

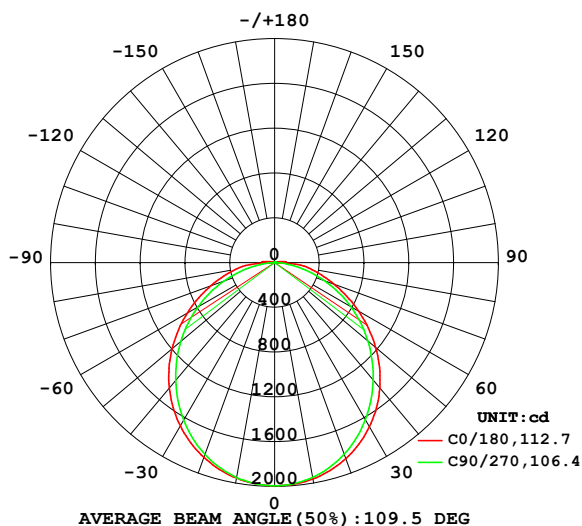
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

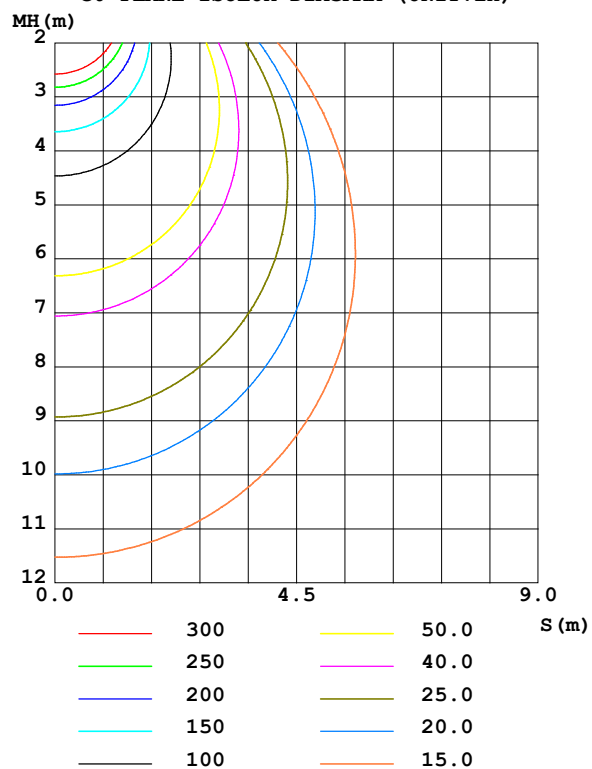
Test:U:119.85V I:0.3728A P:44.568W PF:0.9974 Freq:60.01Hz Lamp Flux:5671.46x1 lm		
NAME: LS-WP01-4WT-5CCT (MS)		
MFR.: EVERFINE		

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 127.25 lm/W
MODEL		I _{max} (cd)	1993	S/MH (C0/180)		1.26
NOMINAL POWER (W)	46	LOR (%)	100.0	S/MH (C90/270)		1.22
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	5671.5	η UP, DN (C0-180)		0.6,49.1
NOMINAL FLUX (lm)	5671.46	CIE CLASS	DIRECT	η UP, DN (C180-360)		0.6,49.7
LAMPS INSIDE	1	η up (%)	1.1	CIBSE SHR NOM		1.25
TEST VOLTAGE (V)	120	η down (%)	98.9	CIBSE SHR MAX		1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: DAMIN
Test Date: 2025-11-05

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity: 65.0%
Test Distance: 26.000m [K=1.2650]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1963	1953	1948	1952	1955	1954	1950	1957	0- 10	188.4	188.4	3.32,3.32
20	1863	1837	1820	1836	1851	1841	1823	1846	10- 20	537.6	726.0	12.8,12.8
30	1695	1654	1621	1654	1685	1660	1625	1667	20- 30	809.1	1535	27.1,27.1
40	1462	1410	1370	1421	1464	1424	1376	1429	30- 40	965.9	2501	44.1,44.1
50	1178	1123	1088	1146	1195	1149	1094	1149	40- 50	990.2	3491	61.6,61.6
60	867.3	813.9	785.7	846.8	900.3	849.0	791.4	842.5	50- 60	885.5	4377	77.2,77.2
70	565.4	505.4	472.5	543.0	605.2	539.3	477.6	529.9	60- 70	675.3	5052	89.1,89.1
80	325.0	240.7	178.0	276.3	356.7	265.3	181.3	264.0	70- 80	411.3	5463	96.3,96.3
90	1.882	1.110	0.4609	2.460	5.062	2.733	0.2867	0.7470	80- 90	144.1	5608	98.9,98.9
100	56.34	14.81	0.3841	21.80	60.67	14.48	0.7676	22.52	90-100	39.80	5647	99.6,99.6
110	9.572	2.405	1.152	2.826	9.795	1.706	1.613	1.986	100-110	11.65	5659	99.8,99.8
120	3.606	2.405	1.847	2.446	2.148	1.861	2.228	2.062	110-120	2.668	5662	99.8,99.8
130	2.839	2.637	2.074	2.521	2.080	2.715	2.765	2.521	120-130	2.194	5664	99.9,99.9
140	3.608	3.025	2.688	3.055	2.532	3.024	3.763	3.131	130-140	2.183	5666	99.9,99.9
150	3.836	3.956	2.842	3.593	2.688	3.489	4.148	3.361	140-150	2.047	5668	99.9,99.9
160	4.680	4.498	3.534	3.822	3.300	3.413	4.377	3.816	150-160	1.715	5670	100,100
170	4.909	5.352	4.379	4.277	4.297	4.189	4.686	4.353	160-170	1.220	5671	100,100
180	4.143	4.732	4.379	4.277	4.297	4.189	4.686	4.354	170-180	0.4300	5671	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

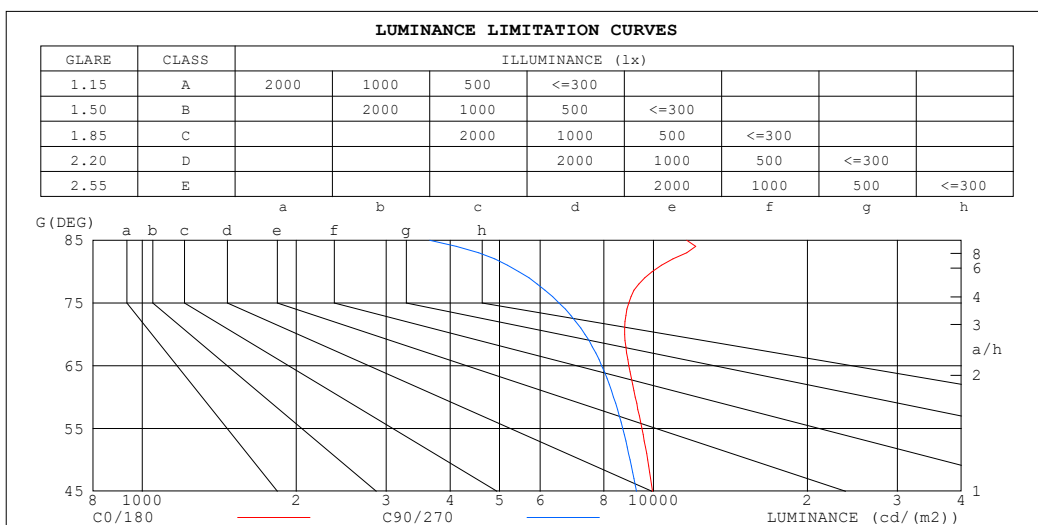
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-11-05

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2650]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINANCE LIMITATION CURVES

Test:U:119.85V I:0.3728A P:44.568W PF:0.9974 Freq:60.01Hz Lamp Flux:5671.46x1 lm		
NAME: LS-WP01-4WT-5CCT (MS)		
MFR.: EVERFINE		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	11618	3650
80	9943	5449
75	8942	6537
70	8782	7343
65	8953	7919
60	9215	8353
55	9490	8700
50	9738	8999
45	9960	9263

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-11-05

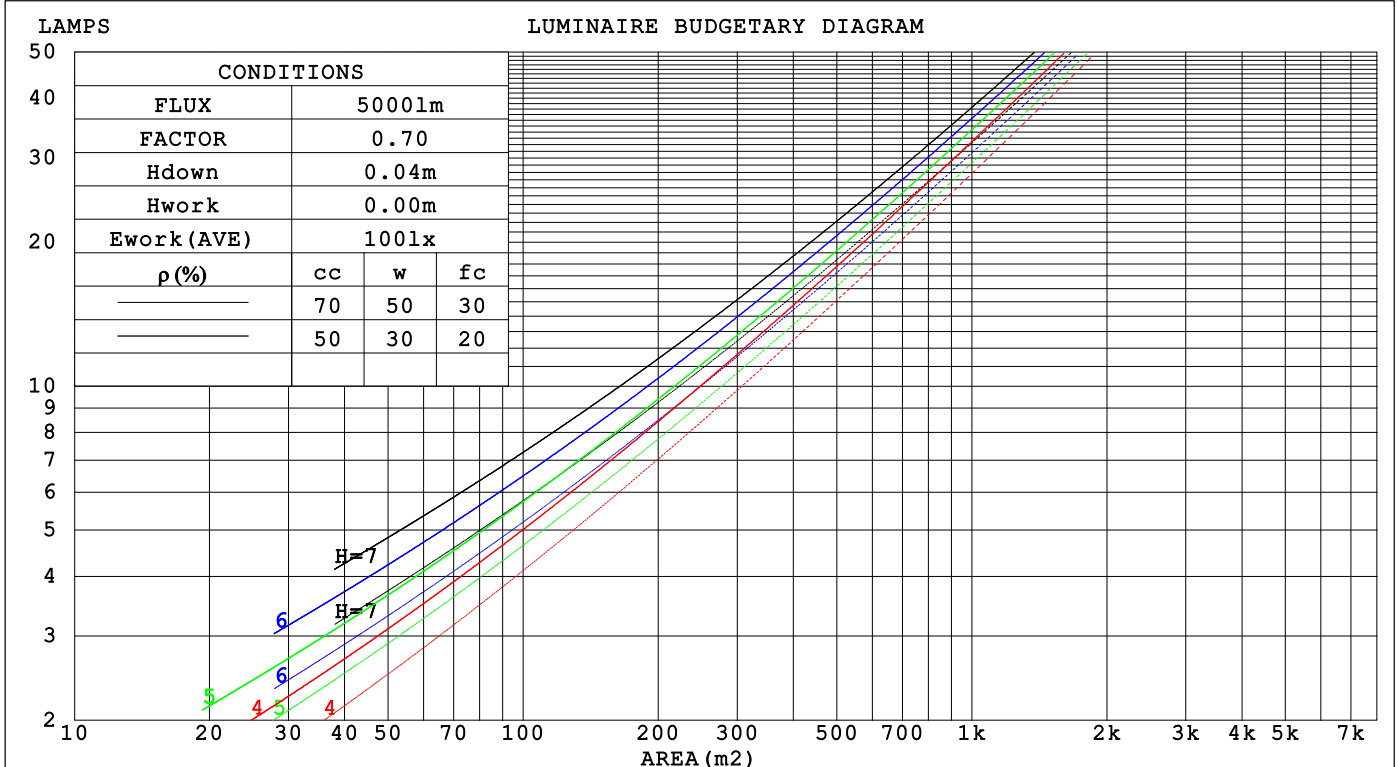
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2650]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.85V I:0.3728A P:44.568W PF:0.9974 Freq:60.01Hz		
Lamp Flux:5671.46x1 lm		
NAME: LS-WP01-4WT-5CCT(MS)		
MFR.: EVERFINE		

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			Coefficients of Utilization(CU)												
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.10	1.10	1.06	1.06	1.06	1.01	1.01	1.01	.99
1.0	1.03	.99	.95	1.01	.97	.93	.96	.93	.90	.92	.90	.87	.88	.86	.84	.82
2.0	.90	.83	.77	.88	.81	.76	.84	.79	.74	.81	.76	.72	.77	.74	.70	.68
3.0	.79	.71	.64	.77	.70	.63	.74	.67	.62	.71	.66	.61	.68	.64	.60	.57
4.0	.70	.61	.54	.68	.60	.54	.66	.59	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.47	.61	.53	.46	.59	.51	.46	.57	.50	.45	.55	.49	.45	.42
6.0	.56	.47	.41	.55	.47	.41	.53	.46	.40	.51	.45	.40	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.47	.40	.35	.45	.39	.35	.33
8.0	.47	.38	.32	.46	.38	.32	.44	.37	.32	.43	.36	.31	.42	.36	.31	.29
9.0	.43	.34	.29	.42	.34	.29	.41	.34	.29	.40	.33	.28	.39	.33	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.26	.24



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-11-05

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2650]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Test:U:119.85V I:0.3728A P:44.568W PF:0.9974 Freq:60.01Hz		
Lamp Flux:5671.46x1 lm		
NAME: LS-WP01-4WT-5CCT(MS)		
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	.317	.180	.057	.309	.176	.056	.295	.169	.054	.282	.163	.052	.271	.157	.051	
2.0	.295	.162	.050	.288	.159	.049	.276	.153	.048	.264	.148	.046	.254	.144	.045	
3.0	.271	.144	.043	.266	.142	.043	.255	.138	.042	.245	.134	.041	.235	.130	.040	
4.0	.250	.130	.038	.245	.128	.038	.235	.125	.037	.226	.121	.037	.218	.118	.036	
5.0	.231	.118	.034	.226	.116	.034	.217	.113	.033	.209	.110	.033	.202	.108	.032	
6.0	.214	.107	.031	.210	.106	.030	.202	.103	.030	.195	.101	.030	.188	.099	.029	
7.0	.199	.098	.028	.195	.097	.028	.188	.095	.027	.182	.093	.027	.176	.091	.027	
8.0	.185	.091	.025	.182	.090	.025	.176	.088	.025	.170	.086	.025	.165	.085	.025	
9.0	.174	.084	.023	.171	.083	.023	.165	.082	.023	.160	.080	.023	.155	.079	.023	
10.0	.163	.078	.022	.161	.078	.022	.156	.076	.021	.151	.075	.021	.146	.074	.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	.199	.199	.199	.170	.170	.170	.116	.116	.116	.067	.067	.067	.021	.021	.021	
1.0	.189	.165	.142	.162	.141	.123	.111	.097	.085	.064	.056	.049	.020	.018	.016	
2.0	.181	.141	.106	.155	.121	.092	.106	.084	.064	.061	.049	.038	.020	.016	.012	
3.0	.174	.123	.083	.149	.106	.072	.102	.074	.050	.059	.043	.030	.019	.014	.010	
4.0	.166	.110	.067	.142	.095	.058	.098	.066	.041	.057	.039	.024	.018	.013	.008	
5.0	.158	.099	.056	.136	.086	.049	.094	.060	.034	.054	.035	.020	.017	.012	.007	
6.0	.151	.091	.048	.130	.079	.042	.090	.055	.030	.052	.032	.018	.017	.011	.006	
7.0	.144	.084	.042	.124	.073	.037	.086	.051	.026	.050	.030	.015	.016	.010	.005	
8.0	.138	.078	.038	.119	.068	.033	.082	.048	.023	.048	.028	.014	.015	.009	.005	
9.0	.132	.073	.034	.113	.064	.030	.079	.045	.021	.046	.026	.013	.015	.009	.004	
10.0	.126	.069	.031	.109	.060	.027	.075	.042	.019	.044	.025	.012	.014	.008	.004	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-11-05

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2650]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

Test:U:119.85V I:0.3728A P:44.568W PF:0.9974 Freq:60.01Hz		
Lamp Flux:5671.46x1 lm		
NAME: LS-WP01-4WT-5CCT(MS)		
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) $k(RI) \times RCR = 5$									
$k = 0.60$	57	46	39	56	45	38	55	45	38	32
0.80	67	55	48	66	55	48	64	54	47	41
1.00	75	64	57	74	64	57	72	65	56	49
1.25	82	72	65	81	71	64	78	70	63	56
1.50	87	77	70	86	76	70	83	75	69	61
2.00	94	86	79	92	84	78	89	82	77	69
2.50	98	90	84	96	89	83	92	86	81	73
3.00	102	94	89	99	93	88	95	90	85	77
4.00	106	100	95	103	98	93	99	94	91	81
5.00	108	103	99	105	101	97	101	97	94	84
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

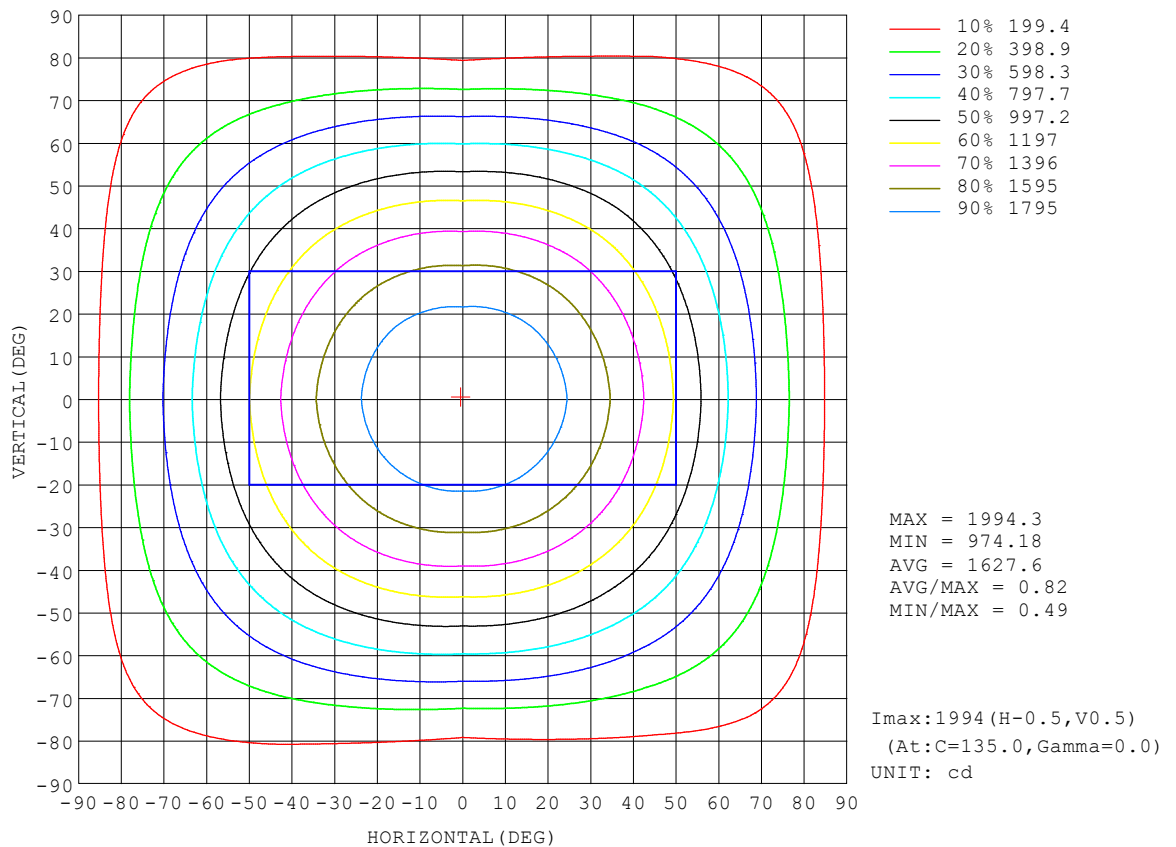
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2025-11-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity: 65.0%
Test Distance: 26.000m [K=1.2650]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Test:U:119.85V I:0.3728A P:44.568W PF:0.9974 Freq:60.01Hz		
Lamp Flux:5671.46x1 lm		
NAME: LS-WP01-4WT-5CCT(MS)		
MFR.: EVERFINE		



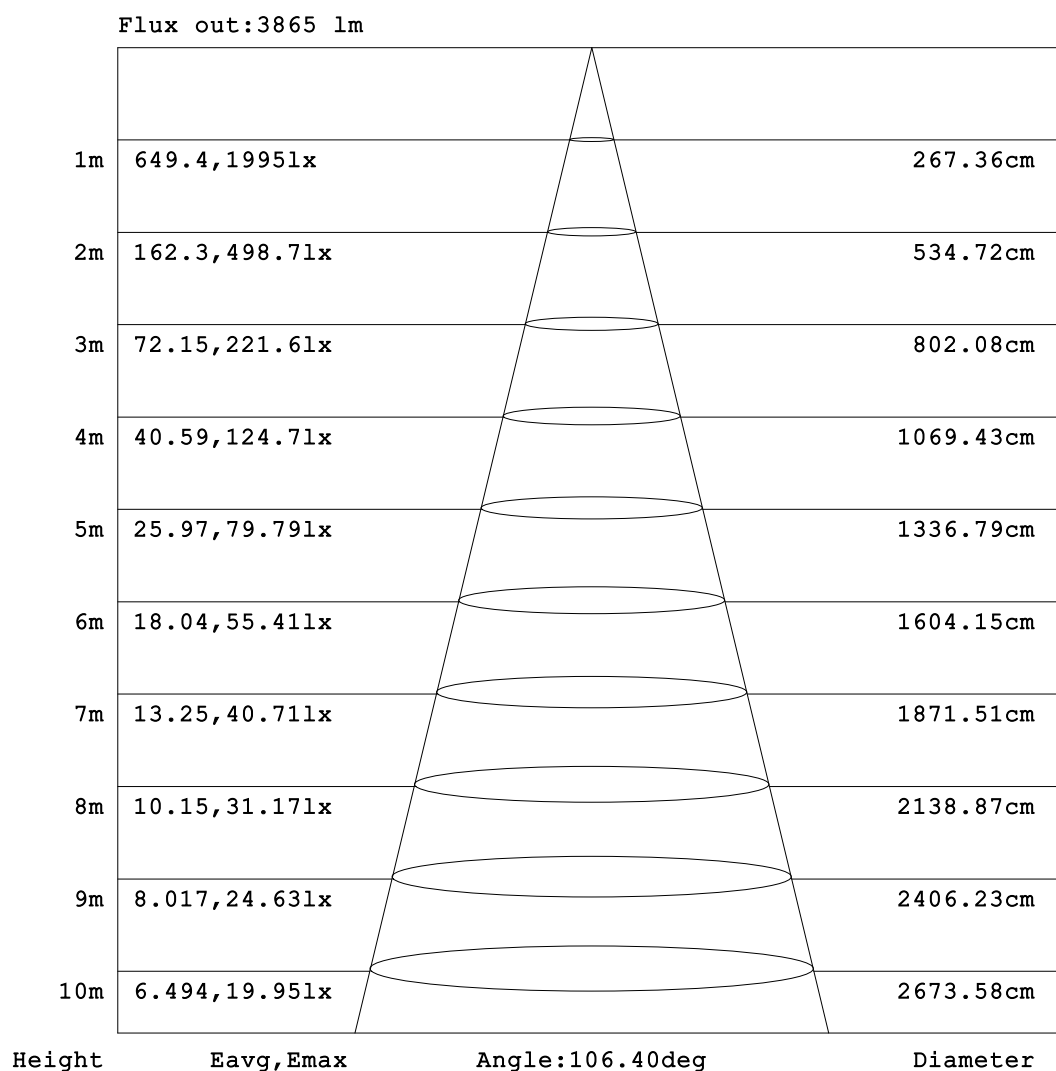
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-11-05

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2650]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:119.85V I:0.3728A P:44.568W PF:0.9974 Freq:60.01Hz Lamp Flux:5671.46x1 lm		
NAME: LS-WP01-4WT-5CCT(MS)		
MFR.: EVERFINE		



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

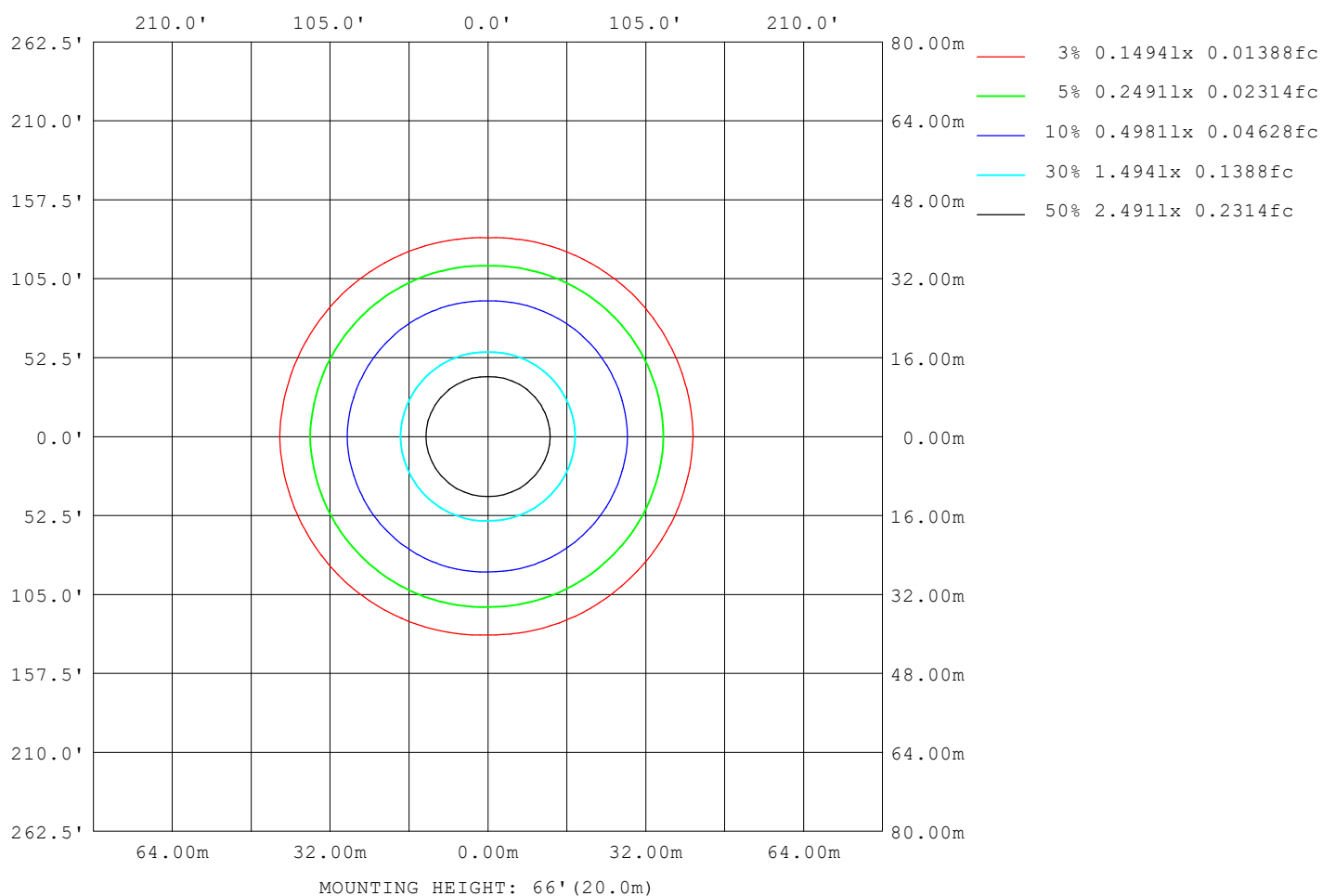
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Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-11-05

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2650]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Test:U:119.85V I:0.3728A P:44.568W PF:0.9974 Freq:60.01Hz		
Lamp Flux:5671.46x1 lm		
NAME: LS-WP01-4WT-5CCT(MS)		
MFR.: EVERFINE		



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-11-05

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2650]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LED Avg.L Report

Test:U:119.85V I:0.3728A P:44.568W PF:0.9974 Freq:60.01Hz Lamp Flux:5671.46x1 lm		
NAME: LS-WP01-4WT-5CCT(MS)		
MFR.: EVERFINE		

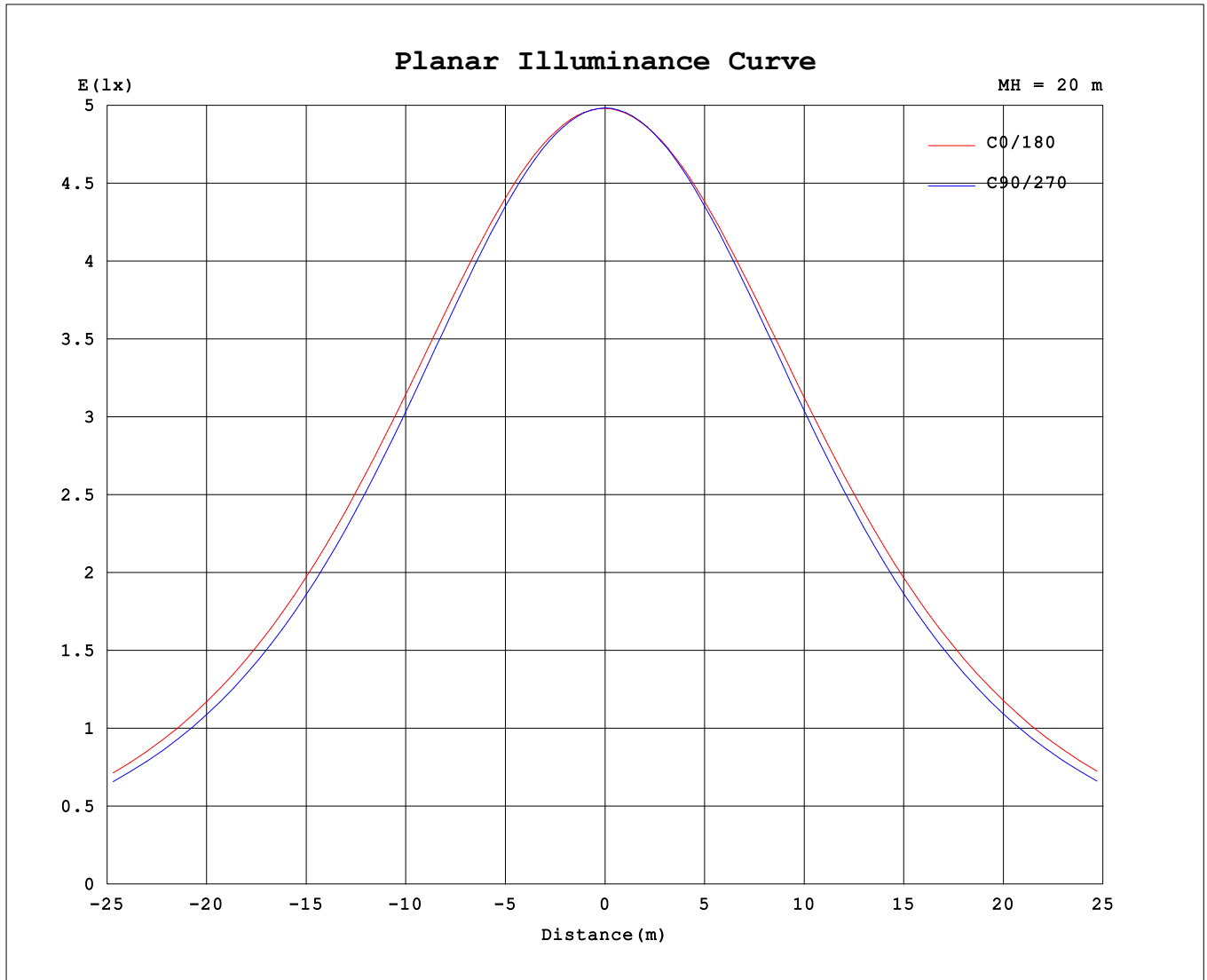
AvgL	cd/m2
L_0~180 (65) av	9192
L_0~180 (75) av	9317
L_0~180 (85) av	12393
L_90~270 (65) av	7950
L_90~270 (75) av	6593
L_90~270 (85) av	3704
L_45 (65) av	8575
L_45 (75) av	7939
L_45 (85) av	9380

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-11-05

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2650]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: DAMIN
Test Date: 2025-11-05

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity: 65.0%
Test Distance: 26.000m [K=1.2650]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.85V I:0.3728A P:44.568W PF:0.9974 Freq:60.01Hz		
Lamp Flux:5671.46x1 lm		
NAME: LS-WP01-4WT-5CCT(MS)		
MFR.: EVERFINE		

Table--1

UNIT: cd

γ (DEG)	C (DEG)																	
	0	45	90	135	180	225	270	315										
0	1993	1993	1993	1993	1993	1993	1993	1993										
5	1986	1983	1982	1982	1982	1983	1982	1985										
10	1963	1953	1948	1952	1955	1954	1950	1957										
15	1922	1904	1894	1901	1911	1907	1896	1911										
20	1863	1837	1820	1836	1851	1841	1823	1846										
25	1787	1753	1729	1752	1776	1758	1732	1766										
30	1695	1654	1621	1654	1685	1660	1625	1667										
35	1586	1538	1502	1543	1581	1548	1505	1555										
40	1462	1410	1370	1421	1464	1424	1376	1429										
45	1326	1271	1232	1288	1334	1290	1238	1294										
50	1178	1123	1088	1146	1195	1149	1094	1149										
55	1025	970	939	998	1049	1001	945	998										
60	867	814	786	847	900	849	791	843										
65	712	658	630	693	750	693	635	684										
70	565	505	472	543	605	539	478	530										
75	436	365	318	402	472	393	324	387										
80	325	241	178	276	357	265	181	264										
85	191	136	59.8	164	216	157	61.6	159										
90	1.88	1.11	0.46	2.46	5.06	2.73	0.29	0.75										
95	101	43.0	0.38	56.6	110	44.1	0.31	56.1										
100	56.3	14.8	0.38	21.8	60.7	14.5	0.77	22.5										
105	26.0	3.81	0.69	6.57	27.5	3.04	1.15	5.76										
110	9.57	2.40	1.15	2.83	9.79	1.71	1.61	1.99										
115	3.77	2.40	1.84	2.60	3.45	1.71	2.23	1.99										
120	3.61	2.40	1.85	2.45	2.15	1.86	2.23	2.06										
125	3.61	2.40	2.07	2.44	1.99	2.33	2.30	2.52										
130	2.84	2.64	2.07	2.52	2.08	2.72	2.77	2.52										
135	3.45	2.95	2.46	2.60	2.53	2.71	2.84	2.90										
140	3.61	3.03	2.69	3.06	2.53	3.02	3.76	3.13										
145	3.76	3.72	2.84	3.21	2.53	2.95	3.99	3.06										
150	3.84	3.96	2.84	3.59	2.69	3.49	4.15	3.36										
155	4.68	4.03	2.92	3.82	3.30	3.41	4.23	3.44										
160	4.68	4.50	3.53	3.82	3.30	3.41	4.38	3.82										
165	4.68	5.35	4.07	4.28	4.30	4.19	4.61	3.90										
170	4.91	5.35	4.38	4.28	4.30	4.19	4.69	4.35										
175	4.69	4.81	4.38	4.28	4.30	4.19	4.69	4.35										
180	4.14	4.73	4.38	4.28	4.30	4.19	4.69	4.35										

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-11-05

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2650]
Remarks: