

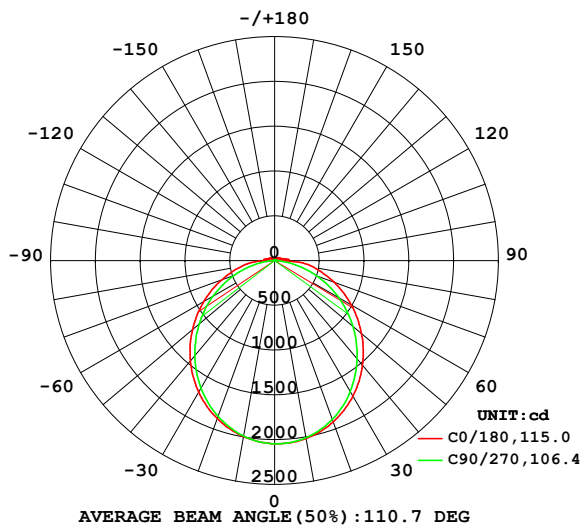
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

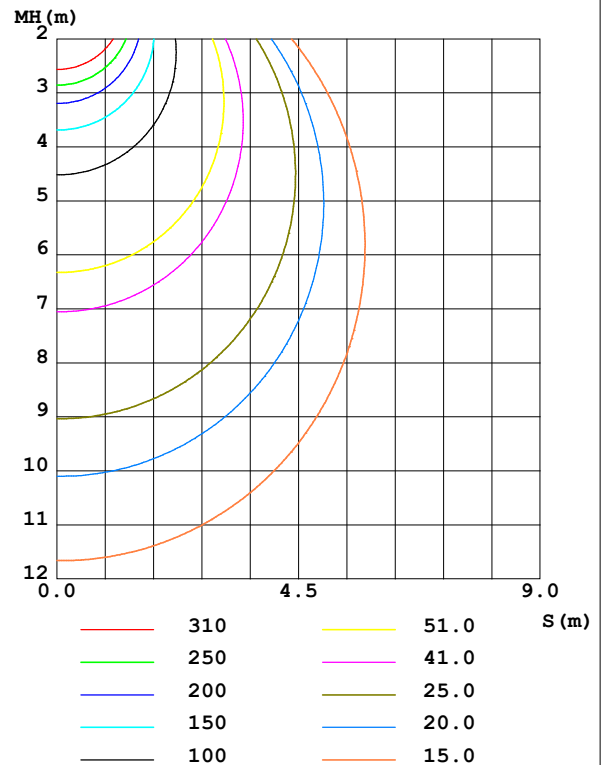
Test:U:119.97V I:0.3934A P:47.058W PF:0.9972 Freq:60.01Hz Lamp Flux:6074.92x1 lm		
NAME: LS-WP02-4WT-5CCT(MS)		
MFR.: EVERFINE		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 129.09 lm/W			
MODEL		I _{max} (cd)	2046	S/MH(C0/180)	1.24
NOMINAL POWER(W)	46	LOR(%)	100.0	S/MH(C90/270)	1.20
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	6074.9	η UP,DN(C0-180)	1.7,49.0
NOMINAL FLUX(lm)	6074.92	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.6,47.7
LAMPS INSIDE	1	η up (%)	3.3	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down (%)	96.7	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℃
Operators:DAMIN
Test Date:2025-11-03

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	2017	2015	2009	2001	1995	1994	1991	2006	0- 10	193.2	193.2	3.18,3.18
20	1917	1908	1888	1878	1877	1868	1851	1889	10- 20	550.9	744.1	12.2,12.2
30	1749	1728	1690	1687	1696	1676	1645	1706	20- 30	828.6	1573	25.9,25.9
40	1526	1488	1433	1444	1465	1434	1388	1473	30- 40	989.8	2563	42.2,42.2
50	1268	1210	1142	1164	1197	1157	1099	1206	40- 50	1020	3582	59,59
60	989.5	913.3	826.6	861.3	912.7	856.8	794.1	917.9	50- 60	924.2	4506	74.2,74.2
70	707.3	614.8	498.4	555.5	626.7	550.7	478.6	617.4	60- 70	724.8	5231	86.1,86.1
80	446.9	334.0	183.4	279.5	374.5	275.5	176.8	332.4	70- 80	460.7	5692	93.7,93.7
90	11.99	7.579	1.072	4.523	8.355	6.481	0.8403	9.038	80- 90	183.3	5875	96.7,96.7
100	116.3	54.47	1.376	52.92	101.0	49.00	2.140	56.06	90-100	56.38	5932	97.6,97.6
110	71.16	38.65	2.296	40.62	70.32	37.20	2.985	37.51	100-110	46.80	5978	98.4,98.4
120	55.59	32.27	2.756	33.17	55.25	31.42	3.291	30.12	110-120	33.64	6012	99,99
130	43.97	26.80	3.291	27.58	42.06	30.03	5.201	20.81	120-130	24.94	6037	99.4,99.4
140	34.65	21.79	4.439	21.87	32.48	28.26	7.190	12.21	130-140	17.66	6055	99.7,99.7
150	26.21	12.08	4.593	17.53	24.05	23.11	6.669	7.335	140-150	11.30	6066	99.9,99.9
160	8.530	11.47	4.746	6.555	14.20	14.03	7.810	6.326	150-160	5.789	6072	99.9,99.9
170	12.83	10.55	6.276	8.459	7.971	8.162	7.883	6.326	160-170	2.391	6074	100,100
180	6.389	6.938	6.353	6.936	6.301	6.314	7.195	6.326	170-180	0.7408	6075	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

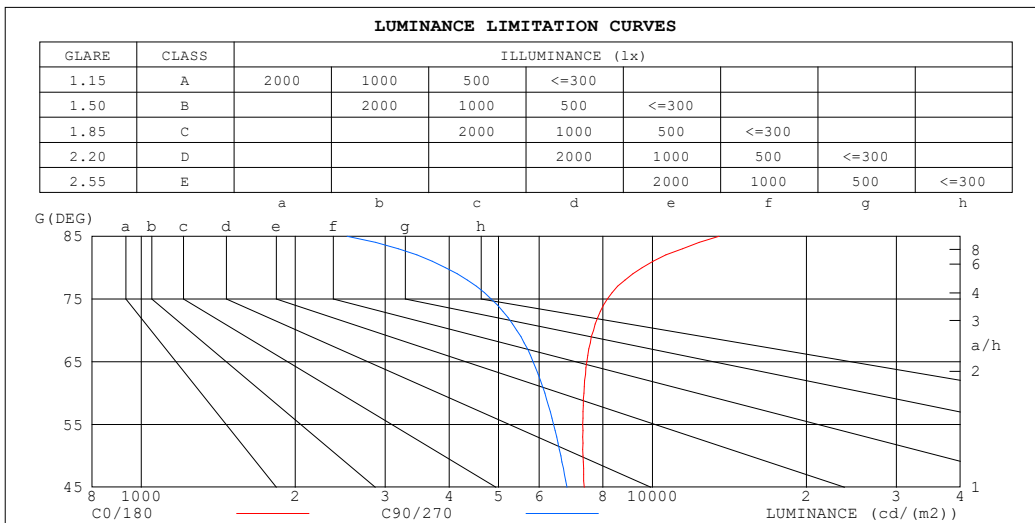
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-11-03

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:119.97V I:0.3934A P:47.058W PF:0.9972 Freq:60.01Hz		
Lamp Flux:6074.92x1 lm		
NAME: LS-WP02-4WT-5CCT (MS)		
MFR.: EVERFINE		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	13499	2527
80	9542	3933
75	8156	4833
70	7669	5427
65	7435	5840
60	7339	6156
55	7304	6405
50	7315	6617
45	7350	6802

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-11-03

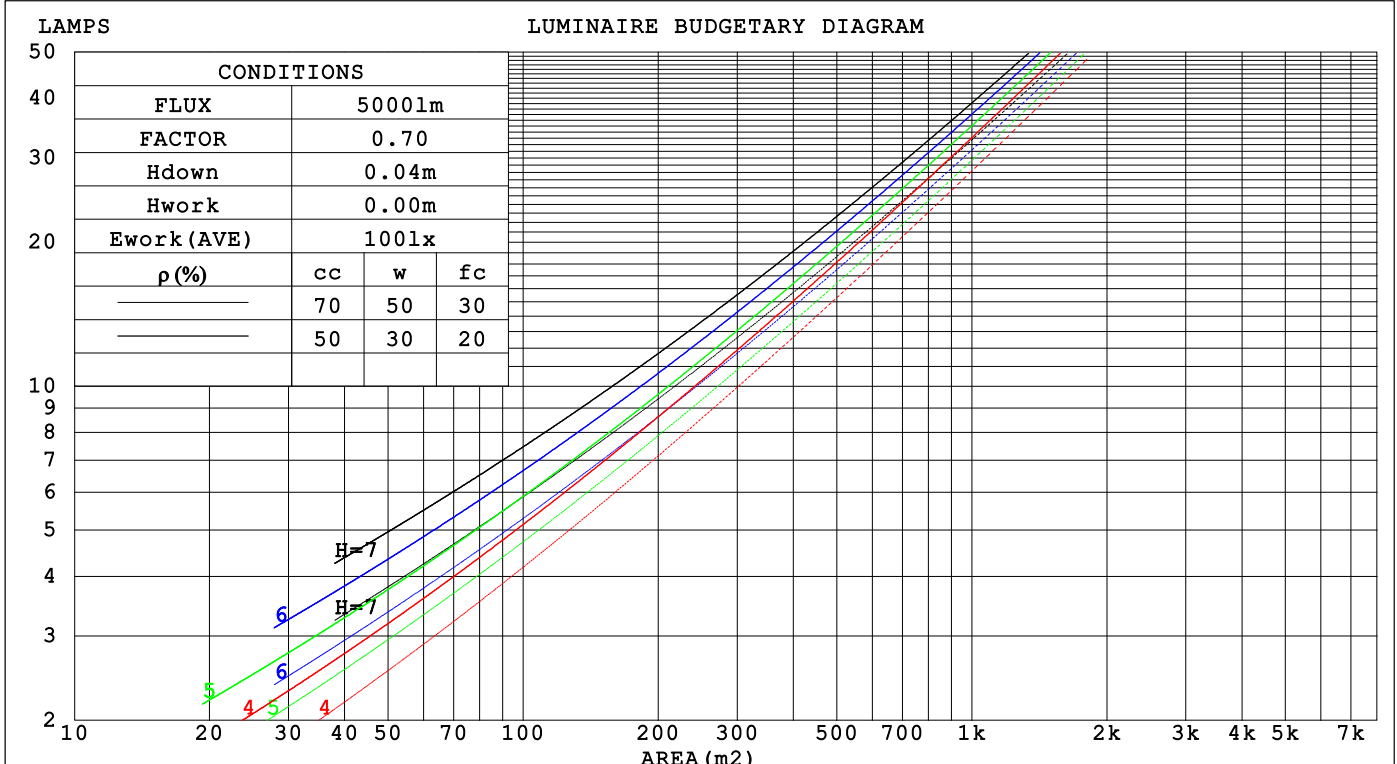
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2650]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.97V I:0.3934A P:47.058W PF:0.9972 Freq:60.01Hz		
Lamp Flux:6074.92x1 lm		
NAME: LS-WP02-4WT-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	1.18	1.18	1.18	1.15	1.15	1.15	1.09	1.09	1.09	1.04	1.04	1.04	.99	.99	.99	.97
1.0	1.02	.98	.94	.90	.96	.92	.95	.91	.88	.90	.88	.85	.86	.84	.82	.80
2.0	.89	.82	.76	.87	.80	.75	.83	.77	.72	.79	.74	.70	.75	.72	.68	.66
3.0	.78	.70	.63	.76	.68	.62	.73	.66	.61	.69	.64	.59	.66	.62	.58	.55
4.0	.69	.60	.53	.67	.59	.53	.64	.57	.52	.62	.55	.50	.59	.54	.49	.47
5.0	.62	.52	.46	.60	.52	.45	.58	.50	.44	.55	.49	.44	.53	.47	.43	.41
6.0	.55	.46	.40	.54	.46	.40	.52	.45	.39	.50	.43	.38	.48	.42	.38	.36
7.0	.50	.41	.35	.49	.41	.35	.47	.40	.34	.46	.39	.34	.44	.38	.33	.31
8.0	.46	.37	.31	.45	.37	.31	.43	.36	.31	.42	.35	.30	.40	.34	.30	.28
9.0	.42	.34	.28	.41	.33	.28	.40	.33	.28	.39	.32	.27	.37	.31	.27	.25
10.0	.39	.31	.26	.38	.31	.25	.37	.30	.25	.36	.29	.25	.35	.29	.25	.23



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:2025-11-03

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:119.97V I:0.3934A P:47.058W PF:0.9972 Freq:60.01Hz											
Lamp Flux:6074.92x1 lm											
NAME: LS-WP02-4WT-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	.324	.184	.058	.316	.180	.057	.301	.173	.055	.287	.165	.053	.274	.159	.051															
2.0	.299	.164	.050	.292	.161	.050	.278	.155	.048	.266	.149	.047	.255	.144	.045															
3.0	.274	.146	.044	.268	.143	.043	.256	.139	.042	.245	.134	.041	.234	.130	.040															
4.0	.252	.131	.038	.246	.129	.038	.235	.125	.037	.225	.121	.037	.216	.117	.036															
5.0	.232	.118	.034	.227	.116	.034	.217	.113	.033	.208	.110	.033	.200	.107	.032															
6.0	.215	.108	.031	.210	.106	.031	.201	.103	.030	.193	.101	.030	.186	.098	.029															
7.0	.199	.099	.028	.195	.097	.028	.188	.095	.027	.180	.092	.027	.174	.090	.026															
8.0	.186	.091	.026	.182	.090	.025	.175	.088	.025	.169	.086	.025	.163	.083	.024															
9.0	.174	.084	.024	.171	.083	.023	.164	.081	.023	.159	.079	.023	.153	.078	.022															
10.0	.164	.078	.022	.161	.078	.022	.155	.076	.021	.149	.074	.021	.144	.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	.216	.216	.216	.184	.184	.184	.126	.126	.126	.072	.072	.072	.023	.023	.023	
1.0	.207	.181	.158	.177	.156	.136	.121	.107	.094	.070	.062	.055	.022	.020	.018	
2.0	.199	.157	.123	.170	.135	.106	.117	.094	.074	.067	.054	.043	.022	.018	.014	
3.0	.191	.140	.099	.164	.121	.086	.112	.084	.060	.065	.049	.036	.021	.016	.012	
4.0	.183	.127	.084	.157	.109	.073	.108	.076	.051	.063	.045	.030	.020	.015	.010	
5.0	.176	.116	.073	.151	.101	.063	.104	.070	.045	.060	.041	.026	.019	.013	.009	
6.0	.168	.108	.065	.145	.094	.056	.100	.066	.040	.058	.039	.024	.019	.013	.008	
7.0	.162	.101	.059	.139	.088	.051	.096	.062	.036	.056	.036	.022	.018	.012	.007	
8.0	.155	.095	.055	.133	.083	.048	.092	.058	.034	.054	.034	.020	.017	.011	.007	
9.0	.149	.091	.051	.128	.079	.045	.089	.055	.032	.052	.033	.019	.017	.011	.006	
10.0	.143	.086	.048	.123	.075	.042	.086	.053	.030	.050	.031	.018	.016	.010	.006	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-11-03

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:119.97V I:0.3934A P:47.058W PF:0.9972 Freq:60.01Hz		
Lamp Flux:6074.92x1 lm		
NAME: LS-WP02-4WT-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) $k(RI) \times RCR = 5$									
$k = 0.60$	56	44	37	55	44	37	54	43	37	31
0.80	66	54	47	65	54	46	63	53	46	39
1.00	74	63	55	73	62	55	70	63	54	47
1.25	81	70	63	80	69	62	77	68	61	54
1.50	86	76	69	84	75	68	81	73	67	59
2.00	93	84	77	91	83	76	87	80	75	66
2.50	97	89	82	95	87	81	90	84	79	70
3.00	100	93	87	98	91	86	93	88	83	74
4.00	105	98	93	102	96	92	97	93	89	79
5.00	107	102	97	104	100	96	99	96	92	82
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

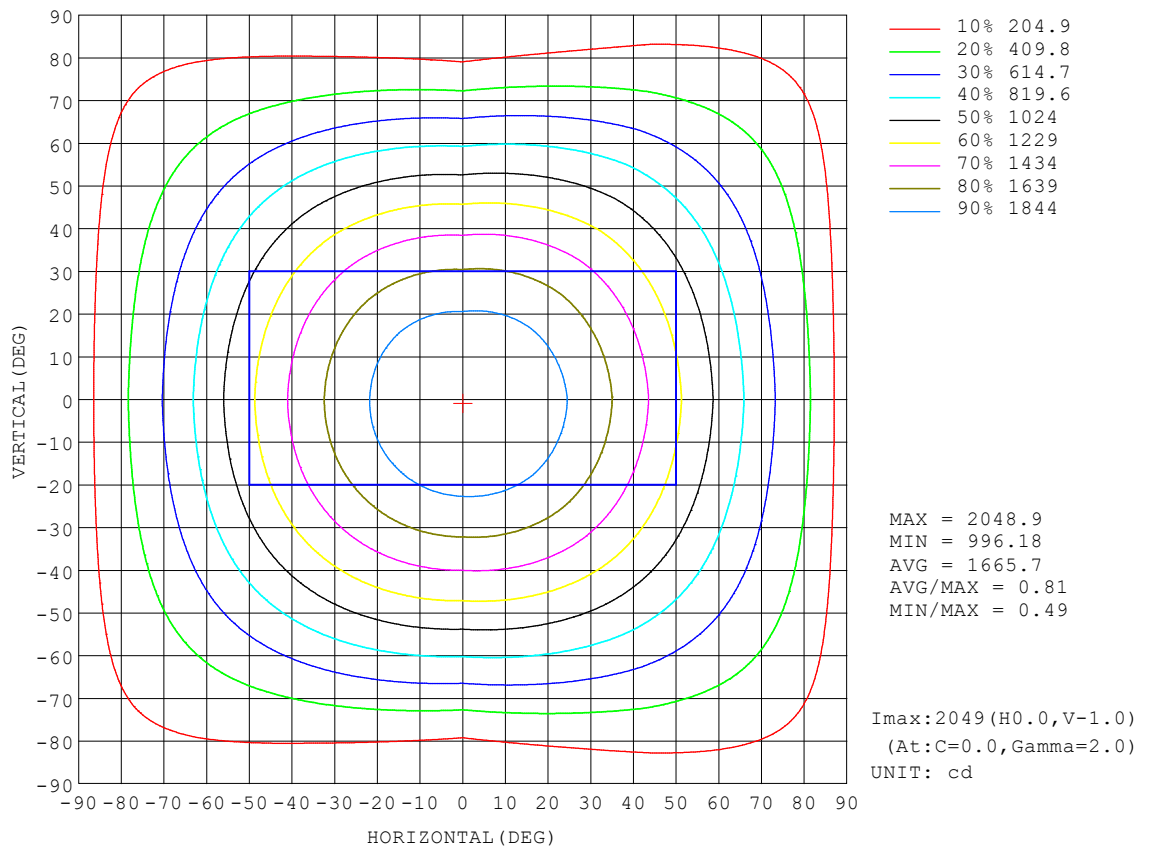
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-11-03

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:119.97V I:0.3934A P:47.058W PF:0.9972 Freq:60.01Hz		
Lamp Flux:6074.92x1 lm		
NAME: LS-WP02-4WT-5CCT(MS)		
MFR.: EVERFINE		



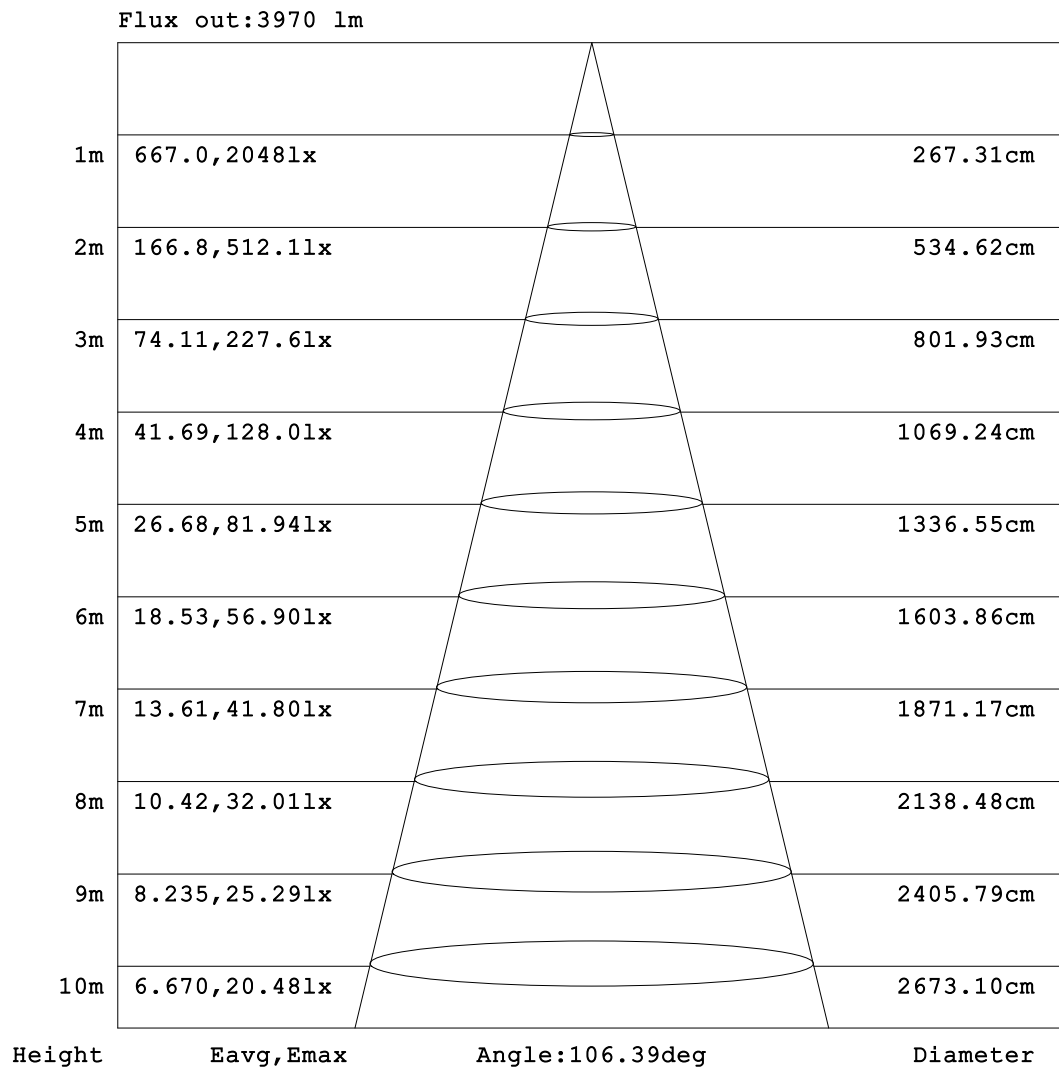
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-11-03

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:119.97V I:0.3934A P:47.058W PF:0.9972 Freq:60.01Hz Lamp Flux:6074.92x1 lm		
NAME: LS-WP02-4WT-5CCT(MS)		
MFR.: EVERFINE		



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

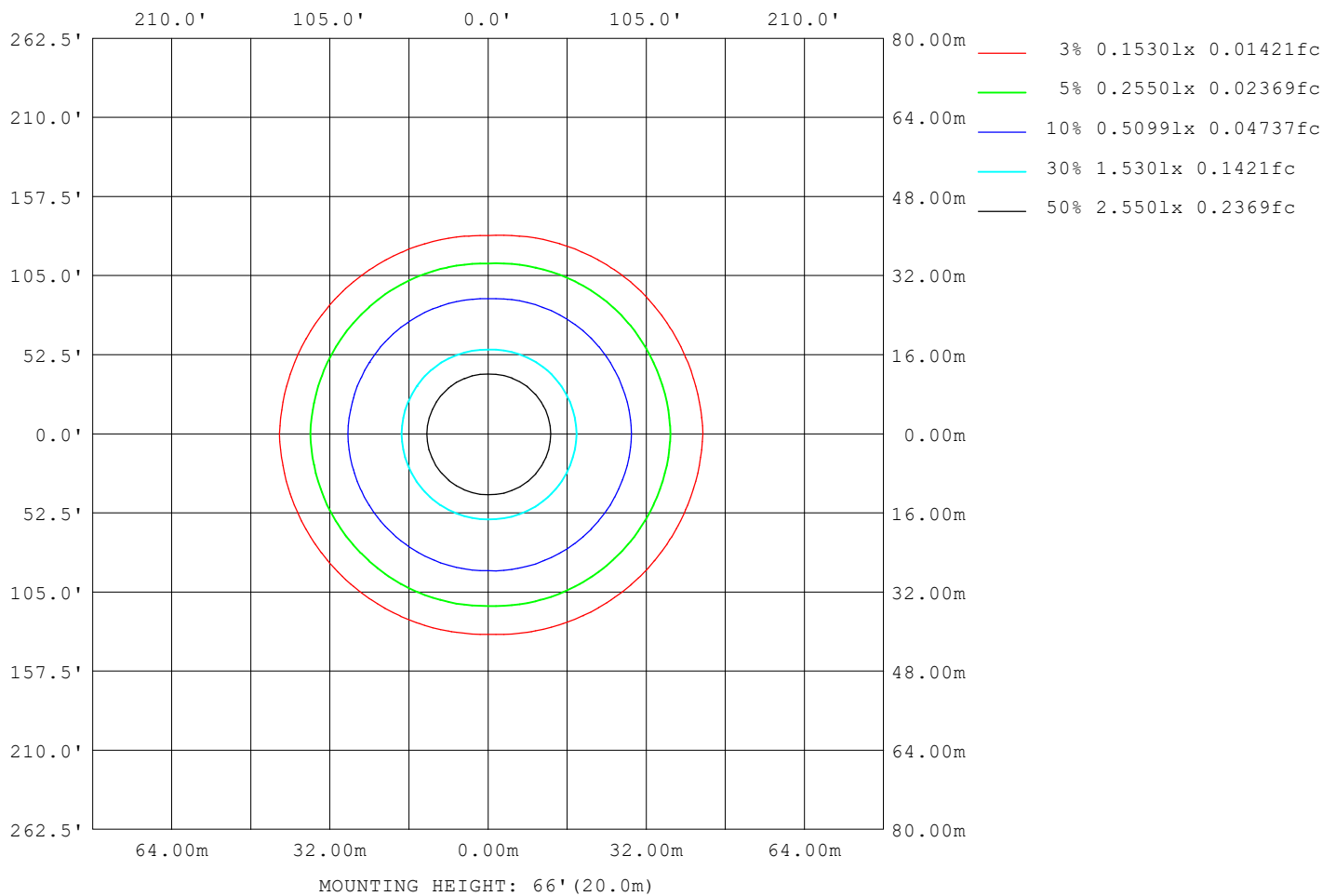
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: DAMIN
Test Date: 2025-11-03

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:119.97V I:0.3934A P:47.058W PF:0.9972 Freq:60.01Hz		
Lamp Flux:6074.92x1 lm		
NAME: LS-WP02-4WT-5CCT (MS)		
MFR.: EVERFINE		



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-11-03

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:119.97V I:0.3934A P:47.058W PF:0.9972 Freq:60.01Hz		
Lamp Flux:6074.92x1 lm		
NAME: LS-WP02-4WT-5CCT(MS)		
MFR.: EVERFINE		

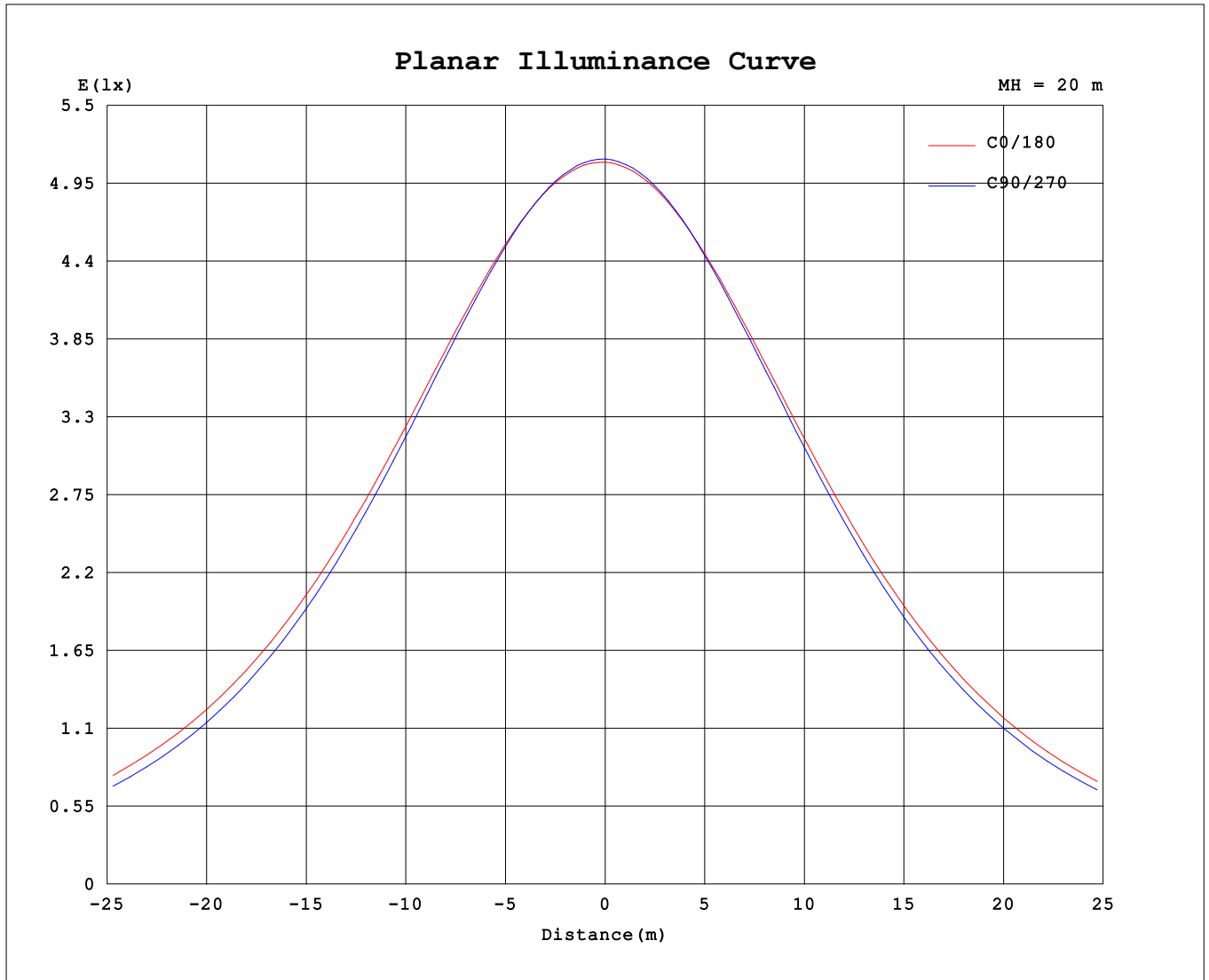
AvgL	cd/m2
L_0~180 (65) av	7107
L_0~180 (75) av	7637
L_0~180 (85) av	12322
L_90~270 (65) av	5718
L_90~270 (75) av	4729
L_90~270 (85) av	2487
L_45 (65) av	6467
L_45 (75) av	6295
L_45 (85) av	7956

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-11-03

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: 2025-11-03

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:119.97V I:0.3934A P:47.058W PF:0.9972 Freq:60.01Hz		
Lamp Flux:6074.92x1 lm		
NAME: LS-WP02-4WT-5CCT(MS)		
MFR.: EVERFINE		

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315										
0	2045	2045	2045	2045	2045	2045	2045	2045										
5	2040	2040	2037	2033	2029	2030	2029	2035										
10	2017	2015	2009	2001	1995	1994	1991	2006										
15	1975	1971	1959	1950	1944	1940	1929	1956										
20	1917	1908	1888	1878	1877	1868	1851	1889										
25	1841	1826	1797	1791	1794	1778	1755	1805										
30	1749	1728	1690	1687	1696	1676	1645	1706										
35	1644	1615	1567	1571	1585	1560	1521	1596										
40	1526	1488	1433	1444	1465	1434	1388	1473										
45	1402	1353	1292	1308	1334	1299	1246	1343										
50	1268	1210	1142	1164	1197	1157	1099	1206										
55	1130	1062	987	1015	1057	1009	948	1064										
60	990	913	827	861	913	857	794	918										
65	847	763	663	707	768	703	637	768										
70	707	615	498	556	627	551	479	617										
75	569	469	336	410	494	405	323	468										
80	447	334	183	280	374	275	177	332										
85	317	203	59.1	169	261	165	57.5	209										
90	12.0	7.58	1.07	4.52	8.36	6.48	0.84	9.04										
95	162	79.5	1.00	65.6	122	63.5	1.53	83.3										
100	116	54.5	1.38	52.9	101	49.0	2.14	56.1										
105	87.2	43.7	1.84	45.4	81.7	41.7	2.60	43.2										
110	71.2	38.6	2.30	40.6	70.3	37.2	2.99	37.5										
115	62.0	35.4	2.83	37.0	62.1	34.0	3.29	33.9										
120	55.6	32.3	2.76	33.2	55.2	31.4	3.29	30.1										
125	50.0	29.8	3.29	30.3	48.7	30.3	3.90	26.1										
130	44.0	26.8	3.29	27.6	42.1	30.0	5.20	20.8										
135	39.9	24.6	3.75	24.2	38.1	28.7	6.12	16.5										
140	34.6	21.8	4.44	21.9	32.5	28.3	7.19	12.2										
145	30.5	20.0	4.59	19.6	28.2	25.9	7.04	6.81										
150	26.2	12.1	4.59	17.5	24.0	23.1	6.67	7.34										
155	21.6	7.48	4.59	12.4	20.7	19.9	6.96	6.33										
160	8.53	11.5	4.75	6.56	14.2	14.0	7.81	6.33										
165	10.2	12.1	5.51	7.17	6.69	6.78	8.50	6.33										
170	12.8	10.5	6.28	8.46	7.97	8.16	7.88	6.33										
175	8.66	8.47	6.35	7.47	6.75	6.85	7.12	6.33										
180	6.39	6.94	6.35	6.94	6.30	6.31	7.19	6.33										

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-11-03

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: