

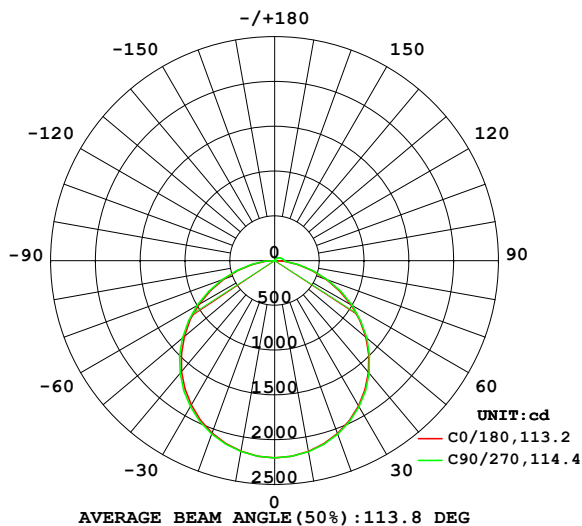
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

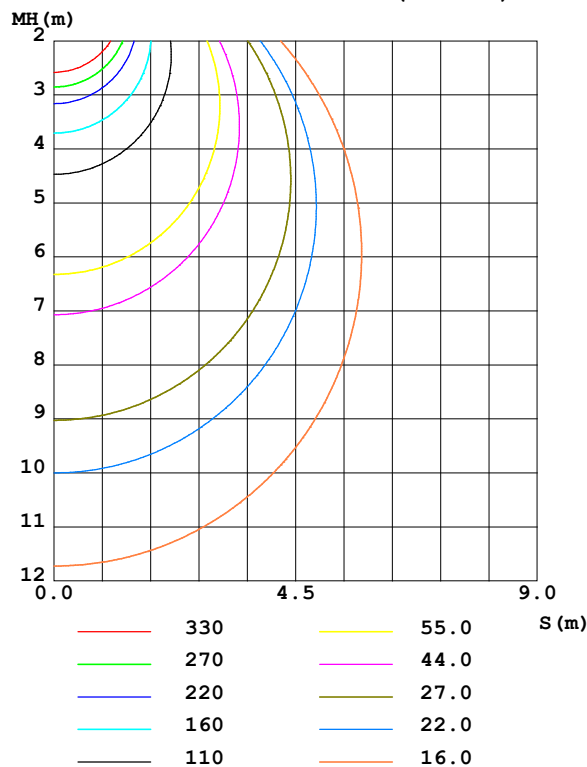
Test:U:119.82V I:0.4161A P:49.678W PF:0.9963 Freq:60.01Hz Lamp Flux:6476.29x1 lm		
NAME:ASD-BSP-24A50		
SPEC:5000K		
MFR:ASD Lighting Corp		

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 130.36 lm/W
MODEL	ASD-BSP-24A50	I _{max} (cd)	2201	S/MH (C0/180)	1.26	
NOMINAL POWER(W)	50	LOR (%)	100.0	S/MH (C90/270)	1.27	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	6476.3	η UP,DN (C0-180)	1.0,49.6	
NOMINAL FLUX(lm)	6476.29	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,49.4	
LAMPS INSIDE	1	η up (%)	1.0	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	120	η down (%)	99.0	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°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

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2165	2168	2168	2161	2161	2161	2164	2165	0- 10	208.3	208.3	3.22,3.22
20	2053	2063	2062	2049	2048	2050	2057	2056	10- 20	597.9	806.2	12.4,12.4
30	1872	1885	1885	1868	1863	1871	1882	1875	20- 30	909.5	1716	26.5,26.5
40	1628	1641	1642	1623	1618	1630	1643	1631	30- 40	1102	2817	43.5,43.5
50	1330	1343	1344	1324	1319	1333	1345	1333	40- 50	1148	3966	61.2,61.2
60	986.2	998.5	999.6	980.8	975.4	989.1	998.8	989.7	50- 60	1042	5008	77.3,77.3
70	617.2	627.1	630.5	614.2	605.8	618.3	627.4	621.7	60- 70	797.7	5806	89.6,89.6
80	264.3	272.9	276.1	265.4	256.3	265.7	273.3	269.0	70- 80	465.6	6271	96.8,96.8
90	10.93	8.471	112.4	6.505	8.460	5.831	2.644	7.296	80- 90	141.8	6413	99,99
100	9.505	7.362	97.44	5.678	0.0008	0.0760	0.2275	0	90-100	18.46	6431	99.3,99.3
110	8.078	6.253	82.52	4.851	0.0760	0	0.3170	0.0758	100-110	14.72	6446	99.5,99.5
120	6.651	5.144	67.60	4.024	0.0760	0	0.3423	0.1516	110-120	11.56	6458	99.7,99.7
130	5.224	4.035	52.68	3.198	0.1521	0	0.3677	0.2274	120-130	8.422	6466	99.8,99.8
140	3.796	2.925	37.76	2.371	0.2281	0.0759	0.3931	0.4545	130-140	5.533	6472	99.9,99.9
150	2.369	1.816	22.84	1.544	0.3041	0.3051	0.4184	0.4849	140-150	3.090	6475	100,100
160	0.9417	0.7072	7.917	0.7167	0.6083	0.3818	0.4438	0.5154	150-160	1.243	6476	100,100
170	0.2281	0.1526	0.4565	0.3032	0.6843	0.3816	0.4565	0.5306	160-170	0.2063	6476	100,100
180	0.3802	0.3050	0.4565	0.3790	0.5322	0.3816	0.2282	0.4548	170-180	0.0375	6476	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

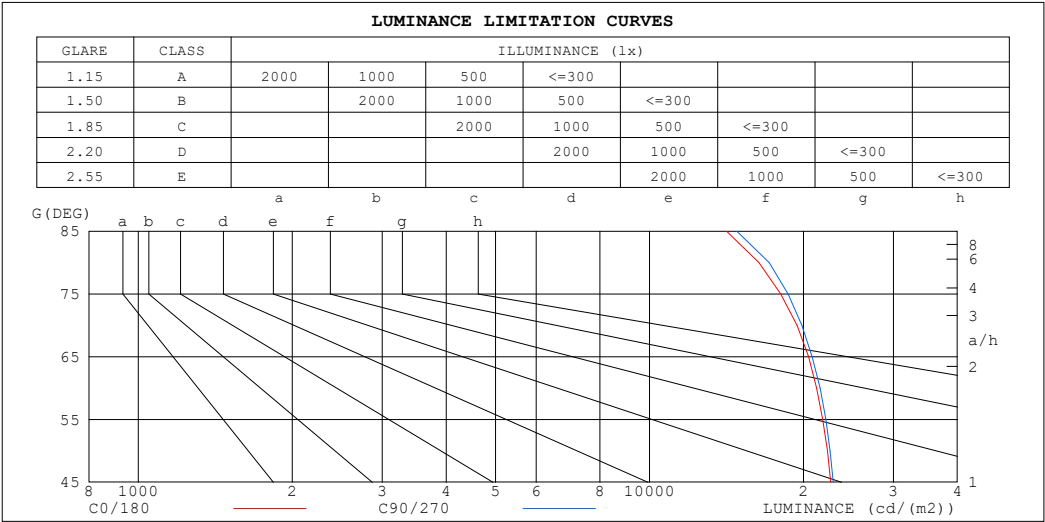
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-06-04

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:119.82V I:0.4161A P:49.678W PF:0.9963 Freq:60.01Hz		
Lamp Flux:6476.29x1 lm		
NAME: ASD-BLP-24A50-4P 120W 50 5000K		
MFR.: EVERFINE		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	14152	14819
80	16384	17141
75	18062	18668
70	19427	19872
65	20466	20814
60	21235	21549
55	21825	22117
50	22278	22534
45	22618	22861

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

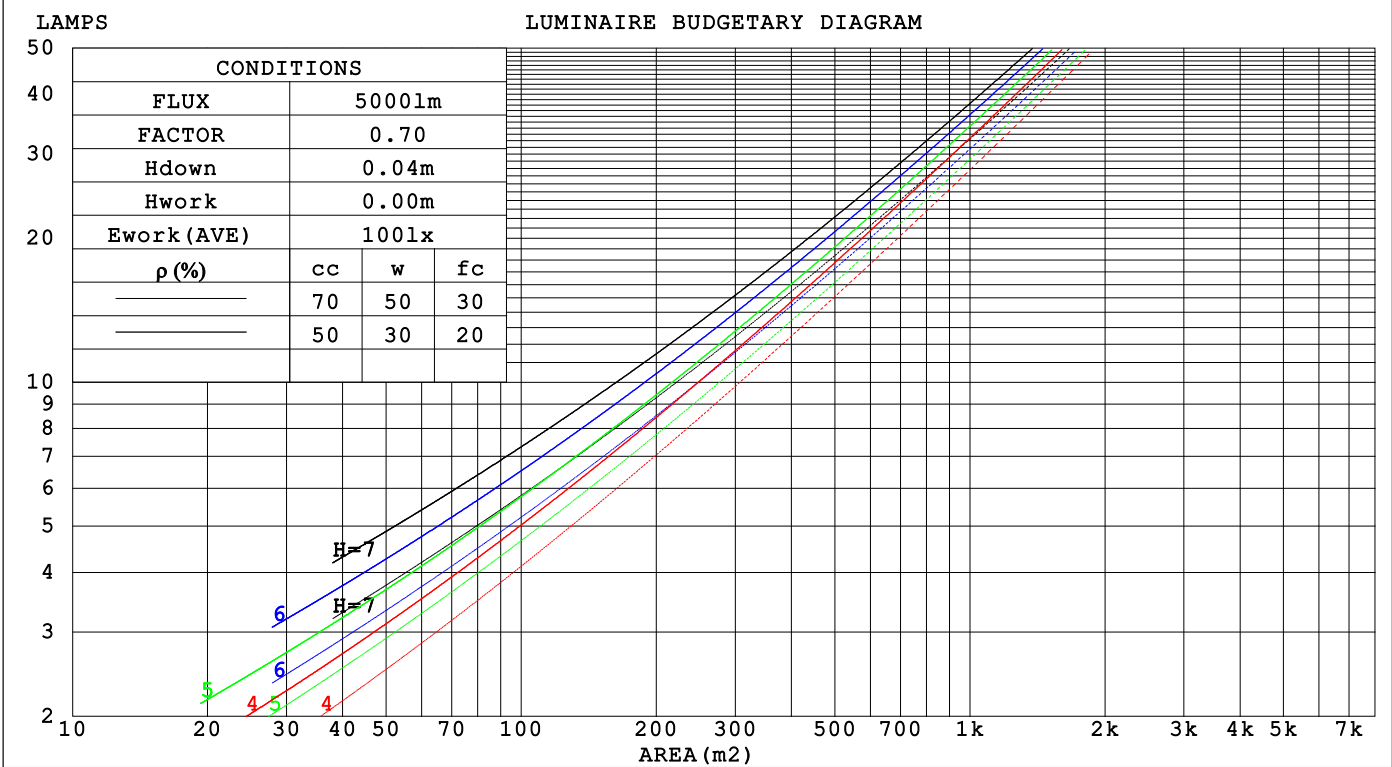
γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2590]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.82V I:0.4161A P:49.678W PF:0.9963 Freq:60.01Hz		
Lamp Flux:6476.29x1 lm		
NAME: ASD-BLP-24A50-4P 120W 50 5000K		
MFR.: EVERFINE		

pcc	80%			70%			50%			30%			10%			0
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p _{fc}	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	1.01	1.01	1.01	.99
1.0	1.03	.99	.95	1.01	.97	.93	.97	.93	.90	.92	.90	.87	.89	.87	.85	.82
2.0	.90	.83	.77	.88	.82	.76	.84	.79	.74	.81	.76	.72	.78	.74	.71	.68
3.0	.79	.71	.64	.77	.69	.63	.74	.67	.62	.71	.66	.61	.68	.64	.60	.57
4.0	.70	.61	.54	.68	.60	.54	.66	.58	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.45	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.40	.51	.44	.39	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.41	.35	.48	.41	.35	.47	.40	.35	.45	.39	.34	.32
8.0	.46	.38	.32	.45	.37	.32	.44	.37	.31	.43	.36	.31	.41	.35	.31	.29
9.0	.42	.34	.29	.42	.34	.28	.41	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.37	.30	.26	.36	.30	.25	.36	.30	.25	.23



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:119.82V I:0.4161A P:49.678W PF:0.9963 Freq:60.01Hz		
Lamp Flux:6476.29x1 lm		
NAME: ASD-BLP-24A50-4P 120W 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	.315	.179	.057	.307	.175	.056	.293	.168	.054	.281	.162	.052	.269	.156	.050		
2.0	.295	.161	.050	.288	.159	.049	.276	.153	.048	.265	.148	.046	.254	.144	.045		
3.0	.272	.145	.043	.266	.143	.043	.255	.138	.042	.245	.134	.041	.236	.131	.040		
4.0	.251	.130	.038	.246	.128	.038	.236	.125	.037	.227	.122	.037	.219	.119	.036		
5.0	.231	.118	.034	.227	.116	.034	.218	.114	.033	.210	.111	.033	.203	.108	.033		
6.0	.214	.108	.031	.210	.106	.031	.203	.104	.030	.196	.102	.030	.189	.099	.030		
7.0	.200	.099	.028	.196	.098	.028	.189	.096	.028	.183	.094	.027	.177	.092	.027		
8.0	.186	.091	.026	.183	.090	.025	.177	.088	.025	.171	.087	.025	.166	.085	.025		
9.0	.174	.084	.024	.172	.084	.023	.166	.082	.023	.161	.081	.023	.156	.079	.023		
10.0	.164	.079	.022	.161	.078	.022	.156	.077	.022	.152	.075	.021	.147	.074	.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	.198	.198	.198	.169	.169	.169	.115	.115	.115	.066	.066	.066	.021	.021	.021		
1.0	.188	.164	.141	.161	.140	.122	.110	.097	.084	.063	.056	.049	.020	.018	.016		
2.0	.180	.139	.105	.154	.120	.091	.106	.083	.063	.061	.048	.037	.020	.016	.012		
3.0	.172	.122	.082	.148	.105	.071	.102	.073	.050	.059	.043	.029	.019	.014	.010		
4.0	.165	.109	.066	.141	.094	.057	.097	.065	.040	.056	.038	.024	.018	.012	.008		
5.0	.157	.098	.055	.135	.085	.048	.093	.059	.034	.054	.035	.020	.017	.011	.007		
6.0	.150	.090	.047	.129	.078	.041	.089	.055	.029	.052	.032	.017	.017	.010	.006		
7.0	.143	.083	.041	.123	.072	.036	.085	.050	.025	.050	.030	.015	.016	.010	.005		
8.0	.137	.077	.036	.118	.067	.032	.082	.047	.022	.047	.028	.013	.015	.009	.004		
9.0	.131	.072	.033	.113	.063	.029	.078	.044	.020	.045	.026	.012	.015	.009	.004		
10.0	.125	.068	.030	.108	.059	.026	.075	.042	.019	.044	.025	.011	.014	.008	.004		

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:119.82V I:0.4161A P:49.678W PF:0.9963 Freq:60.01Hz		
Lamp Flux:6476.29x1 lm		
NAME: ASD-BLP-24A50-4P 120W 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	44	38	31
0.80	67	55	48	66	55	47	64	54	47	40
1.00	75	64	57	74	63	56	72	65	56	48
1.25	82	72	64	81	71	64	78	69	63	56
1.50	87	77	70	86	76	70	83	75	69	61
2.00	94	86	79	92	84	78	89	82	77	69
2.50	98	90	84	96	89	83	92	86	81	73
3.00	102	95	89	99	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	97	101	97	94	85
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

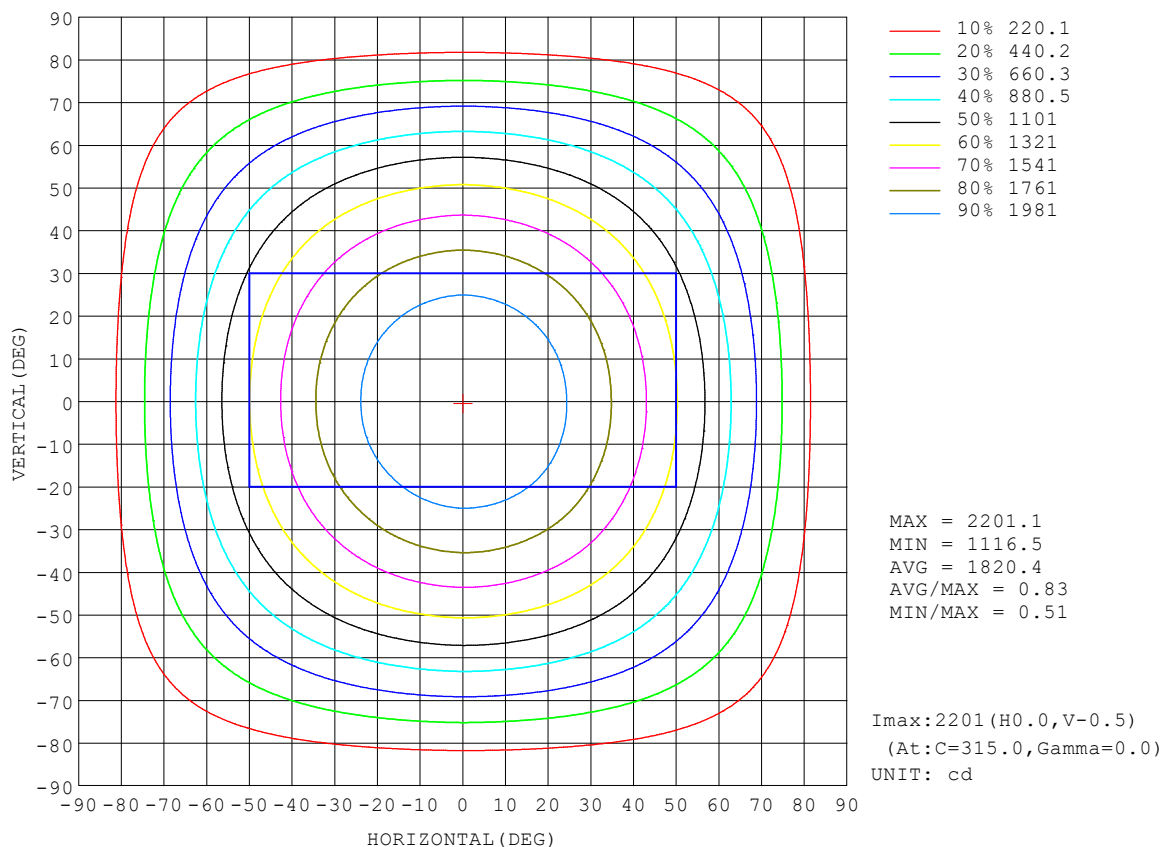
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: DAMIN
 Test Date: 2024-06-04

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

ISOCANDELA DIAGRAM

Test:U:119.82V I:0.4161A P:49.678W PF:0.9963 Freq:60.01Hz Lamp Flux:6476.29x1 lm		
NAME: ASD-BLP-24A50-4P 120W 50 5000K		
MFR.: EVERFINE		



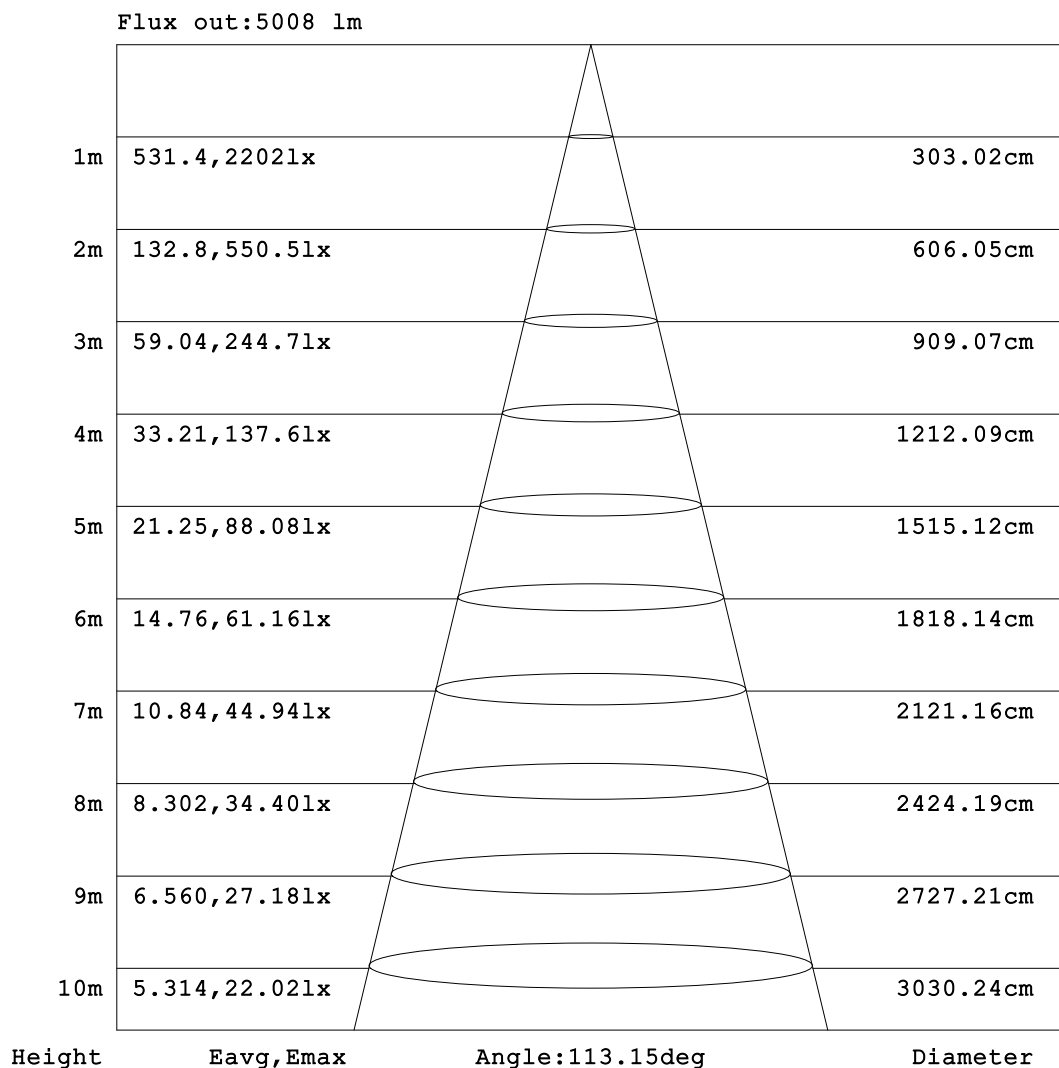
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-06-04

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

AAI Figure

Test:U:119.82V I:0.4161A P:49.678W PF:0.9963 Freq:60.01Hz Lamp Flux:6476.29x1 lm		
NAME: ASD-BLP-24A50-4P 120W 50 5000K		
MFR.: EVERFINE		



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

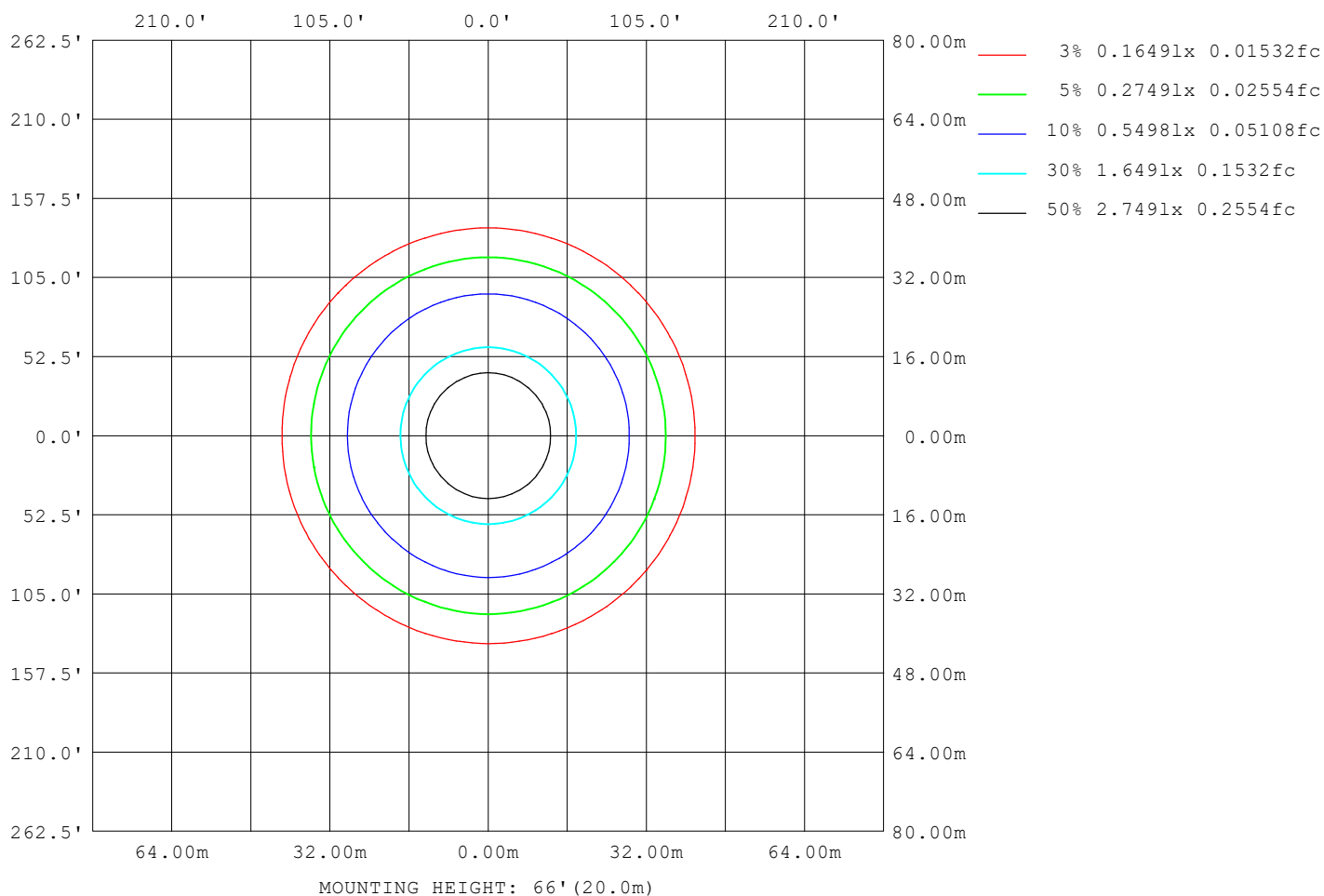
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-06-04

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:119.82V I:0.4161A P:49.678W PF:0.9963 Freq:60.01Hz		
Lamp Flux:6476.29x1 lm		
NAME: ASD-BLP-24A50-4P 120W 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:119.82V I:0.4161A P:49.678W PF:0.9963 Freq:60.01Hz Lamp Flux:6476.29x1 lm		
NAME: ASD-BLP-24A50-4P 120W 50 5000K		
MFR.: EVERFINE		

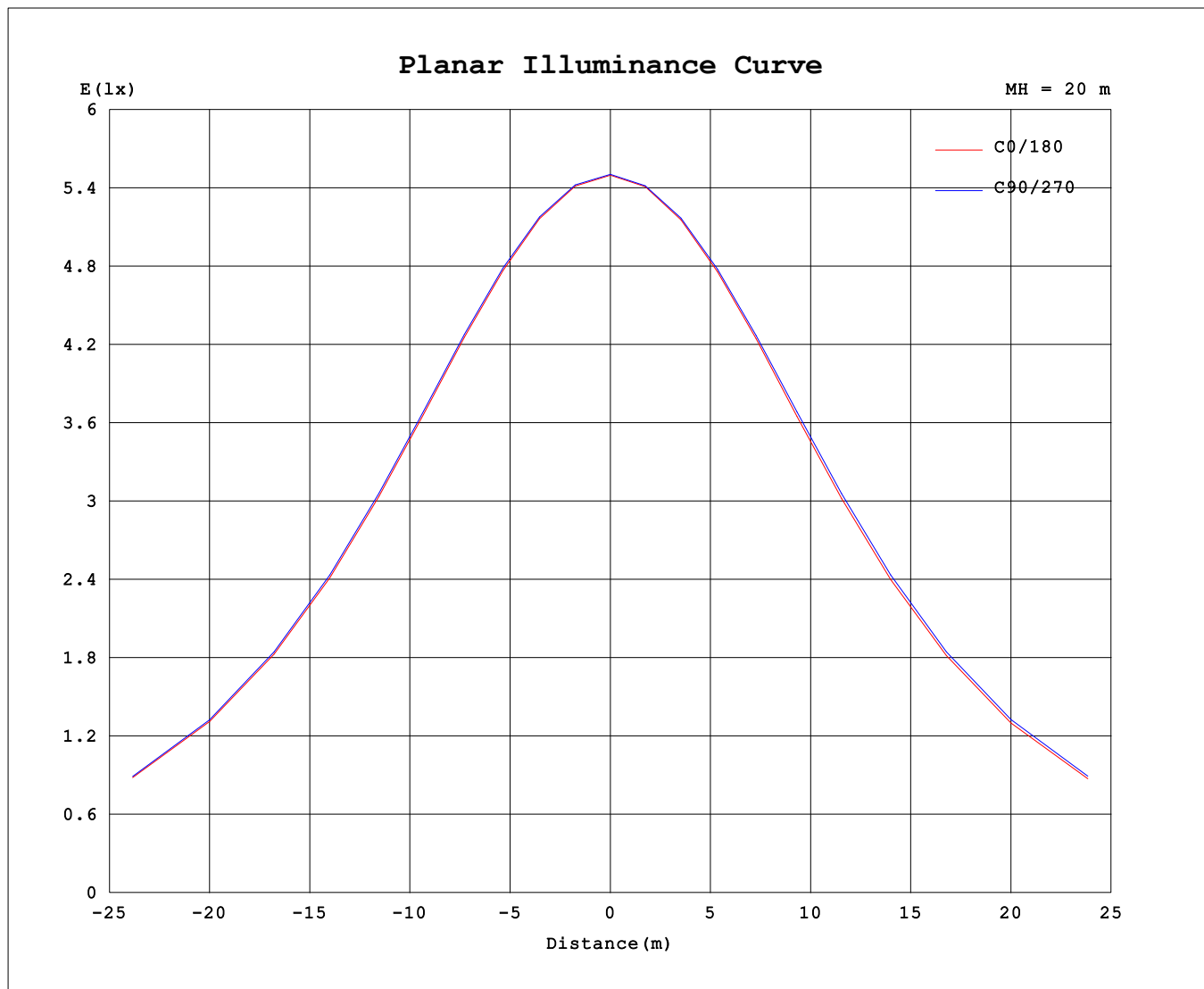
AvgL	cd/m2
L_0~180 (65) av	20324
L_0~180 (75) av	17860
L_0~180 (85) av	13898
L_90~270 (65) av	20776
L_90~270 (75) av	18593
L_90~270 (85) av	14745
L_45 (65) av	20546
L_45 (75) av	18258
L_45 (85) av	14410

Standard: GB/T 29293-2012

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:

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:119.82V I:0.4161A P:49.678W PF:0.9963 Freq:60.01Hz Lamp Flux:6476.29x1 lm																	
NAME: ASD-BLP-24A50-4P 120W 50 5000K																	
MFR.: EVERFINE																	

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315									
0	2201	2201	2201	2201	2201	2201	2201	2201									
5	2192	2193	2193	2190	2191	2190	2191	2192									
10	2165	2168	2168	2161	2161	2161	2164	2165									
15	2118	2124	2123	2114	2114	2114	2119	2118									
20	2053	2063	2062	2049	2048	2050	2057	2056									
25	1971	1982	1981	1967	1963	1969	1979	1974									
30	1872	1885	1885	1868	1863	1871	1882	1875									
35	1758	1771	1772	1752	1749	1758	1771	1762									
40	1628	1641	1642	1623	1618	1630	1643	1631									
45	1486	1499	1500	1480	1474	1488	1501	1488									
50	1330	1343	1344	1324	1319	1333	1345	1333									
55	1163	1176	1177	1157	1151	1165	1177	1166									
60	986	998	1000	981	975	989	999	990									
65	803	814	816	798	791	805	814	807									
70	617	627	631	614	606	618	627	622									
75	434	445	448	434	424	436	445	440									
80	264	273	276	265	256	266	273	269									
85	115	119	120	114	110	115	119	118									
90	10.9	8.47	112	6.51	8.46	5.83	2.64	7.30									
95	10.2	7.92	105	6.09	0.00	0.00	0.00	0.00									
100	9.51	7.36	97.4	5.68	0.00	0.08	0.23	0.00									
105	8.79	6.81	90.0	5.26	0.08	0.00	0.30	0.04									
110	8.08	6.25	82.5	4.85	0.08	0.00	0.32	0.08									
115	7.36	5.70	75.1	4.44	0.08	0.00	0.33	0.11									
120	6.65	5.14	67.6	4.02	0.08	0.00	0.34	0.15									
125	5.94	4.59	60.1	3.61	0.11	0.00	0.36	0.19									
130	5.22	4.03	52.7	3.20	0.15	0.00	0.37	0.23									
135	4.51	3.48	45.2	2.78	0.19	0.00	0.38	0.38									
140	3.80	2.93	37.8	2.37	0.23	0.08	0.39	0.45									
145	3.08	2.37	30.3	1.96	0.27	0.23	0.41	0.47									
150	2.37	1.82	22.8	1.54	0.30	0.31	0.42	0.48									
155	1.66	1.26	15.4	1.13	0.30	0.31	0.43	0.50									
160	0.94	0.71	7.92	0.72	0.61	0.38	0.44	0.52									
165	0.23	0.15	0.46	0.30	0.68	0.38	0.46	0.53									
170	0.23	0.15	0.46	0.30	0.68	0.38	0.46	0.53									
175	0.38	0.15	0.46	0.38	0.61	0.38	0.30	0.45									
180	0.38	0.31	0.46	0.38	0.53	0.38	0.23	0.45									

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: