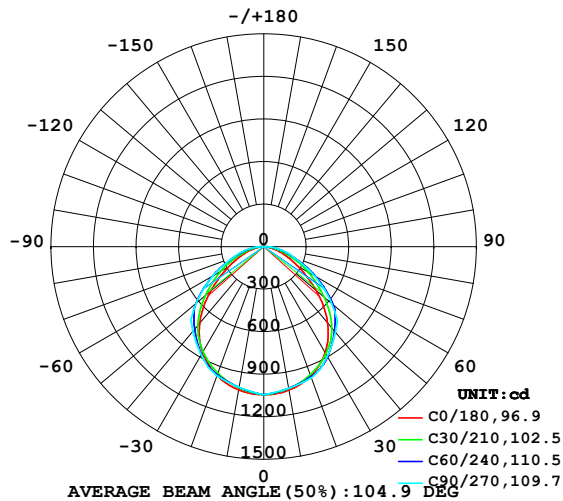


LUMINAIRE PHOTOMETRIC TEST REPORT

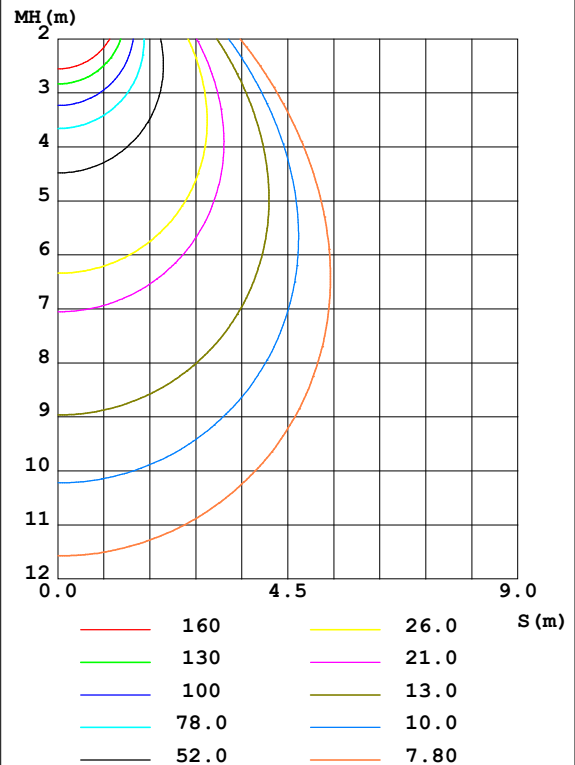
Test:U:120.40V I:0.1693A P:20.303W PF:0.9960 Freq:59.98Hz Lamp Flux:2724.97x1 lm		
NAME: L7414-30W-AOK-RFKW-SL		
MFR.: EVERFINE		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 134.21 lm/W			
MODEL		I _{max} (cd)	1045	S/MH(C0/180)	1.23
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	2725.0	η UP,DN(C0-180)	0.0,50.3
NOMINAL FLUX(lm)	2724.97	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.7
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: 2024-08-09

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=0.9841]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

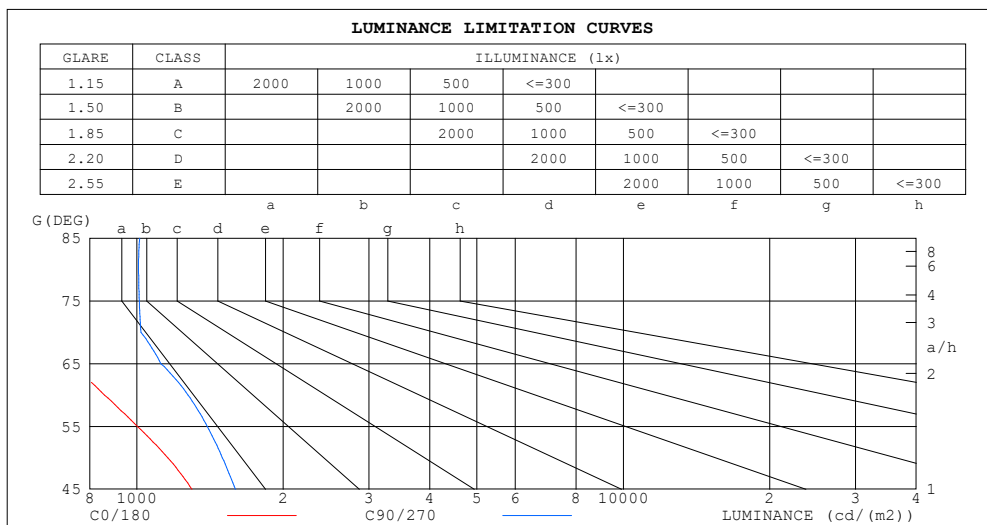
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1027	1015	1014	1014	1025	1009	1007	1010	0- 10	97.94	97.94	3.59,3.59
20	969.7	967.8	984.2	963.7	966.2	953.8	969.5	956.8	10- 20	280.1	378.0	13.9,13.9
30	865.5	894.6	895.5	886.0	862.3	872.9	882.0	877.1	20- 30	426.4	804.5	29.5,29.5
40	701.1	762.4	787.2	751.1	703.6	740.5	777.9	742.6	30- 40	508.7	1313	48.2,48.2
50	484.1	606.3	626.8	595.1	491.6	586.3	622.4	584.2	40- 50	513.1	1826	67,67
60	279.0	415.7	414.3	407.8	287.4	401.9	415.4	396.5	50- 60	424.1	2250	82.6,82.6
70	139.7	222.2	226.7	218.5	147.9	216.6	231.3	209.6	60- 70	280.3	2531	92.9,92.9
80	41.55	95.42	113.8	93.73	50.33	93.05	116.0	88.64	70- 80	148.1	2679	98.3,98.3
90	0.4640	0.8503	0.9898	0.9522	0.5203	0.7255	0.7269	0.6719	80- 90	46.19	2725	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:2024-08-09

$V(B)$ 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=0.9841]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.40V I:0.1693A P:20.303W PF:0.9960 Freq:59.98Hz Lamp Flux:2724.97x1 lm		
NAME: L7414-30W-AOK-REKW-SL		
MFR.: EVERFINE		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	137	1013
80	368	1009
75	516	1012
70	628	1020
65	737	1121
60	858	1275
55	1004	1396
50	1159	1500
45	1297	1595

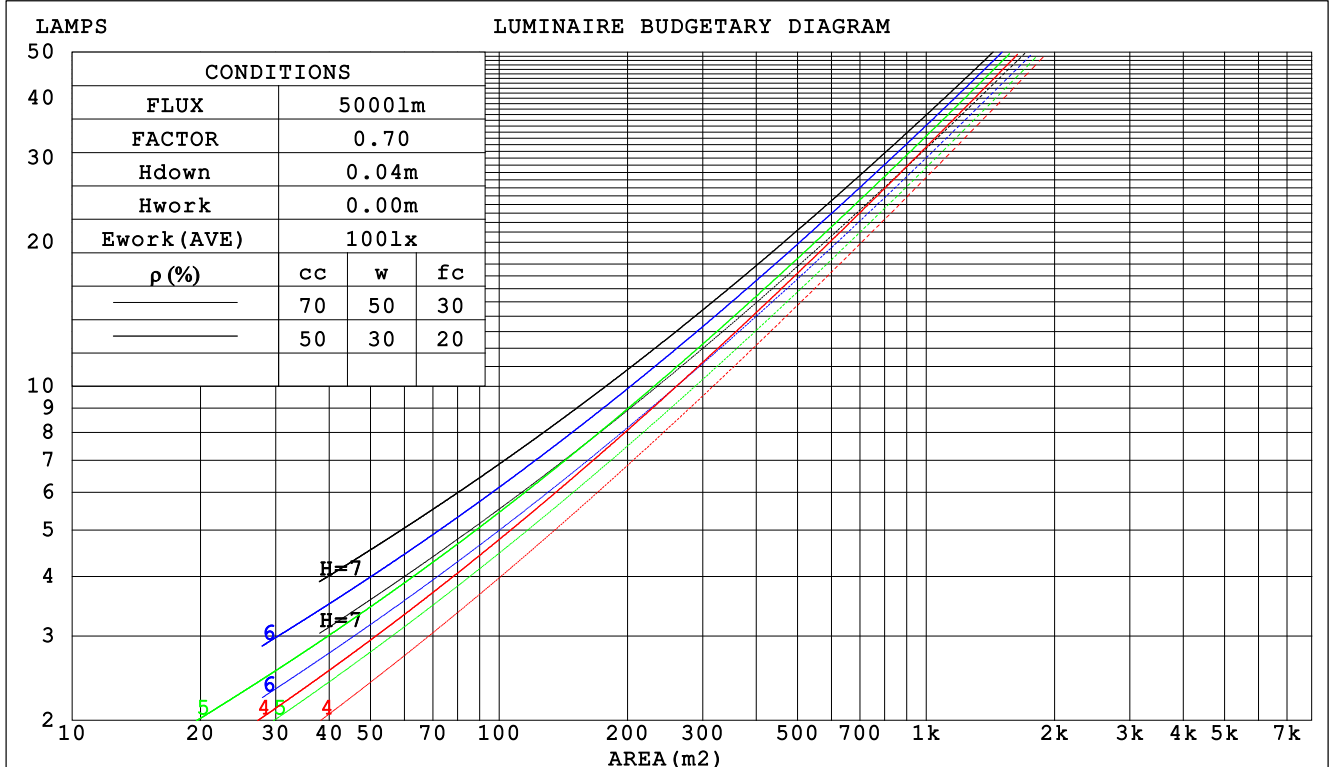
H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-09

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=0.9841]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.40V I:0.1693A P:20.303W PF:0.9960 Freq:59.98Hz		
Lamp Flux:2724.97x1 lm		
NAME: L7414-30W-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	1.05	1.01	.97	1.02	.99	.95	.98	.95	.92	.94	.92	.90	.91	.89	.87	.85
2.0	.92	.85	.80	.90	.84	.79	.86	.81	.77	.83	.79	.75	.80	.77	.74	.72
3.0	.81	.73	.67	.80	.72	.66	.77	.70	.65	.74	.69	.64	.71	.67	.63	.61
4.0	.72	.64	.57	.71	.63	.57	.68	.61	.56	.66	.60	.55	.64	.59	.54	.52
5.0	.65	.56	.49	.64	.55	.49	.61	.54	.49	.59	.53	.48	.58	.52	.48	.46
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	.35
8.0	.48	.40	.34	.48	.40	.34	.46	.39	.34	.45	.39	.34	.44	.38	.34	.32
9.0	.44	.36	.31	.44	.36	.31	.43	.36	.31	.42	.35	.30	.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:2024-08-09

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=0.9841]
Remarks:

WEC AND CCEC

Test:U:120.40V I:0.1693A P:20.303W PF:0.9960 Freq:59.98Hz		
Lamp Flux:2724.97x1 lm		
NAME: L7414-30W-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	.294	.167	.053	.287	.163	.052	.273	.157	.050	.261	.151	.048	.250	.145	.047		
2.0	.278	.152	.047	.272	.150	.046	.260	.145	.045	.249	.140	.044	.239	.135	.043		
3.0	.259	.138	.041	.253	.136	.041	.243	.132	.040	.234	.128	.039	.225	.124	.039		
4.0	.240	.125	.037	.235	.123	.036	.226	.120	.036	.218	.117	.035	.210	.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	.191	.095	.027	.184	.093	.027	.178	.091	.027	.173	.090	.026		
8.0	.182	.089	.025	.179	.088	.025	.173	.086	.025	.167	.085	.024	.162	.083	.024		
9.0	.171	.083	.023	.168	.082	.023	.163	.080	.023	.158	.079	.023	.153	.078	.023		
10.0	.161	.077	.021	.158	.076	.021	.154	.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	.136	.153	.134	.117	.105	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.170	.132	.100	.146	.114	.086	.100	.079	.060	.058	.046	.035	.019	.015	.011	
3.0	.162	.114	.076	.139	.099	.066	.096	.068	.046	.055	.040	.027	.018	.013	.009	
4.0	.155	.101	.060	.133	.087	.052	.091	.061	.037	.053	.036	.022	.017	.012	.007	
5.0	.147	.090	.048	.126	.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	.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	.105	.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:2024-08-09

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=0.9841]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.40V I:0.1693A P:20.303W PF:0.9960 Freq:59.98Hz										
Lamp Flux:2724.97x1 lm										
NAME: L7414-30W-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	9.3	10.7	9.5	10.9	11.1	10.7	12.2	11.0	12.4	12.6
3H	10.0	11.4	10.3	11.6	11.9	11.8	13.2	12.1	13.4	13.7
4H	10.3	11.6	10.6	11.8	12.1	12.3	13.6	12.7	13.9	14.1
6H	10.4	11.6	10.7	11.9	12.1	12.8	14.0	13.1	14.3	14.6
8H	10.4	11.6	10.7	11.8	12.1	13.0	14.2	13.3	14.4	14.7
12H	10.4	11.5	10.7	11.8	12.1	13.1	14.2	13.5	14.5	14.8
4H 2H	10.0	11.3	10.3	11.6	11.8	11.2	12.4	11.5	12.7	12.9
3H	11.0	12.2	11.4	12.4	12.7	12.5	13.6	12.8	13.9	14.2
4H	11.4	12.4	11.8	12.7	13.1	13.1	14.2	13.5	14.5	14.8
6H	11.6	12.5	12.0	12.9	13.2	13.7	14.6	14.1	15.0	15.4
8H	11.6	12.5	12.0	12.8	13.2	14.0	14.8	14.4	15.2	15.6
12H	11.6	12.4	12.0	12.8	13.2	14.2	15.0	14.6	15.4	15.8
8H 4H	11.7	12.6	12.1	12.9	13.3	13.3	14.1	13.7	14.5	14.9
6H	12.1	12.8	12.5	13.2	13.6	14.1	14.8	14.5	15.2	15.6
8H	12.2	12.8	12.7	13.2	13.7	14.4	15.1	14.9	15.5	15.9
12H	12.2	12.8	12.7	13.2	13.7	14.7	15.3	15.2	15.7	16.2
12H 4H	11.8	12.6	12.2	12.9	13.3	13.3	14.1	13.7	14.4	14.8
6H	12.2	12.8	12.7	13.3	13.7	14.1	14.7	14.6	15.2	15.6
8H	12.4	12.9	12.9	13.4	13.8	14.5	15.0	15.0	15.5	16.0
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.3 / - 0.3					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.4				
2.0H	+ 0.4 / - 0.9					+ 0.3 / - 0.3				

CIE Pub.117, 2725 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.5)
Area: 0.65 m2

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-09

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=0.9841]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.40V I:0.1693A P:20.303W PF:0.9960 Freq:59.98Hz		
Lamp Flux:2724.97x1 lm		
NAME: L7414-30W-AOK-REKW-SL		
MFR.: EVERFINE		

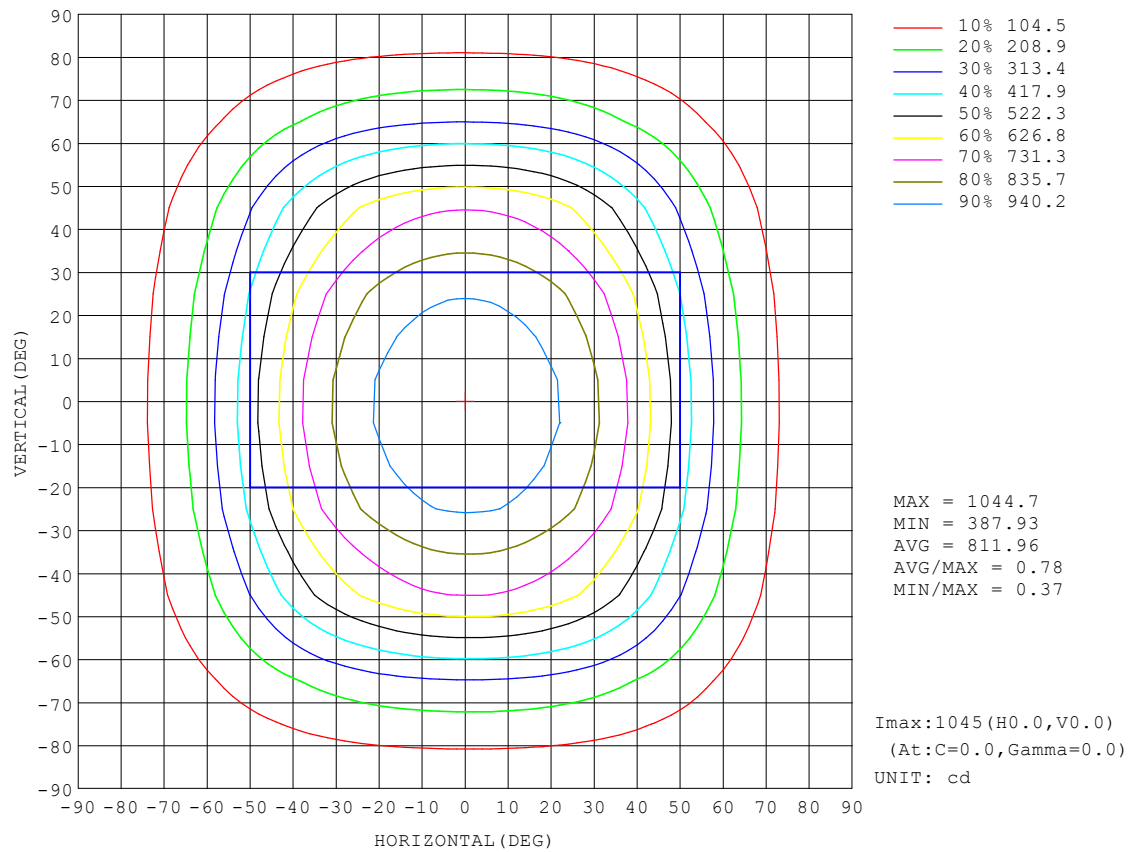
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	59	48	41	59	48	41	58	47	41	35
0.80	70	58	51	69	58	51	67	57	51	44
1.00	78	67	60	77	67	60	75	68	60	53
1.25	85	75	68	84	74	68	81	73	67	60
1.50	90	81	74	88	80	73	85	78	72	65
2.00	96	88	82	95	87	82	91	85	80	73
2.50	100	93	87	98	91	86	94	89	84	76
3.00	103	97	92	101	95	91	97	92	88	80
4.00	107	102	97	105	100	96	100	97	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:2024-08-09

$V(B)$ 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=0.9841]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.40V I:0.1693A P:20.303W PF:0.9960 Freq:59.98Hz Lamp Flux:2724.97x1 lm		
NAME: L7414-30W-AOK-RFKW-SL		
MFR.: EVERFINE		

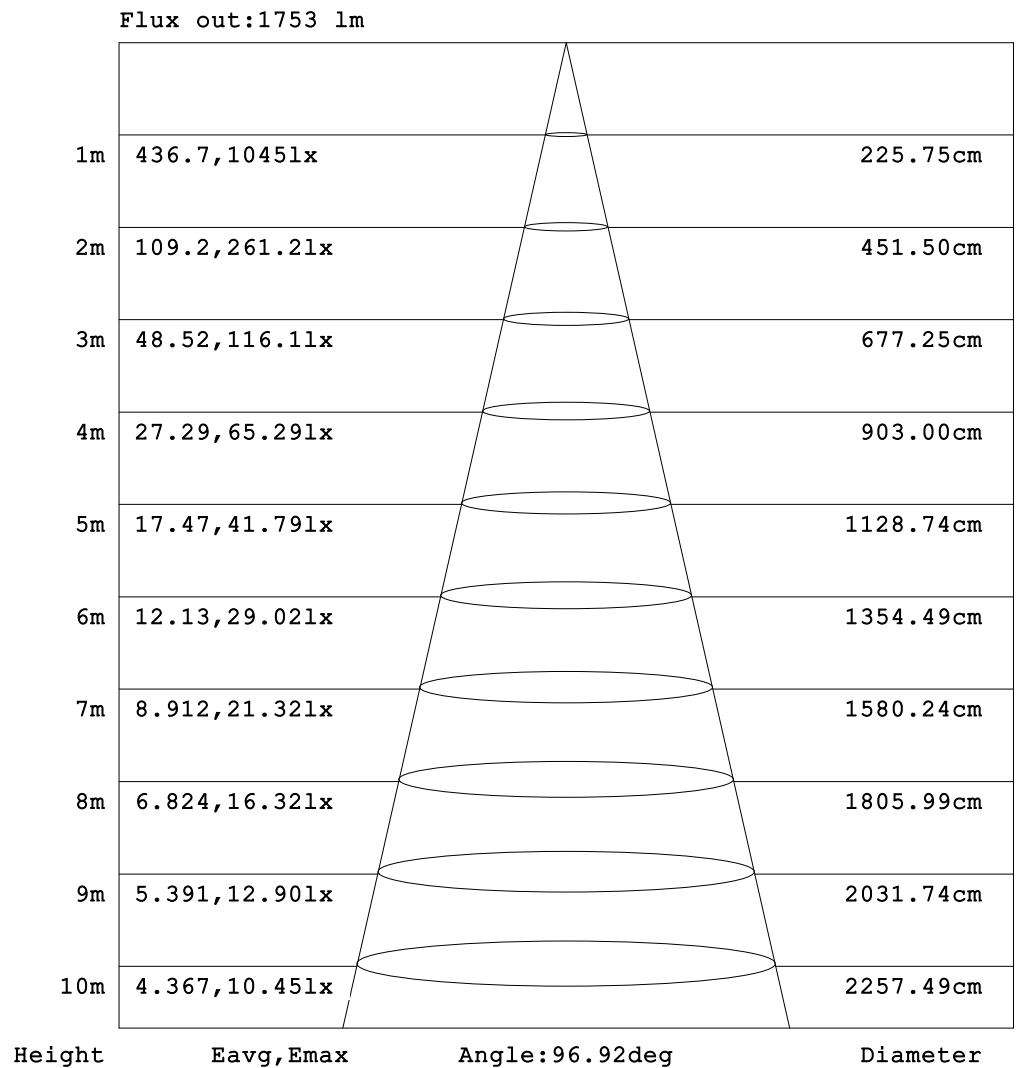


H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-09

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=0.9841]
Remarks:

AAI Figure

Test:U:120.40V I:0.1693A P:20.303W PF:0.9960 Freq:59.98Hz Lamp Flux:2724.97x1 lm		
NAME: L7414-30W-AOK-REKW-SL		
MFR.: EVERFINE		



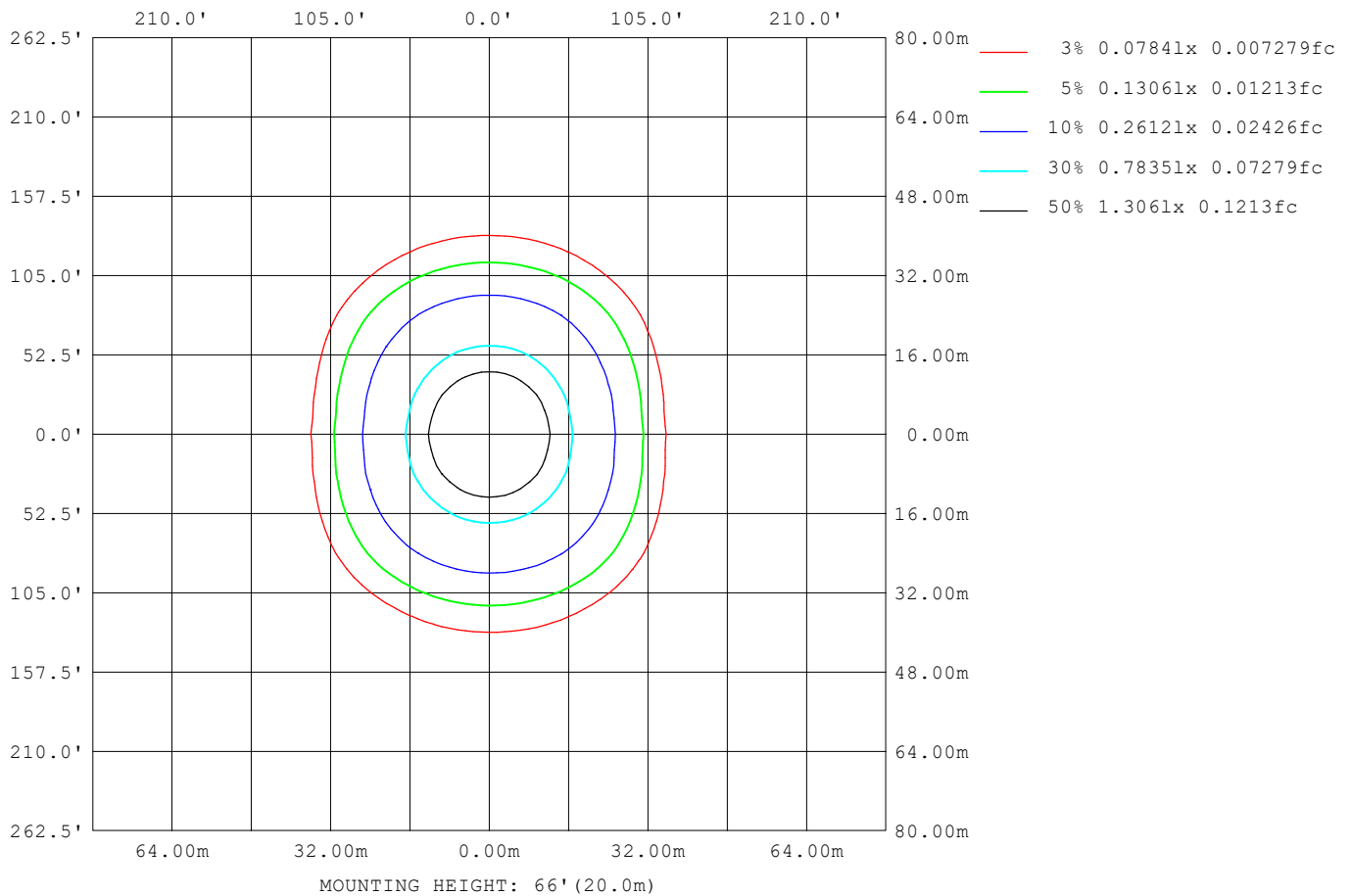
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-09

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=0.9841]
Remarks:

ISOLUX DIAGRAM

Test:U:120.40V I:0.1693A P:20.303W PF:0.9960 Freq:59.98Hz Lamp Flux:2724.97x1 lm		
NAME: L7414-30W-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:2024-08-09

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=0.9841]
Remarks:

LED Avg.L Report

Test:U:120.40V I:0.1693A P:20.303W PF:0.9960 Freq:59.98Hz Lamp Flux:2724.97x1 lm		
NAME: L7414-30W-AOK-REKW-SL		
MFR.: EVERFINE		

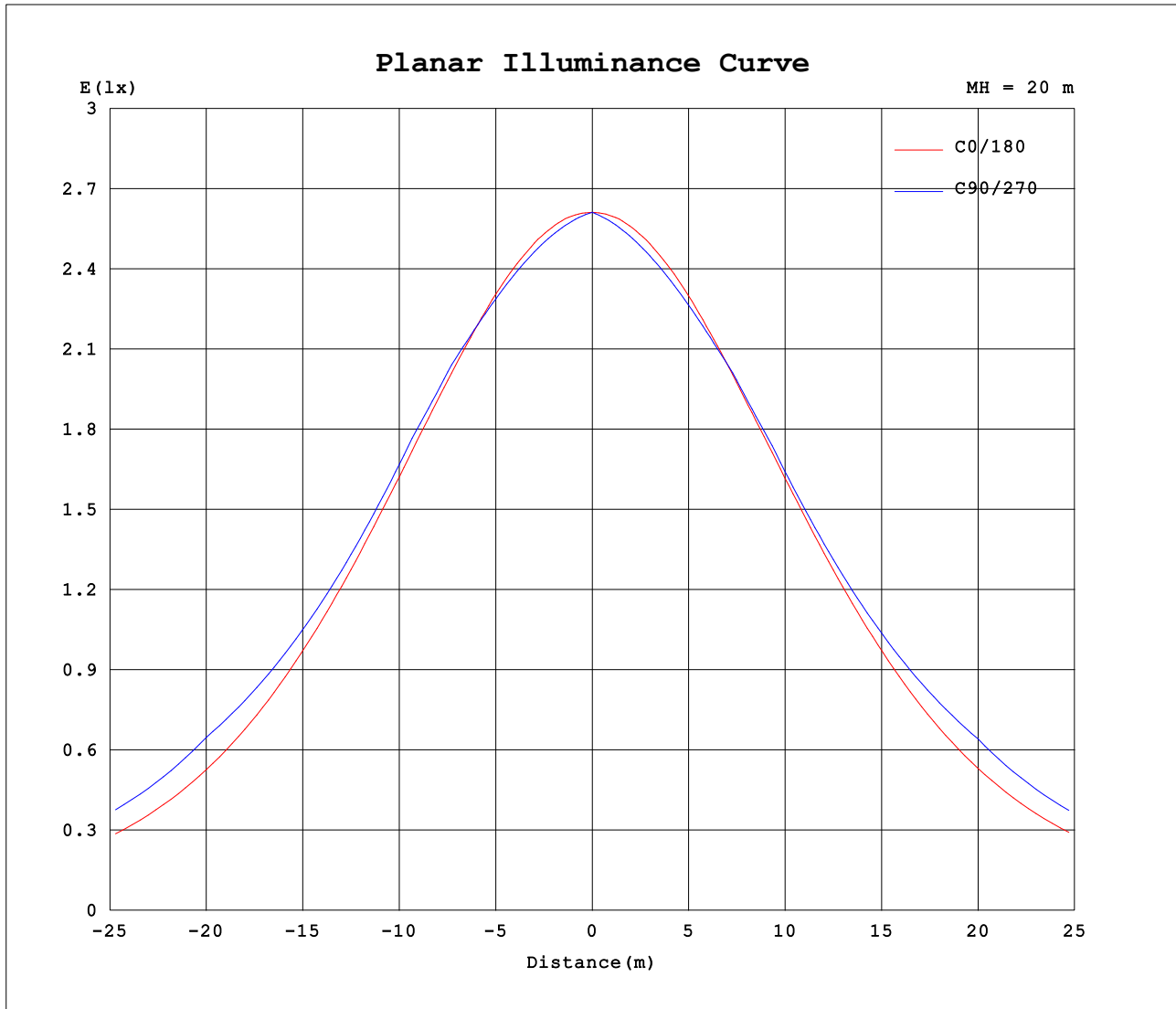
AvgL	cd/m2
L_0~180 (65) av	751
L_0~180 (75) av	542
L_0~180 (85) av	192
L_90~270 (65) av	1128
L_90~270 (75) av	1022
L_90~270 (85) av	1022
L_45 (65) av	1118
L_45 (75) av	851
L_45 (85) av	815

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:2024-08-09

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=0.9841]
Remarks:

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-09

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=0.9841]
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=0.9841]
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=0.9841]
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=0.9841]
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=0.9841]
Remarks:
```