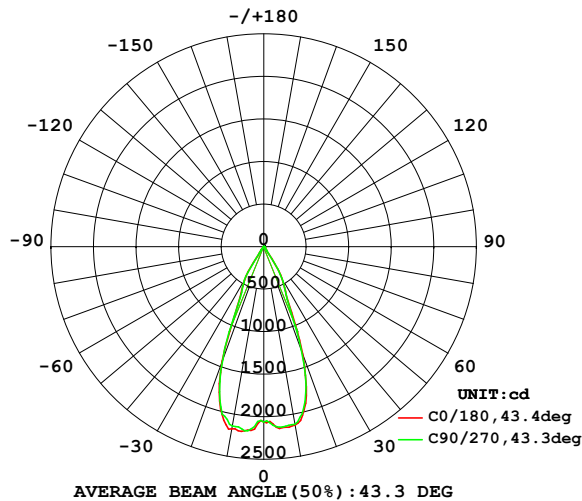


## LUMINAIRE PHOTOMETRIC TEST REPORT

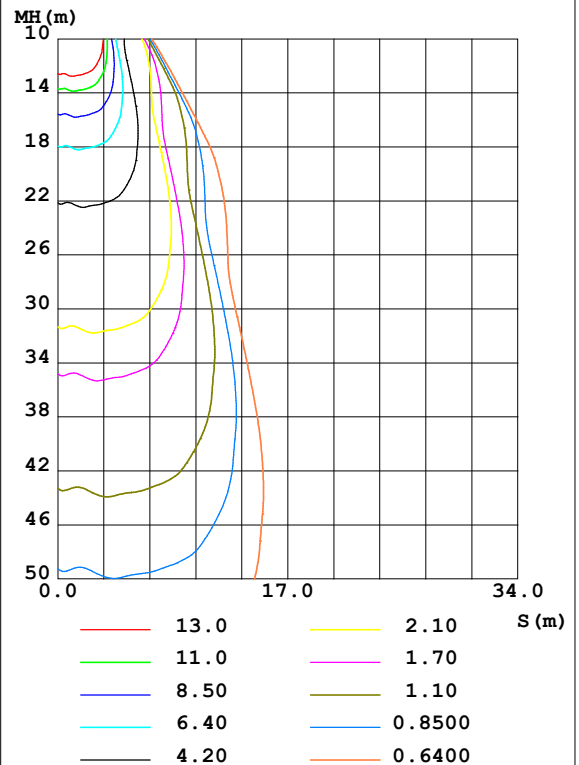
Test:U:120.3V I:0.1158A P:12.49W PF:0.8963 Lamp Flux:1175.5x1 lm		
NAME: 15ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/40°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 94.11 lm/W			
MODEL		I <sub>max</sub> (cd)	2188	S/MH (C0/180)	0.65
NOMINAL POWER (W)	15	LOR (%)	100.0	S/MH (C90/270)	0.65
RATED VOLTAGE (V)	120-277	TOTAL FLUX (lm)	1175.5	η UP, DN (C0-180)	0.0, 48.8
NOMINAL FLUX (lm)	1175.5	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 51.1
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	2127	2121	2173	2140					0- 10	204.2	204.2	17.4
20	1334	1291	1429	1413					10- 20	518.1	722.3	61.4
30	434.3	426.8	457.5	460.1					20- 30	335.8	1058	90
40	43.64	42.92	40.04	41.07					30- 40	101.0	1159	98.6
50	5.149	5.425	4.620	5.168					40- 50	11.84	1171	99.6
60	1.577	1.651	1.347	1.636					50- 60	2.617	1174	99.8
70	0.5107	0.5230	0.3953	0.5494					60- 70	0.9225	1174	99.9
80	0.0574	0.0191	0	0.0643					70- 80	0.2533	1175	99.9
90	0	0	0	0					80- 90	0.0026	1175	99.9
100	0	0	0	0					90-100	0	1175	99.9
110	0	0	0	0					100-110	0	1175	99.9
120	0	0	0	0					110-120	0	1175	99.9
130	0	0	0	0					120-130	0	1175	99.9
140	0.1977	0.2175	0.2108	0.1781					130-140	0.0574	1175	99.9
150	0.4658	0.4917	0.4533	0.4210					140-150	0.2053	1175	100
160	0.6191	0.6637	0.6193	0.6063					150-160	0.2574	1175	100
170	0.6382	0.6574	0.6446	0.6255					160-170	0.1805	1175	100
180	0.6829	0.6893	0.6893	0.6829					170-180	0.0620	1176	100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

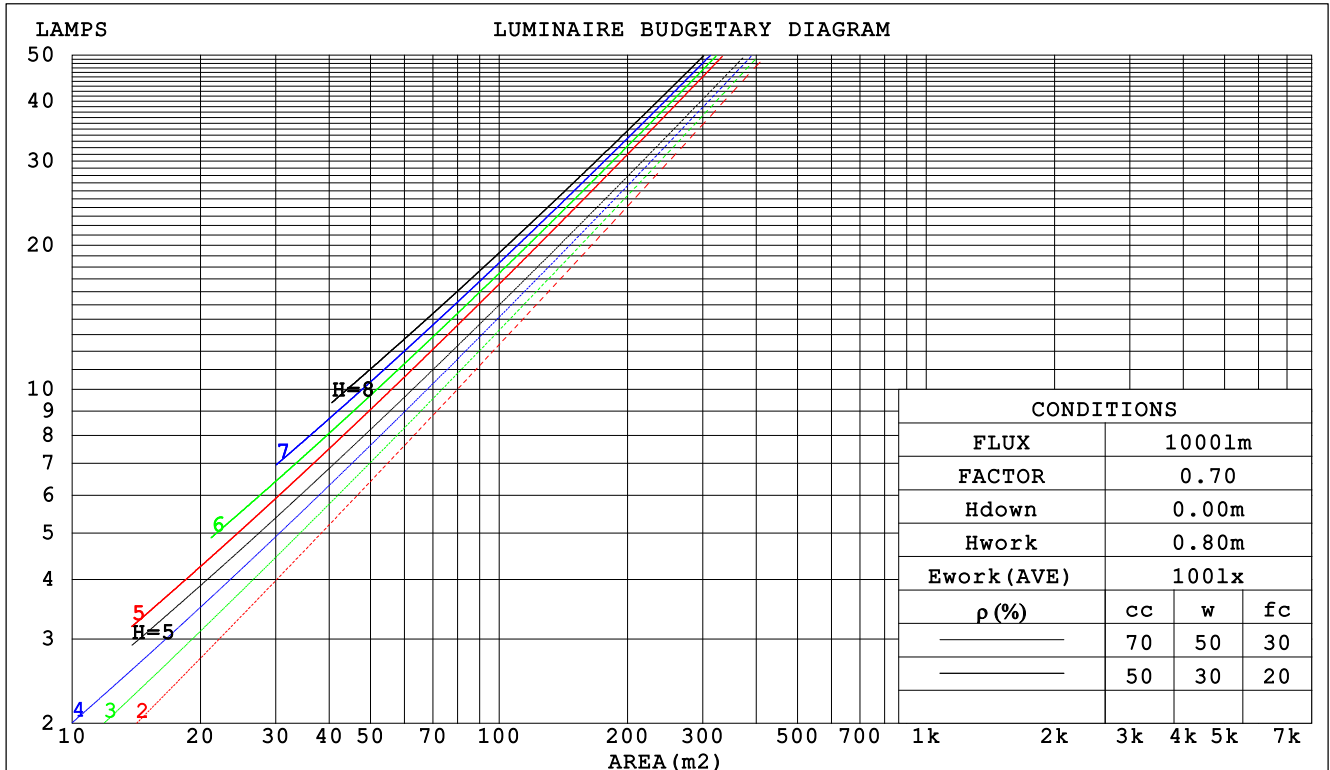
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2018-01-29

$\gamma$  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:0.1158A P:12.49W PF:0.8963 Lamp Flux:1175.5x1 lm		
NAME: 15ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/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	.99	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	.90	.94	.91	.89	.92	.89	.88	.86
4.0	.95	.90	.87	.94	.90	.86	.92	.88	.85	.90	.87	.84	.88	.86	.83	.82
5.0	.90	.86	.82	.89	.85	.82	.88	.84	.81	.86	.83	.80	.85	.82	.79	.78
6.0	.86	.81	.78	.85	.81	.77	.84	.80	.77	.83	.79	.76	.81	.78	.76	.75
7.0	.82	.77	.74	.82	.77	.74	.80	.76	.73	.79	.76	.73	.78	.75	.73	.71
8.0	.79	.74	.70	.78	.73	.70	.77	.73	.70	.76	.72	.70	.75	.72	.69	.68
9.0	.75	.71	.67	.75	.70	.67	.74	.70	.67	.73	.69	.67	.73	.69	.66	.65
10.0	.72	.68	.64	.72	.67	.64	.71	.67	.64	.71	.67	.64	.70	.66	.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:0.1158A P:12.49W PF:0.8963 Lamp Flux:1175.5x1 lm		
NAME: 15ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/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	.155	.088	.028	.148	.084	.027	.135	.078	.025	.124	.071	.023	.113	.066	.021		
2.0	.146	.080	.024	.140	.077	.024	.130	.072	.022	.120	.067	.021	.111	.063	.020		
3.0	.137	.073	.022	.133	.071	.021	.124	.067	.020	.116	.063	.019	.108	.060	.019		
4.0	.130	.068	.020	.126	.066	.020	.119	.063	.019	.112	.060	.018	.105	.057	.017		
5.0	.124	.063	.018	.120	.062	.018	.114	.059	.017	.108	.057	.017	.102	.055	.016		
6.0	.118	.059	.017	.115	.058	.017	.109	.056	.016	.104	.054	.016	.099	.052	.016		
7.0	.113	.056	.016	.110	.055	.016	.105	.053	.015	.101	.052	.015	.096	.050	.015		
8.0	.108	.053	.015	.106	.052	.015	.101	.051	.014	.097	.049	.014	.093	.048	.014		
9.0	.104	.050	.014	.102	.050	.014	.098	.048	.014	.094	.047	.014	.091	.046	.013		
10.0	.100	.048	.013	.098	.047	.013	.094	.046	.013	.091	.045	.013	.088	.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	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.170	.158	.147	.146	.136	.127	.100	.093	.088	.057	.054	.051	.018	.017	.016	
2.0	.153	.133	.116	.131	.115	.100	.090	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.139	.114	.094	.120	.098	.081	.082	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.128	.099	.077	.110	.085	.067	.076	.060	.047	.044	.035	.028	.014	.011	.009	
5.0	.118	.087	.064	.102	.075	.055	.070	.052	.039	.041	.031	.023	.013	.010	.008	
6.0	.110	.077	.053	.095	.067	.047	.065	.047	.033	.038	.028	.020	.012	.009	.006	
7.0	.103	.069	.045	.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	.014	.011	.007	.005	
9.0	.092	.057	.034	.079	.050	.030	.055	.035	.021	.032	.021	.013	.010	.007	.004	
10.0	.088	.053	.030	.076	.046	.026	.052	.032	.019	.031	.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:0.1158A P:12.49W PF:0.8963 Lamp Flux:1175.5x1 lm										
NAME: 15ADL/40°lens 120-277V					TYPE:LED			WEIGHT:		
SPEC.:15ADL/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	-1.0	-0.2	-0.8	-0.0	0.1	-1.4	-0.6	-1.2	-0.4	-0.3
3H	-1.1	-0.4	-0.9	-0.2	-0.0	-1.5	-0.8	-1.3	-0.6	-0.4
4H	-1.2	-0.5	-0.9	-0.3	-0.1	-1.6	-0.9	-1.3	-0.7	-0.5
6H	-1.3	-0.7	-1.0	-0.4	-0.2	-1.7	-1.1	-1.4	-0.8	-0.6
8H	-1.3	-0.7	-1.0	-0.5	-0.2	-1.7	-1.1	-1.4	-0.9	-0.6
12H	-1.4	-0.8	-1.1	-0.5	-0.3	-1.8	-1.2	-1.5	-0.9	-0.7
4H 2H	-1.2	-0.5	-0.9	-0.3	-0.1	-1.6	-0.9	-1.3	-0.7	-0.5
3H	-1.4	-0.8	-1.1	-0.5	-0.3	-1.8	-1.2	-1.5	-0.9	-0.7
4H	-1.5	-0.9	-1.1	-0.6	-0.3	-1.9	-1.3	-1.5	-1.0	-0.7
6H	-1.6	-1.1	-1.2	-0.8	-0.4	-2.0	-1.5	-1.6	-1.2	-0.8
8H	-1.6	-1.2	-1.2	-0.8	-0.5	-2.0	-1.6	-1.6	-1.2	-0.9
12H	-1.7	-1.3	-1.3	-0.9	-0.5	-2.1	-1.7	-1.7	-1.3	-0.9
8H 4H	-1.6	-1.2	-1.2	-0.8	-0.5	-2.0	-1.6	-1.6	-1.2	-0.9
6H	-1.7	-1.4	-1.3	-1.0	-0.6	-2.1	-1.8	-1.7	-1.4	-1.0
8H	-1.8	-1.5	-1.4	-1.1	-0.6	-2.2	-1.9	-1.8	-1.5	-1.0
12H	-1.9	-1.6	-1.4	-1.1	-0.7	-2.3	-2.0	-1.8	-1.5	-1.1
12H 4H	-1.7	-1.3	-1.3	-0.9	-0.5	-2.1	-1.7	-1.7	-1.3	-0.9
6H	-1.8	-1.5	-1.4	-1.1	-0.6	-2.2	-1.9	-1.8	-1.5	-1.0
8H	-1.9	-1.6	-1.4	-1.1	-0.7	-2.3	-2.0	-1.8	-1.5	-1.1
Variations with the observer position at spacings:										
S = 1.0H	+ 3.3 / -11.2					+ 3.3 / -11.0				
1.5H	+ 5.6 / - 9.0					+ 5.7 / - 9.0				
2.0H	+ 6.4 / - 5.4					+ 6.3 / - 5.3				

CIE Pub.117 Corrected 1176 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.6)

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:0.1158A P:12.49W PF:0.8963 Lamp Flux:1175.5x1 lm		
NAME: 15ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/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	89	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	108	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:0.1158A P:12.49W PF:0.8963 Lamp Flux:1175.5x1 lm		
NAME: 15ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/40°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

1167.7 lm

%lum = 99.3%

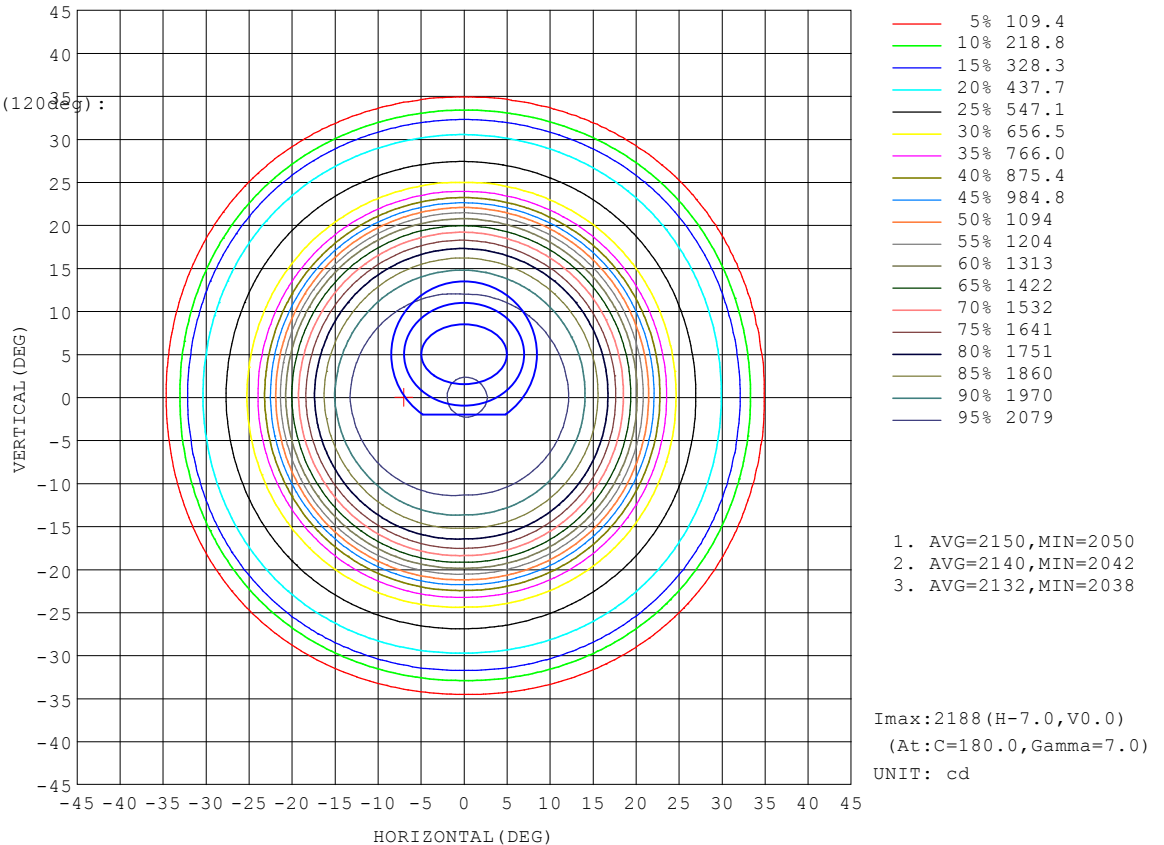
%lamp = 99.3%

Conical surface Flux(120deg):

1173.6 lm

%lum = 99.8%

%lamp = 99.8%

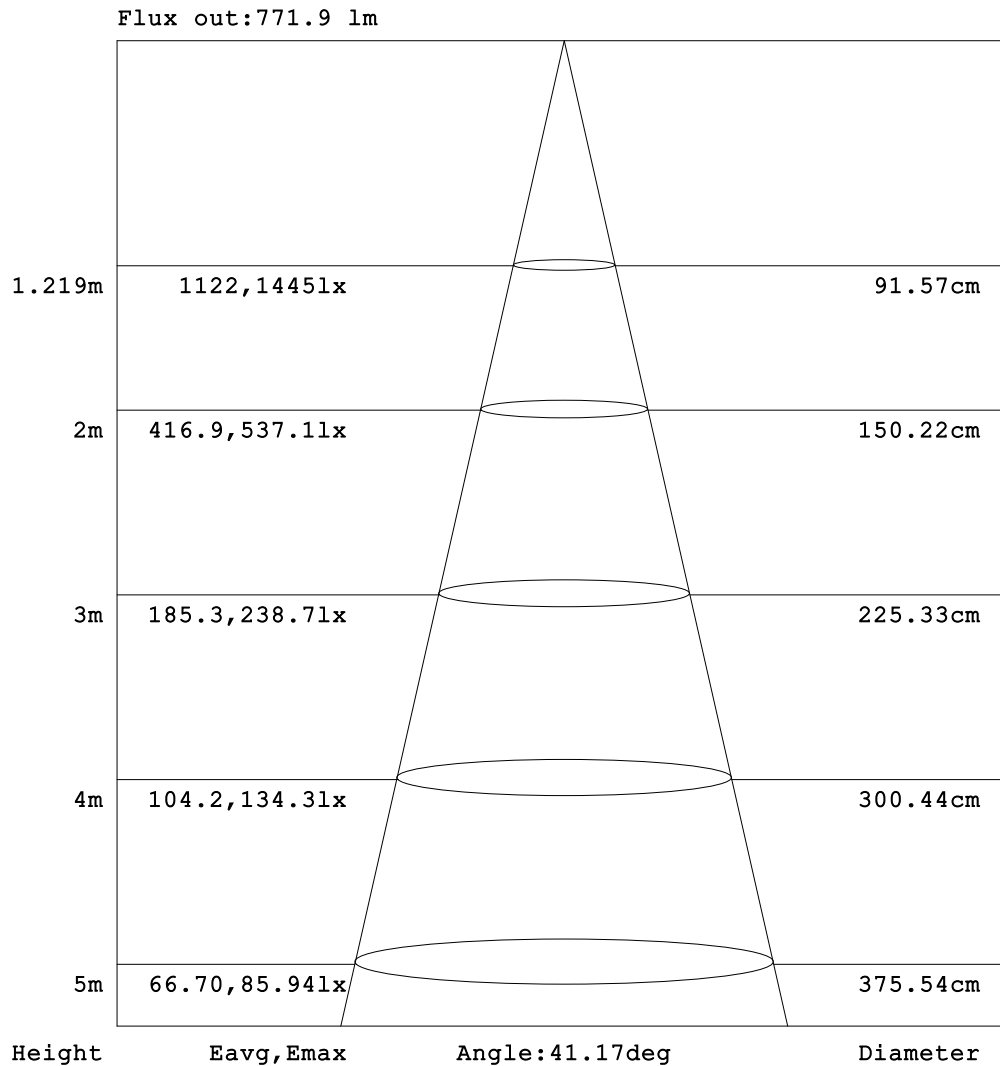


C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2018-01-29

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:0.1158A P:12.49W PF:0.8963 Lamp Flux:1175.5x1 lm		
NAME: 15ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/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.

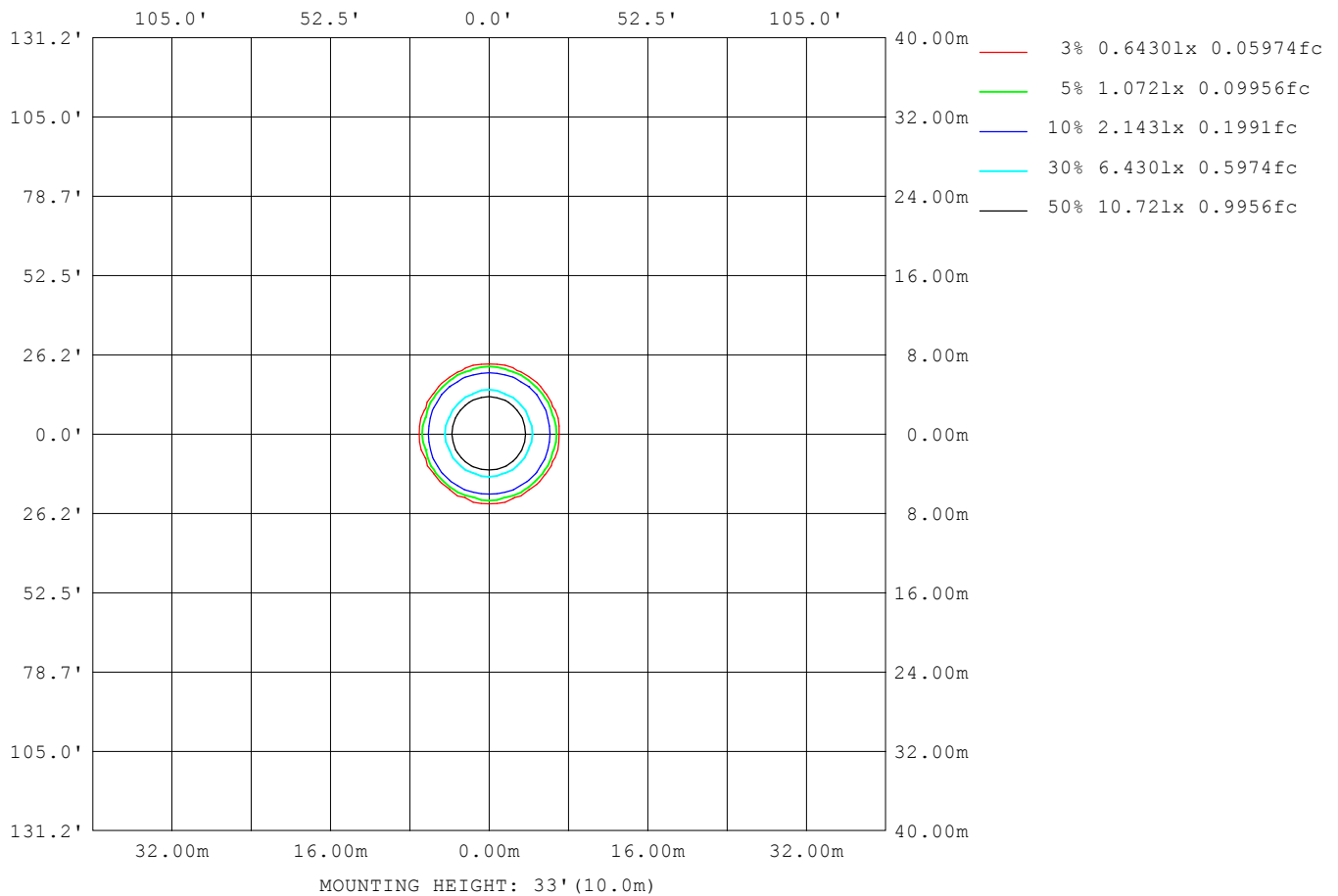
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Aaron  
Test Date: 2018-01-29

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

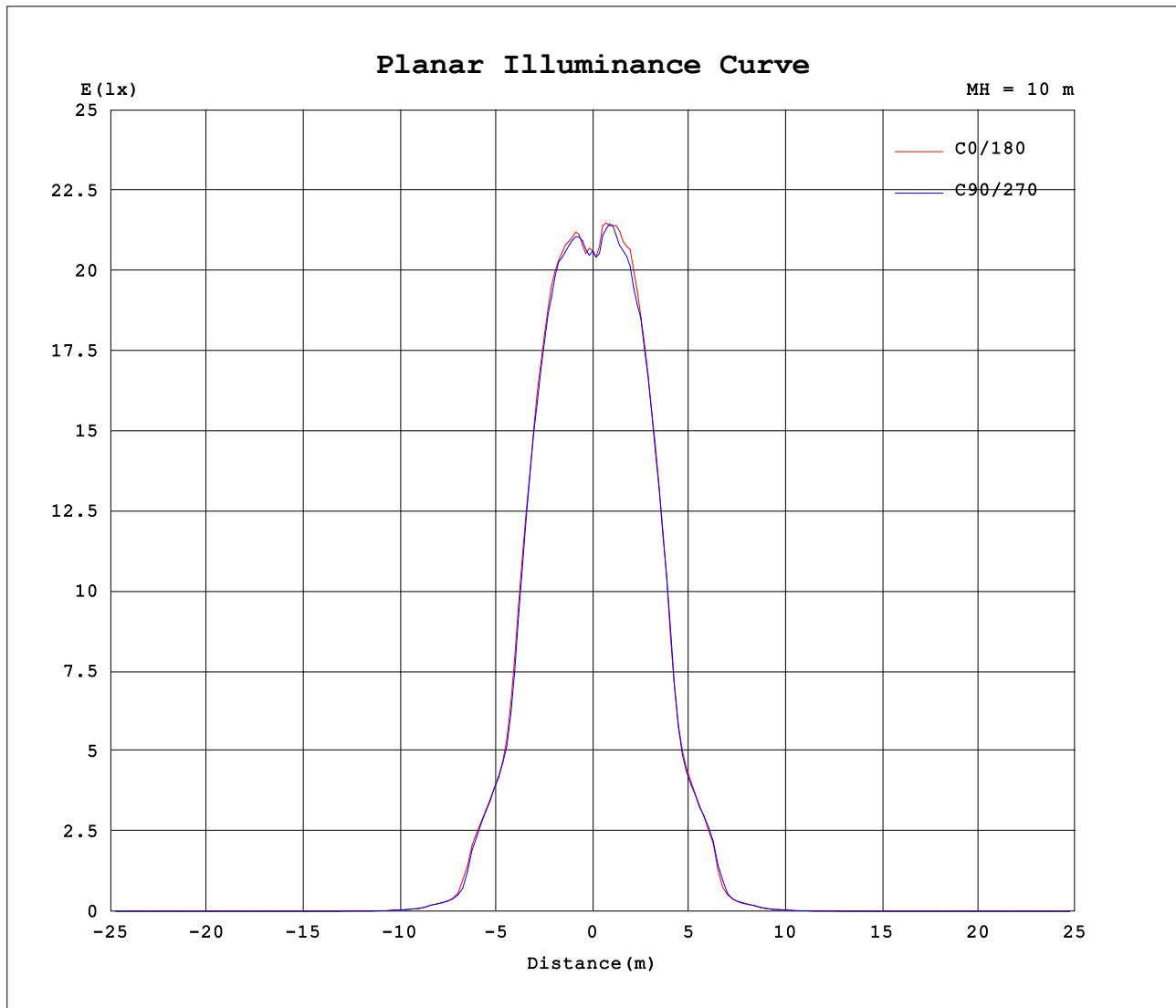
Test:U:120.3V I:0.1158A P:12.49W PF:0.8963 Lamp Flux:1175.5x1 lm		
NAME: 15ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/40°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:



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

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

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.3V I:0.1158A P:12.49W PF:0.8963 Lamp Flux:1175.5x1 lm		
NAME: 15ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/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	2061	2062	2061	2062															
5	2145	2130	2164	2170															
10	2127	2121	2173	2140															
15	1905	1881	1974	1953															
20	1334	1291	1429	1413															
25	629	623	671	654															
30	434	427	458	460															
35	103	94.4	95.8	102															
40	43.6	42.9	40.0	41.1															
45	14.4	14.5	12.9	13.8															
50	5.15	5.43	4.62	5.17															
55	2.80	2.95	2.45	2.86															
60	1.58	1.65	1.35	1.64															
65	0.91	0.94	0.74	0.96															
70	0.51	0.52	0.40	0.55															
75	0.25	0.25	0.15	0.27															
80	0.06	0.02	0.00	0.06															
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	0.00	0.00	0.00	0.00															
130	0.00	0.00	0.00	0.00															
135	0.08	0.09	0.08	0.04															
140	0.20	0.22	0.21	0.18															
145	0.33	0.36	0.33	0.29															
150	0.47	0.49	0.45	0.42															
155	0.59	0.61	0.57	0.53															
160	0.62	0.66	0.62	0.61															
165	0.64	0.66	0.64	0.62															
170	0.64	0.66	0.64	0.63															
175	0.64	0.67	0.67	0.63															
180	0.68	0.69	0.69	0.68															

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  
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