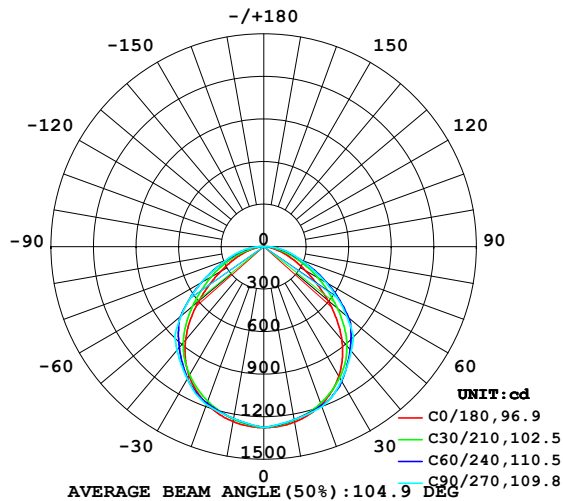


LUMINAIRE PHOTOMETRIC TEST REPORT

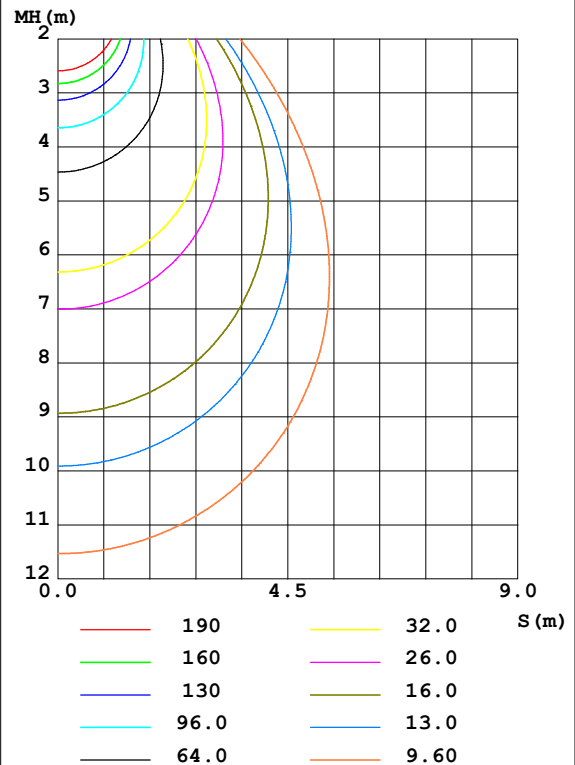
Test:U:120.39V I:0.2148A P:25.810W PF:0.9980 Freq:59.98Hz		
Lamp Flux:3328.8x1 lm		
NAME: L7414-30W-AOK-RFKW-SL		
MFR.: EVERFINE		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 128.97 lm/W			
MODEL		I _{max} (cd)	1276	S/MH(C0/180)	1.23
NOMINAL POWER(W)	25	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	3328.8	η UP,DN(C0-180)	0.0,50.3
NOMINAL FLUX(lm)	3328.8	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	1255	1240	1239	1238	1252	1232	1231	1235	0- 10	119.6	119.6	3.59,3.59
20	1187	1183	1202	1176	1179	1165	1186	1170	10- 20	342.2	461.9	13.9,13.9
30	1058	1093	1093	1082	1053	1066	1079	1072	20- 30	521.0	982.9	29.5,29.5
40	856.9	931.2	960.9	916.8	858.9	904.1	952.0	908.1	30- 40	621.5	1604	48.2,48.2
50	591.3	740.6	765.0	725.6	599.9	715.8	761.7	714.4	40- 50	626.7	2231	67,67
60	340.9	507.7	505.6	497.6	350.7	491.0	508.4	484.7	50- 60	518.0	2749	82.6,82.6
70	171.0	271.6	276.5	266.4	180.3	264.5	283.2	256.6	60- 70	342.3	3091	92.9,92.9
80	51.10	116.6	138.9	114.3	61.28	113.7	142.0	108.7	70- 80	180.9	3272	98.3,98.3
90	0.5606	1.061	1.210	1.184	0.6384	0.8663	0.8905	0.8342	80- 90	56.45	3329	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:120.39V I:0.2148A P:25.810W PF:0.9980 Freq:59.98Hz

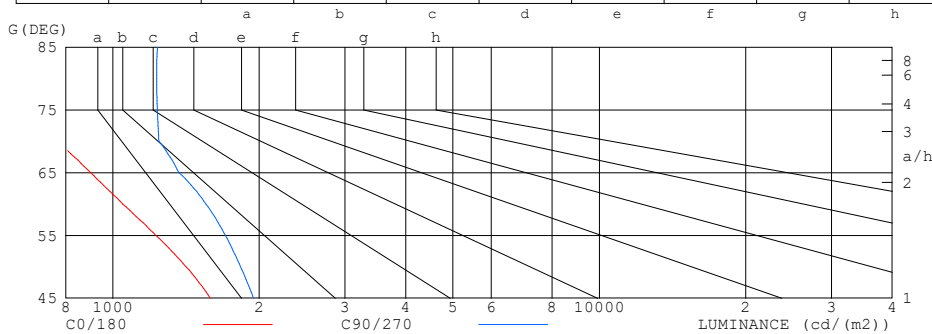
Lamp Flux:3328.8x1 lm

NAME: L7414-30W-AOK-REKW-SL

MFR.: EVERFINE

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	173	1236
80	453	1230
75	630	1235
70	769	1244
65	901	1368
60	1049	1556
55	1228	1704
50	1415	1831
45	1586	1947

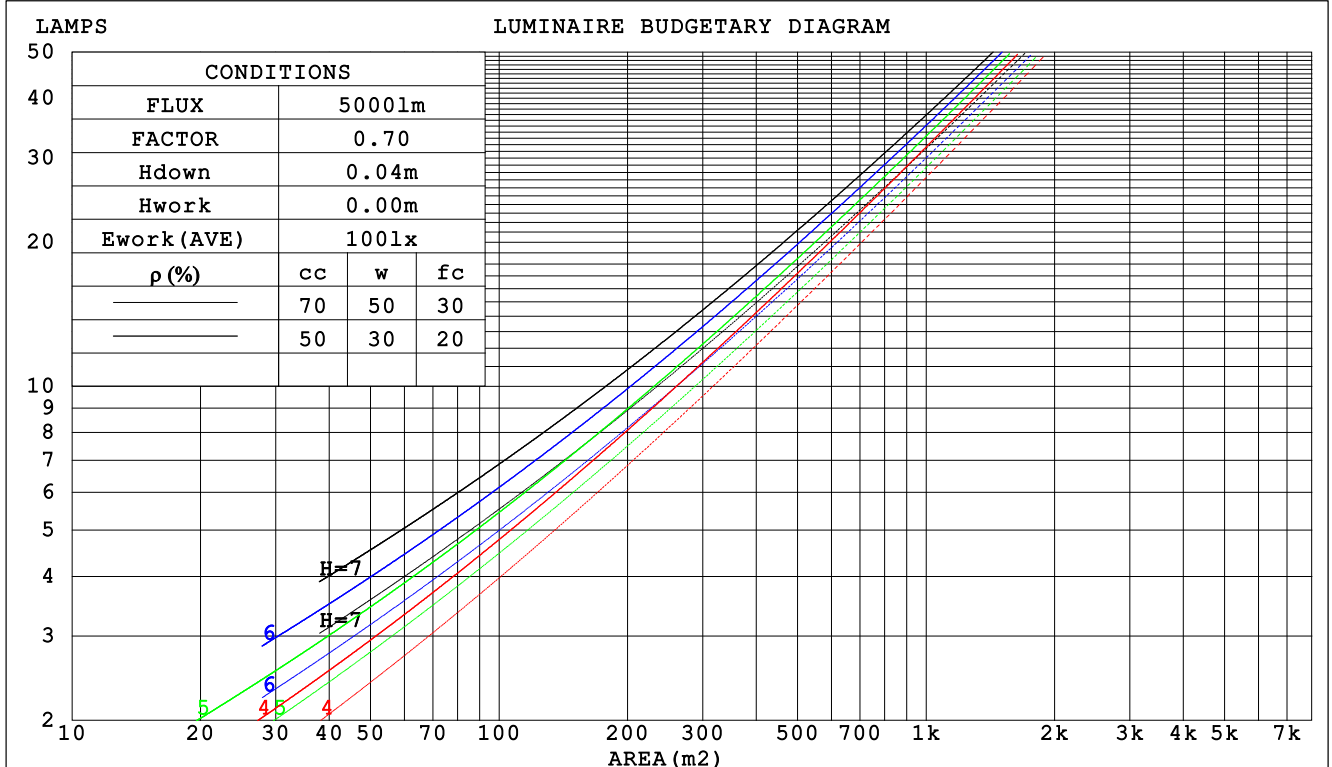
H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-09

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:120.39V I:0.2148A P:25.810W PF:0.9980 Freq:59.98Hz		
Lamp Flux:3328.8x1 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:120.39V I:0.2148A P:25.810W PF:0.9980 Freq:59.98Hz											
Lamp Flux:3328.8x1 lm											
NAME: L7414-30W-AOK-RFKW-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:120.39V I:0.2148A P:25.810W PF:0.9980 Freq:59.98Hz Lamp Flux:3328.8x1 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	12.2	12.8	14.0	13.1	14.3	14.6
8H	10.4	11.6	10.7	11.8	12.1	13.0	14.1	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	10.4	11.6	11.8	11.1	12.4	11.5	12.7	12.9
3H	11.0	12.2	11.4	12.5	12.8	12.5	13.6	12.8	13.9	14.2
4H	11.4	12.4	11.8	12.7	13.1	13.1	14.1	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	12.1	12.8	13.2	14.2	15.0	14.6	15.3	15.7
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	13.3	13.7	14.4	15.0	14.9	15.5	15.9
12H	12.3	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	14.0	13.7	14.4	14.8
6H	12.2	12.8	12.7	13.3	13.7	14.1	14.7	14.6	15.1	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, 3329 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 4.2)
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:120.39V I:0.2148A P:25.810W PF:0.9980 Freq:59.98Hz		
Lamp Flux:3328.8x1 lm		
NAME: L7414-30W-AOK-REKW-SL		
MFR.: EVERFINE		

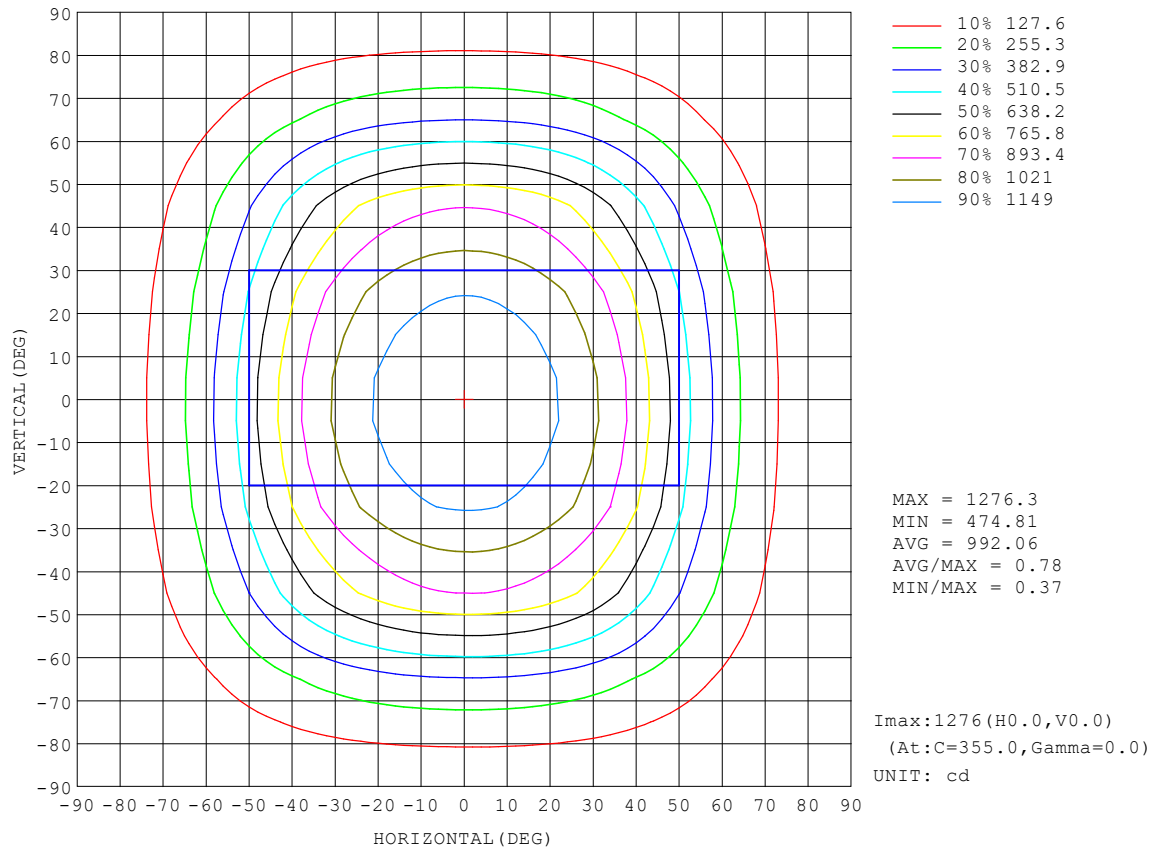
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	59	48	41	59	48	41	58	47	41	35
0.80	70	58	51	69	58	51	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:120.39V I:0.2148A P:25.810W PF:0.9980 Freq:59.98Hz		
Lamp Flux:3328.8x1 lm		
NAME: L7414-30W-AOK-RFKW-SL		
MFR.: EVERFINE		

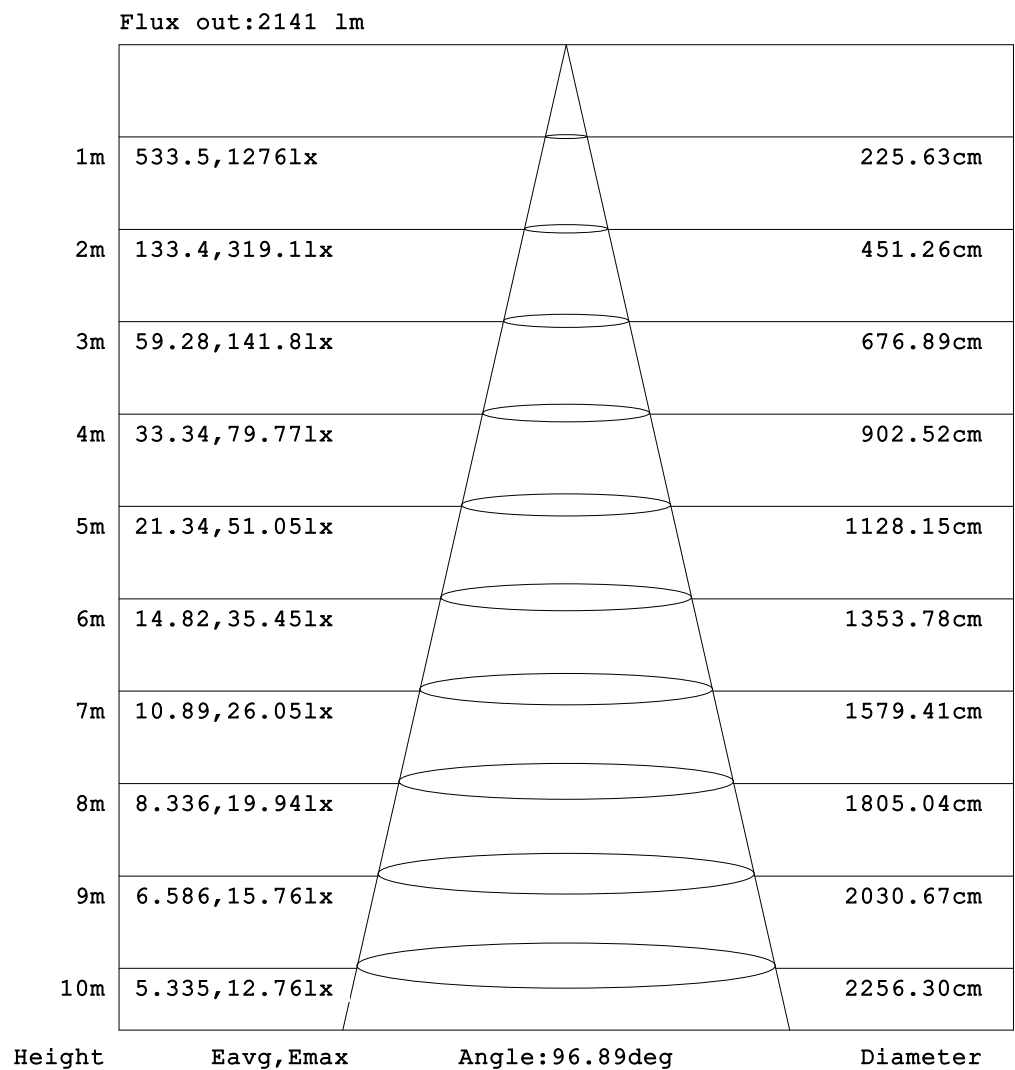


H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-09

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:120.39V I:0.2148A P:25.810W PF:0.9980 Freq:59.98Hz Lamp Flux:3328.8x1 lm		
NAME: L7414-30W-AOK-REKW-SL		
MFR.: EVERFINE		



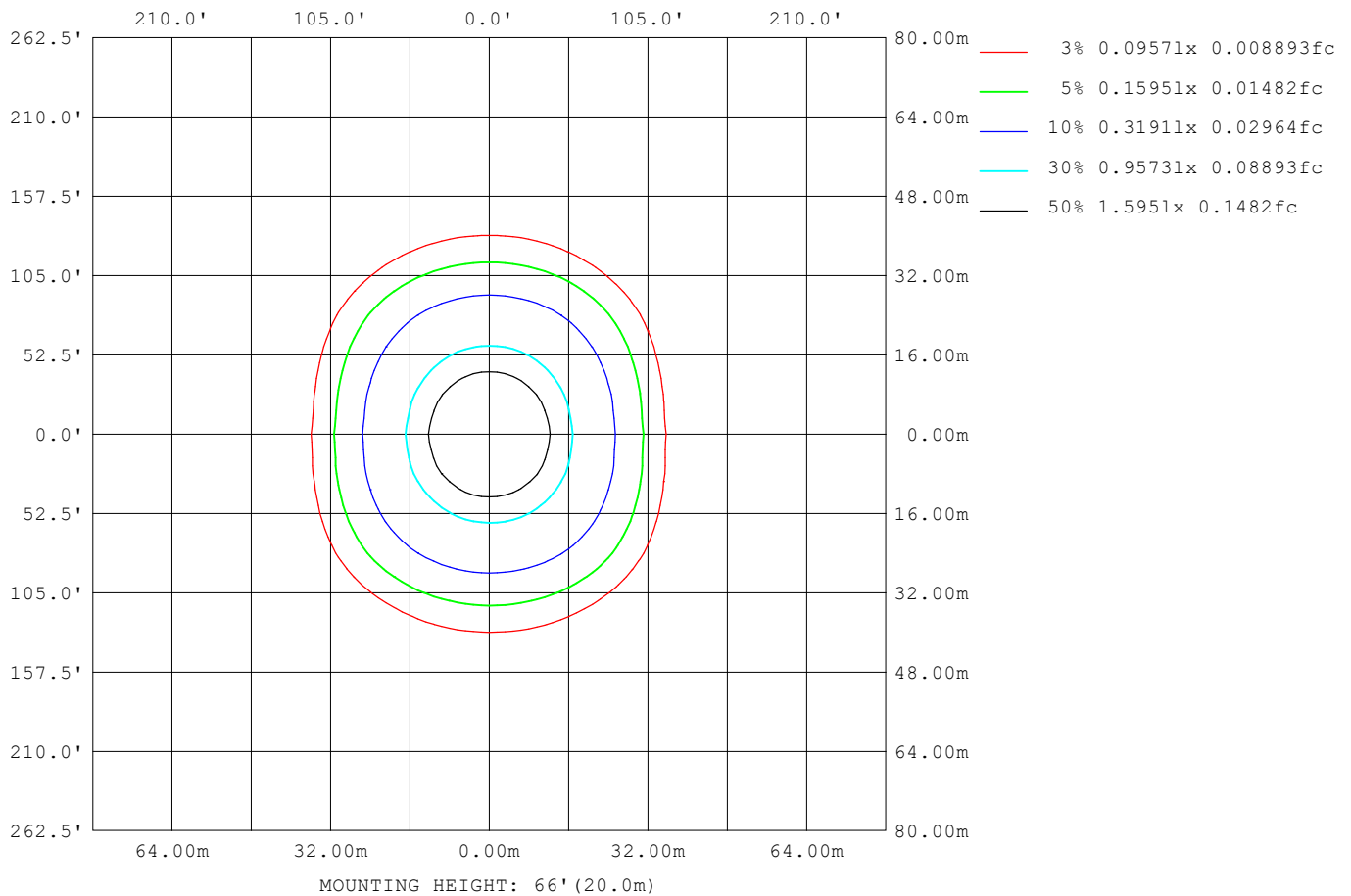
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.39V I:0.2148A P:25.810W PF:0.9980 Freq:59.98Hz Lamp Flux:3328.8x1 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:120.39V I:0.2148A P:25.810W PF:0.9980 Freq:59.98Hz Lamp Flux:3328.8x1 lm		
NAME: L7414-30W-AOK-REKW-SL		
MFR.: EVERFINE		

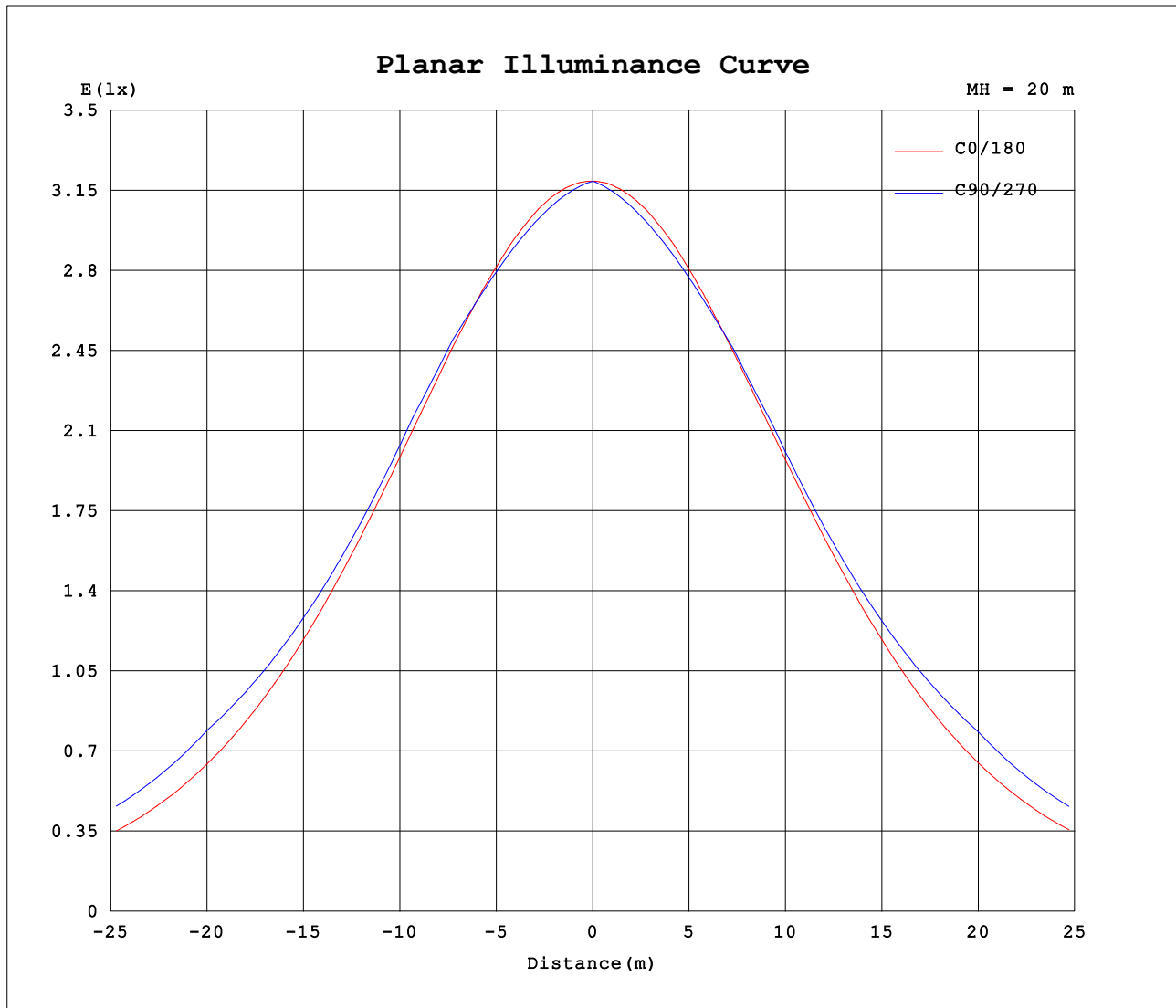
AvgL	cd/m2
L_0~180 (65) av	918
L_0~180 (75) av	660
L_0~180 (85) av	236
L_90~270 (65) av	1379
L_90~270 (75) av	1249
L_90~270 (85) av	1249
L_45 (65) av	1366
L_45 (75) av	1040
L_45 (85) av	996

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: