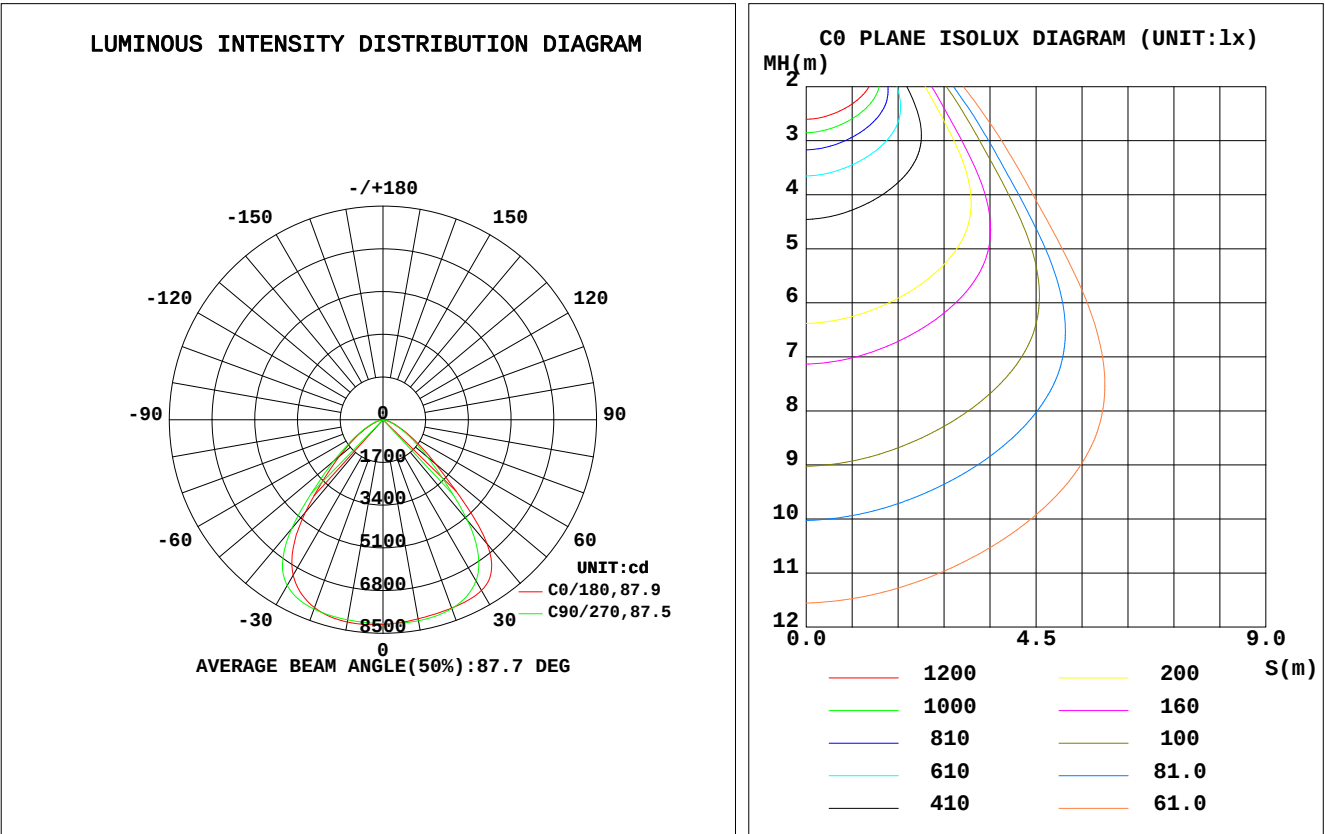


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: SKYLON工矿灯 圆形 100W 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 159.62 lm/W			
MODEL		Imax(cd)	8182	S/MH(C0/180)	1.21
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	16338	η UP, DN(C0-180)	0.3, 50.7
NOMINAL FLUX(lm)	16337.7	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.3, 48.8
LAMPS INSIDE	1	η up(%)	0.6	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230	η down(%)	99.4	CIBSE SHR MAX	1.30



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 26 March 2025

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.295
Humidity: 65.0%
Test Distance: 10.730m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum,lamp
10	8046	8121	8175	8086					0- 10	775.0	775.0	4.74,4.74
20	7977	7997	7959	8020					10- 20	2283	3058	18.7,18.7
30	7844	7403	7148	7617					20- 30	3603	6661	40.8,40.8
40	6439	5223	4812	5643					30- 40	4199	10860	66.5,66.5
50	2738	2329	2274	2565					40- 50	2943	13804	84.5,84.5
60	1140	1022	1011	1123					50- 60	1505	15309	93.7,93.7
70	424.5	375.2	376.0	427.5					60- 70	684.2	15993	97.9,97.9
80	68.56	64.07	76.05	85.22					70- 80	235.3	16228	99.3,99.3
90	1.428	1.492	1.611	1.548					80- 90	17.14	16245	99.4,99.4
100	2.655	2.849	3.040	2.798					90-100	2.272	16247	99.4,99.4
110	5.246	5.865	6.374	5.557					100-110	4.339	16252	99.5,99.5
120	10.13	11.55	12.44	10.68					110-120	8.198	16260	99.5,99.5
130	16.78	18.82	19.63	17.38					120-130	13.06	16273	99.6,99.6
140	23.65	25.58	26.28	24.07					130-140	16.66	16290	99.7,99.7
150	29.37	30.99	31.70	29.99					140-150	17.38	16307	99.8,99.8
160	34.94	36.90	38.05	36.14					150-160	15.38	16322	99.9,99.9
170	40.68	42.30	43.16	41.91					160-170	11.13	16334	100,100
180	44.33	44.64	44.49	44.54					170-180	4.106	16338	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

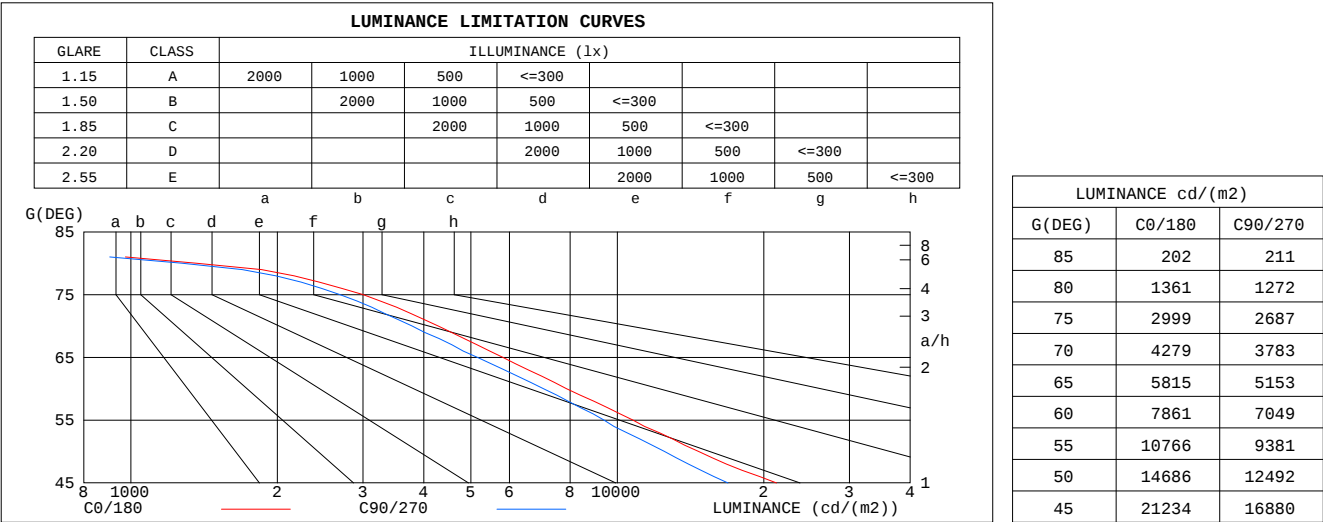
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:26 March 2025

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:10.730m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINANCE LIMITATION CURVES

NAME: SKYLON工矿灯 圆形 100W 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:26 March 2025

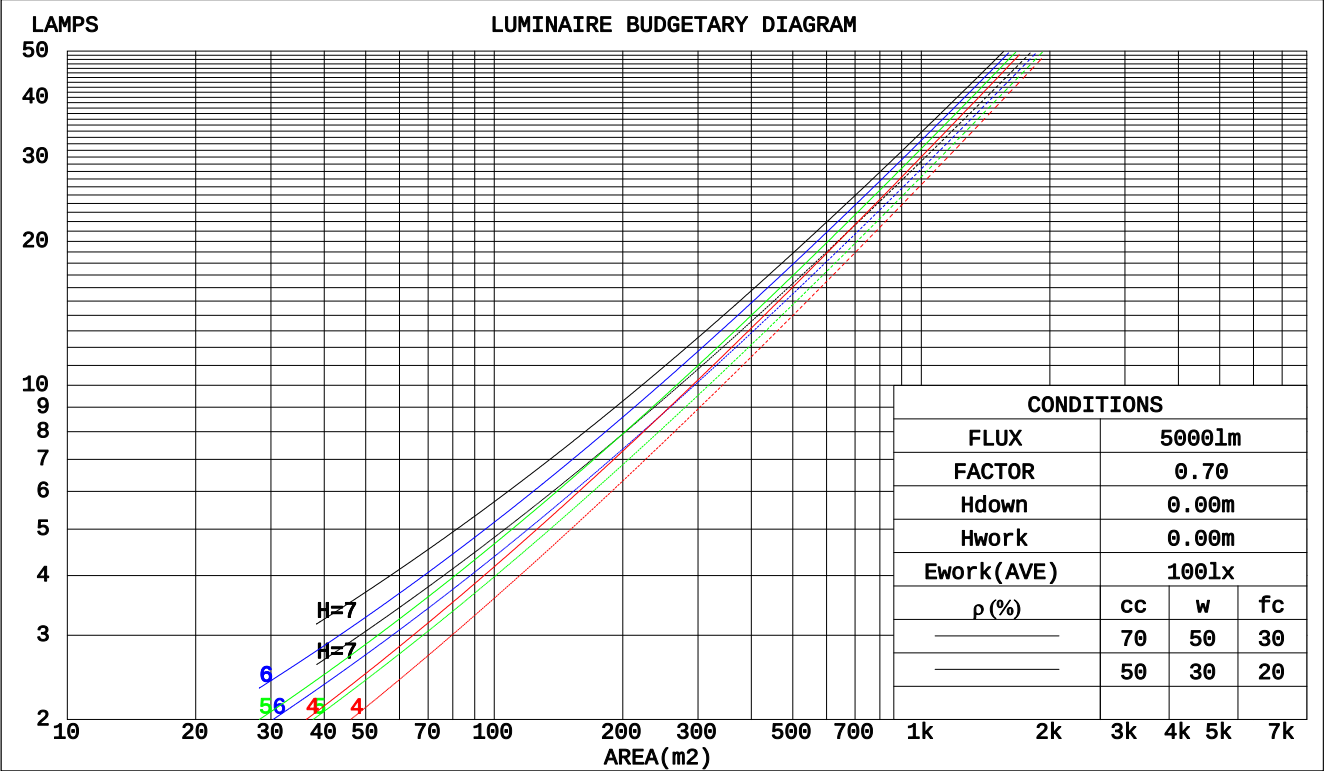
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:10.730m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: SKYLON工矿灯 圆形 100W 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:26 March 2025

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:10.730m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

NAME: SKYLON工矿灯 圆形 100W 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

ρ _{cc}	80%			70%			50%			30%			10%			0	
ρ _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρ _{fc}	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.230	.131	.041	.222	.127	.040	.209	.120	.038	.197	.114	.036	.186	.108	.035		
2.0	.224	.123	.038	.218	.120	.037	.207	.115	.036	.196	.110	.034	.186	.105	.033		
3.0	.214	.114	.034	.209	.112	.034	.199	.108	.033	.190	.104	.032	.181	.100	.031		
4.0	.203	.105	.031	.198	.104	.031	.189	.100	.030	.181	.097	.029	.174	.094	.029		
5.0	.192	.098	.028	.188	.096	.028	.180	.094	.028	.173	.091	.027	.166	.089	.027		
6.0	.182	.091	.026	.178	.090	.026	.171	.088	.025	.165	.085	.025	.158	.083	.025		
7.0	.172	.085	.024	.169	.084	.024	.162	.082	.024	.157	.080	.023	.151	.079	.023		
8.0	.163	.080	.022	.160	.079	.022	.154	.077	.022	.149	.076	.022	.144	.074	.022		
9.0	.155	.075	.021	.152	.074	.021	.147	.073	.021	.142	.071	.020	.138	.070	.020		
10.0	.147	.070	.020	.145	.070	.019	.140	.069	.019	.136	.067	.019	.132	.066	.019		

ρ _{cc}	80%			70%			50%			30%			10%			0
ρ _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.195	.195	.195	.166	.166	.166	.114	.114	.114	.065	.065	.065	.021	.021	.021	
1.0	.179	.161	.145	.153	.138	.125	.105	.095	.086	.060	.055	.050	.019	.018	.016	
2.0	.168	.137	.111	.144	.118	.096	.098	.081	.067	.057	.047	.039	.018	.015	.013	
3.0	.158	.118	.087	.136	.102	.075	.093	.071	.053	.054	.041	.031	.017	.013	.010	
4.0	.150	.104	.070	.129	.090	.060	.088	.063	.043	.051	.037	.025	.016	.012	.008	
5.0	.143	.093	.057	.122	.081	.050	.084	.057	.035	.049	.033	.021	.016	.011	.007	
6.0	.136	.085	.048	.117	.073	.042	.081	.051	.030	.047	.030	.018	.015	.010	.006	
7.0	.130	.078	.041	.112	.067	.036	.077	.047	.026	.045	.028	.015	.014	.009	.005	
8.0	.124	.072	.036	.107	.062	.031	.074	.044	.022	.043	.026	.013	.014	.008	.004	
9.0	.119	.067	.032	.102	.058	.028	.071	.041	.020	.041	.024	.012	.013	.008	.004	
10.0	.114	.063	.029	.098	.054	.025	.068	.038	.018	.040	.023	.011	.013	.007	.004	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:26 March 2025

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:10.730m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR(Unified Glare Rating) Table

NAME: SKYLON工矿灯 圆形 100W 4000K						TYPE:			WEIGHT:		
SPEC.:						DIM.:			SERIAL No.:		
MFR.:						SUR.:			Shielding Angle:		
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		20.7	22.0	21.0	22.2	22.4	20.1	21.4	20.4	21.6	21.8
	3H	20.9	22.0	21.2	22.3	22.5	20.3	21.4	20.6	21.7	21.9
	4H	20.9	22.0	21.2	22.2	22.5	20.3	21.4	20.6	21.6	21.9
	6H	20.8	21.9	21.2	22.1	22.4	20.2	21.2	20.6	21.5	21.8
	8H	20.8	21.8	21.1	22.1	22.3	20.2	21.2	20.5	21.4	21.7
	12H	20.7	21.7	21.1	22.0	22.3	20.1	21.1	20.5	21.4	21.7
4H	2H	20.7	21.8	21.0	22.1	22.3	20.2	21.3	20.5	21.5	21.8
	3H	21.0	21.9	21.3	22.2	22.5	20.4	21.4	20.8	21.6	21.9
	4H	21.0	21.9	21.4	22.2	22.5	20.5	21.3	20.8	21.6	22.0
	6H	21.0	21.7	21.4	22.1	22.4	20.4	21.2	20.8	21.5	21.9
	8H	20.9	21.6	21.3	22.0	22.4	20.4	21.1	20.8	21.4	21.8
	12H	20.9	21.5	21.3	21.9	22.3	20.3	21.0	20.8	21.4	21.8
8H	4H	20.9	21.6	21.3	22.0	22.4	20.4	21.1	20.8	21.5	21.8
	6H	20.9	21.5	21.4	21.9	22.3	20.4	20.9	20.8	21.4	21.8
	8H	20.9	21.4	21.3	21.8	22.3	20.3	20.8	20.8	21.3	21.7
	12H	20.8	21.3	21.3	21.7	22.2	20.3	20.7	20.8	21.2	21.7
12H	4H	20.9	21.5	21.3	21.9	22.3	20.4	21.0	20.8	21.4	21.8
	6H	20.9	21.4	21.3	21.8	22.3	20.3	20.8	20.8	21.3	21.7
	8H	20.8	21.3	21.3	21.7	22.2	20.3	20.7	20.8	21.2	21.7
Variations with the observer position at spacings:											
S = 1.0H		+ 1.3 / - 2.1					+ 1.4 / - 2.2				
1.5H		+ 1.6 / - 1.6					+ 1.6 / - 1.3				
2.0H		+ 3.1 / - 2.6					+ 2.5 / - 2.3				

CIE Pub.117 Corrected 16338 lm Total Lamp Luminous Flux.(8log(F/F0) = 9.7)

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:26 March 2025

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:10.730m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

NAME: SKYLON工矿灯 圆形 100W 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

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) $k(RI) \times RCR = 5$									
$k = 0.60$	70	61	55	70	61	55	69	60	55	50
0.80	80	71	65	79	71	65	78	70	65	59
1.00	87	79	74	86	79	73	84	79	73	67
1.25	94	86	81	92	85	80	90	84	79	74
1.50	98	90	85	96	90	85	93	88	84	78
2.00	103	96	92	101	95	91	98	93	90	83
2.50	105	100	95	103	98	94	100	96	92	85
3.00	108	103	99	106	101	98	102	98	95	88
4.00	110	106	103	108	105	102	104	101	99	91
5.00	112	109	106	110	107	104	105	103	101	92
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended				SHRNOM = 1.25		

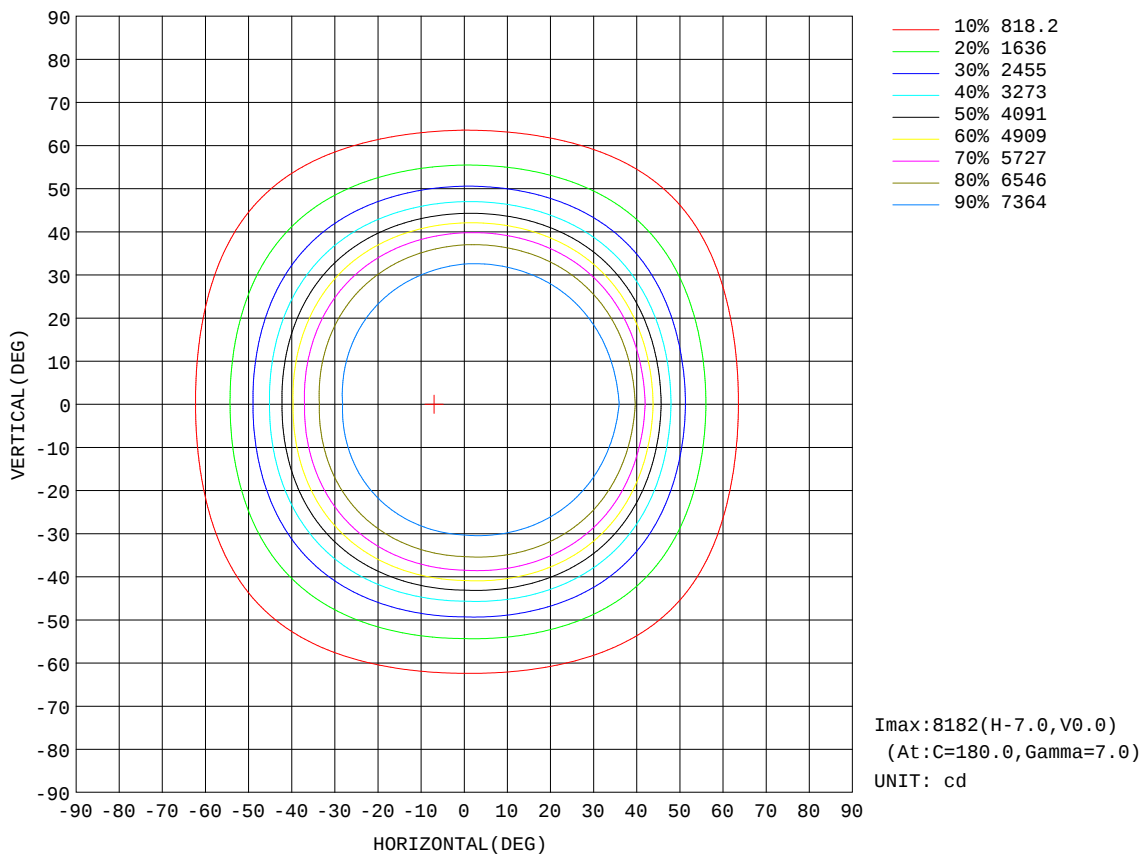
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:26 March 2025

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:10.730m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

NAME: SKYLON工矿灯 圆形 100W 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



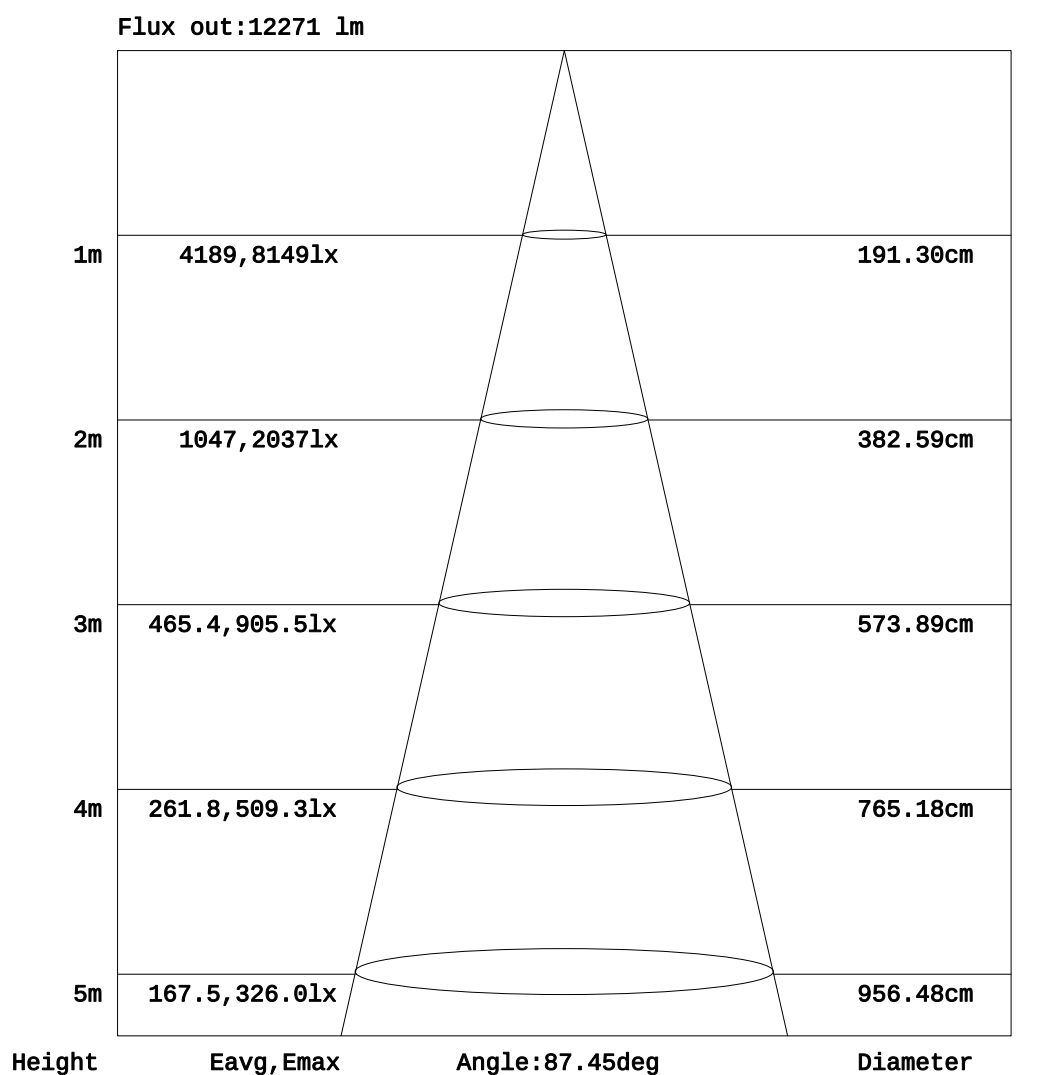
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 26 March 2025

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.295
Humidity: 65.0%
Test Distance: 10.730m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

NAME: SKYLON工矿灯 圆形 100W 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



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

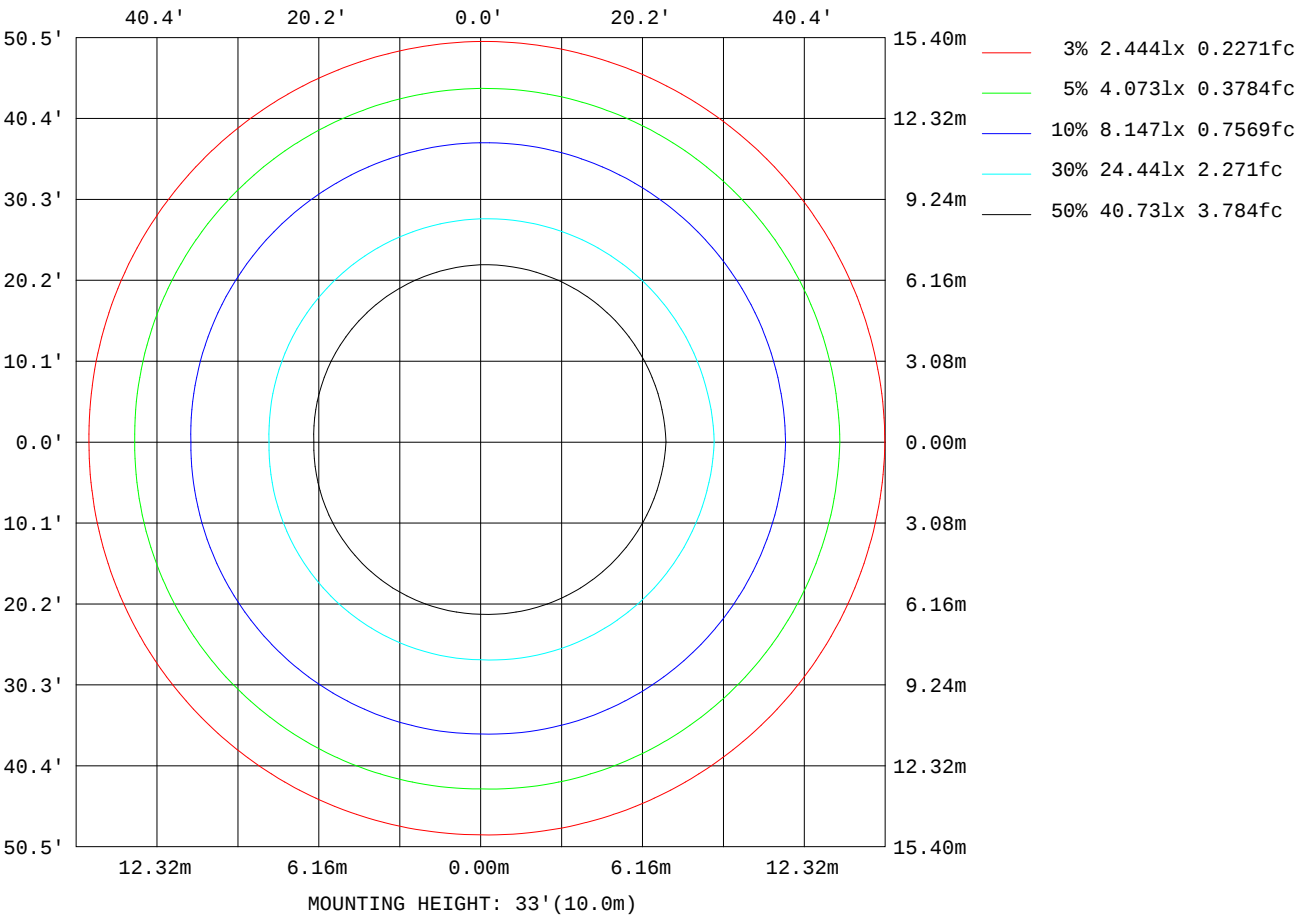
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:26 March 2025

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:10.730m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

NAME: SKYLON工矿灯 圆形 100W 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:26 March 2025

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:10.730m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LED Avg.L Report

NAME: SKYLON工矿灯 圆形 100W 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

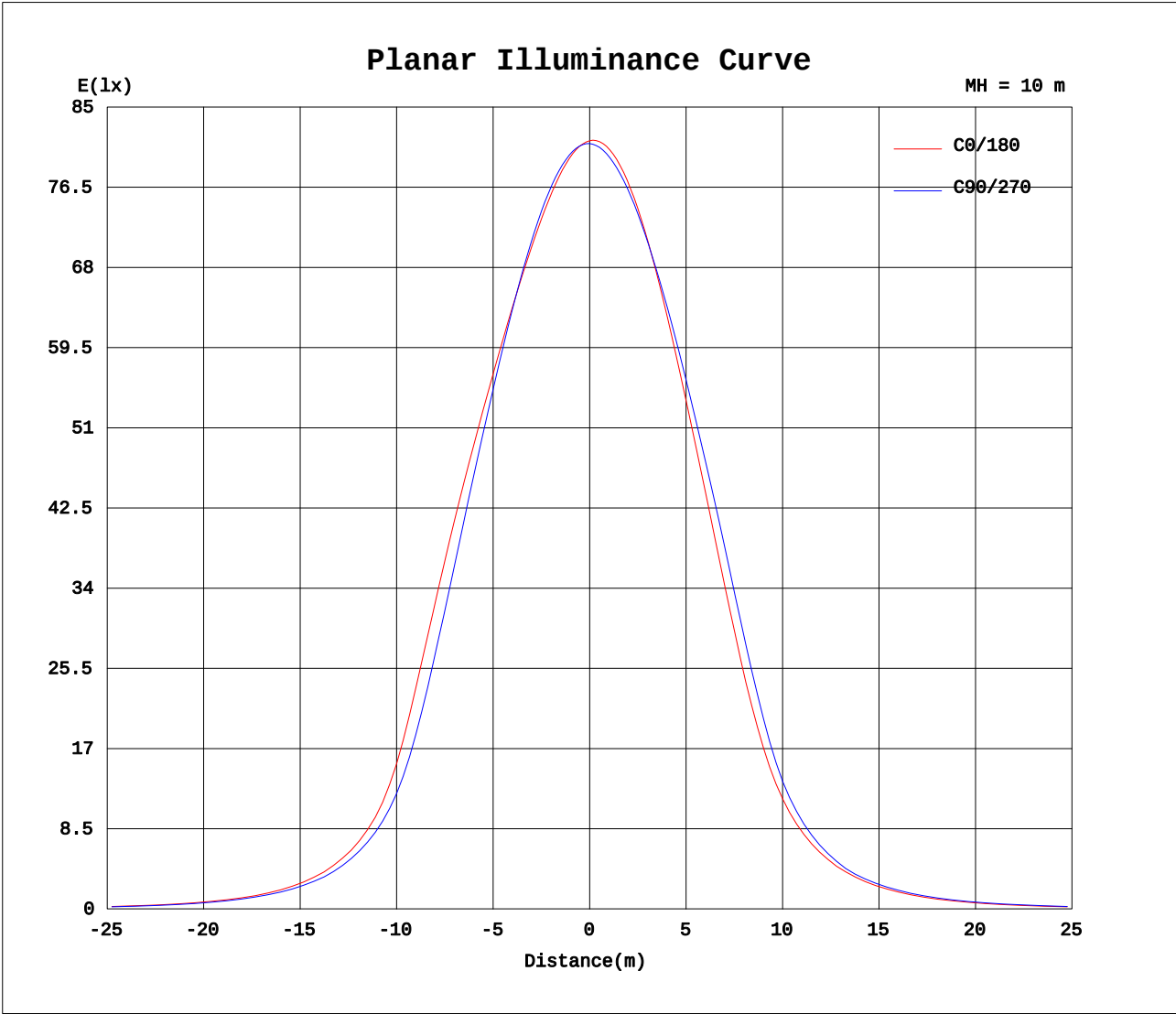
AvgL	cd/m2
L_0~180(65)av	5458
L_0~180(75)av	2851
L_0~180(85)av	225
L_90~270(65)av	5484
L_90~270(75)av	2888
L_90~270(85)av	232
L_45(65)av	5452
L_45(75)av	2865
L_45(85)av	231

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:26 March 2025

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:10.730m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:26 March 2025

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:10.730m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: SKYLON工矿灯 圆形 100W 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1				UNIT: cd															
γ (DEG)	C(DEG)																		
	0	90	180	270															
0	8144	8114	8144	8114															
5	8099	8124	8177	8100															
10	8046	8121	8175	8086															
15	8002	8089	8115	8067															
20	7977	7997	7959	8020															
25	7944	7794	7659	7902															
30	7844	7403	7148	7617															
35	7491	6622	6236	6981															
40	6439	5223	4812	5643															
45	4354	3461	3310	3833															
50	2738	2329	2274	2565															
55	1791	1560	1546	1692															
60	1140	1022	1011	1123															
65	713	632	625	713															
70	424	375	376	428															
75	225	202	203	232															
80	68.6	64.1	76.1	85.2															
85	5.11	5.33	6.24	6.41															
90	1.43	1.49	1.61	1.55															
95	1.92	2.03	2.17	2.04															
100	2.66	2.85	3.04	2.80															
105	3.71	4.06	4.37	3.92															
110	5.25	5.86	6.37	5.56															
115	7.39	8.41	9.17	7.85															
120	10.1	11.6	12.4	10.7															
125	13.3	15.1	16.0	14.0															
130	16.8	18.8	19.6	17.4															
135	20.4	22.3	23.2	20.8															
140	23.7	25.6	26.3	24.1															
145	26.7	28.5	29.0	27.2															
150	29.4	31.0	31.7	30.0															
155	32.0	33.7	34.7	33.0															
160	34.9	36.9	38.0	36.1															
165	38.0	40.2	41.2	39.5															
170	40.7	42.3	43.2	41.9															
175	42.8	43.8	44.0	43.4															
180	44.3	44.6	44.5	44.5															

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:26 March 2025

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:10.730m [K=1.0000]
Remarks: