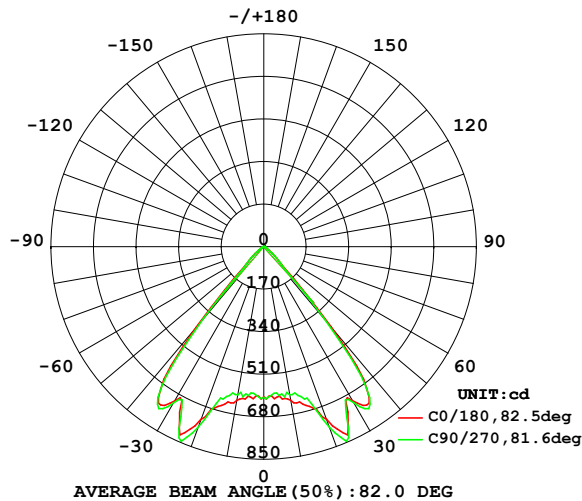


## LUMINAIRE PHOTOMETRIC TEST REPORT

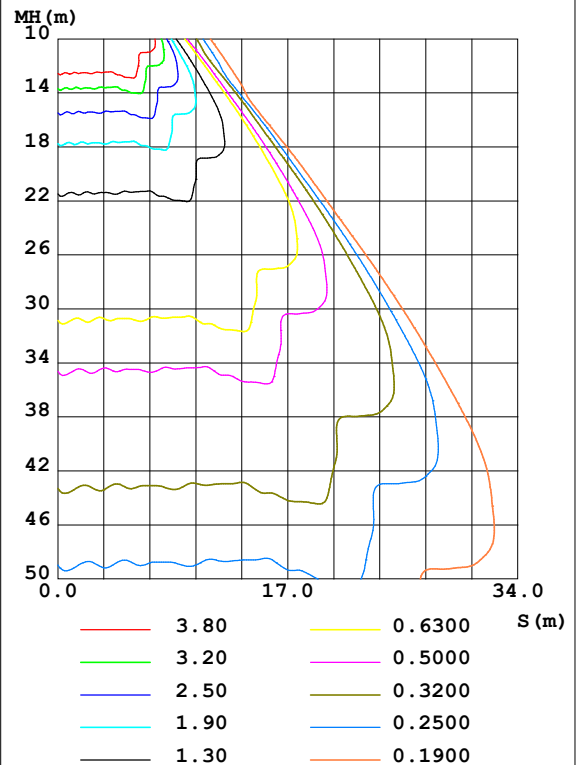
Test:U:120.4V I:0.1157A P:12.48W PF:0.8954 Lamp Flux:1159.94x1 lm		
NAME: 15ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/80°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 92.95 lm/W			
MODEL		I <sub>max</sub> (cd)	844.5	S/MH (C0/180)	1.22
NOMINAL POWER (W)	15	LOR (%)	100.0	S/MH (C90/270)	1.20
RATED VOLTAGE (V)	120-277	TOTAL FLUX (lm)	1159.9	η UP, DN (C0-180)	0.0, 50.0
NOMINAL FLUX (lm)	1159.94	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.0
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	120	η down (%)	100.0	CIBSE SHR MAX	0.80

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, 80°lens  
1#反射器, ADR4CC 98038

### ZONAL FLUX DIAGRAM

#### ZONAL FLUX DIAGRAM:

$\gamma$	C0	C90	C180	C270					$\gamma$	$\Phi$ zone	$\Phi$ total	%lum
10	623.1	601.2	623.1	601.2					0- 10	57.55	57.55	4.96
20	734.2	767.8	734.2	767.8					10- 20	187.6	245.1	21.1
30	710.3	721.1	710.3	721.1					20- 30	352.9	598.0	51.6
40	417.6	376.3	417.6	376.3					30- 40	419.3	1017	87.7
50	51.89	54.46	51.89	54.46					40- 50	106.1	1123	96.8
60	12.51	14.29	12.51	14.29					50- 60	25.30	1149	99
70	3.774	4.457	3.774	4.457					60- 70	7.606	1156	99.7
80	1.201	1.363	1.201	1.363					70- 80	2.635	1159	99.9
90	0	0	0	0					80- 90	0.4834	1159	100
100	0	0	0	0					90-100	0	1159	100
110	0	0	0	0					100-110	0	1159	100
120	0	0	0	0					110-120	0	1159	100
130	0.0192	0.0454	0.0192	0.0454					120-130	0.0058	1159	100
140	0.1608	0.1740	0.1608	0.1740					130-140	0.0787	1159	100
150	0.2448	0.2642	0.2448	0.2642					140-150	0.1351	1160	100
160	0.3284	0.3610	0.3284	0.3610					150-160	0.1364	1160	100
170	0.5025	0.5221	0.5025	0.5221					160-170	0.1186	1160	100
180	0.6121	0.6185	0.6121	0.6185					170-180	0.0533	1160	100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

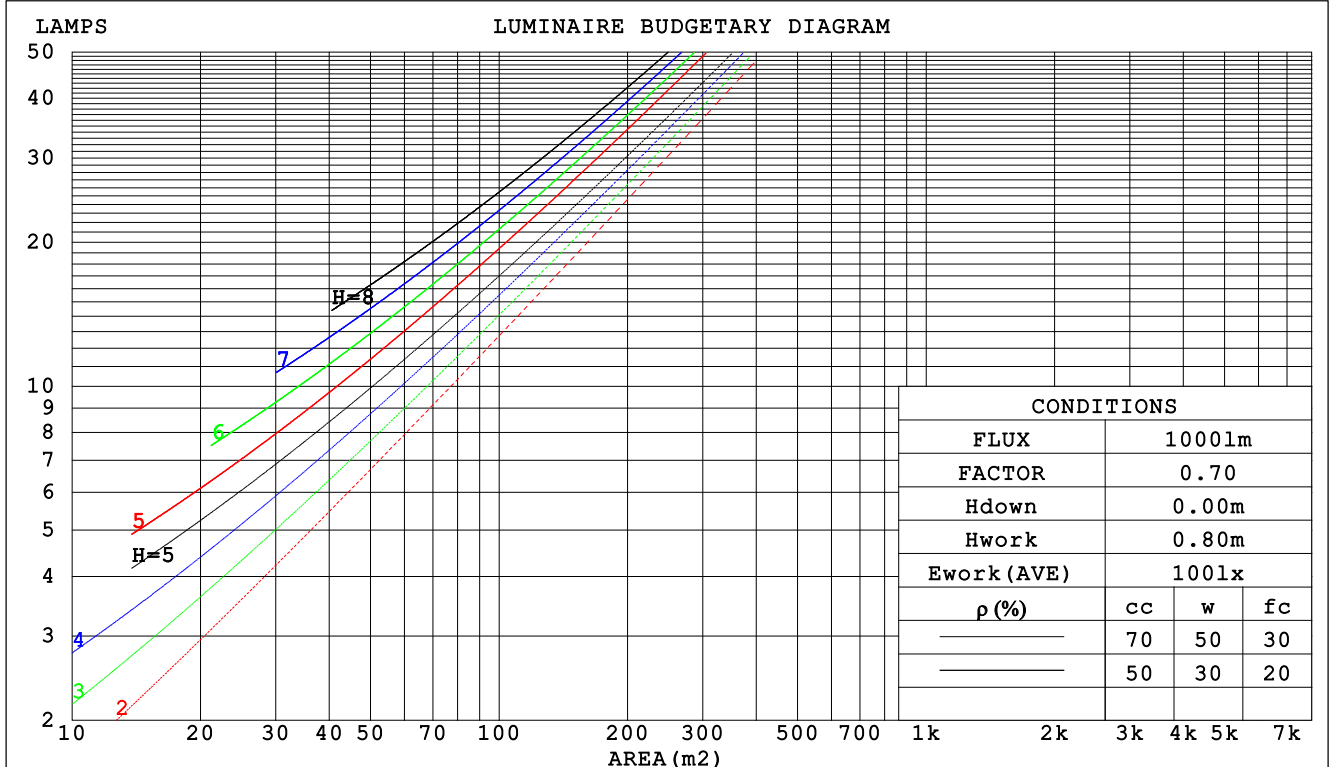
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2018-01-29

$\gamma$  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, 80°lens  
1#反射器, ADR4CC 98038

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.4V I:0.1157A P:12.48W PF:0.8954 Lamp Flux:1159.94x1 lm		
NAME: 15ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/80°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	RCR:Room Cavity Ratio															



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, 80°lens  
1#反射器, ADR4CC 98038

## WEC AND CCEC

Test:U:120.4V I:0.1157A P:12.48W PF:0.8954 Lamp Flux:1159.94x1 lm		
NAME: 15ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/80°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	.198	.113	.036	.192	.109	.035	.179	.103	.033	.167	.096	.031	.156	.091	.029		
2.0	.193	.106	.032	.187	.103	.032	.176	.098	.030	.166	.093	.029	.157	.089	.028		
3.0	.185	.099	.030	.180	.096	.029	.171	.093	.028	.162	.089	.027	.154	.085	.026		
4.0	.177	.092	.027	.173	.090	.027	.165	.087	.026	.157	.084	.025	.150	.082	.025		
5.0	.169	.086	.025	.166	.085	.025	.158	.083	.024	.152	.080	.024	.146	.078	.023		
6.0	.162	.081	.023	.159	.080	.023	.152	.078	.023	.146	.076	.022	.141	.074	.022		
7.0	.155	.077	.022	.152	.076	.022	.146	.074	.021	.141	.072	.021	.136	.071	.021		
8.0	.148	.072	.020	.146	.072	.020	.140	.070	.020	.136	.069	.020	.131	.067	.020		
9.0	.142	.069	.019	.139	.068	.019	.135	.067	.019	.131	.065	.019	.126	.064	.019		
10.0	.136	.065	.018	.134	.065	.018	.130	.063	.018	.126	.062	.018	.122	.061	.018		

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	.173	.157	.144	.148	.135	.124	.101	.093	.085	.058	.054	.050	.019	.017	.016	
2.0	.159	.133	.110	.137	.114	.095	.094	.079	.067	.054	.046	.039	.017	.015	.013	
3.0	.148	.114	.087	.127	.098	.075	.087	.068	.053	.050	.040	.031	.016	.013	.010	
4.0	.139	.100	.069	.120	.086	.060	.082	.060	.042	.048	.035	.025	.015	.011	.008	
5.0	.132	.089	.057	.113	.077	.049	.078	.054	.035	.045	.031	.021	.015	.010	.007	
6.0	.125	.080	.047	.108	.069	.041	.074	.048	.029	.043	.028	.017	.014	.009	.006	
7.0	.119	.072	.040	.103	.063	.034	.071	.044	.024	.041	.026	.015	.013	.008	.005	
8.0	.114	.066	.034	.098	.058	.030	.068	.040	.021	.039	.024	.012	.013	.008	.004	
9.0	.109	.061	.029	.094	.053	.026	.065	.037	.018	.038	.022	.011	.012	.007	.004	
10.0	.105	.057	.026	.090	.050	.022	.063	.035	.016	.036	.021	.010	.012	.007	.003	

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, 80°lens  
1#反射器, ADR4CC 98038

## UGR(Unified Glare Rating) Table

Test:U:120.4V I:0.1157A P:12.48W PF:0.8954 Lamp Flux:1159.94x1 lm										
NAME: 15ADL/80°lens 120-277V					TYPE:LED			WEIGHT:		
SPEC.:15ADL/80°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	9.1	10.2	9.4	10.4	10.6	9.1	10.2	9.4	10.4	10.6
3H	8.9	10.0	9.2	10.2	10.4	8.9	10.0	9.2	10.2	10.4
4H	8.9	9.8	9.1	10.0	10.3	8.9	9.8	9.1	10.0	10.3
6H	8.8	9.7	9.1	9.9	10.2	8.8	9.7	9.1	9.9	10.2
8H	8.7	9.6	9.0	9.8	10.1	8.7	9.6	9.0	9.8	10.1
12H	8.7	9.5	9.0	9.8	10.0	8.7	9.5	9.0	9.8	10.1
4H 2H	8.9	9.8	9.1	10.0	10.3	8.9	9.8	9.1	10.0	10.3
3H	8.7	9.5	9.0	9.8	10.1	8.7	9.5	9.0	9.8	10.1
4H	8.6	9.3	9.0	9.6	10.0	8.6	9.3	9.0	9.6	10.0
6H	8.5	9.2	8.9	9.5	9.8	8.5	9.2	8.9	9.5	9.9
8H	8.5	9.1	8.9	9.4	9.8	8.5	9.1	8.9	9.4	9.8
12H	8.4	9.0	8.8	9.3	9.7	8.4	9.0	8.8	9.3	9.7
8H 4H	8.5	9.1	8.9	9.4	9.8	8.5	9.1	8.9	9.4	9.8
6H	8.4	8.9	8.8	9.3	9.7	8.4	8.9	8.8	9.3	9.7
8H	8.3	8.8	8.8	9.2	9.6	8.3	8.8	8.8	9.2	9.6
12H	8.3	8.6	8.8	9.1	9.6	8.3	8.7	8.8	9.1	9.6
12H 4H	8.4	9.0	8.8	9.3	9.7	8.4	9.0	8.8	9.3	9.7
6H	8.3	8.8	8.8	9.2	9.6	8.3	8.8	8.8	9.2	9.6
8H	8.3	8.6	8.8	9.1	9.6	8.3	8.7	8.8	9.1	9.6
Variations with the observer position at spacings:										
S = 1.0H	+ 3.5 / -12.4					+ 3.6 / -11.5				
1.5H	+ 6.0 / - 9.9					+ 6.1 / - 9.4				
2.0H	+ 5.2 / - 5.6					+ 4.9 / - 5.5				

CIE Pub.117 Corrected 1160 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.5)

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, 80°lens  
1#反射器, ADR4CC 98038

### UTILIZATION FACTORS TABLE

Test:U:120.4V I:0.1157A P:12.48W PF:0.8954 Lamp Flux:1159.94x1 lm		
NAME: 15ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/80°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) $k(RI) \times RCR = 5$									
$k = 0.60$	84	77	73	83	77	72	82	76	72	68
0.80	92	85	81	91	85	81	90	84	81	77
1.00	97	91	87	96	90	87	95	90	86	82
1.25	101	96	92	100	95	92	98	94	91	86
1.50	104	99	96	103	99	95	101	97	94	89
2.00	108	103	100	106	102	99	103	100	97	92
2.50	109	105	102	108	104	101	105	102	99	93
3.00	111	107	105	109	106	103	106	103	101	95
4.00	113	110	108	111	109	106	107	105	104	96
5.00	114	112	110	112	110	108	108	107	105	98
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: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, 80°lens  
1#反射器, ADR4CC 98038

## ISOCANDELA DIAGRAM

Test:U:120.4V I:0.1157A P:12.48W PF:0.8954 Lamp Flux:1159.94x1 lm		
NAME: 15ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/80°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

1093 lm

%lum = 94.2%

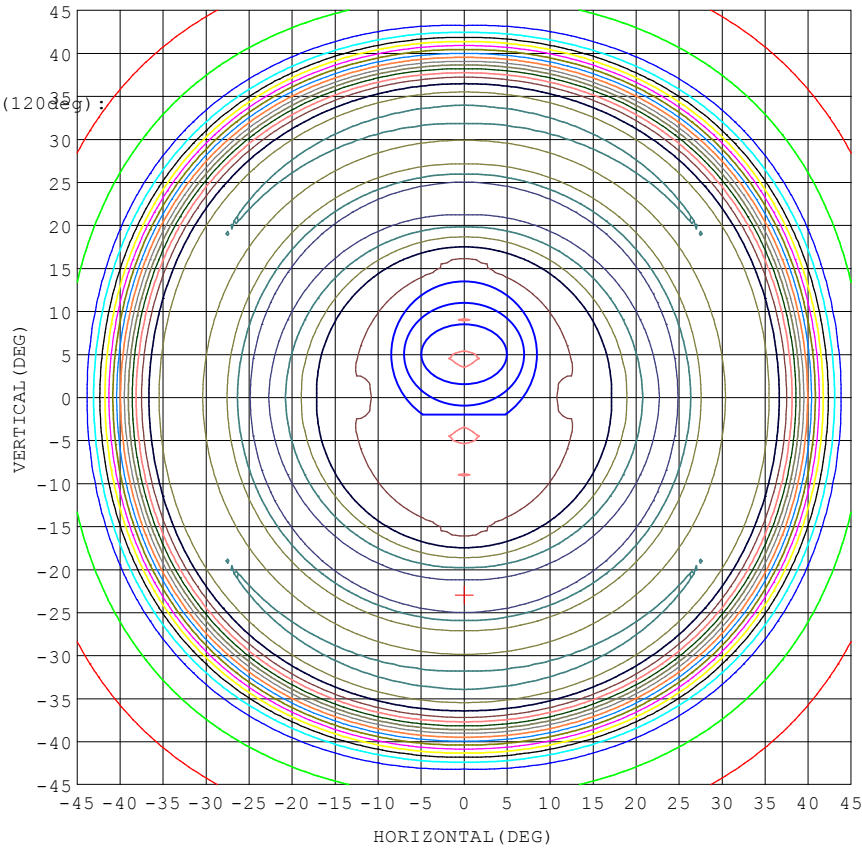
%lamp = 94.2%

Conical surface Flux(120deg):

1148.7 lm

%lum = 99.0%

%lamp = 99.0%



5%	42.23
10%	84.45
15%	126.7
20%	168.9
25%	211.1
30%	253.4
35%	295.6
40%	337.8
45%	380.0
50%	422.3
55%	464.5
60%	506.7
65%	548.9
70%	591.2
75%	633.4
80%	675.6
85%	717.8
90%	760.1
95%	802.3

1. AVG=597.6,MIN=586.9
2. AVG=600.6,MIN=586.9
3. AVG=603.5,MIN=586.9

Imax:844.5 (H0.0,V-23.0)  
(At:C=90.0,Gamma=23.0)

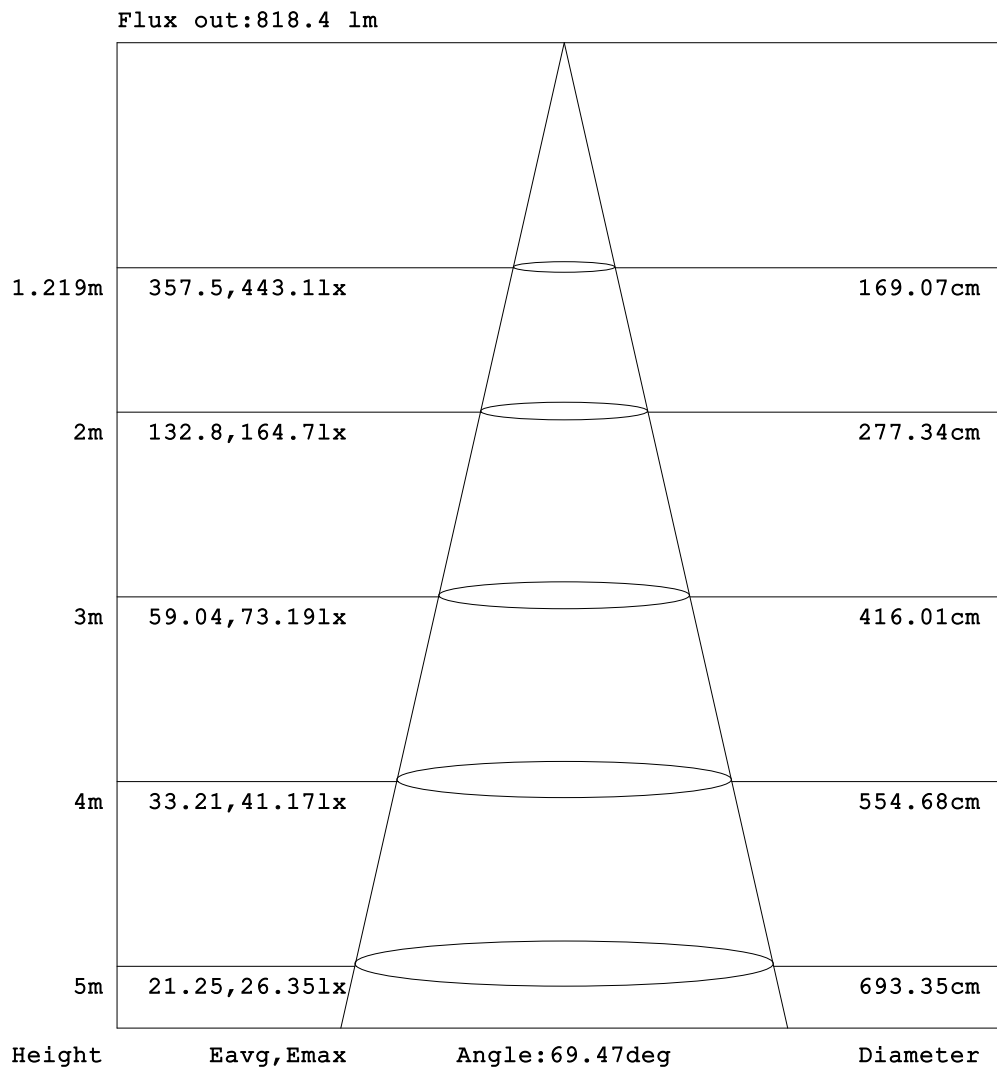
UNIT: cd

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, 80°lens  
1#反射器, ADR4CC 98038

### AAI Figure

Test:U:120.4V I:0.1157A P:12.48W PF:0.8954 Lamp Flux:1159.94x1 lm		
NAME: 15ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/80°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.

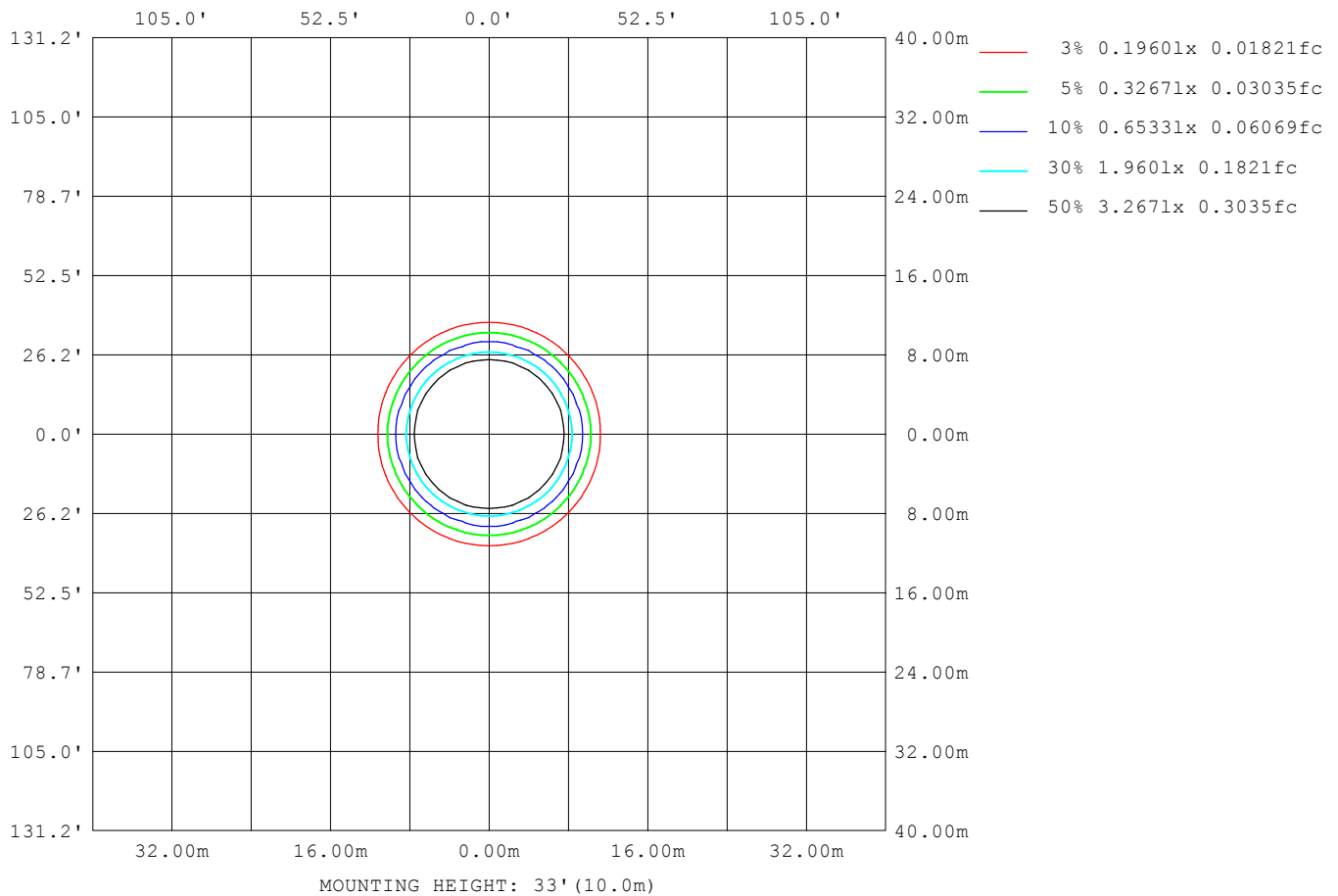
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2018-01-29

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, 80°lens  
1#反射器, ADR4CC 98038



## ISOLUX DIAGRAM

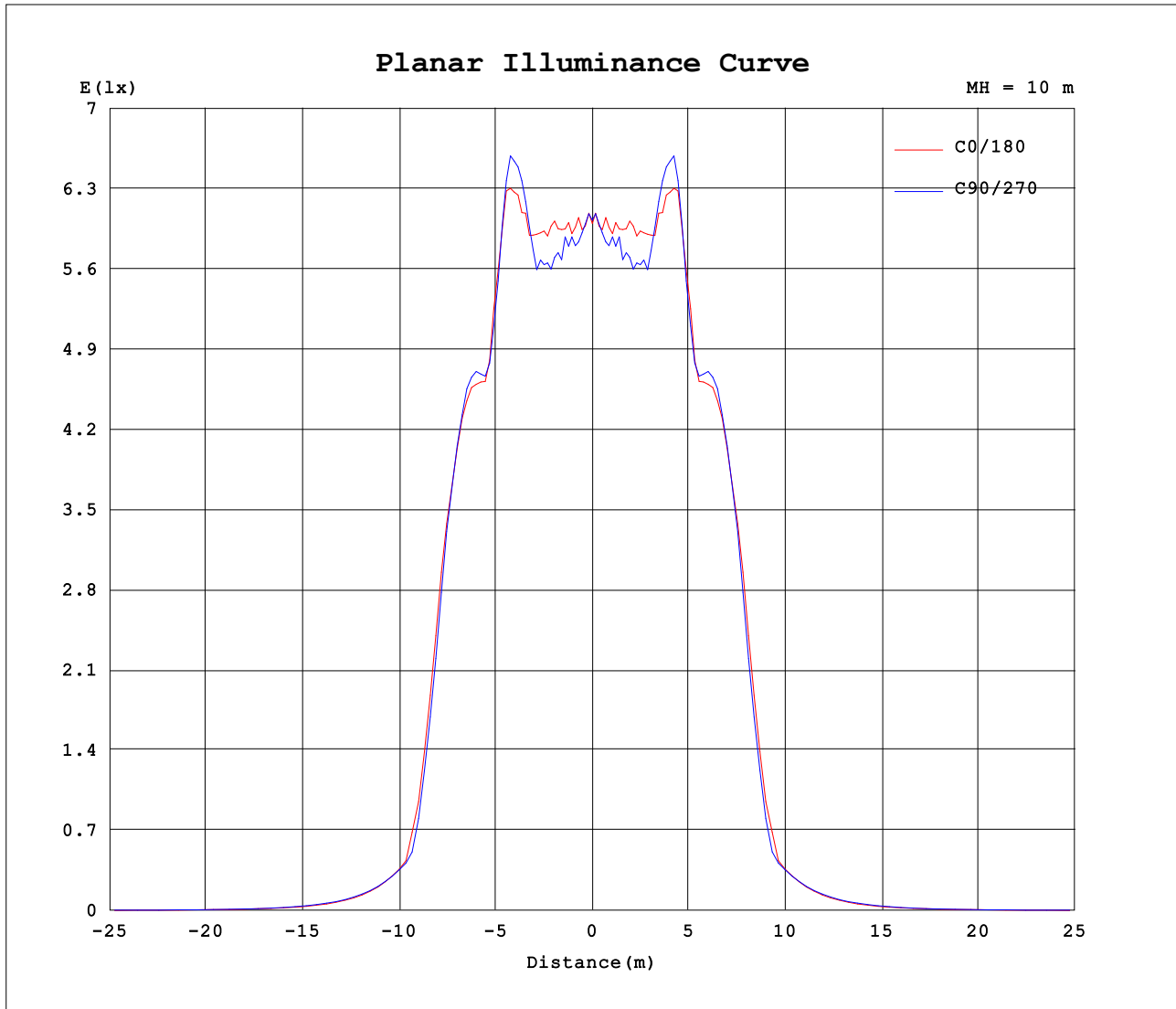
Test:U:120.4V I:0.1157A P:12.48W PF:0.8954 Lamp Flux:1159.94x1 lm		
NAME: 15ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/80°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:



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, 80°lens  
1#反射器, ADR4CC 98038

### 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, 80° lens  
1# 反射器, ADR4CC 98038

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.4V I:0.1157A P:12.48W PF:0.8954 Lamp Flux:1159.94x1 lm		
NAME: 15ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/80°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	600	602	600	602															
5	603	587	603	587															
10	623	601	623	601															
15	657	630	657	630															
20	734	768	734	768															
25	799	803	799	803															
30	710	721	710	721															
35	734	738	734	738															
40	418	376	418	376															
45	102	101	102	101															
50	51.9	54.5	51.9	54.5															
55	25.0	27.5	25.0	27.5															
60	12.5	14.3	12.5	14.3															
65	6.67	7.73	6.67	7.73															
70	3.77	4.46	3.77	4.46															
75	2.21	2.58	2.21	2.58															
80	1.20	1.36	1.20	1.36															
85	0.35	0.37	0.35	0.37															
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	0.02	0.05	0.02	0.05															
135	0.10	0.12	0.10	0.12															
140	0.16	0.17	0.16	0.17															
145	0.21	0.22	0.21	0.22															
150	0.24	0.26	0.24	0.26															
155	0.28	0.31	0.28	0.31															
160	0.33	0.36	0.33	0.36															
165	0.41	0.44	0.41	0.44															
170	0.50	0.52	0.50	0.52															
175	0.59	0.59	0.59	0.59															
180	0.61	0.62	0.61	0.62															

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, 80°lens  
1#反射器, ADR4CC 98038