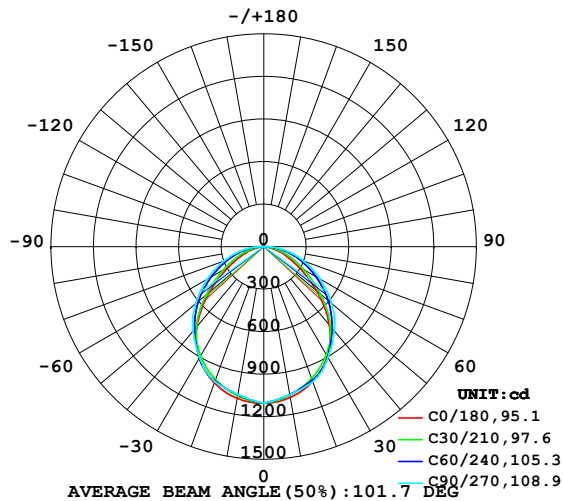


LUMINAIRE PHOTOMETRIC TEST REPORT

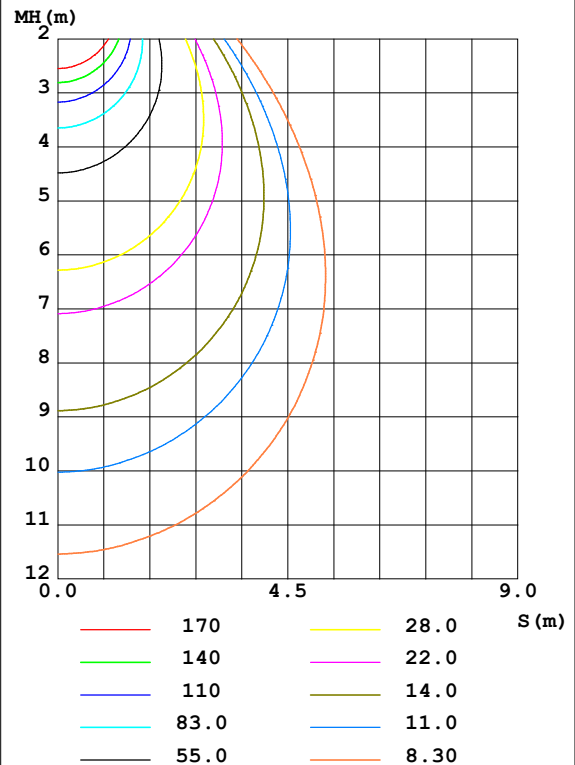
Test:U:120.39V I:0.1692A P:20.303W PF:0.9966 Freq:59.98Hz Lamp Flux:2788.02x1 lm		
NAME: L7422-30W-AOK-RFKW-SL		
MFR.: EVERFINE		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 137.32 lm/W			
MODEL		I _{max} (cd)	1105	S/MH(C0/180)	1.22
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	1.22
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	2788.0	η UP,DN(C0-180)	0.0,49.8
NOMINAL FLUX(lm)	2788.02	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: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:

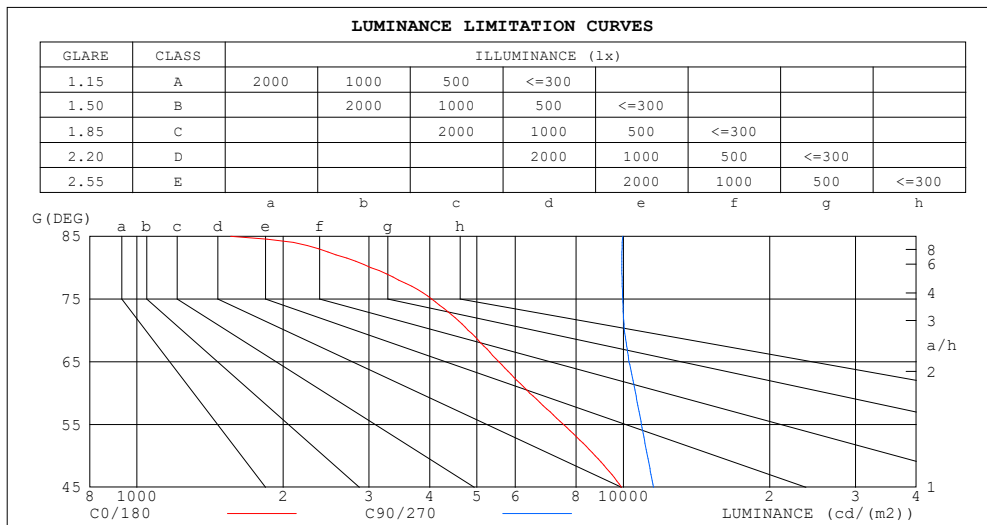
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1080	1060	1060	1064	1085	1063	1060	1059	0- 10	103.1	103.1	3.7,3.7
20	1012	993.1	1014	1001	1022	1001	1014	992.9	10- 20	292.7	395.8	14.2,14.2
30	895.6	896.7	904.3	905.2	909.1	905.5	905.3	897.3	20- 30	440.4	836.1	30,30
40	719.1	737.3	772.6	745.9	734.0	747.0	775.9	740.5	30- 40	514.9	1351	48.5,48.5
50	487.2	556.7	624.1	564.0	500.6	565.6	628.3	562.3	40- 50	504.3	1855	66.5,66.5
60	278.1	380.7	458.7	382.6	285.1	385.5	462.7	387.4	50- 60	416.2	2272	81.5,81.5
70	142.2	227.9	297.6	223.3	143.8	228.0	300.9	235.0	60- 70	293.2	2565	92,92
80	45.50	106.1	149.4	101.9	45.71	105.1	150.8	110.6	70- 80	169.2	2734	98.1,98.1
90	0.3406	0.9971	1.155	0.9388	0.3489	0.6480	0.7423	1.160	80- 90	54.00	2788	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		

$H(\beta)$ 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:

LUMINANCE LIMITATION CURVES

Test:U:120.39V I:0.1692A P:20.303W PF:0.9966 Freq:59.98Hz Lamp Flux:2788.02x1 lm		
NAME: L7422-30W-AOK-REKW-SL		
MFR.: EVERFINE		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1559	9973
80	3026	9935
75	4038	9972
70	4799	10049
65	5549	10275
60	6422	10594
55	7535	10899
50	8752	11211
45	9909	11541

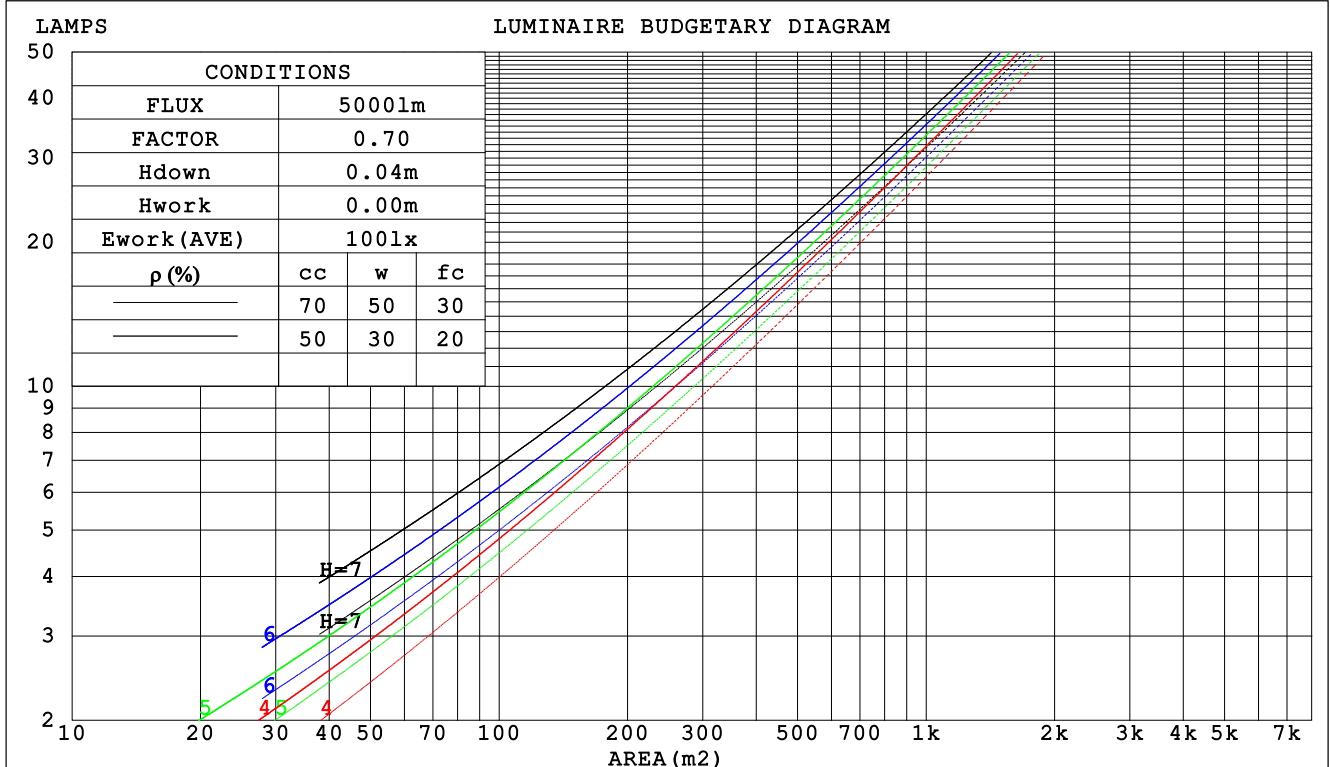
H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-07-23

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:120.39V I:0.1692A P:20.303W PF:0.9966 Freq:59.98Hz		
Lamp Flux:2788.02x1 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	.78	.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	.60
4.0	.72	.63	.57	.71	.63	.56	.68	.61	.56	.66	.60	.55	.64	.58	.54	.52
5.0	.65	.56	.49	.63	.55	.49	.61	.54	.48	.59	.53	.48	.58	.52	.47	.45
6.0	.58	.50	.43	.57	.49	.43	.56	.48	.43	.54	.47	.42	.52	.46	.42	.40
7.0	.53	.44	.38	.52	.44	.38	.51	.43	.38	.49	.43	.38	.48	.42	.37	.35
8.0	.48	.40	.34	.48	.40	.34	.46	.39	.34	.45	.39	.34	.44	.38	.34	.32
9.0	.45	.36	.31	.44	.36	.31	.43	.36	.31	.42	.35	.31	.41	.35	.30	.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:120.39V I:0.1692A P:20.303W PF:0.9966 Freq:59.98Hz											
Lamp Flux:2788.02x1 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	.160	.051	.266	.153	.049	.255	.148	.048	
2.0	.281	.154	.047	.275	.151	.047	.263	.146	.045	.252	.142	.044	.242	.137	.043	
3.0	.260	.139	.042	.255	.137	.041	.245	.133	.040	.235	.129	.040	.226	.125	.039	
4.0	.241	.125	.037	.236	.124	.037	.227	.120	.036	.219	.117	.035	.211	.115	.035	
5.0	.223	.114	.033	.219	.113	.033	.211	.110	.032	.204	.107	.032	.197	.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	.173	.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	.163	.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	.180	.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	.051	.032	.018	.016	.010	.006	
6.0	.140	.082	.040	.121	.071	.035	.083	.050	.025	.048	.029	.015	.016	.010	.005	
7.0	.134	.075	.034	.115	.065	.030	.079	.046	.021	.046	.027	.012	.015	.009	.004	
8.0	.127	.069	.029	.110	.060	.025	.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:120.39V I:0.1692A P:20.303W PF:0.9966 Freq:59.98Hz										
Lamp Flux:2788.02x1 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	15.7	17.2	16.0	17.4	17.6	17.7	19.1	17.9	19.3	19.5
3H	16.5	17.9	16.8	18.1	18.4	19.3	20.7	19.6	20.9	21.1
4H	16.8	18.1	17.1	18.3	18.6	20.0	21.3	20.4	21.6	21.8
6H	16.9	18.1	17.3	18.4	18.7	20.7	21.9	21.0	22.2	22.4
8H	16.9	18.1	17.3	18.4	18.7	20.9	22.1	21.2	22.4	22.7
12H	16.9	18.0	17.3	18.3	18.6	21.1	22.2	21.4	22.5	22.8
4H 2H	16.5	17.8	16.8	18.1	18.3	18.0	19.3	18.4	19.6	19.8
3H	17.5	18.6	17.9	18.9	19.2	19.9	21.0	20.3	21.3	21.6
4H	17.9	18.9	18.2	19.2	19.6	20.8	21.9	21.2	22.2	22.5
6H	18.1	19.0	18.5	19.4	19.7	21.6	22.5	22.0	22.9	23.2
8H	18.1	19.0	18.5	19.4	19.7	21.9	22.8	22.4	23.2	23.5
12H	18.1	18.9	18.6	19.3	19.7	22.2	23.0	22.6	23.4	23.8
8H 4H	18.4	19.2	18.8	19.6	20.0	21.0	21.8	21.4	22.2	22.6
6H	18.8	19.5	19.2	19.9	20.3	21.9	22.7	22.4	23.1	23.5
8H	18.9	19.5	19.3	19.9	20.4	22.4	23.0	22.9	23.4	23.9
12H	18.9	19.4	19.4	19.9	20.4	22.8	23.3	23.2	23.8	24.2
12H 4H	18.5	19.3	18.9	19.6	20.0	20.9	21.7	21.4	22.1	22.5
6H	18.9	19.6	19.4	20.0	20.4	22.0	22.6	22.4	23.0	23.5
8H	19.1	19.6	19.6	20.1	20.6	22.5	23.0	22.9	23.5	23.9
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, 2788 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.6)
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:120.39V I:0.1692A P:20.303W PF:0.9966 Freq:59.98Hz		
Lamp Flux:2788.02x1 lm		
NAME: L7422-30W-AOK-REKW-SL		
MFR.: EVERFINE		

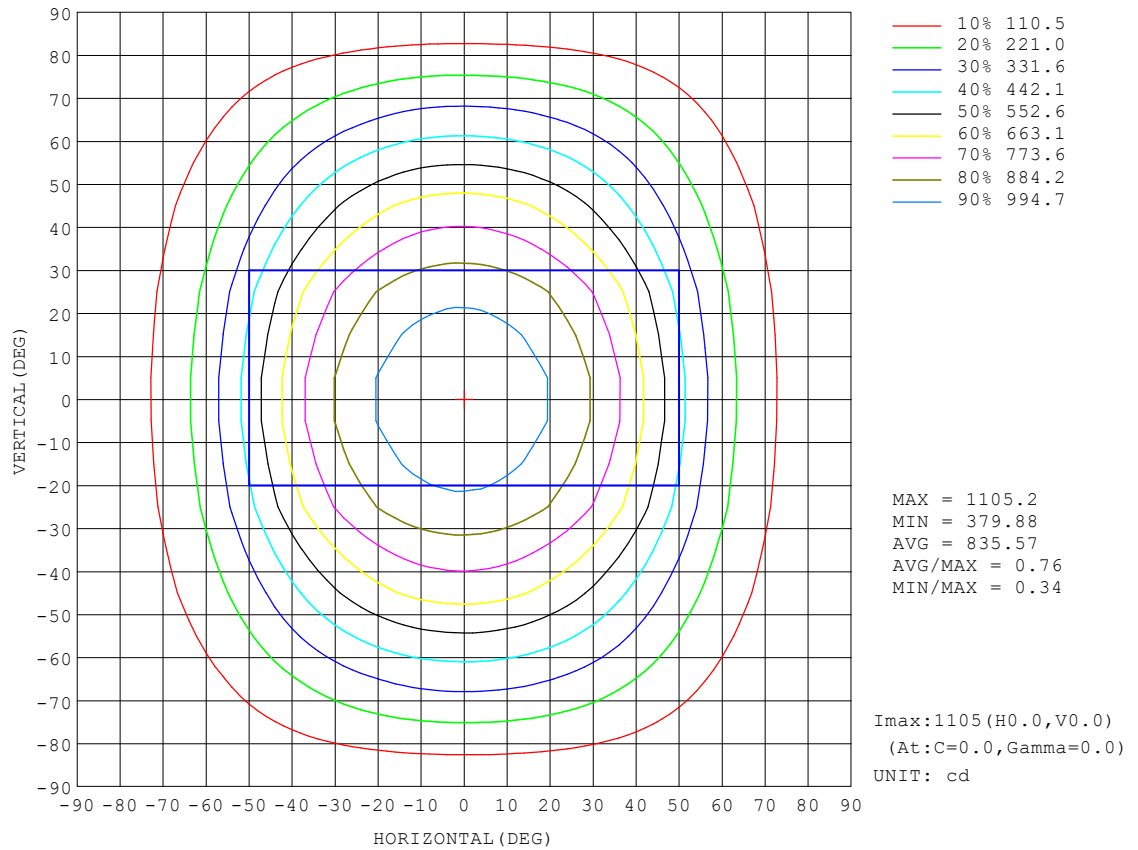
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	60	48	42	59	48	42	58	48	41	35
0.80	70	59	51	69	58	51	67	57	51	44
1.00	78	67	60	77	67	60	75	68	60	53
1.25	85	75	68	83	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	92	87	98	91	86	94	88	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	104	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:120.39V I:0.1692A P:20.303W PF:0.9966 Freq:59.98Hz Lamp Flux:2788.02x1 lm		
NAME: L7422-30W-AOK-RFKW-SL		
MFR.: EVERFINE		

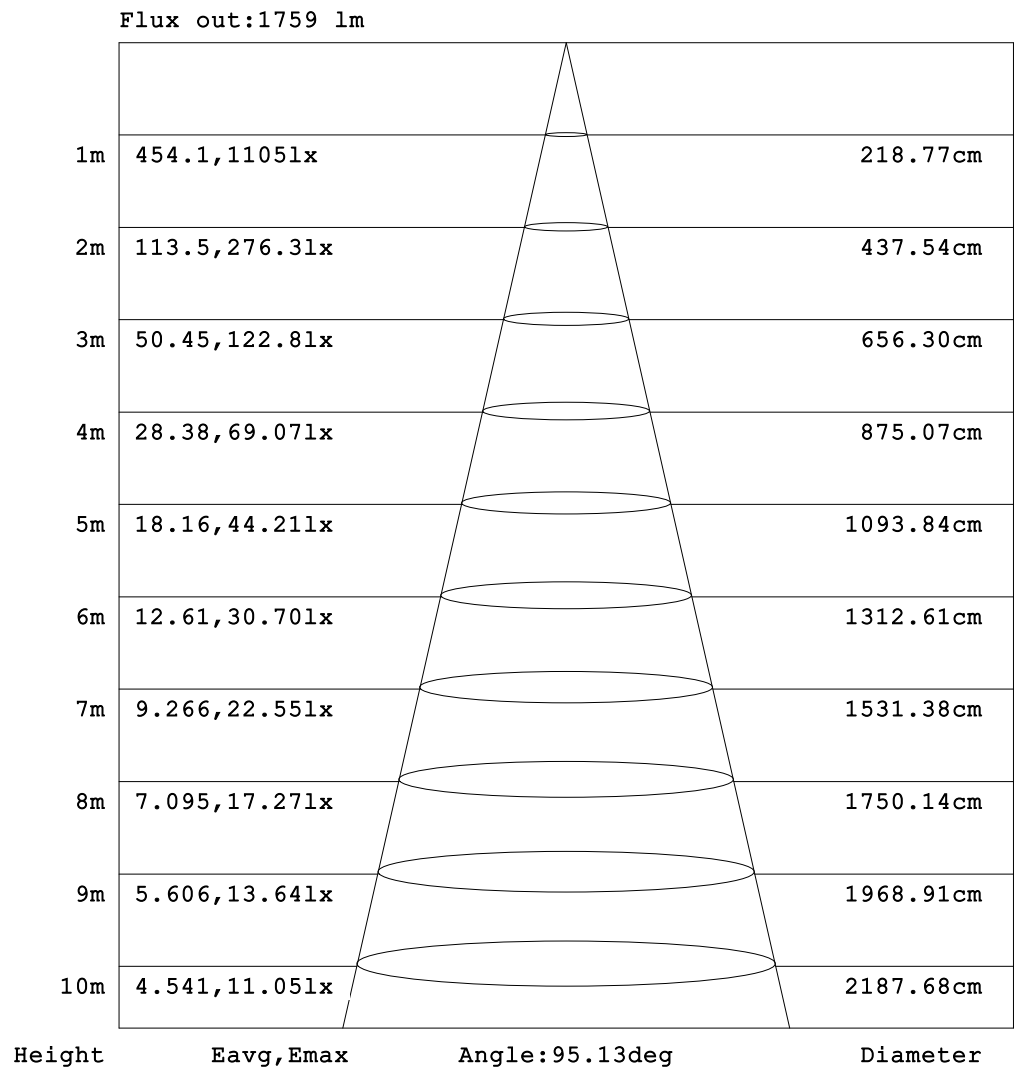


H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-07-23

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:120.39V I:0.1692A P:20.303W PF:0.9966 Freq:59.98Hz Lamp Flux:2788.02x1 lm		
NAME: L7422-30W-AOK-REKW-SL		
MFR.: EVERFINE		



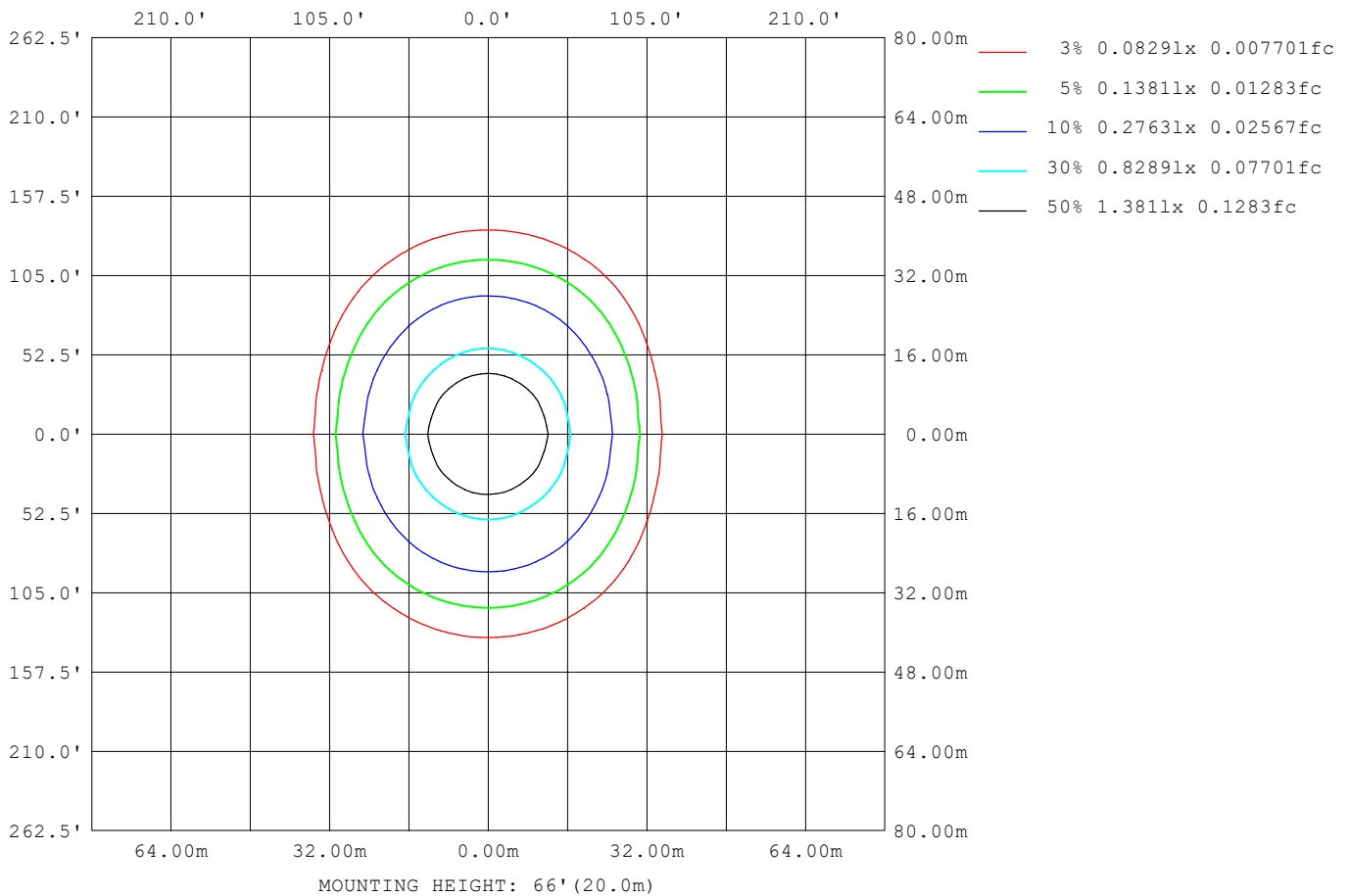
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.39V I:0.1692A P:20.303W PF:0.9966 Freq:59.98Hz Lamp Flux:2788.02x1 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:120.39V I:0.1692A P:20.303W PF:0.9966 Freq:59.98Hz		
Lamp Flux:2788.02x1 lm		
NAME: L7422-30W-AOK-REKW-SL		
MFR.: EVERFINE		

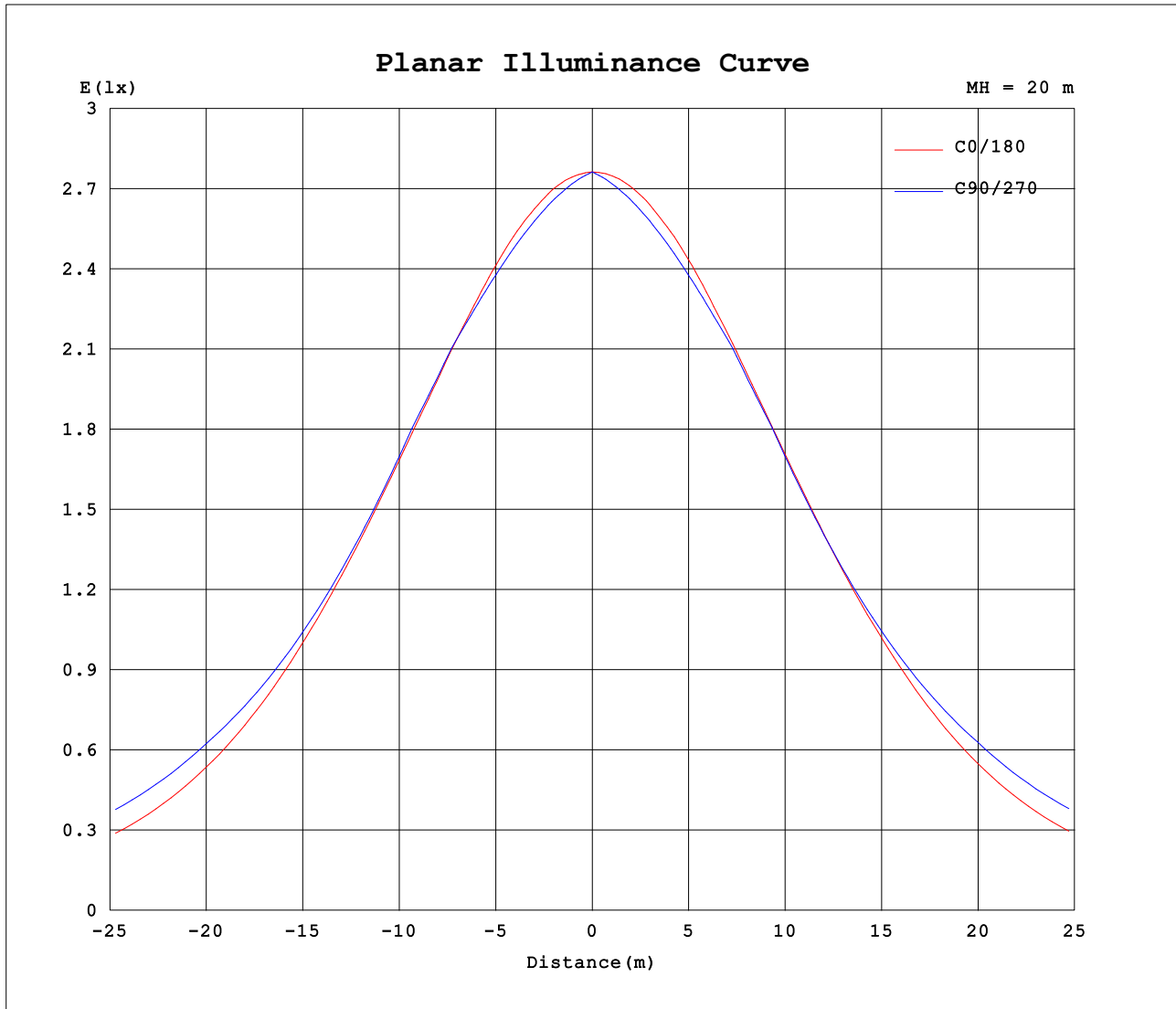
AvgL	cd/m2
L_0~180 (65) av	5600
L_0~180 (75) av	4051
L_0~180 (85) av	1686
L_90~270 (65) av	10327
L_90~270 (75) av	10025
L_90~270 (85) av	10007
L_45 (65) av	8275
L_45 (75) av	7264
L_45 (85) av	6968

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:

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
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V(B) Range:-90 - 90DEG
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V(B) Range:-90 - 90DEG
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Remarks: