

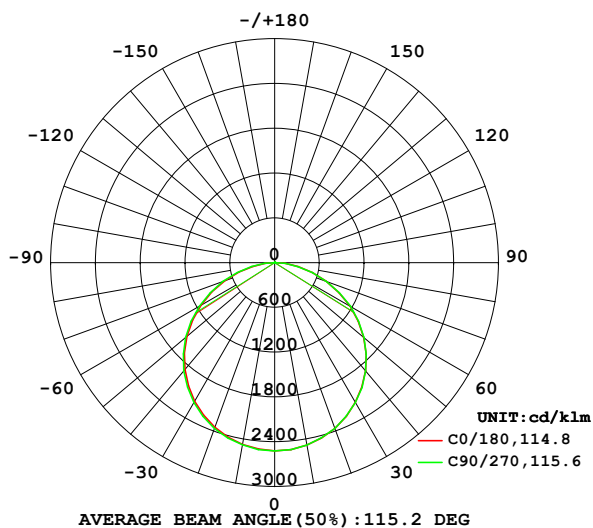
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

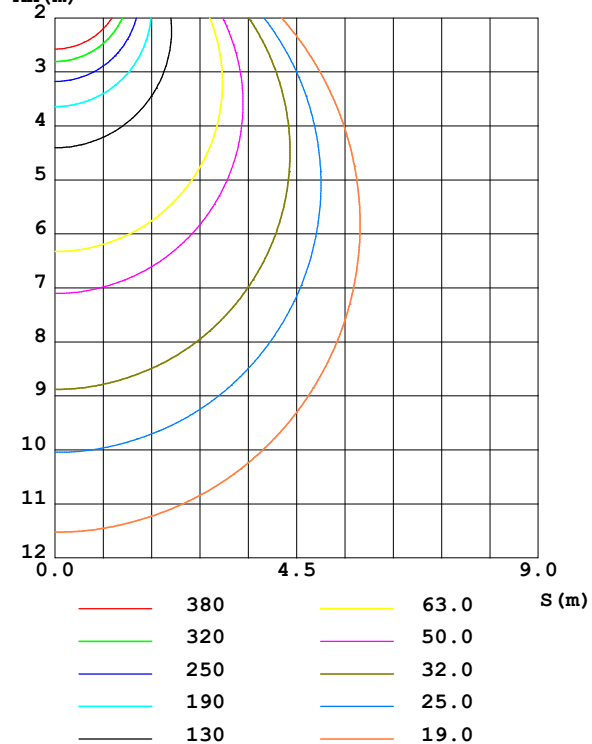
Test:U:276.96V I:0.1757A P:45.871W PF:0.9429 Freq:60.01Hz Lamp Flux:1000x1 lm		
NAME: ASD-BLP-24A67-4P 45 5000K 277	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 162.43 lm/W			
MODEL		I _{max} (cd/klm)	2524	S/MH (C0/180)	1.27
NOMINAL POWER(W)	45	LOR (%)	745.1	S/MH (C90/270)	1.28
RATED VOLTAGE(V)	277	TOTAL FLUX(lm/klm)	7450.9	η UP,DN (C0-180)	0.3,373.5
NOMINAL FLUX(lm)	1000	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.3,371.0
LAMPS INSIDE	1	η up (%)	0.6	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	277	η down (%)	744.5	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx/klm)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2025-01-22

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
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	2481	2488	2482	2479	2472	2481	2479	2482	0- 10	238.7	238.7	3.2, 23.9
20	2363	2369	2363	2353	2346	2355	2363	2364	10- 20	686.1	924.8	12.4, 92.5
30	2163	2173	2165	2152	2144	2158	2164	2165	20- 30	1046	1971	26.5, 197
40	1894	1905	1895	1879	1871	1885	1894	1892	30- 40	1272	3243	43.5, 324
50	1560	1570	1562	1541	1535	1548	1559	1557	40- 50	1334	4577	61.4, 458
60	1168	1176	1174	1150	1140	1152	1166	1168	50- 60	1218	5795	77.8, 580
70	738.3	745.7	741.3	720.1	709.9	723.1	736.3	738.8	60- 70	938.8	6734	90.4, 673
80	319.7	327.2	323.1	304.4	296.7	308.6	315.7	318.0	70- 80	548.7	7283	97.7, 728
90	14.37	10.57	5.628	6.568	7.565	5.470	3.062	10.34	80- 90	162.2	7445	99.9, 745
100	0.3837	0.3090	0.6919	0.5356	0	0	0.0773	0	90-100	2.391	7447	100, 745
110	0.3837	0.3090	0.6919	0.5356	0.1535	0.2312	0.5384	0.1530	100-110	0.3069	7448	100, 745
120	0.3837	0.3863	0.6919	0.5356	0.1535	0.1545	0.6150	0.2296	110-120	0.3812	7448	100, 745
130	0.6130	0.6956	0.6919	0.5356	0.4605	0.3862	0.8462	0.4590	120-130	0.4210	7449	100, 745
140	0.6906	0.8498	0.6919	0.5356	0.6927	0.5404	1.076	0.9182	130-140	0.5139	7449	100, 745
150	1.072	1.082	0.9993	0.6896	1.381	1.081	1.384	1.606	140-150	0.5948	7450	100, 745
160	1.303	1.313	1.230	0.9951	1.459	1.468	1.693	1.913	150-160	0.6029	7450	100, 745
170	1.995	1.622	1.845	1.837	2.072	2.163	1.998	1.989	160-170	0.4705	7451	100, 745
180	2.148	1.777	1.999	2.067	2.072	2.163	1.768	1.989	170-180	0.1882	7451	100, 745
DEG	LUMINOUS INTENSITY:cd/klm									UNIT:lm/klm		

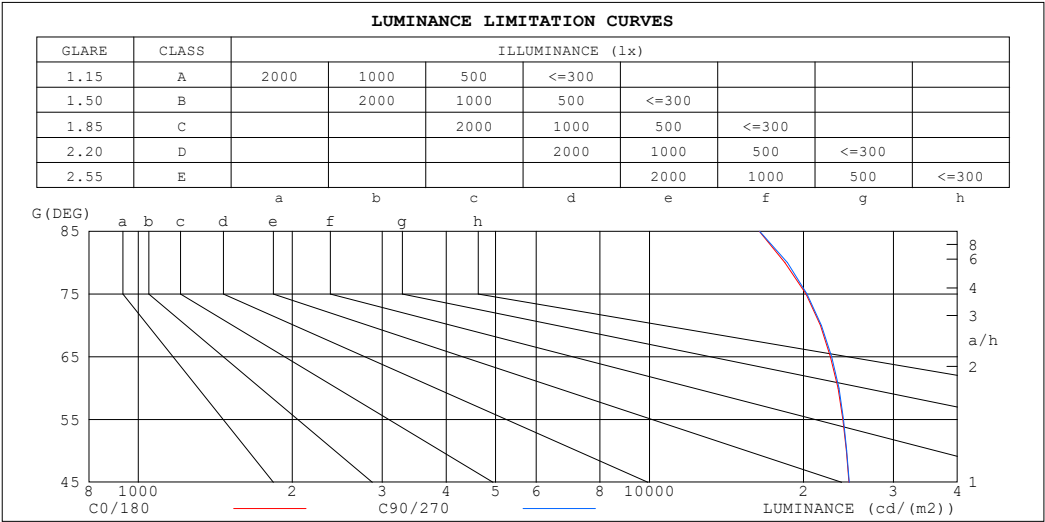
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:2025-01-22

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 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:276.96V I:0.1757A P:45.871W PF:0.9429 Freq:60.01Hz Lamp Flux:1000x1 lm		
NAME: ASD-BLP-24A67-4P 45 5000K 277	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	16392	16412
80	18413	18609
75	20231	20334
70	21586	21675
65	22581	22711
60	23366	23484
55	23893	23964
50	24264	24308
45	24542	24578

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-01-22

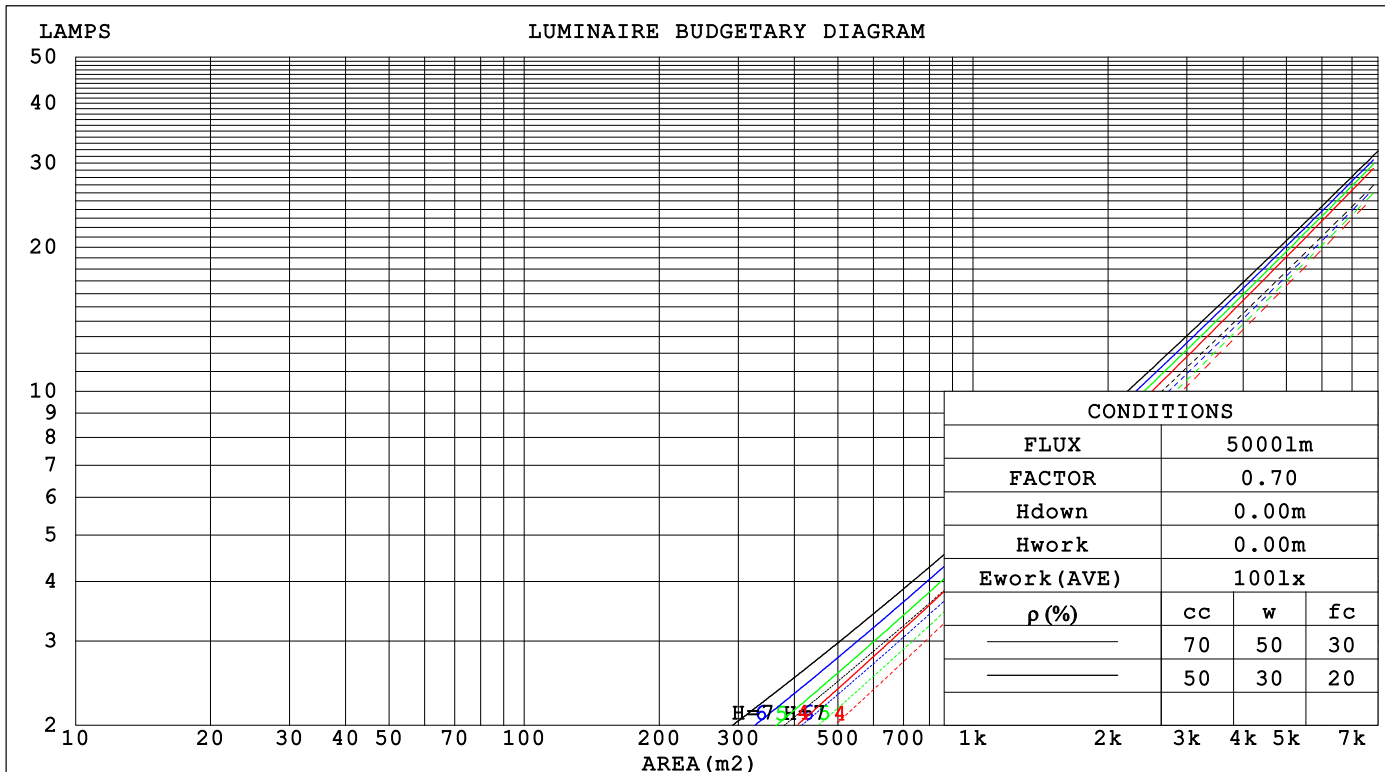
γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2650]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:276.96V I:0.1757A P:45.871W PF:0.9429 Freq:60.01Hz Lamp Flux:1000x1 lm		
NAME: ASD-BLP-24A67-4P 45 5000K 277	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

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															Coefficients of Utilization(CU)														
0.0	8.87	8.87	8.87	8.66	8.66	8.66	8.28	8.28	8.28	7.92	7.92	7.92	7.60	7.60	7.60	7.45														
1.0	7.71	7.39	7.09	7.54	7.25	6.98	7.22	6.98	6.75	6.93	6.73	6.54	6.66	6.50	6.35	6.19														
2.0	6.70	6.18	5.75	6.56	6.08	5.68	6.29	5.89	5.54	6.05	5.71	5.41	5.82	5.54	5.29	5.13														
3.0	5.87	5.25	4.76	5.75	5.18	4.71	5.53	5.03	4.63	5.32	4.90	4.55	5.13	4.77	4.47	4.30														
4.0	5.19	4.53	4.02	5.09	4.47	3.99	4.90	4.36	3.93	4.73	4.26	3.88	4.56	4.16	3.82	3.66														
5.0	4.63	3.95	3.45	4.55	3.91	3.43	4.39	3.82	3.39	4.24	3.74	3.35	4.10	3.66	3.31	3.15														
6.0	4.16	3.49	3.00	4.09	3.45	2.99	3.96	3.39	2.96	3.83	3.32	2.93	3.71	3.26	2.91	2.75														
7.0	3.77	3.11	2.65	3.71	3.08	2.64	3.59	3.03	2.62	3.48	2.97	2.59	3.38	2.92	2.57	2.42														
8.0	3.44	2.80	2.36	3.39	2.77	2.35	3.29	2.73	2.33	3.19	2.69	2.32	3.10	2.64	2.30	2.16														
9.0	3.15	2.53	2.12	3.11	2.52	2.11	3.02	2.48	2.10	2.94	2.44	2.09	2.86	2.41	2.07	1.94														
10.0	2.91	2.31	1.92	2.87	2.30	1.91	2.79	2.27	1.90	2.72	2.24	1.89	2.65	2.21	1.88	1.75														



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-01-22

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
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:276.96V I:0.1757A P:45.871W PF:0.9429 Freq:60.01Hz Lamp Flux:1000x1 lm		
NAME: ASD-BLP-24A67-4P 45 5000K 277	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

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	2.354	1.339	.424	2.301	1.313	.417	2.202	1.263	.403	2.110	1.217	.391	2.026	1.174	.379		
2.0	2.206	1.209	.371	2.160	1.190	.366	2.072	1.152	.358	1.991	1.117	.350	1.916	1.084	.342		
3.0	2.037	1.084	.325	1.996	1.069	.322	1.918	1.039	.316	1.846	1.012	.310	1.779	.985	.305		
4.0	1.877	.975	.287	1.840	.963	.285	1.771	.939	.281	1.707	.917	.277	1.648	.895	.273		
5.0	1.733	.883	.256	1.700	.873	.254	1.639	.853	.251	1.582	.835	.248	1.529	.817	.245		
6.0	1.605	.805	.230	1.576	.796	.229	1.522	.780	.227	1.471	.764	.225	1.423	.749	.222		
7.0	1.493	.738	.209	1.467	.731	.208	1.418	.717	.207	1.373	.704	.205	1.330	.691	.203		
8.0	1.393	.681	.191	1.370	.675	.191	1.327	.663	.189	1.286	.651	.188	1.247	.640	.186		
9.0	1.305	.631	.176	1.284	.626	.176	1.245	.616	.174	1.208	.606	.173	1.173	.596	.172		
10.0	1.226	.588	.163	1.208	.583	.163	1.172	.574	.162	1.139	.566	.161	1.108	.557	.160		

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	1.424	1.424	1.424	1.217	1.217	1.217	.830	.830	.830	.477	.477	.477	.153	.153	.153		
1.0	1.351	1.167	1.002	1.156	1.002	.862	.791	.689	.596	.455	.399	.347	.146	.128	.112		
2.0	1.292	.987	.731	1.107	.850	.632	.758	.588	.441	.437	.342	.258	.140	.111	.084		
3.0	1.235	.856	.555	1.059	.739	.481	.727	.513	.337	.420	.300	.199	.135	.097	.065		
4.0	1.178	.757	.436	1.011	.655	.379	.695	.456	.267	.402	.267	.158	.129	.087	.052		
5.0	1.123	.680	.354	.964	.588	.308	.664	.411	.217	.385	.241	.129	.124	.079	.042		
6.0	1.069	.618	.294	.919	.535	.256	.634	.375	.181	.368	.220	.108	.119	.072	.036		
7.0	1.018	.567	.250	.876	.491	.218	.605	.344	.155	.351	.203	.092	.114	.066	.030		
8.0	.969	.523	.217	.834	.454	.189	.577	.319	.134	.336	.188	.080	.109	.062	.027		
9.0	.924	.487	.191	.796	.422	.167	.551	.297	.119	.321	.175	.071	.104	.058	.023		
10.0	.881	.455	.171	.759	.395	.149	.527	.278	.106	.307	.164	.063	.100	.054	.021		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-01-22

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
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:276.96V I:0.1757A P:45.871W PF:0.9429 Freq:60.01Hz Lamp Flux:1000x1 lm		
NAME: ASD-BLP-24A67-4P 45 5000K 277	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) $k(RI) \times RCR = 5$									
$k = 0.60$	424	337	284	418	335	283	409	331	282	234
0.80	499	411	355	491	408	354	477	402	351	299
1.00	562	478	422	552	473	420	535	484	416	362
1.25	615	535	481	604	530	478	583	519	472	417
1.50	652	577	524	640	571	520	617	557	513	456
2.00	704	639	590	690	630	584	664	613	573	514
2.50	733	674	629	718	664	622	689	644	608	545
3.00	759	707	665	743	695	657	712	673	640	576
4.00	789	746	710	771	733	700	739	707	680	613
5.00	808	771	740	789	756	728	755	729	705	636
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

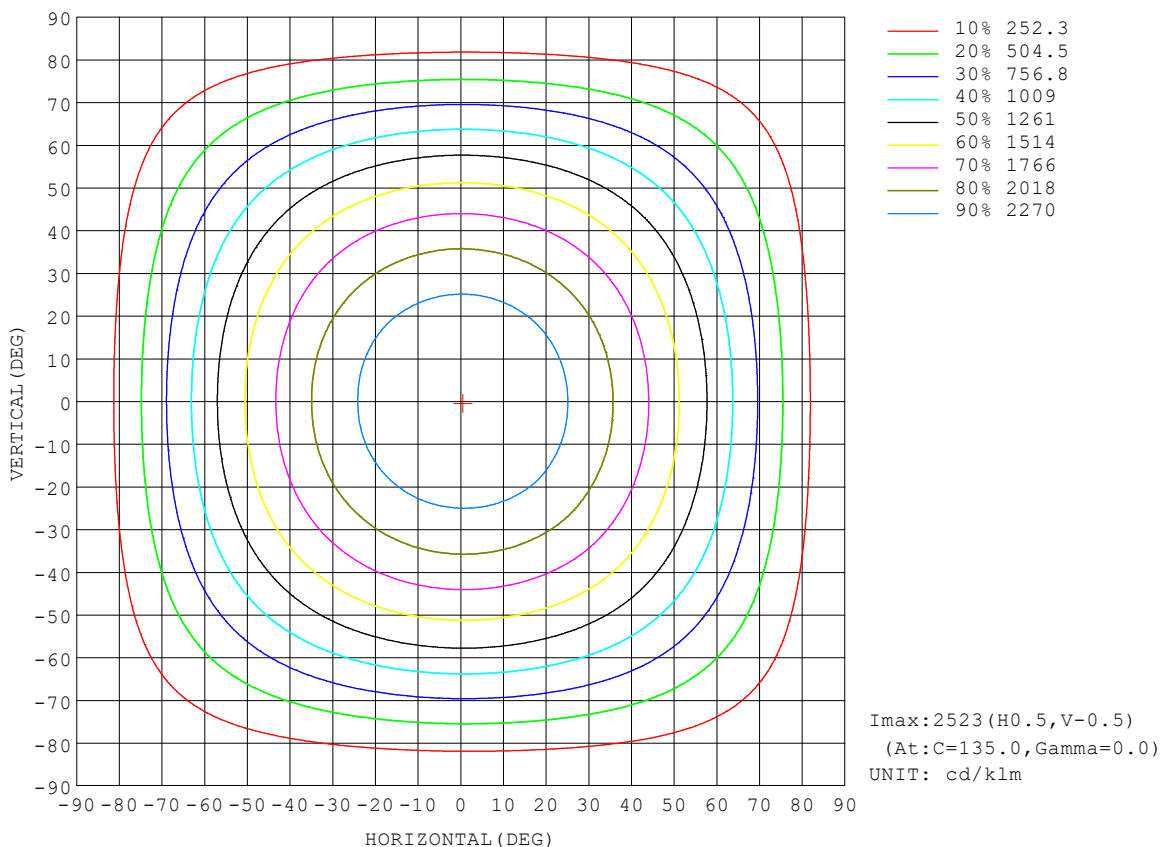
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: DAMIN
 Test Date: 2025-01-22

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 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:276.96V I:0.1757A P:45.871W PF:0.9429 Freq:60.01Hz Lamp Flux:1000x1 lm		
NAME: ASD-BLP-24A67-4P 45 5000K 277	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



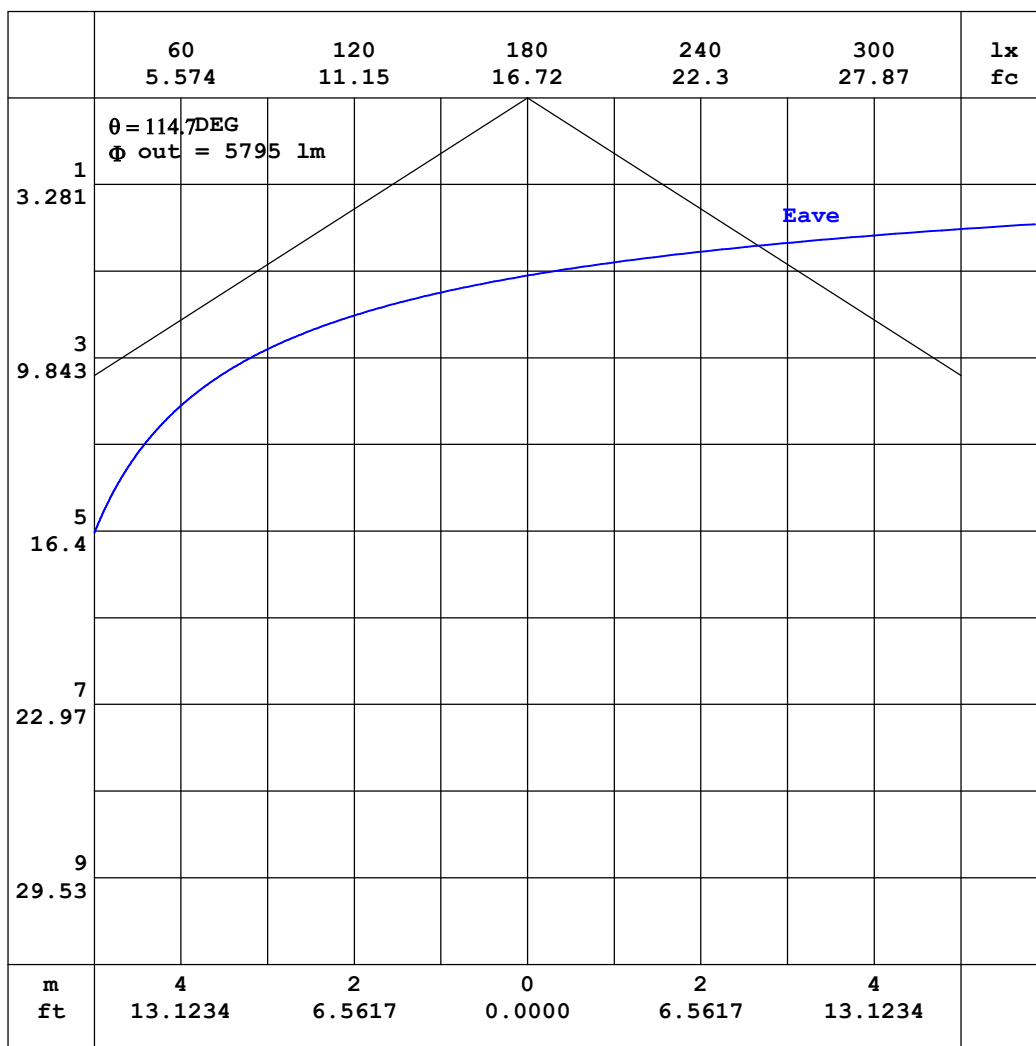
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-01-22

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
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 CURVES

Test:U:276.96V I:0.1757A P:45.871W PF:0.9429 Freq:60.01Hz Lamp Flux:1000x1 lm		
NAME: ASD-BLP-24A67-4P 45 5000K 277	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



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

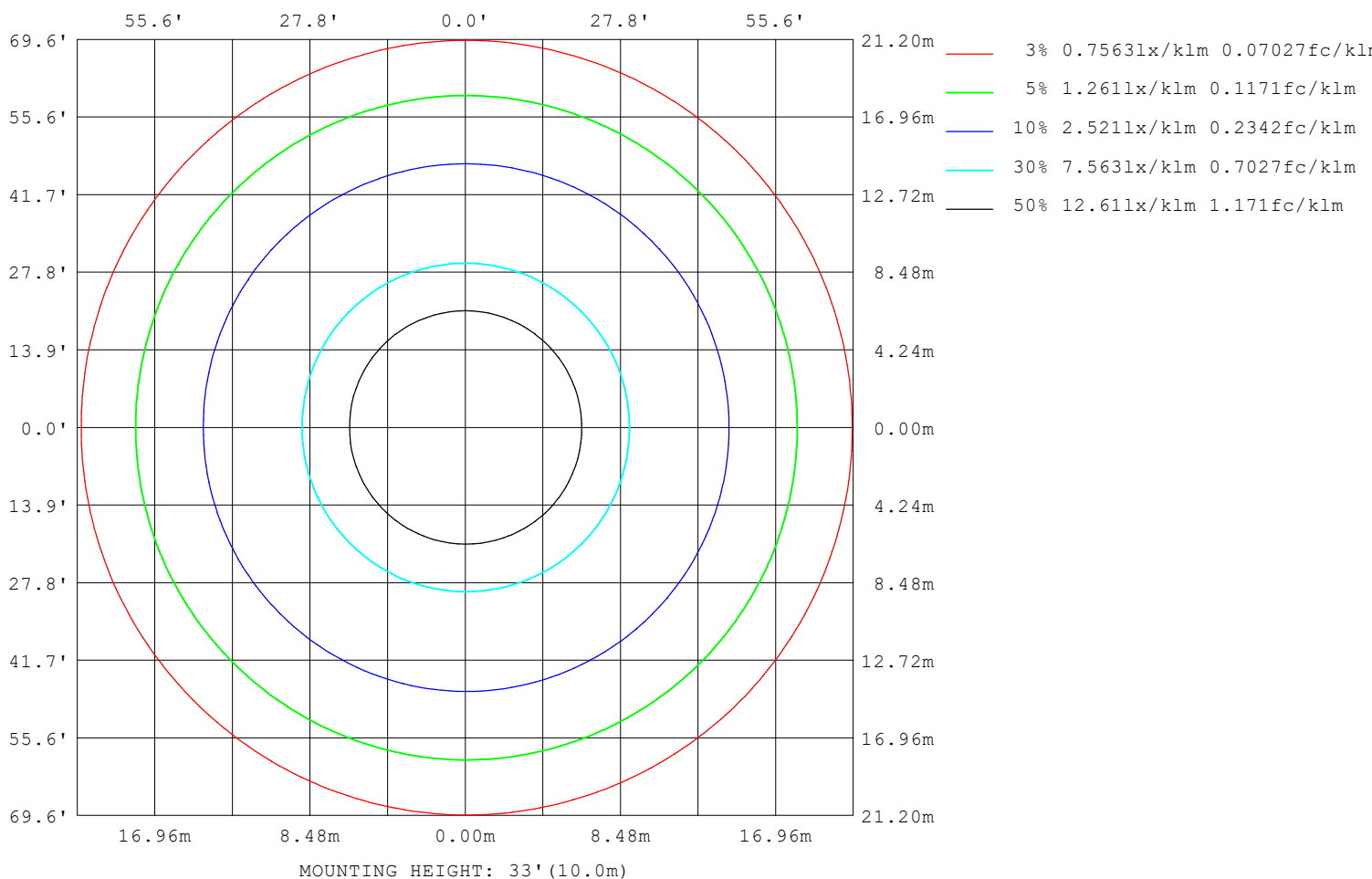
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2025-01-22

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity: 65.0%
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Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Test:U:276.96V I:0.1757A P:45.871W PF:0.9429 Freq:60.01Hz Lamp Flux:1000x1 lm		
NAME: ASD-BLP-24A67-4P 45 5000K 277	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
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C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-01-22

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
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:276.96V I:0.1757A P:45.871W PF:0.9429 Freq:60.01Hz Lamp Flux:1000x1 lm		
NAME: ASD-BLP-24A67-4P 45 5000K 277	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

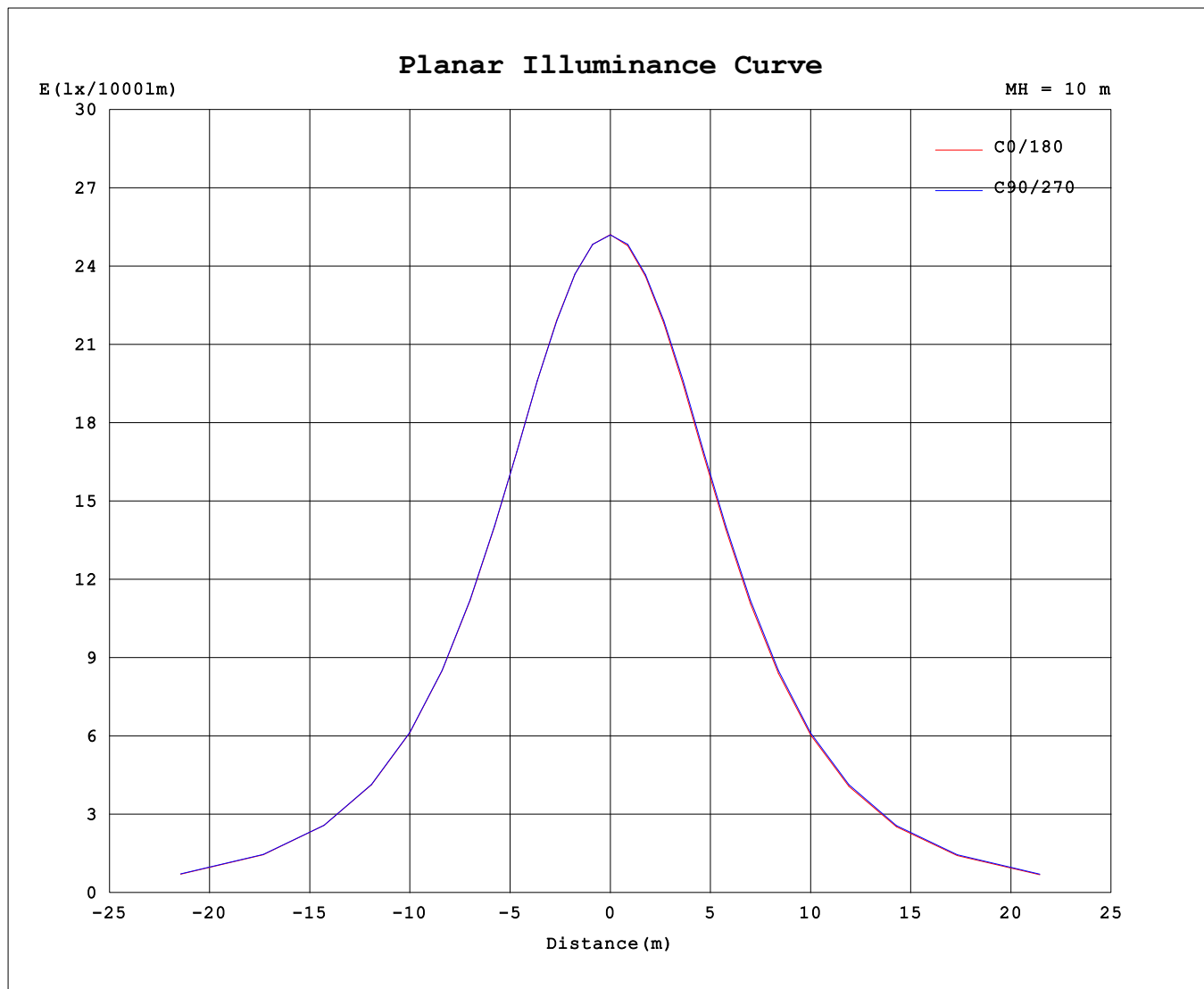
AvgL	cd/m2
L_0~180 (65) av	22269
L_0~180 (75) av	19691
L_0~180 (85) av	15364
L_90~270 (65) av	22650
L_90~270 (75) av	20215
L_90~270 (85) av	16025
L_45 (65) av	22460
L_45 (75) av	19983
L_45 (85) av	15691

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
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γ Range: 0 - 180DEG
γ Interval: 5.0DEG
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
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γ Range: 0 - 180DEG
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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:276.96V I:0.1757A P:45.871W PF:0.9429 Freq:60.01Hz Lamp Flux:1000x1 lm		
NAME: ASD-BLP-24A67-4P 45 5000K 277	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--1

UNIT: cd/klm

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315										
0	2521	2524	2520	2524	2521	2524	2520	2524										
5	2513	2514	2513	2511	2506	2509	2512	2511										
10	2481	2488	2482	2479	2472	2481	2479	2482										
15	2434	2441	2430	2425	2422	2427	2432	2435										
20	2363	2369	2363	2353	2346	2355	2363	2364										
25	2272	2283	2271	2262	2253	2267	2273	2274										
30	2163	2173	2165	2152	2144	2158	2164	2165										
35	2038	2052	2041	2024	2016	2028	2039	2035										
40	1894	1905	1895	1879	1871	1885	1894	1892										
45	1735	1747	1738	1718	1711	1726	1732	1731										
50	1560	1570	1562	1541	1535	1548	1559	1557										
55	1370	1379	1374	1353	1343	1357	1368	1369										
60	1168	1176	1174	1150	1140	1152	1166	1168										
65	954	963	960	938	928	940	955	956										
70	738	746	741	720	710	723	736	739										
75	524	530	526	506	496	510	520	522										
80	320	327	323	304	297	309	316	318										
85	143	147	143	130	125	131	136	139										
90	14.4	10.6	5.63	6.57	7.56	5.47	3.06	10.3										
95	0.46	0.39	0.69	0.54	0.00	0.00	0.08	0.00										
100	0.38	0.31	0.69	0.54	0.00	0.00	0.08	0.00										
105	0.38	0.31	0.69	0.54	0.00	0.00	0.23	0.00										
110	0.38	0.31	0.69	0.54	0.15	0.23	0.54	0.15										
115	0.38	0.31	0.69	0.54	0.15	0.15	0.61	0.23										
120	0.38	0.39	0.69	0.54	0.15	0.15	0.61	0.23										
125	0.38	0.39	0.69	0.54	0.23	0.31	0.69	0.38										
130	0.61	0.70	0.69	0.54	0.46	0.39	0.85	0.46										
135	0.69	0.77	0.69	0.54	0.46	0.39	1.00	0.77										
140	0.69	0.85	0.69	0.54	0.69	0.54	1.08	0.92										
145	0.77	0.93	0.84	0.76	0.92	0.93	1.23	1.22										
150	1.07	1.08	1.00	0.69	1.38	1.08	1.38	1.61										
155	1.07	1.31	1.23	0.77	1.30	1.24	1.69	1.99										
160	1.30	1.31	1.23	1.00	1.46	1.47	1.69	1.91										
165	1.53	1.39	1.38	1.38	1.84	1.85	2.08	1.99										
170	1.99	1.62	1.85	1.84	2.07	2.16	2.00	1.99										
175	2.15	1.78	2.00	1.91	2.07	2.16	1.85	1.99										
180	2.15	1.78	2.00	2.07	2.07	2.16	1.77	1.99										

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-01-22

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2650]
Remarks: