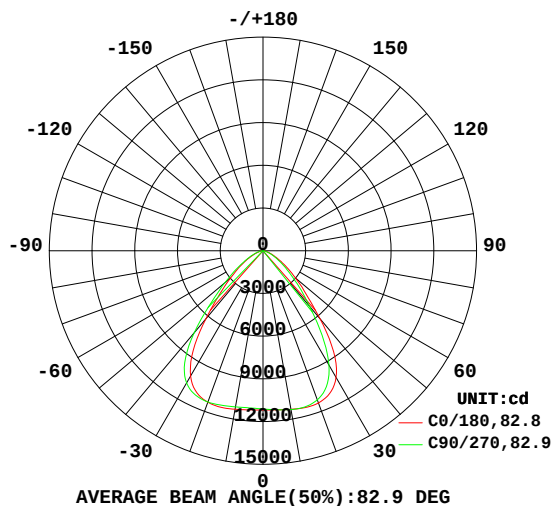


LUMINAIRE PHOTOMETRIC TEST REPORT

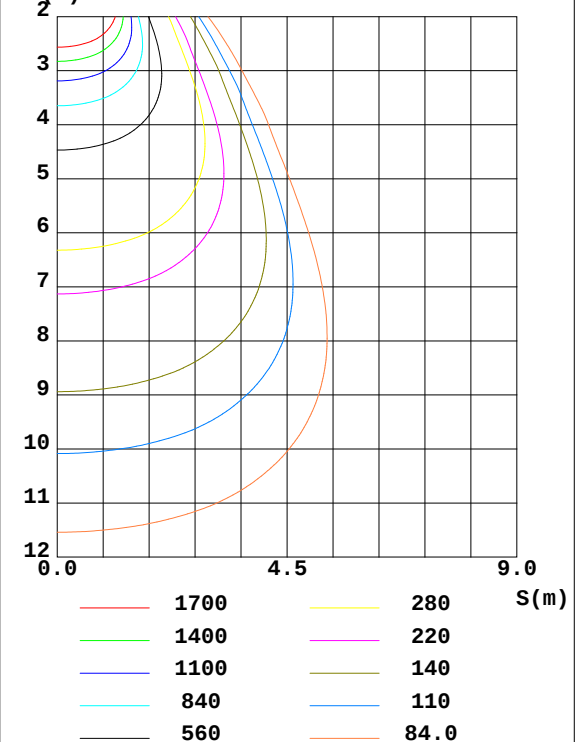
NAME: SKYLON工矿灯 圆形 150W 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Americanlite	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 141.43 lm/W			
MODEL		Imax(cd)	11419	S/MH(C0/180)	1.19
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	21099	η UP, DN(C0-180)	0.2, 47.4
NOMINAL FLUX(lm)	21099.2	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.2, 52.2
LAMPS INSIDE	1	η up(%)	0.4	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230	η down(%)	99.6	CIBSE SHR MAX	1.25

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: 17 April 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:

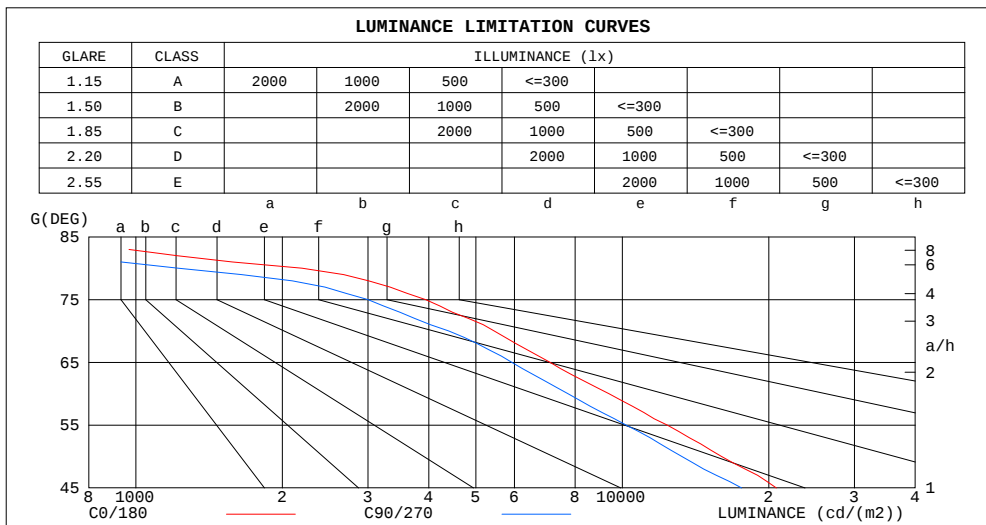
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	1131	1132	1130	1114					0- 10	1070	1070	5.07, 5.07
20	1138	1115	1132	1131					10- 20	3210	4280	20.3, 20.3
30	1027	926.6	1018	1073					20- 30	5012	9293	44, 44
40	623.1	511.9	625.6	753.3					30- 40	5222	14515	68.8, 68.8
50	297.9	247.0	297.0	351.4					40- 50	3397	17912	84.9, 84.9
60	136.1	112.1	138.3	155.4					50- 60	1854	19766	93.7, 93.7
70	54.04	43.59	55.05	64.19					60- 70	888.4	20655	97.9, 97.9
80	11.05	6.150	13.02	18.57					70- 80	327.5	20982	99.4, 99.4
90	0.1292	0.1237	0.1687	0.2401					80- 90	35.05	21017	99.6, 99.6
100	0.2296	0.2322	0.2918	0.2426					90-100	2.033	21019	99.6, 99.6
110	0.4348	0.4613	0.5684	0.4677					100-110	3.722	21023	99.6, 99.6
120	0.8231	0.9073	1.092	0.8842					110-120	6.763	21030	99.7, 99.7
130	1.450	1.580	1.808	1.517					120-130	11.11	21041	99.7, 99.7
140	2.129	2.244	2.492	2.190					130-140	14.89	21056	99.8, 99.8
150	2.671	2.761	2.970	2.735					140-150	15.88	21072	99.9, 99.9
160	3.176	3.307	3.396	3.192					150-160	13.89	21085	99.9, 99.9
170	3.802	3.835	3.928	3.738					160-170	10.02	21095	100, 100
180	4.185	4.095	4.204	4.080					170-180	3.777	21099	100, 100
DEG	LUMINOUS INTENSITY: $\times 10\text{cd}$									UNIT: lm		

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 17 April 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 圆形 150W 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Americanlite	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	324	150
80	2195	1221
75	3937	2997
70	5449	4395
65	7101	5925
60	9384	7732
55	12361	10177
50	15982	13251
45	20722	17584

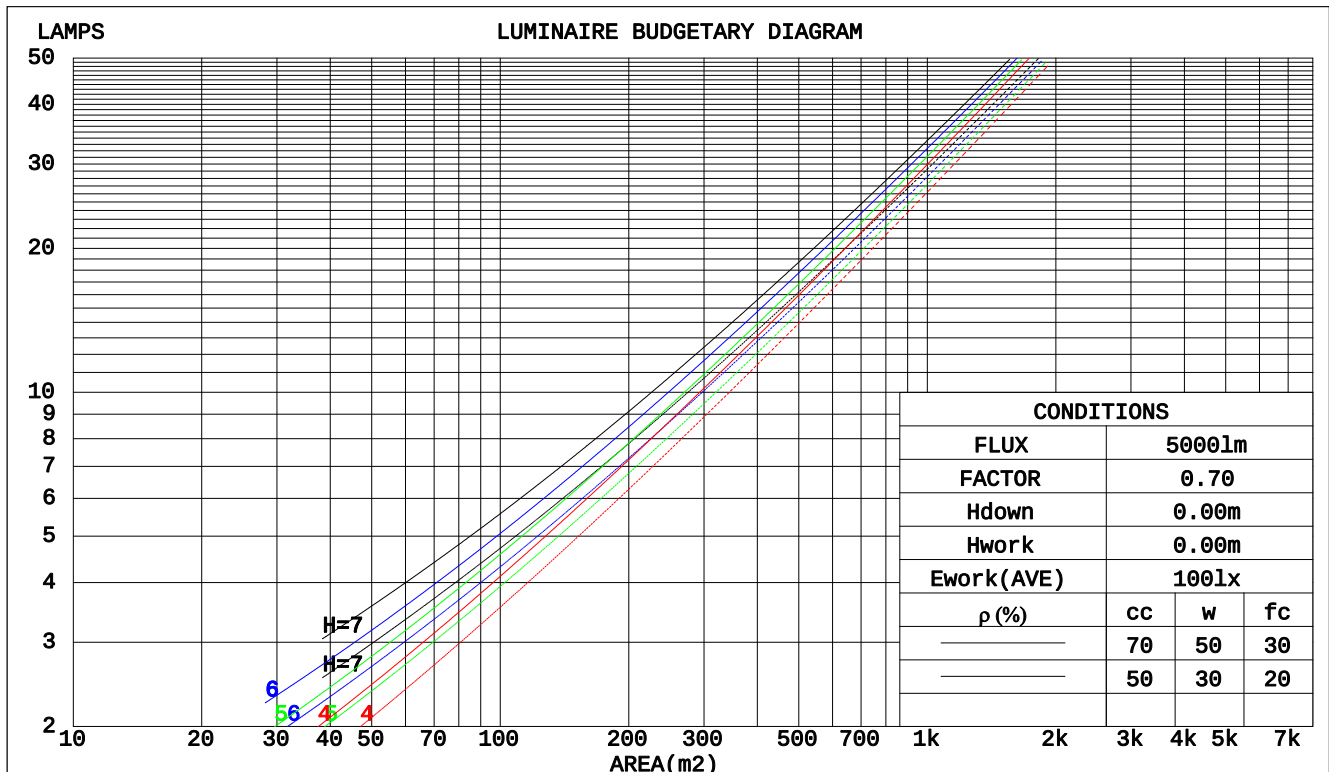
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 17 April 2024

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 圆形 150W 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Americanlite	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						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	1.02	1.02	1.02	.00
1.0	1.08	1.05	1.02	1.06	1.03	1.00	1.02	.99	.97	.98	.96	.94	.94	.93	.91	.89
2.0	.98	.92	.88	.96	.91	.87	.92	.88	.85	.89	.86	.83	.86	.84	.81	.79
3.0	.88	.82	.77	.87	.81	.76	.84	.79	.75	.81	.77	.74	.79	.75	.72	.71
4.0	.80	.73	.68	.79	.73	.67	.77	.71	.67	.75	.70	.66	.73	.68	.65	.63
5.0	.73	.66	.60	.72	.65	.60	.70	.64	.60	.68	.63	.59	.67	.62	.58	.57
6.0	.67	.60	.54	.66	.59	.54	.65	.58	.54	.63	.57	.53	.62	.57	.53	.51
7.0	.62	.54	.49	.61	.54	.49	.60	.53	.49	.58	.53	.48	.57	.52	.48	.46
8.0	.57	.50	.45	.56	.49	.44	.55	.49	.44	.54	.48	.44	.53	.48	.44	.42
9.0	.53	.46	.41	.52	.45	.41	.51	.45	.41	.50	.44	.40	.49	.44	.40	.39
10.0	.49	.42	.37	.49	.42	.37	.48	.42	.37	.47	.41	.37	.46	.41	.37	.35



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 17 April 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 圆形 150W 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Americanlite	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	.227	.129	.041	.221	.126	.040	.207	.119	.038	.195	.113	.036	.184	.107	.034		
2.0	.221	.121	.037	.215	.119	.037	.204	.113	.035	.194	.109	.034	.184	.104	.033		
3.0	.211	.112	.034	.206	.110	.033	.196	.106	.032	.187	.102	.031	.178	.099	.031		
4.0	.200	.104	.031	.195	.102	.030	.187	.099	.030	.179	.096	.029	.171	.093	.028		
5.0	.189	.096	.028	.185	.095	.028	.177	.092	.027	.170	.090	.027	.163	.087	.026		
6.0	.179	.090	.026	.175	.088	.025	.168	.086	.025	.162	.084	.025	.156	.082	.024		
7.0	.169	.084	.024	.166	.083	.024	.160	.081	.023	.154	.079	.023	.149	.077	.023		
8.0	.160	.078	.022	.157	.078	.022	.152	.076	.022	.147	.074	.021	.142	.073	.021		
9.0	.152	.074	.021	.150	.073	.020	.145	.072	.020	.140	.070	.020	.136	.069	.020		
10.0	.145	.069	.019	.142	.069	.019	.138	.068	.019	.134	.066	.019	.130	.065	.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	.193	.193	.193	.165	.165	.165	.113	.113	.113	.065	.065	.065	.021	.021	.021	
1.0	.178	.160	.144	.152	.137	.124	.104	.094	.086	.060	.055	.050	.019	.018	.016	
2.0	.166	.135	.110	.142	.116	.095	.097	.081	.066	.056	.047	.039	.018	.015	.013	
3.0	.156	.117	.086	.134	.101	.074	.092	.070	.052	.053	.041	.031	.017	.013	.010	
4.0	.148	.103	.069	.127	.089	.060	.087	.062	.042	.050	.036	.025	.016	.012	.008	
5.0	.140	.092	.056	.120	.080	.049	.083	.056	.035	.048	.033	.021	.015	.011	.007	
6.0	.133	.083	.047	.115	.072	.041	.079	.050	.029	.046	.030	.017	.015	.010	.006	
7.0	.127	.076	.040	.109	.066	.035	.076	.046	.025	.044	.027	.015	.014	.009	.005	
8.0	.122	.070	.035	.105	.061	.031	.072	.043	.022	.042	.025	.013	.014	.008	.004	
9.0	.116	.065	.031	.100	.057	.027	.069	.040	.019	.040	.024	.011	.013	.008	.004	
10.0	.111	.061	.028	.096	.053	.024	.067	.037	.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: 17 April 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 圆形 150W 4000K						TYPE:					WEIGHT:				
SPEC.:						DIM.:					SERIAL No.:				
MFR.: Americanlite						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						20.4	21.7	20.7	21.8	22.0	19.7	21.0	20.0	21.2	21.3
3H						20.7	21.8	21.0	22.0	22.3	19.9	21.1	20.2	21.3	21.5
4H						20.7	21.8	21.0	22.0	22.3	20.0	21.0	20.3	21.3	21.5
6H						20.7	21.7	21.0	21.9	22.2	19.9	20.9	20.2	21.2	21.4
8H						20.6	21.6	21.0	21.9	22.2	19.9	20.8	20.2	21.1	21.4
12H						20.6	21.5	20.9	21.8	22.1	19.8	20.7	20.1	21.0	21.3
4H 2H						20.4	21.5	20.7	21.8	22.0	19.8	20.9	20.1	21.1	21.4
3H						20.8	21.7	21.1	22.0	22.3	20.1	21.1	20.5	21.4	21.6
4H						20.9	21.7	21.3	22.0	22.4	20.2	21.0	20.6	21.3	21.7
6H						20.9	21.6	21.3	22.0	22.3	20.2	20.9	20.6	21.2	21.6
8H						20.9	21.5	21.3	21.9	22.3	20.1	20.8	20.5	21.2	21.5
12H						20.8	21.4	21.2	21.8	22.2	20.1	20.7	20.5	21.1	21.5
8H 4H						20.8	21.5	21.2	21.9	22.3	20.2	20.8	20.6	21.2	21.6
6H						20.8	21.4	21.3	21.8	22.2	20.1	20.7	20.6	21.1	21.5
8H						20.8	21.3	21.3	21.7	22.2	20.1	20.6	20.6	21.0	21.5
12H						20.8	21.2	21.2	21.6	22.1	20.1	20.5	20.5	20.9	21.4
12H 4H						20.8	21.4	21.2	21.8	22.2	20.1	20.7	20.5	21.1	21.5
6H						20.8	21.3	21.3	21.7	22.2	20.1	20.6	20.6	21.0	21.5
8H						20.8	21.2	21.3	21.6	22.1	20.1	20.5	20.5	20.9	21.4
Variations with the observer position at spacings:															
S = 1.0H						+ 1.1 / - 1.6					+ 1.2 / - 1.8				
1.5H						+ 1.6 / - 1.2					+ 1.3 / - 1.1				
2.0H						+ 2.3 / - 2.2					+ 2.2 / - 1.9				

CIE Pub.117 Corrected 21099 lm Total Lamp Luminous Flux.(8log(F/F0) = 10.6)

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 17 April 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 圆形 150W 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Americanlite	SUR.:	Shielding Angle:

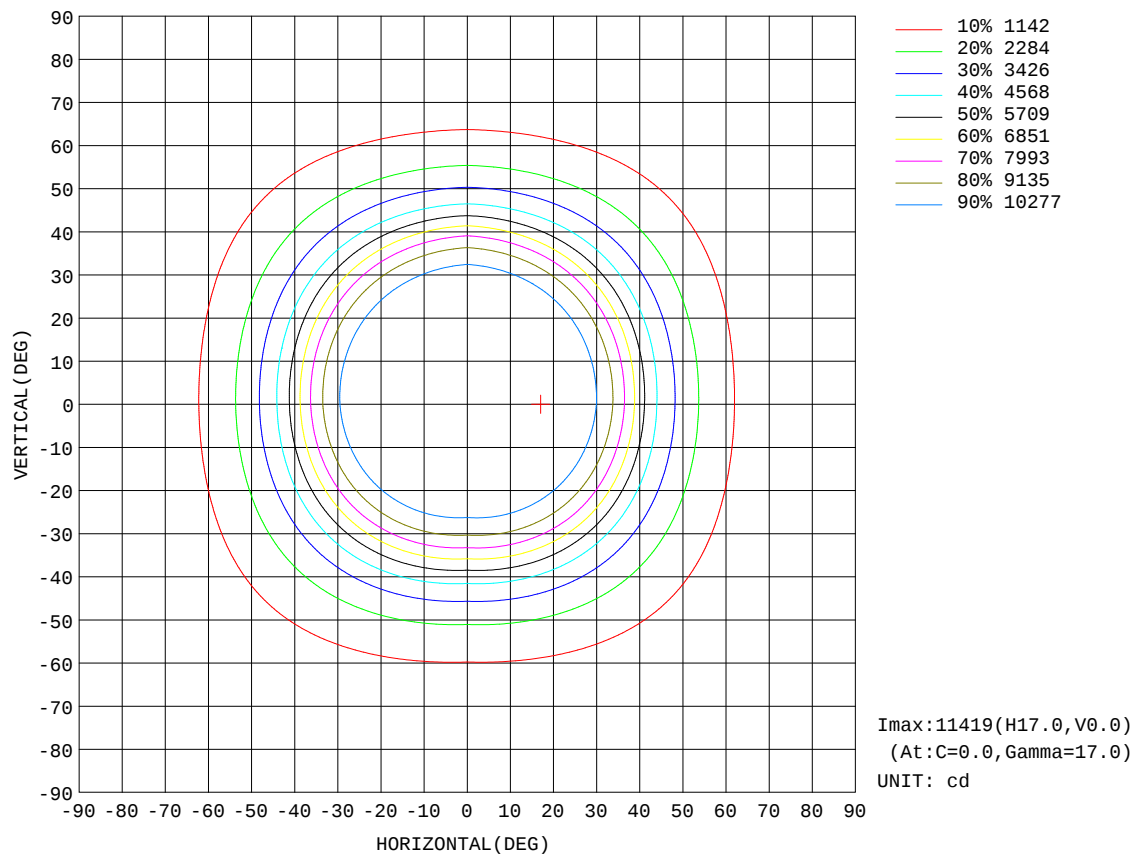
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	72	63	57	71	62	57	70	62	57	52
0.80	81	73	67	80	72	67	79	71	66	61
1.00	88	80	75	87	80	75	85	80	74	69
1.25	94	87	82	93	86	81	91	85	80	75
1.50	98	91	86	97	90	86	94	89	85	79
2.00	103	97	93	101	96	92	98	94	90	84
2.50	106	100	96	104	99	95	100	96	93	86
3.00	108	103	99	106	102	98	102	99	96	89
4.00	111	107	103	108	105	102	104	102	99	91
5.00	112	109	106	110	107	105	106	103	101	93
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:17 April 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 圆形 150W 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Americanlite	SUR.:	Shielding Angle:

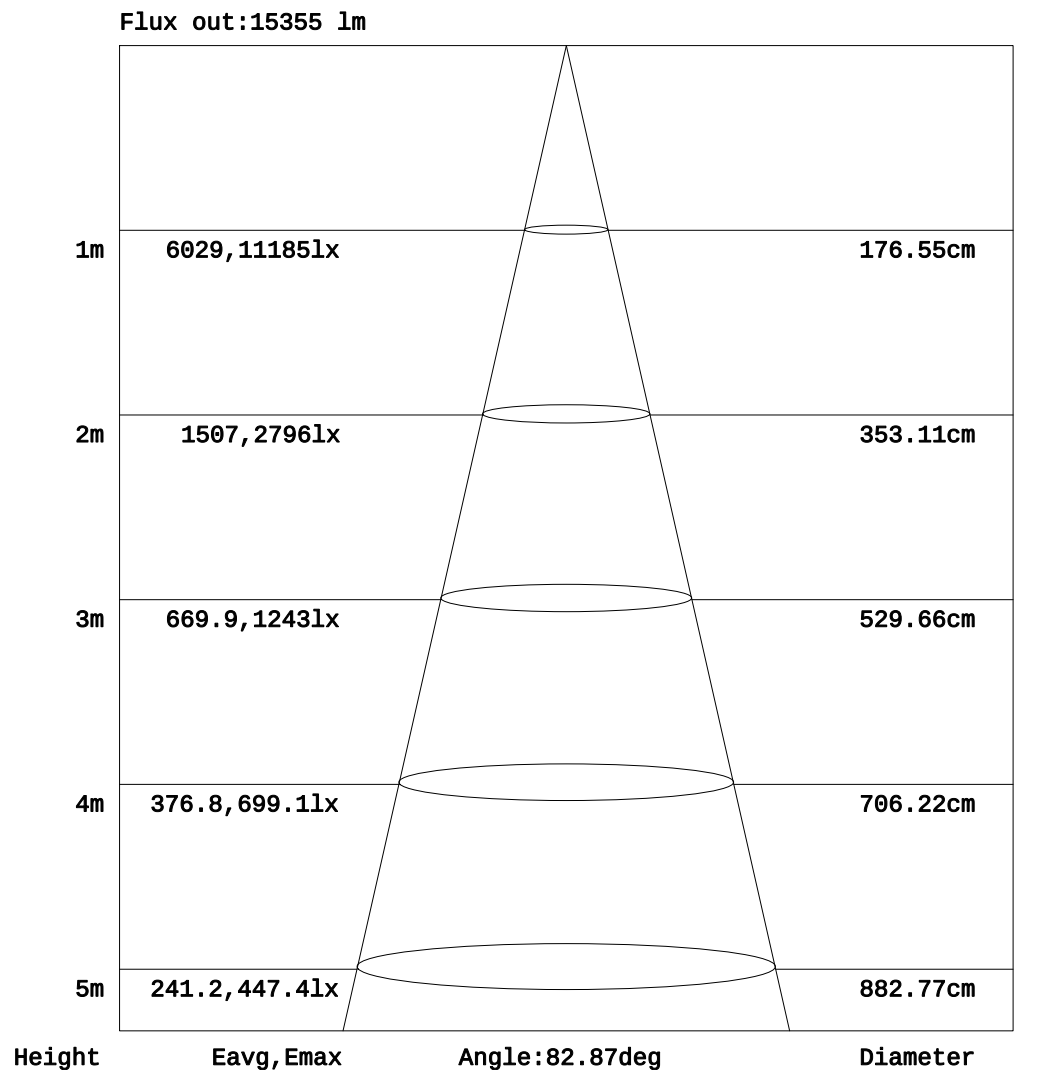


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:17 April 2024

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 圆形 150W 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Americanlite	SUR.:	Shielding Angle:



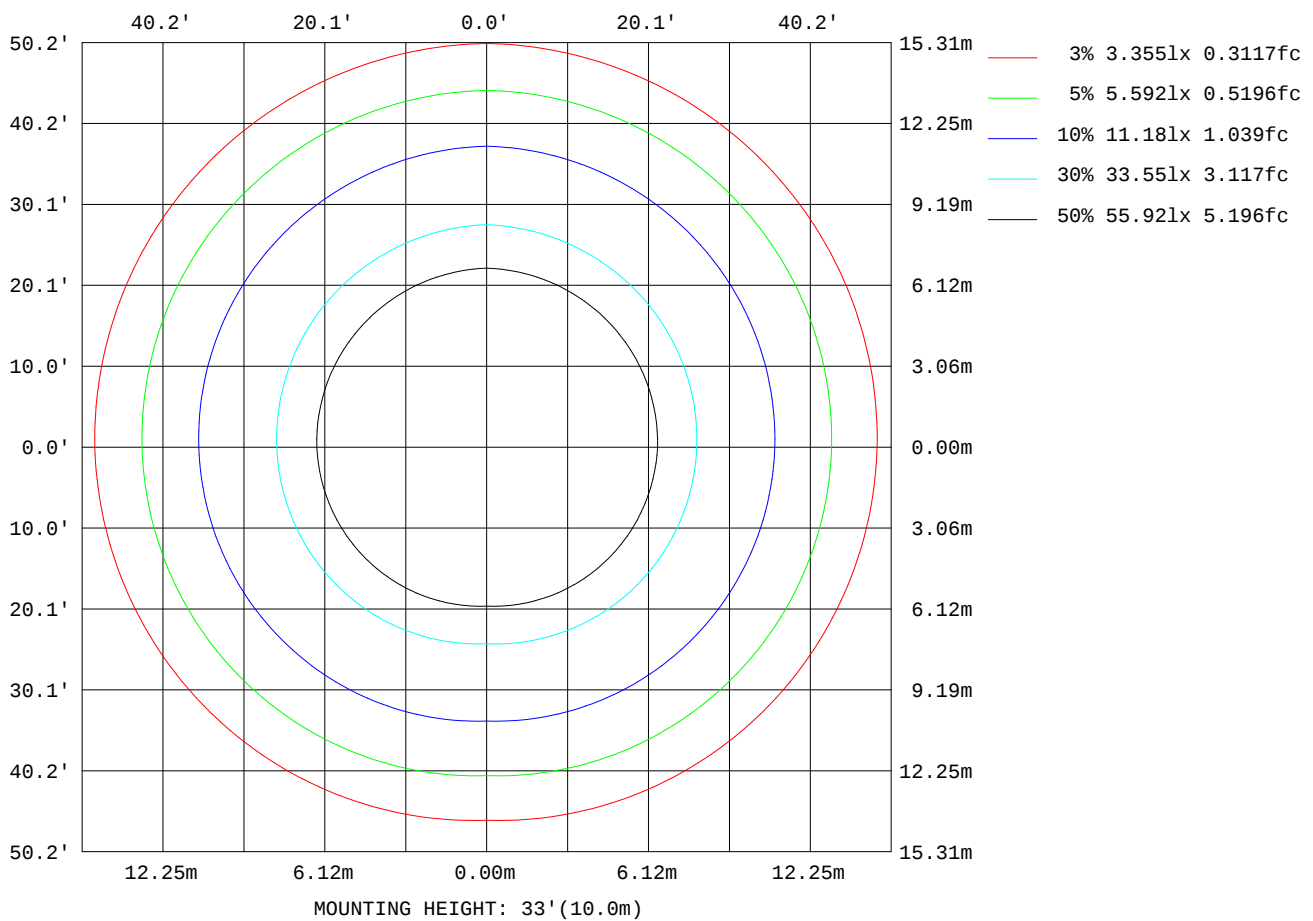
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:17 April 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 圆形 150W 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Americanlite	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:17 April 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 圆形 150W 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Americanlite	SUR.:	Shielding Angle:

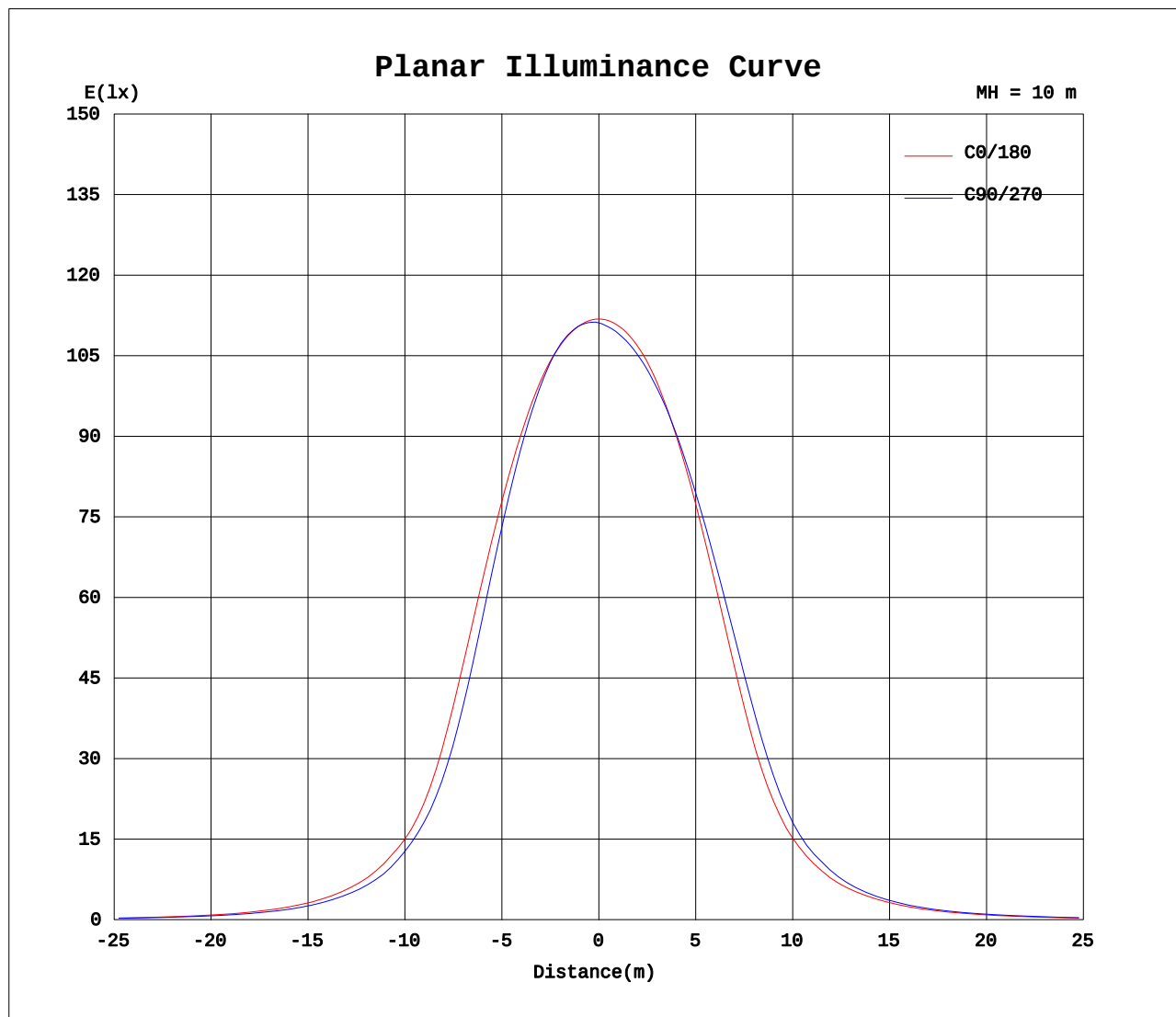
AvgL	cd/m2
L_0~180(65)av	7177
L_0~180(75)av	4007
L_0~180(85)av	457
L_90~270(65)av	7124
L_90~270(75)av	4007
L_90~270(85)av	822
L_45(65)av	7149
L_45(75)av	4012
L_45(85)av	693

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 17 April 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: 17 April 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 圆形 150W 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Americanlite	SUR.:	Shielding Angle:

Table--1

UNIT: ×10cd

C(°) γ (°)	0	90	180	270														
0	1118	1111	1118	1111														
5	1122	1121	1122	1108														
10	1131	1132	1130	1114														
15	1141	1135	1138	1123														
20	1138	1115	1132	1131														
25	1107	1053	1100	1119														
30	1027	927	1018	1073														
35	865	724	855	959														
40	623	512	626	753														
45	425	361	429	513														
50	298	247	297	351														
55	206	169	207	235														
60	136	112	138	155														
65	87.0	72.6	88.9	102														
70	54.0	43.6	55.0	64.2														
75	29.5	22.5	30.6	37.7														
80	11.1	6.15	13.0	18.6														
85	0.82	0.38	1.49	3.78														
90	0.13	0.12	0.17	0.24														
95	0.17	0.17	0.21	0.17														
100	0.23	0.23	0.29	0.24														
105	0.32	0.33	0.41	0.34														
110	0.43	0.46	0.57	0.47														
115	0.60	0.65	0.80	0.65														
120	0.82	0.91	1.09	0.88														
125	1.11	1.22	1.44	1.18														
130	1.45	1.58	1.81	1.52														
135	1.79	1.92	2.17	1.87														
140	2.13	2.24	2.49	2.19														
145	2.42	2.52	2.75	2.49														
150	2.67	2.76	2.97	2.73														
155	2.90	3.01	3.17	2.96														
160	3.18	3.31	3.40	3.19														
165	3.51	3.62	3.70	3.48														
170	3.80	3.84	3.93	3.74														
175	4.04	4.01	4.10	3.93														
180	4.19	4.09	4.20	4.08														

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 17 April 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: