

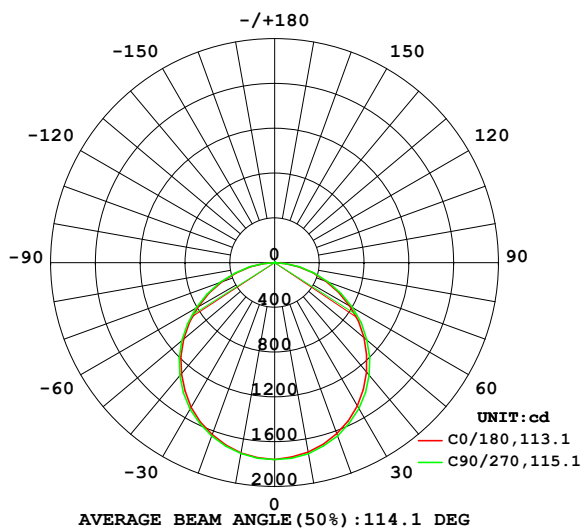
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

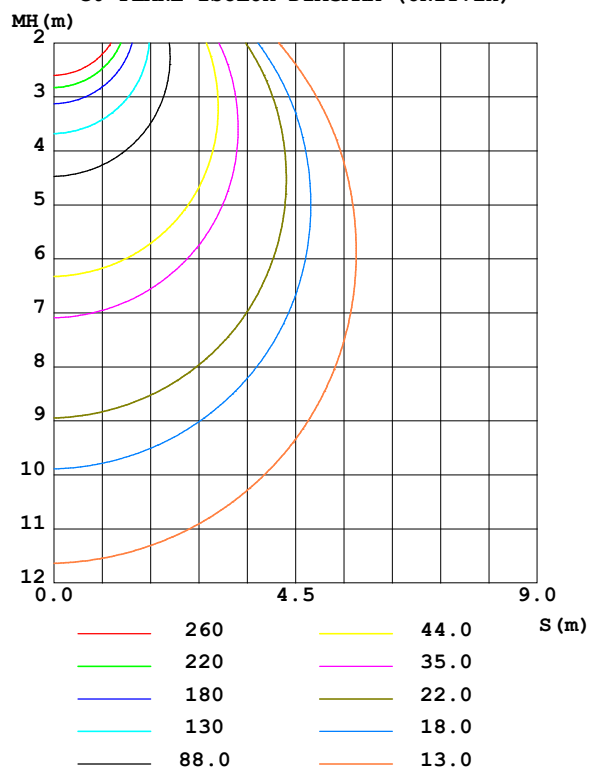
Test:U:276.87V I:0.1403A P:38.250W PF:0.9848 Freq:60.01Hz		
Lamp Flux:5137.19x1 lm		
NAME: ASD-BLP-14A40-4P		
SPEC.:5000K		
MFR.: ASD Lighting Corp		

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 134.30 lm/W
MODEL		I _{max} (cd)	1758	S/MH(C0/180)		1.26
NOMINAL POWER(W)	40	LOR(%)	100.0	S/MH(C90/270)		1.28
RATED VOLTAGE(V)	277	TOTAL FLUX(lm)	5137.2	η UP,DN(C0-180)		0.1,49.8
NOMINAL FLUX(lm)	5137.19	CIE CLASS	DIRECT	η UP,DN(C180-360)		0.1,50.1
LAMPS INSIDE	1	η up(%)	0.1	CIBSE SHR NOM		1.25
TEST VOLTAGE(V)	277	η down(%)	99.9	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℃
Operators:DAMIN
Test Date:2025-03-07

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=1.2600]
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	1718	1719	1733	1724	1727	1725	1731	1721	0- 10	166.2	166.2	3.23,3.23
20	1625	1630	1646	1635	1634	1638	1647	1633	10- 20	476.4	642.6	12.5,12.5
30	1479	1490	1507	1494	1492	1498	1512	1492	20- 30	724.6	1367	26.6,26.6
40	1278	1290	1313	1303	1298	1306	1318	1295	30- 40	877.7	2245	43.7,43.7
50	1041	1045	1077	1066	1061	1074	1084	1055	40- 50	914.9	3160	61.5,61.5
60	775.0	778.5	804.0	796.7	790.0	800.0	813.5	781.3	50- 60	832.3	3992	77.7,77.7
70	488.7	488.7	512.3	504.2	499.3	509.1	517.8	497.3	60- 70	641.5	4634	90.2,90.2
80	219.1	220.0	226.7	225.0	222.3	227.6	229.5	222.4	70- 80	381.3	5015	97.6,97.6
90	2.456	1.721	1.556	2.530	2.840	2.278	1.364	1.955	80- 90	116.2	5131	99.9,99.9
100	0.7546	0.7656	0.9144	1.362	0.6786	0.2297	0.5334	0.5295	90-100	1.233	5132	99.9,99.9
110	0.7546	0.7656	0.9144	0.6051	0.5282	0.2297	0.8382	0.6051	100-110	0.7155	5133	99.9,99.9
120	0.7546	0.7656	0.9144	0.6051	0.3012	0.2297	0.8382	0.6051	110-120	0.6434	5134	99.9,99.9
130	0.7546	0.7656	0.9144	0.6051	0.1509	0.3063	0.8382	1.361	120-130	0.5765	5134	99.9,99.9
140	0.7546	1.147	0.9906	0.6053	0.1514	0.4591	1.067	1.891	130-140	0.6195	5135	100,100
150	1.658	2.220	1.295	1.285	0.6047	0.8421	1.295	1.891	140-150	0.6945	5136	100,100
160	2.037	2.833	1.448	1.891	0.9063	1.074	1.599	1.891	150-160	0.7109	5136	100,100
170	3.017	3.063	1.829	2.194	2.416	2.450	2.438	1.891	160-170	0.5668	5137	100,100
180	2.943	2.909	1.905	2.194	2.188	2.909	2.896	1.891	170-180	0.2388	5137	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:2025-03-07

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=1.2600]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINANCE LIMITATION CURVES

Test:U:276.87V I:0.1403A P:38.250W PF:0.9848 Freq:60.01Hz

Lamp Flux:5137.19x1 lm

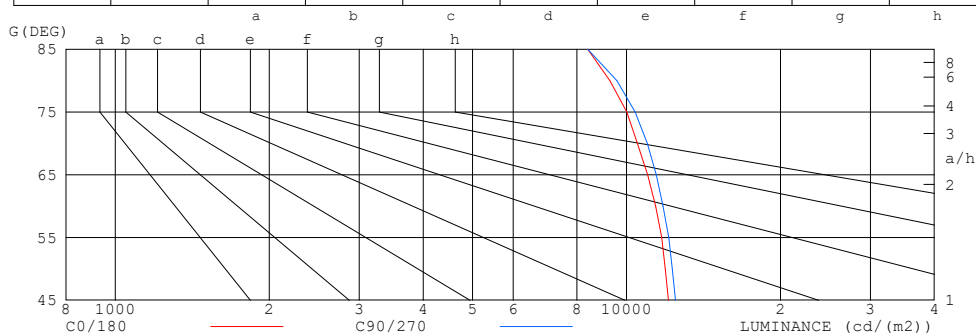
NAME: ASD-BLP-14A40-4P

SPEC.:

MFR.: EVERFINE

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	8396	8402
80	9275	9570
75	10011	10391
70	10503	10982
65	10991	11425
60	11394	11788
55	11714	12095
50	11905	12285
45	12078	12463

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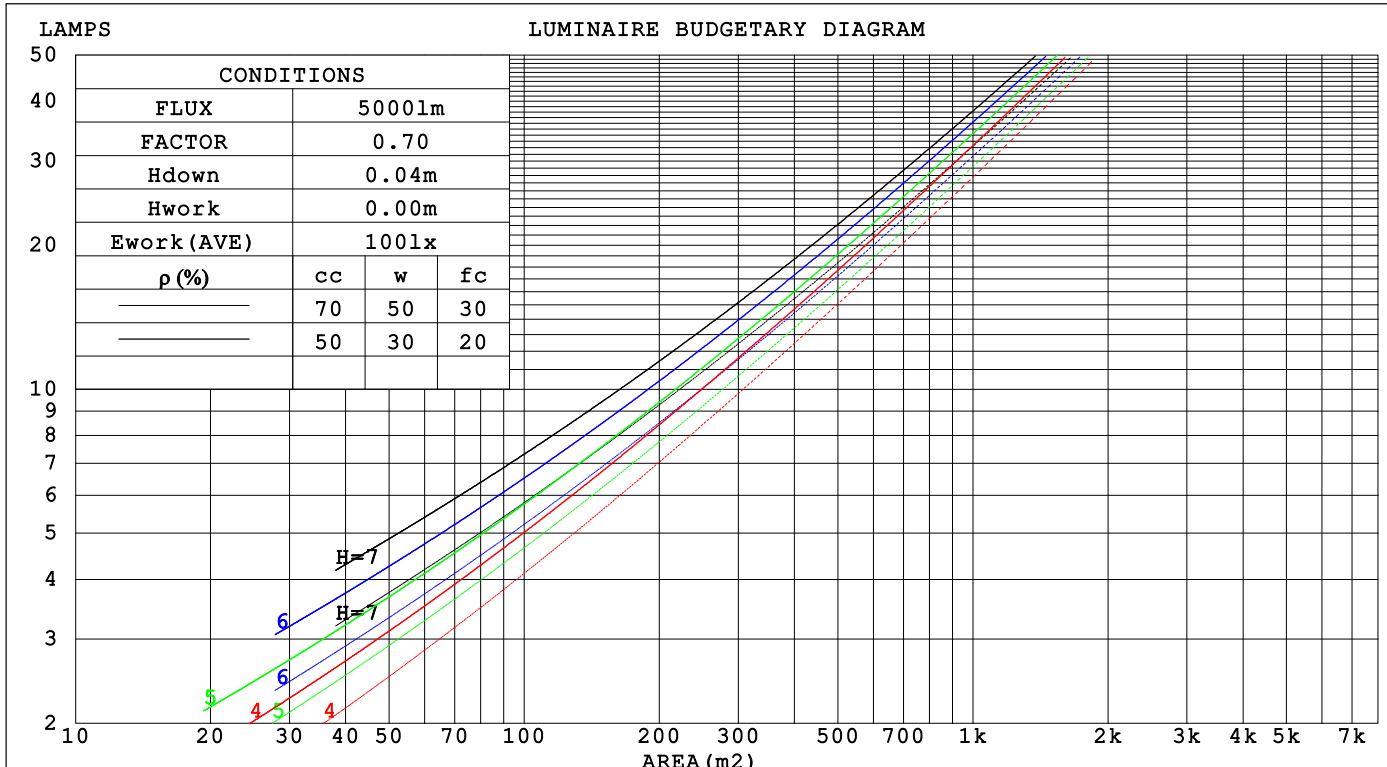
γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2600]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:276.87V I:0.1403A P:38.250W PF:0.9848 Freq:60.01Hz		
Lamp Flux:5137.19x1 lm		
NAME: ASD-BLP-14A40-4P		
SPEC.:		
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	1.03	.99	.95	1.01	.97	.94	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.84	.79	.74	.81	.77	.73	.78	.74	.71	.69
3.0	.79	.70	.64	.77	.69	.63	.74	.68	.62	.71	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.68	.60	.54	.66	.59	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.46	.57	.50	.45	.55	.49	.45	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.46	.40	.51	.45	.39	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.41	.35	.48	.41	.35	.47	.40	.35	.45	.39	.35	.33
8.0	.46	.38	.32	.46	.37	.32	.44	.37	.31	.43	.36	.31	.42	.36	.31	.29
9.0	.42	.34	.29	.42	.34	.28	.41	.33	.28	.40	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.30	.26	.37	.30	.25	.36	.30	.25	.24



C Range: 0 - 360DEG
C Interval: 45.0DEG
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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=1.2600]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Test:U:276.87V I:0.1403A P:38.250W PF:0.9848 Freq:60.01Hz		
Lamp Flux:5137.19x1 lm		
NAME: ASD-BLP-14A40-4P		
SPEC.:		
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	.177	.056	.296	.170	.054	.284	.164	.053	.272	.158	.051		
2.0	.296	.162	.050	.290	.160	.049	.278	.155	.048	.267	.150	.047	.257	.145	.046		
3.0	.273	.145	.044	.268	.143	.043	.257	.139	.042	.248	.136	.042	.239	.132	.041		
4.0	.252	.131	.038	.247	.129	.038	.238	.126	.038	.229	.123	.037	.221	.120	.037		
5.0	.232	.118	.034	.228	.117	.034	.220	.114	.034	.212	.112	.033	.205	.109	.033		
6.0	.215	.108	.031	.211	.107	.031	.204	.105	.030	.197	.102	.030	.191	.100	.030		
7.0	.200	.099	.028	.197	.098	.028	.190	.096	.028	.184	.094	.027	.178	.093	.027		
8.0	.187	.091	.026	.184	.090	.026	.178	.089	.025	.172	.087	.025	.167	.086	.025		
9.0	.175	.085	.024	.172	.084	.024	.167	.083	.023	.162	.081	.023	.157	.080	.023		
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.153	.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	.191	.191	.191	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021		
1.0	.182	.157	.135	.155	.135	.116	.106	.093	.080	.061	.054	.047	.020	.017	.015		
2.0	.174	.133	.098	.149	.114	.085	.102	.079	.059	.059	.046	.035	.019	.015	.011		
3.0	.166	.115	.075	.142	.099	.065	.098	.069	.045	.056	.040	.027	.018	.013	.009		
4.0	.158	.102	.059	.136	.088	.051	.093	.061	.036	.054	.036	.021	.017	.012	.007		
5.0	.151	.092	.048	.130	.079	.042	.089	.055	.029	.052	.032	.017	.017	.011	.006		
6.0	.144	.083	.040	.124	.072	.035	.085	.050	.025	.049	.030	.015	.016	.010	.005		
7.0	.137	.076	.034	.118	.066	.030	.081	.046	.021	.047	.027	.012	.015	.009	.004		
8.0	.130	.071	.029	.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	.118	.061	.023	.102	.053	.020	.071	.037	.014	.041	.022	.009	.013	.007	.003		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-03-07

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=1.2600]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR(Unified Glare Rating) Table

Test:U:276.87V I:0.1403A P:38.250W PF:0.9848 Freq:60.01Hz										
Lamp Flux:5137.19x1 lm										
NAME: ASD-BLP-14A40-4P										
SPEC.:										
MFR.: EVERFINE										
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	15.7	17.2	16.0	17.4	17.6	15.8	17.4	16.1	17.6	17.8
3H	17.2	18.6	17.5	18.9	19.1	17.4	18.8	17.7	19.0	19.3
4H	17.8	19.2	18.2	19.4	19.7	18.0	19.4	18.3	19.6	19.9
6H	18.3	19.6	18.6	19.9	20.1	18.5	19.8	18.8	20.0	20.3
8H	18.4	19.7	18.8	20.0	20.3	18.6	19.8	19.0	20.1	20.4
12H	18.5	19.7	18.9	20.0	20.3	18.7	19.9	19.1	20.2	20.5
4H 2H	16.3	17.7	16.6	17.9	18.2	16.4	17.8	16.7	18.0	18.3
3H	18.0	19.2	18.4	19.5	19.8	18.2	19.3	18.5	19.6	19.9
4H	18.8	19.9	19.1	20.2	20.5	18.9	20.0	19.3	20.3	20.7
6H	19.4	20.3	19.8	20.7	21.1	19.5	20.5	19.9	20.8	21.2
8H	19.6	20.5	20.0	20.8	21.2	19.7	20.6	20.1	21.0	21.4
12H	19.7	20.5	20.1	20.9	21.3	19.8	20.7	20.3	21.0	21.5
8H 4H	19.1	20.0	19.5	20.3	20.7	19.2	20.1	19.6	20.5	20.8
6H	19.8	20.5	20.2	20.9	21.4	19.9	20.7	20.4	21.1	21.5
8H	20.1	20.7	20.5	21.2	21.6	20.2	20.9	20.7	21.3	21.7
12H	20.3	20.9	20.8	21.3	21.8	20.4	21.0	20.9	21.4	21.9
12H 4H	19.1	19.9	19.5	20.3	20.7	19.2	20.0	19.6	20.4	20.8
6H	19.9	20.5	20.3	20.9	21.4	20.0	20.6	20.4	21.1	21.5
8H	20.2	20.7	20.7	21.2	21.7	20.3	20.9	20.8	21.3	21.8
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.2				

CIE Pub.117, 5137 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 5.7)
Area: 0.13622 m2

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Test Speed: HIGH
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Operators:DAMIN
Test Date:2025-03-07

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=1.2600]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

Test:U:276.87V I:0.1403A P:38.250W PF:0.9848 Freq:60.01Hz		
Lamp Flux:5137.19x1 lm		
NAME: ASD-BLP-14A40-4P		
SPEC.:		
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	75	64	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	64	78	70	63	56
1.50	88	77	70	86	77	70	83	75	69	61
2.00	94	86	79	93	85	78	89	82	77	69
2.50	98	91	84	96	89	83	92	86	82	73
3.00	102	95	89	100	93	88	96	90	86	77
4.00	106	100	95	103	98	94	99	95	91	82
5.00	108	103	99	106	101	98	101	98	95	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

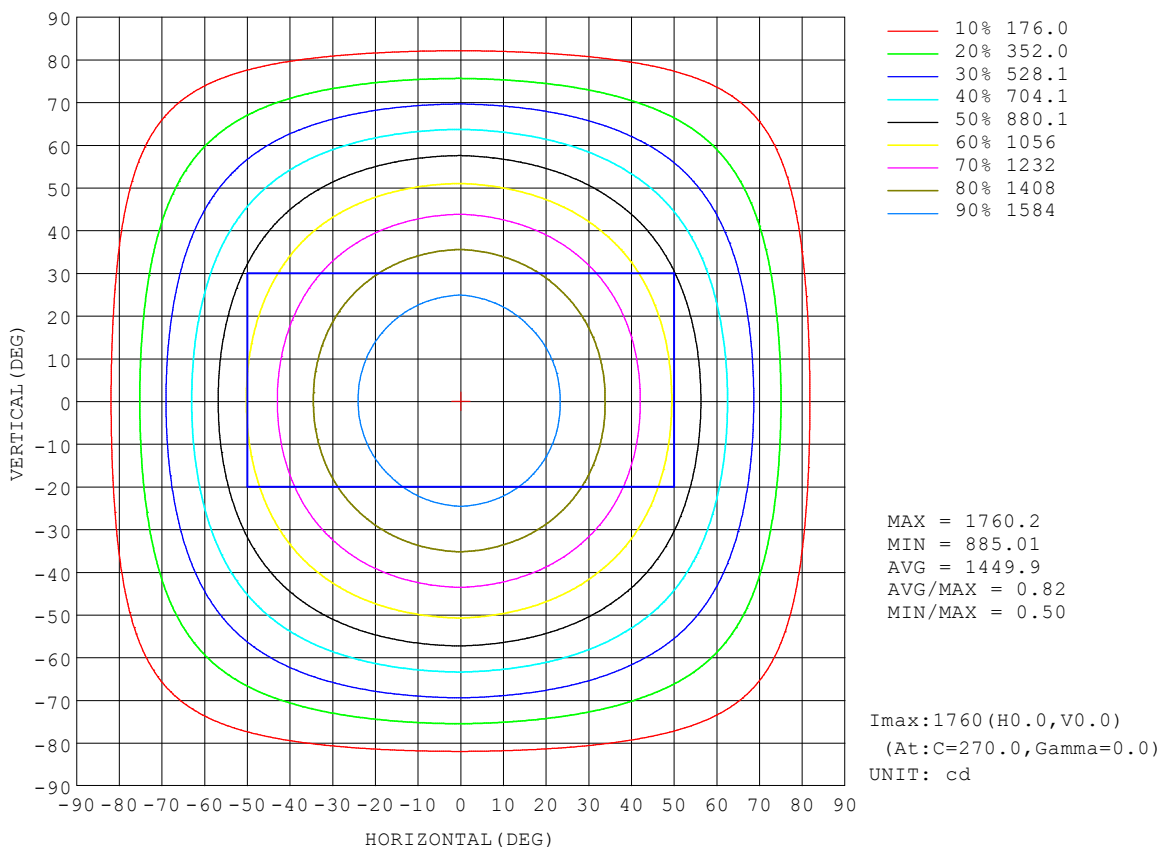
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EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Test:U:276.87V I:0.1403A P:38.250W PF:0.9848 Freq:60.01Hz		
Lamp Flux:5137.19x1 lm		
NAME: ASD-BLP-14A40-4P		
SPEC.:		
MFR.: EVERFINE		



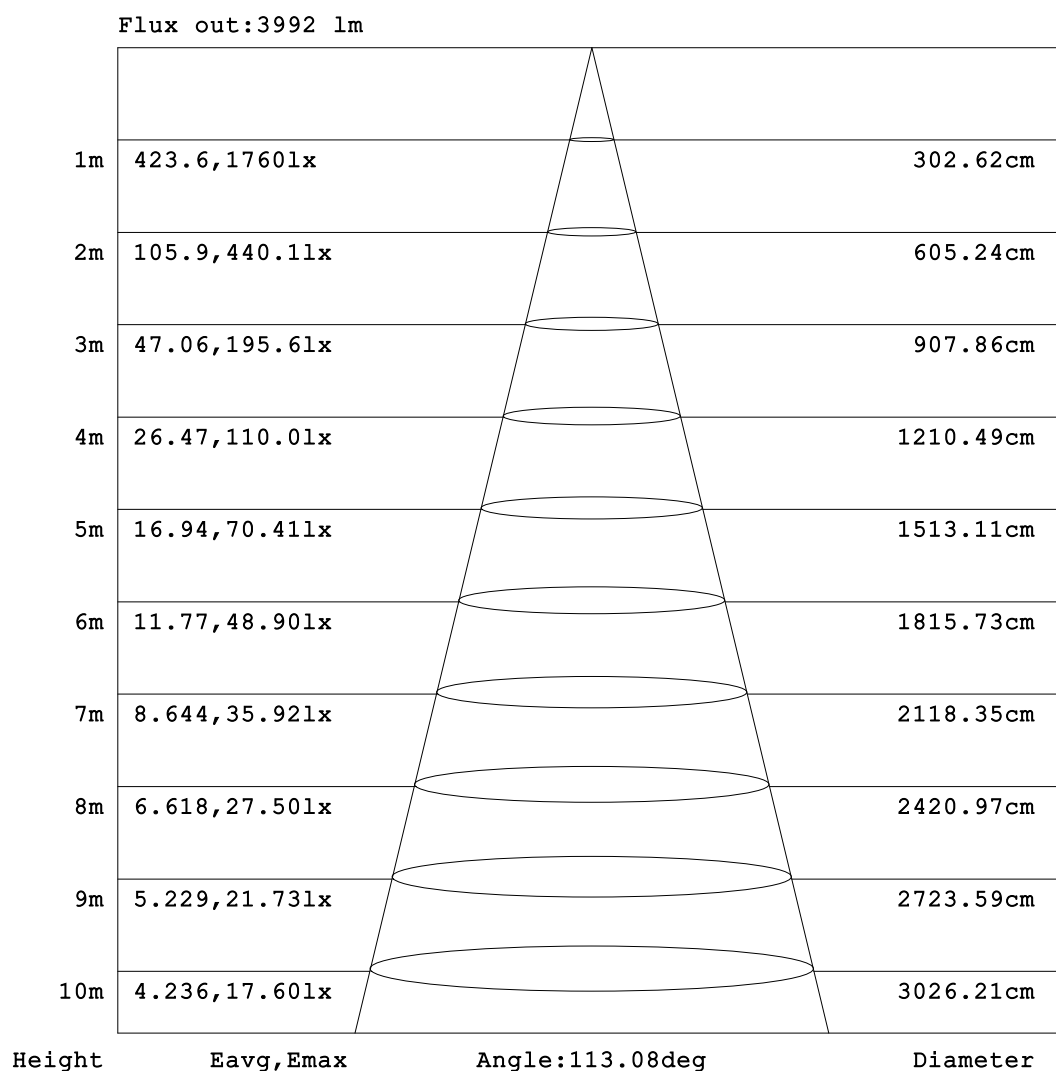
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-03-07

γ Range: 0 - 180DEG
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Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
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EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:276.87V I:0.1403A P:38.250W PF:0.9848 Freq:60.01Hz Lamp Flux:5137.19x1 lm		
NAME: ASD-BLP-14A40-4P		
SPEC.:		
MFR.: EVERFINE		



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

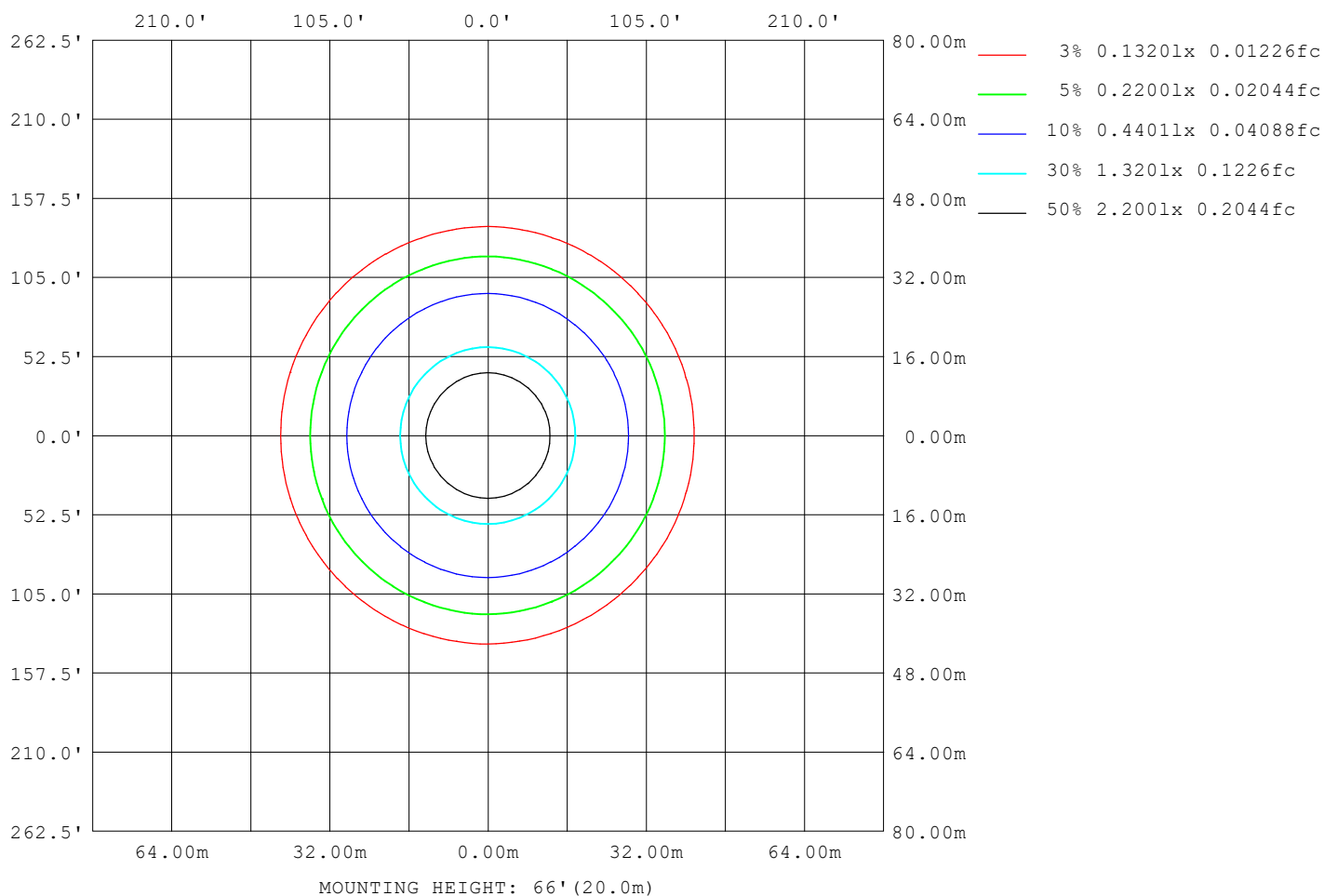
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ISOLUX DIAGRAM

Test:U:276.87V I:0.1403A P:38.250W PF:0.9848 Freq:60.01Hz Lamp Flux:5137.19x1 lm		
NAME: ASD-BLP-14A40-4P		
SPEC.:		
MFR.: EVERFINE		



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
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γ Range: 0 - 180DEG
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Test Distance:26.000m [K=1.2600]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LED Avg.L Report

Test:U:276.87V I:0.1403A P:38.250W PF:0.9848 Freq:60.01Hz Lamp Flux:5137.19x1 lm		
NAME: ASD-BLP-14A40-4P		
SPEC.:		
MFR.: EVERFINE		

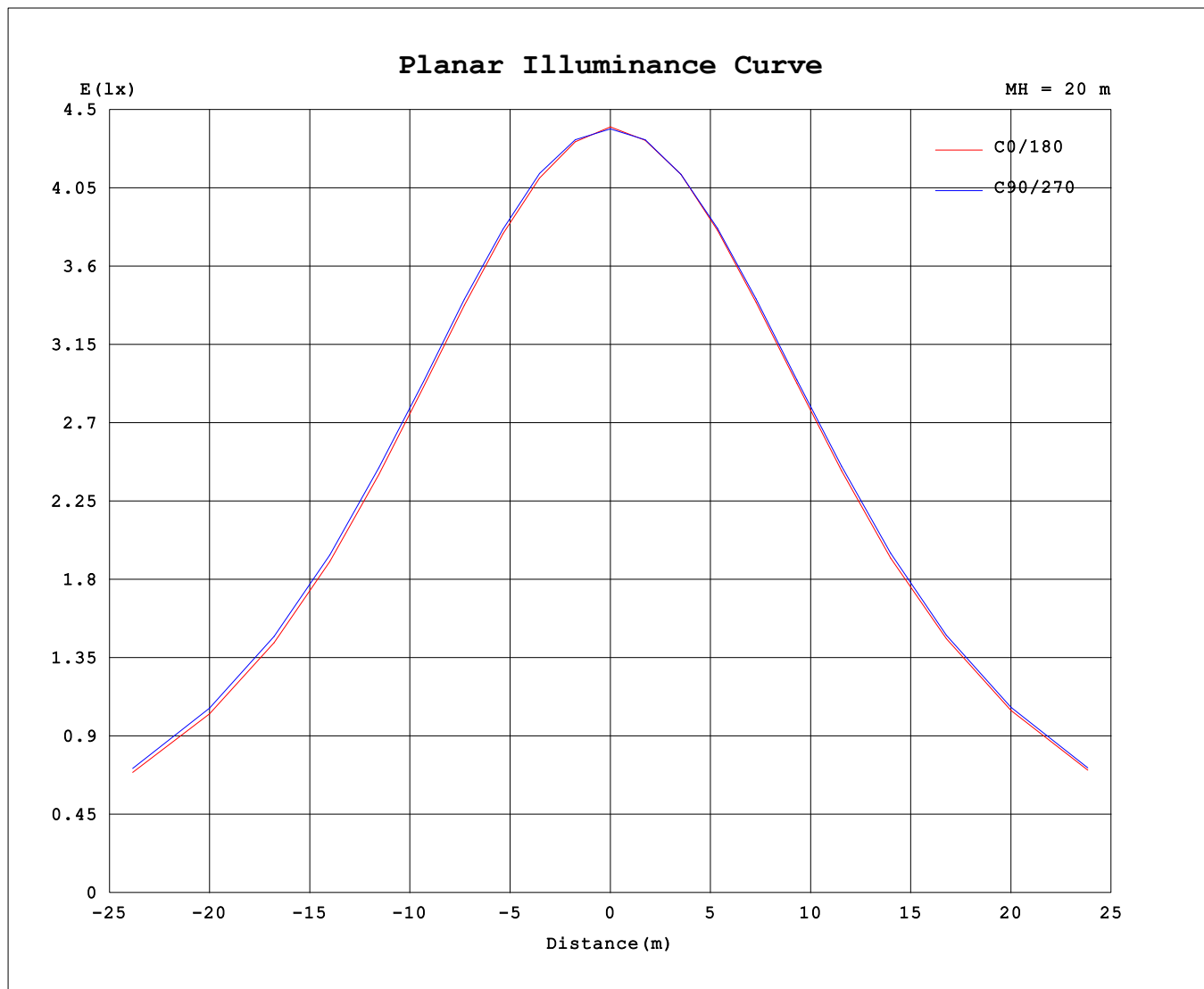
AvgL	cd/m2
L_0~180 (65) av	11104
L_0~180 (75) av	10059
L_0~180 (85) av	8434
L_90~270 (65) av	11508
L_90~270 (75) av	10445
L_90~270 (85) av	8530
L_45 (65) av	11218
L_45 (75) av	10138
L_45 (85) av	8431

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-03-07

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=1.2600]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: DAMIN
 Test Date: 2025-03-07

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=1.2600]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:276.87V I:0.1403A P:38.250W PF:0.9848 Freq:60.01Hz		
Lamp Flux:5137.19x1 lm		
NAME: ASD-BLP-14A40-4P		
SPEC.:		
MFR.: EVERFINE		

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315										
0	1758	1758	1758	1758	1758	1758	1758	1758										
5	1744	1745	1753	1749	1747	1751	1753	1745										
10	1718	1719	1733	1724	1727	1725	1731	1721										
15	1678	1683	1695	1688	1687	1693	1697	1685										
20	1625	1630	1646	1635	1634	1638	1647	1633										
25	1560	1569	1581	1573	1570	1573	1585	1567										
30	1479	1490	1507	1494	1492	1498	1512	1492										
35	1384	1395	1415	1403	1397	1406	1422	1399										
40	1278	1290	1313	1303	1298	1306	1318	1295										
45	1162	1174	1202	1190	1184	1192	1207	1180										
50	1041	1045	1077	1066	1061	1074	1084	1055										
55	914	917	946	935	930	940	952	921										
60	775	779	804	797	790	800	813	781										
65	632	634	659	651	647	657	666	641										
70	489	489	512	504	499	509	518	497										
75	352	350	367	360	357	365	370	354										
80	219	220	227	225	222	228	230	222										
85	99.5	98.7	99.9	99.6	101	102	103	100										
90	2.46	1.72	1.56	2.53	2.84	2.28	1.36	1.96										
95	0.76	0.77	0.91	1.66	0.98	0.61	0.53	0.60										
100	0.75	0.77	0.91	1.36	0.68	0.23	0.53	0.53										
105	0.75	0.77	0.91	0.83	0.53	0.23	0.76	0.53										
110	0.75	0.77	0.91	0.61	0.53	0.23	0.84	0.61										
115	0.75	0.77	0.91	0.61	0.53	0.23	0.84	0.61										
120	0.75	0.77	0.91	0.61	0.30	0.23	0.84	0.61										
125	0.75	0.77	0.91	0.61	0.15	0.23	0.84	0.68										
130	0.75	0.77	0.91	0.61	0.15	0.31	0.84	1.36										
135	0.75	0.84	0.99	0.61	0.15	0.31	0.99	1.82										
140	0.75	1.15	0.99	0.61	0.15	0.46	1.07	1.89										
145	0.83	1.61	0.99	0.91	0.30	0.84	1.30	1.97										
150	1.66	2.22	1.30	1.29	0.60	0.84	1.30	1.89										
155	1.96	2.53	1.45	1.21	0.91	1.07	1.30	1.89										
160	2.04	2.83	1.45	1.89	0.91	1.07	1.60	1.89										
165	2.56	3.06	1.68	2.12	1.44	1.53	1.68	1.89										
170	3.02	3.06	1.83	2.19	2.42	2.45	2.44	1.89										
175	2.94	3.06	1.90	2.19	2.79	2.83	2.97	1.89										
180	2.94	2.91	1.91	2.19	2.19	2.91	2.90	1.89										

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-03-07

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=1.2600]
Remarks: