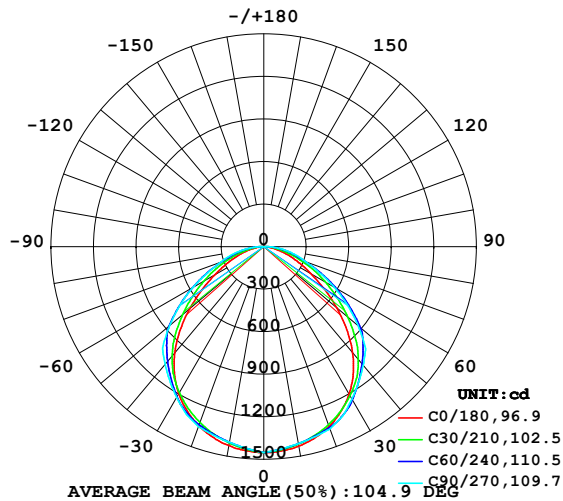


LUMINAIRE PHOTOMETRIC TEST REPORT

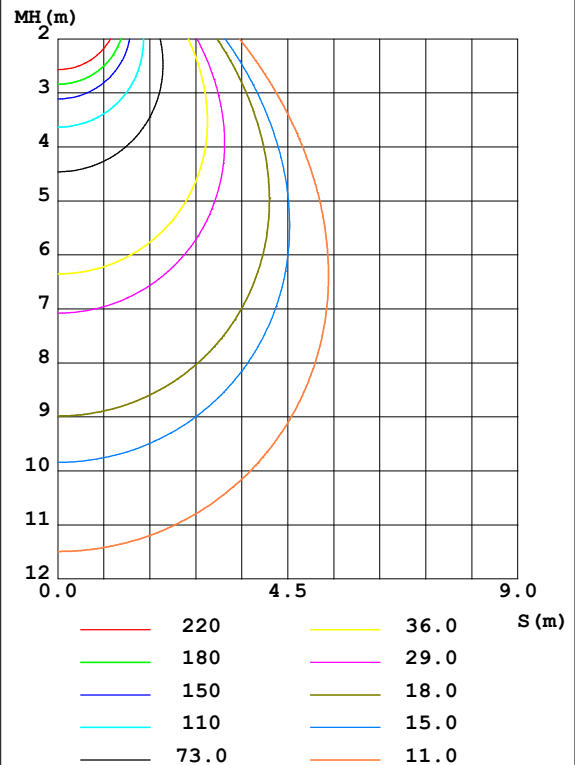
Test:U:120.38V I:0.2529A P:30.399W PF:0.9982 Freq:59.98Hz Lamp Flux:3786.9x1 lm		
NAME: L7414-30W-AOK-RFKW-SL		
MFR.: EVERFINE		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 124.57 lm/W			
MODEL		I _{max} (cd)	1453	S/MH(C0/180)	1.23
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	3786.9	η UP,DN(C0-180)	0.0,50.3
NOMINAL FLUX(lm)	3786.9	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:

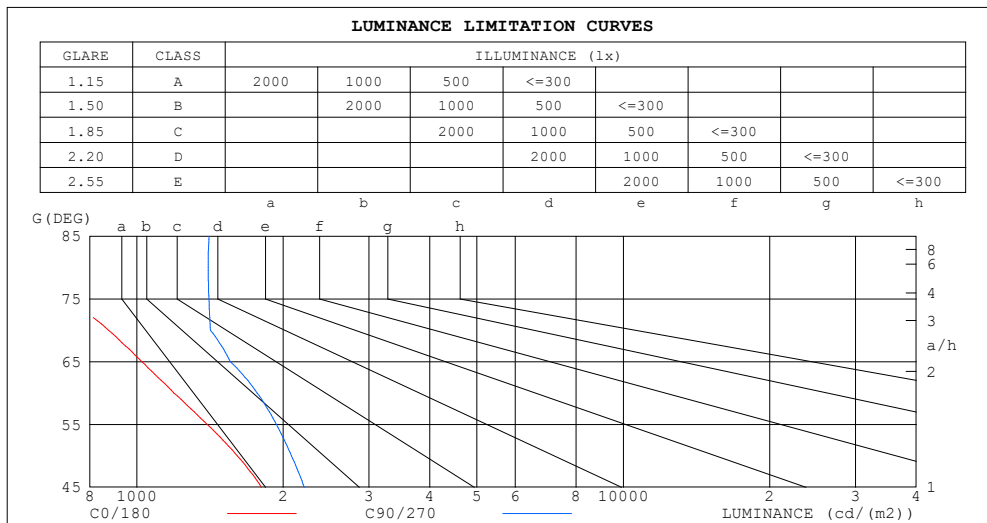
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1429	1411	1410	1408	1424	1402	1401	1404	0- 10	136.1	136.1	3.59,3.59
20	1350	1345	1367	1338	1343	1326	1350	1331	10- 20	389.3	525.4	13.9,13.9
30	1203	1244	1243	1230	1199	1213	1228	1220	20- 30	592.7	1118	29.5,29.5
40	974.7	1059	1092	1042	977.7	1029	1083	1033	30- 40	707.0	1825	48.2,48.2
50	672.6	842.5	868.9	824.6	682.5	814.5	866.5	812.8	40- 50	712.9	2538	67,67
60	387.8	577.7	574.9	565.2	399.0	558.6	578.4	551.6	50- 60	589.2	3127	82.6,82.6
70	194.6	309.2	315.1	303.0	205.4	301.0	322.1	291.9	60- 70	389.5	3517	92.9,92.9
80	58.16	132.9	158.3	130.1	69.70	129.4	161.6	123.7	70- 80	205.9	3723	98.3,98.3
90	0.6491	1.203	1.379	1.353	0.7349	1.042	1.041	0.9146	80- 90	64.26	3787	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:120.38V I:0.2529A P:30.399W PF:0.9982 Freq:59.98Hz		
Lamp Flux:3786.9x1 lm		
NAME: L7414-30W-AOK-REKW-SL		
MFR.: EVERFINE		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	197	1409
80	515	1402
75	716	1407
70	875	1417
65	1025	1558
60	1193	1769
55	1397	1936
50	1610	2080
45	1804	2210

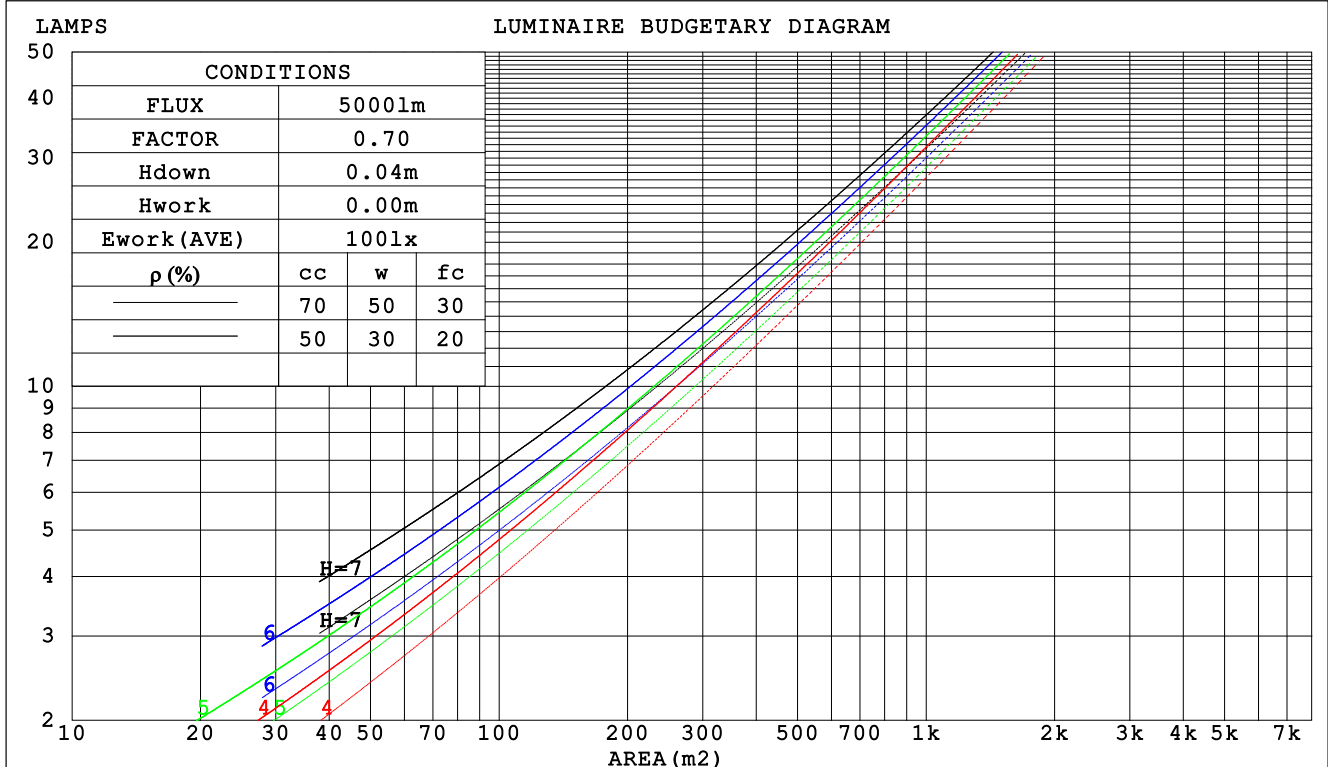
H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-09

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:120.38V I:0.2529A P:30.399W PF:0.9982 Freq:59.98Hz		
Lamp Flux:3786.9x1 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:120.38V I:0.2529A P:30.399W PF:0.9982 Freq:59.98Hz											
Lamp Flux:3786.9x1 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	.240	.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:120.38V I:0.2529A P:30.399W PF:0.9982 Freq:59.98Hz										
Lamp Flux:3786.9x1 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	12.4	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	14.2	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	12.1	12.8	13.2	14.2	15.0	14.6	15.3	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	13.3	13.7	14.4	15.1	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	14.1	13.7	14.4	14.8
6H	12.2	12.8	12.7	13.3	13.7	14.1	14.7	14.6	15.1	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, 3787 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 4.6)
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:120.38V I:0.2529A P:30.399W PF:0.9982 Freq:59.98Hz		
Lamp Flux:3786.9x1 lm		
NAME: L7414-30W-AOK-REKW-SL		
MFR.: EVERFINE		

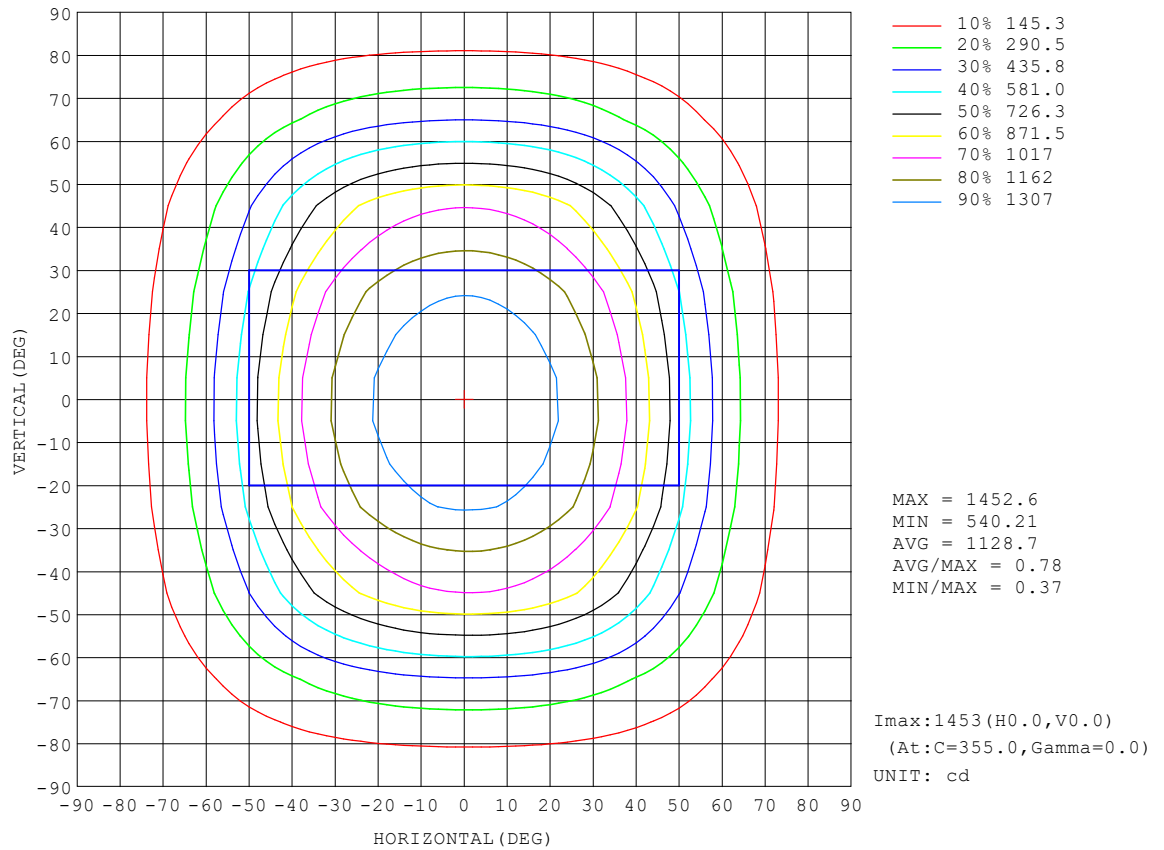
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	59	48	41	59	48	41	58	47	41	35
0.80	70	58	51	69	58	51	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:120.38V I:0.2529A P:30.399W PF:0.9982 Freq:59.98Hz Lamp Flux:3786.9x1 lm		
NAME: L7414-30W-AOK-RFKW-SL		
MFR.: EVERFINE		

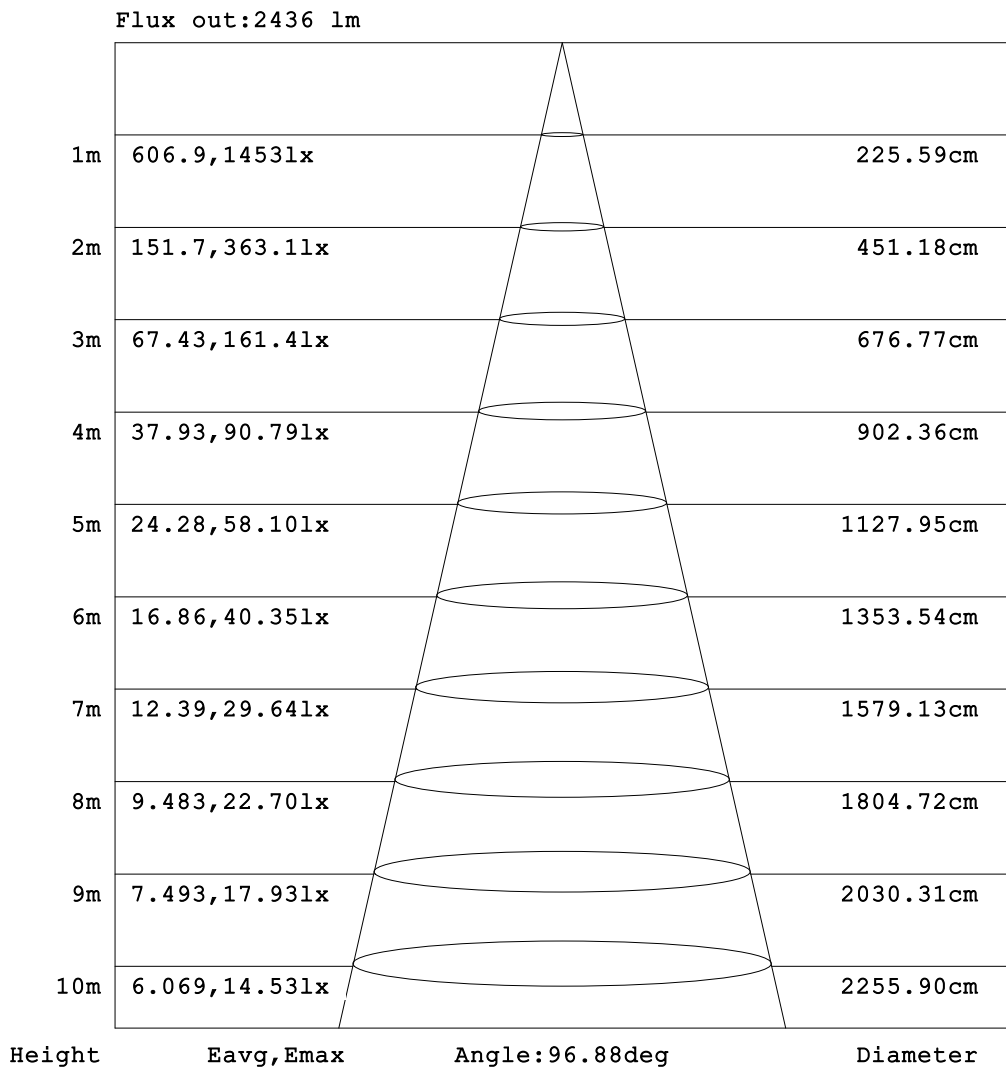


H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-09

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:120.38V I:0.2529A P:30.399W PF:0.9982 Freq:59.98Hz Lamp Flux:3786.9x1 lm		
NAME: L7414-30W-AOK-REKW-SL		
MFR.: EVERFINE		



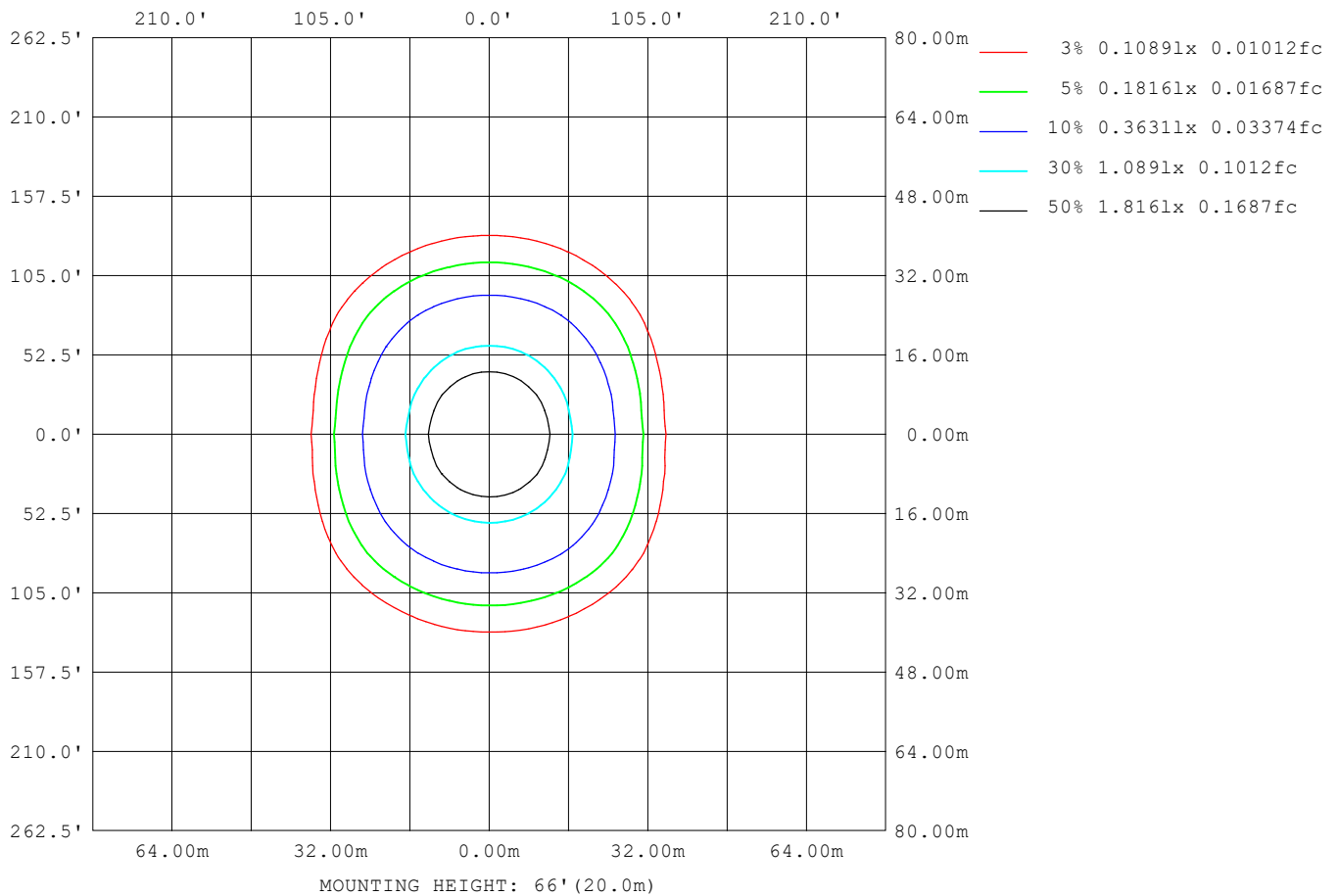
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.38V I:0.2529A P:30.399W PF:0.9982 Freq:59.98Hz Lamp Flux:3786.9x1 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:120.38V I:0.2529A P:30.399W PF:0.9982 Freq:59.98Hz Lamp Flux:3786.9x1 lm		
NAME: L7414-30W-AOK-RFKW-SL		
MFR.: EVERFINE		

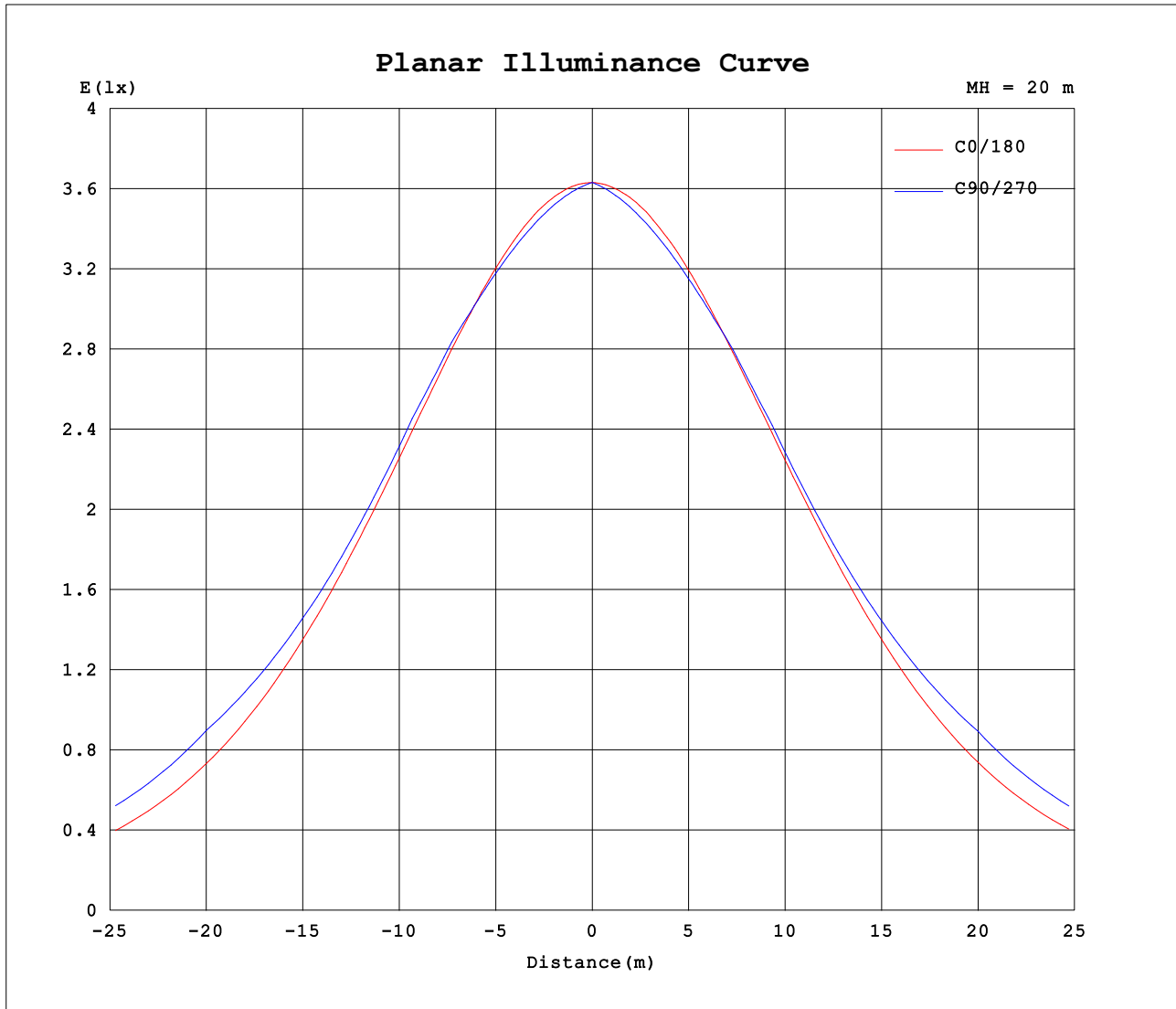
AvgL	cd/m2
L_0~180 (65) av	1044
L_0~180 (75) av	751
L_0~180 (85) av	268
L_90~270 (65) av	1569
L_90~270 (75) av	1422
L_90~270 (85) av	1422
L_45 (65) av	1554
L_45 (75) av	1184
L_45 (85) av	1134

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:

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Remarks: