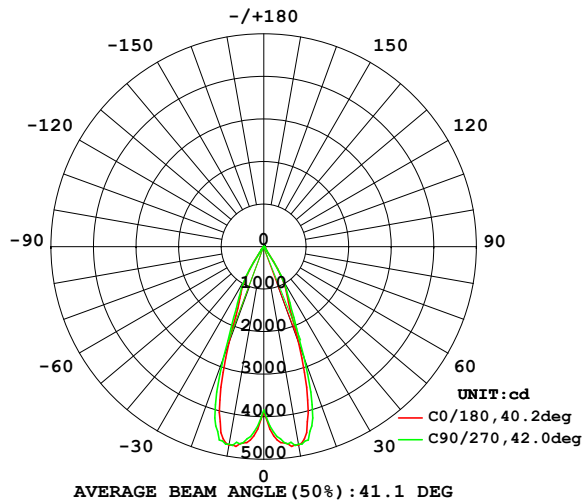


## LUMINAIRE PHOTOMETRIC TEST REPORT

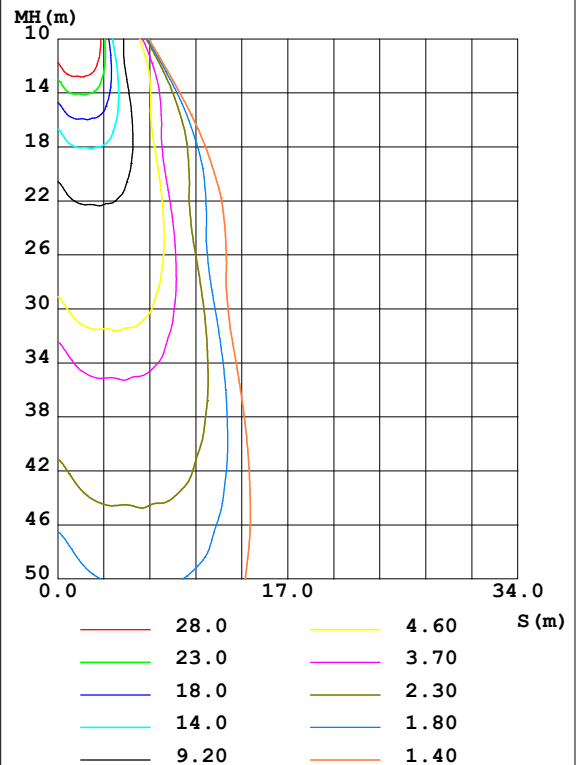
Test:U:120.3V I:0.2602A P:31.11W PF:0.9942 Lamp Flux:2444.84x1 lm		
NAME: 30ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/40°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 78.59 lm/W			
MODEL		I <sub>max</sub> (cd)	4742	S/MH (C0/180)	0.67
NOMINAL POWER (W)	30	LOR (%)	100.0	S/MH (C90/270)	0.69
RATED VOLTAGE (V)	120-277	TOTAL FLUX (lm)	2444.8	η UP, DN (C0-180)	0.0, 50.0
NOMINAL FLUX (lm)	2444.84	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.0
LAMPS INSIDE	1	η up (%)	0.1	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	120	η down (%)	99.9	CIBSE SHR MAX	0.60

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: Aaron  
Test Date: 2018-01-29

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.291  
Humidity: 65.0%  
Test Distance: 10.830m [K=1.0000]  
Remarks: 2700K, 40°lens  
1#反射器, ADR6CC 98046

### ZONAL FLUX DIAGRAM

#### ZONAL FLUX DIAGRAM:

$\gamma$	C0	C90	C180	C270					$\gamma$	$\Phi$ zone	$\Phi$ total	%lum
10	4741	4715	4741	4715					0- 10	440.4	440.4	18
20	2409	2748	2409	2748					10- 20	1104	1544	63.2
30	876.4	916.7	876.4	916.7					20- 30	676.4	2221	90.8
40	82.38	71.67	82.38	71.67					30- 40	190.8	2411	98.6
50	10.46	9.995	10.46	9.995					40- 50	22.76	2434	99.6
60	3.323	3.347	3.323	3.347					50- 60	5.385	2440	99.8
70	1.230	1.289	1.230	1.289					60- 70	2.089	2442	99.9
80	0.3493	0.3591	0.3493	0.3591					70- 80	0.8087	2443	99.9
90	0	0	0	0					80- 90	0.0899	2443	99.9
100	0	0	0	0					90-100	0	2443	99.9
110	0	0	0	0					100-110	0	2443	99.9
120	0	0	0	0					110-120	0	2443	99.9
130	0.2196	0.1894	0.2196	0.1894					120-130	0.0475	2443	99.9
140	0.6958	0.6604	0.6958	0.6604					130-140	0.3296	2443	99.9
150	1.246	1.216	1.246	1.216					140-150	0.5949	2444	99.9
160	1.576	1.588	1.576	1.588					150-160	0.6639	2444	100
170	1.649	1.655	1.649	1.655					160-170	0.4598	2445	100
180	1.722	1.674	1.722	1.674					170-180	0.1587	2445	100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

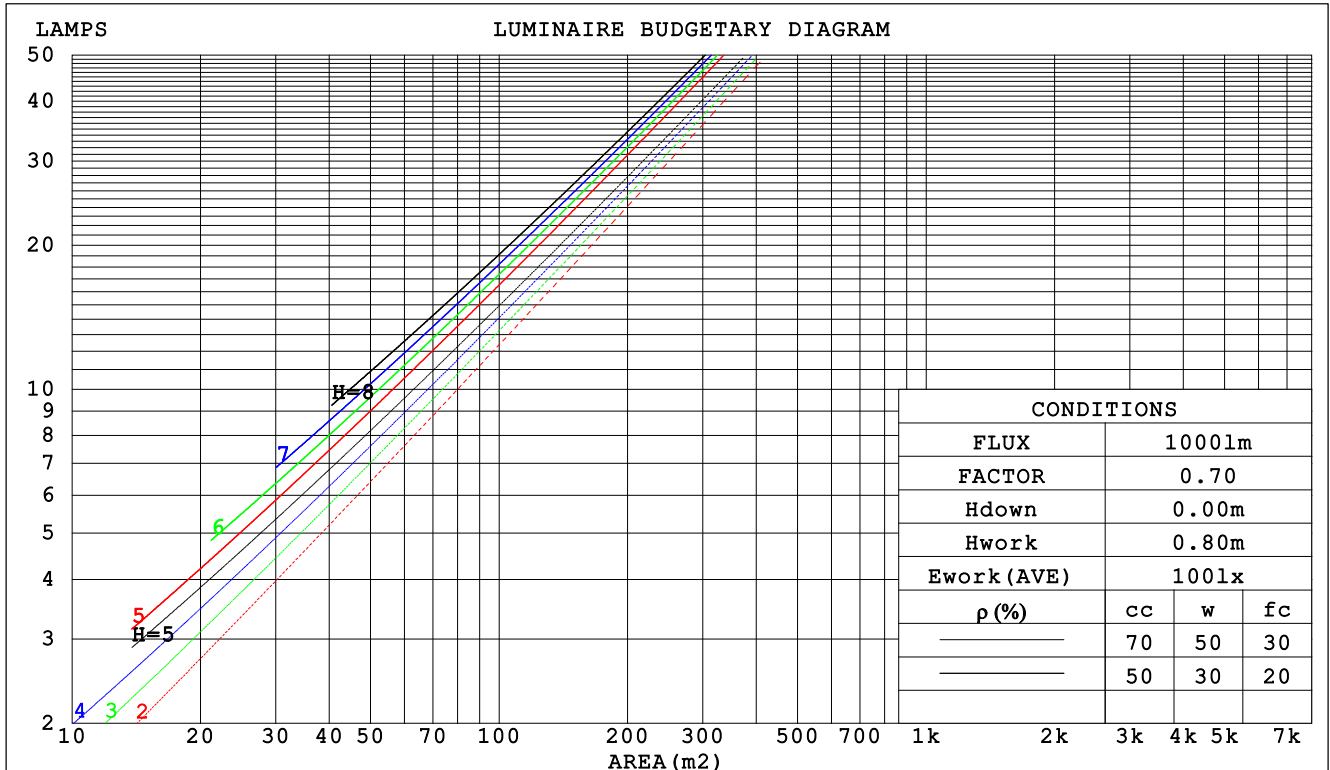
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2018-01-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:10.830m [K=1.0000]  
Remarks: 2700K, 40°lens  
1#反射器, ADR6CC 98046

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.3V I:0.2602A P:31.11W PF:0.9942 Lamp Flux:2444.84x1 lm		
NAME: 30ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/40°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	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	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.04	1.03	1.02	1.01	.00	.99	.98	.97	.95
2.0	1.06	1.02	.00	1.04	1.01	.98	1.01	.98	.96	.98	.96	.94	.95	.94	.92	.91
3.0	1.00	.96	.93	.99	.95	.92	.96	.93	.91	.94	.91	.89	.92	.90	.88	.86
4.0	.95	.91	.87	.94	.90	.87	.92	.89	.86	.90	.87	.85	.88	.86	.84	.82
5.0	.91	.86	.82	.90	.85	.82	.88	.84	.81	.87	.83	.81	.85	.82	.80	.79
6.0	.87	.82	.78	.86	.81	.78	.84	.80	.77	.83	.80	.77	.82	.79	.76	.75
7.0	.83	.78	.74	.82	.78	.74	.81	.77	.74	.80	.76	.73	.79	.76	.73	.72
8.0	.79	.74	.71	.79	.74	.71	.78	.74	.71	.77	.73	.70	.76	.73	.70	.69
9.0	.76	.71	.68	.76	.71	.68	.75	.71	.68	.74	.70	.67	.73	.70	.67	.66
10.0	.73	.68	.65	.73	.68	.65	.72	.68	.65	.71	.67	.65	.70	.67	.64	.63



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2018-01-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:10.830m [K=1.0000]  
Remarks: 2700K, 40°lens  
1#反射器, ADR6CC 98046

## WEC AND CCEC

Test:U:120.3V I:0.2602A P:31.11W PF:0.9942 Lamp Flux:2444.84x1 lm		
NAME: 30ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/40°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

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	.153	.087	.028	.147	.084	.027	.134	.077	.025	.123	.071	.023	.112	.065	.021		
2.0	.144	.079	.024	.139	.076	.024	.128	.071	.022	.119	.067	.021	.110	.062	.020		
3.0	.136	.072	.022	.131	.070	.021	.123	.066	.020	.114	.063	.019	.107	.059	.018		
4.0	.129	.067	.020	.125	.065	.019	.117	.062	.019	.110	.059	.018	.104	.056	.017		
5.0	.122	.062	.018	.119	.061	.018	.112	.059	.017	.106	.056	.017	.101	.054	.016		
6.0	.117	.058	.017	.114	.057	.017	.108	.055	.016	.103	.053	.016	.098	.052	.015		
7.0	.111	.055	.016	.109	.054	.015	.104	.053	.015	.099	.051	.015	.095	.049	.014		
8.0	.107	.052	.015	.104	.051	.015	.100	.050	.014	.096	.049	.014	.092	.047	.014		
9.0	.102	.050	.014	.100	.049	.014	.097	.048	.014	.093	.047	.013	.089	.045	.013		
10.0	.099	.047	.013	.097	.047	.013	.093	.046	.013	.090	.045	.013	.087	.044	.013		

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	.191	.191	.191	.163	.163	.163	.112	.112	.112	.064	.064	.064	.020	.020	.020	
1.0	.170	.158	.147	.146	.136	.127	.100	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.153	.133	.117	.131	.115	.101	.090	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.139	.114	.094	.119	.098	.081	.082	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.128	.099	.077	.110	.086	.067	.075	.060	.047	.044	.035	.028	.014	.011	.009	
5.0	.118	.087	.064	.102	.075	.056	.070	.053	.039	.041	.031	.023	.013	.010	.008	
6.0	.110	.077	.054	.095	.067	.047	.065	.047	.033	.038	.028	.020	.012	.009	.007	
7.0	.103	.069	.046	.089	.060	.040	.061	.042	.028	.036	.025	.017	.012	.008	.006	
8.0	.097	.063	.039	.084	.055	.034	.058	.038	.024	.034	.023	.015	.011	.007	.005	
9.0	.092	.058	.034	.079	.050	.030	.055	.035	.021	.032	.021	.013	.010	.007	.004	
10.0	.087	.053	.030	.075	.046	.026	.052	.032	.019	.030	.019	.011	.010	.006	.004	

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2018-01-29

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:10.830m [K=1.0000]  
Remarks: 2700K, 40°lens  
1#反射器, ADR6CC 98046

## UGR(Unified Glare Rating) Table

Test:U:120.3V I:0.2602A P:31.11W PF:0.9942 Lamp Flux:2444.84x1 lm										
NAME: 30ADL/40°lens 120-277V					TYPE:LED			WEIGHT:		
SPEC.:30ADL/40°lens 120-277V					DIM.:			SERIAL No.:01		
MFR.: GREEN CREATIVE					SUR.:			PROTECTION 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	0.9	1.7	1.2	1.9	2.0	1.2	2.0	1.5	2.2	2.3
3H	0.8	1.5	1.0	1.7	1.9	1.1	1.8	1.3	2.0	2.2
4H	0.7	1.4	1.0	1.6	1.8	1.0	1.7	1.3	1.9	2.1
6H	0.6	1.3	0.9	1.5	1.7	0.9	1.6	1.2	1.8	2.0
8H	0.6	1.2	0.9	1.4	1.7	0.9	1.5	1.2	1.7	2.0
12H	0.5	1.1	0.9	1.4	1.7	0.8	1.4	1.1	1.7	2.0
4H 2H	0.7	1.4	1.0	1.6	1.8	1.0	1.7	1.3	1.9	2.1
3H	0.5	1.1	0.9	1.4	1.7	0.8	1.4	1.2	1.7	2.0
4H	0.5	1.0	0.8	1.3	1.6	0.7	1.3	1.1	1.6	1.9
6H	0.4	0.8	0.7	1.2	1.5	0.7	1.1	1.0	1.5	1.8
8H	0.3	0.7	0.7	1.1	1.5	0.6	1.0	1.0	1.4	1.8
12H	0.2	0.7	0.7	1.0	1.4	0.5	0.9	1.0	1.3	1.7
8H 4H	0.3	0.7	0.7	1.1	1.5	0.6	1.0	1.0	1.4	1.8
6H	0.2	0.6	0.6	1.0	1.4	0.5	0.9	0.9	1.2	1.7
8H	0.1	0.5	0.6	0.9	1.3	0.4	0.8	0.9	1.2	1.6
12H	0.1	0.4	0.5	0.8	1.3	0.4	0.6	0.8	1.1	1.6
12H 4H	0.2	0.6	0.7	1.0	1.4	0.5	0.9	1.0	1.3	1.7
6H	0.1	0.5	0.6	0.9	1.3	0.4	0.8	0.9	1.2	1.6
8H	0.1	0.4	0.5	0.8	1.3	0.4	0.6	0.8	1.1	1.6
Variations with the observer position at spacings:										
S = 1.0H	+ 3.4 / -10.0					+ 3.5 / - 9.7				
1.5H	+ 5.7 / - 8.4					+ 5.8 / - 8.1				
2.0H	+ 6.2 / - 4.5					+ 5.8 / - 4.3				

CIE Pub.117 Corrected 2445 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.1)

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2018-01-29

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:10.830m [K=1.0000]  
Remarks: 2700K, 40°lens  
1#反射器, ADR6CC 98046

### UTILIZATION FACTORS TABLE

Test:U:120.3V I:0.2602A P:31.11W PF:0.9942 Lamp Flux:2444.84x1 lm		
NAME: 30ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/40°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION 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) $k(RI) \times RCR = 5$									
$k = 0.60$	91	85	82	90	85	81	90	84	81	78
0.80	98	92	89	97	92	89	96	92	89	85
1.00	102	96	93	101	96	93	99	96	92	89
1.25	105	100	97	104	100	97	102	99	96	92
1.50	108	103	100	106	103	100	104	101	99	95
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	107	104	107	104	102	97
3.00	113	109	107	111	108	106	107	105	104	97
4.00	114	112	110	112	110	109	109	107	106	99
5.00	116	114	112	114	112	110	110	108	107	100
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNM = 1.25		

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2018-01-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:10.830m [K=1.0000]  
Remarks: 2700K, 40°lens  
1#反射器, ADR6CC 98046

## ISOCANDELA DIAGRAM

Test:U:120.3V I:0.2602A P:31.11W PF:0.9942 Lamp Flux:2444.84x1 lm		
NAME: 30ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/40°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

2427.7 lm

%lum = 99.3%

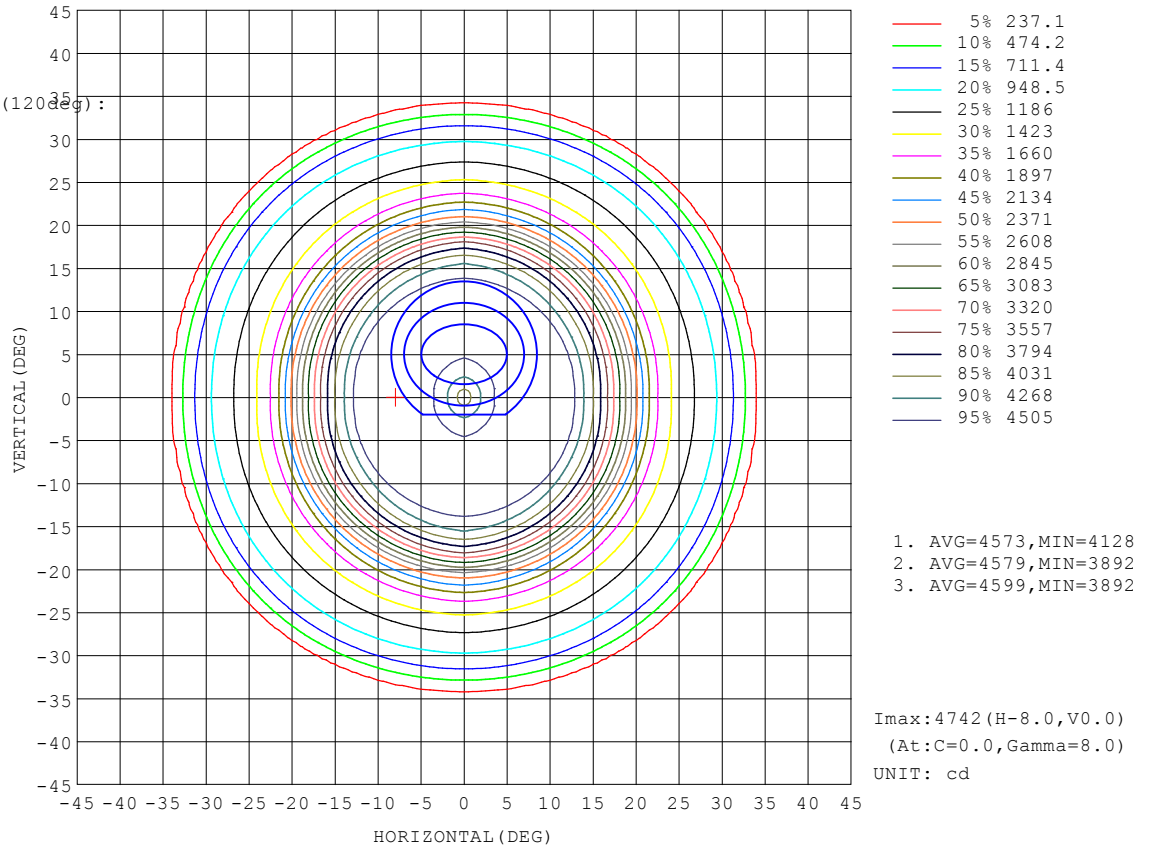
%lamp = 99.3%

Conical surface Flux(120deg):

2439.6 lm

%lum = 99.8%

%lamp = 99.8%

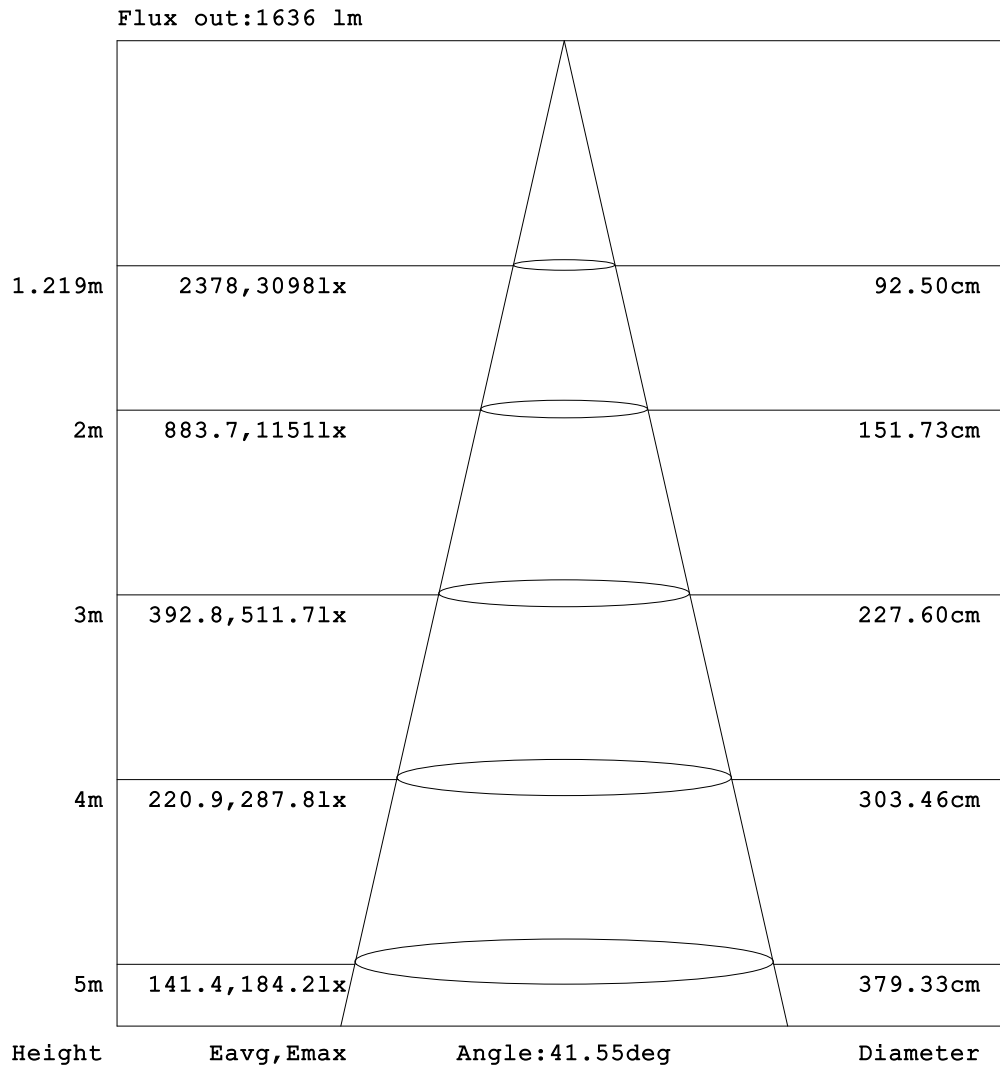


C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2018-01-29

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:10.830m [K=1.0000]  
Remarks: 2700K, 40°lens  
1#反射器, ADR6CC 98046

### AAI Figure

Test:U:120.3V I:0.2602A P:31.11W PF:0.9942 Lamp Flux:2444.84x1 lm		
NAME: 30ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/40°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:



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

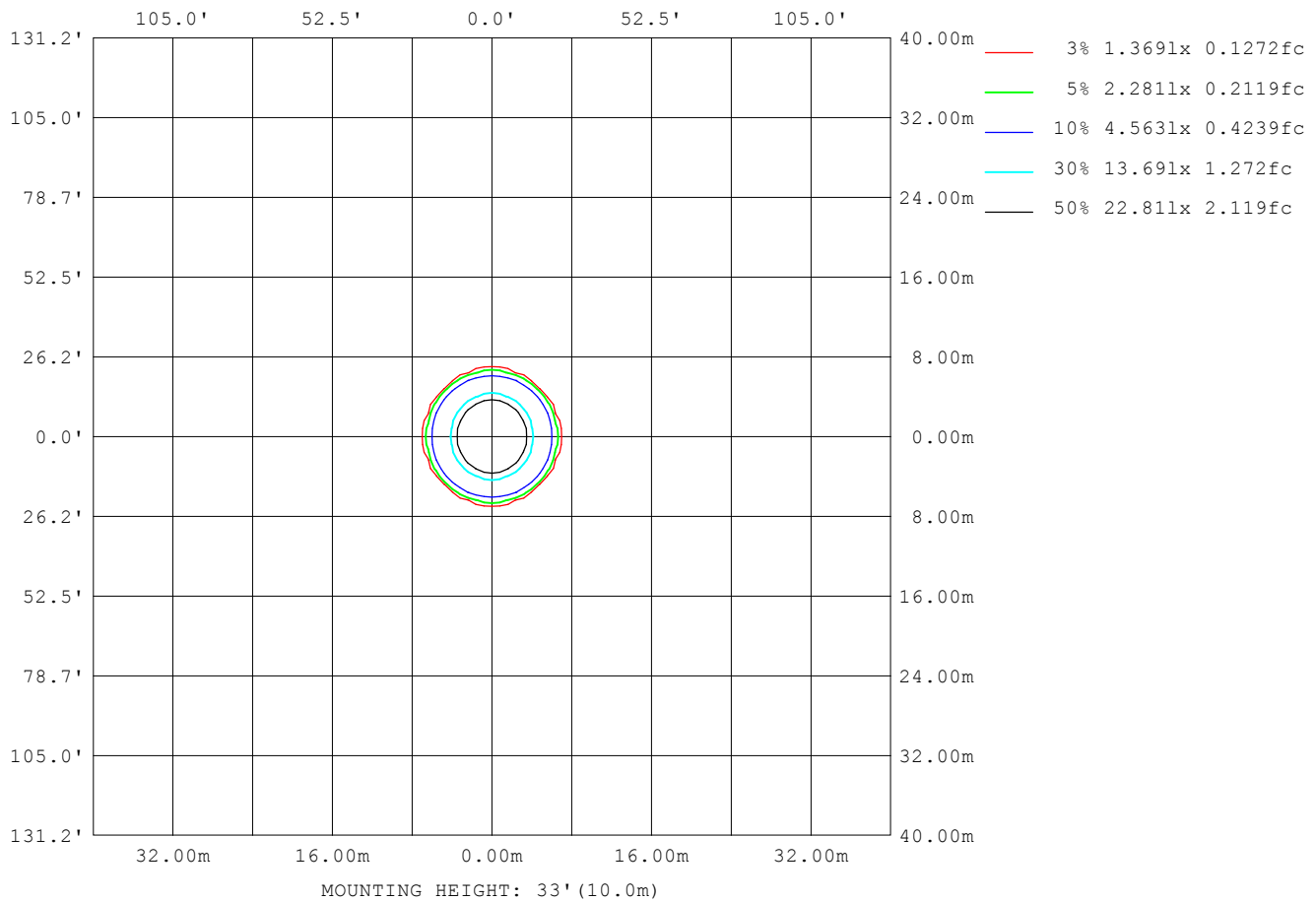
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2018-01-29

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:10.830m [K=1.0000]  
Remarks: 2700K, 40°lens  
1#反射器, ADR6CC 98046



## ISOLUX DIAGRAM

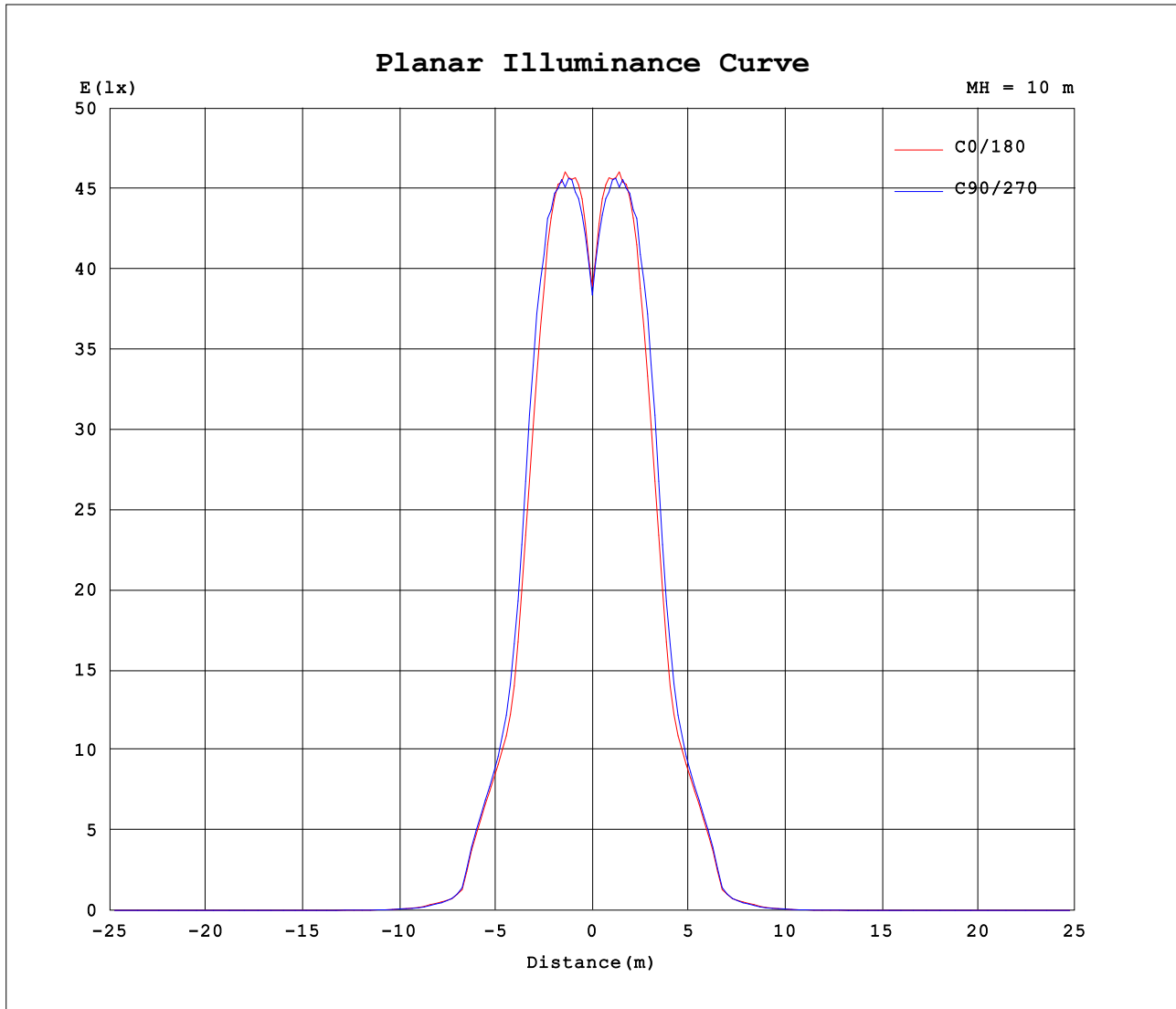
Test:U:120.3V I:0.2602A P:31.11W PF:0.9942 Lamp Flux:2444.84x1 lm		
NAME: 30ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/40°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2018-01-29

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:10.830m [K=1.0000]  
Remarks: 2700K, 40°lens  
1#反射器, ADR6CC 98046

## Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Aaron  
 Test Date: 2018-01-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.291  
 Humidity: 65.0%  
 Test Distance: 10.830m [K=1.0000]  
 Remarks: 2700K, 40° lens  
 1#反射器, ADR6CC 98046

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.3V I:0.2602A P:31.11W PF:0.9942 Lamp Flux:2444.84x1 lm		
NAME: 30ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/40°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	3892	3838	3892	3838															
5	4621	4531	4621	4531															
10	4741	4715	4741	4715															
15	4038	4363	4038	4363															
20	2409	2748	2409	2748															
25	1345	1462	1345	1462															
30	876	917	876	917															
35	183	189	183	189															
40	82.4	71.7	82.4	71.7															
45	28.1	26.1	28.1	26.1															
50	10.5	9.99	10.5	9.99															
55	5.75	5.70	5.75	5.70															
60	3.32	3.35	3.32	3.35															
65	1.99	2.06	1.99	2.06															
70	1.23	1.29	1.23	1.29															
75	0.73	0.76	0.73	0.76															
80	0.35	0.36	0.35	0.36															
85	0.00	0.00	0.00	0.00															
90	0.00	0.00	0.00	0.00															
95	0.00	0.00	0.00	0.00															
100	0.00	0.00	0.00	0.00															
105	0.00	0.00	0.00	0.00															
110	0.00	0.00	0.00	0.00															
115	0.00	0.00	0.00	0.00															
120	0.00	0.00	0.00	0.00															
125	0.02	0.01	0.02	0.01															
130	0.22	0.19	0.22	0.19															
135	0.45	0.42	0.45	0.42															
140	0.70	0.66	0.70	0.66															
145	0.98	0.93	0.98	0.93															
150	1.25	1.22	1.25	1.22															
155	1.48	1.45	1.48	1.45															
160	1.58	1.59	1.58	1.59															
165	1.63	1.64	1.63	1.64															
170	1.65	1.66	1.65	1.66															
175	1.67	1.67	1.67	1.67															
180	1.72	1.67	1.72	1.67															

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2018-01-29

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:10.830m [K=1.0000]  
Remarks: 2700K, 40°lens  
1#反射器, ADR6CC 98046