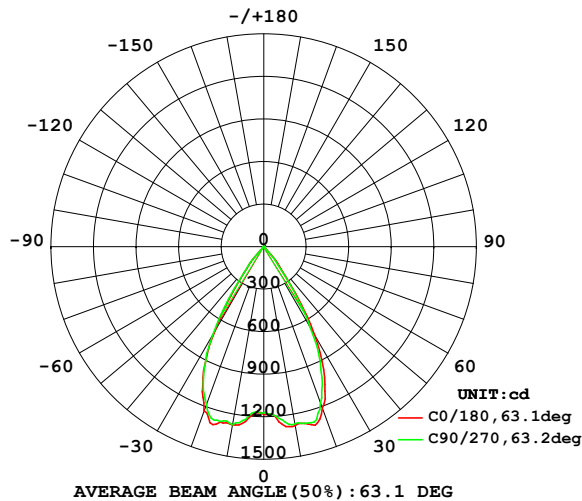


## LUMINAIRE PHOTOMETRIC TEST REPORT

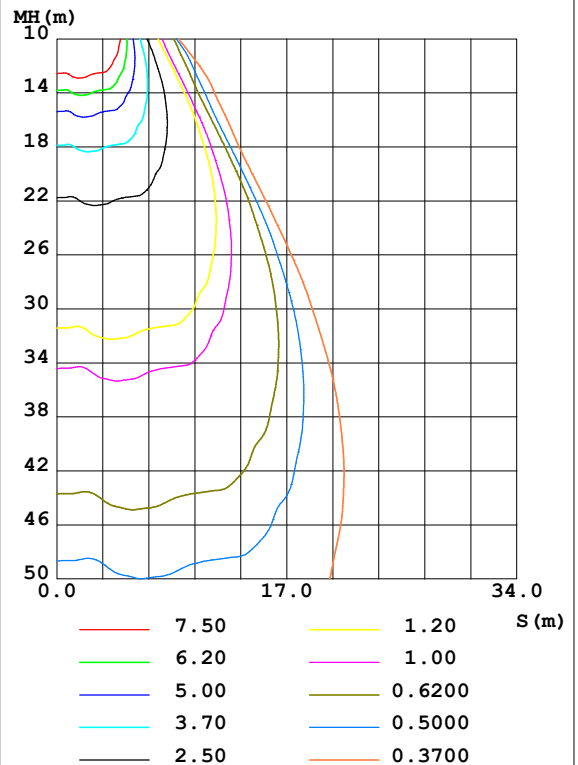
Test:U:120.4V I:0.1157A P:12.41W PF:0.8910 Lamp Flux:1180.67x1 lm		
NAME: 15ADL/60°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/60°lens 120-277V	DIM.:	SERIAL No.:02
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 95.13 lm/W			
MODEL		I <sub>max</sub> (cd)	1310	S/MH (C0/180)	0.91
NOMINAL POWER (W)	15	LOR (%)	100.0	S/MH (C90/270)	0.93
RATED VOLTAGE (V)	120-277	TOTAL FLUX (lm)	1180.7	η UP, DN (C0-180)	0.0, 49.5
NOMINAL FLUX (lm)	1180.67	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.4
LAMPS INSIDE	1	η up (%)	0.1	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	120	η down (%)	99.9	CIBSE SHR MAX	0.90

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, 60°lens  
2#反射器, ADR8CC 98054

### ZONAL FLUX DIAGRAM

#### ZONAL FLUX DIAGRAM:

$\gamma$	C0	C90	C180	C270					$\gamma$	$\Phi$ zone	$\Phi$ total	%lum
10	1282	1271	1276	1275					0- 10	118.4	118.4	10
20	1208	1172	1233	1184					10- 20	358.9	477.3	40.4
30	715.1	646.6	703.5	723.5					20- 30	448.4	925.7	78.4
40	156.7	125.3	146.4	154.9					30- 40	224.9	1151	97.5
50	4.633	5.384	3.778	4.789					40- 50	25.92	1177	99.6
60	1.394	1.773	1.097	1.545					50- 60	2.402	1179	99.9
70	0.4600	0.6119	0.2866	0.5109					60- 70	0.8658	1180	99.9
80	0.0193	0.0510	0	0.0323					70- 80	0.2294	1180	99.9
90	0	0	0	0					80- 90	0.0014	1180	99.9
100	0	0	0	0					90-100	0	1180	99.9
110	0	0	0	0					100-110	0	1180	99.9
120	0	0	0	0					110-120	0	1180	99.9
130	0	0.0255	0.0130	0					120-130	0.0007	1180	99.9
140	0.1850	0.2237	0.2044	0.1718					130-140	0.0707	1180	99.9
150	0.3635	0.4022	0.3703	0.3381					140-150	0.1763	1180	100
160	0.4978	0.5299	0.5108	0.4786					150-160	0.2019	1180	100
170	0.6189	0.6638	0.6638	0.6189					160-170	0.1596	1181	100
180	0.7020	0.7084	0.7084	0.7084					170-180	0.0638	1181	100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

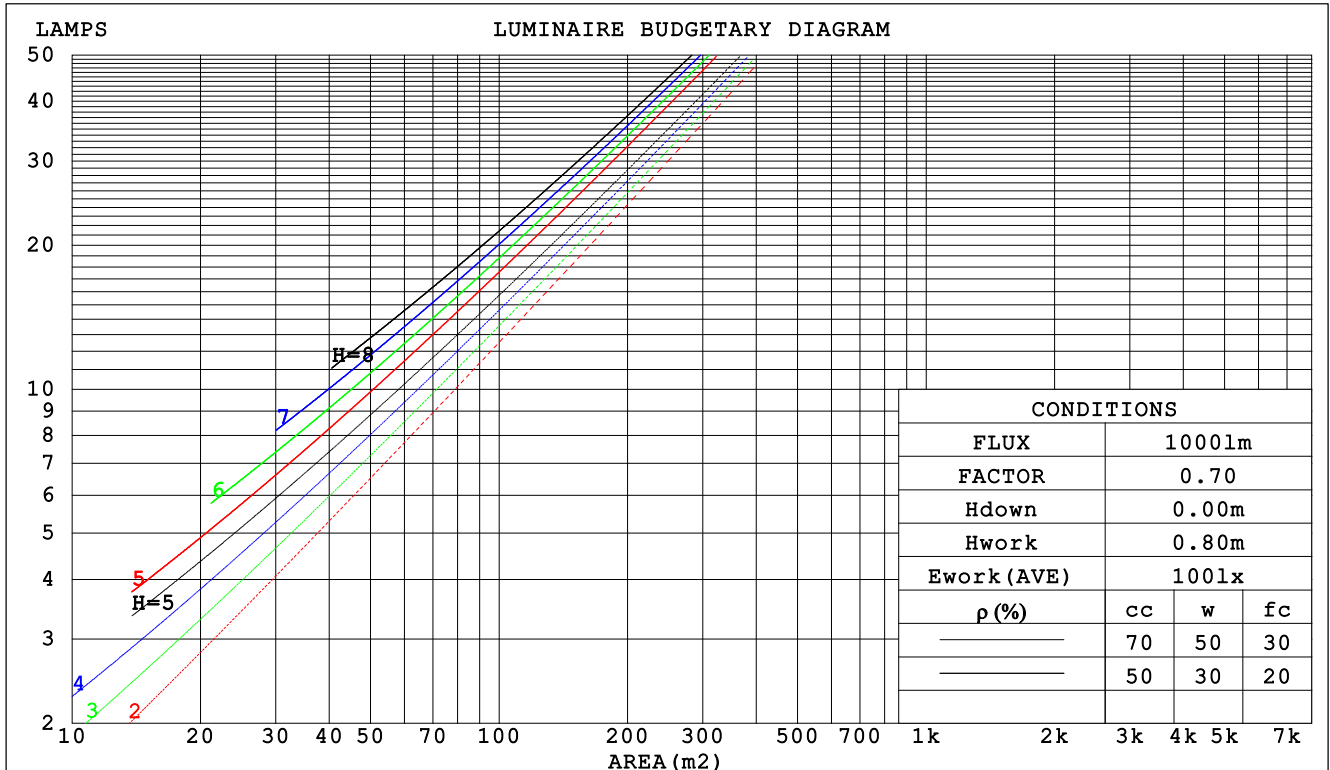
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2018-01-29

$\gamma$  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, 60°lens  
2#反射器, ADR8CC 98054

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.4V I:0.1157A P:12.41W PF:0.8910 Lamp Flux:1180.67x1 lm		
NAME: 15ADL/60°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/60°lens 120-277V	DIM.:	SERIAL No.:02
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, 60°lens  
2#反射器, ADR8CC 98054

## WEC AND CCEC

Test:U:120.4V I:0.1157A P:12.41W PF:0.8910 Lamp Flux:1180.67x1 lm		
NAME: 15ADL/60°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/60°lens 120-277V	DIM.:	SERIAL No.:02
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	.171	.097	.031	.164	.094	.030	.152	.087	.028	.140	.081	.026	.129	.075	.024		
2.0	.163	.089	.027	.158	.087	.027	.147	.082	.025	.137	.077	.024	.128	.073	.023		
3.0	.155	.083	.025	.151	.081	.024	.142	.077	.023	.133	.073	.022	.126	.070	.022		
4.0	.148	.077	.023	.144	.075	.022	.136	.072	.022	.129	.069	.021	.123	.067	.020		
5.0	.142	.072	.021	.138	.071	.021	.131	.068	.020	.125	.066	.020	.119	.064	.019		
6.0	.136	.068	.019	.132	.067	.019	.127	.065	.019	.121	.063	.018	.116	.061	.018		
7.0	.130	.064	.018	.127	.063	.018	.122	.062	.018	.117	.060	.017	.112	.058	.017		
8.0	.125	.061	.017	.122	.060	.017	.118	.059	.017	.113	.057	.017	.109	.056	.016		
9.0	.120	.058	.016	.118	.057	.016	.113	.056	.016	.109	.055	.016	.106	.054	.016		
10.0	.115	.055	.015	.113	.055	.015	.109	.054	.015	.106	.053	.015	.102	.052	.015		

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	.171	.158	.146	.146	.135	.125	.100	.093	.087	.058	.054	.050	.018	.017	.016	
2.0	.156	.133	.114	.133	.114	.099	.091	.079	.069	.053	.046	.040	.017	.015	.013	
3.0	.143	.114	.091	.122	.098	.079	.084	.068	.055	.049	.040	.033	.016	.013	.011	
4.0	.132	.099	.074	.114	.086	.064	.078	.060	.045	.045	.035	.027	.015	.011	.009	
5.0	.124	.088	.061	.106	.076	.053	.073	.053	.037	.042	.031	.022	.014	.010	.007	
6.0	.116	.078	.051	.100	.068	.044	.069	.047	.031	.040	.028	.019	.013	.009	.006	
7.0	.110	.071	.043	.094	.061	.038	.065	.043	.027	.038	.025	.016	.012	.008	.005	
8.0	.104	.064	.037	.090	.056	.032	.062	.039	.023	.036	.023	.014	.012	.008	.005	
9.0	.099	.059	.032	.086	.051	.028	.059	.036	.020	.035	.021	.012	.011	.007	.004	
10.0	.095	.055	.028	.082	.048	.025	.057	.033	.017	.033	.020	.010	.011	.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, 60°lens  
2#反射器, ADR8CC 98054

## UGR(Unified Glare Rating) Table

Test:U:120.4V I:0.1157A P:12.41W PF:0.8910 Lamp Flux:1180.67x1 lm										
NAME: 15ADL/60°lens 120-277V					TYPE:LED			WEIGHT:		
SPEC.:15ADL/60°lens 120-277V					DIM.:			SERIAL No.:02		
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	4.4	5.3	4.6	5.4	5.6	3.8	4.8	4.1	4.9	5.1
3H	4.2	5.0	4.4	5.2	5.4	3.7	4.5	3.9	4.7	4.9
4H	4.1	4.9	4.4	5.1	5.3	3.6	4.4	3.9	4.6	4.8
6H	4.0	4.8	4.3	5.0	5.2	3.5	4.2	3.8	4.5	4.7
8H	4.0	4.7	4.3	4.9	5.2	3.5	4.2	3.8	4.4	4.7
12H	3.9	4.6	4.2	4.9	5.2	3.4	4.1	3.7	4.4	4.6
4H 2H	4.1	4.9	4.4	5.1	5.3	3.6	4.4	3.9	4.6	4.8
3H	3.9	4.6	4.2	4.9	5.2	3.4	4.1	3.7	4.4	4.6
4H	3.8	4.4	4.2	4.7	5.1	3.3	3.9	3.7	4.2	4.5
6H	3.7	4.3	4.1	4.6	5.0	3.2	3.8	3.6	4.1	4.4
8H	3.7	4.2	4.1	4.5	4.9	3.2	3.7	3.6	4.0	4.4
12H	3.6	4.1	4.0	4.5	4.9	3.1	3.6	3.5	3.9	4.3
8H 4H	3.7	4.2	4.1	4.5	4.9	3.2	3.7	3.6	4.0	4.4
6H	3.6	4.0	4.0	4.4	4.8	3.1	3.5	3.5	3.9	4.3
8H	3.5	3.9	4.0	4.3	4.7	3.0	3.4	3.5	3.8	4.2
12H	3.5	3.8	3.9	4.2	4.7	3.0	3.3	3.4	3.7	4.2
12H 4H	3.6	4.1	4.0	4.5	4.9	3.1	3.6	3.5	3.9	4.3
6H	3.5	3.9	4.0	4.3	4.7	3.0	3.4	3.5	3.8	4.2
8H	3.5	3.8	3.9	4.2	4.7	3.0	3.3	3.4	3.7	4.2
Variations with the observer position at spacings:										
S = 1.0H	+ 4.0 / -19.9					+ 4.0 / -18.0				
1.5H	+ 6.8 / -17.3					+ 6.8 / -16.0				
2.0H	+ 6.8 / - 5.2					+ 6.0 / - 4.8				

CIE Pub.117 Corrected 1181 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, 60°lens  
2#反射器, ADR8CC 98054

## UTILIZATION FACTORS TABLE

Test:U:120.4V I:0.1157A P:12.41W PF:0.8910 Lamp Flux:1180.67x1 lm		
NAME: 15ADL/60°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/60°lens 120-277V	DIM.:	SERIAL No.:02
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) $k(RI) \times RCR = 5$									
$k = 0.60$	90	84	81	89	84	81	89	84	80	77
0.80	97	92	88	96	91	88	95	91	88	84
1.00	101	96	93	100	95	92	99	95	92	88
1.25	105	100	97	104	99	96	102	98	96	92
1.50	107	103	100	106	102	99	104	101	98	94
2.00	110	106	103	108	105	102	105	103	100	95
2.50	111	108	105	109	106	104	106	104	102	96
3.00	112	109	107	111	108	106	107	105	103	97
4.00	114	112	110	112	110	108	109	107	106	99
5.00	116	113	112	113	112	110	109	108	107	100
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, 60°lens  
2#反射器, ADR8CC 98054

## ISOCANDELA DIAGRAM

Test:U:120.4V I:0.1157A P:12.41W PF:0.8910 Lamp Flux:1180.67x1 lm		
NAME: 15ADL/60°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/60°lens 120-277V	DIM.:	SERIAL No.:02
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

1173.6 lm

%lum = 99.4%

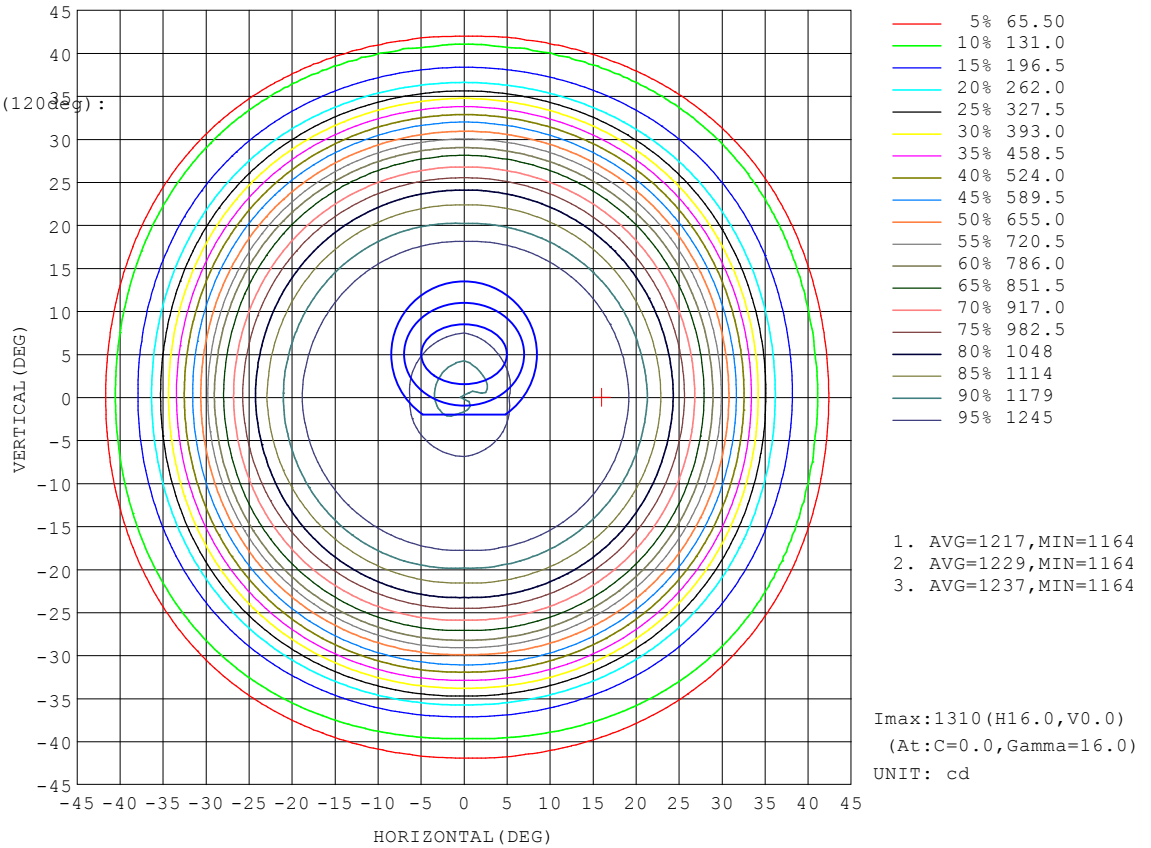
%lamp = 99.4%

Conical surface Flux(120deg):

1178.9 lm

%lum = 99.9%

%lamp = 99.9%

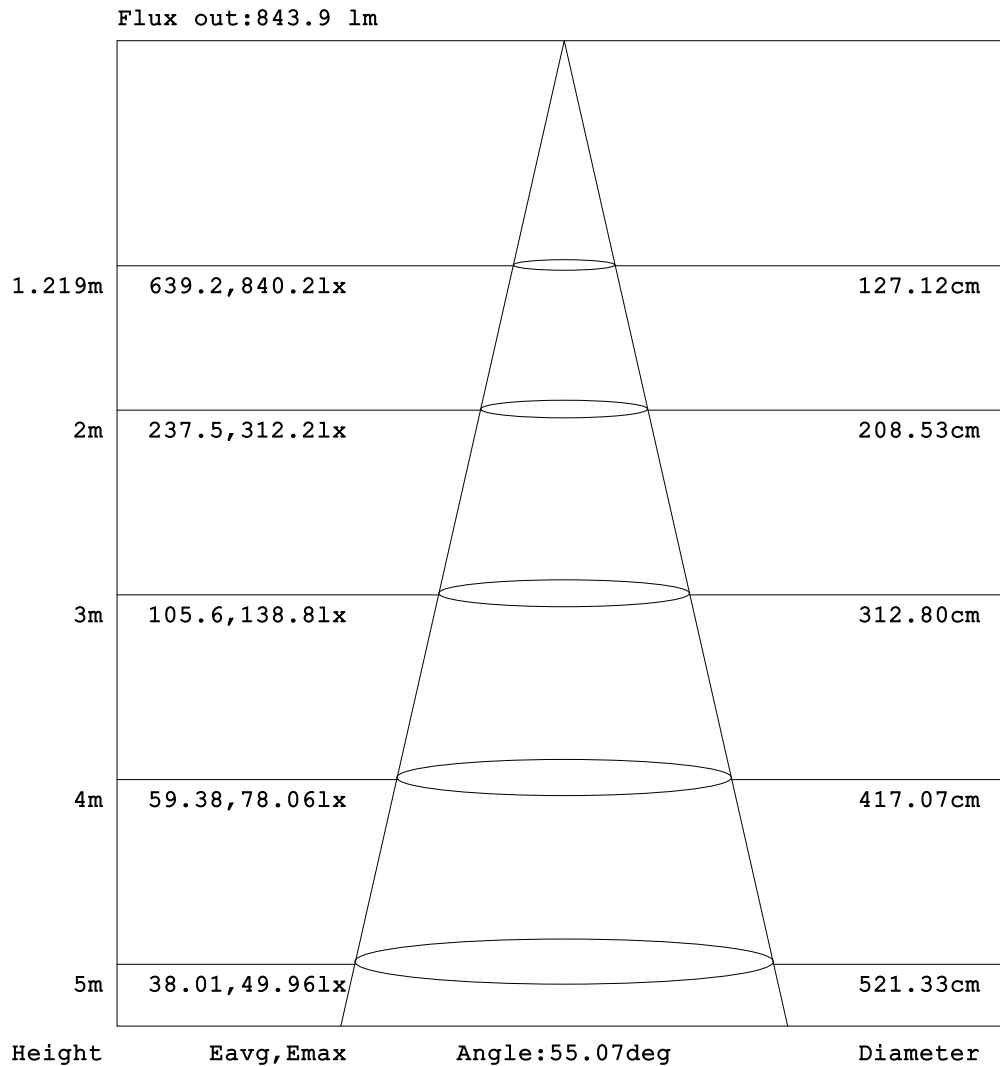


C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2018-01-29

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, 60°lens  
2#反射器, ADR8CC 98054

### AAI Figure

Test:U:120.4V I:0.1157A P:12.41W PF:0.8910 Lamp Flux:1180.67x1 lm		
NAME: 15ADL/60°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/60°lens 120-277V	DIM.:	SERIAL No.:02
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:



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

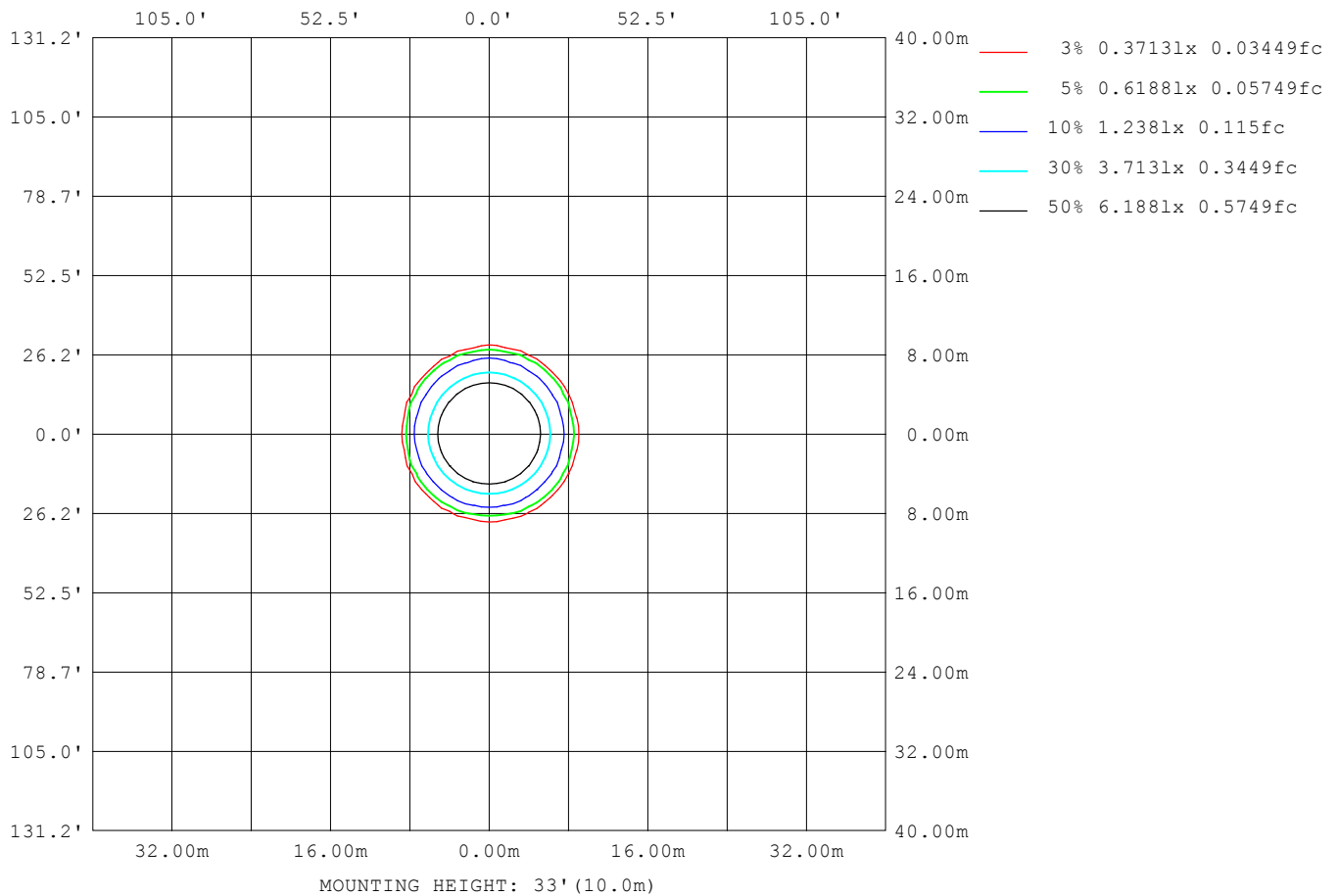
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2018-01-29

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, 60°lens  
2#反射器, ADR8CC 98054



## ISOLUX DIAGRAM

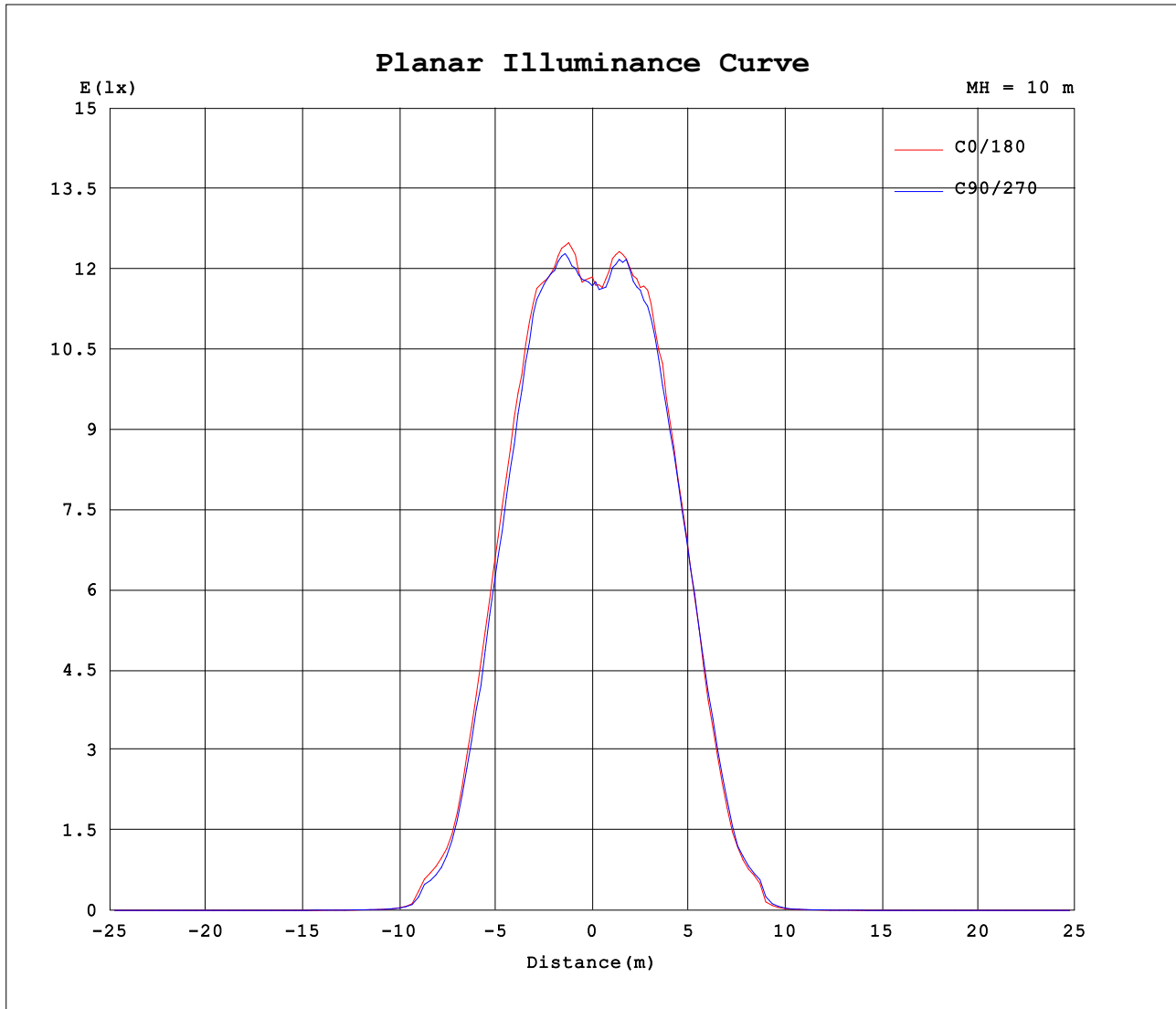
Test:U:120.4V I:0.1157A P:12.41W PF:0.8910 Lamp Flux:1180.67x1 lm		
NAME: 15ADL/60°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/60°lens 120-277V	DIM.:	SERIAL No.:02
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:



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, 60°lens  
2#反射器, ADR8CC 98054

## 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, 60° lens  
 2#反射器, ADR8CC 98054

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.4V I:0.1157A P:12.41W PF:0.8910 Lamp Flux:1180.67x1 lm		
NAME: 15ADL/60°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/60°lens 120-277V	DIM.:	SERIAL No.:02
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	1185	1169	1185	1169															
5	1241	1215	1209	1194															
10	1282	1271	1276	1275															
15	1299	1285	1296	1266															
20	1208	1172	1233	1184															
25	1016	954	1018	1004															
30	715	647	704	723															
35	332	307	348	375															
40	157	125	146	155															
45	14.0	13.0	9.44	12.8															
50	4.63	5.38	3.78	4.79															
55	2.50	3.02	1.99	2.66															
60	1.39	1.77	1.10	1.54															
65	0.80	1.07	0.59	0.91															
70	0.46	0.61	0.29	0.51															
75	0.21	0.29	0.08	0.24															
80	0.02	0.05	0.00	0.03															
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	0.03	0.01	0.00															
135	0.10	0.12	0.11	0.07															
140	0.19	0.22	0.20	0.17															
145	0.29	0.31	0.29	0.26															
150	0.36	0.40	0.37	0.34															
155	0.43	0.47	0.46	0.41															
160	0.50	0.53	0.51	0.48															
165	0.56	0.59	0.58	0.55															
170	0.62	0.66	0.66	0.62															
175	0.67	0.70	0.70	0.68															
180	0.70	0.71	0.71	0.71															

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, 60°lens  
2#反射器, ADR8CC 98054