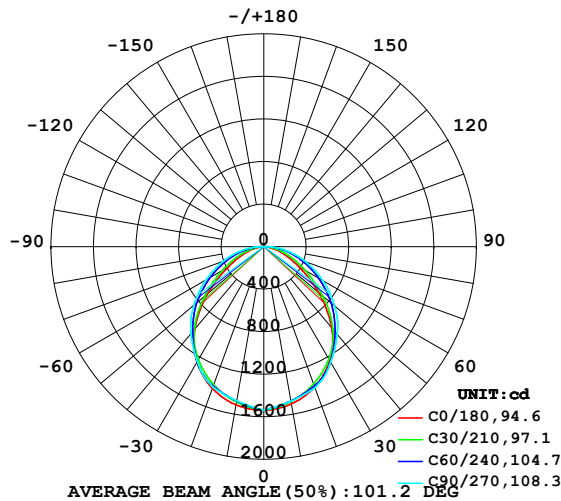


LUMINAIRE PHOTOMETRIC TEST REPORT

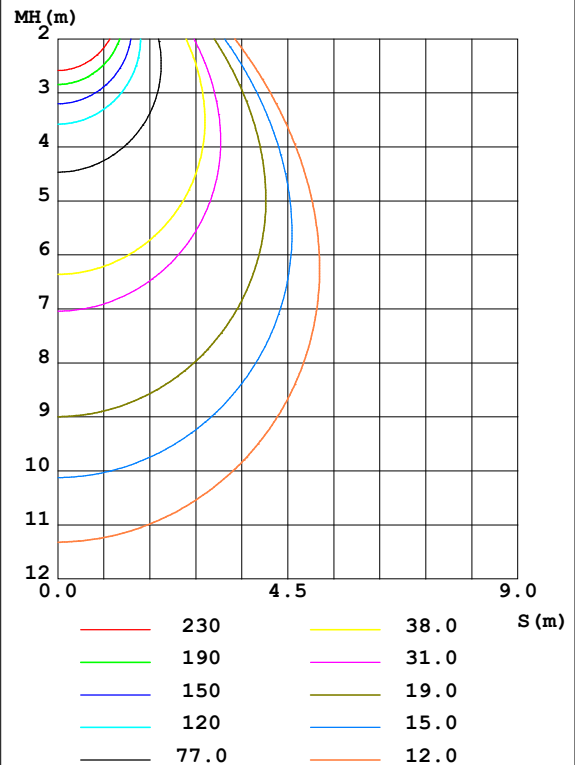
Test:U:120.36V I:0.2532A P:30.422W PF:0.9983 Freq:59.98Hz		
Lamp Flux:3852.34x1 lm		
NAME: L7422-30W-AOK-RFKW-SL		
MFR.: EVERFINE		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 126.63 lm/W			
MODEL		I _{max} (cd)	1538	S/MH(C0/180)	1.22
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	1.21
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	3852.3	η UP,DN(C0-180)	0.0,50.2
NOMINAL FLUX(lm)	3852.34	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.8
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:2024-07-23

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=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

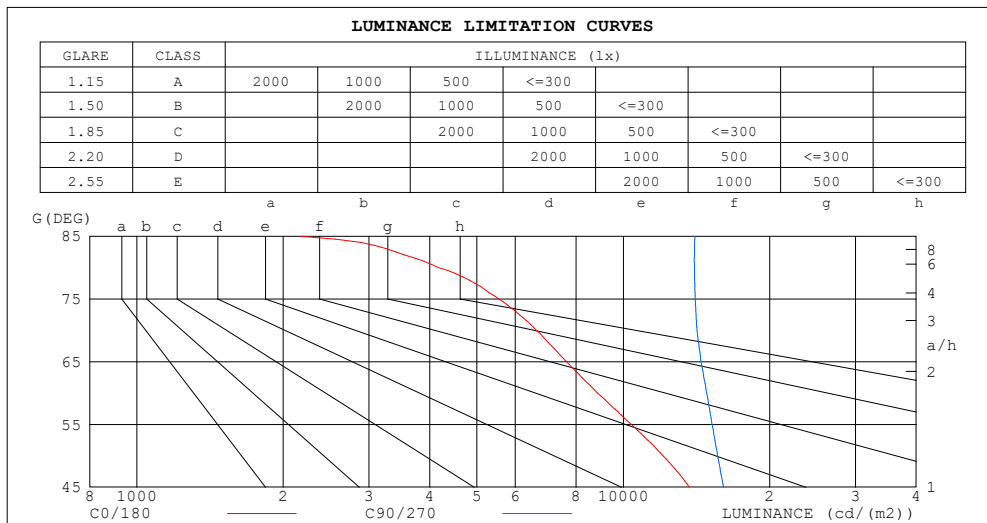
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1501	1474	1475	1480	1510	1478	1472	1472	0- 10	143.4	143.4	3.72,3.72
20	1404	1380	1411	1389	1417	1385	1405	1375	10- 20	406.5	549.9	14.3,14.3
30	1240	1245	1258	1256	1256	1248	1250	1239	20- 30	610.2	1160	30.1,30.1
40	993.9	1025	1075	1035	1010	1025	1065	1018	30- 40	711.7	1872	48.6,48.6
50	672.2	775.5	870.2	782.6	687.3	772.0	857.4	769.9	40- 50	695.5	2567	66.6,66.6
60	383.3	532.2	642.6	532.4	391.5	523.6	628.1	527.8	50- 60	573.5	3141	81.5,81.5
70	196.4	322.1	419.7	313.2	197.7	306.7	405.6	317.3	60- 70	404.0	3545	92,92
80	62.77	151.1	210.5	143.7	62.79	140.3	203.3	148.2	70- 80	233.1	3778	98.1,98.1
90	0.4763	1.379	1.415	1.117	0.4957	0.9497	1.066	1.703	80- 90	74.37	3852	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:2024-07-23

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=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.36V I:0.2532A P:30.422W PF:0.9983 Freq:59.98Hz Lamp Flux:3852.34x1 lm		
NAME: L7422-30W-AOK-REKW-SL		
MFR.: EVERFINE		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2168	14041
80	4174	14001
75	5555	14059
70	6631	14169
65	7647	14450
60	8853	14841
55	10390	15228
50	12076	15633
45	13673	16069

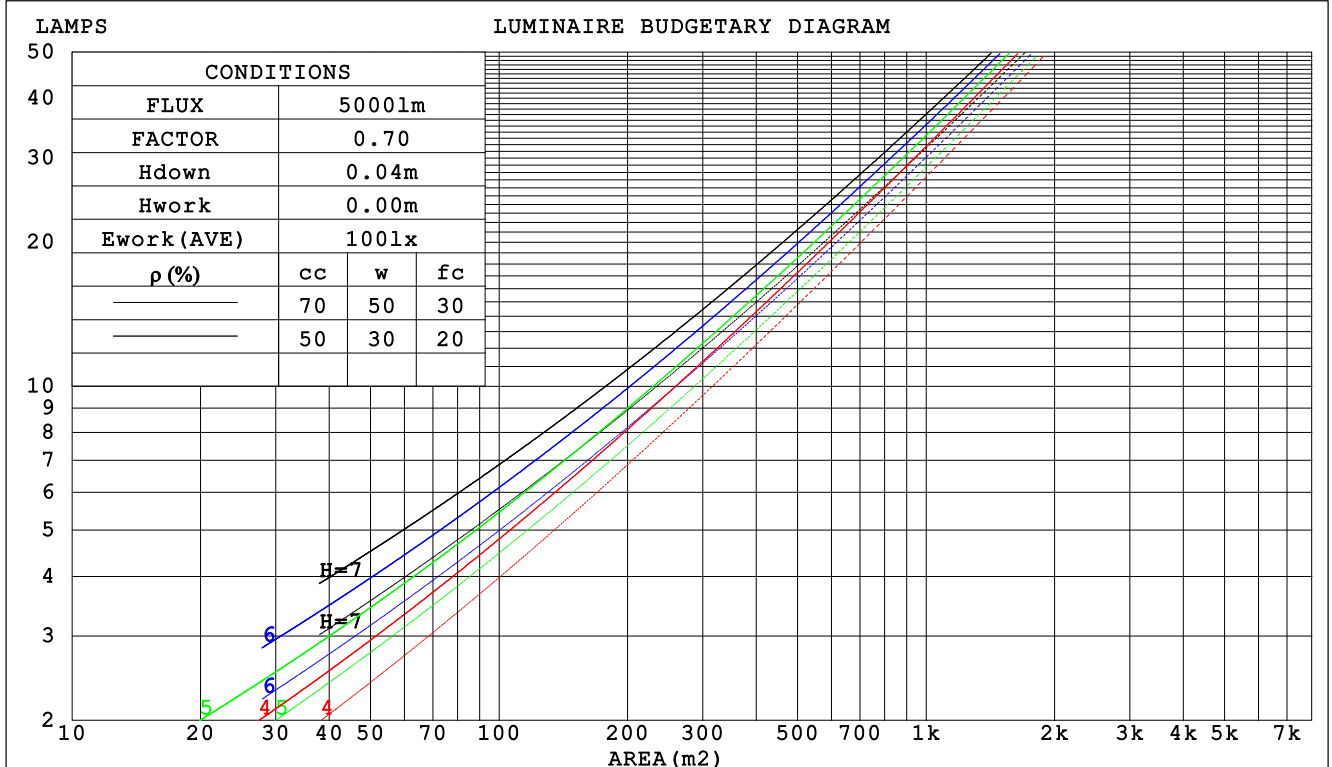
H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-07-23

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=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.36V I:0.2532A P:30.422W PF:0.9983 Freq:59.98Hz		
Lamp Flux:3852.34x1 lm		
NAME: L7422-30W-AOK-REKW-SL		
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	1.04	1.00	.97	1.02	.98	.95	.98	.95	.92	.94	.92	.89	.90	.88	.87	.84
2.0	.92	.85	.79	.90	.84	.79	.86	.81	.77	.83	.79	.75	.80	.76	.73	.71
3.0	.81	.73	.67	.79	.72	.66	.76	.70	.65	.74	.68	.64	.71	.67	.63	.61
4.0	.72	.63	.57	.71	.63	.57	.68	.61	.56	.66	.60	.55	.64	.59	.54	.52
5.0	.65	.56	.49	.63	.55	.49	.61	.54	.49	.59	.53	.48	.58	.52	.48	.45
6.0	.58	.50	.43	.57	.49	.43	.56	.48	.43	.54	.47	.42	.52	.47	.42	.40
7.0	.53	.44	.38	.52	.44	.38	.51	.43	.38	.49	.43	.38	.48	.42	.37	.36
8.0	.49	.40	.34	.48	.40	.34	.47	.39	.34	.45	.39	.34	.44	.38	.34	.32
9.0	.45	.37	.31	.44	.36	.31	.43	.36	.31	.42	.35	.31	.41	.35	.31	.29
10.0	.41	.33	.28	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.28	.26



H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-07-23

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=1.0000]
Remarks:

WEC AND CCEC

Test:U:120.36V I:0.2532A P:30.422W PF:0.9983 Freq:59.98Hz											
Lamp Flux:3852.34x1 lm											
NAME: L7422-30W-AOK-REKW-SL											
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	.298	.170	.054	.291	.166	.053	.278	.159	.051	.266	.153	.049	.255	.148	.048			
2.0	.280	.154	.047	.274	.151	.047	.263	.146	.045	.252	.141	.044	.242	.137	.043			
3.0	.260	.138	.041	.255	.136	.041	.244	.132	.040	.235	.129	.039	.226	.125	.039			
4.0	.241	.125	.037	.236	.123	.036	.227	.120	.036	.218	.117	.035	.211	.114	.035			
5.0	.223	.114	.033	.219	.112	.033	.211	.110	.032	.203	.107	.032	.196	.105	.032			
6.0	.208	.104	.030	.204	.103	.030	.197	.101	.029	.190	.099	.029	.184	.097	.029			
7.0	.194	.096	.027	.190	.095	.027	.184	.093	.027	.178	.091	.027	.172	.090	.026			
8.0	.181	.089	.025	.178	.088	.025	.173	.086	.025	.167	.085	.024	.162	.083	.024			
9.0	.170	.082	.023	.168	.082	.023	.162	.080	.023	.158	.079	.023	.153	.078	.022			
10.0	.160	.077	.021	.158	.076	.021	.153	.075	.021	.149	.074	.021	.145	.073	.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	.179	.156	.135	.154	.134	.116	.105	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.171	.132	.099	.146	.114	.086	.100	.079	.060	.058	.046	.035	.019	.015	.011	
3.0	.163	.114	.076	.139	.099	.066	.096	.068	.046	.055	.040	.027	.018	.013	.009	
4.0	.155	.101	.060	.133	.087	.052	.091	.061	.036	.053	.036	.022	.017	.012	.007	
5.0	.147	.090	.048	.127	.078	.042	.087	.055	.030	.050	.032	.018	.016	.010	.006	
6.0	.140	.082	.040	.121	.071	.035	.083	.050	.025	.048	.029	.015	.016	.010	.005	
7.0	.133	.075	.034	.115	.065	.030	.079	.046	.021	.046	.027	.012	.015	.009	.004	
8.0	.127	.069	.029	.109	.060	.026	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.121	.064	.026	.104	.056	.022	.072	.039	.016	.042	.023	.009	.014	.008	.003	
10.0	.116	.060	.023	.100	.052	.020	.069	.037	.014	.040	.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:2024-07-23

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=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.36V I:0.2532A P:30.422W PF:0.9983 Freq:59.98Hz										
Lamp Flux:3852.34x1 lm										
NAME: L7422-30W-AOK-REKW-SL										
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	15.8	17.2	16.0	17.4	17.6	17.8	19.2	18.0	19.4	19.6
3H	16.6	17.9	16.9	18.2	18.4	19.4	20.8	19.7	21.0	21.2
4H	16.8	18.1	17.1	18.4	18.6	20.2	21.5	20.5	21.7	22.0
6H	17.0	18.2	17.3	18.5	18.7	20.8	22.0	21.1	22.3	22.6
8H	17.0	18.2	17.3	18.4	18.7	21.0	22.2	21.4	22.5	22.8
12H	17.0	18.1	17.3	18.4	18.7	21.2	22.3	21.6	22.6	22.9
4H 2H	16.6	17.9	16.9	18.1	18.4	18.1	19.4	18.5	19.7	19.9
3H	17.6	18.7	17.9	19.0	19.3	20.0	21.2	20.4	21.5	21.8
4H	17.9	19.0	18.3	19.3	19.6	20.9	22.0	21.3	22.3	22.6
6H	18.2	19.1	18.6	19.4	19.8	21.7	22.7	22.1	23.0	23.4
8H	18.2	19.1	18.6	19.4	19.8	22.1	22.9	22.5	23.3	23.7
12H	18.2	19.0	18.6	19.4	19.8	22.3	23.1	22.8	23.5	23.9
8H 4H	18.5	19.3	18.9	19.7	20.1	21.1	22.0	21.5	22.3	22.7
6H	18.9	19.6	19.3	20.0	20.4	22.1	22.8	22.5	23.2	23.6
8H	19.0	19.6	19.4	20.0	20.5	22.5	23.2	23.0	23.6	24.0
12H	19.0	19.5	19.5	20.0	20.5	22.9	23.5	23.4	23.9	24.4
12H 4H	18.6	19.3	19.0	19.7	20.1	21.1	21.9	21.5	22.3	22.7
6H	19.0	19.7	19.5	20.1	20.5	22.1	22.7	22.6	23.2	23.6
8H	19.2	19.8	19.7	20.2	20.7	22.6	23.2	23.1	23.6	24.1
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.3 / - 0.3					+ 0.1 / - 0.2				
1.5H	+ 0.1 / - 0.2					+ 0.2 / - 0.3				
2.0H	+ 0.3 / - 0.6					+ 0.2 / - 0.3				

CIE Pub.117, 3852 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 4.7)
Area: 0.0866 m2

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-07-23

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=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.36V I:0.2532A P:30.422W PF:0.9983 Freq:59.98Hz		
Lamp Flux:3852.34x1 lm		
NAME: L7422-30W-AOK-RFKW-SL		
MFR.: EVERFINE		

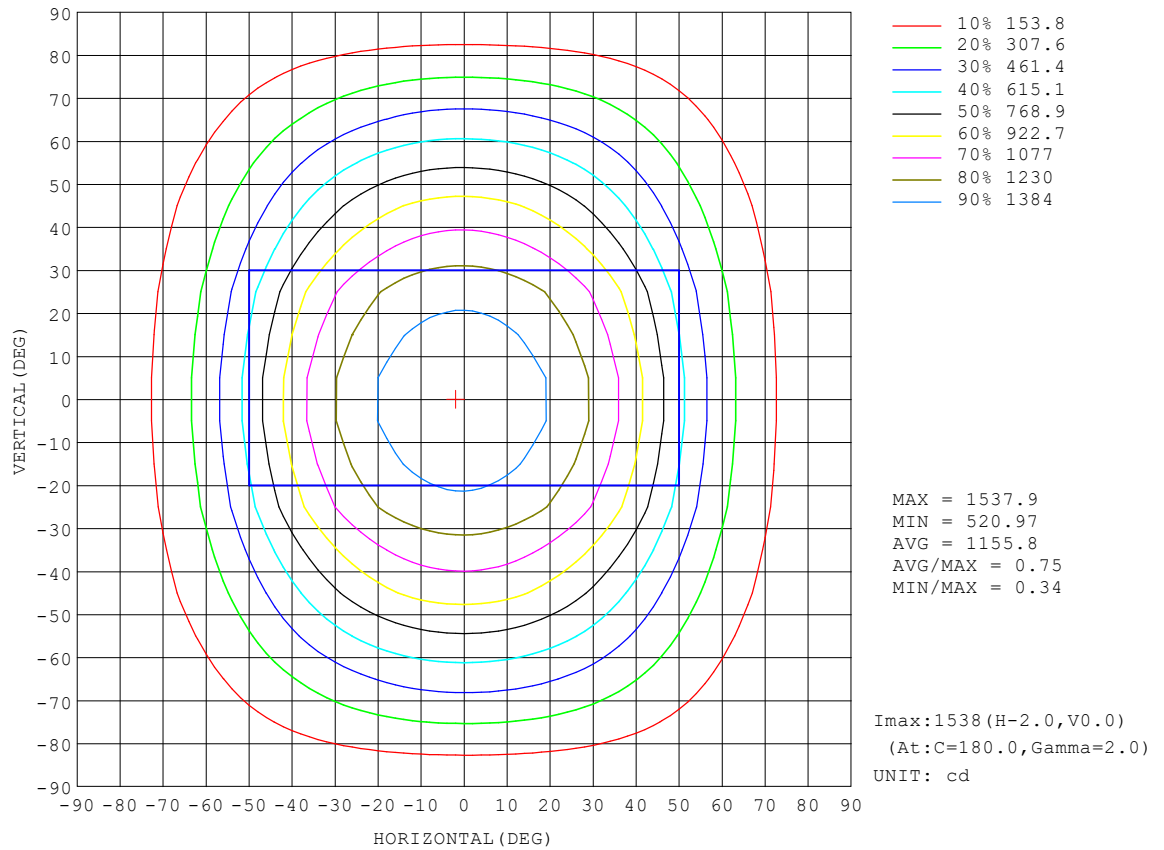
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	60	49	42	59	48	42	58	48	42	35
0.80	70	59	52	69	58	51	67	57	51	44
1.00	78	67	60	77	67	60	75	68	60	53
1.25	85	75	68	84	74	68	81	73	67	60
1.50	90	80	74	88	79	73	85	78	72	65
2.00	96	88	82	94	87	81	91	85	80	72
2.50	100	93	87	98	91	86	94	89	84	76
3.00	103	97	91	101	95	90	97	92	88	80
4.00	107	101	97	105	100	96	100	96	93	84
5.00	109	105	101	107	103	99	102	99	96	87
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:2024-07-23

$V(B)$ 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=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.36V I:0.2532A P:30.422W PF:0.9983 Freq:59.98Hz		
Lamp Flux:3852.34x1 lm		
NAME: L7422-30W-AOK-RFKW-SL		
MFR.: EVERFINE		

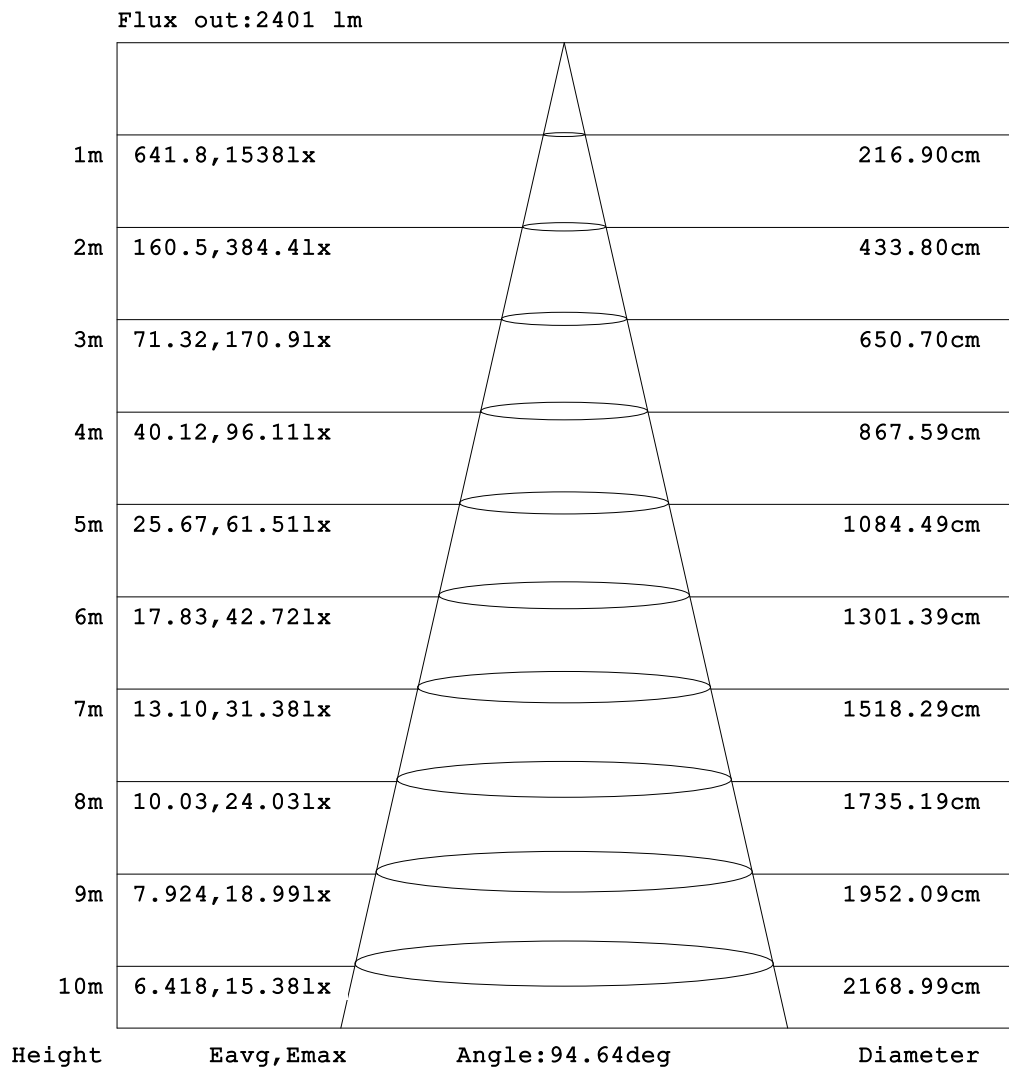


H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-07-23

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=1.0000]
Remarks:

AAI Figure

Test:U:120.36V I:0.2532A P:30.422W PF:0.9983 Freq:59.98Hz Lamp Flux:3852.34x1 lm		
NAME: L7422-30W-AOK-REKW-SL		
MFR.: EVERFINE		



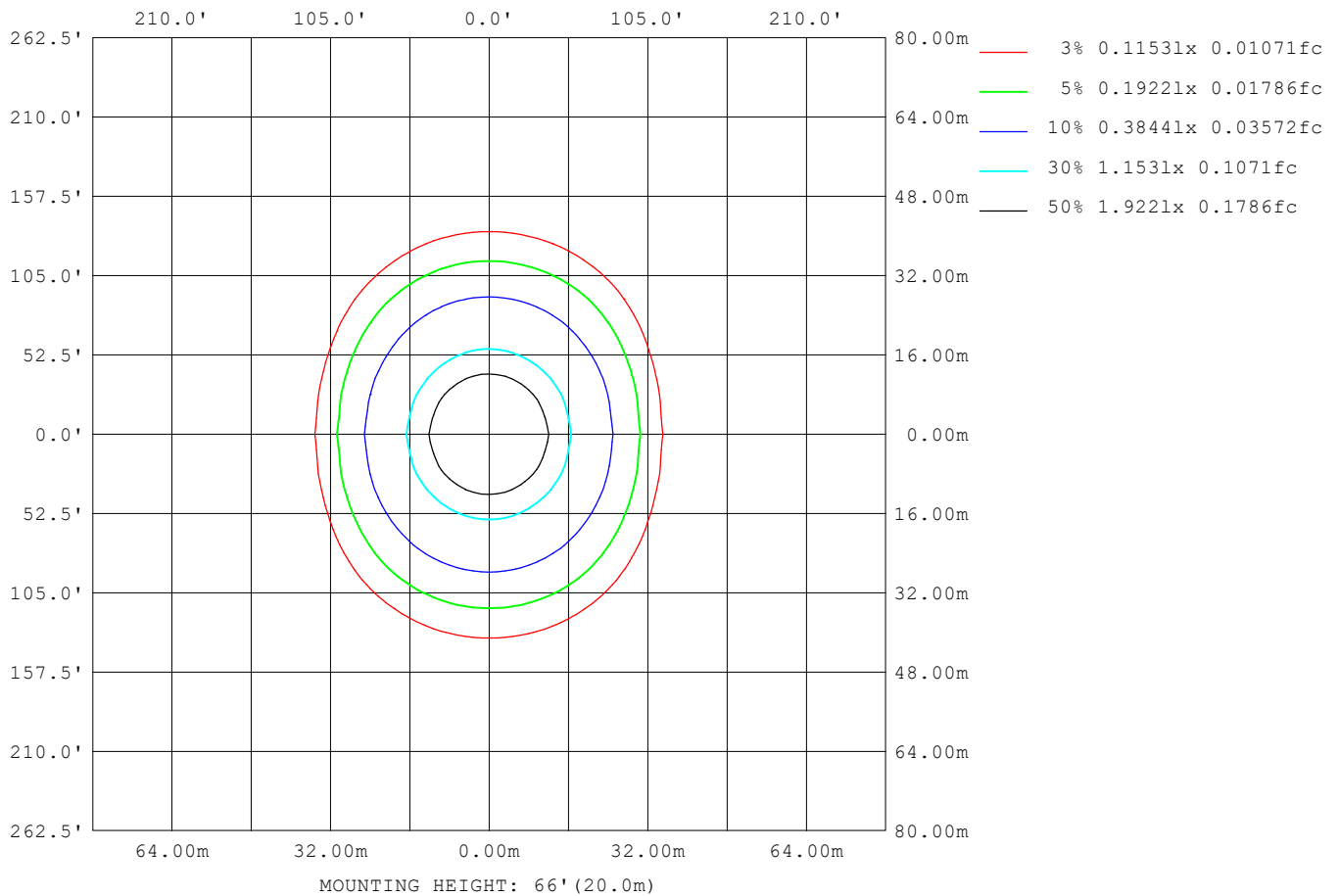
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-07-23

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=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:120.36V I:0.2532A P:30.422W PF:0.9983 Freq:59.98Hz Lamp Flux:3852.34x1 lm		
NAME: L7422-30W-AOK-RFKW-SL		
MFR.: EVERFINE		



H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-07-23

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=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.36V I:0.2532A P:30.422W PF:0.9983 Freq:59.98Hz		
Lamp Flux:3852.34x1 lm		
NAME: L7422-30W-AOK-REKW-SL		
MFR.: EVERFINE		

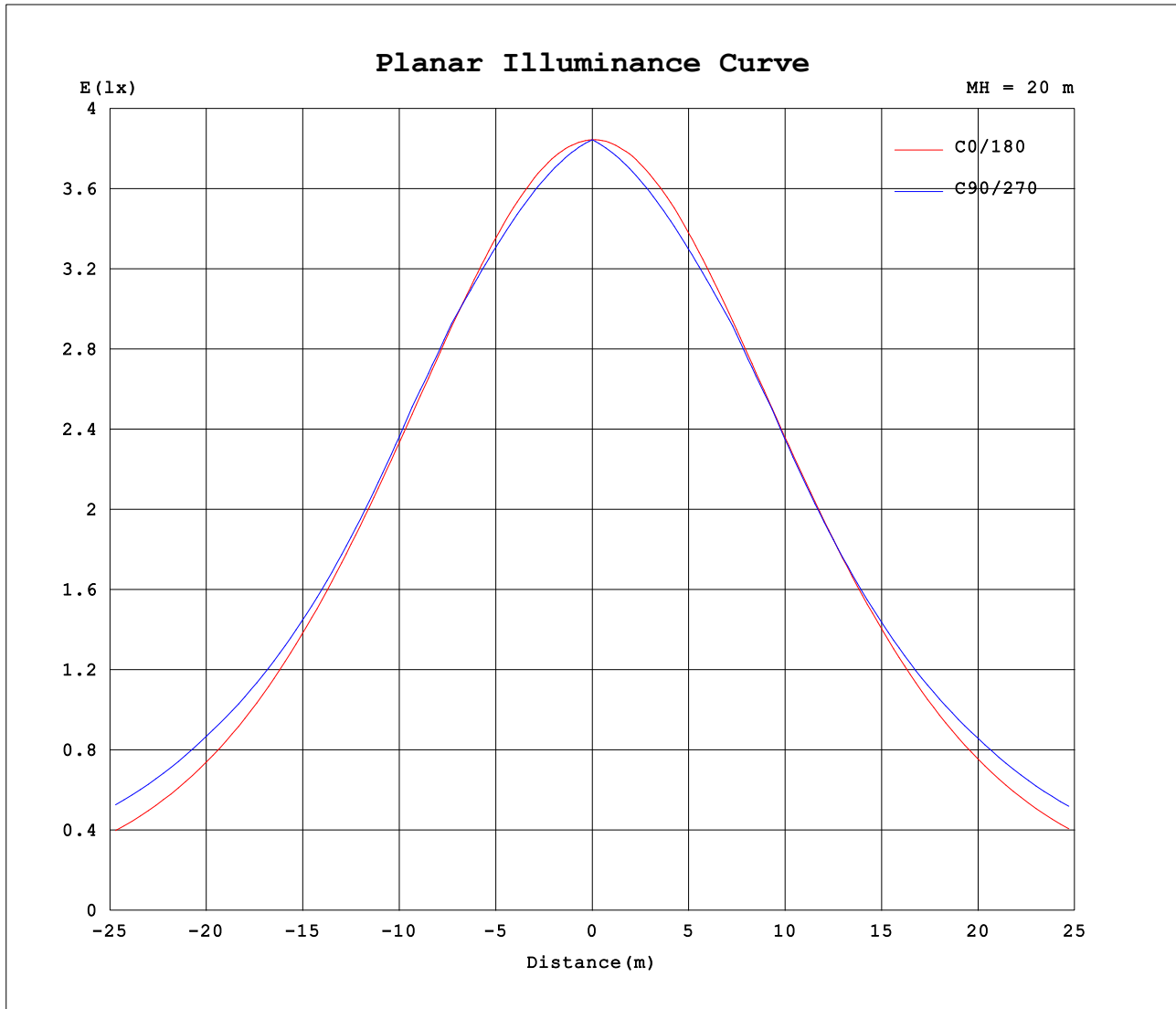
AvgL	cd/m2
L_0~180 (65) av	7701
L_0~180 (75) av	5568
L_0~180 (85) av	2326
L_90~270 (65) av	14240
L_90~270 (75) av	13821
L_90~270 (85) av	13791
L_45 (65) av	11397
L_45 (75) av	10004
L_45 (85) av	9594

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:2024-07-23

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=1.0000]
Remarks:

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-07-23

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=1.0000]
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=1.0000]
Remarks:

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