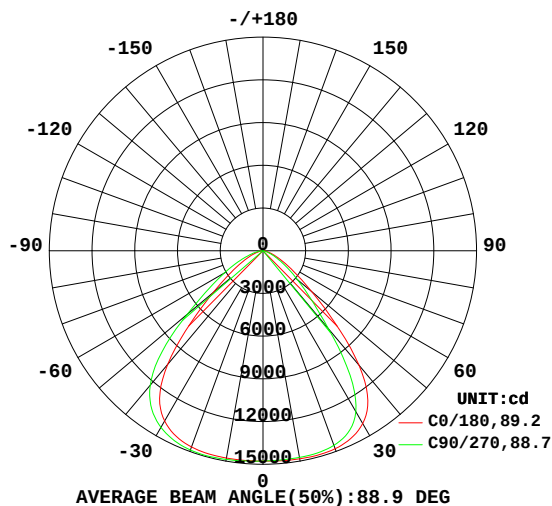


LUMINAIRE PHOTOMETRIC TEST REPORT

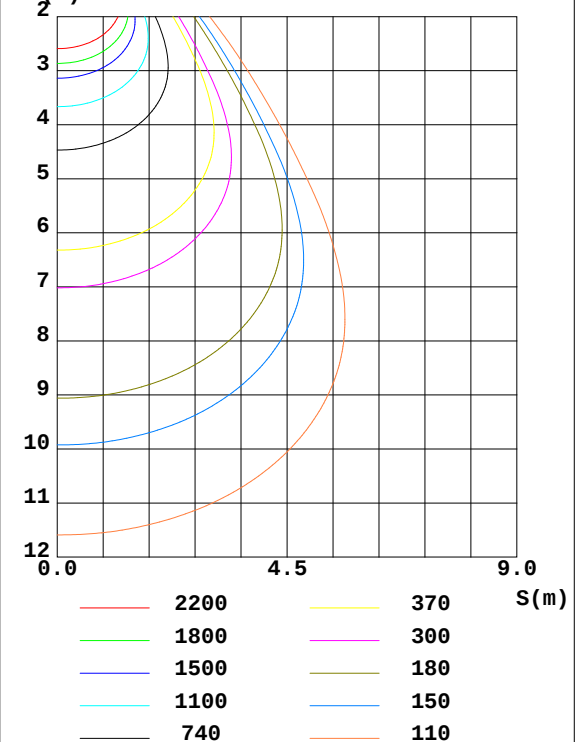
NAME: SKYLON工矿灯 CCT 200W 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 157.73 lm/W			
MODEL		Imax(cd)	14928	S/MH(C0/180)	1.28
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.40
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	30419	η UP, DN(C0-180)	0.2, 45.4
NOMINAL FLUX(lm)	30418.7	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.2, 54.2
LAMPS INSIDE	1	η up(%)	0.4	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230	η down(%)	99.6	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 20 May 2024

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:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

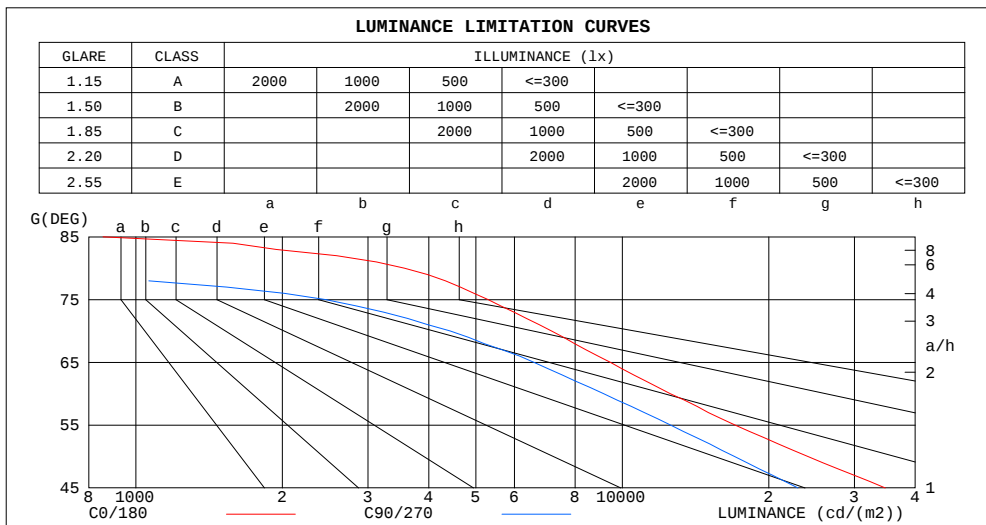
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	1484	1474	1478	1488					0- 10	1412	1412	4.64, 4.64
20	1480	1455	1467	1490					10- 20	4194	5606	18.4, 18.4
30	1401	1304	1381	1432					20- 30	6645	12251	40.3, 40.3
40	1047	716.3	1041	1232					30- 40	7658	19909	65.4, 65.4
50	448.2	316.9	456.9	696.3					40- 50	5619	25528	83.9, 83.9
60	181.8	132.7	190.0	314.5					50- 60	2870	28398	93.4, 93.4
70	70.93	43.89	73.07	130.1					60- 70	1330	29728	97.7, 97.7
80	17.96	1.718	18.53	42.10					70- 80	483.6	30212	99.3, 99.3
90	0.2238	0.2209	0.2863	3.954					80- 90	84.70	30297	99.6, 99.6
100	0.3654	0.4377	0.4767	0.3151					90-100	4.439	30301	99.6, 99.6
110	0.6895	0.8883	0.9328	0.6027					100-110	5.953	30307	99.6, 99.6
120	1.349	1.673	1.761	1.211					110-120	10.97	30318	99.7, 99.7
130	2.277	2.587	2.758	2.139					120-130	17.54	30336	99.7, 99.7
140	3.109	3.342	3.579	3.060					130-140	22.15	30358	99.8, 99.8
150	3.741	3.964	4.130	3.761					140-150	22.54	30380	99.9, 99.9
160	4.517	4.681	4.737	4.370					150-160	19.45	30400	99.9, 99.9
170	5.219	5.225	5.314	5.127					160-170	13.88	30414	100, 100
180	5.582	5.502	5.585	5.502					170-180	5.110	30419	100, 100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:20 May 2024

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:

LUMINANCE LIMITATION CURVES

NAME: SKYLON工矿灯 CCT 200W 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	856	70
80	3566	341
75	5297	2452
70	7151	4425
65	9445	6579
60	12540	9151
55	17055	12565
50	24046	17002
45	34695	22956

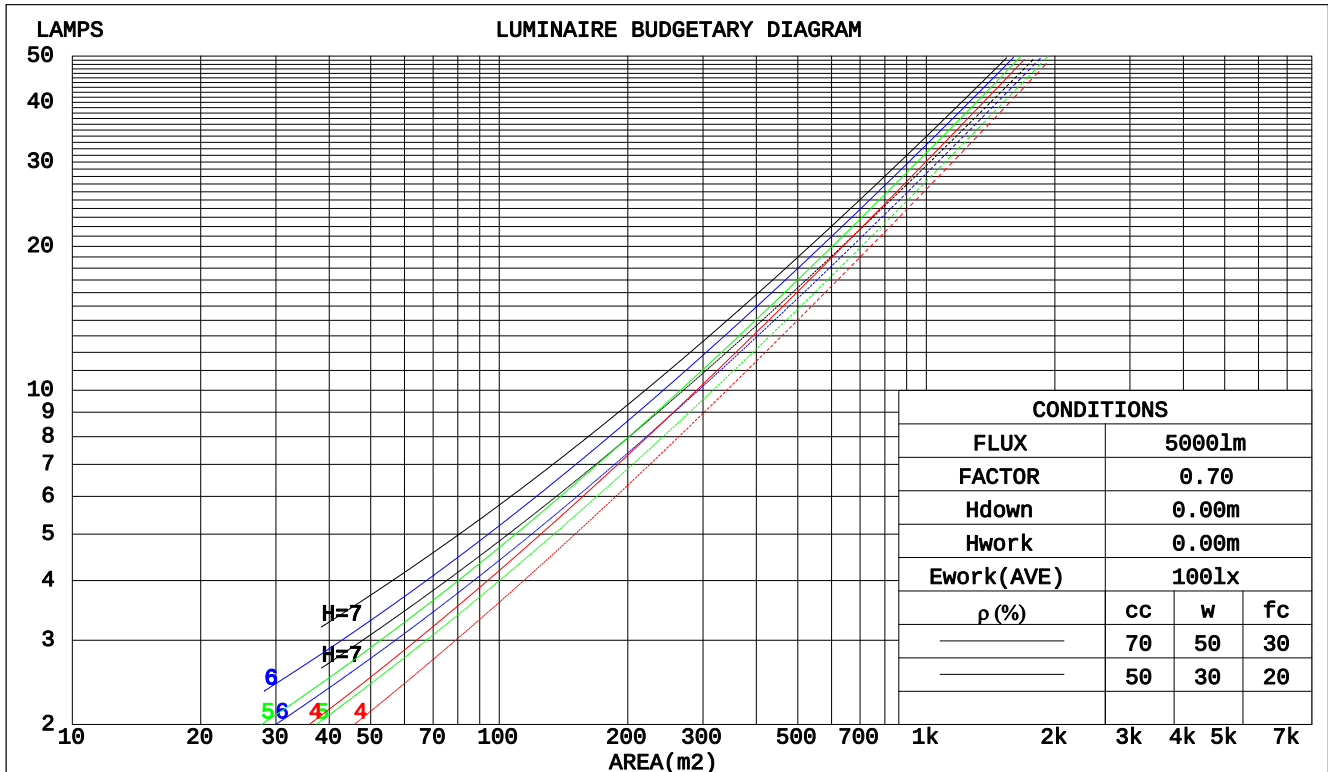
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 20 May 2024

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: SKYLON工矿灯 CCT 200W 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	Coefficients of Utilization(CU)															
RCR:Room Cavity Ratio																
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	1.08	1.05	1.02	1.06	1.03	.00	1.01	.99	.97	.97	.96	.94	.94	.92	.91	.89
2.0	.97	.92	.87	.95	.90	.86	.92	.88	.84	.89	.85	.82	.86	.83	.80	.79
3.0	.88	.81	.76	.86	.80	.75	.83	.78	.74	.81	.76	.73	.78	.74	.71	.69
4.0	.79	.72	.67	.78	.71	.66	.76	.70	.65	.73	.68	.64	.71	.67	.64	.62
5.0	.72	.65	.59	.71	.64	.59	.69	.63	.58	.67	.62	.57	.65	.61	.57	.55
6.0	.66	.58	.53	.65	.58	.52	.63	.57	.52	.62	.56	.52	.60	.55	.51	.49
7.0	.60	.53	.47	.60	.52	.47	.58	.52	.47	.57	.51	.47	.55	.50	.46	.44
8.0	.56	.48	.43	.55	.48	.43	.54	.47	.43	.52	.47	.42	.51	.46	.42	.40
9.0	.51	.44	.39	.51	.44	.39	.50	.43	.39	.49	.43	.39	.48	.42	.38	.37
10.0	.48	.40	.36	.47	.40	.36	.46	.40	.35	.45	.39	.35	.44	.39	.35	.34



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 20 May 2024

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:

WEC AND CCEC

NAME: SKYLON工矿灯 CCT 200W 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	.233	.133	.042	.226	.129	.041	.213	.122	.039	.201	.116	.037	.190	.110	.035		
2.0	.227	.124	.038	.221	.122	.037	.209	.116	.036	.199	.112	.035	.189	.107	.034		
3.0	.216	.115	.034	.211	.113	.034	.201	.109	.033	.192	.105	.032	.183	.102	.031		
4.0	.205	.106	.031	.200	.105	.031	.191	.102	.030	.183	.098	.030	.176	.096	.029		
5.0	.194	.099	.029	.189	.097	.028	.182	.095	.028	.175	.092	.027	.168	.090	.027		
6.0	.183	.092	.026	.179	.091	.026	.172	.088	.026	.166	.086	.025	.160	.084	.025		
7.0	.173	.086	.024	.170	.085	.024	.164	.083	.024	.158	.081	.024	.152	.079	.023		
8.0	.164	.080	.023	.161	.079	.022	.155	.078	.022	.150	.076	.022	.145	.075	.022		
9.0	.155	.075	.021	.153	.074	.021	.148	.073	.021	.143	.072	.021	.139	.070	.020		
10.0	.148	.071	.020	.145	.070	.020	.141	.069	.019	.137	.068	.019	.132	.067	.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	.194	.194	.194	.165	.165	.165	.113	.113	.113	.065	.065	.065	.021	.021	.021	
1.0	.178	.160	.144	.152	.137	.124	.104	.094	.085	.060	.055	.050	.019	.018	.016	
2.0	.167	.135	.109	.143	.116	.094	.098	.081	.066	.056	.047	.039	.018	.015	.013	
3.0	.157	.117	.085	.135	.101	.074	.093	.070	.052	.053	.041	.030	.017	.013	.010	
4.0	.149	.103	.068	.128	.089	.059	.088	.062	.042	.051	.036	.025	.016	.012	.008	
5.0	.142	.092	.056	.122	.080	.049	.084	.056	.034	.049	.033	.020	.016	.011	.007	
6.0	.135	.084	.047	.116	.072	.041	.080	.051	.029	.046	.030	.017	.015	.010	.006	
7.0	.129	.077	.040	.111	.066	.035	.077	.047	.025	.044	.027	.015	.014	.009	.005	
8.0	.123	.071	.035	.106	.061	.030	.073	.043	.021	.043	.025	.013	.014	.008	.004	
9.0	.118	.066	.031	.101	.057	.027	.070	.040	.019	.041	.024	.011	.013	.008	.004	
10.0	.113	.061	.027	.097	.053	.024	.067	.038	.017	.039	.022	.010	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:20 May 2024

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:

UGR(Unified Glare Rating) Table

NAME: SKYLON工矿灯 CCT 200W 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	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	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	0.2	0.2	0.2	0.2	0.2
Room dimensions						Viewed crosswise					Viewed endwise				
x = 2H y = 2H						21.8	23.1	22.1	23.3	23.5	20.6	21.9	20.9	22.1	22.3
3H						22.0	23.1	22.2	23.3	23.6	20.7	21.9	21.0	22.1	22.3
4H						22.0	23.1	22.3	23.3	23.6	20.6	21.7	21.0	22.0	22.2
6H						21.9	23.0	22.3	23.2	23.5	20.6	21.6	20.9	21.8	22.1
8H						21.9	22.9	22.2	23.2	23.4	20.5	21.5	20.8	21.8	22.1
12H						21.9	22.8	22.2	23.1	23.4	20.5	21.4	20.8	21.7	22.0
4H 2H						21.7	22.8	22.0	23.1	23.3	20.7	21.8	21.0	22.0	22.3
3H						22.0	22.9	22.3	23.2	23.5	20.8	21.8	21.2	22.0	22.3
4H						22.0	22.9	22.4	23.2	23.5	20.8	21.6	21.2	22.0	22.3
6H						22.0	22.8	22.4	23.1	23.5	20.7	21.5	21.1	21.8	22.2
8H						22.0	22.7	22.4	23.1	23.4	20.7	21.4	21.1	21.7	22.1
12H						22.0	22.6	22.4	23.0	23.4	20.6	21.3	21.0	21.6	22.0
8H 4H						21.9	22.6	22.4	23.0	23.4	20.7	21.4	21.1	21.8	22.2
6H						22.0	22.5	22.4	22.9	23.4	20.7	21.2	21.1	21.6	22.1
8H						21.9	22.4	22.4	22.9	23.3	20.6	21.1	21.1	21.5	22.0
12H						21.9	22.3	22.4	22.8	23.3	20.6	21.0	21.1	21.5	21.9
12H 4H						21.9	22.5	22.3	22.9	23.3	20.7	21.3	21.1	21.7	22.1
6H						21.9	22.4	22.4	22.8	23.3	20.6	21.1	21.1	21.6	22.0
8H						21.9	22.3	22.4	22.8	23.3	20.6	21.0	21.1	21.5	21.9
Variations with the observer position at spacings:															
S = 1.0H						+ 1.4 / - 2.2					+ 1.5 / - 2.6				
1.5H						+ 1.9 / - 1.9					+ 1.8 / - 1.7				
2.0H						+ 3.4 / - 2.7					+ 2.6 / - 2.4				

CIE Pub.117 Corrected 30419 lm Total Lamp Luminous Flux.(8log(F/F0) = 11.9)

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:20 May 2024

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:

UTILIZATION FACTORS TABLE

NAME: SKYLON工矿灯 CCT 200W 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

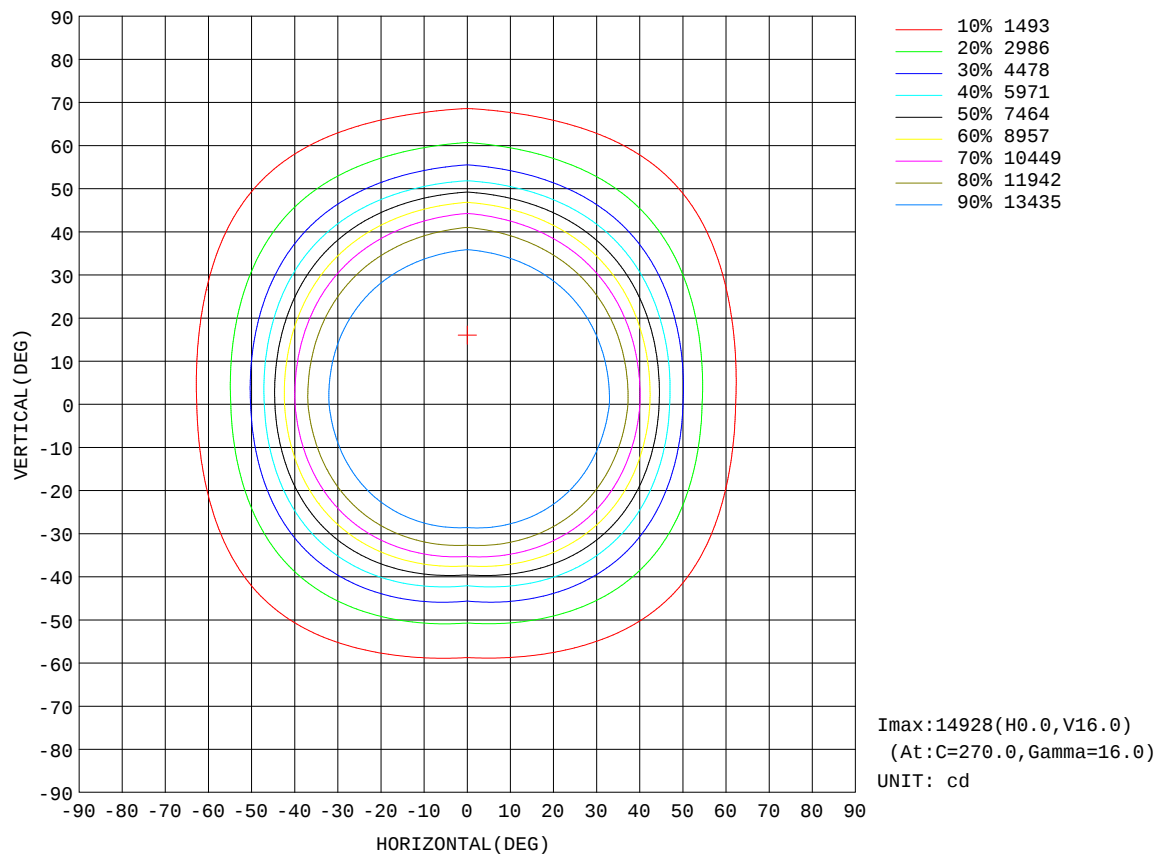
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	70	60	55	69	60	54	68	60	54	49
0.80	79	70	65	79	70	64	77	69	64	58
1.00	87	79	73	86	78	73	84	79	72	66
1.25	93	85	80	92	85	80	89	83	79	73
1.50	97	90	85	96	89	84	93	87	83	77
2.00	102	96	91	101	95	91	97	93	89	83
2.50	105	99	95	103	98	94	100	95	92	85
3.00	107	102	98	105	101	97	102	98	95	88
4.00	110	106	103	108	104	101	104	101	99	91
5.00	112	108	105	110	106	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: 20 May 2024

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:

ISOCANDELA DIAGRAM

NAME: SKYLON工矿灯 CCT 200W 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

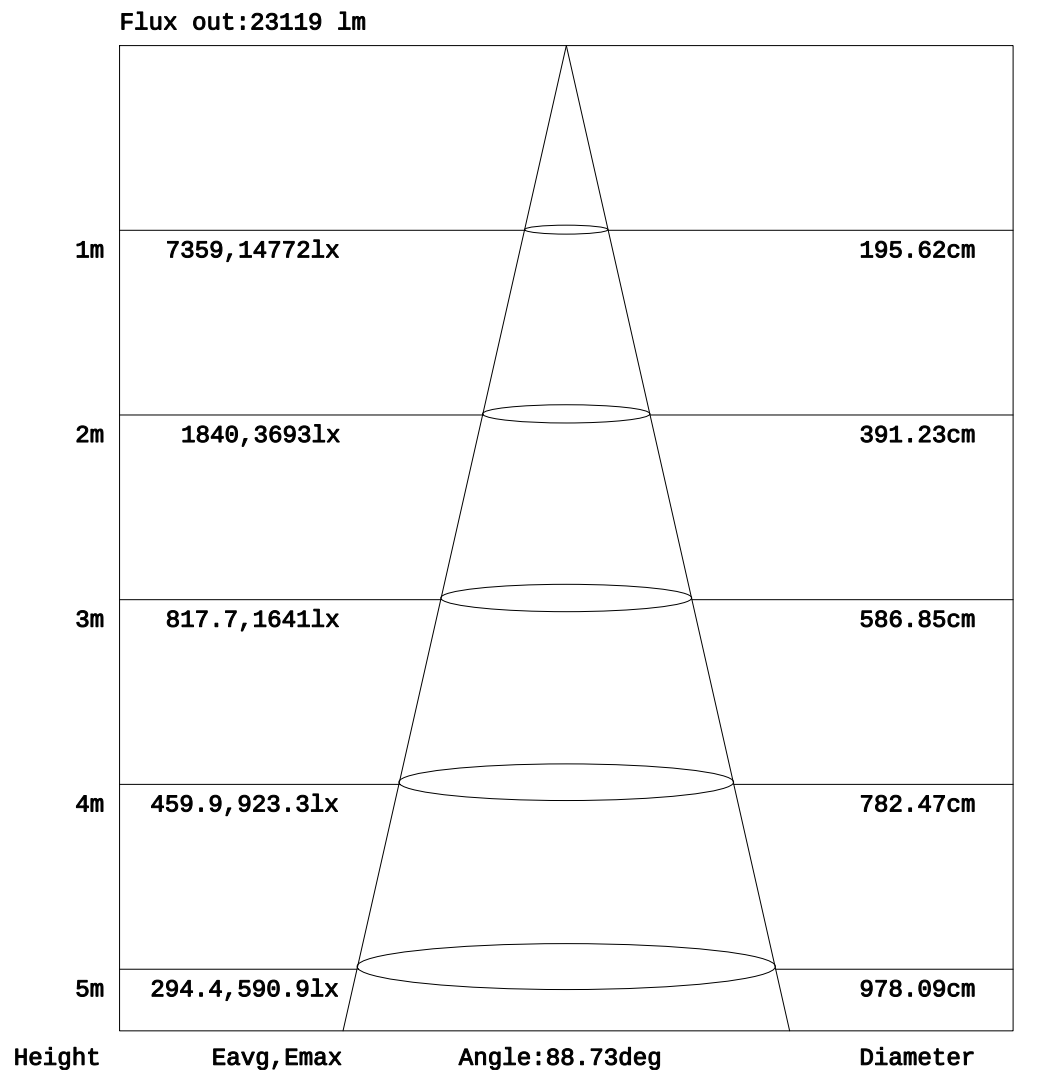


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:20 May 2024

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:

AAI Figure

NAME: SKYLON工矿灯 CCT 200W 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



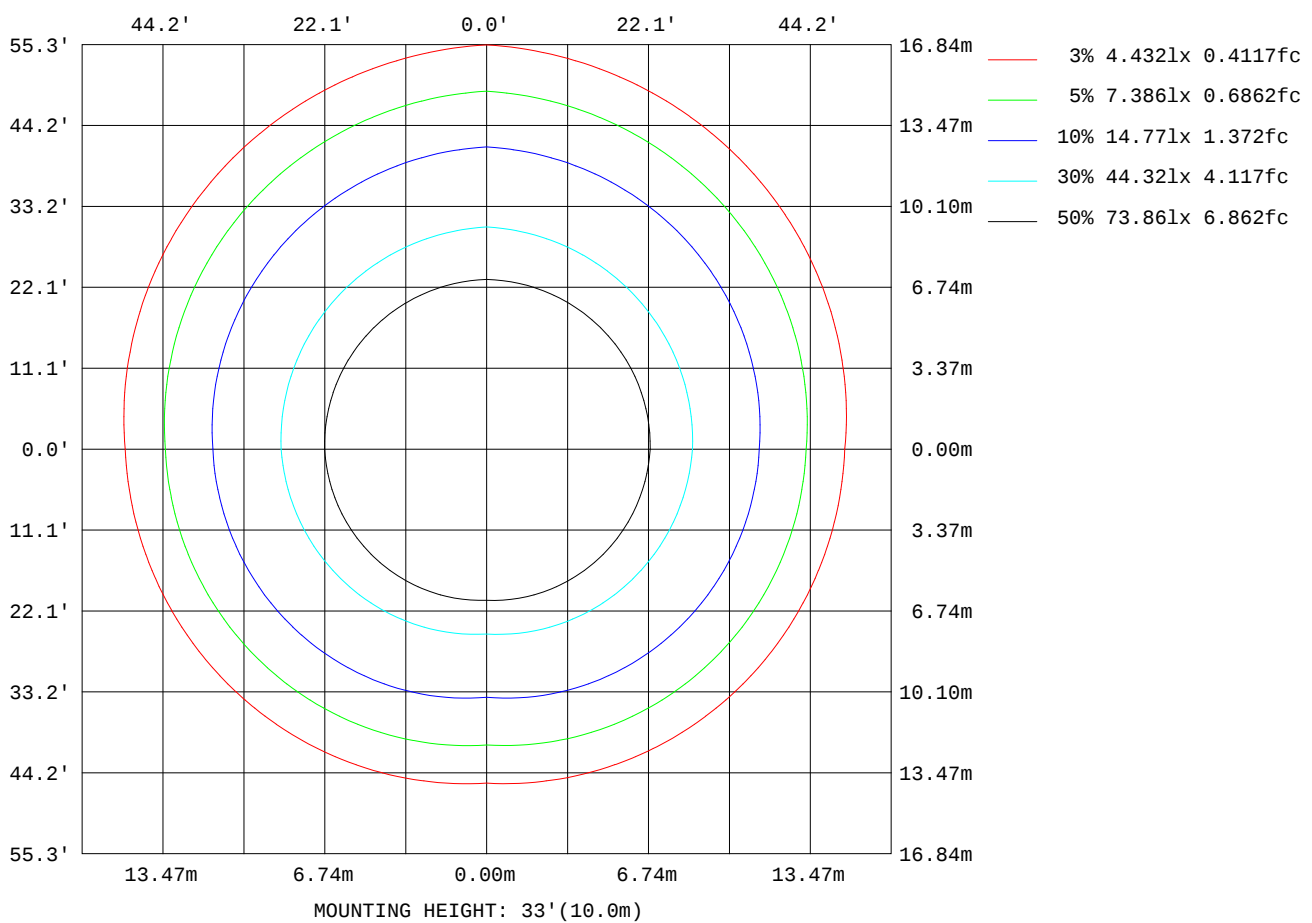
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 20 May 2024

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:

ISOLUX DIAGRAM

NAME: SKYLON工矿灯 CCT 200W 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: 20 May 2024

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:

LED Avg.L Report

NAME: SKYLON工矿灯 CCT 200W 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

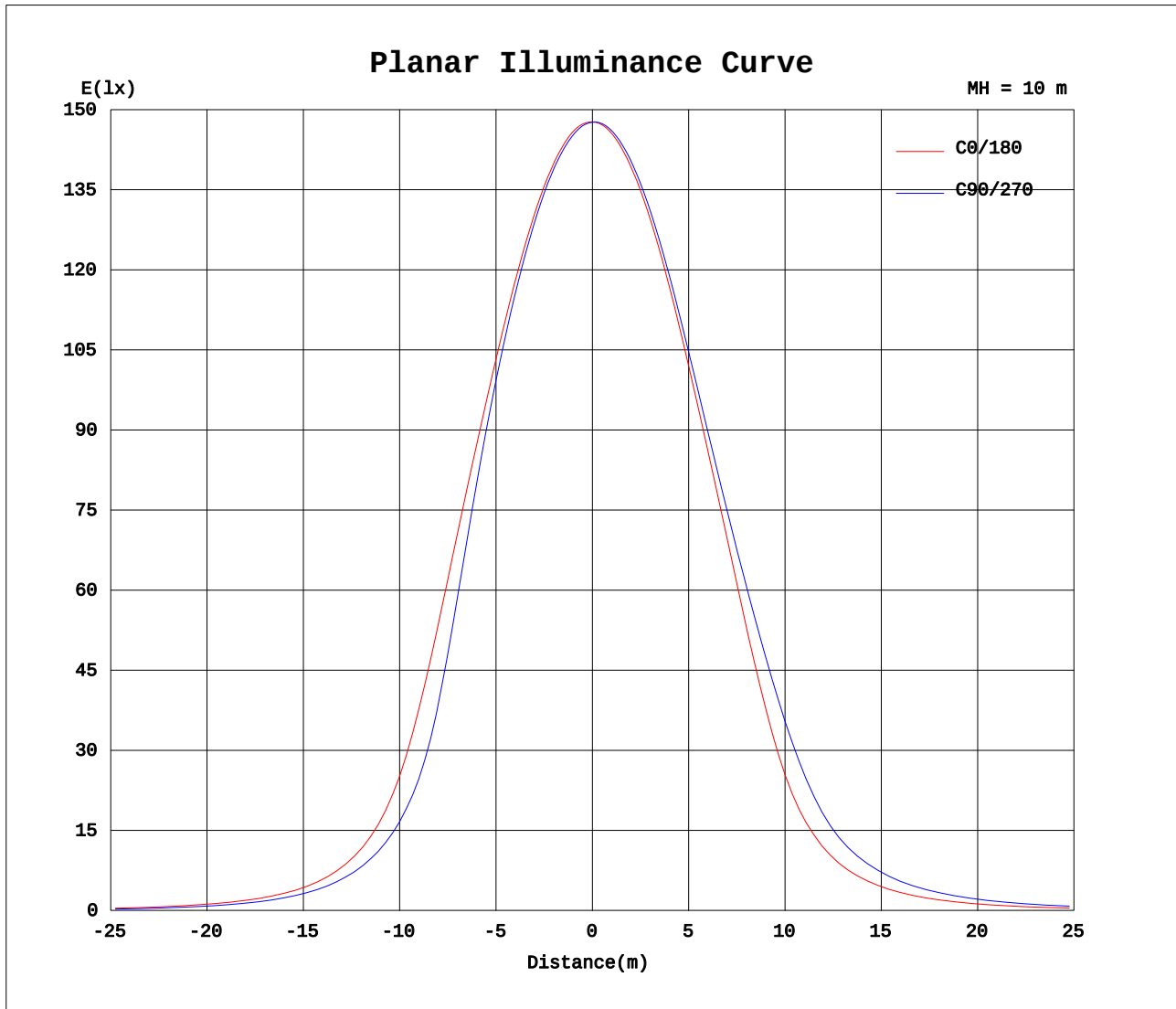
AvgL	cd/m2
L_0~180(65)av	9641
L_0~180(75)av	5334
L_0~180(85)av	1081
L_90~270(65)av	11794
L_90~270(75)av	6383
L_90~270(85)av	3951
L_45(65)av	10999
L_45(75)av	5992
L_45(85)av	2889

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 20 May 2024

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: 20 May 2024

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: SKYLON工矿灯 CCT 200W 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: ×10cd

C(DEG) γ (DEG)	0	90	180	270															
0	1477	1477	1477	1477															
5	1481	1475	1478	1482															
10	1484	1474	1478	1488															
15	1486	1471	1477	1492															
20	1480	1455	1467	1490															
25	1456	1411	1439	1472															
30	1401	1304	1381	1432															
35	1284	1066	1266	1361															
40	1047	716	1041	1232															
45	711	471	719	1002															
50	448	317	457	696															
55	284	209	294	465															
60	182	133	190	314															
65	116	80.6	121	208															
70	70.9	43.9	73.1	130															
75	39.8	18.4	40.3	77.4															
80	18.0	1.72	18.5	42.1															
85	2.16	0.18	3.30	19.8															
90	0.22	0.23	0.29	3.95															
95	0.28	0.31	0.36	0.25															
100	0.37	0.44	0.48	0.32															
105	0.49	0.62	0.66	0.43															
110	0.69	0.89	0.93	0.60															
115	0.97	1.25	1.31	0.86															
120	1.35	1.67	1.76	1.21															
125	1.81	2.13	2.26	1.65															
130	2.28	2.59	2.76	2.14															
135	2.72	2.97	3.21	2.62															
140	3.11	3.34	3.58	3.06															
145	3.44	3.66	3.88	3.45															
150	3.74	3.96	4.13	3.76															
155	4.09	4.32	4.41	4.04															
160	4.52	4.68	4.74	4.37															
165	4.93	5.01	5.08	4.79															
170	5.22	5.22	5.31	5.13															
175	5.44	5.39	5.47	5.35															
180	5.58	5.50	5.58	5.50															

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 20 May 2024

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: