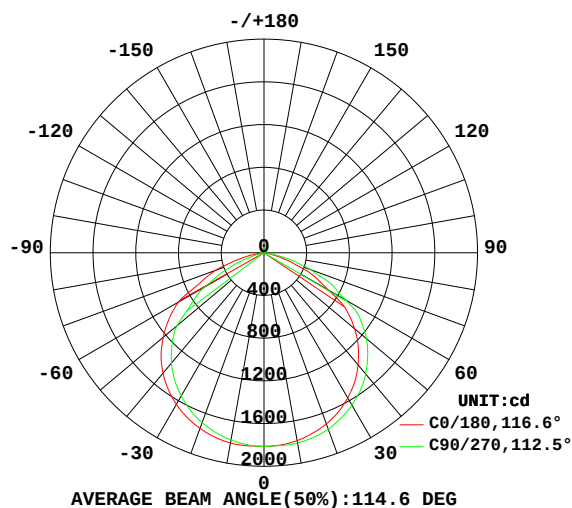


LUMINAIRE PHOTOMETRIC TEST REPORT

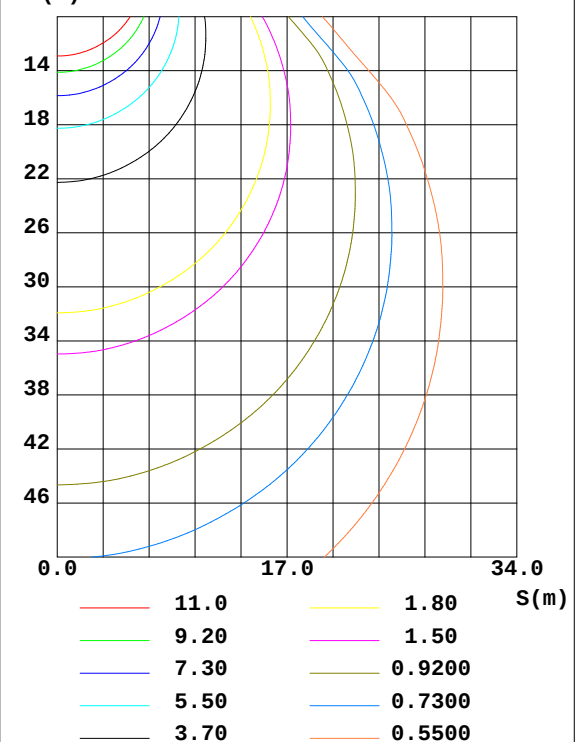
Test:U:230.5V I:0.4530A P:50.10W PF:0.4790 Lamp Flux:5210.81x1 lm		
NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 104.01 lm/W			
MODEL	50W泛光灯	I _{max} (cd)	1814	S/MH(C0/180)	1.29
NOMINAL POWER(W)	52	LOR(%)	100.0	S/MH(C90/270)	1.35
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	5210.8	η UP, DN(C0-180)	1.2, 49.2
NOMINAL FLUX(lm)	5210.81	CIE CLASS	DIRECT	η UP, DN(C180-360)	1.5, 48.0
LAMPS INSIDE	1	η up(%)	2.8	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230.5	η down(%)	97.2	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT: lx)



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2021-03-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.267
 Humidity: 65.0%
 Test Distance: 8.250m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	1786	1808	1809	1779					0- 10	172.3	172.3	3.31,3.31
20	1706	1757	1750	1694					10- 20	499.4	671.7	12.9,12.9
30	1569	1647	1640	1548					20- 30	770.6	1442	27.7,27.7
40	1371	1481	1471	1348					30- 40	949.4	2392	45.9,45.9
50	1108	1251	1231	1061					40- 50	1002	3394	65.1,65.1
60	689.7	882.2	926.1	638.1					50- 60	882.6	4277	82.1,82.1
70	298.8	466.4	483.8	221.5					60- 70	562.1	4839	92.9,92.9
80	28.07	73.47	103.9	20.13					70- 80	200.7	5039	96.7,96.7
90	11.29	11.95	13.77	14.08					80- 90	26.12	5065	97.2,97.2
100	13.93	12.46	16.30	18.16					90-100	14.90	5080	97.5,97.5
110	17.12	15.31	20.55	22.42					100-110	17.98	5098	97.8,97.8
120	20.25	18.59	24.65	26.23					110-120	20.48	5119	98.2,98.2
130	23.44	21.81	28.14	29.38					120-130	21.57	5140	98.6,98.6
140	27.00	25.16	31.36	32.33					130-140	21.12	5162	99.1,99.1
150	30.88	28.96	34.51	35.20					140-150	19.22	5181	99.4,99.4
160	34.94	33.34	37.50	37.77					150-160	15.76	5196	99.7,99.7
170	38.32	37.37	39.86	39.47					160-170	10.56	5207	99.9,99.9
180	40.03	40.17	40.85	39.51					170-180	3.759	5211	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		

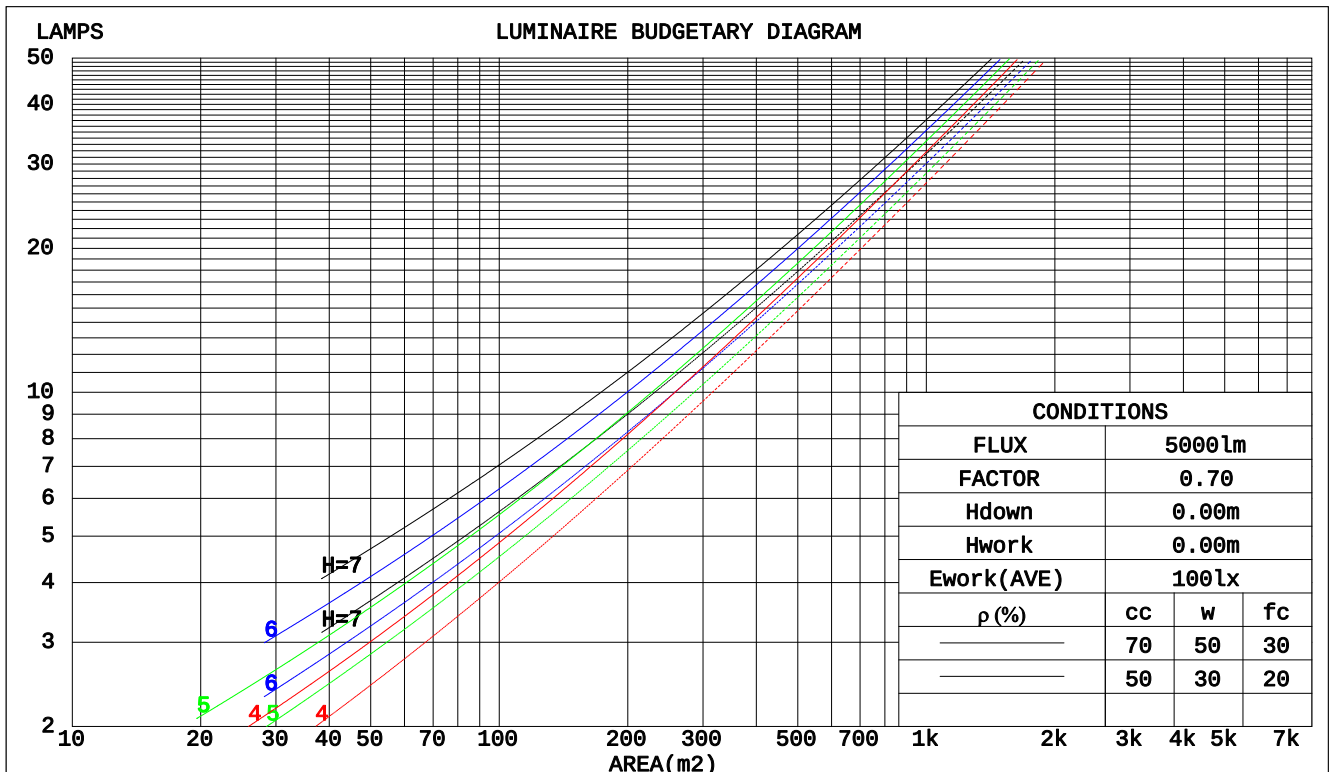
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2021-03-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.267
 Humidity:65.0%
 Test Distance:8.250m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.5V I:0.4530A P:50.10W PF:0.4790 Lamp Flux:5210.81x1 lm		
NAME:	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	1.18	1.18	1.18	1.15	1.15	1.15	1.10	1.10	1.10	1.04	1.04	1.04	.99	.99	.99	.97
1.0	1.05	1.01	.98	1.02	.99	.96	.98	.95	.92	.93	.91	.89	.89	.87	.86	.84
2.0	.92	.86	.80	.90	.84	.79	.86	.81	.77	.82	.78	.75	.79	.76	.73	.71
3.0	.81	.73	.67	.79	.72	.66	.76	.70	.65	.73	.68	.63	.70	.66	.62	.60
4.0	.72	.64	.57	.70	.63	.57	.68	.61	.55	.65	.59	.54	.63	.58	.53	.51
5.0	.64	.56	.49	.63	.55	.49	.61	.53	.48	.58	.52	.47	.56	.51	.46	.44
6.0	.58	.49	.43	.57	.49	.43	.55	.47	.42	.53	.46	.41	.51	.45	.41	.39
7.0	.52	.44	.38	.51	.43	.38	.50	.42	.37	.48	.42	.37	.46	.41	.36	.34
8.0	.48	.39	.34	.47	.39	.33	.45	.38	.33	.44	.37	.33	.43	.37	.32	.30
9.0	.44	.36	.30	.43	.35	.30	.42	.35	.30	.40	.34	.29	.39	.33	.29	.27
10.0	.40	.33	.27	.40	.32	.27	.39	.32	.27	.37	.31	.27	.36	.31	.26	.25



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2021-03-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.267
 Humidity: 65.0%
 Test Distance: 8.250m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:230.5V I:0.4530A P:50.10W PF:0.4790 Lamp Flux:5210.81x1 lm									
NAME:				TYPE:				WEIGHT:	
DIM.:				SPEC.:				SERIAL No.:	
MFR.: EVERFINE				SUR.:				PROTECTION 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	.278	.158	.050	.270	.154	.049	.256	.147	.047	.242	.140	.045	.230	.133	.043	
2.0	.270	.148	.045	.263	.145	.045	.250	.139	.043	.238	.133	.042	.227	.128	.040	
3.0	.254	.135	.041	.248	.133	.040	.237	.128	.039	.226	.124	.038	.216	.120	.037	
4.0	.238	.123	.036	.232	.121	.036	.222	.118	.035	.212	.114	.034	.203	.111	.034	
5.0	.222	.113	.033	.217	.111	.032	.208	.108	.032	.199	.105	.031	.191	.102	.031	
6.0	.207	.104	.030	.203	.102	.029	.194	.100	.029	.187	.097	.029	.179	.094	.028	
7.0	.194	.096	.027	.190	.094	.027	.182	.092	.027	.175	.090	.026	.169	.088	.026	
8.0	.181	.089	.025	.178	.088	.025	.171	.086	.024	.165	.084	.024	.159	.082	.024	
9.0	.171	.083	.023	.167	.082	.023	.161	.080	.023	.156	.078	.022	.150	.076	.022	
10.0	.161	.077	.021	.158	.076	.021	.152	.075	.021	.147	.073	.021	.142	.072	.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	.212	.212	.212	.181	.181	.181	.124	.124	.124	.071	.071	.071	.023	.023	.023	
1.0	.200	.178	.158	.171	.153	.136	.117	.105	.094	.067	.061	.055	.022	.020	.018	
2.0	.191	.154	.122	.163	.132	.106	.112	.091	.074	.065	.053	.043	.021	.017	.014	
3.0	.183	.136	.098	.157	.117	.085	.108	.081	.060	.062	.048	.035	.020	.015	.012	
4.0	.176	.123	.082	.151	.106	.071	.104	.074	.050	.060	.043	.030	.019	.014	.010	
5.0	.169	.112	.070	.145	.097	.061	.100	.068	.043	.058	.040	.026	.019	.013	.008	
6.0	.162	.104	.062	.139	.090	.054	.096	.063	.038	.056	.037	.023	.018	.012	.008	
7.0	.155	.097	.056	.134	.084	.049	.092	.059	.035	.054	.035	.021	.017	.011	.007	
8.0	.149	.091	.051	.128	.079	.045	.089	.056	.032	.052	.033	.019	.017	.011	.006	
9.0	.143	.086	.048	.124	.075	.042	.086	.053	.030	.050	.031	.018	.016	.010	.006	
10.0	.138	.082	.045	.119	.071	.039	.082	.050	.028	.048	.030	.017	.016	.010	.005	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2021-03-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.267
 Humidity: 65.0%
 Test Distance: 8.250m [K=1.0000]
 Remarks:

Uncorrected UGR Table

Test:U:230.5V I:0.4530A P:50.10W PF:0.4790 Lamp Flux:5210.81x1 lm											
NAME:					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	2H	29.9	31.3	30.2	31.6	31.8	30.5	31.9	30.8	32.2	32.4
	3H	30.7	32.0	31.0	32.3	32.6	31.6	33.0	32.0	33.2	33.5
	4H	30.8	32.0	31.1	32.3	32.7	31.9	33.2	32.3	33.5	33.8
	6H	30.7	31.9	31.1	32.2	32.6	32.0	33.1	32.3	33.4	33.8
	8H	30.7	31.8	31.1	32.1	32.5	31.9	33.0	32.3	33.4	33.7
	12H	30.6	31.7	31.0	32.1	32.4	31.9	32.9	32.3	33.3	33.7
4H	2H	30.4	31.6	30.8	31.9	32.3	30.9	32.2	31.3	32.5	32.8
	3H	31.3	32.4	31.7	32.8	33.1	32.2	33.2	32.5	33.6	33.9
	4H	31.5	32.5	31.9	32.8	33.2	32.5	33.5	32.9	33.8	34.2
	6H	31.5	32.3	31.9	32.7	33.1	32.6	33.4	33.0	33.8	34.2
	8H	31.4	32.2	31.9	32.6	33.1	32.5	33.3	33.0	33.7	34.2
	12H	31.4	32.1	31.8	32.5	33.0	32.5	33.2	33.0	33.7	34.1
8H	4H	31.5	32.3	32.0	32.8	33.2	32.5	33.3	32.9	33.7	34.1
	6H	31.5	32.2	32.0	32.6	33.1	32.6	33.2	33.1	33.7	34.2
	8H	31.5	32.1	32.0	32.6	33.1	32.6	33.1	33.1	33.6	34.1
	12H	31.5	32.0	32.0	32.5	33.0	32.6	33.0	33.1	33.5	34.1
12H	4H	31.5	32.2	32.0	32.7	33.1	32.5	33.2	32.9	33.6	34.1
	6H	31.5	32.1	32.0	32.6	33.1	32.5	33.1	33.0	33.6	34.1
	8H	31.5	32.0	32.0	32.5	33.0	32.5	33.0	33.1	33.5	34.1
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.3					
1.5H	+ 0.5 / - 0.6					+ 0.4 / - 0.5					
2.0H	+ 0.6 / - 0.9					+ 0.6 / - 0.6					

CIE Pub.117 Corrected 5211 lm Total Lamp Luminous Flux.(8log(F/F0) = 5.7)

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-03-13

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:8.250m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.5V I:0.4530A P:50.10W PF:0.4790 Lamp Flux:5210.81x1 lm		
NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

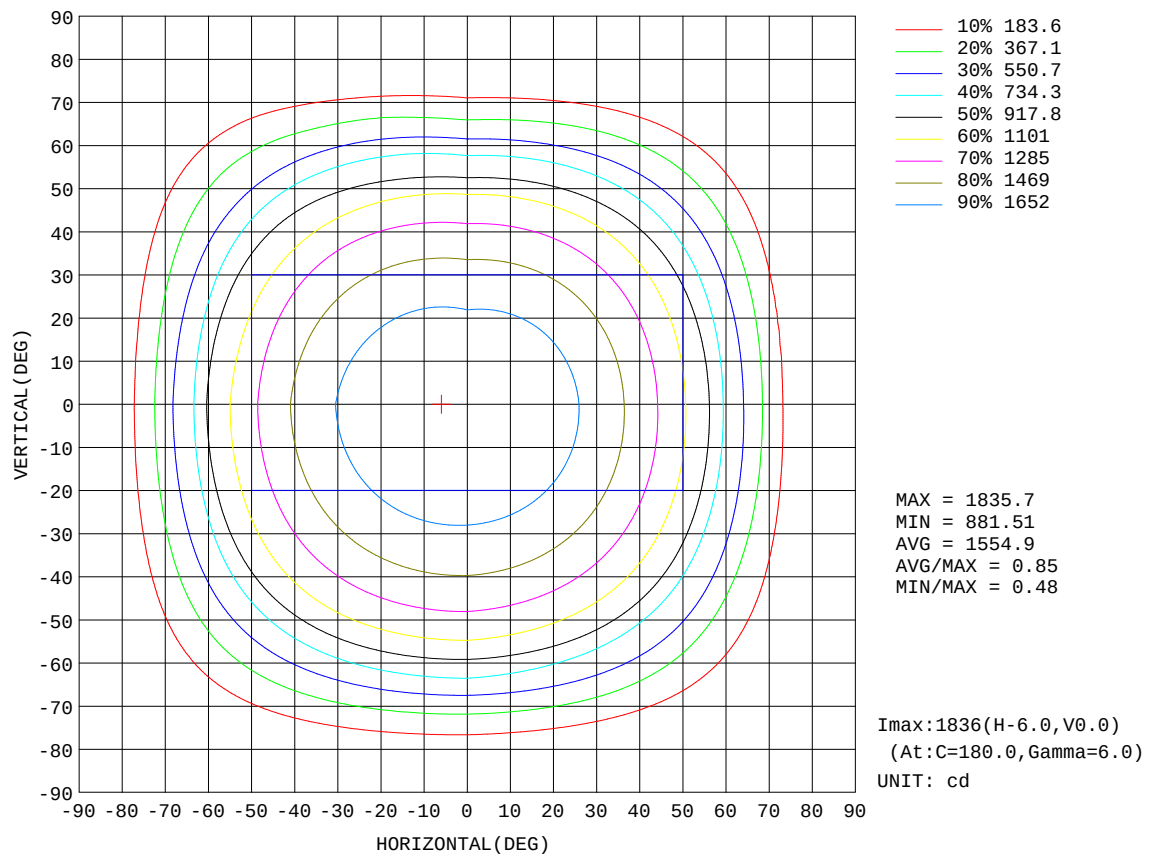
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	46	39	57	46	39	56	45	39	33
0.80	68	57	50	67	56	49	65	55	49	42
1.00	77	66	59	76	66	59	73	67	58	51
1.25	84	74	67	83	73	67	80	72	66	59
1.50	89	80	73	87	79	73	84	77	71	64
2.00	96	88	82	94	87	81	90	84	79	71
2.50	100	93	87	98	91	86	93	88	84	75
3.00	103	97	92	101	95	90	96	92	88	79
4.00	107	101	97	104	100	96	100	96	93	83
5.00	109	105	101	106	102	99	101	98	95	86
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-03-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:8.250m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:230.5V I:0.4530A P:50.10W PF:0.4790 Lamp Flux:5210.81x1 lm		
NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

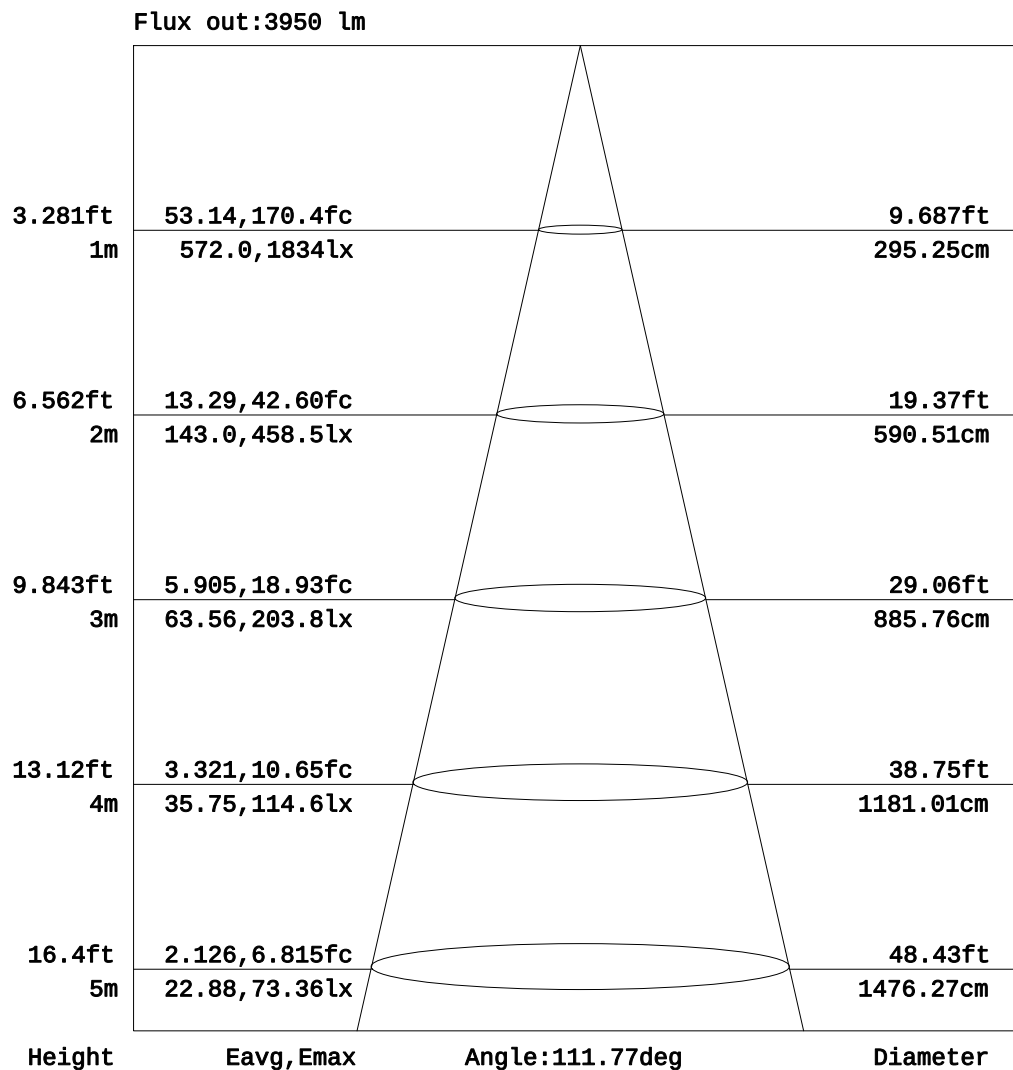


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-03-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:8.250m [K=1.0000]
Remarks:

AAI Figure

Test:U:230.5V I:0.4530A P:50.10W PF:0.4790 Lamp Flux:5210.81x1 lm		
NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:



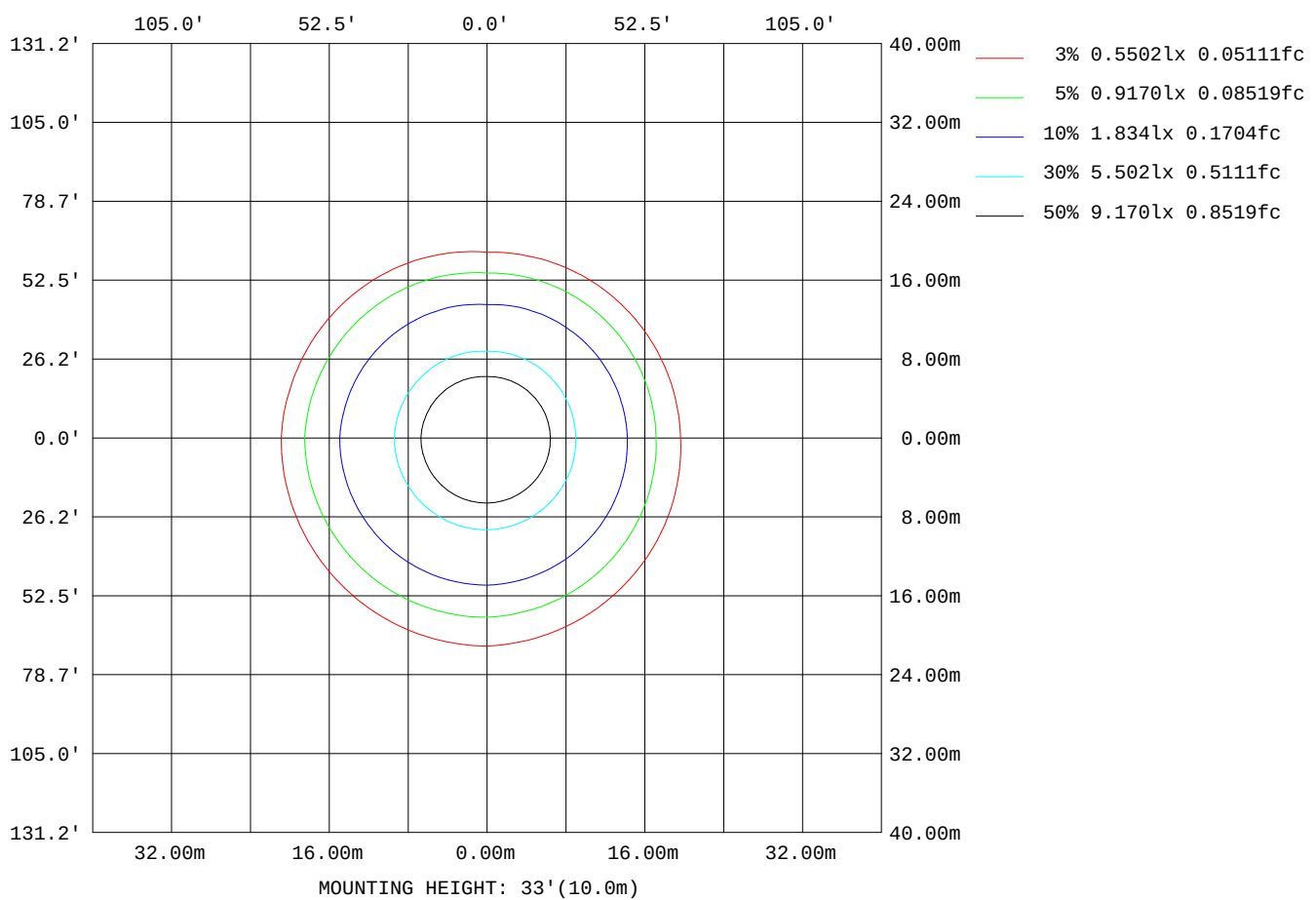
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-03-13

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:8.250m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

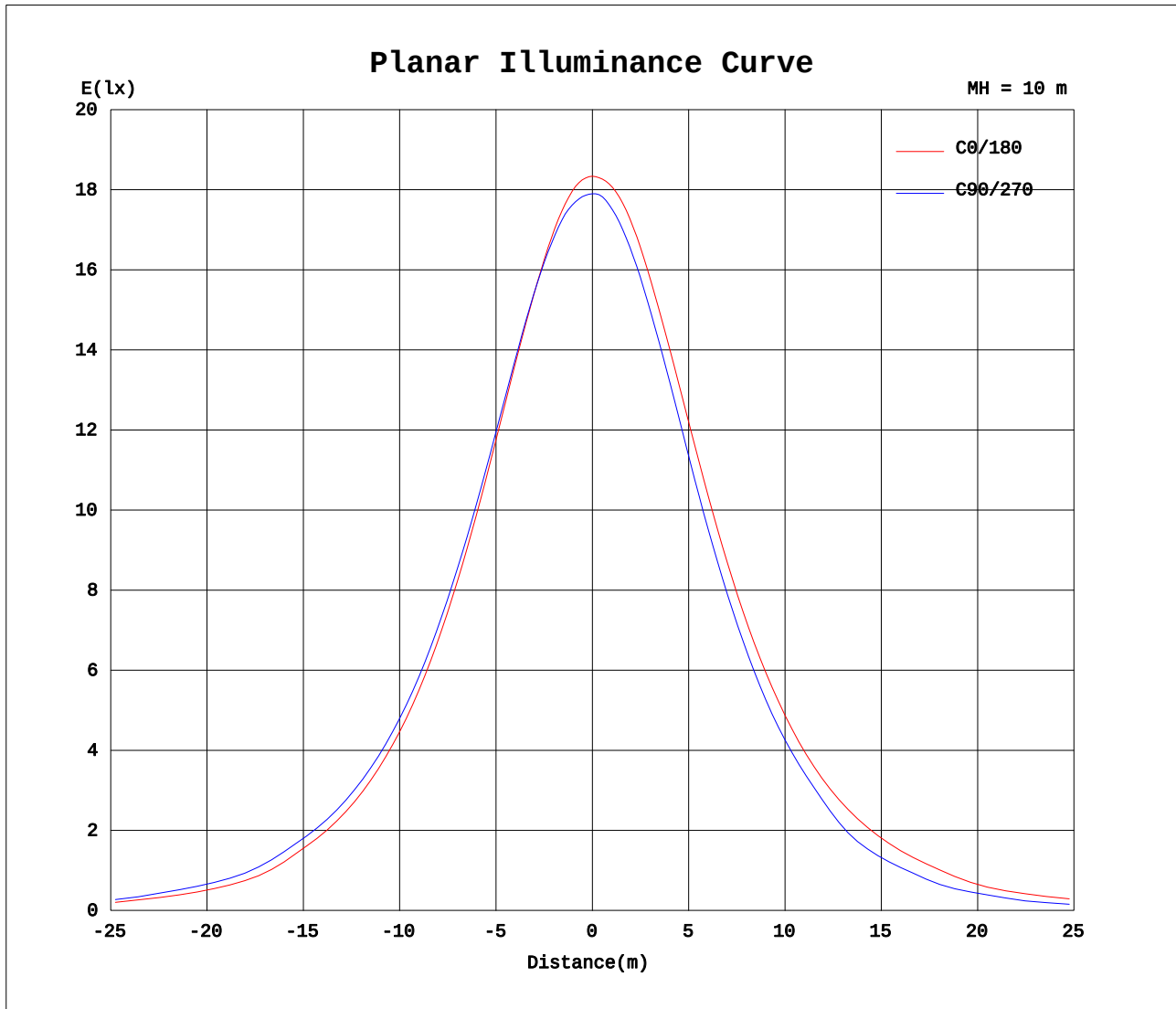
Test:U:230.5V I:0.4530A P:50.10W PF:0.4790 Lamp Flux:5210.81x1 lm		
NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2021-03-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.267
Humidity: 65.0%
Test Distance: 8.250m [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: 2021-03-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.267
Humidity: 65.0%
Test Distance: 8.250m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.5V I:0.4530A P:50.10W PF:0.4790 Lamp Flux:5210.81x1 lm					
NAME:			TYPE:		WEIGHT:
DIM.:			SPEC.:		SERIAL No.:
MFR.: EVERFINE			SUR.:		PROTECTION ANGLE:

Table--1

UNIT: cd

C(°)	0	90	180	270															
γ (°)	0	1812	1812	1812	1812														
5	1807	1812	1814	1804															
10	1786	1808	1809	1779															
15	1751	1790	1786	1743															
20	1706	1757	1750	1694															
25	1645	1709	1702	1630															
30	1569	1647	1640	1548															
35	1479	1573	1563	1456															
40	1371	1481	1471	1348															
45	1248	1374	1363	1220															
50	1108	1251	1231	1061															
55	947	1108	1088	825															
60	690	882	926	638															
65	513	696	650	426															
70	299	466	484	221															
75	136	259	273	58.5															
80	28.1	73.5	104	20.1															
85	12.6	26.1	24.6	13.2															
90	11.3	11.9	13.8	14.1															
95	12.6	11.3	14.3	16.1															
100	13.9	12.5	16.3	18.2															
105	15.4	13.8	18.4	20.3															
110	17.1	15.3	20.6	22.4															
115	18.6	16.9	22.7	24.4															
120	20.3	18.6	24.6	26.2															
125	21.8	20.2	26.5	27.9															
130	23.4	21.8	28.1	29.4															
135	25.1	23.5	29.8	30.9															
140	27.0	25.2	31.4	32.3															
145	28.9	27.0	33.0	33.8															
150	30.9	29.0	34.5	35.2															
155	32.9	31.1	36.0	36.5															
160	34.9	33.3	37.5	37.8															
165	36.8	35.5	38.8	38.8															
170	38.3	37.4	39.9	39.5															
175	39.4	39.0	40.6	39.8															
180	40.0	40.2	40.8	39.5															

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2021-03-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.267
 Humidity: 65.0%
 Test Distance: 8.250m [K=1.0000]
 Remarks: