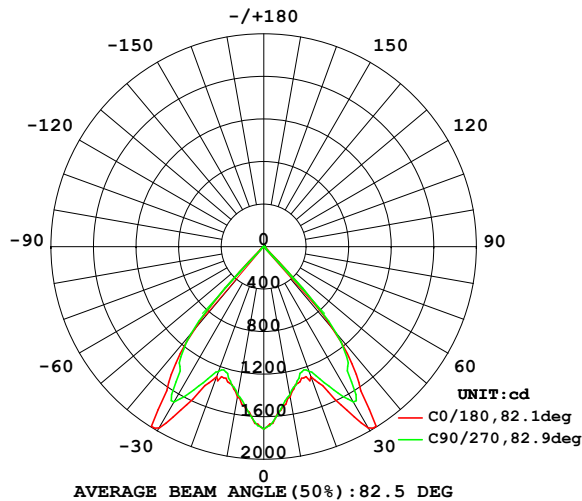


## LUMINAIRE PHOTOMETRIC TEST REPORT

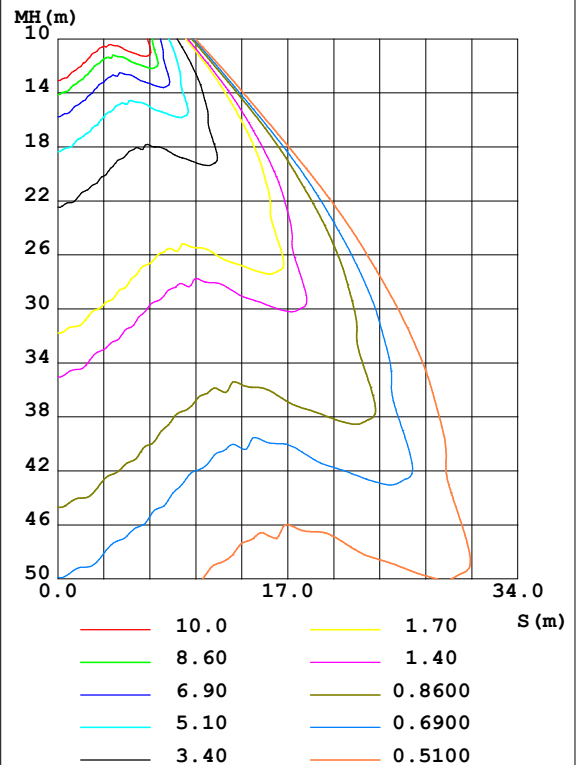
Test:U:120.3V I:0.2596A P:31.04W PF:0.9942 Lamp Flux:2433.82x1 lm		
NAME: 30ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/80°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 78.40 lm/W			
MODEL		Imax(cd)	1992	S/MH(C0/180)	1.20
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	1.22
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	2433.8	$\eta$ UP,DN(C0-180)	0.0,50.0
NOMINAL FLUX(lm)	2433.82	CIE CLASS	DIRECT	$\eta$ UP,DN(C180-360)	0.0,50.0
LAMPS INSIDE	1	$\eta$ up(%)	0.1	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	120	$\eta$ down(%)	99.9	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:2018-01-26

$\gamma$  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, ADR6CC 98046

### ZONAL FLUX DIAGRAM

#### ZONAL FLUX DIAGRAM:

$\gamma$	C0	C90	C180	C270					$\gamma$	$\Phi$ zone	$\Phi$ total	%lum
10	1436	1416	1436	1416					0- 10	145.3	145.3	5.97
20	1301	1249	1301	1249					10- 20	368.9	514.2	21.1
30	1966	1685	1966	1685					20- 30	713.6	1228	50.4
40	1015	1060	1015	1060					30- 40	925.4	2153	88.5
50	43.24	29.26	43.24	29.26					40- 50	250.9	2404	98.8
60	12.45	8.338	12.45	8.338					50- 60	18.06	2422	99.5
70	4.628	3.071	4.628	3.071					60- 70	6.355	2429	99.8
80	1.762	1.180	1.762	1.180					70- 80	2.695	2431	99.9
90	0	0	0	0					80- 90	0.5818	2432	99.9
100	0	0	0	0					90-100	0	2432	99.9
110	0	0	0	0					100-110	0	2432	99.9
120	0.0439	0.1449	0.0439	0.1449					110-120	0.0231	2432	99.9
130	0.3078	0.4590	0.3078	0.4590					120-130	0.2082	2432	99.9
140	0.5463	0.7352	0.5463	0.7352					130-140	0.3966	2432	99.9
150	0.7853	0.9047	0.7853	0.9047					140-150	0.4668	2433	100
160	1.061	1.075	1.061	1.075					150-160	0.4275	2433	100
170	1.388	1.408	1.388	1.408					160-170	0.3412	2434	100
180	1.583	1.583	1.583	1.583					170-180	0.1414	2434	100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

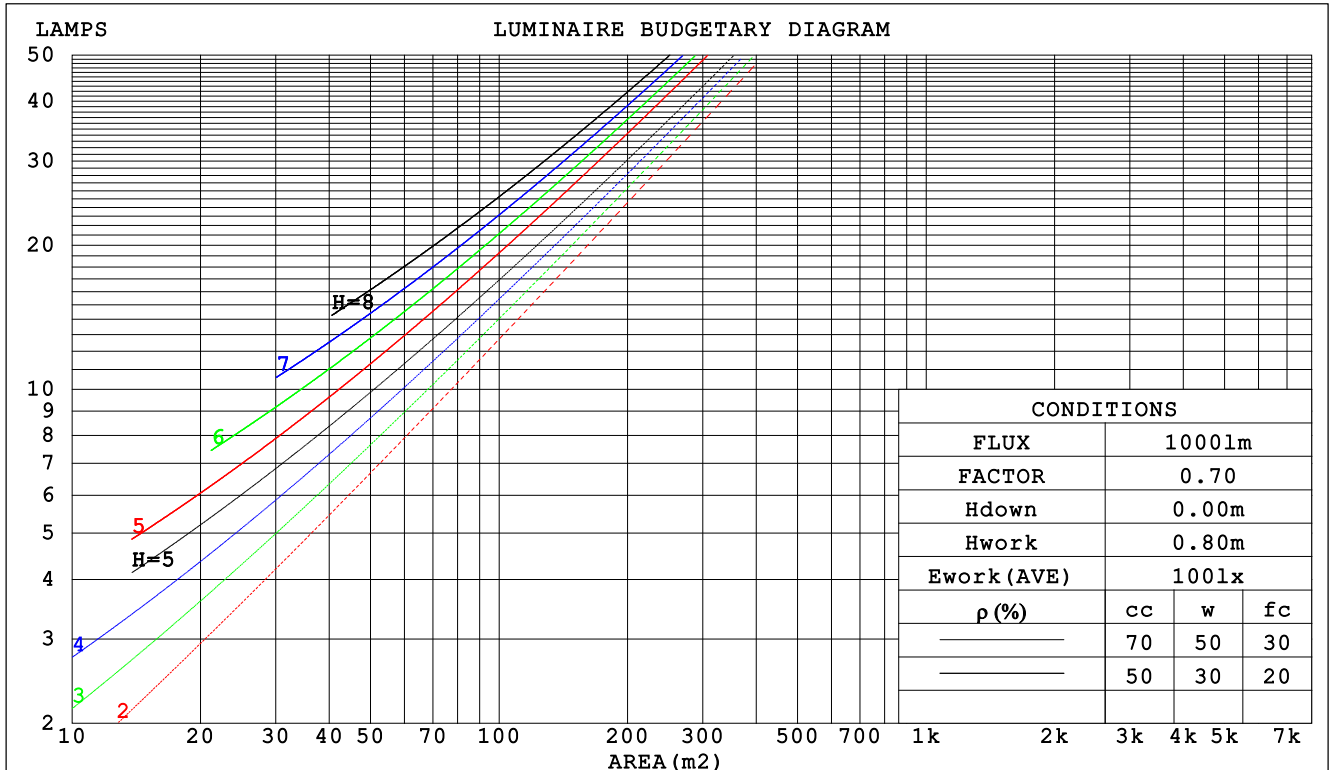
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2018-01-26

$\gamma$  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, ADR6CC 98046

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.3V I:0.2596A P:31.04W PF:0.9942 Lamp Flux:2433.82x1 lm		
NAME: 30ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/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	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	1.10	1.07	1.05	1.08	1.05	1.03	1.04	1.02	.00	.00	.98	.97	.96	.95	.94	.92
2.0	1.01	.97	.93	.99	.95	.92	.96	.93	.90	.93	.90	.88	.90	.88	.86	.84
3.0	.93	.87	.83	.92	.86	.82	.89	.84	.81	.86	.83	.80	.84	.81	.78	.77
4.0	.86	.79	.75	.84	.79	.74	.82	.77	.73	.80	.76	.72	.78	.75	.72	.70
5.0	.79	.72	.67	.78	.72	.67	.76	.71	.67	.74	.70	.66	.73	.69	.65	.64
6.0	.73	.66	.61	.72	.66	.61	.70	.65	.61	.69	.64	.60	.68	.63	.60	.58
7.0	.67	.61	.56	.67	.60	.56	.65	.60	.55	.64	.59	.55	.63	.58	.55	.53
8.0	.63	.56	.51	.62	.55	.51	.61	.55	.51	.60	.54	.51	.59	.54	.50	.49
9.0	.58	.51	.47	.58	.51	.47	.57	.51	.47	.56	.50	.46	.55	.50	.46	.45
10.0	.54	.48	.43	.54	.47	.43	.53	.47	.43	.52	.47	.43	.51	.46	.43	.41



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2018-01-26

$\gamma$  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, ADR6CC 98046

## WEC AND CCEC

Test:U:120.3V I:0.2596A P:31.04W PF:0.9942 Lamp Flux:2433.82x1 lm		
NAME: 30ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/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	.196	.111	.035	.189	.108	.034	.176	.101	.032	.164	.095	.030	.153	.089	.029		
2.0	.190	.104	.032	.184	.101	.031	.173	.096	.030	.163	.092	.029	.154	.087	.028		
3.0	.183	.097	.029	.178	.095	.029	.168	.091	.028	.160	.088	.027	.152	.084	.026		
4.0	.175	.091	.027	.171	.089	.026	.163	.086	.026	.155	.083	.025	.148	.080	.025		
5.0	.168	.085	.025	.164	.084	.025	.157	.082	.024	.150	.079	.024	.144	.077	.023		
6.0	.161	.080	.023	.157	.079	.023	.151	.077	.022	.145	.075	.022	.139	.073	.022		
7.0	.154	.076	.022	.151	.075	.021	.145	.073	.021	.140	.072	.021	.135	.070	.021		
8.0	.147	.072	.020	.145	.071	.020	.139	.070	.020	.135	.068	.020	.130	.067	.019		
9.0	.141	.068	.019	.139	.068	.019	.134	.066	.019	.130	.065	.019	.126	.064	.018		
10.0	.135	.065	.018	.133	.064	.018	.129	.063	.018	.125	.062	.018	.121	.061	.017		

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	.158	.144	.148	.135	.124	.101	.093	.086	.058	.054	.050	.019	.017	.016	
2.0	.159	.133	.111	.136	.115	.096	.094	.079	.067	.054	.046	.039	.017	.015	.013	
3.0	.148	.114	.087	.127	.099	.076	.087	.069	.053	.050	.040	.031	.016	.013	.010	
4.0	.139	.100	.070	.119	.086	.061	.082	.060	.043	.048	.035	.025	.015	.011	.008	
5.0	.132	.089	.057	.113	.077	.050	.078	.054	.035	.045	.031	.021	.015	.010	.007	
6.0	.125	.080	.047	.107	.069	.041	.074	.048	.029	.043	.028	.017	.014	.009	.006	
7.0	.119	.073	.040	.102	.063	.035	.071	.044	.025	.041	.026	.015	.013	.009	.005	
8.0	.114	.067	.034	.098	.058	.030	.068	.041	.021	.039	.024	.013	.013	.008	.004	
9.0	.109	.062	.030	.094	.054	.026	.065	.038	.018	.038	.022	.011	.012	.007	.004	
10.0	.104	.057	.026	.090	.050	.023	.062	.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:2018-01-26

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, ADR6CC 98046

## UGR(Unified Glare Rating) Table

Test:U:120.3V I:0.2596A P:31.04W PF:0.9942 Lamp Flux:2433.82x1 lm										
NAME: 30ADL/80°lens 120-277V					TYPE:LED			WEIGHT:		
SPEC.:30ADL/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	12.6	13.7	12.9	13.9	14.1	12.3	13.4	12.5	13.6	13.7
3H	12.4	13.4	12.7	13.6	13.9	12.1	13.1	12.4	13.3	13.5
4H	12.3	13.3	12.6	13.5	13.7	12.0	13.0	12.3	13.2	13.4
6H	12.3	13.1	12.6	13.4	13.6	11.9	12.8	12.2	13.0	13.3
8H	12.2	13.0	12.5	13.3	13.6	11.9	12.7	12.2	13.0	13.2
12H	12.2	13.0	12.5	13.2	13.5	11.8	12.6	12.2	12.9	13.2
4H 2H	12.3	13.3	12.6	13.5	13.7	12.0	13.0	12.3	13.2	13.4
3H	12.2	13.0	12.5	13.2	13.5	11.8	12.6	12.2	12.9	13.2
4H	12.1	12.8	12.4	13.1	13.4	11.7	12.5	12.1	12.8	13.1
6H	12.0	12.6	12.4	12.9	13.3	11.6	12.3	12.0	12.6	13.0
8H	11.9	12.5	12.3	12.9	13.2	11.6	12.2	12.0	12.5	12.9
12H	11.9	12.4	12.3	12.8	13.2	11.5	12.1	12.0	12.5	12.9
8H 4H	11.9	12.5	12.3	12.9	13.2	11.6	12.2	12.0	12.5	12.9
6H	11.8	12.3	12.3	12.7	13.1	11.5	12.0	11.9	12.4	12.8
8H	11.8	12.2	12.2	12.6	13.1	11.5	11.9	11.9	12.3	12.7
12H	11.7	12.1	12.2	12.5	13.0	11.4	11.8	11.9	12.2	12.7
12H 4H	11.9	12.4	12.3	12.8	13.2	11.5	12.1	12.0	12.5	12.8
6H	11.8	12.2	12.2	12.6	13.1	11.5	11.9	11.9	12.3	12.7
8H	11.7	12.1	12.2	12.5	13.0	11.4	11.8	11.9	12.2	12.7
Variations with the observer position at spacings:										
S = 1.0H	+ 2.9 / -18.0					+ 2.7 / -19.6				
1.5H	+ 5.6 / -16.4					+ 5.5 / -17.2				
2.0H	+ 9.4 / - 6.2					+ 7.8 / - 4.8				

CIE Pub.117 Corrected 2434 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:2018-01-26

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, ADR6CC 98046

### UTILIZATION FACTORS TABLE

Test:U:120.3V I:0.2596A P:31.04W PF:0.9942 Lamp Flux:2433.82x1 lm		
NAME: 30ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/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	84	77	73	83	77	73	69
0.80	92	86	82	92	86	82	90	85	81	77
1.00	98	92	88	97	91	87	95	91	87	83
1.25	102	96	93	101	96	92	99	95	91	87
1.50	105	100	96	104	99	96	101	98	95	90
2.00	108	104	100	106	102	99	104	100	98	93
2.50	110	106	102	108	104	102	105	102	100	94
3.00	111	108	105	109	106	104	106	104	102	95
4.00	113	110	108	111	109	107	108	106	104	97
5.00	115	112	110	112	110	109	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:2018-01-26

$\gamma$  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, ADR6CC 98046

## ISOCANDELA DIAGRAM

Test:U:120.3V I:0.2596A P:31.04W PF:0.9942 Lamp Flux:2433.82x1 lm		
NAME: 30ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/80°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

2379.6 lm

%lum = 97.8%

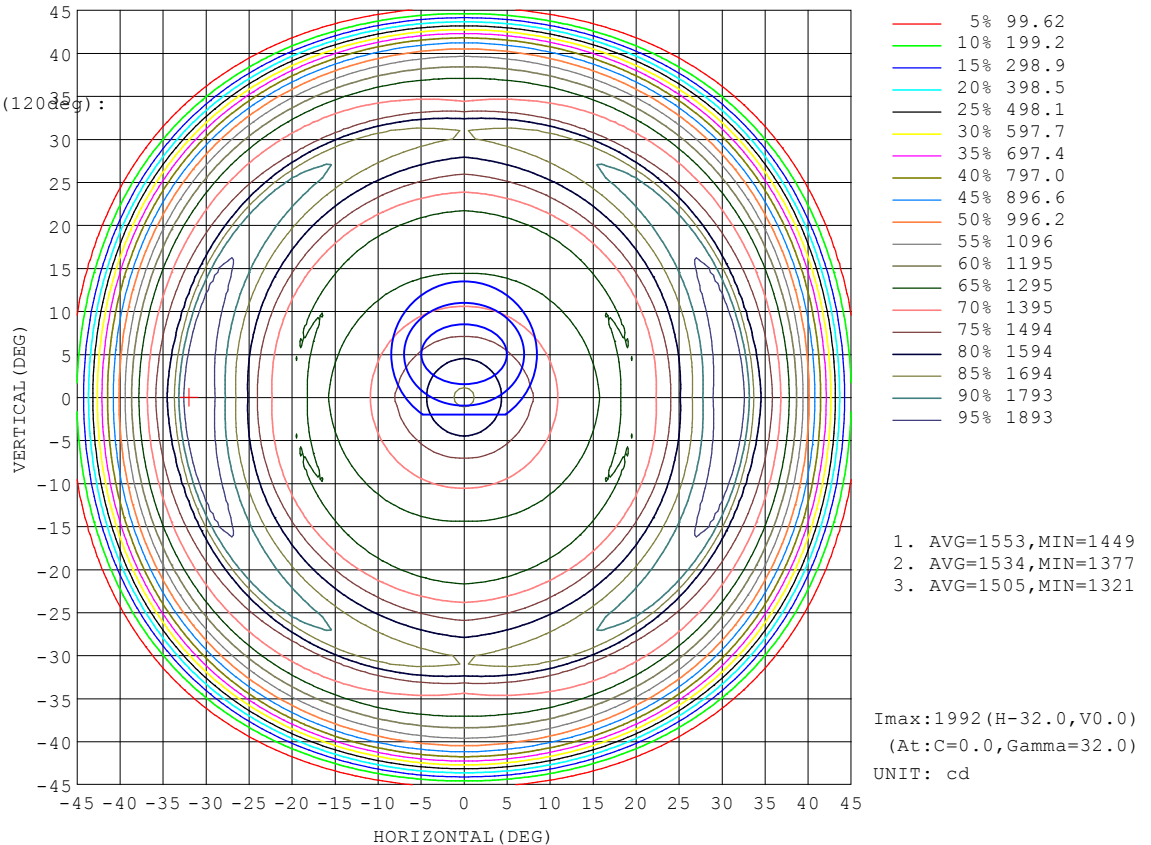
%lamp = 97.8%

Conical surface Flux(120deg):

2422.2 lm

%lum = 99.5%

%lamp = 99.5%

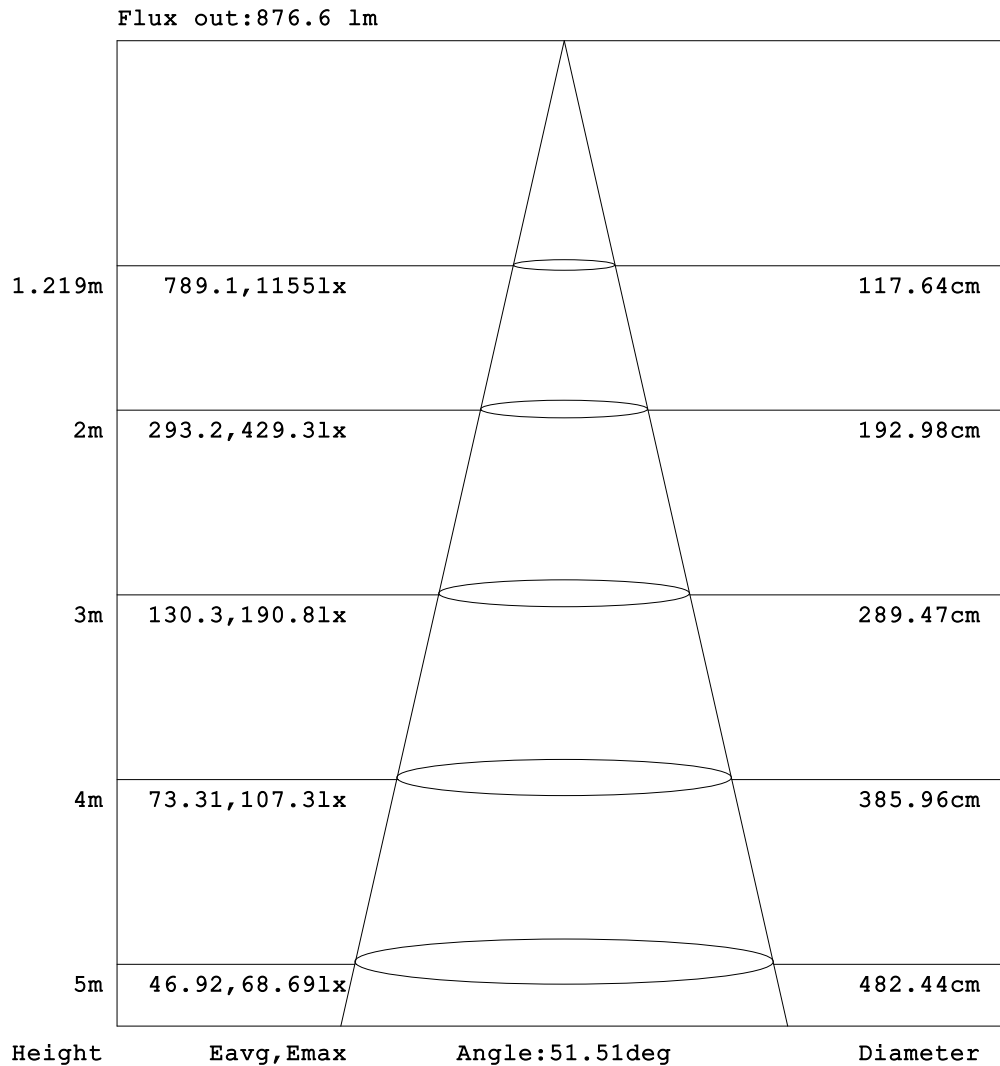


C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2018-01-26

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, ADR6CC 98046

### AAI Figure

Test:U:120.3V I:0.2596A P:31.04W PF:0.9942 Lamp Flux:2433.82x1 lm		
NAME: 30ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/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.

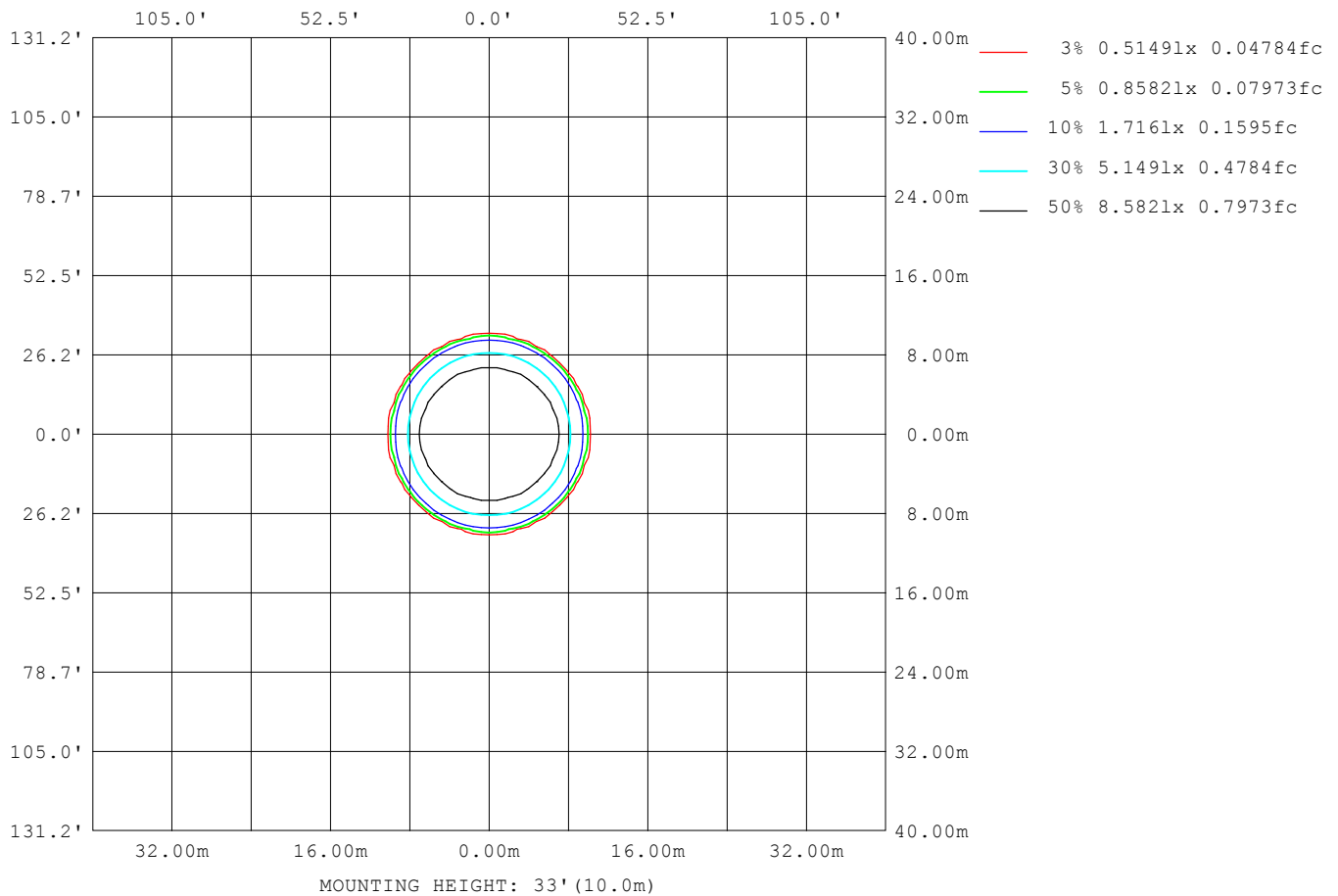
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2018-01-26

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, ADR6CC 98046



## ISOLUX DIAGRAM

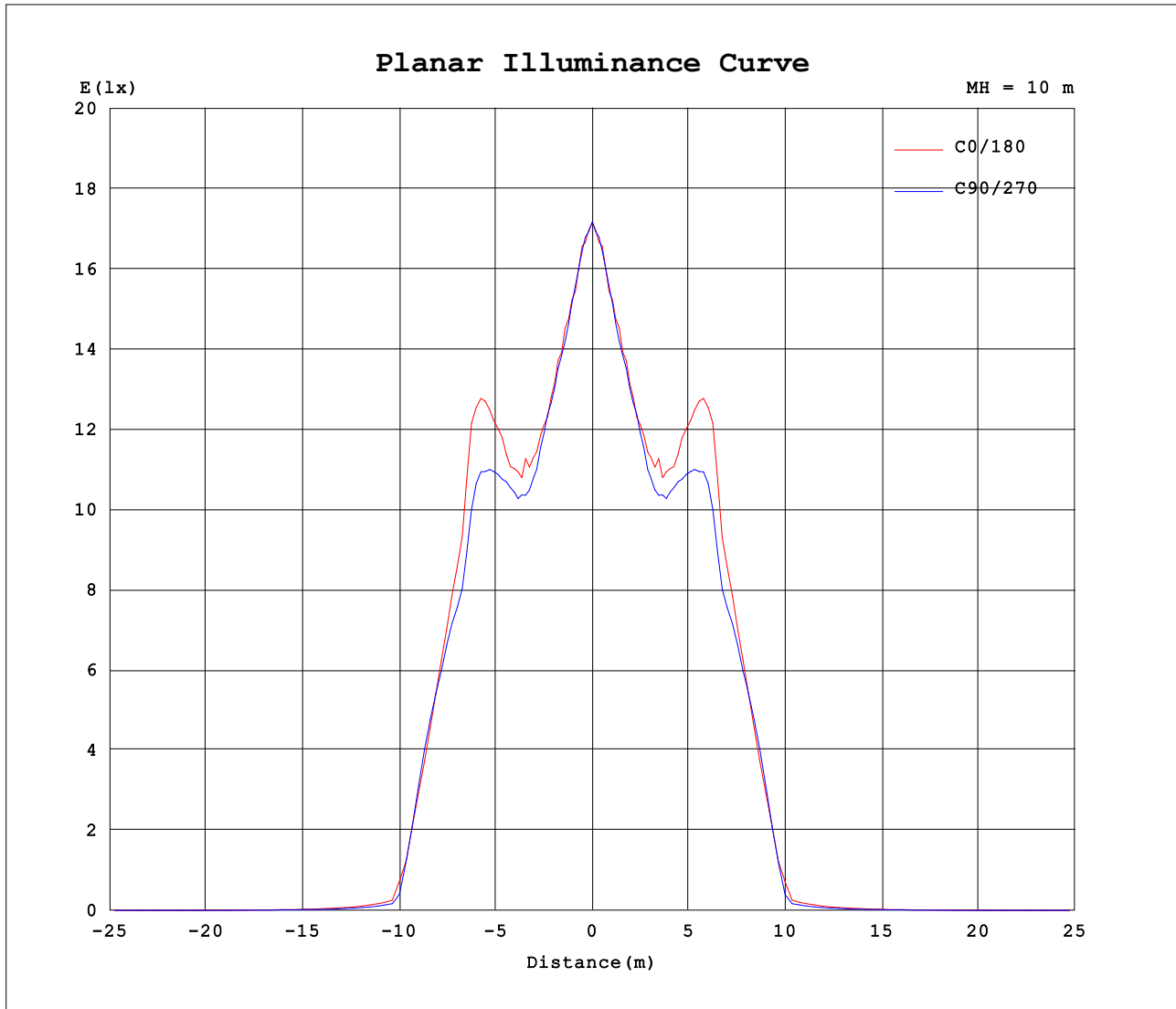
Test:U:120.3V I:0.2596A P:31.04W PF:0.9942 Lamp Flux:2433.82x1 lm		
NAME: 30ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/80°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2018-01-26

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, ADR6CC 98046

## Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Aaron  
 Test Date: 2018-01-26

$\gamma$  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, ADR6CC 98046

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.3V I:0.2596A P:31.04W PF:0.9942 Lamp Flux:2433.82x1 lm		
NAME: 30ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/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	1716	1717	1716	1717															
5	1562	1576	1562	1576															
10	1436	1416	1436	1416															
15	1315	1281	1315	1281															
20	1301	1249	1301	1249															
25	1584	1445	1584	1445															
30	1966	1685	1966	1685															
35	1559	1374	1559	1374															
40	1015	1060	1015	1060															
45	204	112	204	112															
50	43.2	29.3	43.2	29.3															
55	22.6	15.2	22.6	15.2															
60	12.4	8.34	12.4	8.34															
65	7.33	4.89	7.33	4.89															
70	4.63	3.07	4.63	3.07															
75	2.99	2.00	2.99	2.00															
80	1.76	1.18	1.76	1.18															
85	0.58	0.32	0.58	0.32															
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	0.01	0.00	0.01															
120	0.04	0.14	0.04	0.14															
125	0.18	0.30	0.18	0.30															
130	0.31	0.46	0.31	0.46															
135	0.43	0.60	0.43	0.60															
140	0.55	0.74	0.55	0.74															
145	0.67	0.83	0.67	0.83															
150	0.79	0.90	0.79	0.90															
155	0.89	0.97	0.89	0.97															
160	1.06	1.07	1.06	1.07															
165	1.19	1.24	1.19	1.24															
170	1.39	1.41	1.39	1.41															
175	1.51	1.53	1.51	1.53															
180	1.58	1.58	1.58	1.58															

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2018-01-26

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, ADR6CC 98046