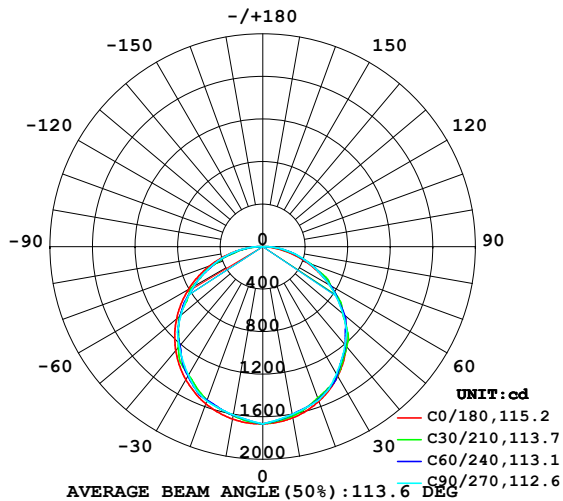


LUMINAIRE PHOTOMETRIC TEST REPORT

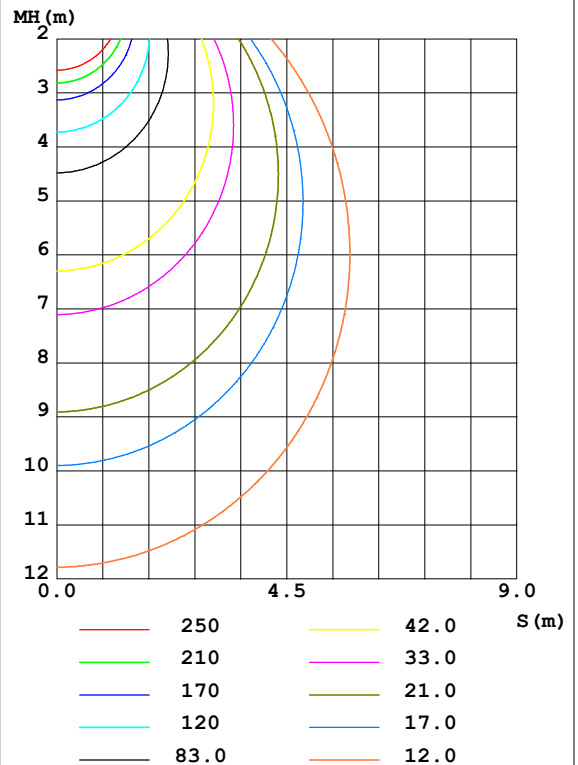
Test:U:120.20V I:0.3232A P:38.789W PF:0.9984 Freq:59.98Hz Lamp Flux:4853.62x1 lm		
NAME: FPB-24-5000L-AOK-L-G2		
MFR.: EVERFINE		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 125.13 lm/W			
MODEL		I _{max} (cd)	1667	S/MH(C0/180)	1.29
NOMINAL POWER(W)	40	LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	4853.6	η UP,DN(C0-180)	0.0,49.8
NOMINAL FLUX(lm)	4853.62	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.2
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	100.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-02-20

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:6.300m [K=0.9810]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

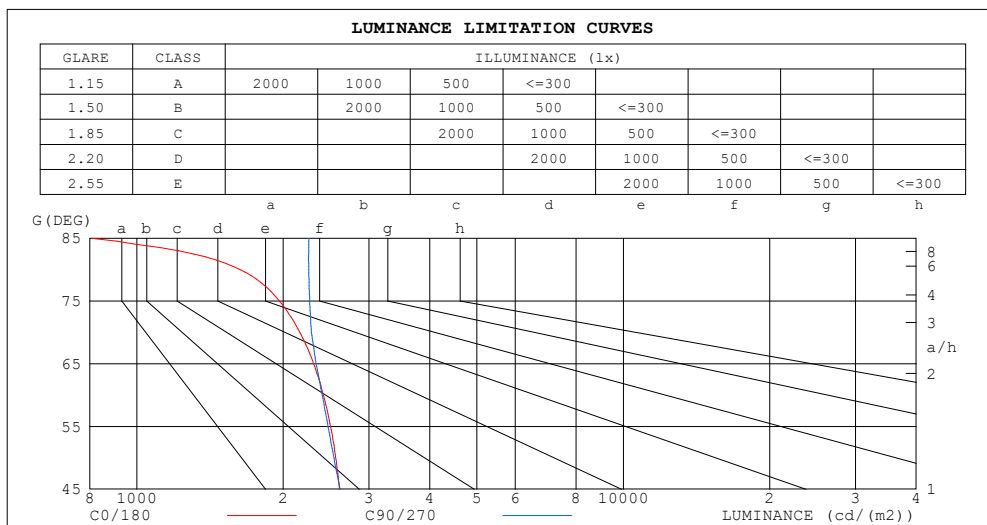
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1634	1607	1601	1607	1646	1610	1606	1610	0- 10	155.9	155.9	3.21,3.21
20	1547	1527	1535	1518	1572	1524	1545	1533	10- 20	445.3	601.2	12.4,12.4
30	1409	1403	1384	1407	1447	1415	1399	1410	20- 30	680.1	1281	26.4,26.4
40	1223	1203	1205	1223	1274	1232	1223	1210	30- 40	823.0	2104	43.4,43.4
50	994.2	983.5	985.6	1012	1059	1021	1007	989.2	40- 50	862.8	2967	61.1,61.1
60	729.6	737.1	725.3	758.8	807.6	765.8	749.6	740.2	50- 60	785.8	3753	77.3,77.3
70	446.2	473.5	471.3	478.3	532.5	482.0	495.8	474.8	60- 70	607.8	4361	89.8,89.8
80	170.8	232.6	236.3	229.5	258.4	230.1	252.8	232.0	70- 80	371.2	4732	97.5,97.5
90	0	2.509	1.214	2.831	10.92	3.164	9.791	1.350	80- 90	121.7	4854	100,100
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		

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-02-20

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:6.300m [K=0.9810]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.20V I:0.3232A P:38.789W PF:0.9984 Freq:59.98Hz		
Lamp Flux:4853.62x1 lm		
NAME: FPB-24-5000L-AOK-L-G2		
MFR.: EVERFINE		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	806	2260
80	1631	2256
75	1965	2267
70	2163	2285
65	2309	2336
60	2420	2405
55	2502	2473
50	2565	2542
45	2611	2616

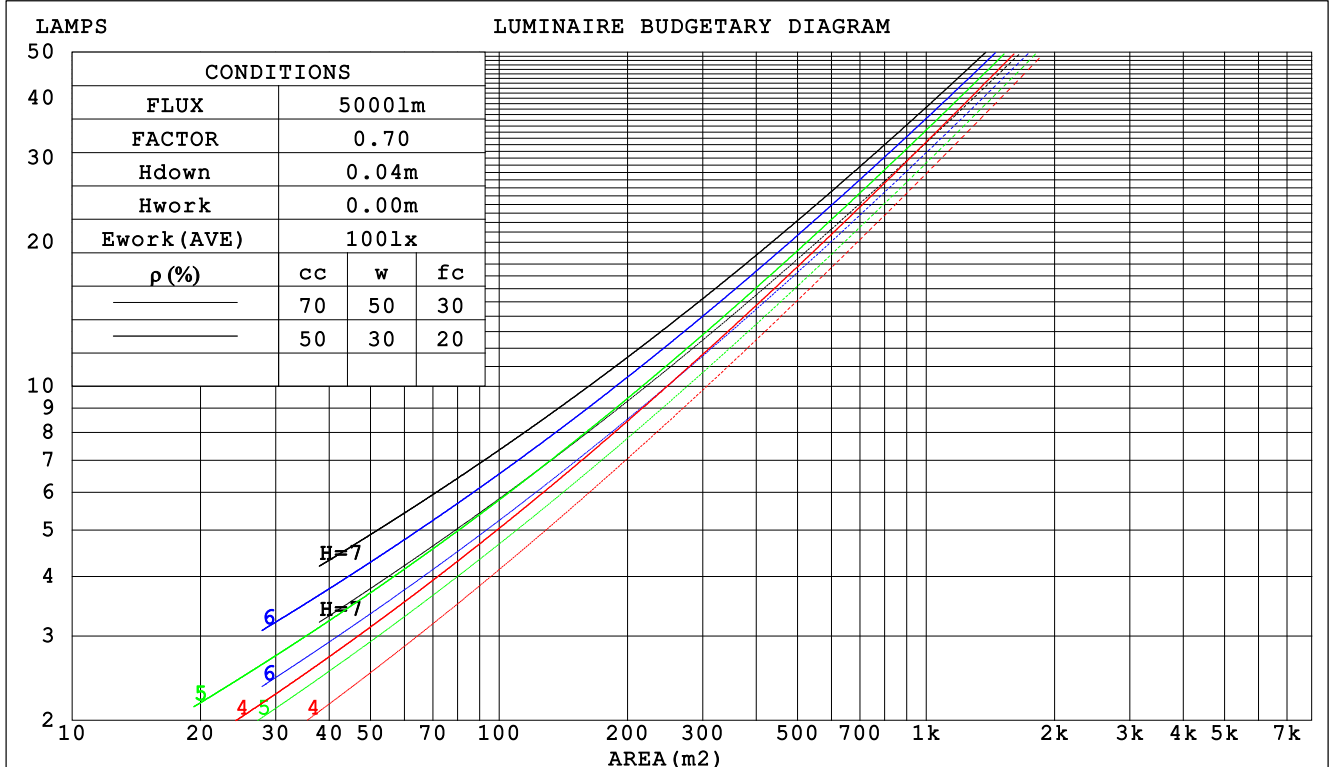
H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-02-20

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:6.300m [K=0.9810]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.20V I:0.3232A P:38.789W PF:0.9984 Freq:59.98Hz		
Lamp Flux:4853.62x1 lm		
NAME: FPB-24-5000L-AOK-L-G2		
MFR.: EVERFINE		

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	Coefficients of Utilization(CU)															
RCR:Room Cavity Ratio																
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.03	.99	.95	1.01	.97	.93	.97	.93	.90	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.81	.76	.84	.79	.74	.81	.76	.72	.78	.74	.71	.69
3.0	.79	.70	.64	.77	.69	.63	.74	.67	.62	.71	.65	.61	.69	.64	.60	.57
4.0	.69	.61	.54	.68	.60	.53	.66	.58	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.45	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.40	.51	.44	.39	.50	.44	.39	.37
7.0	.50	.42	.35	.50	.41	.35	.48	.40	.35	.47	.40	.35	.45	.39	.34	.32
8.0	.46	.37	.31	.45	.37	.31	.44	.37	.31	.43	.36	.31	.42	.35	.31	.29
9.0	.42	.34	.28	.42	.34	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.38	.31	.26	.37	.30	.25	.36	.30	.25	.36	.30	.25	.23



H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-02-20

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:6.300m [K=0.9810]
Remarks:

WEC AND CCEC

Test:U:120.20V I:0.3232A P:38.789W PF:0.9984 Freq:59.98Hz											
Lamp Flux:4853.62x1 lm											
NAME: FPB-24-5000L-AOK-L-G2											
MFR.: EVERFINE											

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	.320	.182	.058	.313	.179	.057	.300	.172	.055	.288	.166	.053	.276	.160	.052	
2.0	.299	.164	.050	.292	.161	.050	.281	.156	.048	.270	.151	.047	.260	.147	.046	
3.0	.275	.146	.044	.269	.144	.043	.259	.140	.043	.249	.137	.042	.240	.133	.041	
4.0	.253	.131	.039	.248	.130	.038	.239	.127	.038	.230	.124	.037	.222	.121	.037	
5.0	.233	.119	.034	.229	.118	.034	.221	.115	.034	.213	.112	.033	.206	.110	.033	
6.0	.216	.108	.031	.212	.107	.031	.205	.105	.031	.198	.103	.030	.192	.101	.030	
7.0	.201	.099	.028	.197	.098	.028	.191	.096	.028	.185	.095	.028	.179	.093	.027	
8.0	.187	.092	.026	.184	.091	.026	.178	.089	.025	.173	.088	.025	.168	.086	.025	
9.0	.175	.085	.024	.173	.084	.024	.167	.083	.023	.162	.081	.023	.158	.080	.023	
10.0	.165	.079	.022	.162	.078	.022	.158	.077	.022	.153	.076	.022	.149	.075	.021	

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.181	.156	.134	.155	.134	.115	.106	.092	.079	.061	.053	.046	.020	.017	.015	
2.0	.173	.132	.097	.148	.114	.084	.102	.079	.059	.059	.046	.034	.019	.015	.011	
3.0	.165	.114	.074	.142	.099	.064	.097	.069	.045	.056	.040	.026	.018	.013	.009	
4.0	.158	.101	.058	.135	.087	.050	.093	.061	.035	.054	.036	.021	.017	.012	.007	
5.0	.150	.091	.047	.129	.078	.041	.089	.055	.029	.052	.032	.017	.017	.011	.006	
6.0	.143	.082	.039	.123	.071	.034	.085	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.136	.075	.033	.117	.065	.029	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.130	.070	.028	.112	.060	.025	.077	.042	.018	.045	.025	.011	.015	.008	.003	
9.0	.123	.065	.025	.106	.056	.022	.074	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.118	.060	.022	.101	.052	.019	.070	.037	.014	.041	.022	.008	.013	.007	.003	

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-02-20

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:6.300m [K=0.9810]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.20V I:0.3232A P:38.789W PF:0.9984 Freq:59.98Hz		
Lamp Flux:4853.62x1 lm		
NAME: FPB-24-5000L-AOK-L-G2		
MFR.: EVERFINE		

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	10.6	12.1	10.9	12.3	12.6	10.5	12.0	10.7	12.2	12.4
3H	12.2	13.6	12.5	13.8	14.1	12.1	13.5	12.4	13.7	14.0
4H	12.8	14.2	13.1	14.4	14.7	12.8	14.1	13.1	14.4	14.6
6H	13.2	14.5	13.5	14.8	15.0	13.4	14.6	13.7	14.9	15.2
8H	13.3	14.5	13.6	14.8	15.1	13.6	14.8	13.9	15.1	15.4
12H	13.3	14.5	13.7	14.8	15.1	13.8	15.0	14.1	15.3	15.6
4H 2H	11.2	12.6	11.5	12.8	13.1	11.1	12.5	11.4	12.7	13.0
3H	13.0	14.2	13.4	14.5	14.8	12.9	14.1	13.3	14.4	14.7
4H	13.8	14.9	14.1	15.2	15.5	13.7	14.8	14.1	15.2	15.5
6H	14.3	15.3	14.7	15.6	16.0	14.5	15.5	14.9	15.8	16.2
8H	14.5	15.4	14.9	15.8	16.1	14.8	15.7	15.2	16.1	16.4
12H	14.6	15.4	15.0	15.8	16.2	15.0	15.9	15.4	16.2	16.6
8H 4H	14.1	15.0	14.5	15.4	15.7	14.1	15.0	14.5	15.3	15.7
6H	14.8	15.6	15.3	16.0	16.4	15.0	15.7	15.4	16.1	16.6
8H	15.1	15.8	15.5	16.2	16.6	15.4	16.1	15.9	16.5	16.9
12H	15.3	15.8	15.7	16.3	16.8	15.7	16.3	16.2	16.8	17.2
12H 4H	14.1	14.9	14.5	15.3	15.7	14.1	14.9	14.5	15.3	15.7
6H	14.9	15.6	15.4	16.0	16.5	15.1	15.7	15.5	16.2	16.6
8H	15.2	15.8	15.7	16.3	16.7	15.5	16.1	16.0	16.6	17.0
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.2 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.3 / - 0.4					+ 0.2 / - 0.3				
2.0H	+ 0.3 / - 0.5					+ 0.1 / - 0.3				

CIE Pub.117, 4854 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 5.5)
Area: 0.603098 m2

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-02-20

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:6.300m [K=0.9810]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.20V I:0.3232A P:38.789W PF:0.9984 Freq:59.98Hz		
Lamp Flux:4853.62x1 lm		
NAME: FPB-24-5000L-AOK-L-G2		
MFR.: EVERFINE		

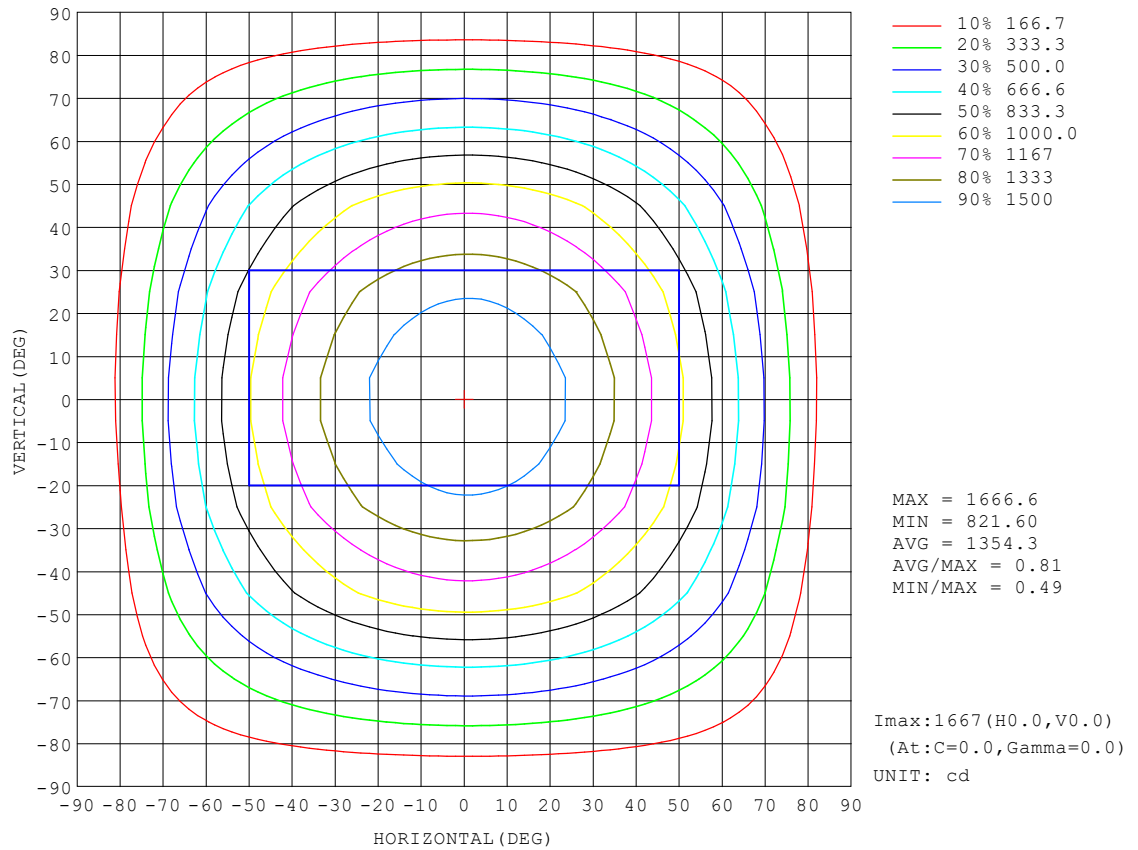
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	44	38	31
0.80	67	55	48	66	55	47	64	54	47	40
1.00	75	64	56	74	63	56	72	65	56	48
1.25	82	72	64	81	71	64	78	69	63	56
1.50	87	77	70	86	76	70	83	75	69	61
2.00	94	86	79	92	84	78	89	82	77	69
2.50	98	90	84	96	89	83	92	86	81	73
3.00	102	95	89	99	93	88	95	90	86	77
4.00	106	100	95	103	98	94	99	95	91	82
5.00	108	103	99	106	101	97	101	98	94	85
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

$H(\beta)$ Range:-90 - 90DEG
 $H(\beta)$ Interval: 2.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2025-02-20

$V(B)$ Range:-90 - 90DEG
 $V(B)$ Interval: 5.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:6.300m [K=0.9810]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.20V I:0.3232A P:38.789W PF:0.9984 Freq:59.98Hz		
Lamp Flux:4853.62x1 lm		
NAME: FPB-24-5000L-AOK-L-G2		
MFR.: EVERFINE		

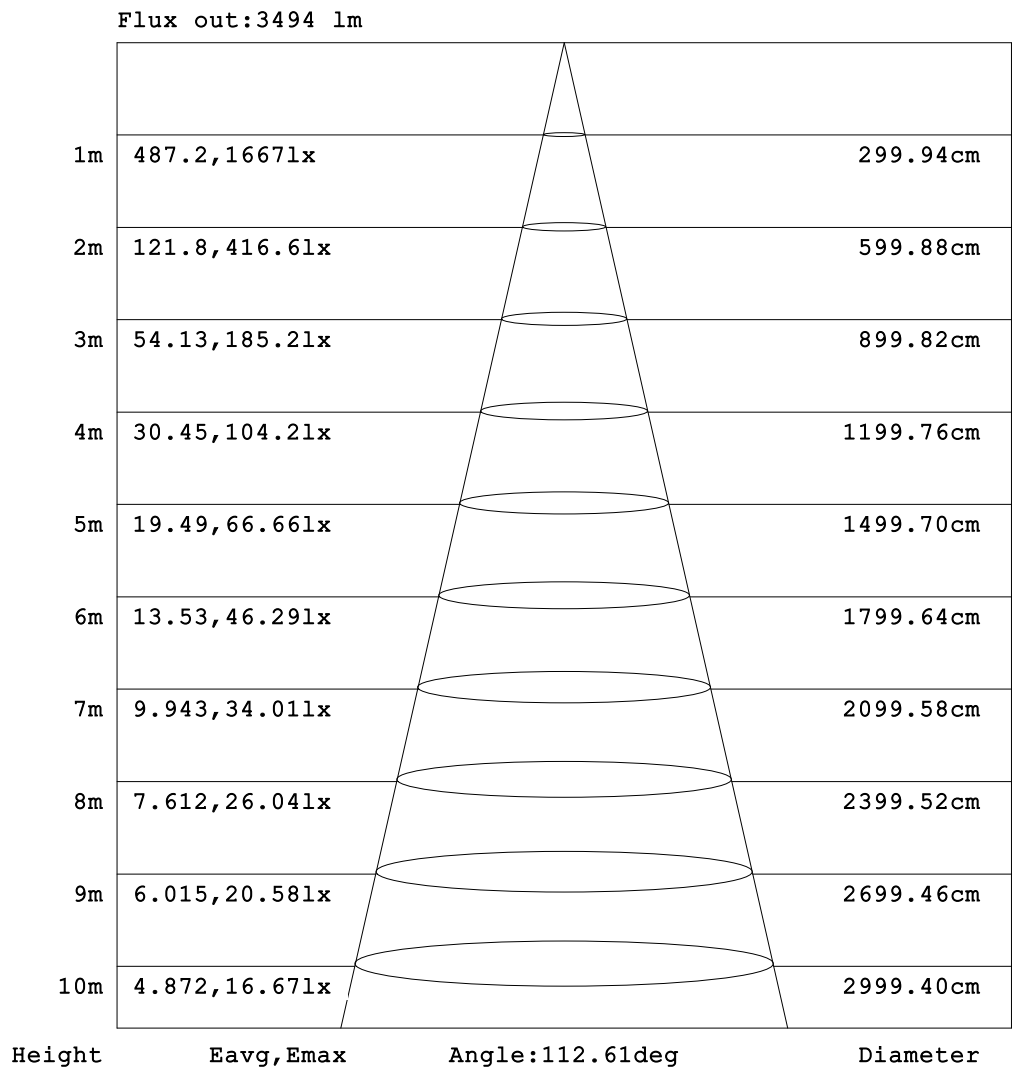


H(β) Range:-90 - 90DEG
 H(β) Interval: 2.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2025-02-20

V(B) Range:-90 - 90DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:6.300m [K=0.9810]
 Remarks:

AAI Figure

Test:U:120.20V I:0.3232A P:38.789W PF:0.9984 Freq:59.98Hz Lamp Flux:4853.62x1 lm		
NAME: FPB-24-5000L-AOK-L-G2		
MFR.: EVERFINE		



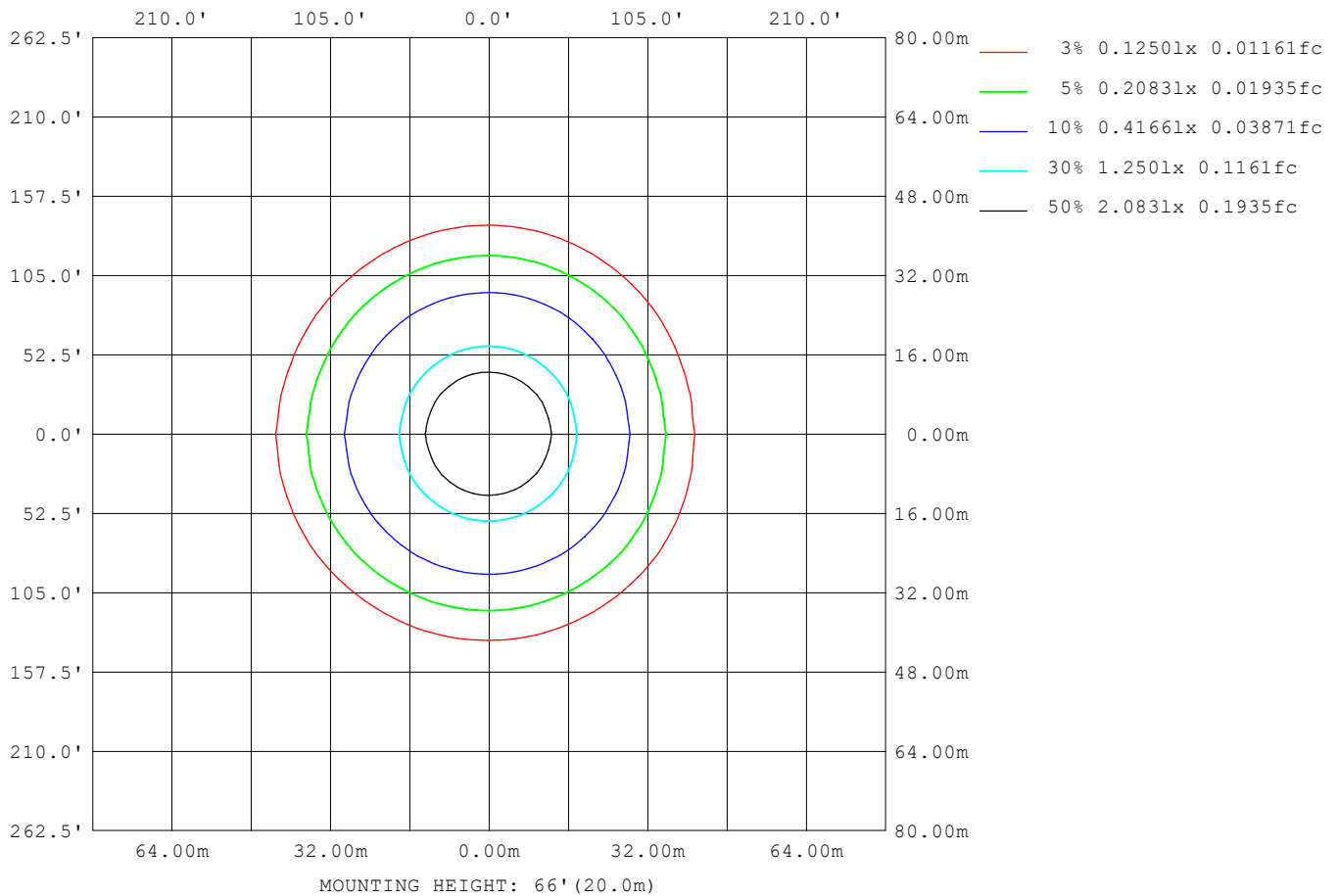
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-02-20

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:6.300m [K=0.9810]
Remarks:

ISOLUX DIAGRAM

Test:U:120.20V I:0.3232A P:38.789W PF:0.9984 Freq:59.98Hz Lamp Flux:4853.62x1 lm		
NAME: FPB-24-5000L-AOK-L-G2		
MFR.: EVERFINE		



H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-02-20

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:6.300m [K=0.9810]
Remarks:

LED Avg.L Report

Test:U:120.20V I:0.3232A P:38.789W PF:0.9984 Freq:59.98Hz Lamp Flux:4853.62x1 lm		
NAME: FPB-24-5000L-AOK-L-G2		
MFR.: EVERFINE		

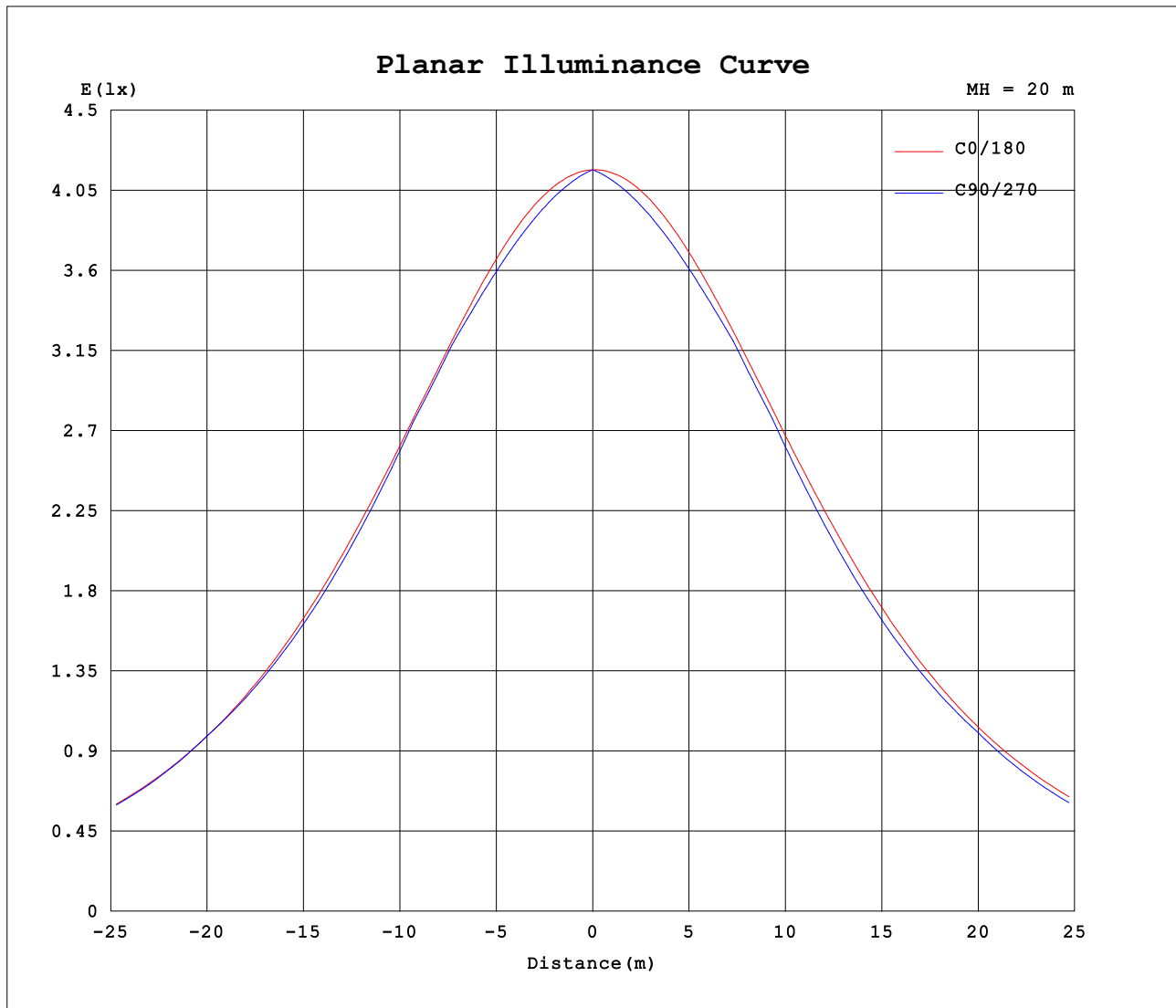
AvgL	cd/m2
L_0~180 (65) av	2472
L_0~180 (75) av	2243
L_0~180 (85) av	1540
L_90~270 (65) av	2386
L_90~270 (75) av	2333
L_90~270 (85) av	2380
L_45 (65) av	2403
L_45 (75) av	2235
L_45 (85) av	2208

Standard: GB/T 29293-2012

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-02-20

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:6.300m [K=0.9810]
Remarks:

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-02-20

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:6.300m [K=0.9810]
Remarks:

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:6.300m [K=0.9810]
Remarks:

V(B) Range:-90 - 90DEG
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Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
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Remarks: