	130	127	124	117
3.00	137	133	130	135	132	129	131	128	126	118
4.00	140	136	134	137	134	132	133	131	129	120
5.00	141	139	136	139	136	134	134	132	131	122
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:ZT
 Test Date:2024-01-20

$V(B)$ 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-C40-3-15-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

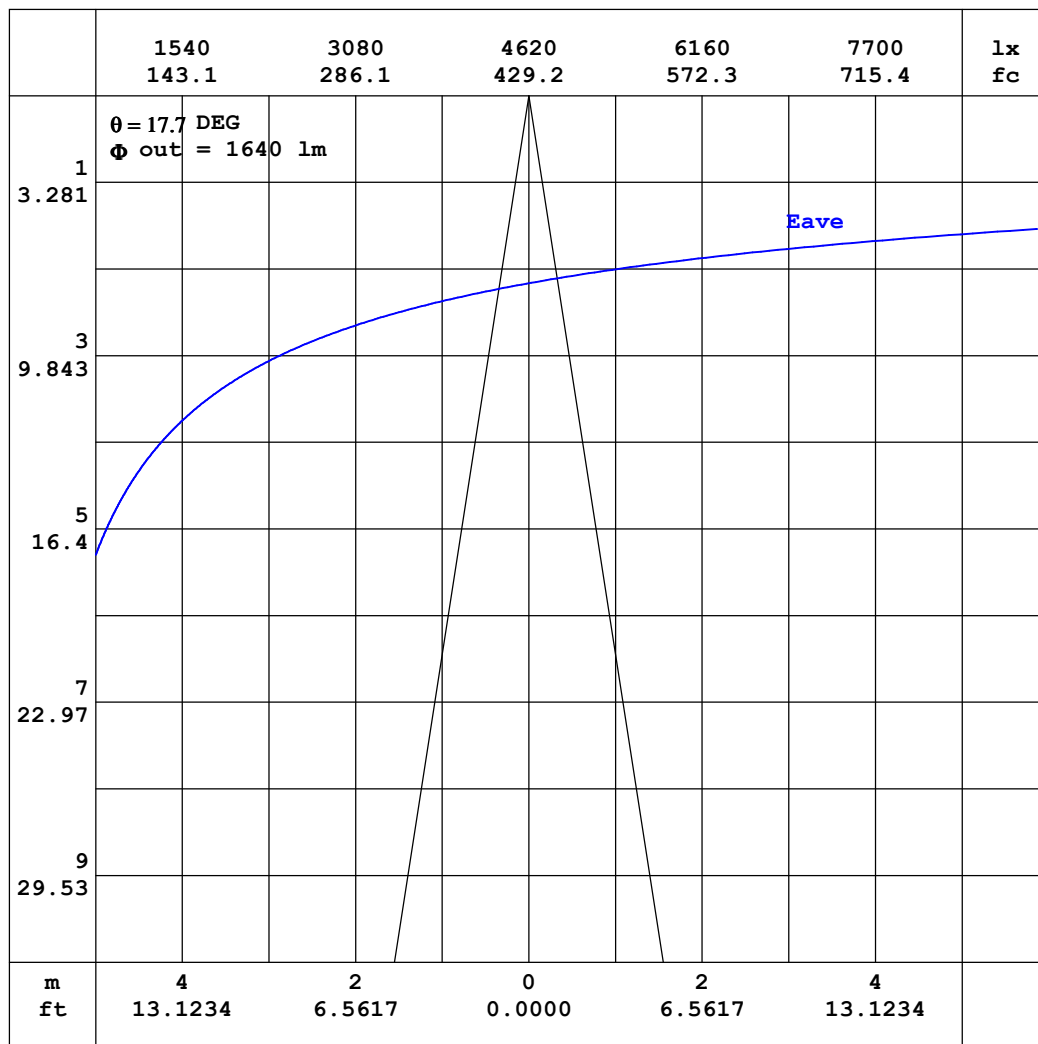


H(β) Range: -90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators: ZT
Test Date: 2024-01-20

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-C40-3-15-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



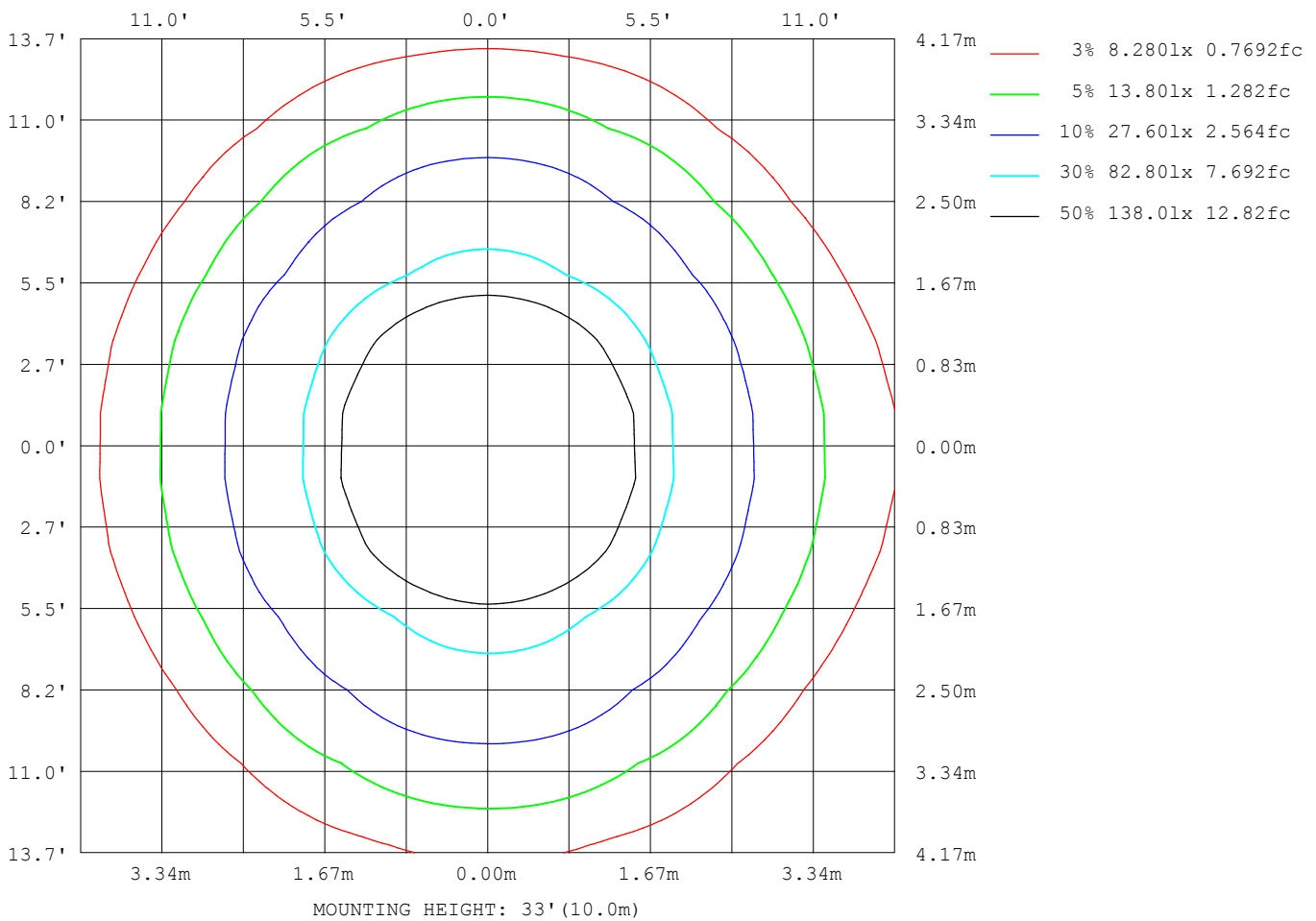
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range: -90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators: ZT
Test Date: 2024-01-20

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-C40-3-15-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:2024-01-20

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-C40-3-15-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

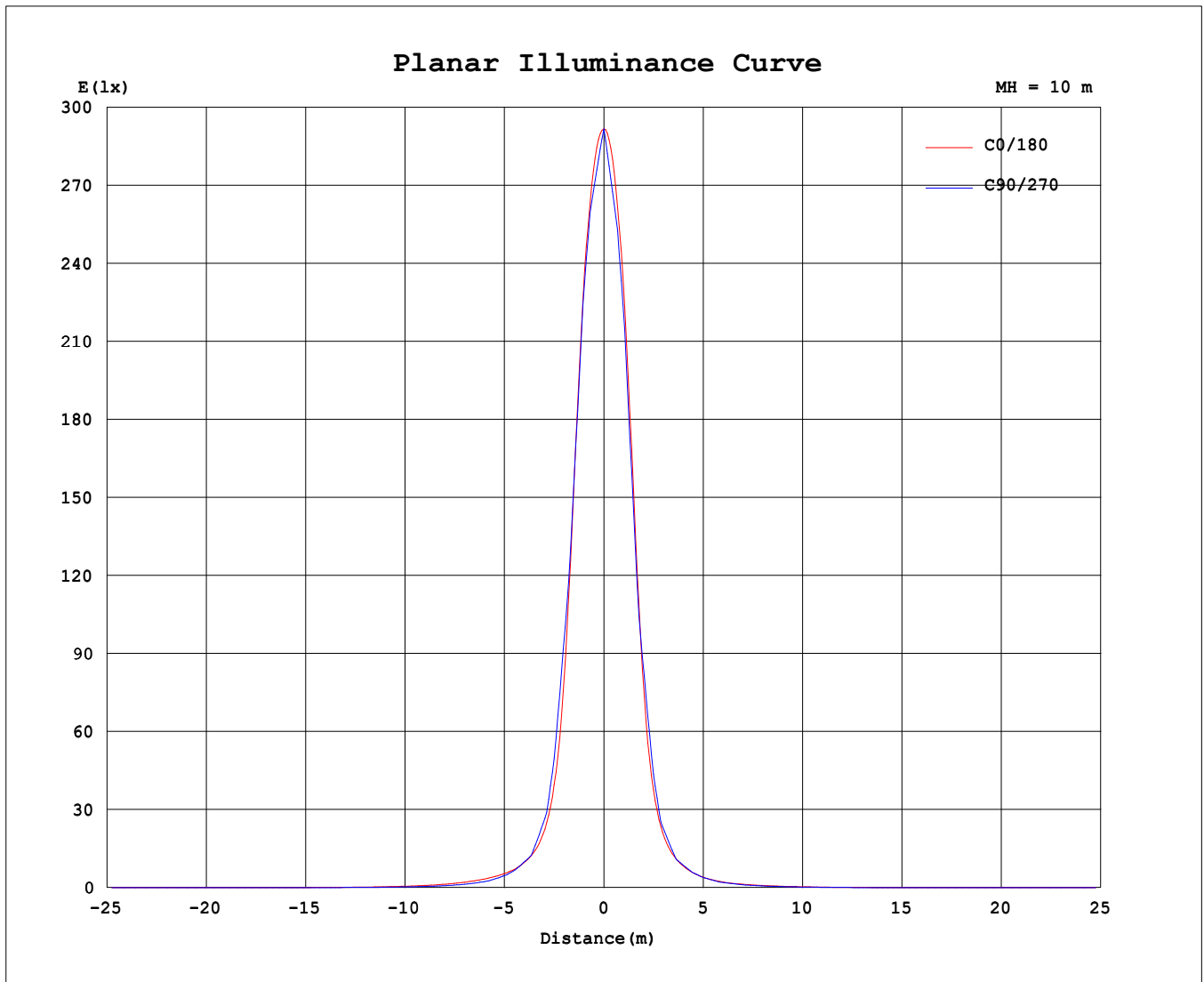
AvgL	cd/m2
L_0~180 (65) av	615
L_0~180 (75) av	595
L_0~180 (85) av	1272
L_90~270 (65) av	305
L_90~270 (75) av	275
L_90~270 (85) av	277
L_45 (65) av	288
L_45 (75) av	271
L_45 (85) av	506

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:2024-01-20

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:2024-01-20

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:

NAME: BL7069-C40-3-15-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

UNIT: X10cd

[illegible]

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: