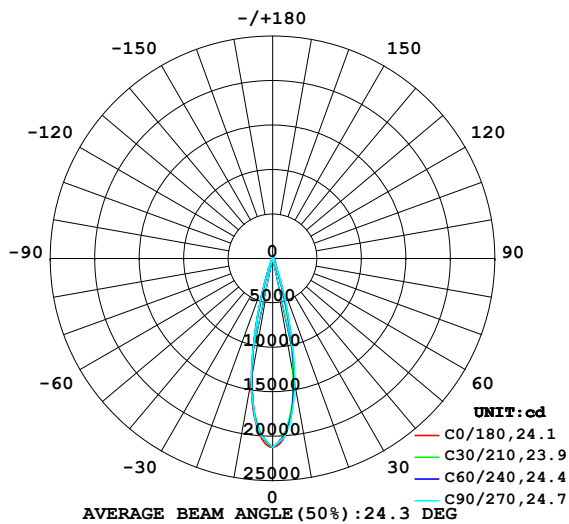


LUMINAIRE PHOTOMETRIC TEST REPORT

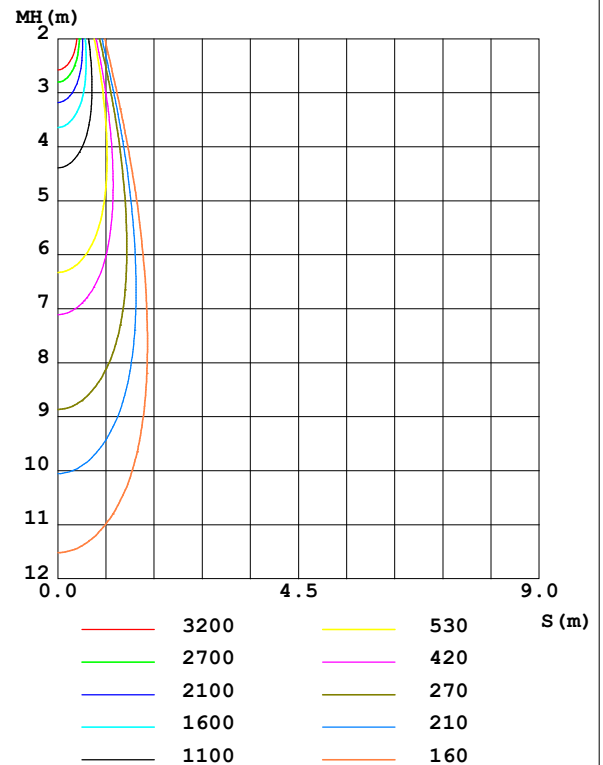
NAME: BL7069-C40-3-24-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 97.50 lm/W
MODEL		Imax (cd)	21230	S/MH (C0/180)		0.39
NOMINAL POWER(W)	40	LOR (%)	131.9	S/MH (C90/270)		0.39
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	3958.4	η UP,DN (C0-180)		0.0,67.6
NOMINAL FLUX(lm)	3000	CIE CLASS	DIRECT	η UP,DN (C180-360)		0.0,64.3
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM		0.00
TEST VOLTAGE (V)	220.0	η down (%)	131.9	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	1368	1358	1453	1375	1380	1346	1400	1322	0- 10	1650	1650	41.7,55
20	183.9	195.1	201.1	196.8	177.9	181.5	165.8	172.3	10- 20	1766	3416	86.3,114
30	39.86	27.93	29.15	26.33	24.99	23.22	21.83	22.18	20- 30	326.8	3742	94.5,125
40	20.04	9.416	9.439	9.218	10.59	7.475	7.465	7.283	30- 40	98.87	3841	97,128
50	10.17	5.563	5.510	5.474	6.718	4.391	4.581	4.395	40- 50	56.66	3898	98.5,130
60	3.965	2.547	2.524	2.458	3.603	1.531	1.590	1.686	50- 60	34.18	3932	99.3,131
70	1.286	1.194	1.294	1.214	2.675	0.3616	0.3714	0.5606	60- 70	13.88	3946	99.7,132
80	0.5923	0.8753	0.9497	0.9599	2.179	0.1865	0.2148	0.3675	70- 80	8.253	3954	99.9,132
90	0.3537	0	0	0	0.6567	0	0	0	80- 90	4.246	3958	100,132
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): 3872.2 lm

%lum = 97.8%

%lamp = 129.1%

Conical surface Flux(120deg): 3932.1 lm

%lum = 99.3%

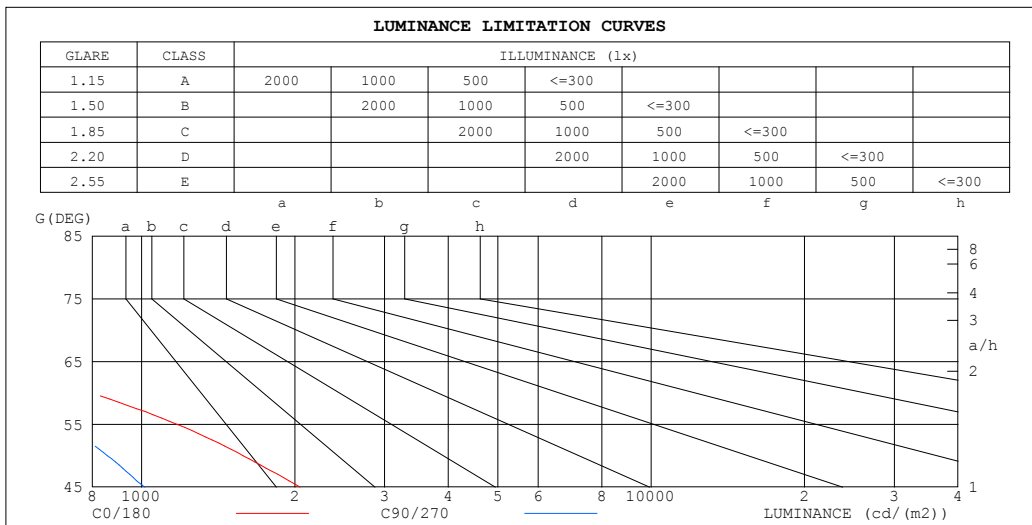
%lamp = 131.1%

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-C40-3-24-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	521	458
80	341	547
75	327	436
70	376	378
65	480	370
60	793	505
55	1174	694
50	1583	857
45	2046	1015

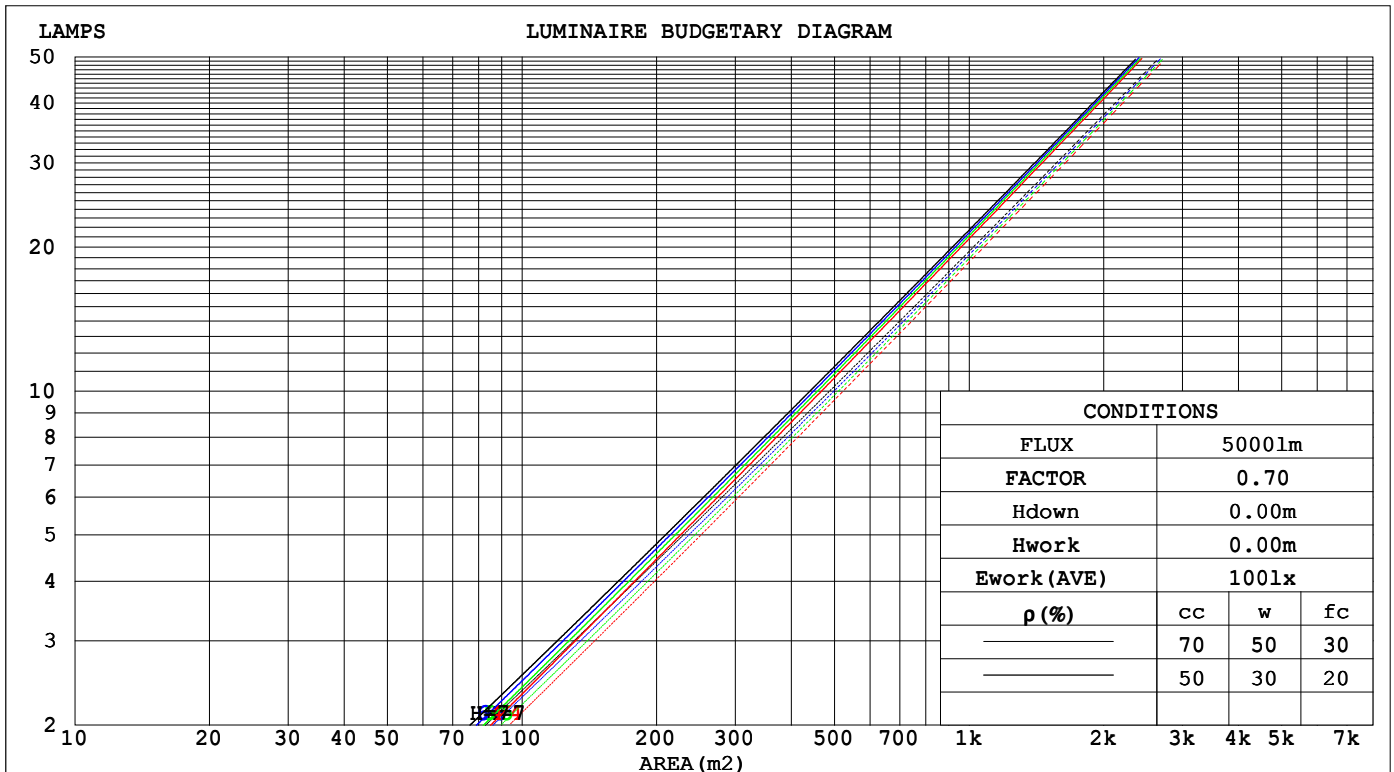
H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:ZT
Test Date:2024-01-22

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-C40-3-24-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	1.57	1.57	1.57	1.53	1.53	1.53	1.47	1.47	1.47	1.40	1.40	1.40	1.35	1.35	1.35	1.32
1.0	1.49	1.47	1.44	1.46	1.44	1.42	1.41	1.39	1.38	1.36	1.35	1.34	1.32	1.31	1.30	1.28
2.0	1.42	1.39	1.35	1.40	1.37	1.34	1.36	1.33	1.31	1.32	1.30	1.28	1.29	1.27	1.26	1.24
3.0	1.37	1.32	1.28	1.35	1.31	1.27	1.32	1.28	1.26	1.29	1.26	1.24	1.26	1.24	1.22	1.20
4.0	1.32	1.27	1.23	1.30	1.26	1.22	1.28	1.24	1.21	1.25	1.22	1.20	1.23	1.20	1.18	1.17
5.0	1.27	1.22	1.18	1.26	1.21	1.18	1.24	1.20	1.17	1.22	1.19	1.16	1.20	1.17	1.15	1.14
6.0	1.23	1.18	1.15	1.23	1.18	1.14	1.21	1.17	1.13	1.19	1.16	1.13	1.18	1.15	1.12	1.11
7.0	1.20	1.15	1.11	1.19	1.14	1.11	1.18	1.13	1.10	1.16	1.13	1.10	1.15	1.12	1.09	1.08
8.0	1.17	1.12	1.08	1.16	1.11	1.08	1.15	1.11	1.07	1.14	1.10	1.07	1.13	1.09	1.07	1.06
9.0	1.14	1.09	1.05	1.13	1.08	1.05	1.12	1.08	1.05	1.11	1.07	1.05	1.10	1.07	1.04	1.03
10.0	1.11	1.06	1.03	1.11	1.06	1.03	1.10	1.05	1.03	1.09	1.05	1.02	1.08	1.05	1.02	1.01



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-C40-3-24-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	.177	.101	.032	.169	.096	.031	.152	.087	.028	.137	.079	.025	.123	.072	.023	
2.0	.163	.089	.027	.156	.086	.026	.143	.079	.025	.130	.073	.023	.119	.067	.021	
3.0	.151	.080	.024	.145	.078	.023	.134	.073	.022	.124	.068	.021	.114	.063	.020	
4.0	.141	.073	.021	.136	.071	.021	.126	.067	.020	.118	.063	.019	.109	.059	.018	
5.0	.132	.067	.019	.128	.066	.019	.120	.062	.018	.112	.059	.018	.105	.056	.017	
6.0	.124	.062	.018	.121	.061	.018	.114	.058	.017	.107	.056	.016	.101	.053	.016	
7.0	.117	.058	.016	.114	.057	.016	.108	.055	.016	.103	.053	.015	.098	.051	.015	
8.0	.111	.054	.015	.109	.054	.015	.104	.052	.015	.099	.050	.014	.094	.048	.014	
9.0	.106	.051	.014	.104	.051	.014	.099	.049	.014	.095	.048	.014	.091	.046	.013	
10.0	.101	.049	.014	.099	.048	.013	.095	.047	.013	.091	.045	.013	.088	.044	.013	

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	.251	.251	.251	.215	.215	.215	.147	.147	.147	.084	.084	.084	.027	.027	.027	
1.0	.222	.208	.196	.190	.179	.168	.130	.123	.116	.075	.071	.068	.024	.023	.022	
2.0	.198	.175	.156	.169	.151	.135	.116	.104	.094	.067	.061	.055	.021	.020	.018	
3.0	.178	.149	.127	.152	.129	.110	.104	.090	.077	.060	.052	.046	.019	.017	.015	
4.0	.161	.129	.105	.138	.112	.091	.095	.078	.064	.055	.046	.038	.018	.015	.012	
5.0	.146	.113	.088	.126	.097	.076	.087	.068	.054	.050	.040	.032	.016	.013	.011	
6.0	.134	.099	.074	.115	.086	.065	.080	.060	.046	.046	.035	.027	.015	.012	.009	
7.0	.124	.088	.064	.107	.077	.055	.074	.054	.039	.043	.032	.023	.014	.010	.008	
8.0	.115	.079	.055	.099	.069	.048	.069	.048	.034	.040	.029	.020	.013	.009	.007	
9.0	.107	.072	.048	.093	.062	.042	.064	.044	.030	.037	.026	.018	.012	.008	.006	
10.0	.101	.065	.042	.087	.057	.037	.060	.040	.026	.035	.024	.016	.011	.008	.005	

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-C40-3-24-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	0.4	1.1	0.6	1.2	1.4	-1.2	-0.6	-1.0	-0.5	-0.3				
3H	0.6	1.2	0.8	1.4	1.5	-0.8	-0.2	-0.6	-0.0	0.1				
4H	0.7	1.2	0.9	1.4	1.6	-0.5	0.1	-0.2	0.3	0.5				
6H	0.8	1.3	1.1	1.5	1.8	0.0	0.5	0.3	0.8	1.0				
8H	0.9	1.4	1.2	1.6	1.9	0.3	0.8	0.6	1.1	1.3				
12H	1.0	1.5	1.4	1.8	2.1	0.6	1.1	0.9	1.3	1.6				
4H 2H	0.4	1.0	0.7	1.2	1.4	-1.1	-0.5	-0.8	-0.3	-0.1				
3H	0.7	1.2	1.0	1.4	1.7	-0.5	-0.0	-0.2	0.2	0.5				
4H	0.8	1.3	1.2	1.6	1.9	-0.0	0.4	0.3	0.7	1.0				
6H	1.1	1.5	1.5	1.8	2.2	0.7	1.1	1.0	1.4	1.7				
8H	1.3	1.7	1.7	2.0	2.4	1.1	1.4	1.5	1.8	2.2				
12H	1.6	2.0	2.0	2.3	2.7	1.5	1.8	1.9	2.2	2.6				
8H 4H	0.9	1.3	1.3	1.6	2.0	0.1	0.5	0.5	0.8	1.2				
6H	1.4	1.7	1.8	2.1	2.5	1.0	1.3	1.4	1.7	2.1				
8H	1.8	2.0	2.2	2.5	2.9	1.6	1.8	2.0	2.3	2.7				
12H	2.3	2.6	2.8	3.0	3.5	2.1	2.4	2.6	2.8	3.3				
12H 4H	0.9	1.3	1.3	1.6	2.0	0.1	0.5	0.5	0.8	1.2				
6H	1.5	1.7	1.9	2.1	2.6	1.1	1.4	1.5	1.8	2.2				
8H	1.9	2.2	2.4	2.6	3.1	1.7	2.0	2.2	2.4	2.9				
Variations with the observer position at spacings(CIE Pub.117):														
S = 1.0H	+ 1.9 / - 1.3					+ 0.5 / - 0.6								
1.5H	+ 2.6 / - 1.5					+ 0.6 / - 0.4								
2.0H	+ 3.6 / - 1.7					+ 0.8 / - 0.8								

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:2024-01-22

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-C40-3-24-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

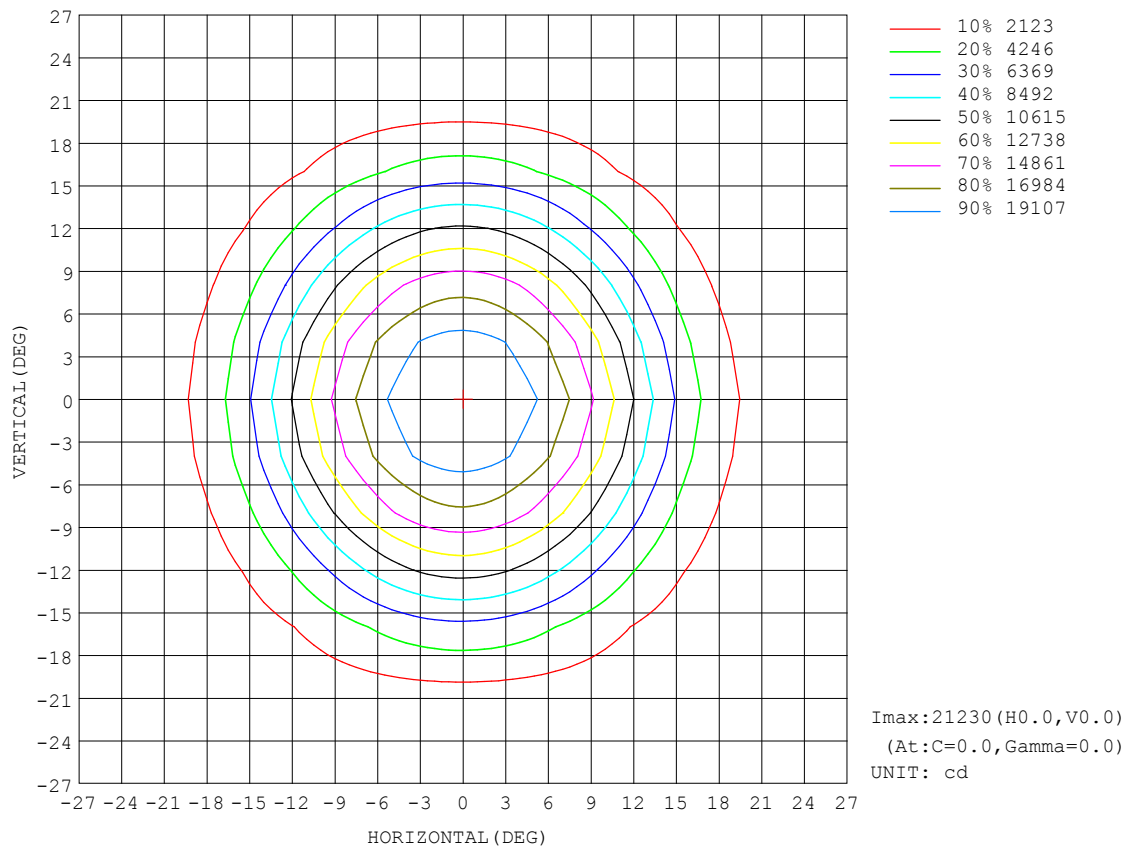
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	118	111	106	118	110	106	117	110	106	101
0.80	128	121	116	127	120	116	125	119	115	111
1.00	133	126	122	132	126	121	130	125	121	116
1.25	138	131	127	136	131	127	134	129	126	120
1.50	141	135	131	140	134	131	137	132	129	124
2.00	144	139	135	142	138	134	139	135	132	125
2.50	146	142	138	144	140	137	140	137	134	127
3.00	148	144	141	146	142	139	141	139	136	128
4.00	151	147	145	148	145	143	143	141	139	130
5.00	152	150	147	150	147	145	144	143	141	131
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:2024-01-22

$V(B)$ 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-C40-3-24-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

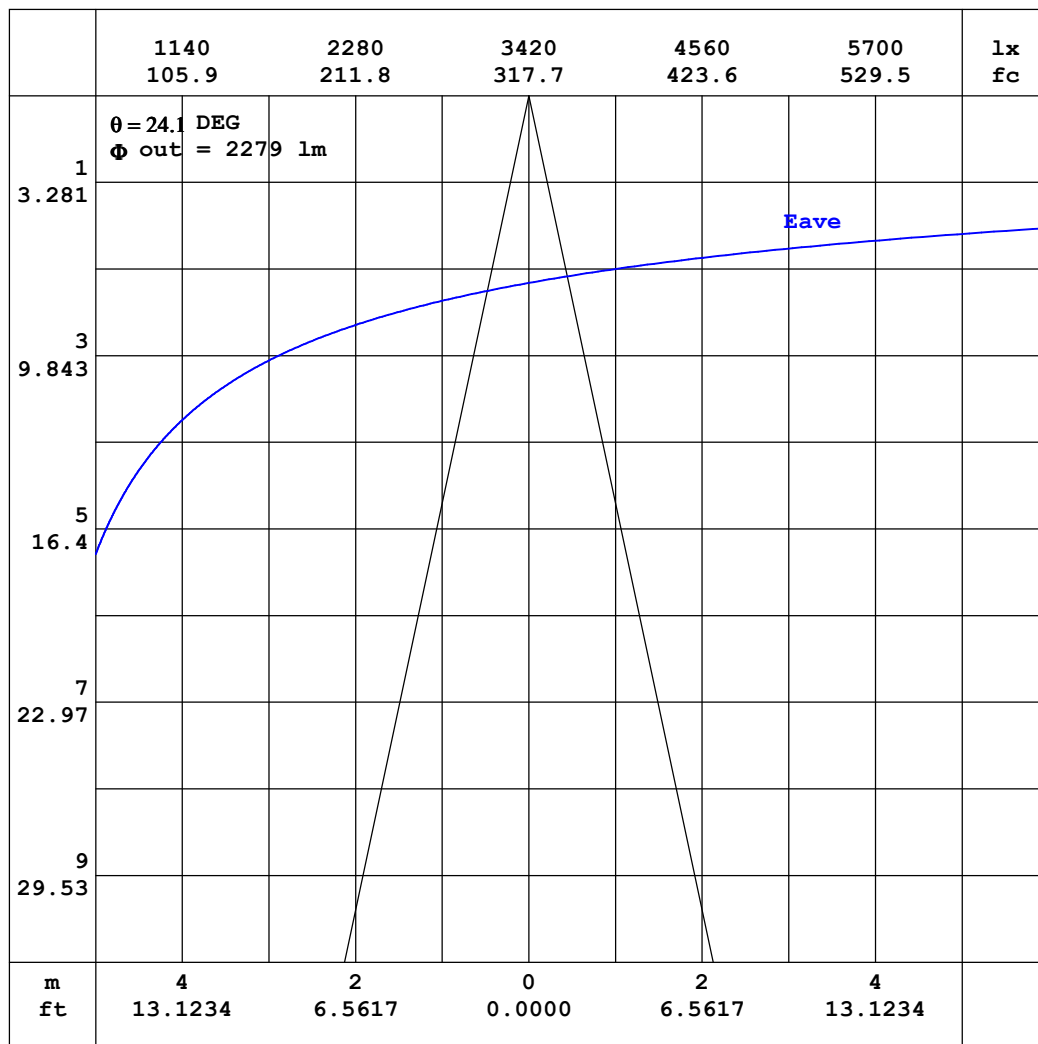


H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:ZT
Test Date:2024-01-22

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-C40-3-24-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



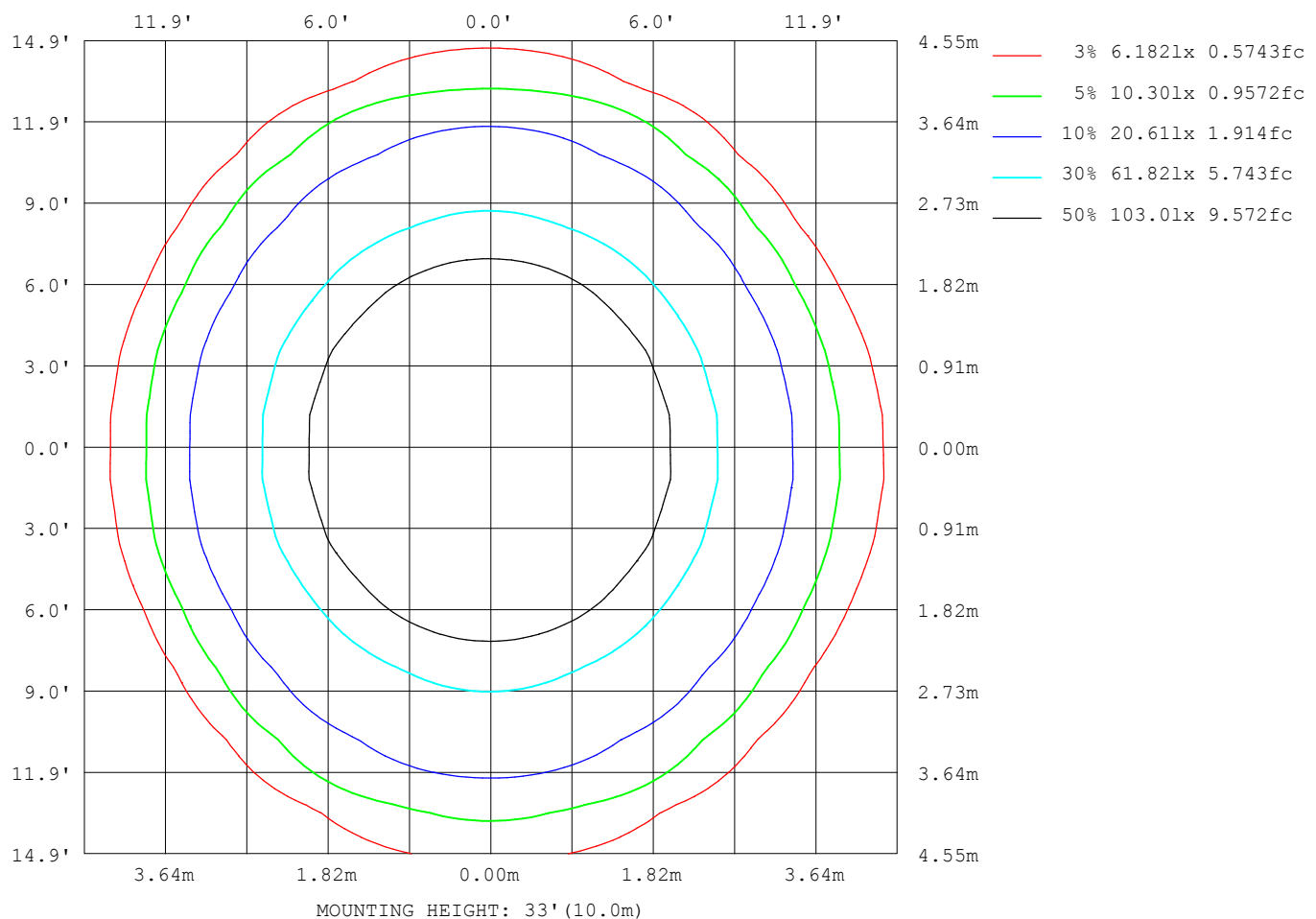
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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-C40-3-24-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-C40-3-24-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

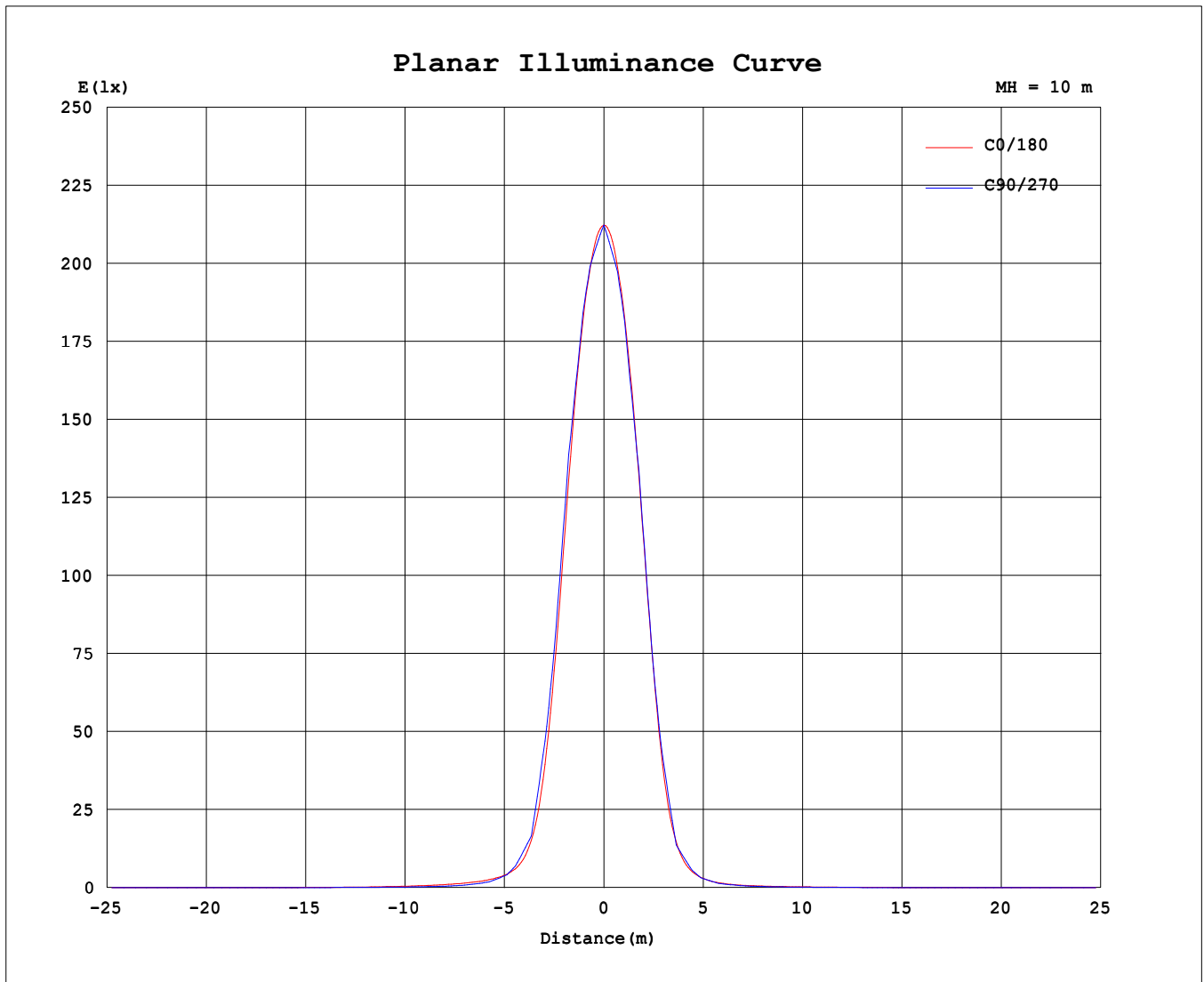
AvgL	cd/m2
L_0~180 (65) av	578
L_0~180 (75) av	630
L_0~180 (85) av	1392
L_90~270 (65) av	264
L_90~270 (75) av	268
L_90~270 (85) av	293
L_45 (65) av	260
L_45 (75) av	272
L_45 (85) av	545

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: