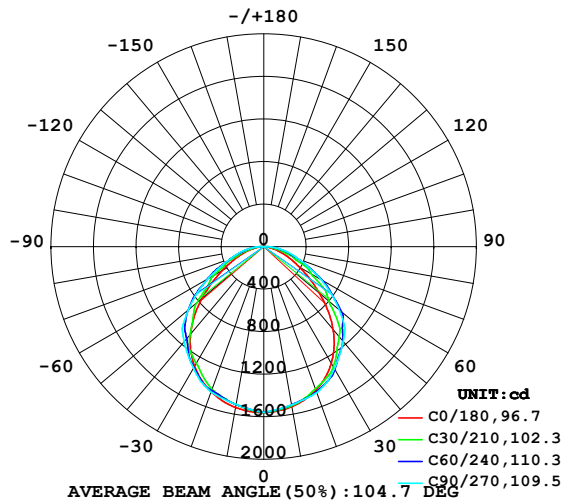


LUMINAIRE PHOTOMETRIC TEST REPORT

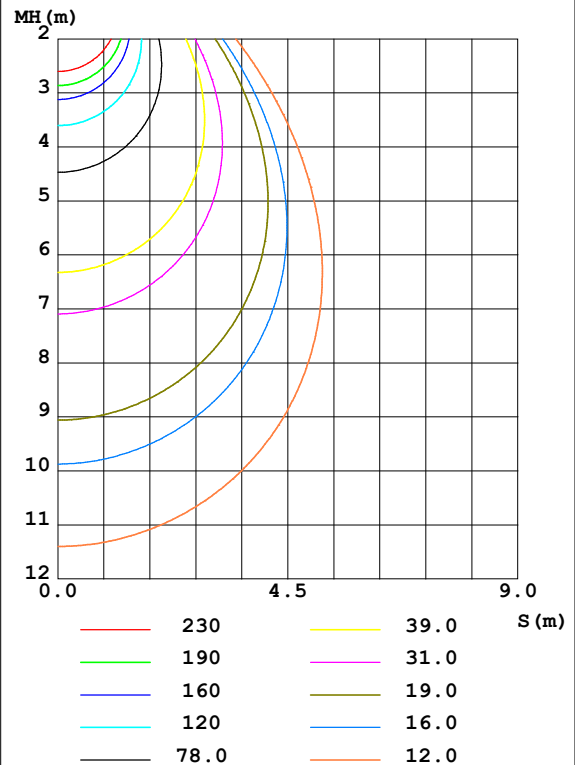
Test:U:120.39V I:0.2438A P:29.298W PF:0.9983 Freq:59.98Hz Lamp Flux:4053.54x1 lm		
NAME: L7414-30W-AOK-RFKW-SL		
MFR.: EVERFINE		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 138.36 lm/W			
MODEL		I _{max} (cd)	1560	S/MH(C0/180)	1.24
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	4053.5	η UP,DN(C0-180)	0.0,50.2
NOMINAL FLUX(lm)	4053.54	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:2024-08-09

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:

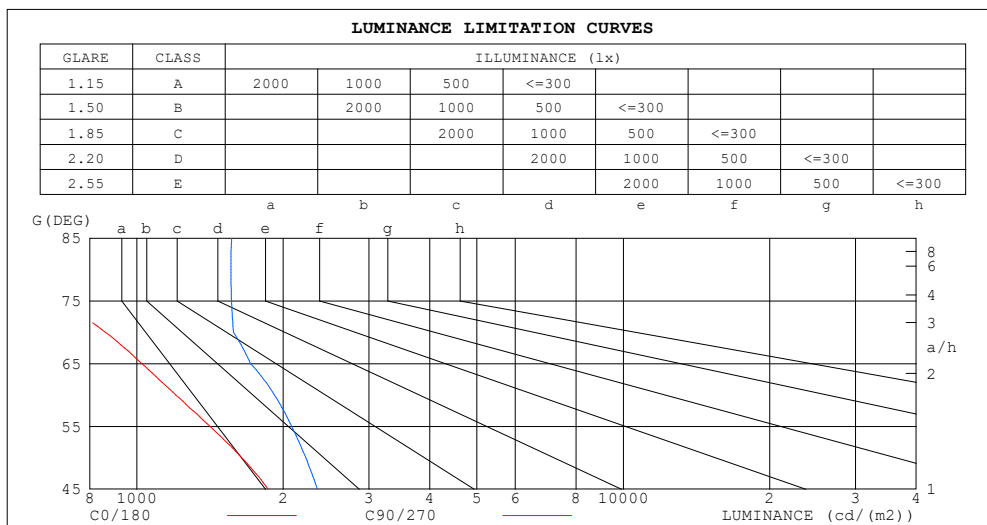
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1528	1513	1510	1509	1536	1506	1507	1510	0- 10	146.2	146.2	3.61,3.61
20	1436	1445	1461	1424	1452	1419	1454	1438	10- 20	417.8	564.0	13.9,13.9
30	1270	1325	1327	1313	1302	1307	1323	1313	20- 30	635.5	1200	29.6,29.6
40	1015	1116	1164	1118	1072	1119	1166	1102	30- 40	757.1	1957	48.3,48.3
50	686.9	877.0	929.6	887.8	761.0	894.0	927.4	859.6	40- 50	762.5	2719	67.1,67.1
60	390.9	600.9	624.1	608.4	451.8	612.9	608.1	583.0	50- 60	629.8	3349	82.6,82.6
70	191.6	329.4	351.2	322.3	236.0	322.8	327.8	312.7	60- 70	416.2	3765	92.9,92.9
80	50.26	145.2	176.3	135.7	86.65	135.2	164.3	135.2	70- 80	219.9	3985	98.3,98.3
90	0.4796	1.286	1.430	1.456	1.253	1.041	0.9401	0.9173	80- 90	68.66	4054	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:0.2438A P:29.298W PF:0.9983 Freq:59.98Hz Lamp Flux:4053.54x1 lm		
NAME: L7414-30W-AOK-REKW-SL		
MFR.: EVERFINE		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	135	1567
80	445	1562
75	683	1566
70	862	1580
65	1025	1714
60	1203	1920
55	1415	2082
50	1644	2225
45	1861	2353

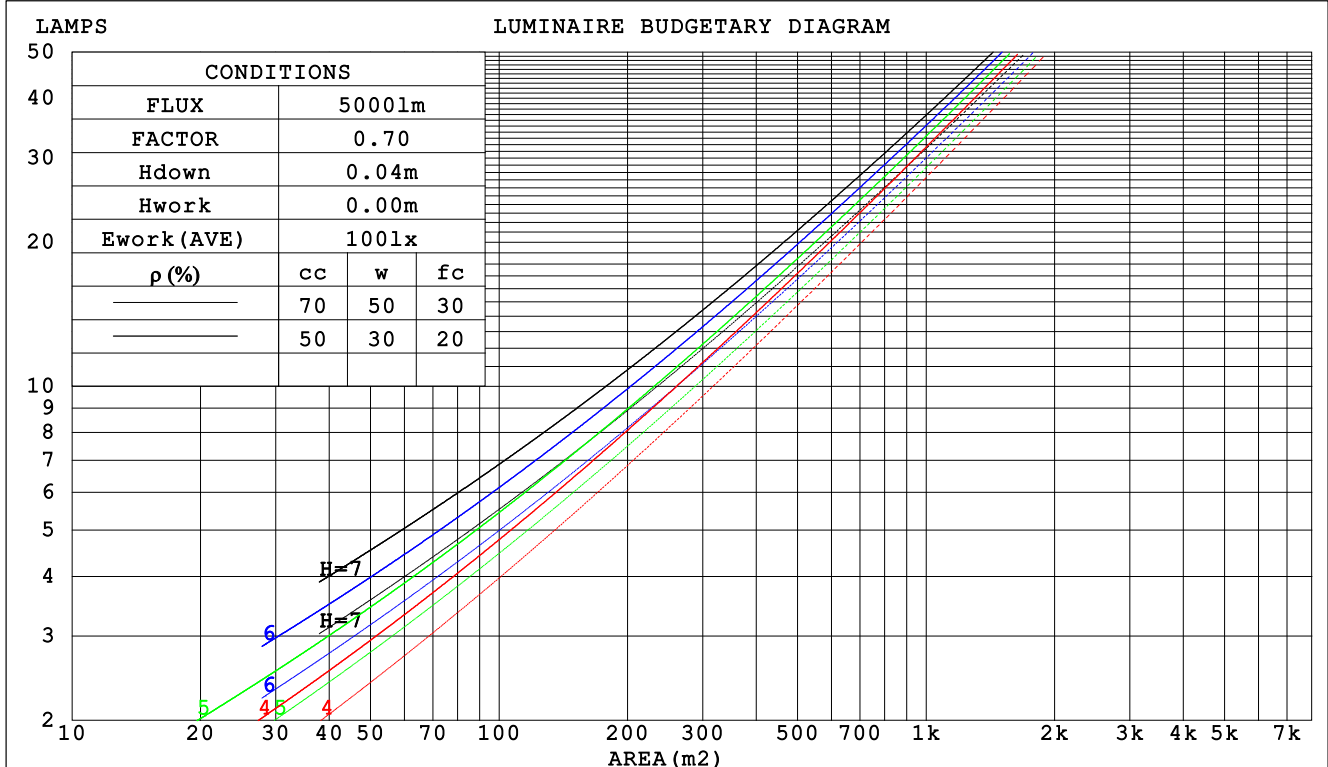
H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-09

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:0.2438A P:29.298W PF:0.9983 Freq:59.98Hz		
Lamp Flux:4053.54x1 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	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
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	.87	.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	.60	.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	.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:2024-08-09

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:0.2438A P:29.298W PF:0.9983 Freq:59.98Hz		
Lamp Flux:4053.54x1 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	.293	.167	.053	.286	.163	.052	.273	.157	.050	.261	.151	.048	.250	.145	.047		
2.0	.278	.152	.047	.271	.150	.046	.260	.144	.045	.249	.140	.044	.239	.135	.043		
3.0	.258	.138	.041	.253	.136	.041	.243	.132	.040	.233	.128	.039	.225	.124	.038		
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	.031		
6.0	.207	.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	.163	.080	.023	.158	.079	.023	.153	.078	.022		
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	.018	.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	.120	.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:0.2438A P:29.298W PF:0.9983 Freq:59.98Hz										
Lamp Flux:4053.54x1 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	9.2	10.6	9.4	10.8	11.0	10.7	12.2	11.0	12.4	12.6
3H	9.9	11.3	10.2	11.5	11.8	11.9	13.3	12.2	13.5	13.7
4H	10.2	11.5	10.5	11.7	12.0	12.5	13.7	12.8	14.0	14.2
6H	10.3	11.5	10.6	11.8	12.0	12.9	14.1	13.3	14.4	14.7
8H	10.3	11.5	10.6	11.7	12.0	13.1	14.3	13.5	14.6	14.9
12H	10.2	11.4	10.6	11.7	12.0	13.3	14.4	13.6	14.7	15.0
4H 2H	10.0	11.3	10.3	11.5	11.8	11.1	12.4	11.5	12.7	12.9
3H	10.9	12.1	11.3	12.4	12.7	12.5	13.7	12.9	14.0	14.3
4H	11.3	12.3	11.7	12.6	13.0	13.2	14.3	13.6	14.6	14.9
6H	11.5	12.4	11.9	12.8	13.1	13.9	14.8	14.3	15.1	15.5
8H	11.5	12.4	11.9	12.7	13.1	14.1	15.0	14.5	15.3	15.7
12H	11.5	12.3	11.9	12.7	13.1	14.3	15.1	14.8	15.5	15.9
8H 4H	11.7	12.5	12.1	12.9	13.3	13.4	14.2	13.8	14.6	15.0
6H	12.0	12.7	12.5	13.1	13.6	14.2	14.9	14.6	15.3	15.7
8H	12.1	12.7	12.6	13.2	13.6	14.6	15.2	15.0	15.6	16.1
12H	12.2	12.7	12.6	13.1	13.6	14.9	15.4	15.4	15.9	16.3
12H 4H	11.7	12.5	12.1	12.9	13.3	13.4	14.2	13.8	14.5	14.9
6H	12.1	12.8	12.6	13.2	13.6	14.2	14.8	14.7	15.3	15.7
8H	12.3	12.8	12.8	13.3	13.8	14.6	15.2	15.1	15.6	16.1
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.4 / - 0.4					+ 0.2 / - 0.2				
1.5H	+ 0.3 / - 0.5					+ 0.2 / - 0.4				
2.0H	+ 0.4 / - 1.0					+ 0.2 / - 0.3				

CIE Pub.117, 4054 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 4.9)
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:0.2438A P:29.298W PF:0.9983 Freq:59.98Hz		
Lamp Flux:4053.54x1 lm		
NAME: L7414-30W-AOK-REKW-SL		
MFR.: EVERFINE		

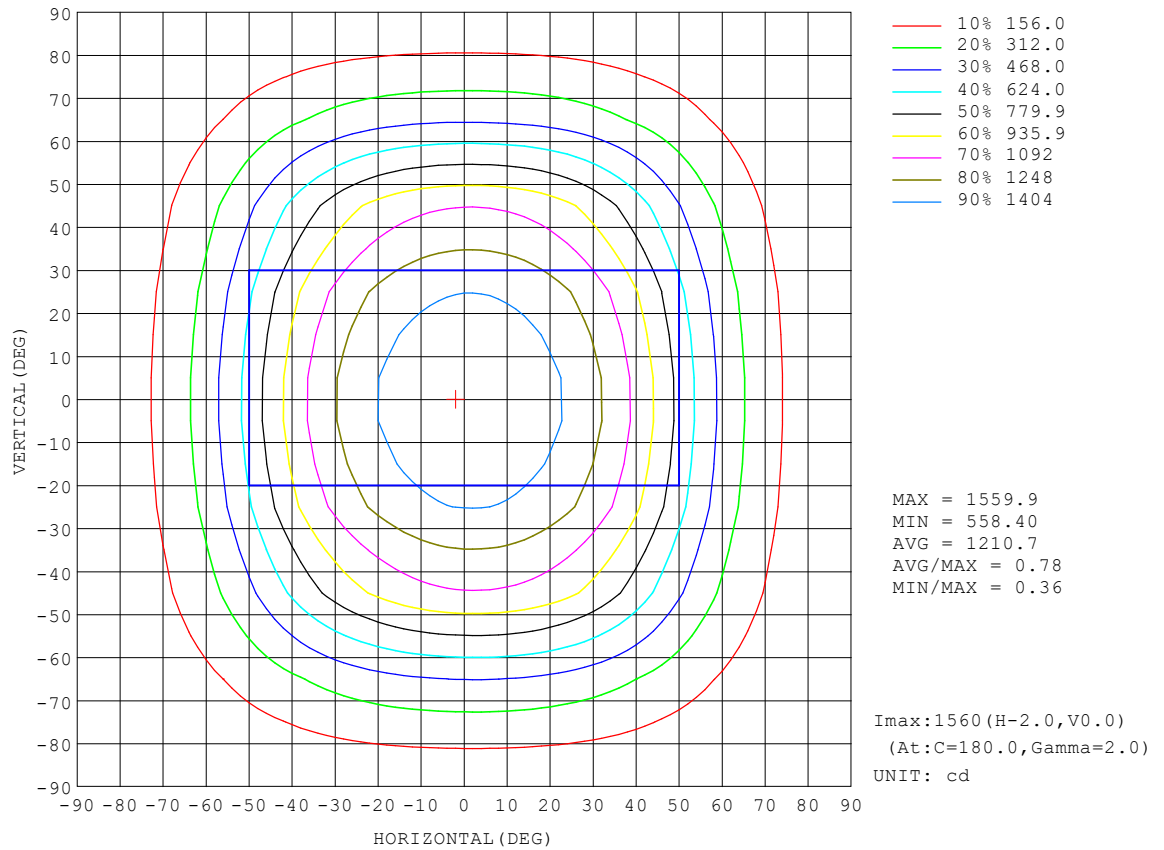
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	59	48	41	59	48	41	58	47	41	35
0.80	70	58	51	69	58	51	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	97	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	101	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:0.2438A P:29.298W PF:0.9983 Freq:59.98Hz Lamp Flux:4053.54x1 lm		
NAME: L7414-30W-AOK-RFKW-SL		
MFR.: EVERFINE		

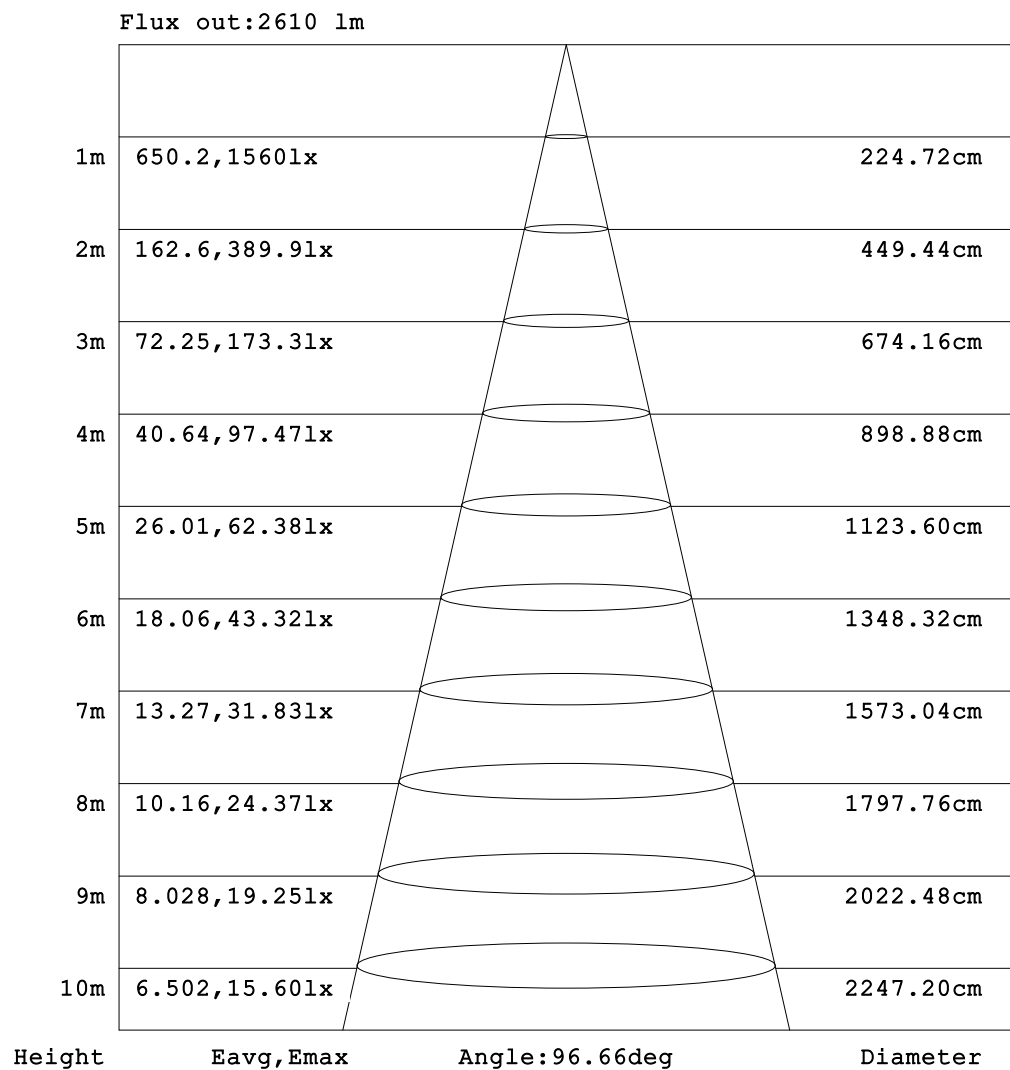


H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-09

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:0.2438A P:29.298W PF:0.9983 Freq:59.98Hz Lamp Flux:4053.54x1 lm		
NAME: L7414-30W-AOK-REKW-SL		
MFR.: EVERFINE		



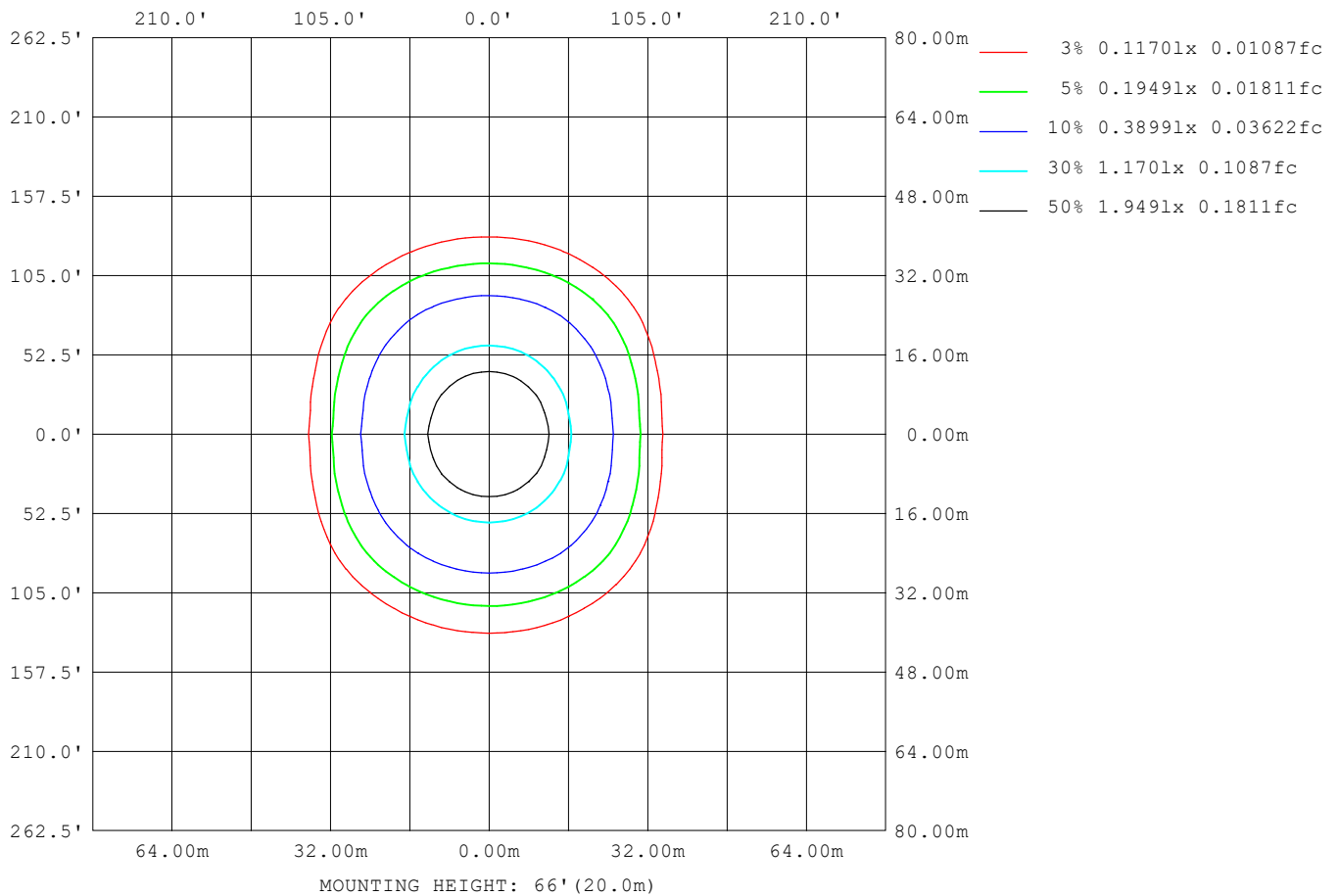
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.2438A P:29.298W PF:0.9983 Freq:59.98Hz Lamp Flux:4053.54x1 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:0.2438A P:29.298W PF:0.9983 Freq:59.98Hz		
Lamp Flux:4053.54x1 lm		
NAME: L7414-30W-AOK-REKW-SL		
MFR.: EVERFINE		

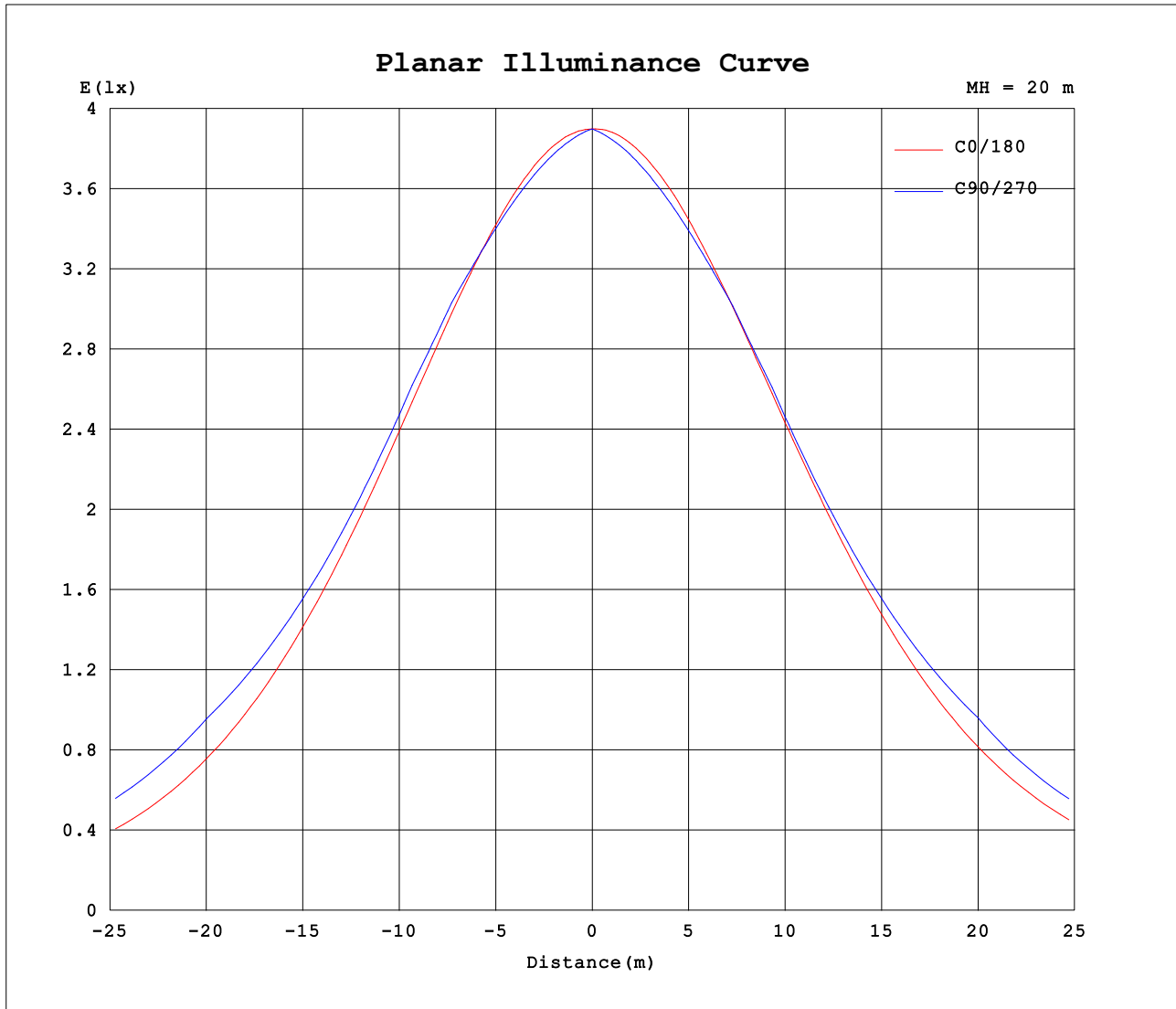
AvgL	cd/m2
L_0~180 (65) av	1117
L_0~180 (75) av	806
L_0~180 (85) av	334
L_90~270 (65) av	1673
L_90~270 (75) av	1515
L_90~270 (85) av	1513
L_45 (65) av	1660
L_45 (75) av	1265
L_45 (85) av	1211

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: