

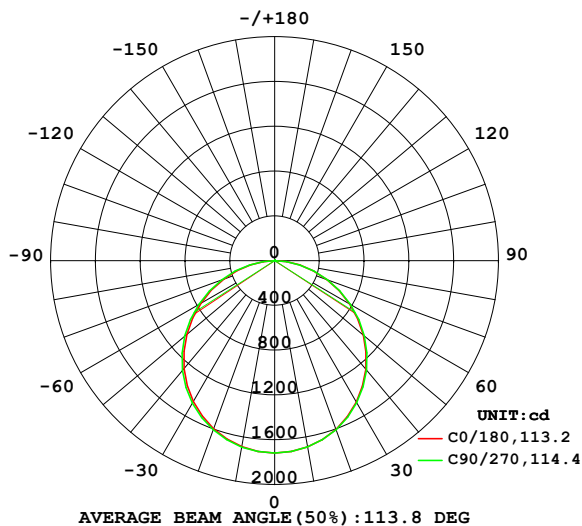
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

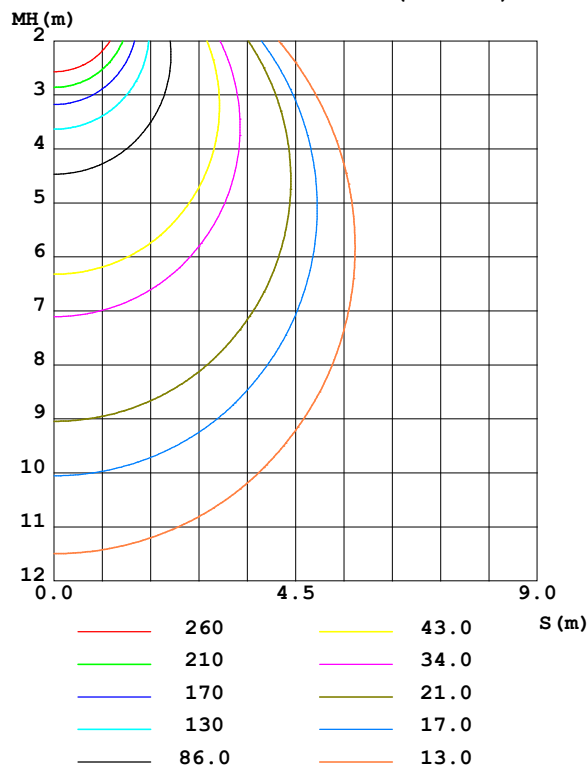
Test:U:276.86V I:0.1406A P:38.346W PF:0.9851 Freq:60.01Hz Lamp Flux:5035.8x1 lm		
NAME:ASD-BSP-14A40		
SPEC.:3500K		
MER.: AsD Lighting corp		

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 131.33 lm/W
MODEL	ASD-BSP-14A40	I _{max} (cd)	1718	S/MH(C0/180)	1.26	
NOMINAL POWER(W)	40	LOR(%)	100.0	S/MH(C90/270)	1.27	
RATED VOLTAGE(V)	277	TOTAL FLUX(lm)	5035.8	η UP,DN(C0-180)	0.0,50.0	
NOMINAL FLUX(lm)	5035.8	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.9	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	277	η down(%)	100.0	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:2024-08-02

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	1691	1692	1691	1687	1687	1689	1692	1692	0- 10	162.7	162.7	3.23,3.23
20	1605	1607	1606	1596	1597	1599	1608	1606	10- 20	466.7	629.4	12.5,12.5
30	1460	1466	1467	1455	1452	1457	1470	1466	20- 30	709.2	1339	26.6,26.6
40	1268	1274	1278	1264	1258	1268	1281	1275	30- 40	858.1	2197	43.6,43.6
50	1035	1042	1045	1033	1024	1036	1048	1042	40- 50	893.9	3091	61.4,61.4
60	772.2	779.5	781.5	769.2	761.8	772.1	783.4	778.7	50- 60	813.0	3904	77.5,77.5
70	495.9	501.7	502.1	492.0	484.9	495.5	503.3	499.9	60- 70	630.0	4534	90,90
80	228.5	231.7	231.0	224.8	218.8	225.9	230.4	230.4	70- 80	381.0	4915	97.6,97.6
90	2.632	1.631	1.015	0.8825	0	0.1957	0.2036	1.251	80- 90	119.1	5034	100,100
100	0.1523	0.2286	0.4553	0.2275	0	0	0.0756	0	90-100	0.4096	5034	100,100
110	0.1519	0.2286	0.4553	0.2275	0	0.0758	0.3036	0.1517	100-110	0.1705	5034	100,100
120	0.1519	0.2286	0.4553	0.2275	0	0.0762	0.3794	0.2275	110-120	0.2119	5035	100,100
130	0.1519	0.2286	0.4553	0.2275	0.0759	0.2283	0.5310	0.4543	120-130	0.2208	5035	100,100
140	0.1519	0.2288	0.4553	0.2275	0.1525	0.3802	0.5312	0.6064	130-140	0.2367	5035	100,100
150	0.1519	0.6862	0.4553	0.4557	0.4550	0.4567	0.8346	0.7585	140-150	0.2696	5035	100,100
160	0.1519	0.8381	0.4553	0.6072	0.6074	0.5333	1.062	0.7585	150-160	0.2714	5036	100,100
170	0.3772	1.067	0.5312	0.9860	0.6074	0.6095	1.062	0.7585	160-170	0.1904	5036	100,100
180	0.6074	1.067	0.6830	0.9860	0.6074	0.6095	1.062	0.6826	170-180	0.0748	5036	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

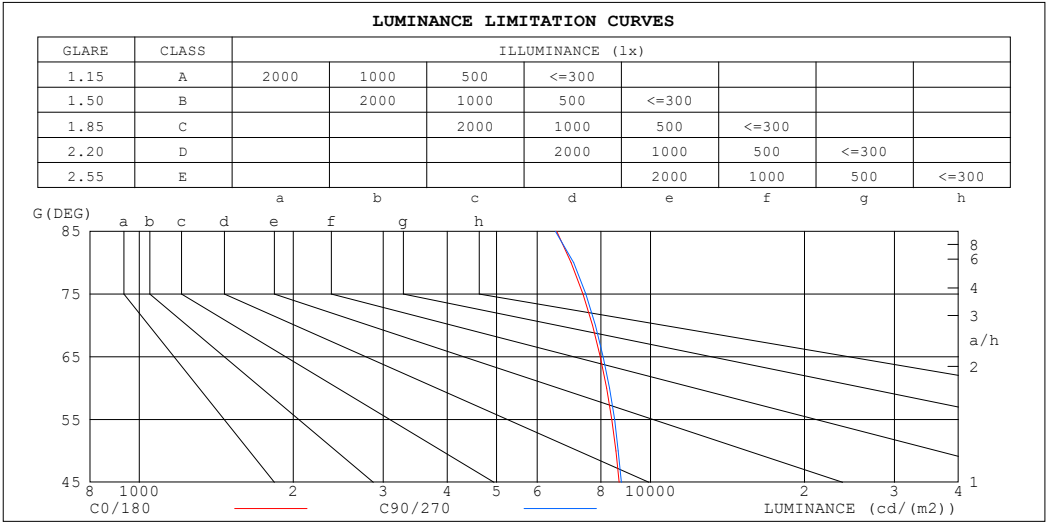
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-08-02

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

LUMINANCE LIMITATION CURVES

Test:U:276.86V I:0.1406A P:38.346W PF:0.9851 Freq:60.01Hz		
Lamp Flux:5035.8x1 lm		
NAME: ASD-BSP-14A40 277 40 5000K		
MFR.: EVERFINE		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	6555	6511
80	6991	7071
75	7373	7472
70	7703	7803
65	7976	8074
60	8205	8309
55	8396	8505
50	8553	8646
45	8681	8775

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-08-02

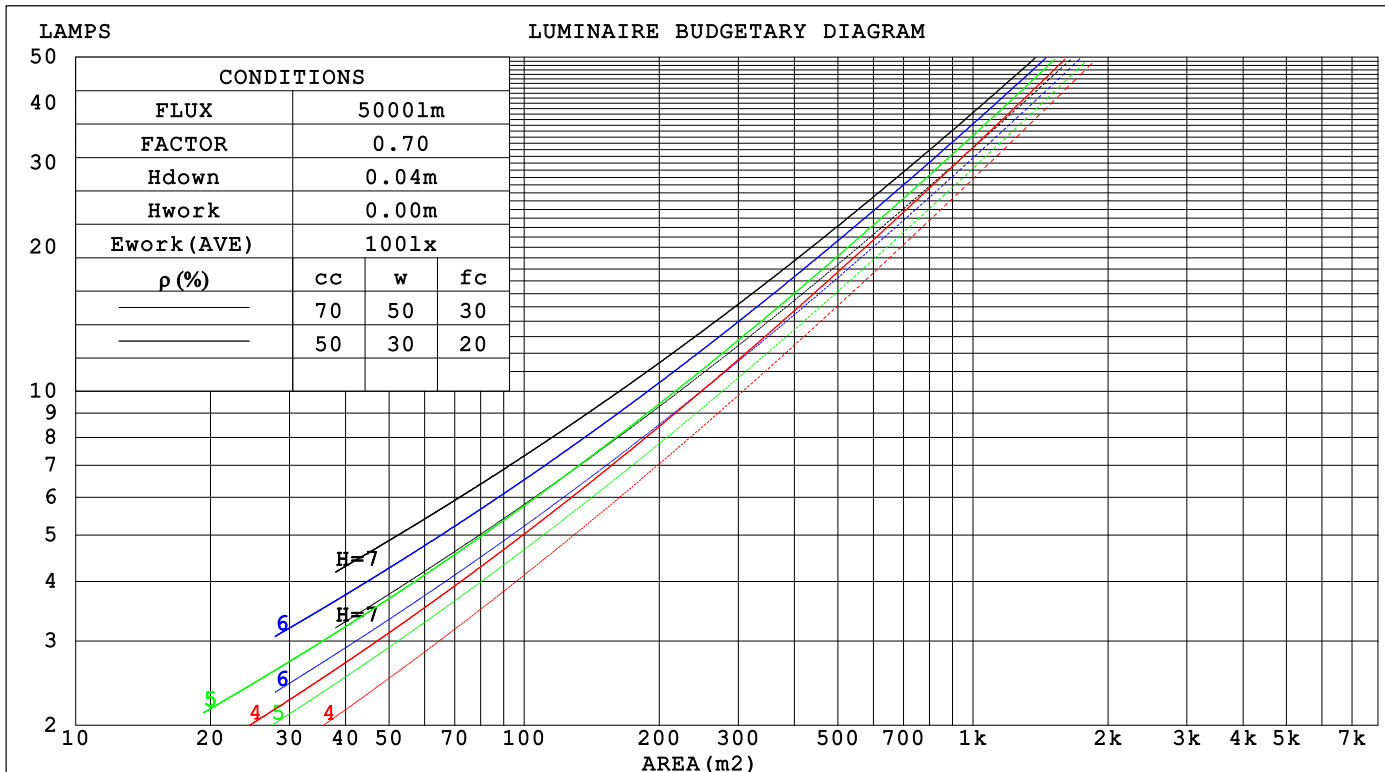
γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2590]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:276.86V I:0.1406A P:38.346W PF:0.9851 Freq:60.01Hz		
Lamp Flux:5035.8x1 lm		
NAME: ASD-BSP-14A40 277 40 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															



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-08-02

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:276.86V I:0.1406A P:38.346W PF:0.9851 Freq:60.01Hz											
Lamp Flux:5035.8x1 lm											
NAME: ASD-BSP-14A40 277 40 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	.318	.181	.057	.311	.178	.056	.298	.171	.055	.286	.165	.053	.274	.159	.051	
2.0	.297	.163	.050	.291	.160	.049	.279	.155	.048	.268	.151	.047	.258	.146	.046	
3.0	.274	.146	.044	.268	.144	.043	.258	.140	.043	.248	.136	.042	.239	.133	.041	
4.0	.252	.131	.039	.247	.129	.038	.238	.126	.038	.229	.123	.037	.222	.120	.037	
5.0	.233	.119	.034	.228	.117	.034	.220	.115	.034	.213	.112	.033	.205	.110	.033	
6.0	.215	.108	.031	.212	.107	.031	.204	.105	.030	.198	.103	.030	.191	.101	.030	
7.0	.200	.099	.028	.197	.098	.028	.190	.096	.028	.184	.094	.027	.179	.093	.027	
8.0	.187	.091	.026	.184	.091	.026	.178	.089	.025	.173	.087	.025	.167	.086	.025	
9.0	.175	.085	.024	.172	.084	.024	.167	.083	.023	.162	.081	.023	.157	.080	.023	
10.0	.165	.079	.022	.162	.078	.022	.157	.077	.022	.153	.076	.022	.149	.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	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020		
1.0	.181	.156	.134	.155	.134	.115	.106	.092	.080	.061	.053	.046	.020	.017	.015		
2.0	.173	.132	.098	.148	.114	.084	.102	.079	.059	.059	.046	.035	.019	.015	.011		
3.0	.166	.115	.074	.142	.099	.064	.097	.069	.045	.056	.040	.027	.018	.013	.009		
4.0	.158	.101	.058	.136	.088	.051	.093	.061	.036	.054	.036	.021	.017	.012	.007		
5.0	.150	.091	.047	.129	.079	.041	.089	.055	.029	.052	.032	.017	.017	.011	.006		
6.0	.143	.083	.039	.123	.072	.034	.085	.050	.024	.049	.029	.014	.016	.010	.005		
7.0	.136	.076	.033	.117	.066	.029	.081	.046	.021	.047	.027	.012	.015	.009	.004		
8.0	.130	.070	.029	.112	.061	.025	.077	.043	.018	.045	.025	.011	.015	.008	.004		
9.0	.124	.065	.025	.107	.056	.022	.074	.040	.016	.043	.023	.009	.014	.008	.003		
10.0	.118	.061	.023	.102	.053	.020	.071	.037	.014	.041	.022	.008	.013	.007	.003		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-08-02

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:276.86V I:0.1406A P:38.346W PF:0.9851 Freq:60.01Hz Lamp Flux:5035.8x1 lm		
NAME: ASD-BSP-14A40 277 40 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	31
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	63	56	72	65	56	49
1.25	82	72	65	81	71	64	78	70	63	56
1.50	87	77	70	86	77	70	83	75	69	61
2.00	94	86	79	93	84	78	89	82	77	69
2.50	98	90	84	96	89	83	92	86	81	73
3.00	102	95	89	100	93	88	95	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		

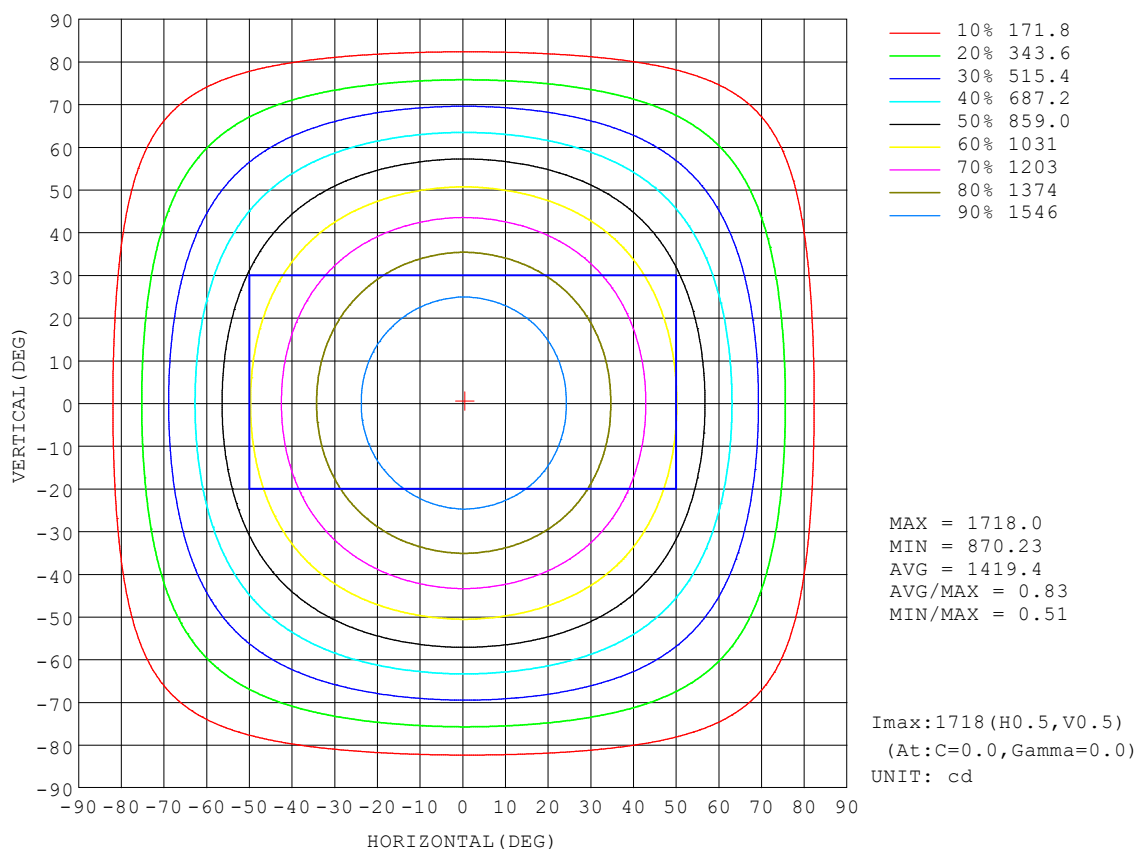
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: DAMIN
 Test Date: 2024-08-02

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

ISOCANDELA DIAGRAM

Test:U:276.86V I:0.1406A P:38.346W PF:0.9851 Freq:60.01Hz Lamp Flux:5035.8x1 lm		
NAME: ASD-BSP-14A40 277 40 5000K		
MFR.: EVERFINE		



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2024-08-02

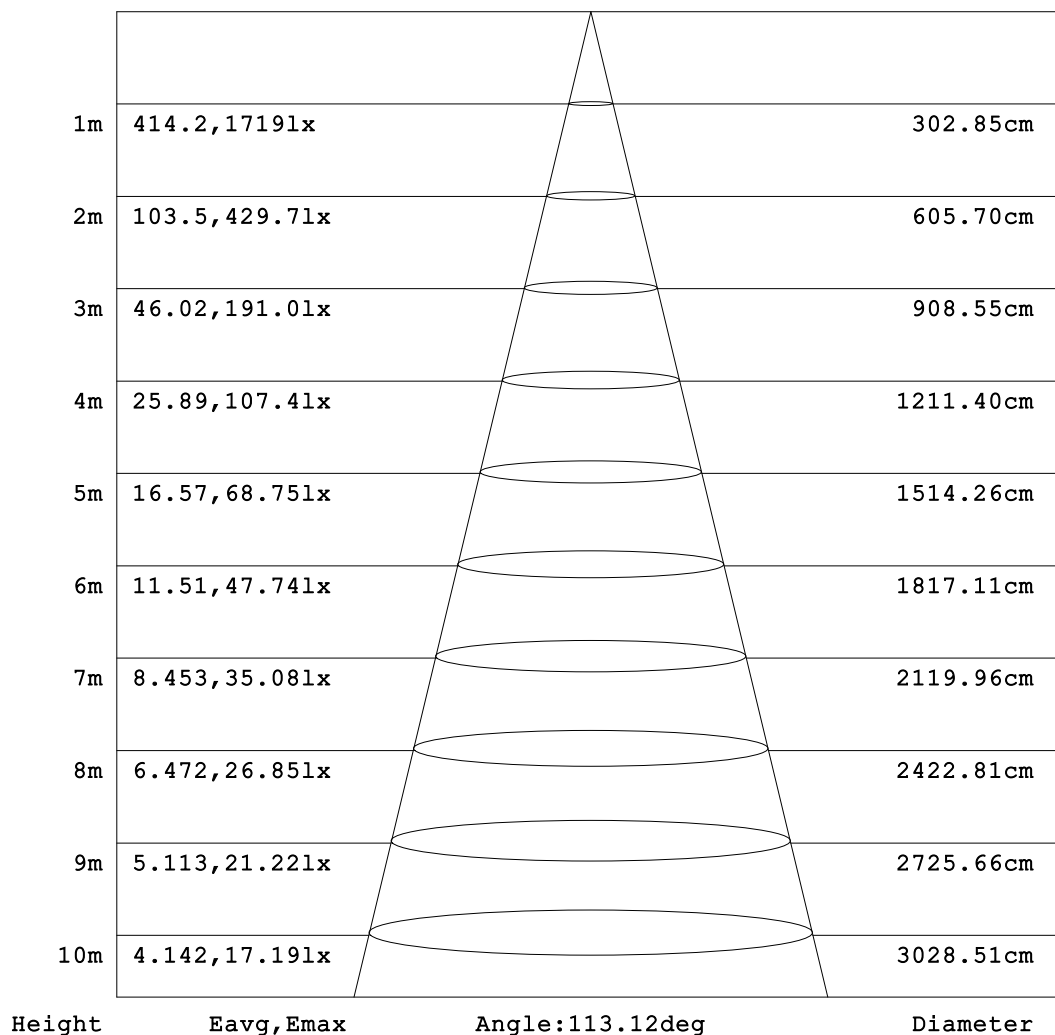
γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2590]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:276.86V I:0.1406A P:38.346W PF:0.9851 Freq:60.01Hz Lamp Flux:5035.8x1 lm		
NAME: ASD-BSP-14A40 277 40 5000K		
MFR.: EVERFINE		

Flux out:3904 lm



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

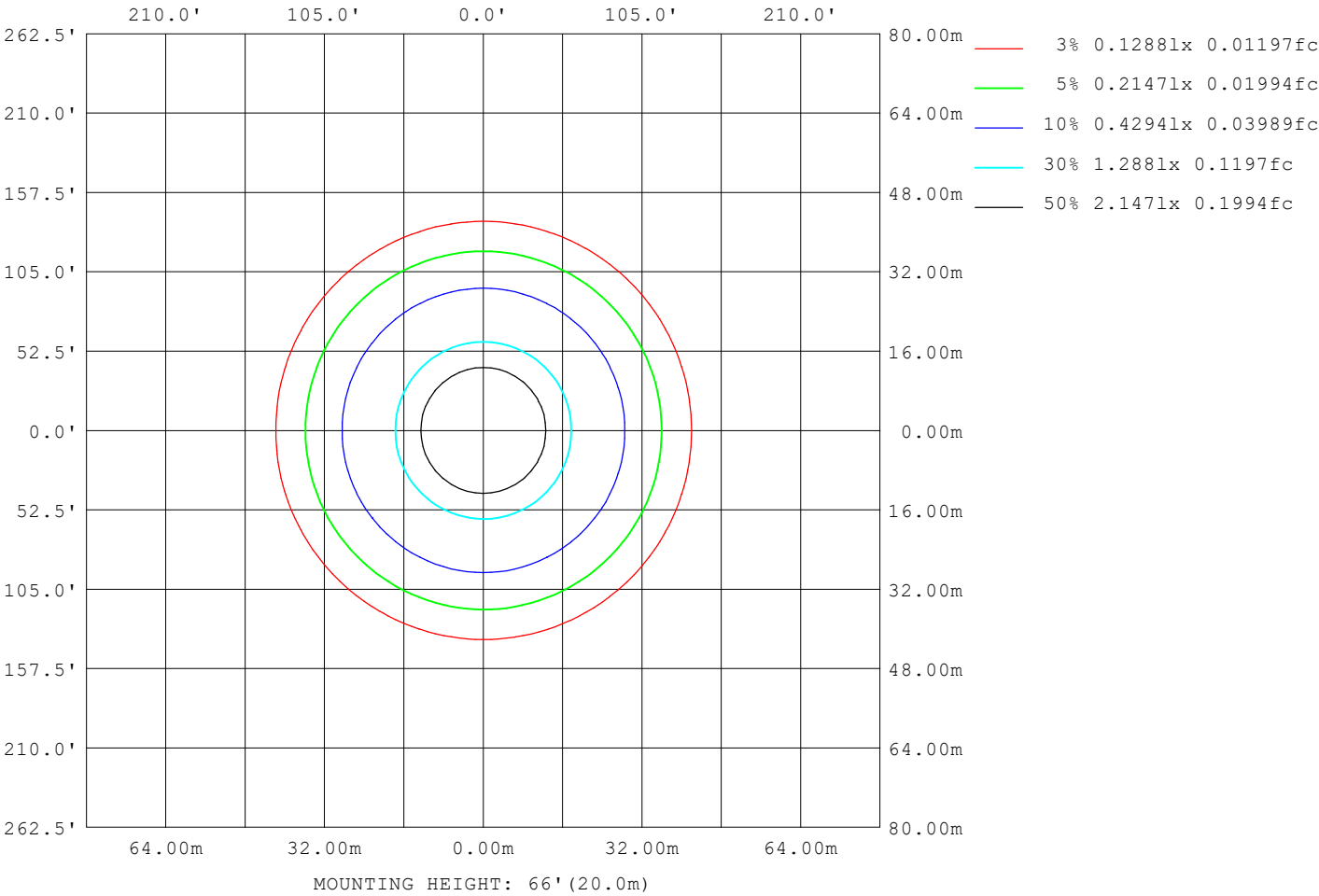
C Range: 0 - 360DEG
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Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-08-02

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:276.86V I:0.1406A P:38.346W PF:0.9851 Freq:60.01Hz		
Lamp Flux:5035.8x1 lm		
NAME: ASD-BSP-14A40 277 40 5000K		
MFR.: EVERFINE		



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-08-02

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:276.86V I:0.1406A P:38.346W PF:0.9851 Freq:60.01Hz Lamp Flux:5035.8x1 lm		
NAME: ASD-BSP-14A40 277 40 5000K		
MFR.: EVERFINE		

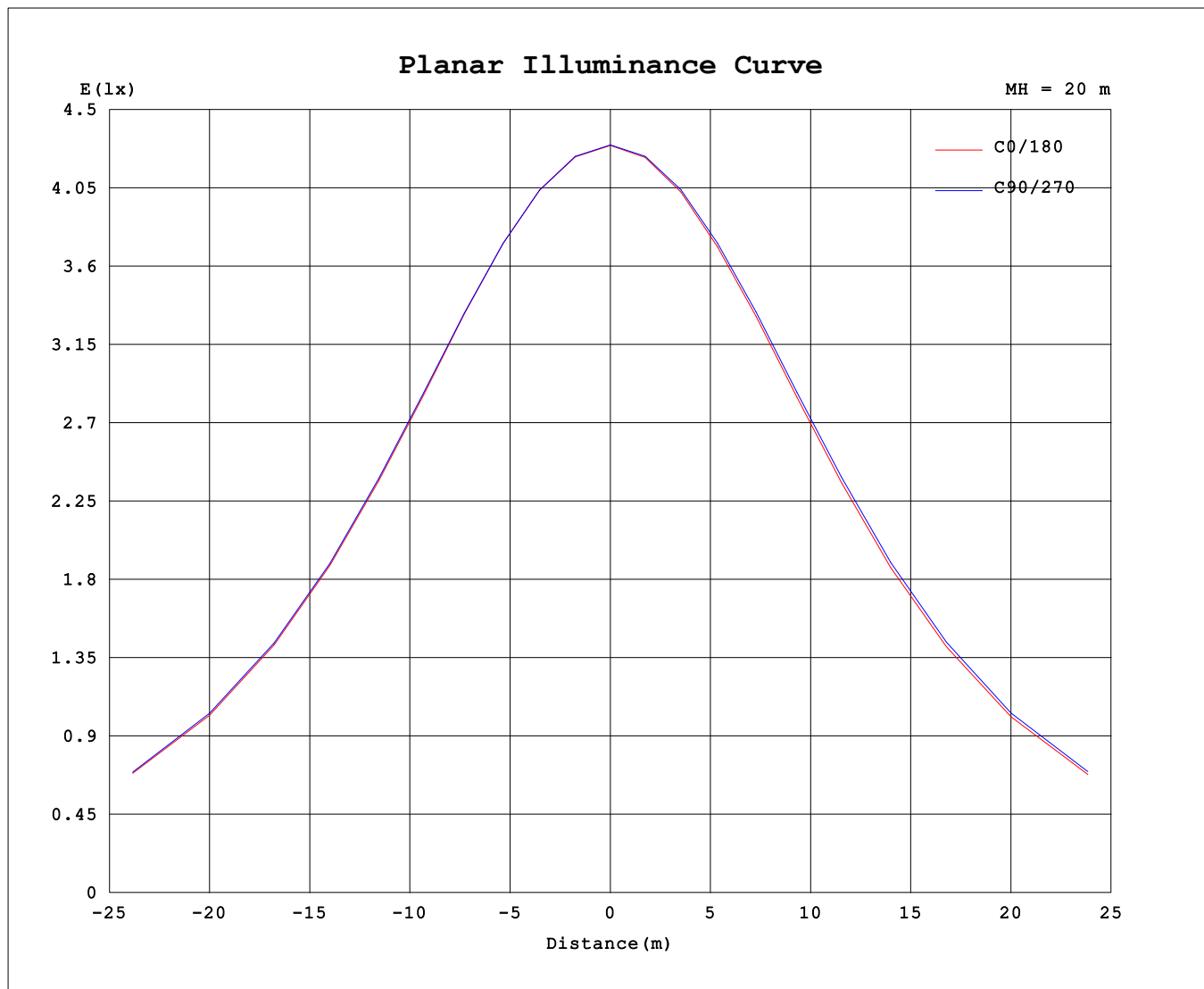
AvgL	cd/m2
L_0~180 (65) av	7916
L_0~180 (75) av	7271
L_0~180 (85) av	6316
L_90~270 (65) av	8083
L_90~270 (75) av	7473
L_90~270 (85) av	6425
L_45 (65) av	8006
L_45 (75) av	7397
L_45 (85) av	6367

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
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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: 2024-08-02

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:276.86V I:0.1406A P:38.346W PF:0.9851 Freq:60.01Hz																	
Lamp Flux:5035.8x1 lm																	
NAME: ASD-BSP-14A40 277 40 5000K																	
MFR.: EVERFINE																	

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315									
0	1718	1718	1718	1718	1718	1718	1718	1718									
5	1712	1712	1712	1710	1710	1710	1712	1713									
10	1691	1692	1691	1687	1687	1689	1692	1692									
15	1656	1656	1655	1650	1648	1651	1656	1656									
20	1605	1607	1606	1596	1597	1599	1608	1606									
25	1537	1543	1543	1533	1531	1536	1545	1543									
30	1460	1466	1467	1455	1452	1457	1470	1466									
35	1369	1377	1377	1366	1361	1367	1382	1376									
40	1268	1274	1278	1264	1258	1268	1281	1275									
45	1155	1162	1167	1153	1146	1157	1169	1163									
50	1035	1042	1045	1033	1024	1036	1048	1042									
55	907	913	918	904	896	908	920	914									
60	772	779	782	769	762	772	783	779									
65	635	640	642	631	624	635	644	640									
70	496	502	502	492	485	496	503	500									
75	359	364	364	356	349	358	364	363									
80	229	232	231	225	219	226	230	230									
85	108	108	107	102	99.6	101	104	106									
90	2.63	1.63	1.02	0.88	0.00	0.20	0.20	1.25									
95	0.23	0.38	0.53	0.38	0.00	0.00	0.00	0.00									
100	0.15	0.23	0.46	0.23	0.00	0.00	0.08	0.00									
105	0.15	0.23	0.46	0.23	0.00	0.00	0.08	0.08									
110	0.15	0.23	0.46	0.23	0.00	0.08	0.30	0.15									
115	0.15	0.23	0.46	0.23	0.00	0.08	0.38	0.23									
120	0.15	0.23	0.46	0.23	0.00	0.08	0.38	0.23									
125	0.15	0.23	0.46	0.23	0.00	0.08	0.53	0.23									
130	0.15	0.23	0.46	0.23	0.08	0.23	0.53	0.45									
135	0.15	0.23	0.46	0.23	0.08	0.23	0.53	0.46									
140	0.15	0.23	0.46	0.23	0.15	0.38	0.53	0.61									
145	0.15	0.53	0.46	0.31	0.23	0.30	0.68	0.76									
150	0.15	0.69	0.46	0.46	0.45	0.46	0.83	0.76									
155	0.15	0.76	0.46	0.53	0.53	0.46	1.14	0.76									
160	0.15	0.84	0.46	0.61	0.61	0.53	1.06	0.76									
165	0.15	0.99	0.46	0.68	0.61	0.61	1.06	0.76									
170	0.38	1.07	0.53	0.99	0.61	0.61	1.06	0.76									
175	0.61	1.07	0.68	0.99	0.61	0.61	1.06	0.83									
180	0.61	1.07	0.68	0.99	0.61	0.61	1.06	0.68									

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
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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=1.2590]
Remarks: