

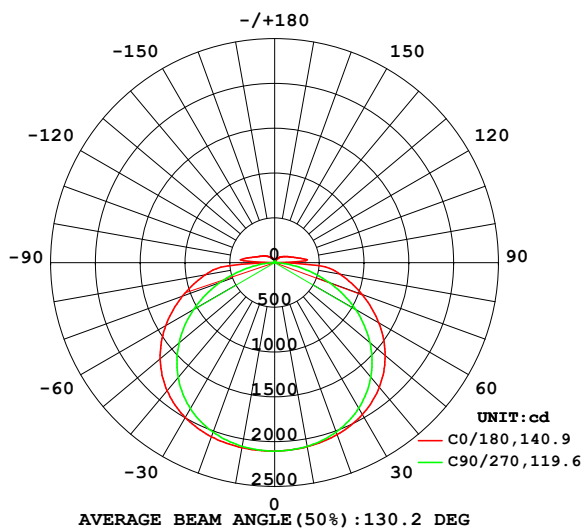
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

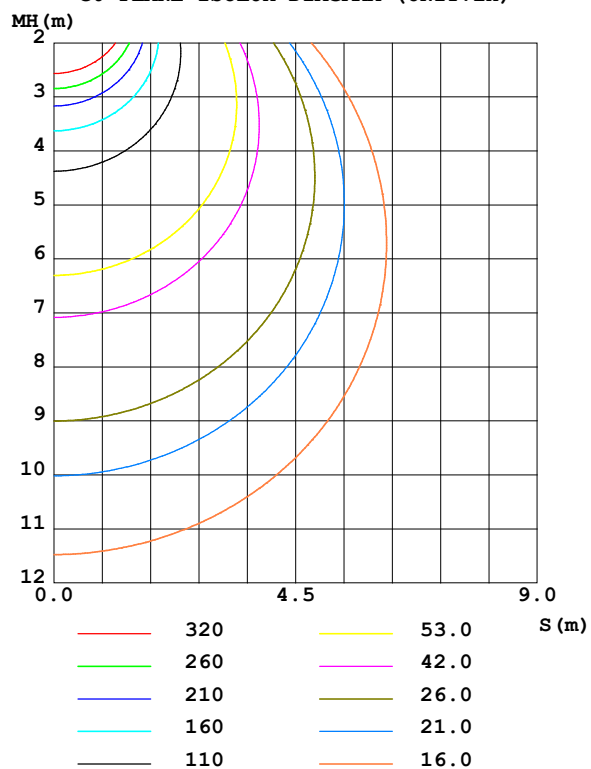
Test:U:119.87V I:0.5303A P:63.341W PF:0.9964 Freq:60.01Hz Lamp Flux:7968.36x1 lm		
NAME: ASD-WRL6-4A65 6500 65W		
MFR.: ASD Lighting Corp		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 125.81 lm/W			
MODEL		I _{max} (cd)	2105	S/MH(C0/180)	1.42
NOMINAL POWER(W)	65	LOR(%)	100.0	S/MH(C90/270)	1.33
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	7968.7	η UP,DN(C0-180)	3.2,46.4
NOMINAL FLUX(lm)	7968.36	CIE CLASS	DIRECT	η UP,DN(C180-360)	3.3,47.0
LAMPS INSIDE	1	η up(%)	6.5	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	93.5	CIBSE SHR MAX	1.55

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:2026-07-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
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	2087	2085	2083	2092	2099	2093	2083	2086	0- 10	200.1	200.1	2.51,2.51
20	2043	2028	2012	2043	2068	2045	2014	2030	10- 20	584.7	784.8	9.85,9.85
30	1958	1917	1877	1944	1997	1946	1883	1925	20- 30	918.8	1704	21.4,21.4
40	1817	1739	1671	1784	1868	1779	1675	1756	30- 40	1161	2865	35.9,36
50	1612	1487	1390	1549	1670	1534	1393	1516	40- 50	1272	4136	51.9,51.9
60	1343	1173	1043	1244	1403	1221	1045	1212	50- 60	1226	5362	67.3,67.3
70	1038	824.1	644.0	898.4	1095	861.3	646.5	869.1	60- 70	1027	6389	80.2,80.2
80	741.4	488.0	243.5	560.3	787.1	510.7	246.6	537.5	70- 80	722.4	7112	89.2,89.3
90	22.57	13.61	2.480	15.72	23.74	14.36	2.482	14.30	80- 90	335.0	7447	93.5,93.5
100	293.2	134.1	4.592	171.6	311.3	136.8	4.654	162.8	90-100	156.3	7603	95.4,95.4
110	189.8	92.97	7.706	117.5	200.9	96.35	9.076	109.2	100-110	131.3	7735	97.1,97.1
120	140.8	70.74	5.801	91.60	150.8	79.54	4.888	78.01	110-120	89.20	7824	98.2,98.2
130	101.6	54.57	6.433	71.13	112.0	73.38	7.541	49.26	120-130	61.76	7885	99,99
140	73.52	42.71	7.097	53.01	81.71	66.60	13.73	28.17	130-140	41.03	7927	99.5,99.5
150	51.68	30.58	7.590	39.25	56.00	53.13	18.01	14.05	140-150	24.77	7951	99.8,99.8
160	28.90	19.25	7.942	7.234	33.28	33.36	17.02	9.636	150-160	12.21	7964	99.9,99.9
170	18.62	14.23	9.617	15.15	19.51	19.72	13.13	9.909	160-170	3.981	7967	100,100
180	9.218	10.39	9.923	9.991	9.983	9.624	10.46	9.860	170-180	1.200	7969	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:2026-07-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 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:119.87V I:0.5303A P:63.341W PF:0.9964 Freq:60.01Hz

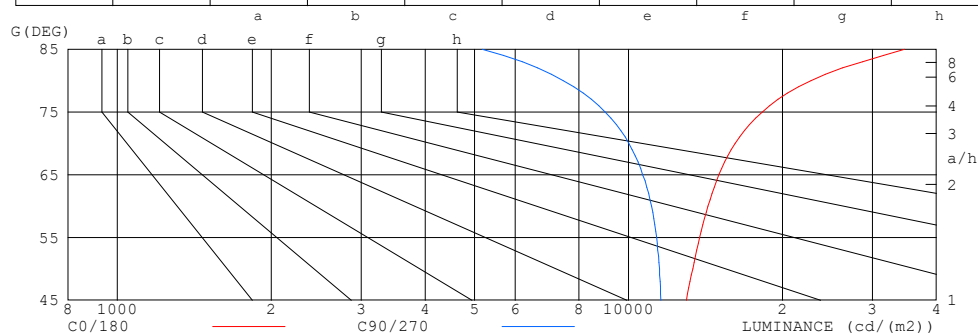
Lamp Flux:7968.36x1 lm

NAME: ASD-WRL6-4A65 6500 65W

MFR.: ASD Lighting Corp

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	34678	5170
80	22732	7453
75	18255	9003
70	16164	10009
65	15019	10659
60	14303	11092
55	13777	11344
50	13352	11494
45	12977	11571

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2026-07-29

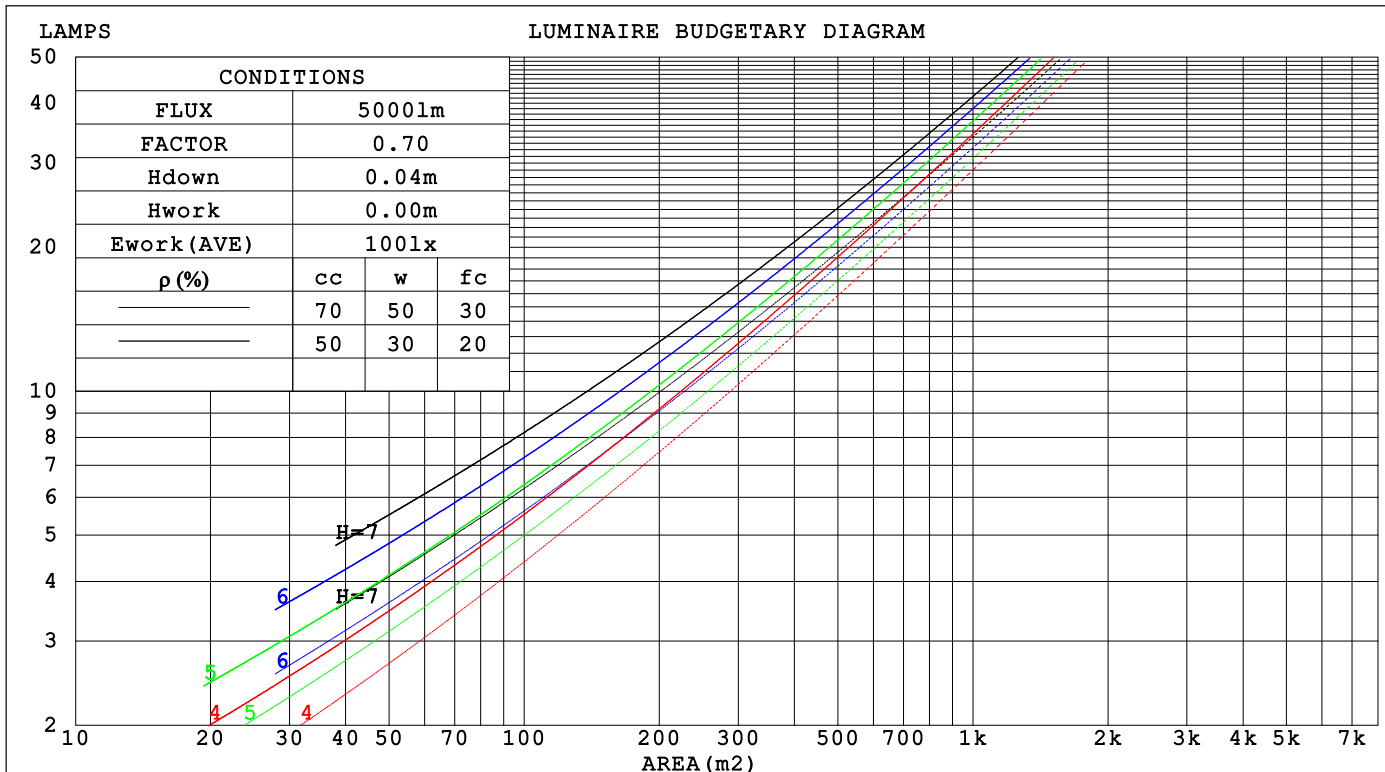
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2600]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.87V I:0.5303A P:63.341W PF:0.9964 Freq:60.01Hz		
Lamp Flux:7968.36x1 lm		
NAME: ASD-WRL6-4A65 6500 65W		
MFR.: ASD Lighting Corp		

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:2026-07-29

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=1.2600]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Test:U:119.87V I:0.5303A P:63.341W PF:0.9964 Freq:60.01Hz											
Lamp Flux:7968.36x1 lm											
NAME: ASD-WRL6-4A65 6500 65W											
MFR.: ASD Lighting Corp											

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	.350	.199	.063	.341	.195	.062	.324	.186	.059	.308	.178	.057	.293	.170	.055	
2.0	.317	.174	.053	.309	.170	.052	.294	.163	.051	.280	.157	.049	.267	.151	.048	
3.0	.288	.153	.046	.281	.150	.045	.267	.145	.044	.254	.139	.043	.242	.134	.042	
4.0	.262	.136	.040	.256	.134	.040	.244	.129	.039	.232	.125	.038	.221	.120	.037	
5.0	.240	.123	.035	.235	.120	.035	.223	.116	.034	.213	.112	.033	.203	.109	.033	
6.0	.221	.111	.032	.216	.109	.031	.206	.106	.031	.197	.102	.030	.188	.099	.029	
7.0	.205	.101	.029	.200	.100	.028	.191	.097	.028	.183	.094	.027	.175	.091	.027	
8.0	.191	.093	.026	.186	.092	.026	.178	.089	.025	.170	.086	.025	.163	.084	.024	
9.0	.178	.086	.024	.174	.085	.024	.167	.082	.023	.160	.080	.023	.153	.078	.022	
10.0	.167	.080	.022	.163	.079	.022	.157	.077	.022	.150	.075	.021	.144	.072	.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	.240	.240	.240	.205	.205	.205	.140	.140	.140	.081	.081	.081	.026	.026	.026	
1.0	.233	.206	.181	.200	.177	.156	.137	.122	.108	.079	.070	.063	.025	.023	.020	
2.0	.226	.182	.146	.194	.157	.126	.133	.109	.088	.077	.063	.051	.025	.020	.017	
3.0	.219	.165	.123	.188	.143	.106	.129	.099	.075	.074	.058	.044	.024	.019	.014	
4.0	.211	.152	.107	.181	.132	.093	.125	.092	.066	.072	.054	.039	.023	.018	.013	
5.0	.204	.142	.097	.175	.123	.084	.121	.086	.060	.070	.051	.035	.022	.016	.012	
6.0	.196	.134	.089	.169	.116	.078	.116	.081	.055	.068	.048	.033	.022	.016	.011	
7.0	.189	.127	.084	.163	.110	.073	.113	.077	.052	.065	.046	.031	.021	.015	.010	
8.0	.183	.122	.080	.157	.106	.070	.109	.074	.049	.063	.044	.029	.020	.014	.010	
9.0	.176	.117	.077	.152	.101	.067	.105	.071	.047	.061	.042	.028	.020	.014	.009	
10.0	.171	.113	.074	.147	.098	.065	.102	.069	.046	.060	.041	.027	.019	.013	.009	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2026-07-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
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:119.87V I:0.5303A P:63.341W PF:0.9964 Freq:60.01Hz		
Lamp Flux:7968.36x1 lm		
NAME: ASD-WRL6-4A65 6500 65W		
MFR.: ASD Lighting Corp		

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) $k(RI) \times RCR = 5$									
$k = 0.60$	52	40	33	51	40	33	50	39	32	26
0.80	62	50	42	61	49	42	59	48	41	33
1.00	70	58	50	69	57	50	66	59	49	41
1.25	77	66	58	76	65	57	72	63	56	48
1.50	83	71	64	81	70	63	77	68	61	53
2.00	90	80	73	88	78	72	83	76	70	60
2.50	94	85	78	92	83	77	87	80	74	64
3.00	98	90	83	95	88	82	90	84	79	69
4.00	102	95	90	99	93	88	94	89	85	74
5.00	105	99	94	102	97	92	96	92	88	77
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

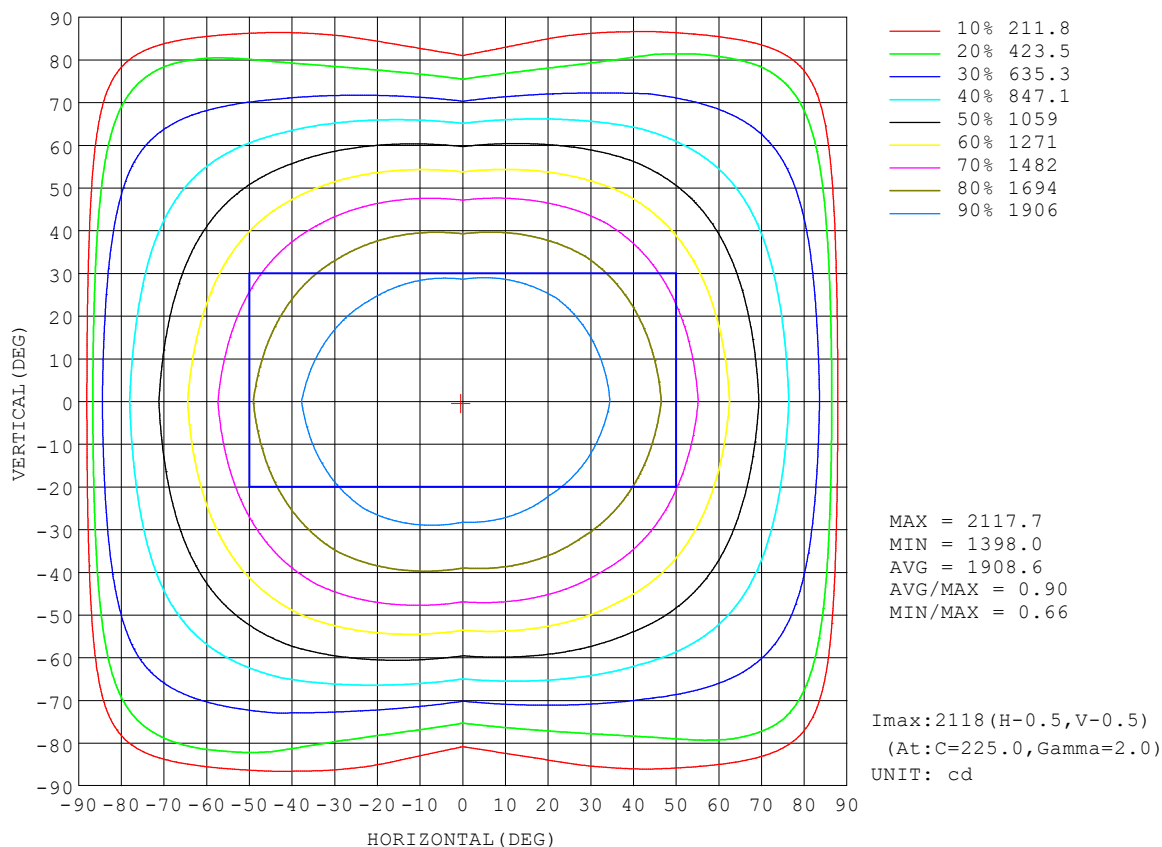
C Range: 0 - 360DEG
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 Temperature:25.3℃
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EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Test:U:119.87V I:0.5303A P:63.341W PF:0.9964 Freq:60.01Hz Lamp Flux:7968.36x1 lm		
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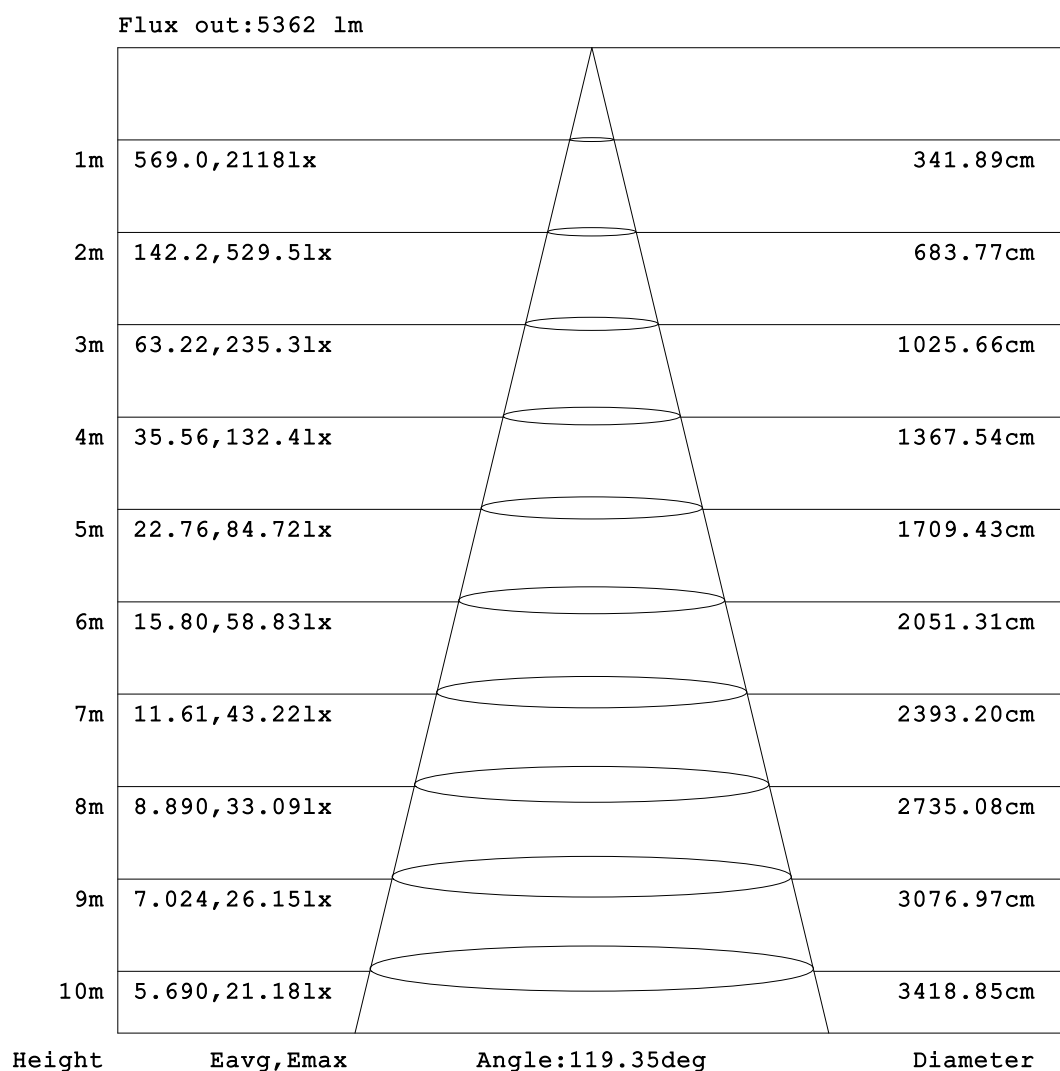
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Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2026-07-29

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Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:119.87V I:0.5303A P:63.341W PF:0.9964 Freq:60.01Hz Lamp Flux:7968.36x1 lm		
NAME: ASD-WRL6-4A65 6500 65W		
MFR.: ASD Lighting Corp		



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

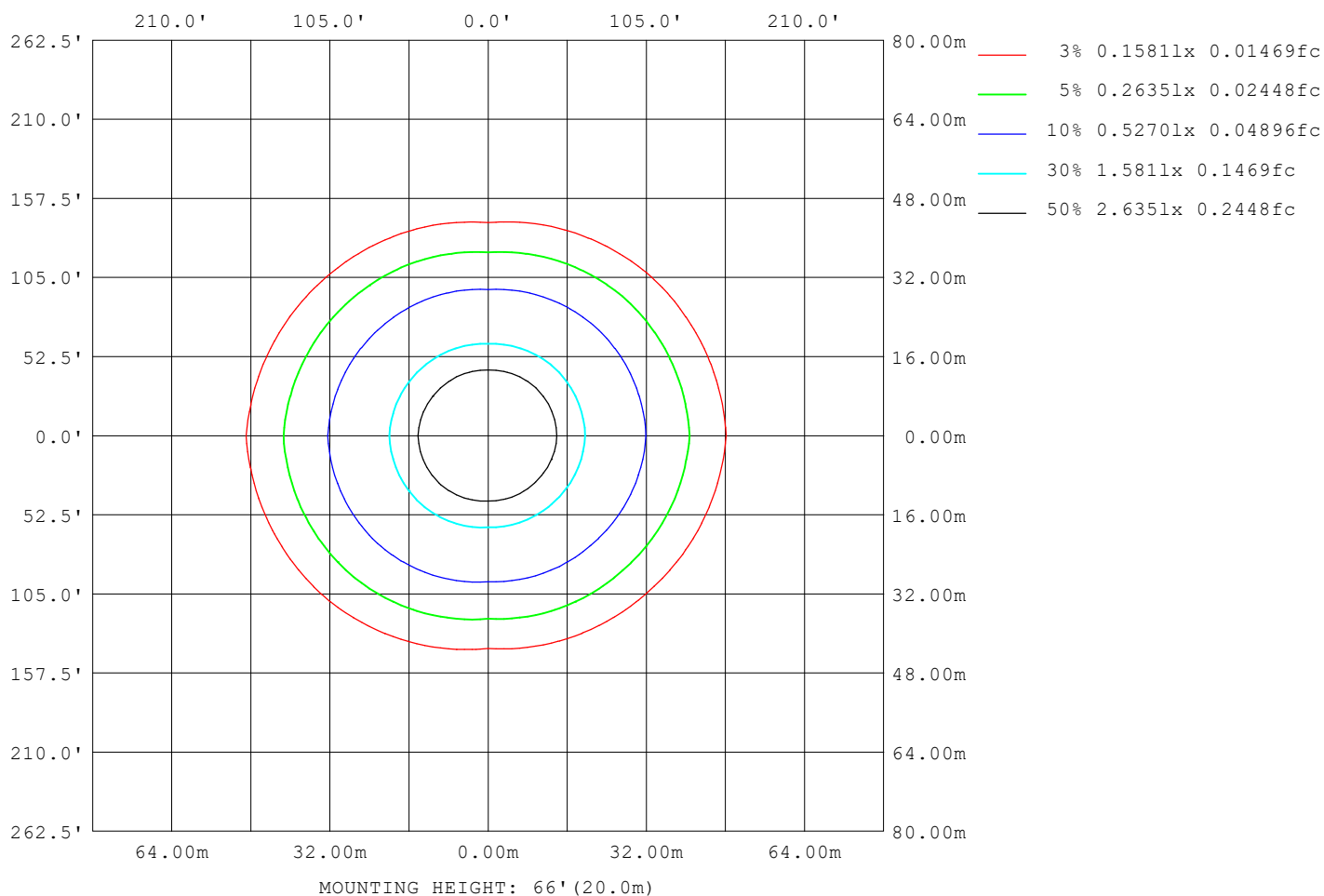
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Temperature:25.3℃
Operators:DAMIN
Test Date:2026-07-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
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

ISOLUX DIAGRAM

Test:U:119.87V I:0.5303A P:63.341W PF:0.9964 Freq:60.01Hz		
Lamp Flux:7968.36x1 lm		
NAME: ASD-WRL6-4A65 6500 65W		
MFR.: ASD Lighting Corp		



C Range: 0 - 360DEG
C Interval: 45.0DEG
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
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

LED Avg.L Report

Test:U:119.87V I:0.5303A P:63.341W PF:0.9964 Freq:60.01Hz		
Lamp Flux:7968.36x1 lm		
NAME: ASD-WRL6-4A65 6500 65W		
MFR.: ASD Lighting Corp		

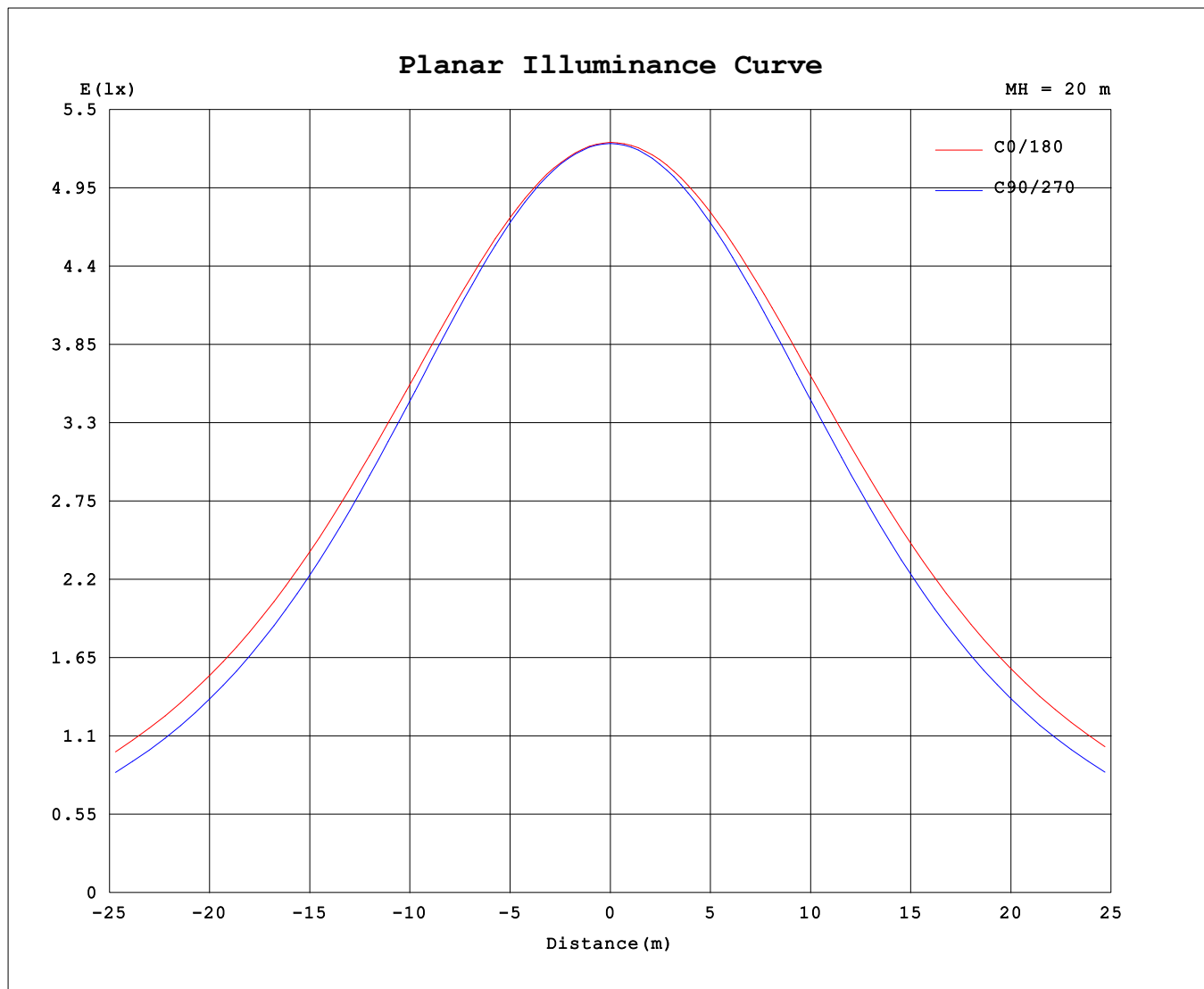
AvgL	cd/m2
L_0~180 (65) av	15362
L_0~180 (75) av	18742
L_0~180 (85) av	35727
L_90~270 (65) av	10674
L_90~270 (75) av	9028
L_90~270 (85) av	5229
L_45 (65) av	13078
L_45 (75) av	14142
L_45 (85) av	22223

Standard: GB/T 29293-2012

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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
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: 2026-07-29

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=1.2600]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.87V I:0.5303A P:63.341W PF:0.9964 Freq:60.01Hz																	
Lamp Flux:7968.36x1 lm																	
NAME: ASD-WRL6-4A65 6500 65W																	
MFR.: ASD Lighting Corp																	

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315									
0	2104	2104	2104	2104	2104	2104	2104	2104									
5	2098	2099	2099	2101	2104	2102	2099	2100									
10	2087	2085	2083	2092	2099	2093	2083	2086									
15	2070	2061	2055	2072	2087	2074	2055	2064									
20	2043	2028	2012	2043	2068	2045	2014	2030									
25	2007	1980	1953	2001	2039	2004	1957	1984									
30	1958	1917	1877	1944	1997	1946	1883	1925									
35	1895	1837	1783	1873	1940	1871	1789	1849									
40	1817	1739	1671	1784	1868	1779	1675	1756									
45	1724	1622	1539	1676	1778	1666	1543	1644									
50	1612	1487	1390	1549	1670	1534	1393	1516									
55	1484	1336	1224	1404	1544	1386	1227	1370									
60	1343	1173	1043	1244	1403	1221	1045	1212									
65	1192	1000	847	1073	1251	1044	850	1043									
70	1038	824	644	898	1095	861	647	869									
75	887	651	438	725	938	681	441	698									
80	741	488	243	560	787	511	247	538									
85	568	331	84.8	399	604	348	86.7	380									
90	22.6	13.6	2.48	15.7	23.7	14.4	2.48	14.3									
95	369	181	4.20	227	387	177	4.28	218									
100	293	134	4.59	172	311	137	4.65	163									
105	232	108	8.49	136	245	111	6.04	129									
110	190	93.0	7.71	118	201	96.3	9.08	109									
115	163	81.5	6.75	104	173	86.7	6.34	93.2									
120	141	70.7	5.80	91.6	151	79.5	4.89	78.0									
125	122	63.1	6.26	81.6	132	76.1	5.34	63.7									
130	102	54.6	6.43	71.1	112	73.4	7.54	49.3									
135	89.1	48.4	6.79	61.2	98.2	69.7	9.54	37.4									
140	73.5	42.7	7.10	53.0	81.7	66.6	13.7	28.2									
145	63.3	36.9	7.33	46.9	69.8	59.3	16.9	7.43									
150	51.7	30.6	7.59	39.2	56.0	53.1	18.0	14.0									
155	42.4	14.7	7.67	22.2	46.4	44.7	18.2	11.0									
160	28.9	19.2	7.94	7.23	33.3	33.4	17.0	9.64									
165	8.87	17.5	8.56	20.5	7.33	7.24	15.9	9.86									
170	18.6	14.2	9.62	15.2	19.5	19.7	13.1	9.91									
175	12.3	12.2	9.84	12.1	11.9	12.1	11.8	9.87									
180	9.22	10.4	9.92	9.99	9.98	9.62	10.5	9.86									

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
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Operators:DAMIN
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2600]
Remarks: