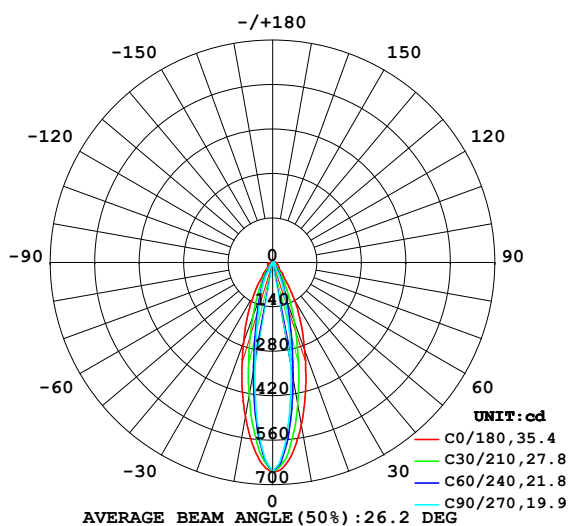


LUMINAIRE PHOTOMETRIC TEST REPORT

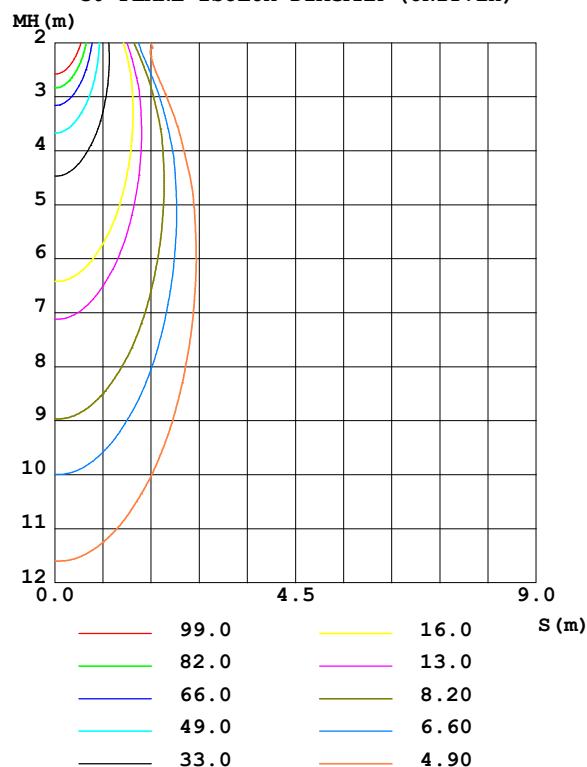
NAME: BL7025-C4-3-4020-80-B-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 52.11 lm/W
MODEL		Imax (cd)	659.2	S/MH (C0/180)	0.59	
NOMINAL POWER(W)	4	LOR (%)	35.9	S/MH (C90/270)	0.35	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	215.23	η UP,DN (C0-180)	0.0,18.2	
NOMINAL FLUX(lm)	600	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,17.7	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE (V)	120.4	η down (%)	35.9	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: LOW
Temperature:25.3°C
Operators:
Test Date:2025-02-10

V(B) Range:-90 - 90DEG
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	520.3	410.8	335.7	392.0	493.9	385.5	320.3	396.6	0- 10	48.62	48.62	22.6, 8.1
20	297.2	156.6	115.6	147.0	270.9	144.8	114.0	147.1	10- 20	73.93	122.6	56.9, 20.4
30	140.5	55.47	21.70	51.31	122.5	52.65	23.01	54.94	20- 30	50.18	172.7	80.3, 28.8
40	49.38	14.86	6.798	13.20	42.57	14.33	5.967	14.47	30- 40	21.42	194.2	90.2, 32.4
50	22.76	4.268	3.890	4.030	17.93	3.502	3.452	3.753	40- 50	8.546	202.7	94.2, 33.8
60	11.97	2.117	2.371	2.072	13.77	1.671	1.952	1.781	50- 60	4.703	207.4	96.4, 34.6
70	10.83	1.344	1.454	1.301	16.35	0.9564	1.081	1.030	60- 70	3.447	210.9	98, 35.1
80	9.912	0.9149	0.9692	0.9015	13.00	0.5789	0.6352	0.6200	70- 80	2.956	213.8	99.3, 35.6
90	0.6419	0.4389	0.4650	0.4586	0.5982	0.3537	0.3275	0.3341	80- 90	1.416	215.2	100, 35.9
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): 199.31 lm

%lum = 92.6%

%lamp = 33.2%

Conical surface Flux(120deg): 207.41 lm

%lum = 96.4%

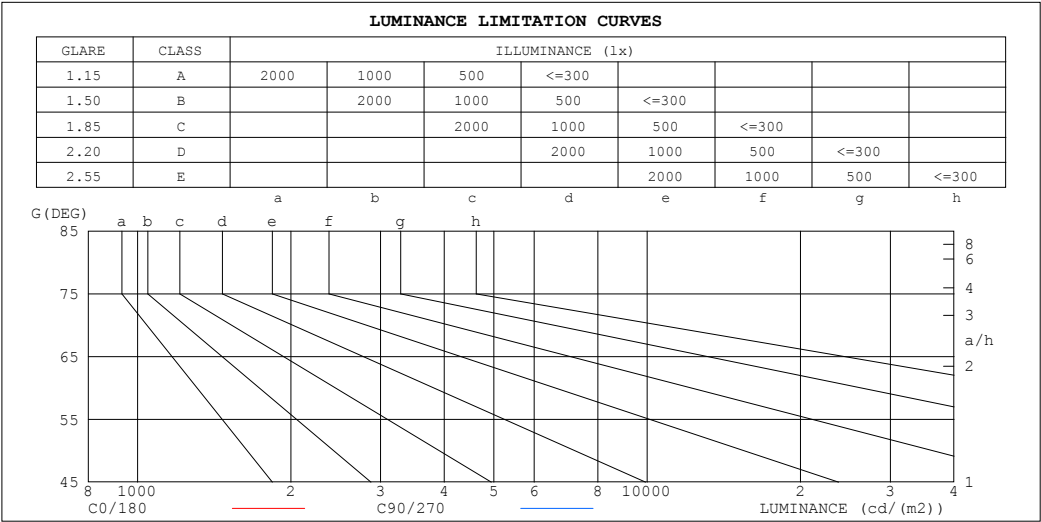
%lamp = 34.6%

H(β) Range:-90 - 90DEG
 H(β) Interval: 0.5DEG
 Test Speed: LOW
 Temperature:25.3℃
 Operators:
 Test Date:2025-02-10

V(B) Range:-90 - 90DEG
 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: BL7025-C4-3-4020-80-B-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	718	83
80	571	56
75	437	46
70	317	43
65	260	44
60	239	47
55	269	54
50	354	61
45	390	74

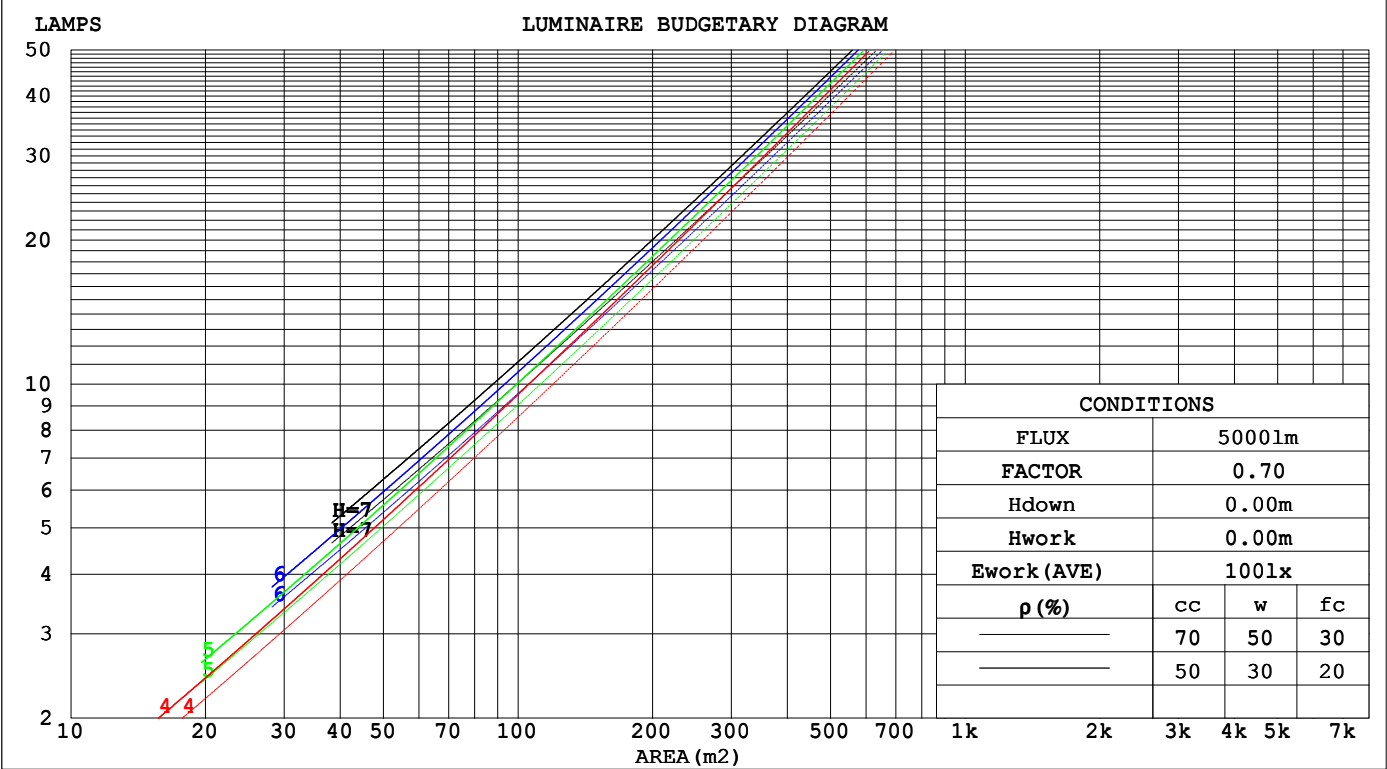
H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: LOW
Temperature:25.3℃
Operators:
Test Date:2025-02-10

V(B) Range:-90 - 90DEG
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: BL7025-C4-3-4020-80-B-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			Coefficients of Utilization(CU)												
0.0	.43	.43	.43	.42	.42	.42	.40	.40	.40	.38	.38	.38	.37	.37	.37	.36
1.0	.40	.39	.38	.39	.38	.37	.38	.37	.36	.36	.36	.35	.35	.35	.34	.34
2.0	.37	.36	.35	.37	.35	.34	.35	.34	.33	.34	.34	.33	.33	.33	.32	.32
3.0	.35	.33	.32	.34	.33	.32	.34	.32	.31	.33	.32	.31	.32	.31	.30	.30
4.0	.33	.31	.30	.33	.31	.30	.32	.30	.29	.31	.30	.29	.31	.30	.29	.28
5.0	.31	.29	.28	.31	.29	.28	.30	.29	.28	.30	.28	.27	.29	.28	.27	.27
6.0	.30	.28	.27	.30	.28	.26	.29	.27	.26	.29	.27	.26	.28	.27	.26	.25
7.0	.28	.27	.25	.28	.26	.25	.28	.26	.25	.27	.26	.25	.27	.26	.25	.24
8.0	.27	.25	.24	.27	.25	.24	.27	.25	.24	.26	.25	.24	.26	.25	.24	.23
9.0	.26	.24	.23	.26	.24	.23	.26	.24	.23	.25	.24	.23	.25	.24	.23	.22
10.0	.25	.23	.22	.25	.23	.22	.25	.23	.22	.24	.23	.22	.24	.23	.22	.21



H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: LOW
Temperature:25.3℃
Operators:
Test Date:2025-02-10

V(B) Range:-90 - 90DEG
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: BL7025-C4-3-4020-80-B-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	.064	.036	.011	.061	.035	.011	.057	.033	.010	.053	.030	.010	.049	.028	.009		
2.0	.059	.032	.010	.057	.031	.010	.053	.030	.009	.050	.028	.009	.047	.026	.008		
3.0	.055	.029	.009	.053	.029	.009	.050	.027	.008	.047	.026	.008	.044	.025	.008		
4.0	.052	.027	.008	.050	.026	.008	.047	.025	.008	.045	.024	.007	.042	.023	.007		
5.0	.048	.025	.007	.047	.024	.007	.045	.023	.007	.043	.023	.007	.041	.022	.007		
6.0	.046	.023	.007	.045	.023	.006	.043	.022	.006	.041	.021	.006	.039	.020	.006		
7.0	.043	.021	.006	.042	.021	.006	.041	.021	.006	.039	.020	.006	.037	.019	.006		
8.0	.041	.020	.006	.040	.020	.006	.039	.019	.006	.037	.019	.005	.036	.018	.005		
9.0	.039	.019	.005	.039	.019	.005	.037	.018	.005	.036	.018	.005	.034	.018	.005		
10.0	.038	.018	.005	.037	.018	.005	.036	.017	.005	.034	.017	.005	.033	.017	.005		

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	.068	.068	.068	.058	.058	.058	.040	.040	.040	.023	.023	.023	.007	.007	.007	
1.0	.061	.056	.052	.053	.048	.045	.036	.033	.031	.021	.019	.018	.007	.006	.006	
2.0	.056	.048	.041	.048	.041	.035	.033	.028	.025	.019	.016	.014	.006	.005	.005	
3.0	.051	.041	.033	.044	.035	.028	.030	.024	.020	.017	.014	.012	.006	.005	.004	
4.0	.047	.035	.027	.040	.031	.023	.028	.021	.016	.016	.012	.010	.005	.004	.003	
5.0	.044	.031	.022	.037	.027	.019	.026	.019	.014	.015	.011	.008	.005	.004	.003	
6.0	.041	.028	.018	.035	.024	.016	.024	.017	.011	.014	.010	.007	.005	.003	.002	
7.0	.038	.025	.016	.033	.022	.014	.023	.015	.010	.013	.009	.006	.004	.003	.002	
8.0	.036	.023	.014	.031	.020	.012	.021	.014	.008	.012	.008	.005	.004	.003	.002	
9.0	.034	.021	.012	.029	.018	.010	.020	.013	.007	.012	.007	.004	.004	.002	.001	
10.0	.032	.019	.010	.028	.017	.009	.019	.012	.006	.011	.007	.004	.004	.002	.001	

H(β) Range:-90 - 90DEG
 H(β) Interval: 0.5DEG
 Test Speed: LOW
 Temperature:25.3°C
 Operators:
 Test Date:2025-02-10

V(B) Range:-90 - 90DEG
 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: BL7025-C4-3-4020-80-B-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					6.8	7.6	7.0	7.8	7.9	-2.7	-1.8	-2.5	-1.7	-1.5
3H					8.2	9.0	8.4	9.2	9.4	-1.9	-1.1	-1.6	-0.9	-0.7
4H					9.5	10.3	9.8	10.5	10.7	-1.4	-0.6	-1.1	-0.4	-0.2
6H					11.3	12.0	11.6	12.2	12.5	-0.8	-0.1	-0.5	0.1	0.4
8H					12.1	12.8	12.4	13.0	13.3	-0.5	0.2	-0.2	0.4	0.7
12H					12.9	13.5	13.2	13.8	14.1	-0.2	0.5	0.2	0.8	1.0
4H 2H					6.5	7.3	6.8	7.5	7.7	-2.3	-1.6	-2.1	-1.4	-1.2
3H					8.0	8.6	8.3	8.9	9.2	-1.4	-0.7	-1.1	-0.5	-0.2
4H					9.4	10.0	9.8	10.3	10.6	-0.8	-0.2	-0.4	0.1	0.4
6H					11.4	11.9	11.8	12.3	12.6	-0.1	0.5	0.3	0.8	1.1
8H					12.4	12.9	12.8	13.2	13.6	0.3	0.8	0.7	1.2	1.5
12H					13.4	13.9	13.8	14.2	14.6	0.8	1.2	1.2	1.6	2.0
8H 4H					9.3	9.8	9.7	10.2	10.5	-0.4	0.1	-0.0	0.5	0.8
6H					11.3	11.7	11.7	12.1	12.5	0.5	0.9	0.9	1.3	1.7
8H					12.3	12.7	12.8	13.1	13.6	1.0	1.3	1.4	1.8	2.2
12H					13.5	13.8	14.0	14.2	14.7	1.6	1.9	2.0	2.3	2.8
12H 4H					9.3	9.7	9.7	10.1	10.5	-0.2	0.3	0.2	0.6	1.0
6H					11.2	11.6	11.7	12.0	12.5	0.7	1.1	1.2	1.5	1.9
8H					12.3	12.6	12.8	13.1	13.5	1.3	1.6	1.7	2.0	2.5
Variations with the observer position at spacings(CIE Pub.117):														
S = 1.0H					+ 0.6 / - 0.4					+ 0.4 / - 0.5				
1.5H					+ 1.5 / - 1.0					+ 0.2 / - 0.3				
2.0H					+ 1.6 / - 1.4					+ 0.4 / - 0.5				

CIE Pub.117, 600.0 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.8)
Area: 0.1 m2

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: LOW
Temperature:25.3°C
Operators:
Test Date:2025-02-10

V(B) Range:-90 - 90DEG
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: BL7025-C4-3-4020-80-B-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

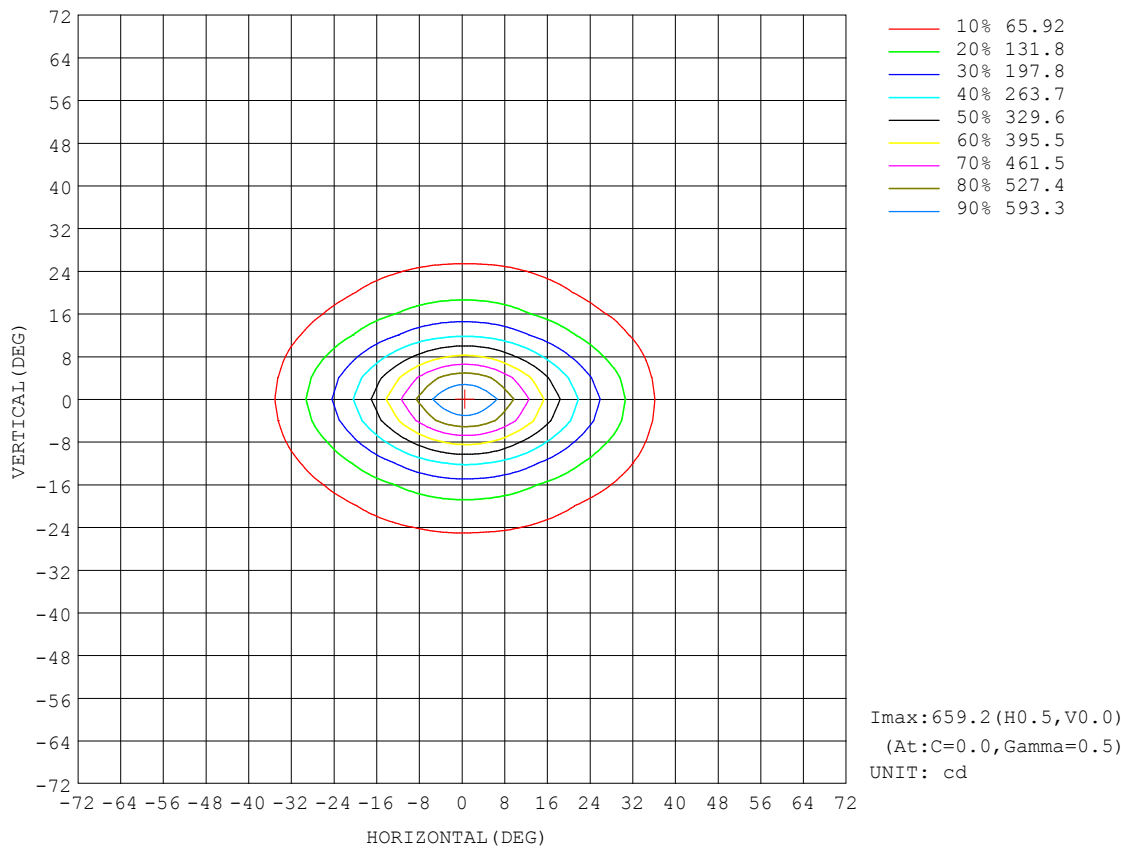
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	31	28	27	31	28	27	30	28	27	25
0.80	33	31	30	33	31	30	33	31	30	28
1.00	35	33	31	35	33	31	34	33	31	30
1.25	36	34	33	36	34	33	35	34	33	31
1.50	37	36	34	37	35	34	36	35	34	32
2.00	38	37	36	38	36	35	37	36	35	33
2.50	39	38	36	39	37	36	37	36	35	33
3.00	40	38	37	39	38	37	38	37	36	34
4.00	41	39	39	40	39	38	38	38	37	34
5.00	41	40	39	40	39	39	39	38	38	35
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: LOW
 Temperature:25.3°C
 Operators:
 Test Date:2025-02-10

$V(B)$ Range:-90 - 90DEG
 $V(B)$ 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

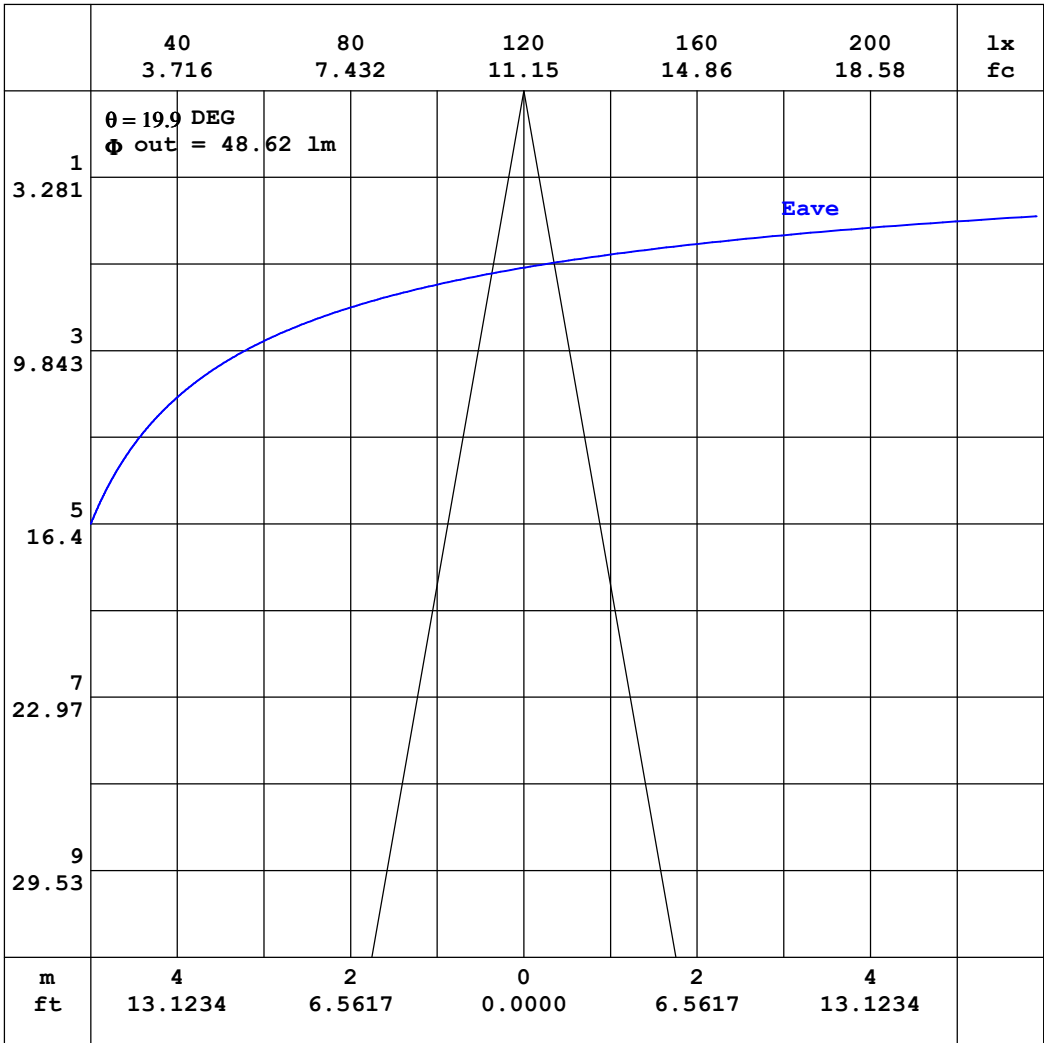
NAME: BL7025-C4-3-4020-80-B-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



H(β) Range:-90 - 90DEG	V(B) Range:-90 - 90DEG
H(β) Interval: 0.5DEG	V(B) Interval: 2.0DEG
Test Speed: LOW	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Temperature:25.3℃	Humidity:65.0%
Operators:	Test Distance:10.722m [K=1.0000]
Test Date:2025-02-10	Remarks:

AAI CURVES

NAME: BL7025-C4-3-4020-80-B-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



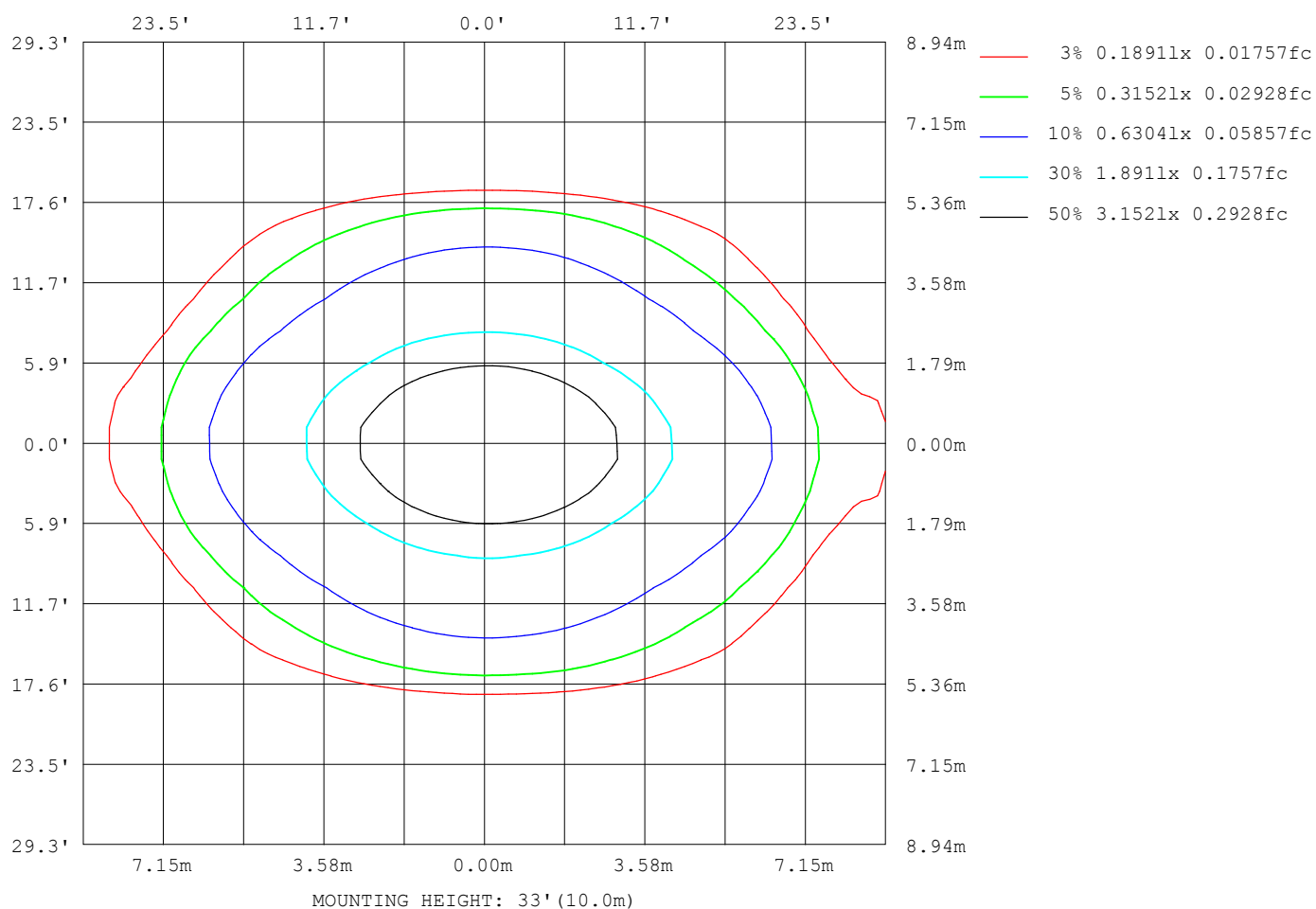
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: LOW
Temperature:25.3℃
Operators:
Test Date:2025-02-10

V(B) Range:-90 - 90DEG
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: BL7025-C4-3-4020-80-B-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: LOW
Temperature:25.3°C
Operators:
Test Date:2025-02-10

V(B) Range:-90 - 90DEG
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: BL7025-C4-3-4020-80-B-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

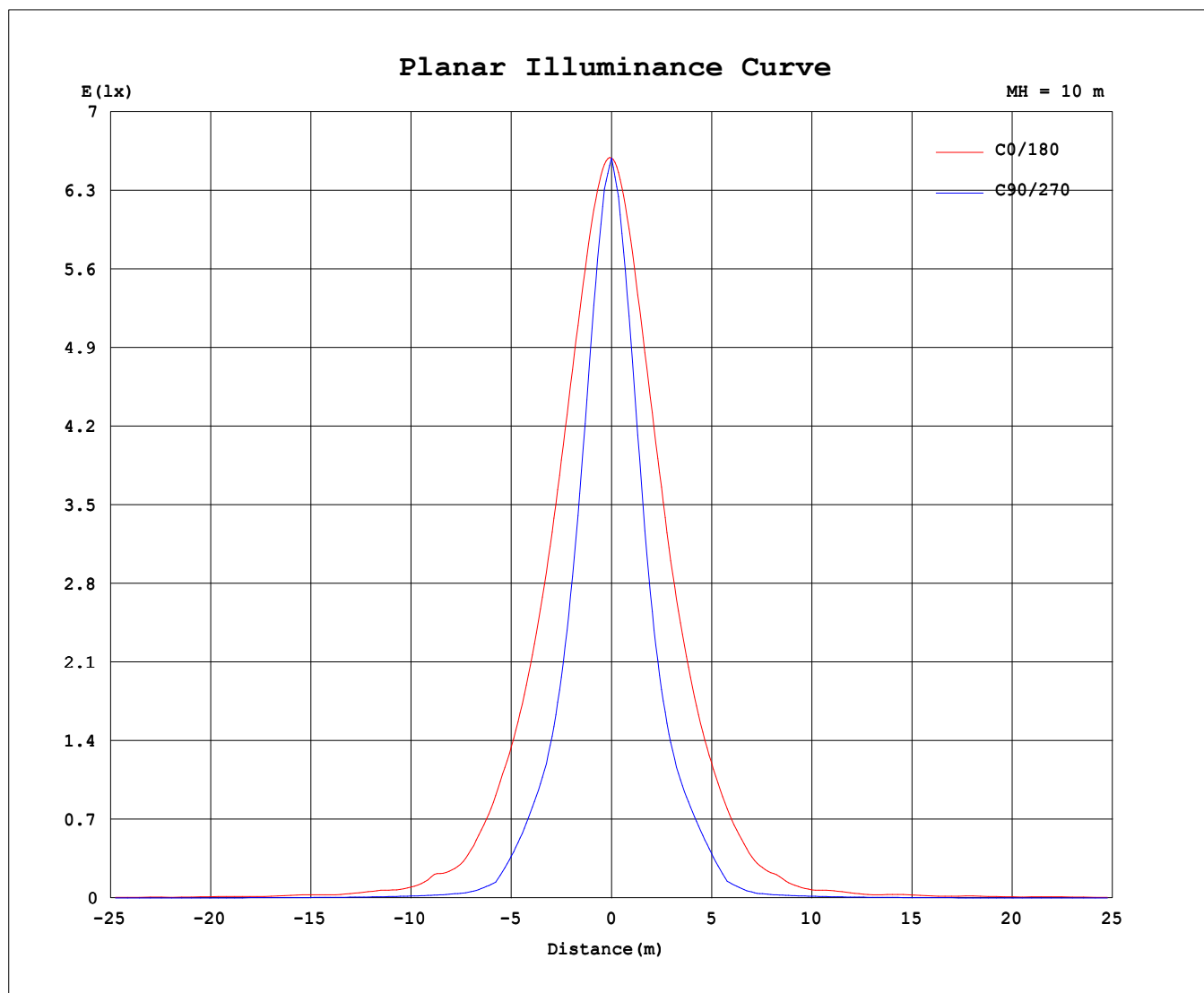
AvgL	cd/m2
L_0~180 (65) av	302
L_0~180 (75) av	513
L_0~180 (85) av	702
L_90~270 (65) av	39
L_90~270 (75) av	39
L_90~270 (85) av	69
L_45 (65) av	35
L_45 (75) av	36
L_45 (85) av	63

Standard: GB/T 29293-2012

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: LOW
Temperature:25.3℃
Operators:
Test Date:2025-02-10

V(B) Range:-90 - 90DEG
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: LOW
Temperature:25.3°C
Operators:
Test Date:2025-02-10

V(B) Range:-90 - 90DEG
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:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: BL7025-C4-3-4020-80-B-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

[illegible]

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: LOW
Temperature:25.3℃
Operators:
Test Date:2025-02-10

V(B) Range:-90 - 90DEG
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:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: BL7025-C4-3-4020-80-B-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--3

UNIT: cd

[illegible]

H(θ) Range:-90 - 90DEG
H(θ) Interval: 0.5DEG
Test Speed: LOW
Temperature:25.3℃
Operators:
Test Date:2025-02-10

V(B) Range:-90 - 90DEG
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:

