

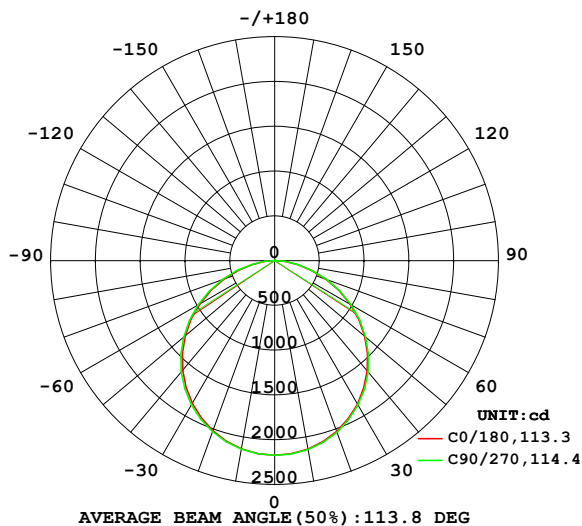
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

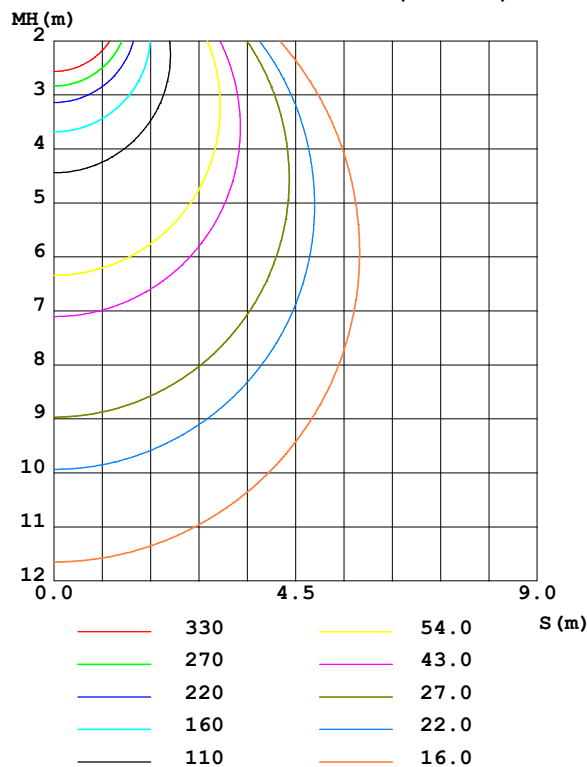
Test:U:276.81V I:0.1745A P:47.733W PF:0.9884 Freq:60.01Hz Lamp Flux:6341.86x1 lm		
NAME: ASD-BLP-24A50-4P 277W 50 5000K		
MFR.: EVERFINE		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 132.86 lm/W			
MODEL		I _{max} (cd)	2174	S/MH(C0/180)	1.26
NOMINAL POWER(W)	50	LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	277	TOTAL FLUX(lm)	6341.9	η UP,DN(C0-180)	0.1,50.0
NOMINAL FLUX(lm)	6341.86	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.8
LAMPS INSIDE	1	η up(%)	0.2	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	99.8	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:2024-06-04

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=1.2590]
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	2137	2139	2142	2136	2134	2135	2136	2138	0- 10	205.8	205.8	3.24,3.24
20	2028	2036	2038	2024	2021	2026	2033	2031	10- 20	590.6	796.4	12.6,12.6
30	1851	1862	1861	1846	1841	1847	1862	1854	20- 30	898.4	1695	26.7,26.7
40	1609	1622	1624	1604	1599	1610	1624	1612	30- 40	1089	2783	43.9,43.9
50	1313	1326	1328	1309	1303	1316	1329	1317	40- 50	1135	3918	61.8,61.8
60	974.3	987.0	988.2	969.4	962.5	975.6	986.6	977.9	50- 60	1029	4948	78,78
70	609.4	619.1	623.1	606.5	598.4	611.1	620.5	614.2	60- 70	788.0	5736	90.4,90.4
80	261.0	269.6	272.7	261.8	252.7	262.4	269.9	265.9	70- 80	460.0	6196	97.7,97.7
90	10.71	8.305	3.268	6.358	8.467	5.680	2.642	7.293	80- 90	136.2	6332	99.8,99.8
100	0.0760	7.228	2.883	5.551	0	0	0.0757	0	90-100	3.503	6335	99.9,99.9
110	0.0760	6.151	2.498	4.744	0.0760	0.0763	0.1109	0.1269	100-110	1.969	6337	99.9,99.9
120	0.0760	5.074	2.113	3.936	0.0760	0.0763	0.1460	0.2277	110-120	1.589	6339	100,100
130	0.0760	3.998	1.728	3.129	0.1520	0.0763	0.1812	0.3285	120-130	1.202	6340	100,100
140	0.0760	2.921	1.343	2.321	0.2280	0.0763	0.2164	0.3915	130-140	0.8380	6341	100,100
150	0.0760	1.844	0.9578	1.514	0.3041	0.3050	0.2515	0.4167	140-150	0.5239	6341	100,100
160	0.0760	0.7672	0.5728	0.7068	0.4561	0.3051	0.2867	0.4420	150-160	0.2692	6342	100,100
170	0.1515	0.2288	0.3803	0.3031	0.4561	0.3051	0.3043	0.4546	160-170	0.1008	6342	100,100
180	0.3041	0.2288	0.3803	0.3031	0.4561	0.3051	0.2282	0.3789	170-180	0.0308	6342	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

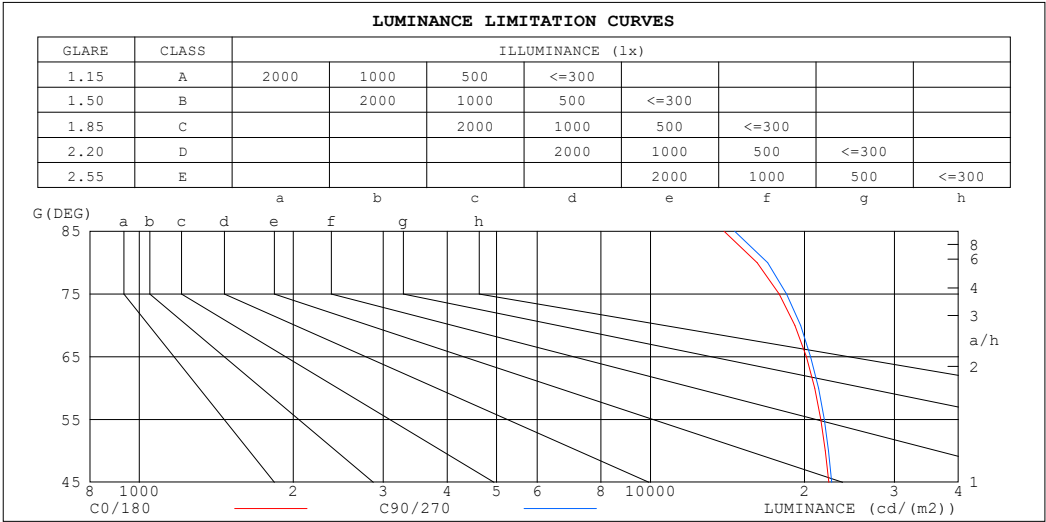
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-06-04

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=1.2590]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINANCE LIMITATION CURVES

Test:U:276.81V I:0.1745A P:47.733W PF:0.9884 Freq:60.01Hz		
Lamp Flux:6341.86x1 lm		
NAME: ASD-BLP-24A50-4P 277W 50 5000K		
MFR.: EVERFINE		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	13927	14609
80	16168	16938
75	17845	18462
70	19164	19650
65	20182	20569
60	20958	21317
55	21538	21871
50	21969	22285
45	22311	22628

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-06-04

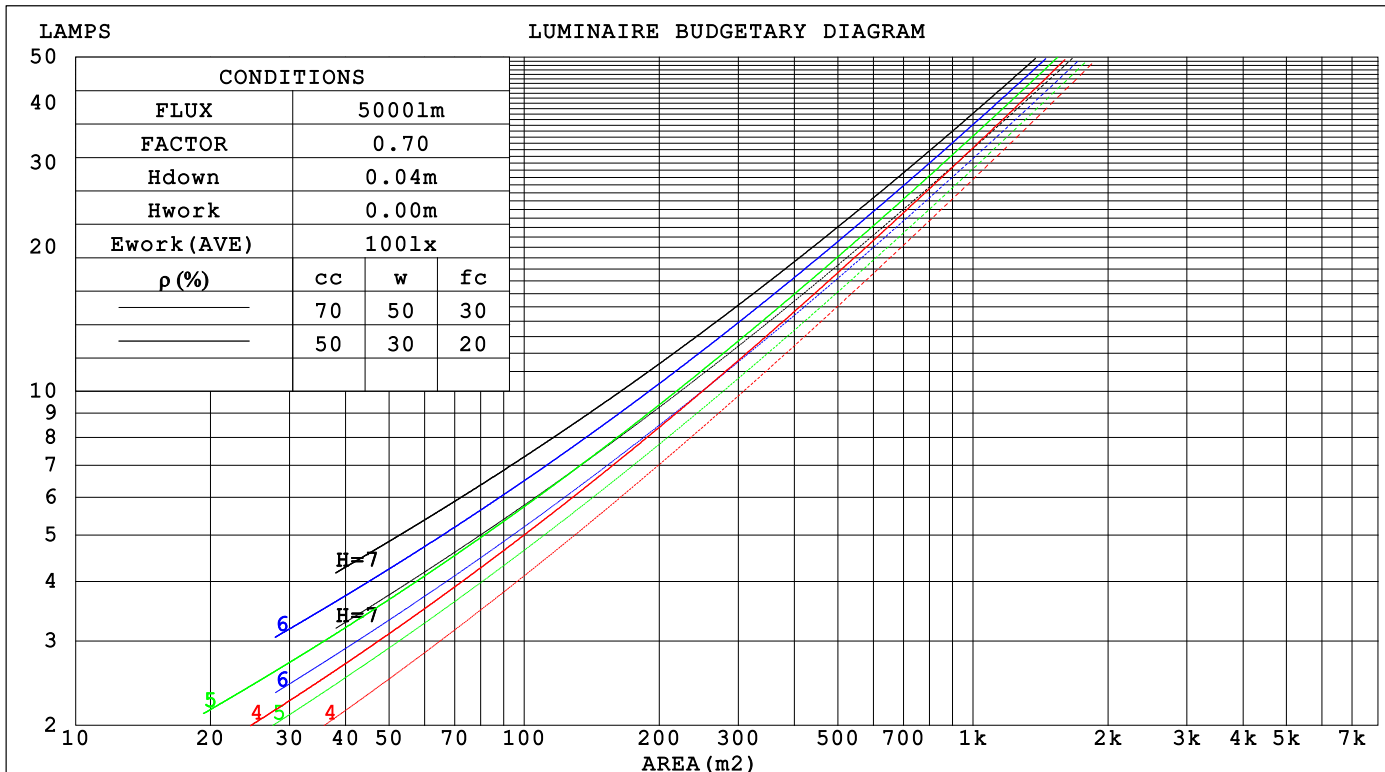
γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2590]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:276.81V I:0.1745A P:47.733W PF:0.9884 Freq:60.01Hz		
Lamp Flux:6341.86x1 lm		
NAME: ASD-BLP-24A50-4P 277W 50 5000K		
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															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	.00														
1.0	1.04	.99	.95	1.01	.97	.94	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83														
2.0	.90	.83	.77	.88	.82	.76	.85	.79	.75	.81	.77	.73	.78	.74	.71	.69														
3.0	.79	.71	.64	.77	.70	.63	.74	.68	.62	.72	.66	.61	.69	.64	.60	.58														
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.64	.57	.52	.61	.56	.51	.49														
5.0	.62	.53	.47	.61	.53	.46	.59	.51	.46	.57	.50	.45	.55	.49	.45	.43														
6.0	.56	.47	.41	.55	.47	.40	.53	.46	.40	.52	.45	.40	.50	.44	.39	.37														
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.47	.40	.35	.46	.39	.35	.33														
8.0	.46	.38	.32	.46	.37	.32	.44	.37	.32	.43	.36	.31	.42	.36	.31	.29														
9.0	.42	.34	.29	.42	.34	.29	.41	.33	.28	.40	.33	.28	.39	.33	.28	.26														
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.25	.24														



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-06-04

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=1.2590]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Test:U:276.81V I:0.1745A P:47.733W PF:0.9884 Freq:60.01Hz		
Lamp Flux:6341.86x1 lm		
NAME: ASD-BLP-24A50-4P 277W 50 5000K		
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	.314	.179	.057	.307	.175	.056	.294	.169	.054	.282	.162	.052	.270	.157	.051		
2.0	.295	.162	.050	.288	.159	.049	.277	.154	.048	.266	.149	.047	.256	.145	.046		
3.0	.272	.145	.043	.267	.143	.043	.256	.139	.042	.247	.135	.041	.238	.132	.041		
4.0	.251	.130	.038	.246	.129	.038	.237	.126	.037	.228	.123	.037	.220	.120	.036		
5.0	.232	.118	.034	.227	.117	.034	.219	.114	.034	.211	.112	.033	.204	.109	.033		
6.0	.215	.108	.031	.211	.107	.031	.204	.104	.030	.197	.102	.030	.190	.100	.030		
7.0	.200	.099	.028	.196	.098	.028	.190	.096	.028	.184	.094	.027	.178	.092	.027		
8.0	.186	.091	.026	.183	.090	.026	.178	.089	.025	.172	.087	.025	.167	.086	.025		
9.0	.175	.085	.024	.172	.084	.024	.167	.082	.023	.162	.081	.023	.157	.080	.023		
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.152	.076	.022	.148	.075	.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	.192	.192	.192	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021		
1.0	.182	.157	.135	.156	.135	.116	.106	.093	.080	.061	.054	.047	.020	.017	.015		
2.0	.174	.133	.099	.149	.115	.085	.102	.079	.060	.059	.046	.035	.019	.015	.011		
3.0	.166	.116	.075	.142	.100	.065	.098	.069	.046	.056	.040	.027	.018	.013	.009		
4.0	.159	.102	.059	.136	.088	.052	.094	.062	.036	.054	.036	.021	.017	.012	.007		
5.0	.151	.092	.048	.130	.079	.042	.089	.056	.030	.052	.033	.018	.017	.011	.006		
6.0	.144	.084	.040	.124	.072	.035	.085	.051	.025	.049	.030	.015	.016	.010	.005		
7.0	.137	.077	.034	.118	.066	.030	.081	.047	.021	.047	.027	.013	.015	.009	.004		
8.0	.131	.071	.030	.112	.061	.026	.078	.043	.018	.045	.025	.011	.015	.008	.004		
9.0	.124	.066	.026	.107	.057	.023	.074	.040	.016	.043	.024	.010	.014	.008	.003		
10.0	.119	.062	.024	.102	.053	.021	.071	.038	.015	.041	.022	.009	.013	.007	.003		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-06-04

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=1.2590]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

Test:U:276.81V I:0.1745A P:47.733W PF:0.9884 Freq:60.01Hz Lamp Flux:6341.86x1 lm		
NAME: ASD-BLP-24A50-4P 277W 50 5000K		
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	45	38	56	45	38	55	45	38	32
0.80	67	55	48	66	55	48	64	54	47	40
1.00	76	64	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	64	78	70	64	56
1.50	88	78	71	86	77	70	83	75	69	61
2.00	95	86	79	93	85	79	89	82	77	69
2.50	99	91	85	96	89	84	93	87	82	73
3.00	102	95	89	100	93	88	96	90	86	77
4.00	106	100	95	104	98	94	99	95	91	82
5.00	108	104	99	106	102	98	101	98	95	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

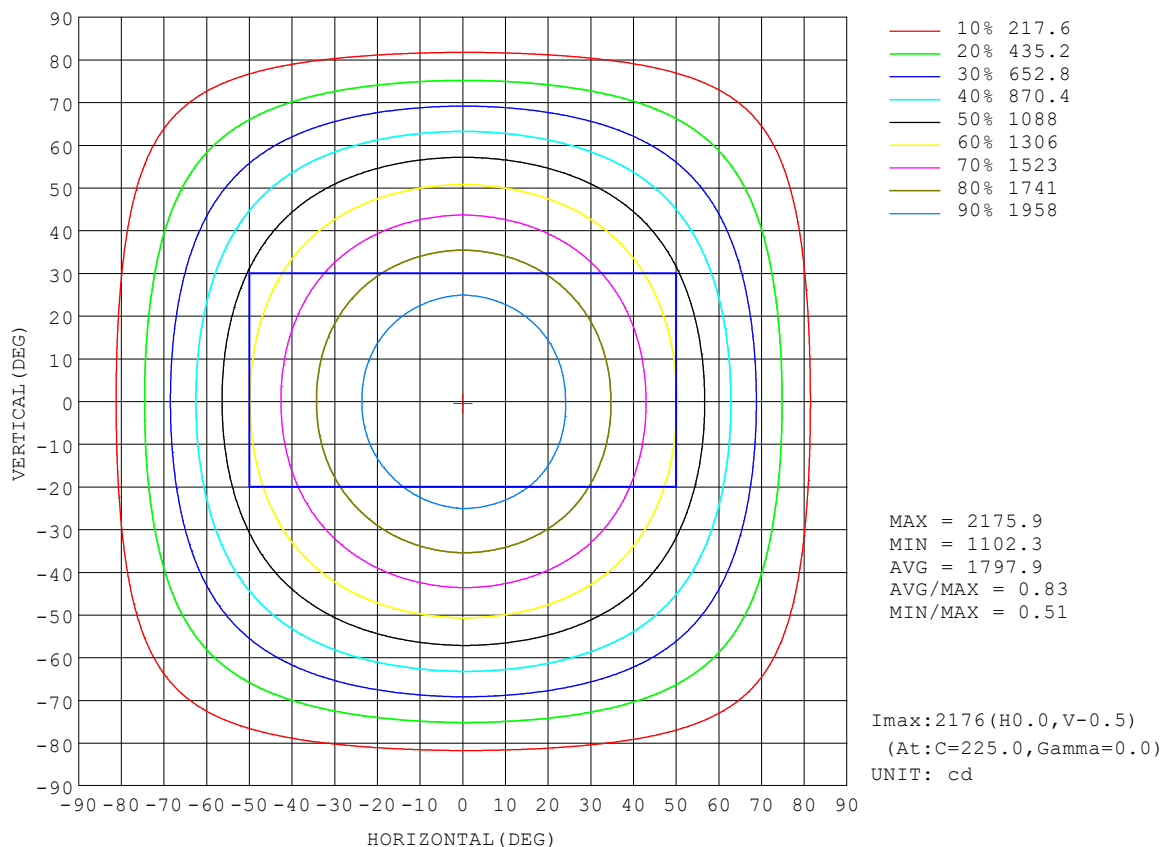
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-06-04

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 γ Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2590]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Test:U:276.81V I:0.1745A P:47.733W PF:0.9884 Freq:60.01Hz Lamp Flux:6341.86x1 lm		
NAME: ASD-BLP-24A50-4P 277W 50 5000K		
MFR.: EVERFINE		



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2024-06-04

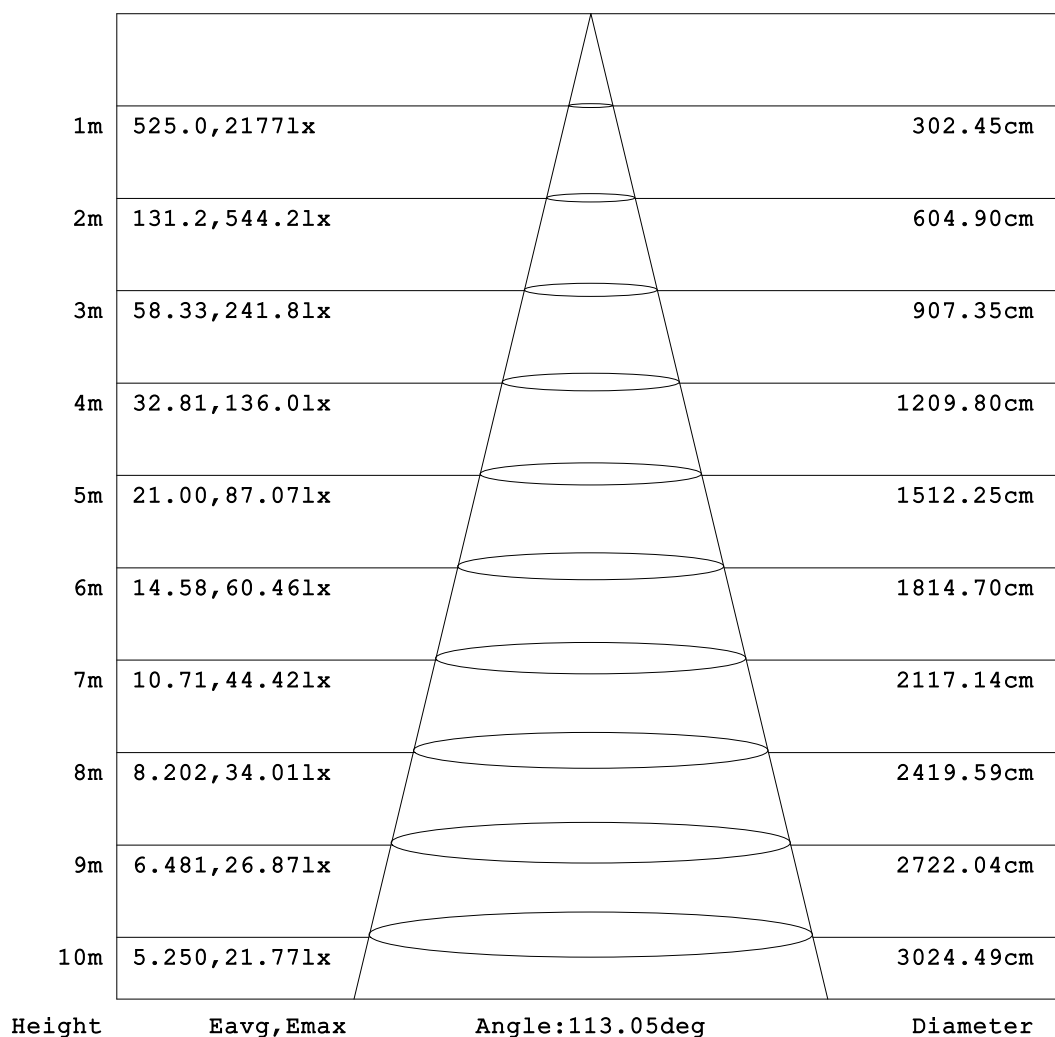
γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity: 65.0%
Test Distance: 26.000m [K=1.2590]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:276.81V I:0.1745A P:47.733W PF:0.9884 Freq:60.01Hz Lamp Flux:6341.86x1 lm		
NAME: ASD-BLP-24A50-4P 277W 50 5000K		
MFR.: EVERFINE		

Flux out:4948 lm



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

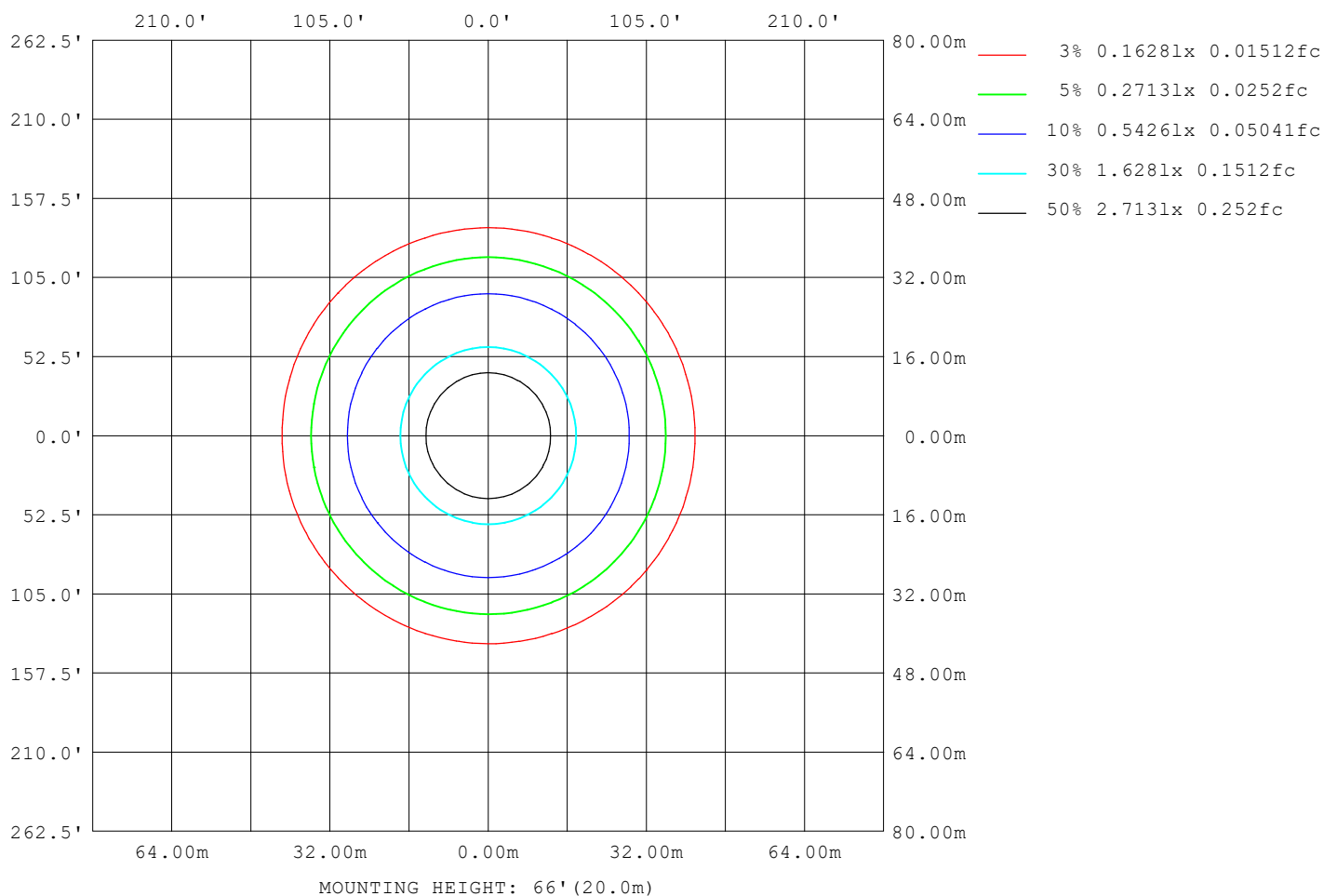
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2024-06-04

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=1.2590]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Test:U:276.81V I:0.1745A P:47.733W PF:0.9884 Freq:60.01Hz Lamp Flux:6341.86x1 lm		
NAME: ASD-BLP-24A50-4P 277W 50 5000K		
MFR.: EVERFINE		



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2024-06-04

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=1.2590]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LED Avg.L Report

Test:U:276.81V I:0.1745A P:47.733W PF:0.9884 Freq:60.01Hz Lamp Flux:6341.86x1 lm		
NAME: ASD-BLP-24A50-4P 277W 50 5000K		
MFR.: EVERFINE		

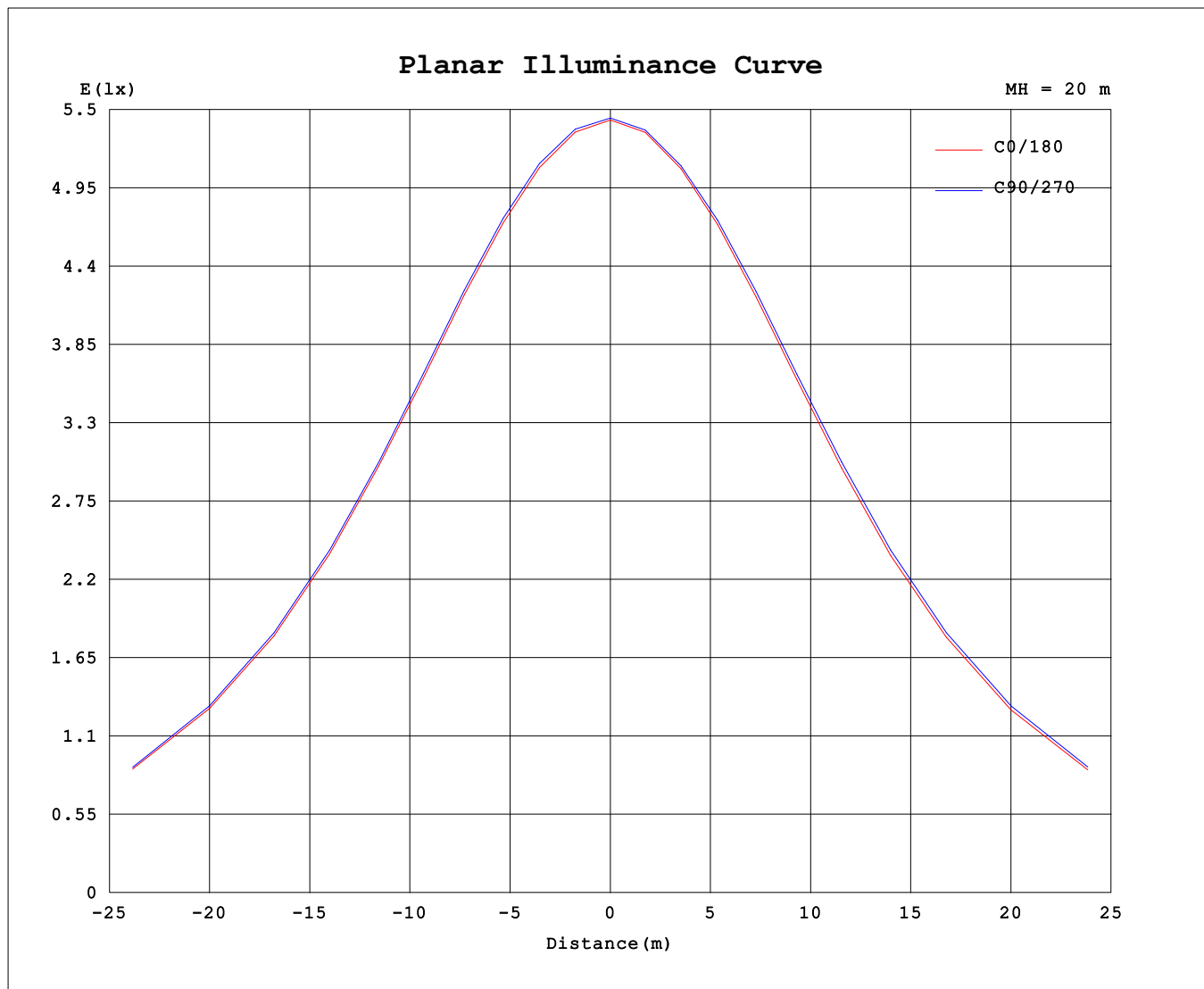
AvgL	cd/m2
L_0~180 (65) av	20063
L_0~180 (75) av	17670
L_0~180 (85) av	13708
L_90~270 (65) av	20527
L_90~270 (75) av	18379
L_90~270 (85) av	14549
L_45 (65) av	20296
L_45 (75) av	18029
L_45 (85) av	14222

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
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Test Speed: HIGH
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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=1.2590]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: DAMIN
 Test Date: 2024-06-04

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=1.2590]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:276.81V I:0.1745A P:47.733W PF:0.9884 Freq:60.01Hz		
Lamp Flux:6341.86x1 lm		
NAME: ASD-BLP-24A50-4P 277W 50 5000K		
MFR.: EVERFINE		

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315										
0	2174	2174	2174	2174	2174	2174	2174	2174										
5	2165	2166	2167	2165	2165	2164	2165	2166										
10	2137	2139	2142	2136	2134	2135	2136	2138										
15	2091	2098	2099	2089	2087	2086	2094	2095										
20	2028	2036	2038	2024	2021	2026	2033	2031										
25	1947	1958	1958	1943	1939	1943	1954	1950										
30	1851	1862	1861	1846	1841	1847	1862	1854										
35	1737	1749	1751	1732	1726	1737	1750	1740										
40	1609	1622	1624	1604	1599	1610	1624	1612										
45	1467	1481	1483	1463	1457	1469	1483	1471										
50	1313	1326	1328	1309	1303	1316	1329	1317										
55	1149	1161	1163	1143	1138	1150	1163	1151										
60	974	987	988	969	962	976	987	978										
65	793	804	806	788	781	795	805	798										
70	609	619	623	607	598	611	620	614										
75	429	439	443	428	420	431	440	435										
80	261	270	273	262	253	262	270	266										
85	113	117	118	112	109	114	117	117										
90	10.7	8.30	3.27	6.36	8.47	5.68	2.64	7.29										
95	0.23	7.77	3.08	5.95	0.00	0.00	0.00	0.00										
100	0.08	7.23	2.88	5.55	0.00	0.00	0.08	0.00										
105	0.08	6.69	2.69	5.15	0.08	0.08	0.09	0.08										
110	0.08	6.15	2.50	4.74	0.08	0.08	0.11	0.13										
115	0.08	5.61	2.31	4.34	0.08	0.08	0.13	0.18										
120	0.08	5.07	2.11	3.94	0.08	0.08	0.15	0.23										
125	0.08	4.54	1.92	3.53	0.11	0.08	0.16	0.28										
130	0.08	4.00	1.73	3.13	0.15	0.08	0.18	0.33										
135	0.08	3.46	1.54	2.73	0.19	0.08	0.20	0.38										
140	0.08	2.92	1.34	2.32	0.23	0.08	0.22	0.39										
145	0.08	2.38	1.15	1.92	0.27	0.23	0.23	0.40										
150	0.08	1.84	0.96	1.51	0.30	0.31	0.25	0.42										
155	0.08	1.31	0.77	1.11	0.30	0.31	0.27	0.43										
160	0.08	0.77	0.57	0.71	0.46	0.31	0.29	0.44										
165	0.08	0.23	0.38	0.30	0.46	0.31	0.30	0.45										
170	0.15	0.23	0.38	0.30	0.46	0.31	0.30	0.45										
175	0.30	0.23	0.38	0.30	0.46	0.31	0.23	0.38										
180	0.30	0.23	0.38	0.30	0.46	0.31	0.23	0.38										

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-06-04

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=1.2590]
Remarks: