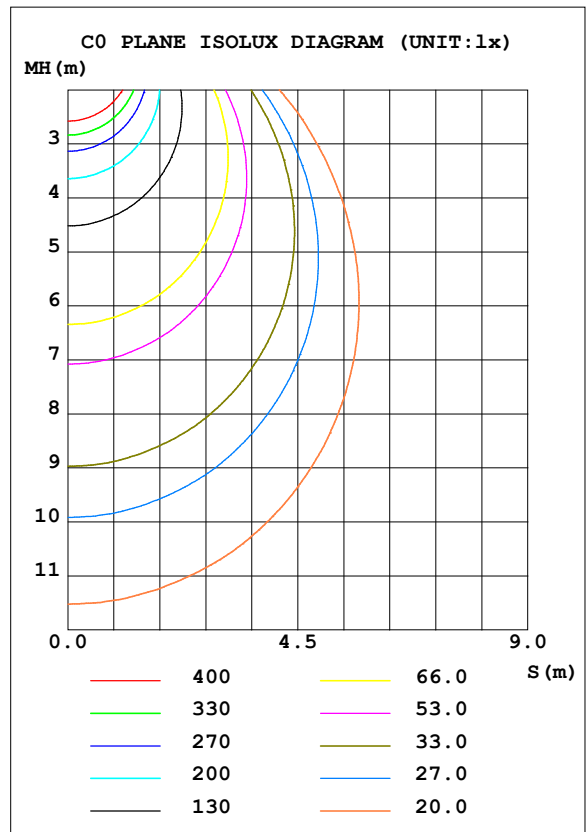
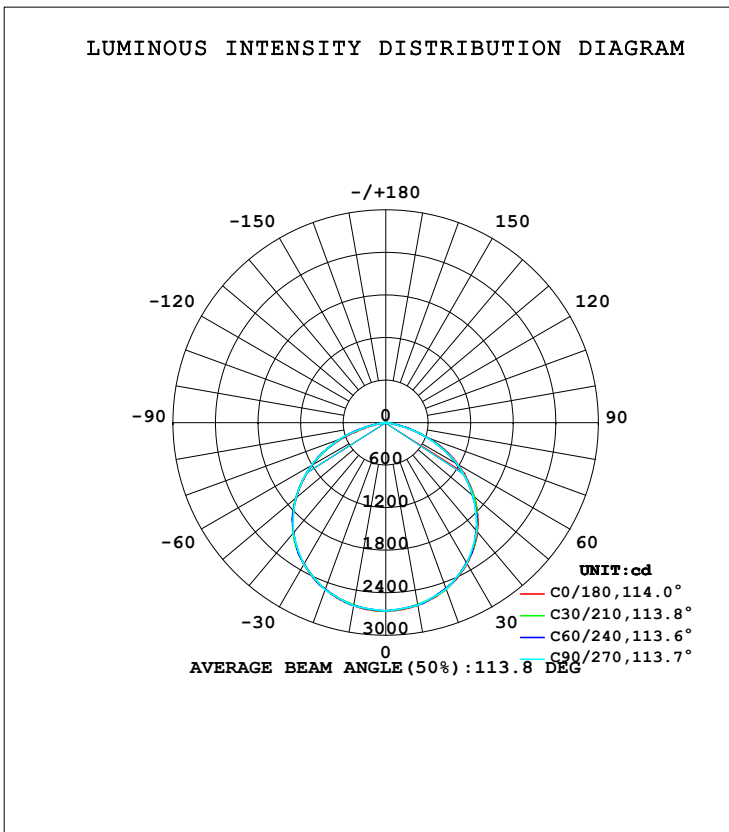


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: LEDFLOOD100W4K	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL		Imax (cd)	2656	S/MH (C0/180)	1.28
NOMINAL POWER (W)	100	LOR (%)	100.0	S/MH (C90/270)	1.28
RATED VOLTAGE (V)	228	TOTAL FLUX (lm)	7440.9	η UP, DN (C0-180)	0.0, 49.4
NOMINAL FLUX (lm)	7440.93	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.6
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	228.9	η down (%)	100.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2018-12-19

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.265
 Humidity: 65.0%
 Test Distance: 12.300m [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
5	2647	2635	2634	2640	2648	2641	2638	2639	0- 5	63.25	63.25	0.85,0.85
10	2611	2606	2614	2610	2617	2612	2621	2612	5- 10	187.8	251.1	3.37,3.37
15	2564	2562	2555	2561	2573	2566	2564	2568	10- 15	306.8	557.9	7.5,7.5
20	2496	2483	2495	2487	2501	2496	2508	2494	15- 20	416.6	974.5	13.1,13.1
25	2405	2396	2392	2402	2415	2416	2410	2411	20- 25	513.7	1488	20,20
30	2296	2283	2289	2289	2308	2308	2312	2300	25- 30	594.6	2083	28,28
35	2164	2150	2141	2154	2176	2177	2171	2173	30- 35	656.8	2740	36.8,36.8
40	2010	2003	1992	2004	2026	2032	2030	2031	35- 40	696.5	3436	46.2,46.2
45	1833	1811	1798	1819	1850	1853	1843	1849	40- 45	712.2	4148	55.7,55.7
50	1629	1612	1605	1625	1646	1668	1657	1656	45- 50	700.7	4849	65.2,65.2
55	1406	1378	1381	1386	1429	1437	1438	1428	50- 55	662.7	5512	74.1,74.1
60	1176	1141	1158	1145	1199	1199	1218	1196	55- 60	598.9	6111	82.1,82.1
65	930.2	889.8	889.7	896.6	948.0	950.8	957.7	941.2	60- 65	512.4	6623	89,89
70	646.8	634.2	621.4	641.5	646.0	694.8	696.8	684.9	65- 70	401.9	7025	94.4,94.4
75	314.0	370.4	335.6	372.2	315.1	423.7	393.4	430.5	70- 75	267.5	7292	98,98
80	74.29	146.0	49.81	144.0	62.32	169.1	89.90	177.1	75- 80	123.9	7416	99.7,99.7
85	1.454	10.42	0	8.826	2.380	11.14	0	13.63	80- 85	23.76	7440	100,100
90	1.077	0	0	0	1.633	0	0	0	85- 90	0.8618	7441	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd								UNIT:lm			

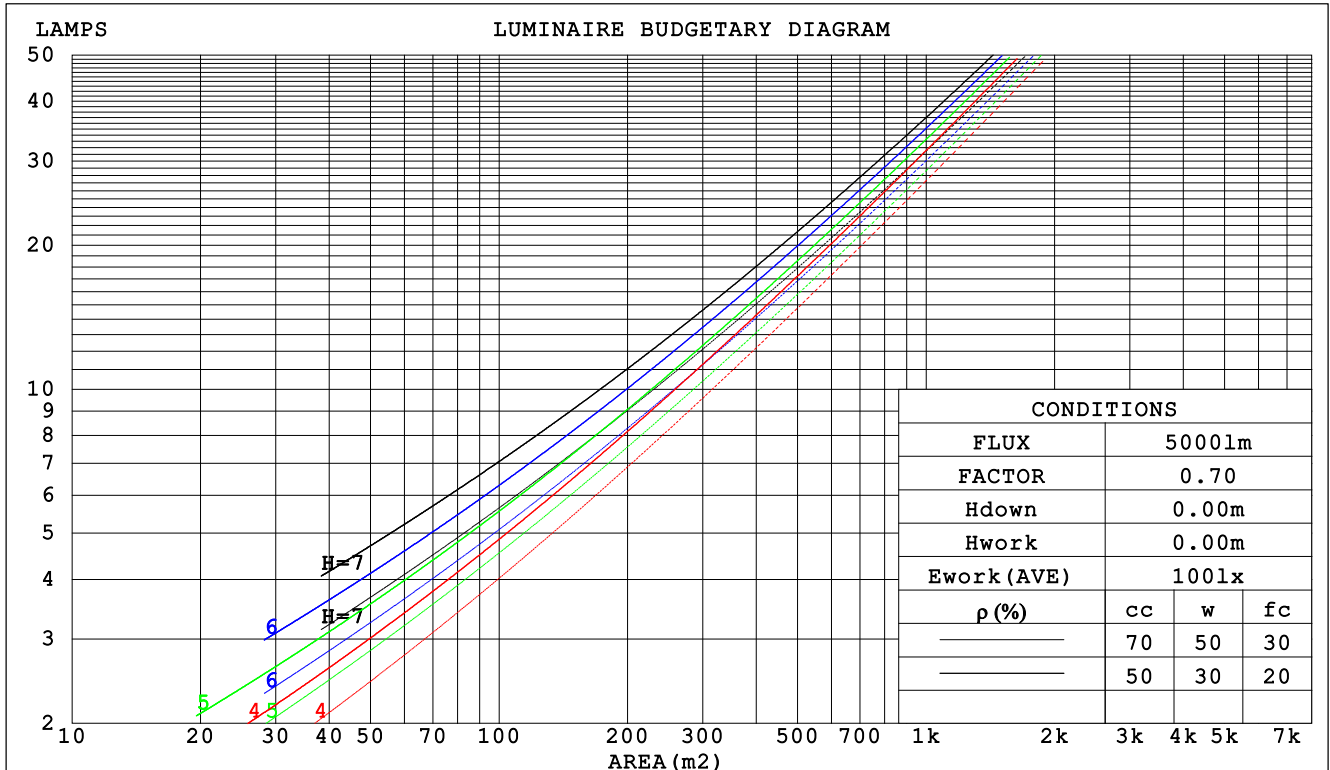
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2018-12-19

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:12.300m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: LEDFLOOD100W4K	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

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	.98	1.03	.99	.96	.99	.96	.93	.95	.92	.90	.91	.89	.87	.85
2.0	.92	.85	.80	.90	.84	.79	.87	.82	.77	.83	.79	.75	.80	.77	.74	.72
3.0	.81	.73	.67	.79	.72	.66	.76	.70	.65	.74	.68	.64	.71	.67	.63	.60
4.0	.72	.63	.56	.70	.62	.56	.68	.61	.55	.66	.59	.55	.63	.58	.54	.52
5.0	.64	.55	.49	.63	.55	.48	.61	.53	.48	.59	.52	.47	.57	.51	.47	.45
6.0	.58	.49	.42	.57	.48	.42	.55	.47	.42	.53	.46	.41	.52	.46	.41	.39
7.0	.52	.43	.37	.51	.43	.37	.50	.42	.37	.48	.42	.37	.47	.41	.36	.34
8.0	.48	.39	.33	.47	.39	.33	.46	.38	.33	.44	.38	.33	.43	.37	.33	.31
9.0	.44	.35	.30	.43	.35	.30	.42	.35	.30	.41	.34	.29	.40	.34	.29	.28
10.0	.40	.32	.27	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.27	.25



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2018-12-19

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
 Humidity:65.0%
 Test Distance:12.300m [K=1.0000]
 Remarks:

WEC AND CCEC

NAME: LEDFLOOD100W4K	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

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						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.286	.162	.051	.279	.159	.050	.265	.152	.049	.253	.146	.047	.242	.140	.045	
2.0	.277	.152	.047	.271	.149	.046	.259	.144	.045	.249	.140	.044	.239	.135	.043	
3.0	.260	.139	.041	.255	.137	.041	.245	.133	.040	.235	.129	.040	.226	.125	.039	
4.0	.243	.126	.037	.238	.124	.037	.229	.121	.036	.220	.118	.036	.212	.115	.035	
5.0	.226	.115	.033	.221	.114	.033	.213	.111	.033	.206	.109	.032	.199	.106	.032	
6.0	.210	.105	.030	.206	.104	.030	.199	.102	.030	.192	.100	.029	.186	.098	.029	
7.0	.196	.097	.027	.193	.096	.027	.186	.094	.027	.180	.092	.027	.175	.091	.027	
8.0	.184	.090	.025	.181	.089	.025	.175	.087	.025	.169	.086	.025	.164	.084	.025	
9.0	.172	.083	.023	.170	.083	.023	.165	.081	.023	.160	.080	.023	.155	.079	.023	
10.0	.162	.078	.022	.160	.077	.022	.155	.076	.021	.151	.075	.021	.147	.074	.021	

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						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	.163	.114	.076	.139	.099	.066	.096	.068	.046	.055	.040	.027	.018	.013	.009	
4.0	.155	.101	.059	.133	.087	.052	.092	.061	.036	.053	.036	.021	.017	.012	.007	
5.0	.148	.090	.048	.127	.078	.042	.088	.055	.029	.051	.032	.017	.016	.010	.006	
6.0	.141	.082	.040	.121	.071	.035	.084	.050	.024	.049	.029	.015	.016	.010	.005	
7.0	.134	.075	.034	.116	.065	.029	.080	.046	.021	.046	.027	.012	.015	.009	.004	
8.0	.128	.069	.029	.110	.060	.025	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.122	.064	.025	.105	.056	.022	.073	.039	.016	.042	.023	.009	.014	.008	.003	
10.0	.117	.060	.023	.100	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2018-12-19

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:12.300m [K=1.0000]
Remarks:

Uncorrected UGR Table

NAME: LEDFLOOD100W4K		TYPE:					WEIGHT:				
DIM.:		SPEC.:					SERIAL No.:				
MFR.: EVERFINE		SUR.:					PROTECTION ANGLE:				
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		19.2	20.7	19.5	20.9	21.1	19.2	20.6	19.4	20.8	21.1
	3H	20.5	21.9	20.8	22.1	22.4	20.4	21.8	20.7	22.0	22.2
	4H	20.8	22.1	21.1	22.3	22.6	20.7	22.0	21.0	22.2	22.5
	6H	20.8	22.0	21.1	22.3	22.6	20.7	21.9	21.0	22.2	22.5
	8H	20.7	21.9	21.1	22.2	22.5	20.6	21.8	21.0	22.1	22.4
	12H	20.7	21.8	21.0	22.1	22.4	20.6	21.7	20.9	22.0	22.3
	4H 2H	19.8	21.1	20.1	21.3	21.6	19.7	21.0	20.0	21.3	21.5
	3H	21.2	22.3	21.5	22.6	22.9	21.1	22.2	21.4	22.5	22.8
	4H	21.5	22.6	21.9	22.9	23.2	21.5	22.5	21.8	22.8	23.1
	6H	21.6	22.5	22.0	22.8	23.2	21.5	22.4	21.9	22.8	23.1
	8H	21.5	22.4	21.9	22.7	23.1	21.5	22.3	21.9	22.7	23.1
	12H	21.5	22.3	21.9	22.7	23.1	21.4	22.2	21.9	22.6	23.0
	8H 4H	21.6	22.5	22.1	22.9	23.2	21.6	22.4	22.0	22.8	23.2
	6H	21.7	22.4	22.2	22.8	23.3	21.7	22.4	22.1	22.8	23.2
	8H	21.7	22.3	22.2	22.7	23.2	21.7	22.3	22.1	22.7	23.1
	12H	21.7	22.2	22.2	22.6	23.1	21.6	22.1	22.1	22.6	23.1
	12H 4H	21.6	22.4	22.0	22.8	23.2	21.6	22.3	22.0	22.7	23.1
	6H	21.7	22.3	22.2	22.8	23.2	21.7	22.3	22.1	22.7	23.2
	8H	21.7	22.2	22.2	22.7	23.1	21.6	22.2	22.1	22.6	23.1
Variations with the observer position at spacings:											
S = 1.0H		+ 0.2 / - 0.3					+ 0.3 / - 0.3				
1.5H		+ 0.2 / - 0.4					+ 0.2 / - 0.4				
2.0H		+ 0.4 / - 0.4					+ 0.3 / - 0.4				

CIE Pub.117 Corrected 7441 lm Total Lamp Luminous Flux. (8log(F/F0) = 7.0)

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2018-12-19

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:12.300m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: LEDFLOOD100W4K	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

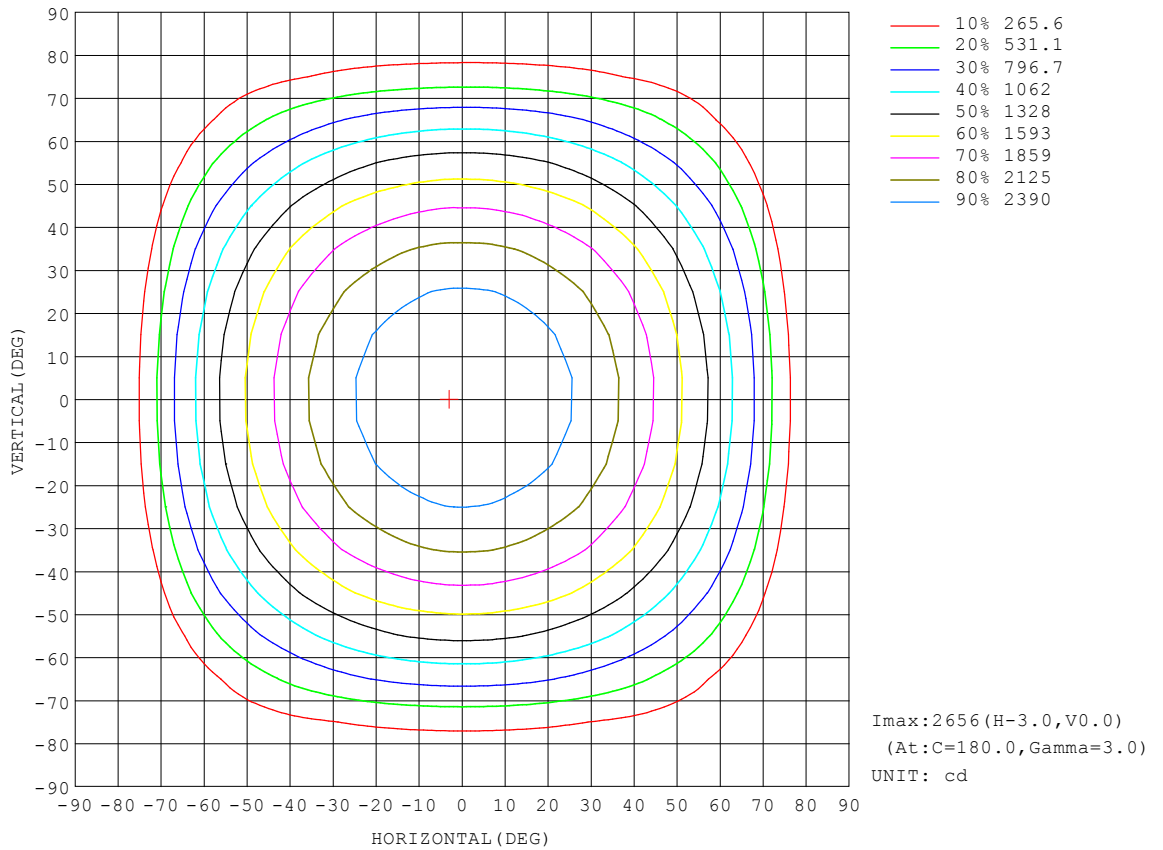
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	47	40	57	46	40	56	46	40	33
0.80	69	57	50	67	57	50	66	56	49	42
1.00	77	66	59	76	66	59	74	67	58	51
1.25	84	74	67	83	74	67	80	72	66	59
1.50	89	80	73	88	79	73	85	77	72	64
2.00	96	88	82	94	87	81	91	85	80	72
2.50	100	93	87	98	91	86	94	89	84	76
3.00	103	97	92	101	95	91	97	93	89	80
4.00	107	102	98	105	100	96	101	97	94	85
5.00	110	105	101	107	103	100	103	100	97	88
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2018-12-19

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.265
 Humidity: 65.0%
 Test Distance: 12.300m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

NAME: LEDFLOOD100W4K	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

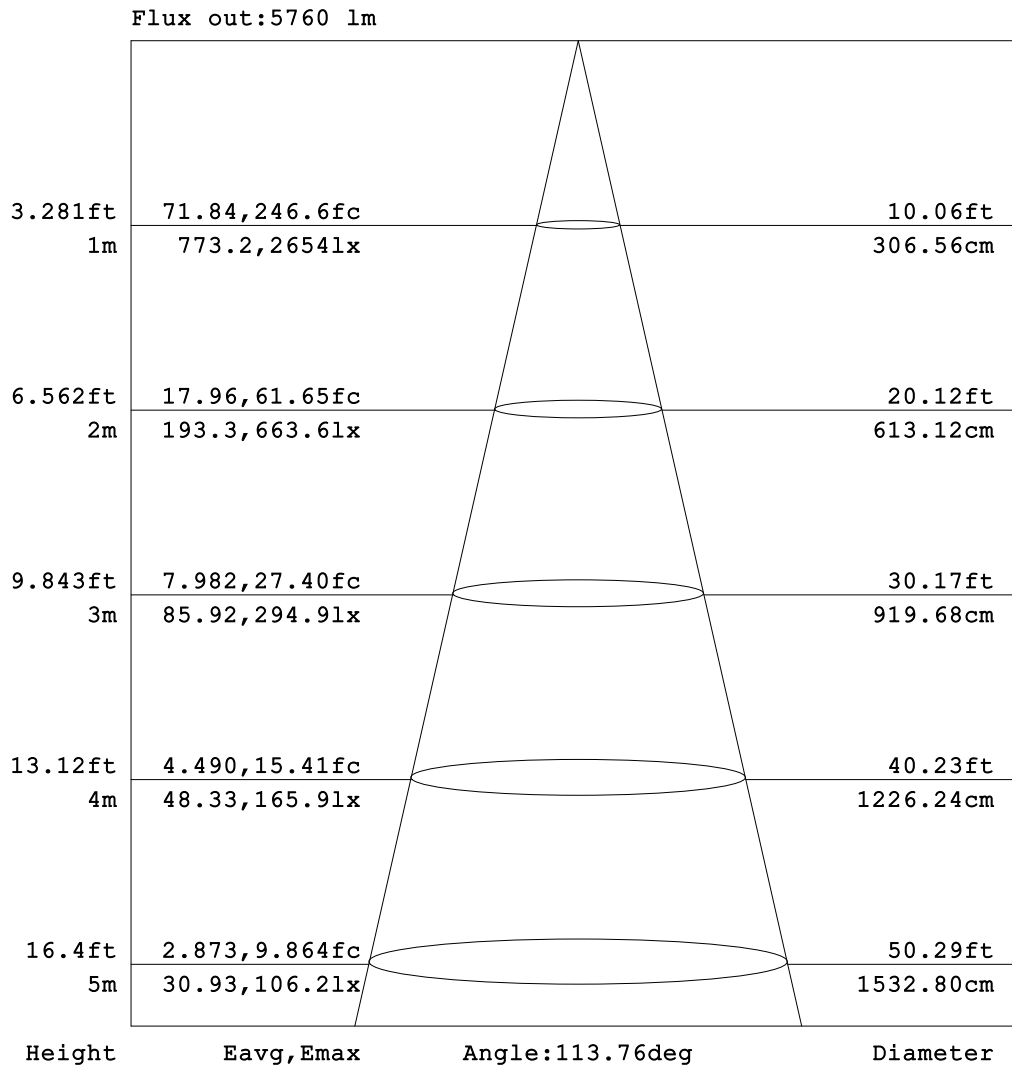


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2018-12-19

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity: 65.0%
Test Distance: 12.300m [K=1.0000]
Remarks:

AAI Figure

NAME: LEDFLOOD100W4K	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:



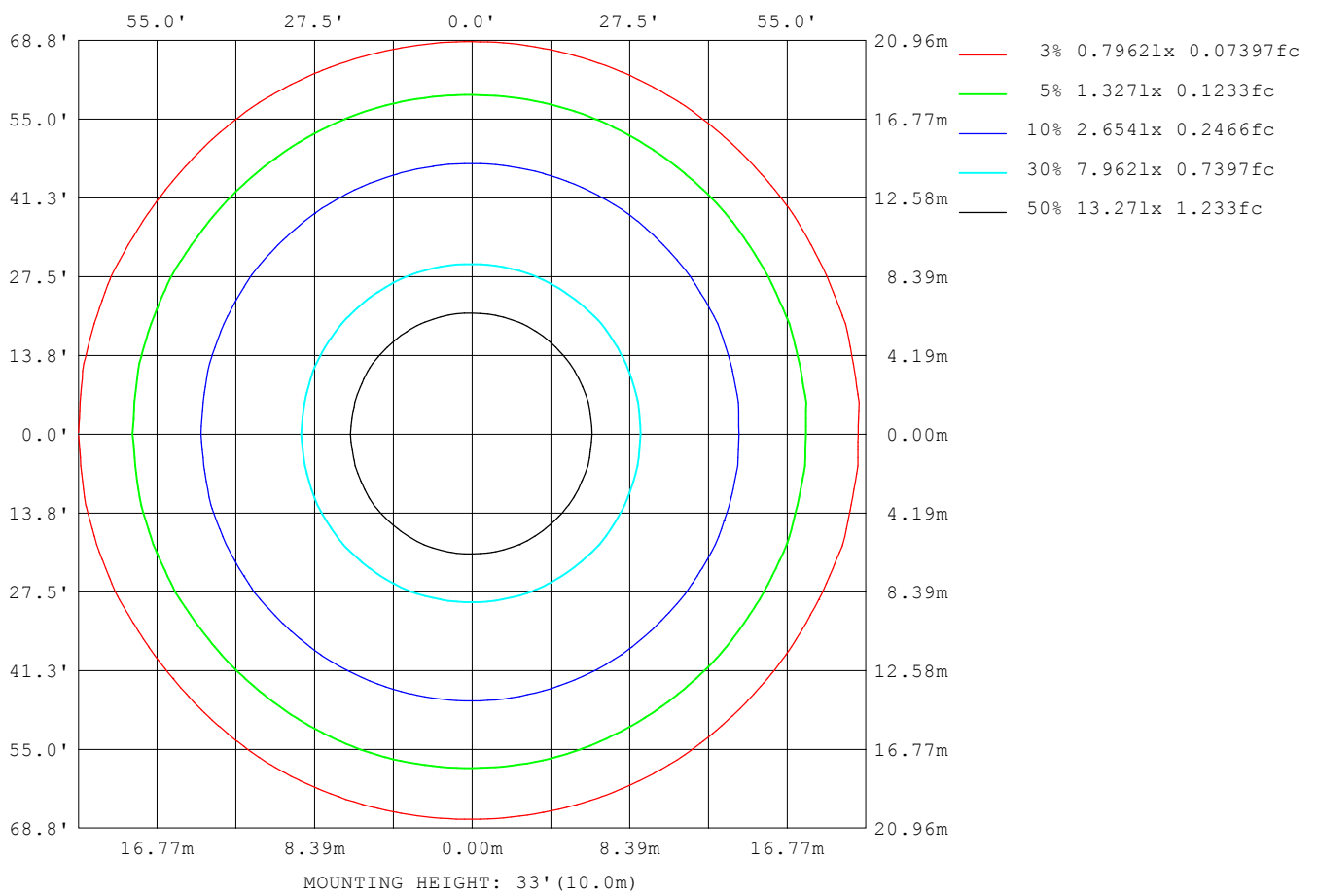
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2018-12-19

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity: 65.0%
Test Distance: 12.300m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

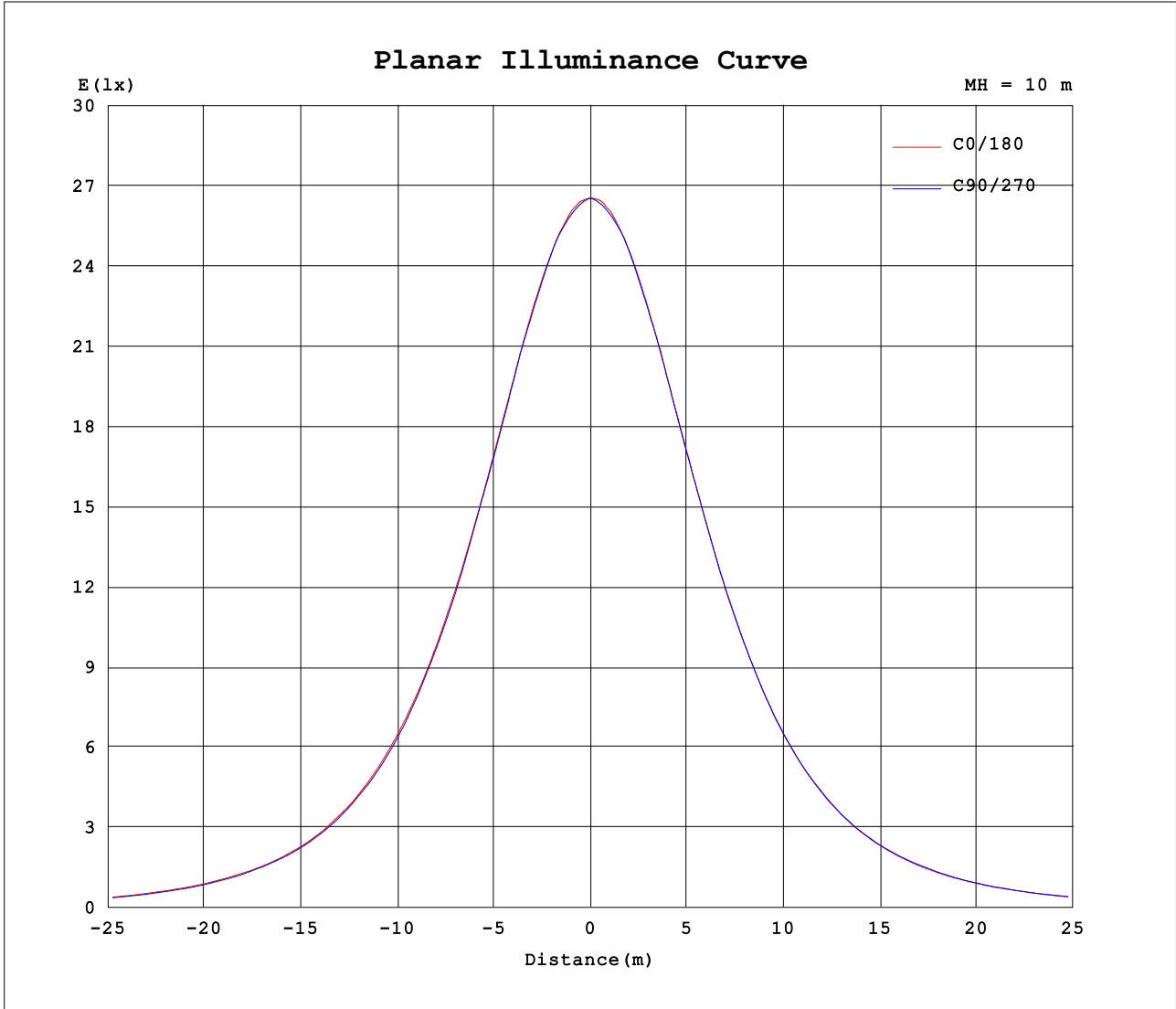
NAME: LEDFLOOD100W4K	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2018-12-19

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.265
 Humidity: 65.0%
 Test Distance: 12.300m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2018-12-19

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
 Humidity:65.0%
 Test Distance:12.300m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: LEDFLOOD100W4K	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

Table--3

UNIT: cd

C (DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	2654	2654	2654	2654	2654	2654	2654	2654	2654	2654	2654	2654	2654	2654	2654	2654	2654	2654	2654
5	2645	2644	2643	2643	2642	2642	2641	2641	2641	2640	2640	2639	2639	2638	2638	2638	2638	2637	2637
10	2612	2610	2610	2610	2609	2609	2610	2612	2614	2615	2617	2617	2618	2619	2620	2621	2621	2619	2619
15	2564	2561	2560	2561	2563	2564	2566	2566	2566	2565	2565	2565	2565	2565	2564	2564	2564	2562	2563
20	2491	2491	2494	2498	2500	2498	2495	2496	2496	2497	2499	2503	2505	2507	2508	2507	2508	2505	2504
25	2403	2405	2409	2410	2407	2406	2412	2416	2422	2421	2415	2412	2413	2412	2412	2411	2410	2409	2409
30	2295	2297	2301	2300	2303	2309	2314	2308	2306	2304	2305	2305	2307	2311	2313	2314	2312	2311	2312
35	2167	2173	2171	2174	2184	2181	2178	2177	2179	2185	2180	2177	2174	2174	2175	2173	2171	2170	2172
40	2018	2021	2023	2036	2031	2027	2029	2032	2028	2026	2025	2026	2028	2029	2032	2032	2030	2030	2028
45	1845	1847	1860	1857	1856	1862	1854	1853	1858	1863	1861	1853	1851	1847	1846	1847	1843	1845	1844
50	1644	1652	1659	1656	1662	1660	1664	1668	1661	1657	1653	1653	1652	1656	1656	1660	1657	1660	1656
55	1427	1443	1435	1439	1437	1448	1442	1437	1436	1440	1439	1441	1438	1439	1439	1441	1438	1440	1437
60	1198	1201	1200	1199	1204	1195	1195	1199	1200	1203	1207	1212	1215	1216	1220	1221	1218	1218	1217
65	958	951	949	951	943	943	945	951	958	965	963	962	961	959	958	959	958	959	959
70	651	659	670	677	679	690	698	695	694	693	693	693	693	694	693	695	697	700	698
75	314	333	344	370	389	407	414	424	427	422	418	412	406	400	395	393	393	396	399
80	75.0	85.6	100	111	119	147	167	169	161	149	139	126	114	104	96.0	91.3	89.9	91.8	96.8
85	4.15	4.80	5.59	11.3	6.00	6.42	8.93	11.1	11.8	11.4	9.94	7.55	5.06	2.93	1.33	0.34	0.00	0.34	1.35
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2018-12-19

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:12.300m [K=1.0000]
Remarks:

