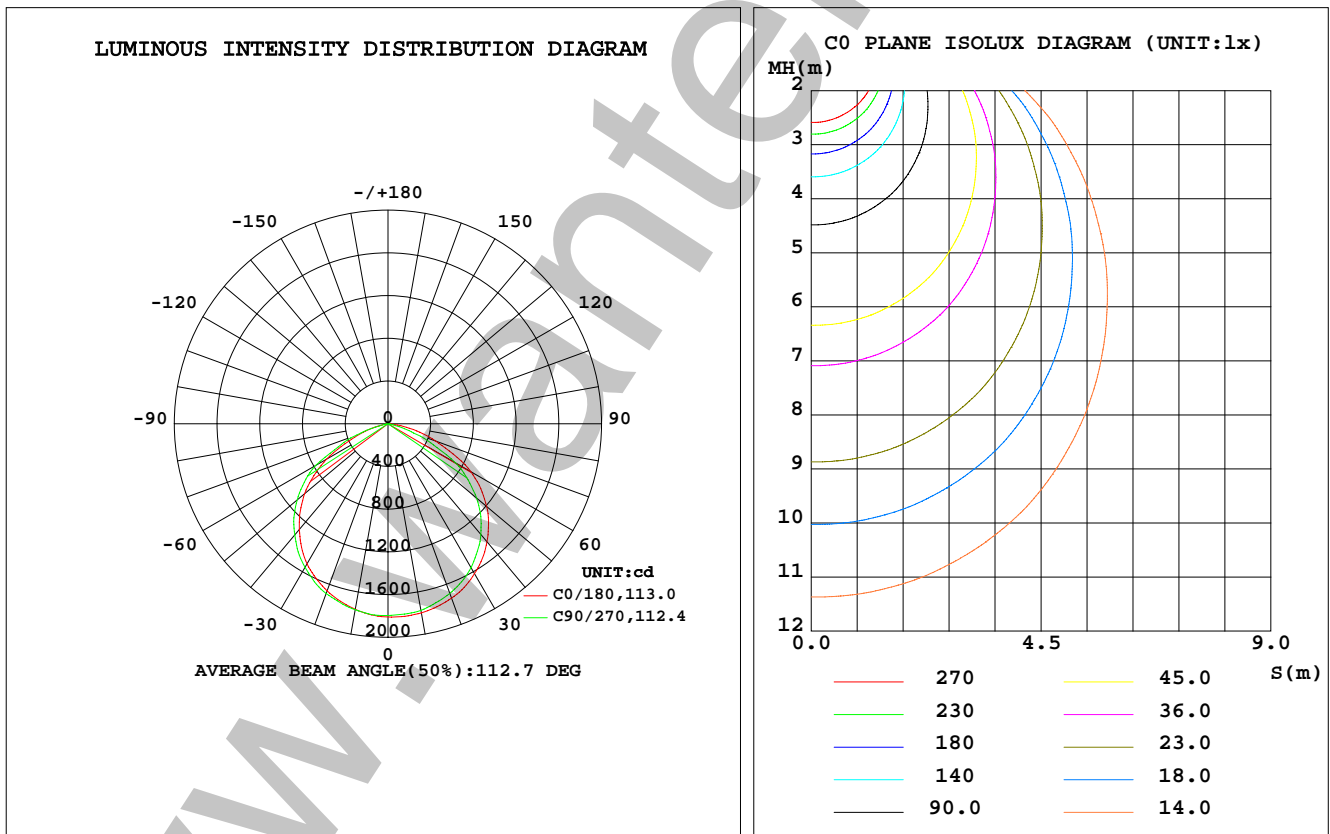


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: Floodlight-50W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 97.95 lm/W			
MODEL		I <sub>max</sub> (cd)	1810	S/MH(C0/180)	1.24
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	4891.7	η UP, DN(C0-180)	0.3,51.8
NOMINAL FLUX(lm)	4891.71	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.3,47.7
LAMPS INSIDE	1	η up(%)	0.5	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230.0	η down(%)	99.5	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:12 April 2019

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity:65.0%  
 Test Distance:9.540m [K=1.0000]  
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

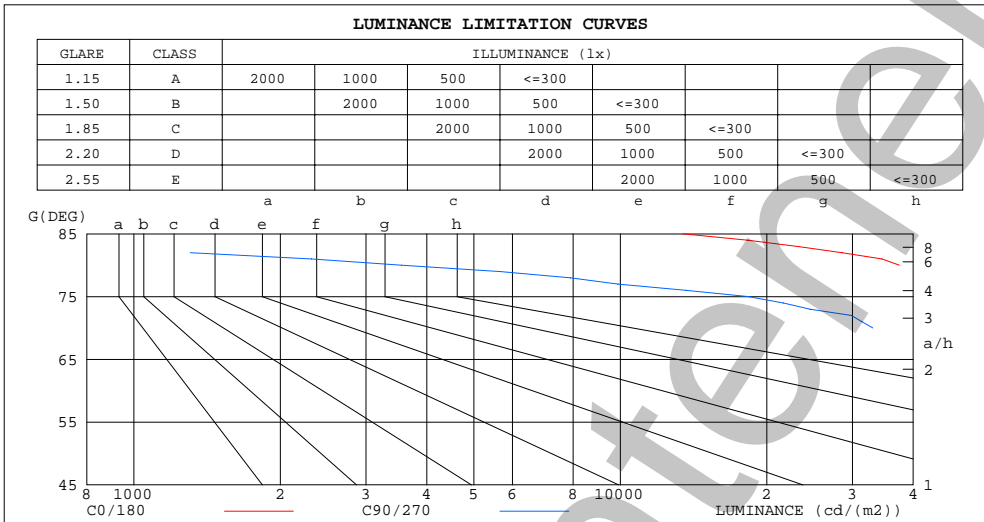
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	lum, lamp
10	1798	1775	1764	1769					0- 10	170.8	170.8	3.49,3.49
20	1738	1691	1666	1692					10- 20	491.9	662.7	13.5,13.5
30	1621	1555	1516	1553					20- 30	754.6	1417	29,29
40	1443	1352	1292	1359					30- 40	918.7	2336	47.8,47.8
50	1206	1085	1020	1111					40- 50	956.6	3293	67.3,67.3
60	894.4	728.1	666.1	781.7					50- 60	843.0	4136	84.5,84.5
70	475.6	256.5	277.1	314.5					60- 70	532.2	4668	95.4,95.4
80	147.6	13.99	23.94	18.96					70- 80	183.6	4852	99.2,99.2
90	0.2385	0.1819	0.4229	0.2000					80- 90	15.27	4867	99.5,99.5
100	0.8436	0.9664	1.329	0.7487					90-100	0.6732	4867	99.5,99.5
110	2.128	2.487	2.759	1.936					100-110	1.695	4869	99.5,99.5
120	3.691	4.153	4.286	3.474					110-120	3.086	4872	99.6,99.6
130	5.170	5.607	5.528	4.862					120-130	4.133	4876	99.7,99.7
140	6.335	6.735	6.425	5.860					130-140	4.517	4881	99.8,99.8
150	7.258	7.610	7.079	6.655					140-150	4.210	4885	99.9,99.9
160	7.965	8.231	7.755	7.494					150-160	3.473	4889	99.9,99.9
170	8.435	8.653	8.792	8.508					160-170	2.313	4891	100,100
180	8.925	8.876	8.949	8.804					170-180	0.8313	4892	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:12 April 2019

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity:65.0%  
 Test Distance:9.540m [K=1.0000]  
 Remarks:

LUMINANCE LIMITATION CURVES

NAME: Floodlight-50W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	13444	304
80	37457	3548
75	52732	18309
70	61263	33036
65	70143	49054
60	78806	64153
55	81554	70250
50	82650	74332
45	82972	76634

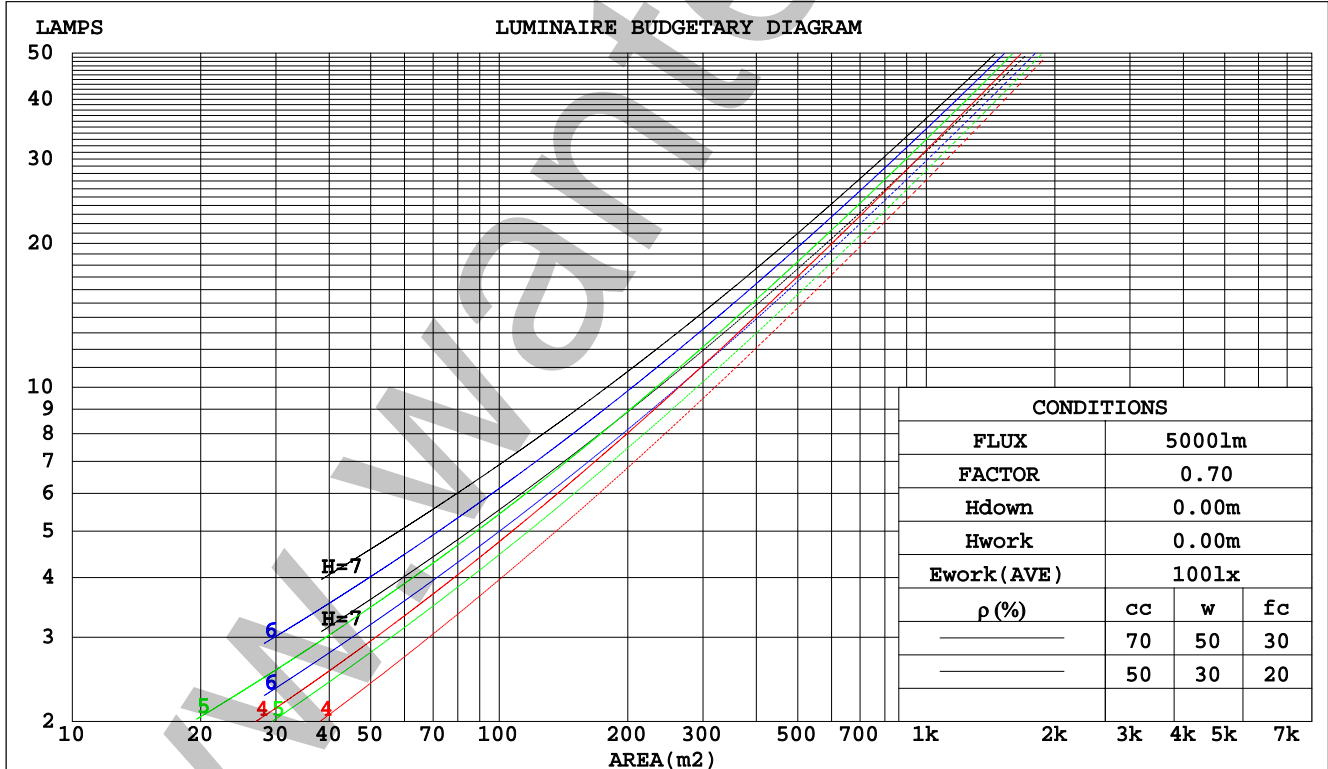
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 12 April 2019

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity: 65.0%  
 Test Distance: 9.540m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: Floodlight-50W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0		
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0		
pw	0																	
pfc	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	.99		
1.0	1.06	1.02	.98	1.03	.90	.97	.99	.96	.94	.95	.93	.91	.91	.90	.88	.86		
2.0	.93	.87	.81	.91	.85	.80	.87	.82	.78	.84	.80	.76	.81	.78	.75	.73		
3.0	.82	.74	.68	.80	.73	.67	.77	.71	.66	.75	.69	.65	.72	.68	.64	.62		
4.0	.73	.64	.58	.71	.64	.57	.69	.62	.57	.67	.61	.56	.64	.59	.55	.53		
5.0	.65	.56	.50	.64	.56	.50	.62	.55	.49	.60	.53	.49	.58	.52	.48	.46		
6.0	.59	.50	.44	.58	.49	.43	.56	.48	.43	.54	.48	.43	.52	.47	.42	.40		
7.0	.53	.45	.39	.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	.40	.35	.30	.28		
10.0	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.28	.38	.32	.27	.26		



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 12 April 2019

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity: 65.0%  
 Test Distance: 9.540m [K=1.0000]  
 Remarks:

WEC AND CCEC

NAME: Floodlight-50W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.275	.156	.049	.268	.153	.048	.254	.146	.047	.242	.140	.045	.231	.134	.043	
2.0	.268	.147	.045	.261	.144	.044	.250	.139	.043	.239	.134	.042	.229	.129	.041	
3.0	.253	.135	.040	.247	.132	.040	.237	.128	.039	.227	.125	.038	.218	.121	.037	
4.0	.237	.123	.036	.232	.121	.036	.223	.118	.035	.214	.115	.035	.206	.112	.034	
5.0	.221	.113	.033	.217	.111	.032	.208	.109	.032	.201	.106	.032	.194	.103	.031	
6.0	.206	.103	.030	.203	.102	.029	.195	.100	.029	.188	.098	.029	.182	.096	.028	
7.0	.193	.096	.027	.190	.095	.027	.183	.093	.027	.177	.091	.026	.171	.089	.026	
8.0	.181	.089	.025	.178	.088	.025	.172	.086	.025	.167	.084	.024	.161	.083	.024	
9.0	.170	.082	.023	.168	.082	.023	.162	.080	.023	.157	.079	.023	.153	.077	.022	
10.0	.161	.077	.021	.158	.076	.021	.153	.075	.021	.149	.074	.021	.144	.073	.021	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.194	.194	.194	.166	.166	.166	.113	.113	.113	.065	.065	.065	.021	.021	.021	
1.0	.182	.160	.141	.156	.138	.121	.106	.095	.084	.061	.055	.049	.020	.018	.016	
2.0	.173	.136	.105	.148	.117	.091	.102	.081	.063	.059	.047	.037	.019	.015	.012	
3.0	.165	.118	.081	.142	.102	.070	.097	.071	.049	.056	.041	.029	.018	.013	.009	
4.0	.158	.105	.064	.135	.090	.056	.093	.063	.039	.054	.037	.023	.017	.012	.008	
5.0	.151	.094	.053	.129	.082	.046	.089	.057	.032	.052	.033	.019	.017	.011	.006	
6.0	.144	.086	.044	.124	.074	.038	.085	.052	.027	.049	.031	.016	.016	.010	.005	
7.0	.137	.079	.038	.118	.068	.033	.082	.048	.023	.047	.028	.014	.015	.009	.005	
8.0	.131	.073	.033	.113	.063	.029	.078	.045	.021	.045	.026	.012	.015	.009	.004	
9.0	.125	.068	.030	.108	.059	.026	.075	.042	.018	.044	.025	.011	.014	.008	.004	
10.0	.120	.064	.027	.103	.056	.023	.072	.039	.017	.042	.023	.010	.014	.008	.003	

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 12 April 2019

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity: 65.0%  
 Test Distance: 9.540m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

NAME: Floodlight-50W		TYPE:					WEIGHT:				
SPEC.:		DIM.:					SERIAL No.:				
MFR.: EVERFINE		SUR.:					Shielding 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	28.5	29.9	28.7	30.1	30.3	27.8	29.2	28.0	29.4	29.6	
3H	29.7	31.0	30.0	31.2	31.5	28.5	29.8	28.8	30.1	30.3	
4H	30.1	31.3	30.4	31.6	31.8	28.5	29.8	28.9	30.1	30.3	
6H	30.3	31.4	30.6	31.7	32.0	28.5	29.7	28.8	29.9	30.2	
8H	30.3	31.4	30.6	31.7	32.0	28.4	29.6	28.8	29.8	30.1	
12H	30.2	31.3	30.6	31.6	31.9	28.4	29.5	28.7	29.8	30.1	
4H 2H	28.9	30.1	29.2	30.4	30.7	28.3	29.6	28.6	29.8	30.1	
3H	30.2	31.3	30.5	31.6	31.9	29.1	30.2	29.5	30.5	30.9	
4H	30.7	31.7	31.0	32.0	32.3	29.3	30.3	29.7	30.6	30.9	
6H	30.9	31.8	31.3	32.2	32.5	29.2	30.1	29.6	30.5	30.8	
8H	31.0	31.8	31.4	32.2	32.6	29.2	30.0	29.6	30.4	30.8	
12H	31.0	31.7	31.4	32.1	32.5	29.1	29.9	29.6	30.3	30.7	
8H 4H	30.7	31.5	31.1	31.9	32.3	29.4	30.2	29.8	30.6	31.0	
6H	31.0	31.7	31.5	32.1	32.5	29.4	30.0	29.8	30.5	30.9	
8H	31.1	31.7	31.5	32.1	32.6	29.3	29.9	29.8	30.4	30.8	
12H	31.1	31.6	31.6	32.0	32.5	29.3	29.8	29.8	30.3	30.8	
12H 4H	30.7	31.4	31.1	31.8	32.2	29.4	30.1	29.8	30.5	30.9	
6H	31.0	31.6	31.5	32.0	32.5	29.4	30.0	29.8	30.4	30.8	
8H	31.1	31.6	31.5	32.0	32.5	29.3	29.8	29.8	30.3	30.8	
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.3					+ 0.3 / - 0.4					
1.5H	+ 0.3 / - 0.4					+ 0.4 / - 0.8					
2.0H	+ 0.4 / - 0.5					+ 0.4 / - 0.6					

CIE Pub.117 Corrected 4892 lm Total Lamp Luminous Flux.(8log(F/F0) = 5.5)

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 12 April 2019

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity: 65.0%  
 Test Distance: 9.540m [K=1.0000]  
 Remarks:

UTILIZATION FACTORS TABLE

NAME: Floodlight-50W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

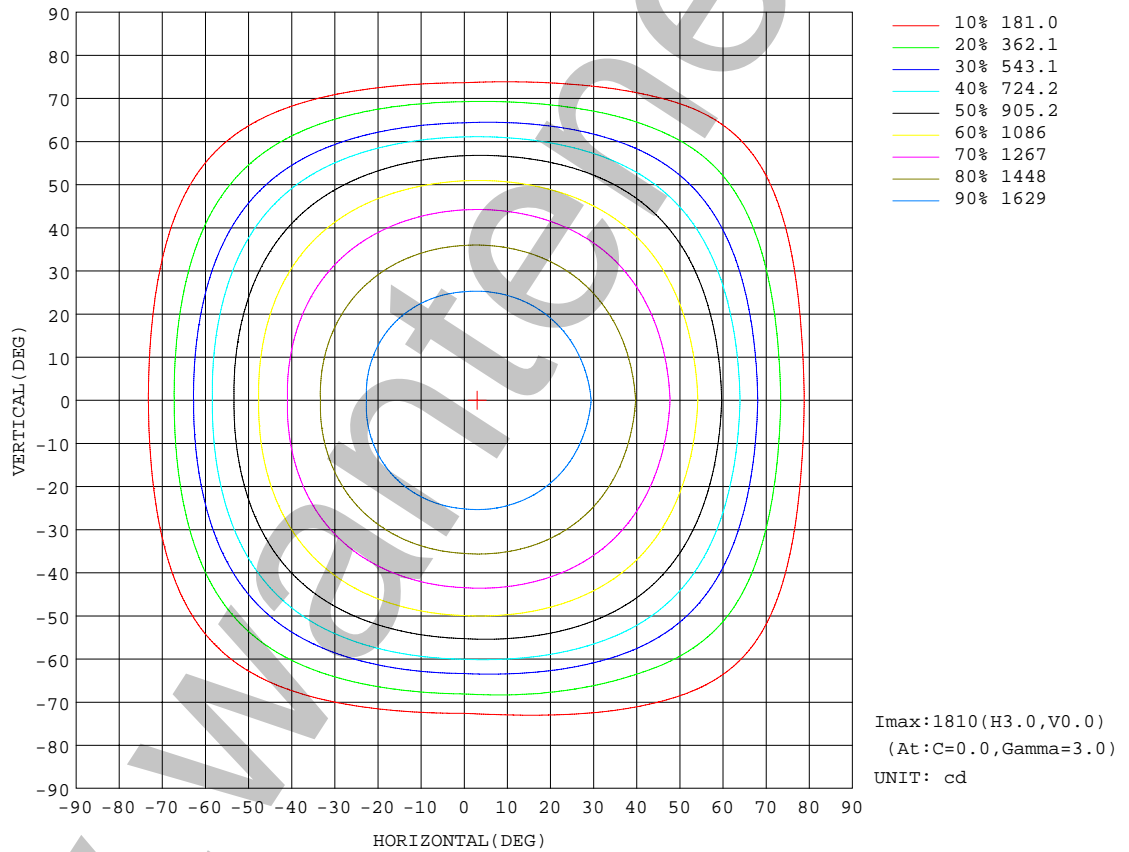
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	59	47	41	58	47	41	57	47	40	34
0.80	69	58	51	68	58	51	67	57	50	44
1.00	78	68	61	77	67	60	75	68	60	53
1.25	85	76	69	84	75	68	81	73	68	61
1.50	90	81	75	89	80	74	86	78	73	66
2.00	97	89	83	95	88	83	92	86	81	73
2.50	101	94	88	99	92	87	95	90	85	77
3.00	104	98	93	102	96	92	98	93	89	81
4.00	108	103	98	105	101	97	101	97	94	85
5.00	110	105	102	107	104	100	103	100	97	88
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 12 April 2019

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity: 65.0%  
 Test Distance: 9.540m [K=1.0000]  
 Remarks:

**ISOCANDELA DIAGRAM**

NAME: Floodlight-50W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 12 April 2019

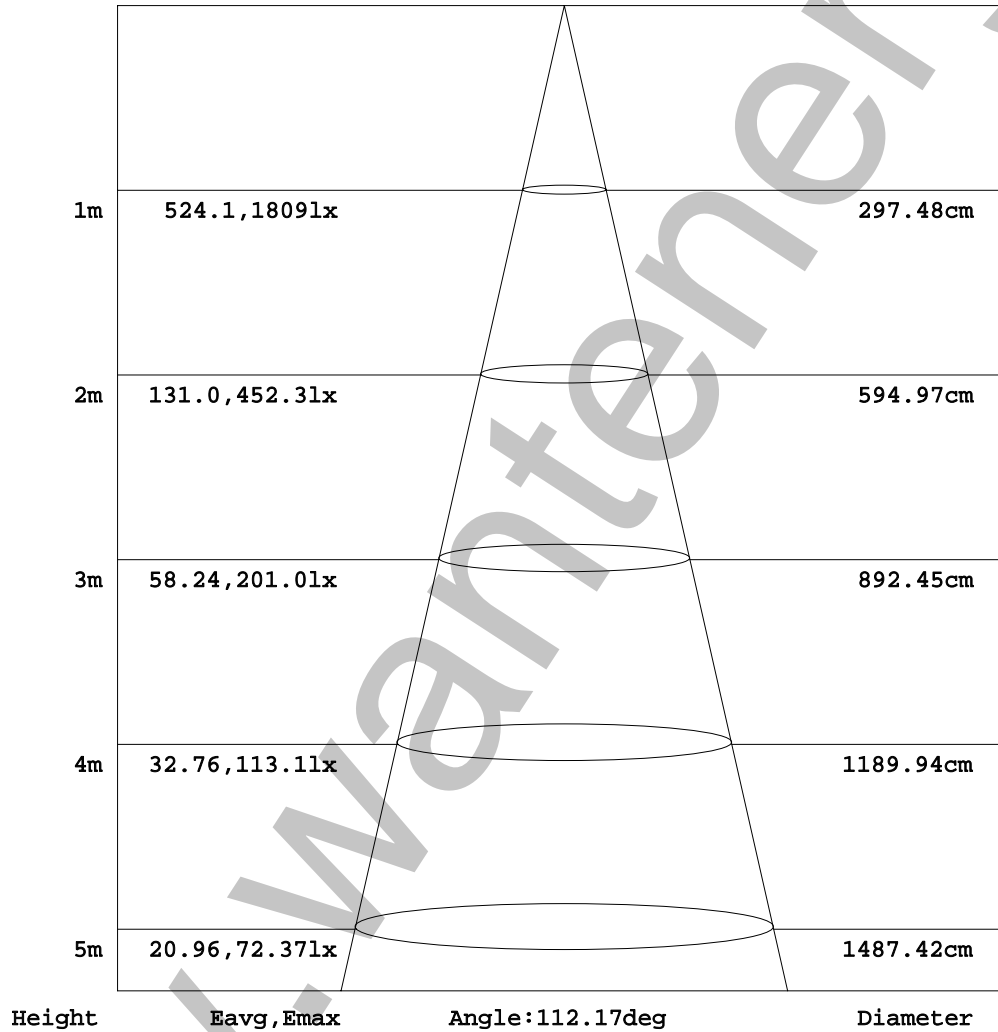
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity: 65.0%  
 Test Distance: 9.540m [K=1.0000]  
 Remarks:



**AAI Figure**

NAME: Floodlight-50W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Flux out:3904 lm



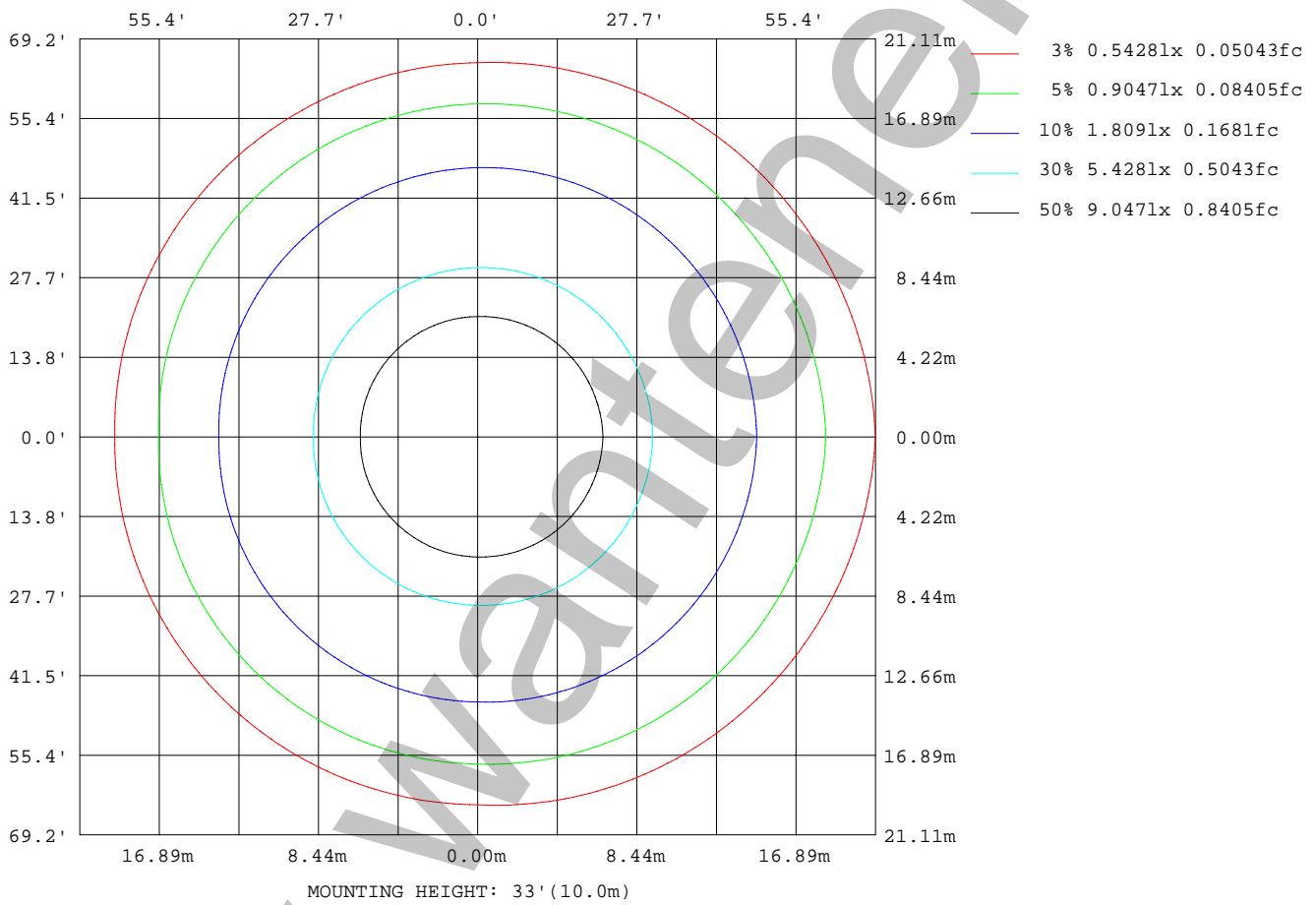
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 12 April 2019

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity: 65.0%  
 Test Distance: 9.540m [K=1.0000]  
 Remarks:

**ISOLUX DIAGRAM**

NAME: Floodlight-50W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 12 April 2019

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity: 65.0%  
 Test Distance: 9.540m [K=1.0000]  
 Remarks:

LED Avg.L Report

NAME: Floodlight-50W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

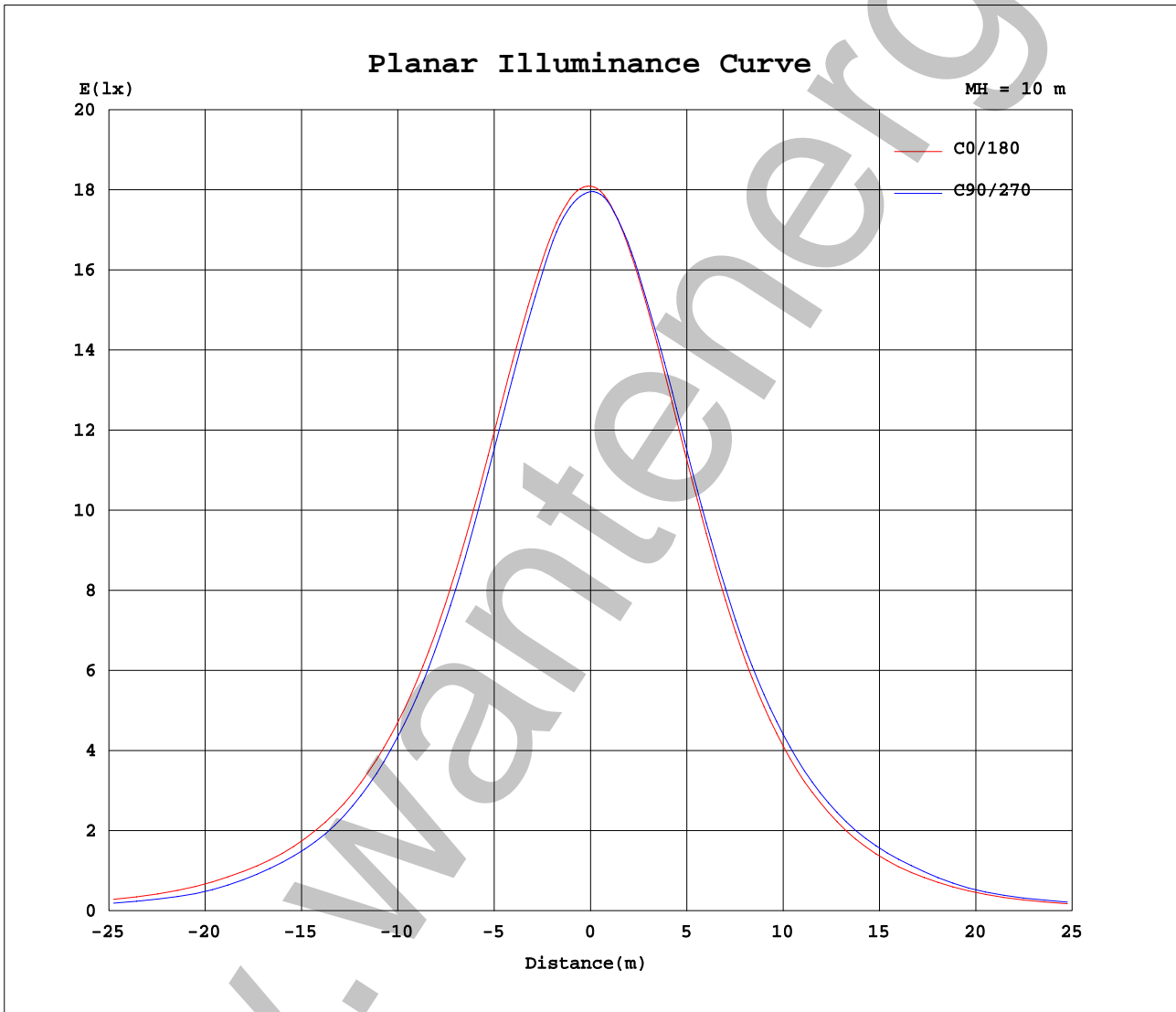
AvgL	cd/m2
L_0~180(65)av	58249
L_0~180(75)av	37114
L_0~180(85)av	6884
L_90~270(65)av	51333
L_90~270(75)av	19500
L_90~270(85)av	333
L_45(65)av	53183
L_45(75)av	25129
L_45(85)av	2626

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 12 April 2019

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity: 65.0%  
 Test Distance: 9.540m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 12 April 2019

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity: 65.0%  
 Test Distance: 9.540m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: Floodlight-50W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	90	180	270																
0	1809	1796	1809	1796																
5	1810	1788	1796	1793																
10	1798	1775	1764	1769																
15	1773	1736	1721	1733																
20	1738	1691	1666	1692																
25	1690	1632	1596	1632																
30	1621	1555	1516	1553																
35	1540	1458	1412	1467																
40	1443	1352	1292	1359																
45	1332	1230	1163	1246																
50	1206	1085	1020	1111																
55	1062	915	847	958																
60	894	728	666	782																
65	673	471	445	514																
70	476	256	277	314																
75	310	108	126	122																
80	148	14.0	23.9	19.0																
85	26.6	0.60	0.64	0.72																
90	0.24	0.18	0.42	0.20																
95	0.43	0.59	0.79	0.79																
100	0.84	0.97	1.33	0.75																
105	1.42	1.67	1.99	1.27																
110	2.13	2.49	2.76	1.94																
115	2.91	3.34	3.54	2.70																
120	3.69	4.15	4.29	3.47																
125	4.46	4.90	4.97	4.20																
130	5.17	5.61	5.53	4.86																
135	5.77	6.19	6.02	5.41																
140	6.33	6.74	6.43	5.86																
145	6.82	7.19	6.66	6.20																
150	7.26	7.61	7.08	6.66																
155	7.66	7.97	7.45	7.10																
160	7.96	8.23	7.76	7.49																
165	8.18	8.40	8.16	7.92																
170	8.44	8.65	8.79	8.51																
175	8.62	8.71	8.94	8.74																
180	8.92	8.88	8.95	8.80																

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 12 April 2019

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity: 65.0%  
 Test Distance: 9.540m [K=1.0000]  
 Remarks: