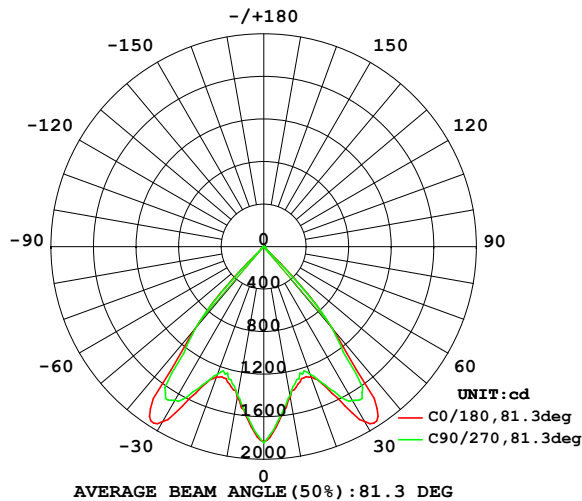


## LUMINAIRE PHOTOMETRIC TEST REPORT

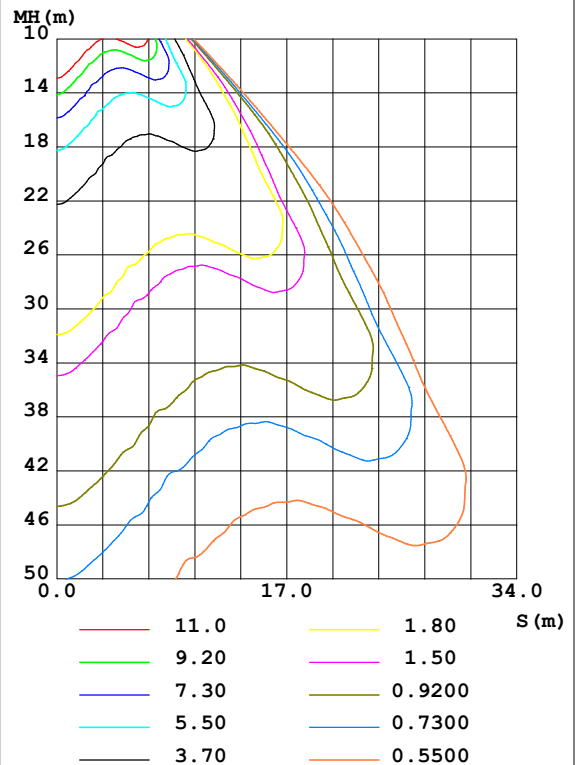
Test:U:120.3V I:0.2623A P:31.37W PF:0.9941 Lamp Flux:2468.49x1 lm		
NAME: 30ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/80°lens 120-277V	DIM.:	SERIAL No.:02
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 78.69 lm/W			
MODEL		I <sub>max</sub> (cd)	1956	S/MH (C0/180)	1.19
NOMINAL POWER (W)	30	LOR (%)	100.0	S/MH (C90/270)	1.18
RATED VOLTAGE (V)	120-277	TOTAL FLUX (lm)	2468.5	η UP, DN (C0-180)	0.0, 50.0
NOMINAL FLUX (lm)	2468.49	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.0
LAMPS INSIDE	1	η up (%)	0.1	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	120	η 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

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  
2#反射器, ADR9.5CC 98057

### ZONAL FLUX DIAGRAM

#### ZONAL FLUX DIAGRAM:

$\gamma$	C0	C90	C180	C270					$\gamma$	$\Phi$ zone	$\Phi$ total	%lum
10	1438	1422	1438	1422					0- 10	149.7	149.7	6.06
20	1303	1278	1303	1278					10- 20	369.5	519.2	21
30	1899	1670	1899	1670					20- 30	710.0	1229	49.8
40	1010	998.2	1010	998.2					30- 40	973.9	2203	89.3
50	25.38	18.38	25.38	18.38					40- 50	244.8	2448	99.2
60	8.413	5.806	8.413	5.806					50- 60	11.47	2459	99.6
70	3.496	2.305	3.496	2.305					60- 70	4.553	2464	99.8
80	1.401	0.8561	1.401	0.8561					70- 80	2.052	2466	99.9
90	0	0	0	0					80- 90	0.4665	2466	99.9
100	0	0	0	0					90-100	0	2466	99.9
110	0	0	0	0					100-110	0	2466	99.9
120	0.0437	0.1565	0.0437	0.1565					110-120	0.0282	2467	99.9
130	0.3059	0.4626	0.3059	0.4626					120-130	0.2155	2467	99.9
140	0.5311	0.7126	0.5311	0.7126					130-140	0.3881	2467	99.9
150	0.7745	0.8875	0.7745	0.8875					140-150	0.4559	2468	100
160	1.043	1.063	1.043	1.063					150-160	0.4230	2468	100
170	1.368	1.412	1.368	1.412					160-170	0.3397	2468	100
180	1.569	1.575	1.569	1.575					170-180	0.1407	2468	100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

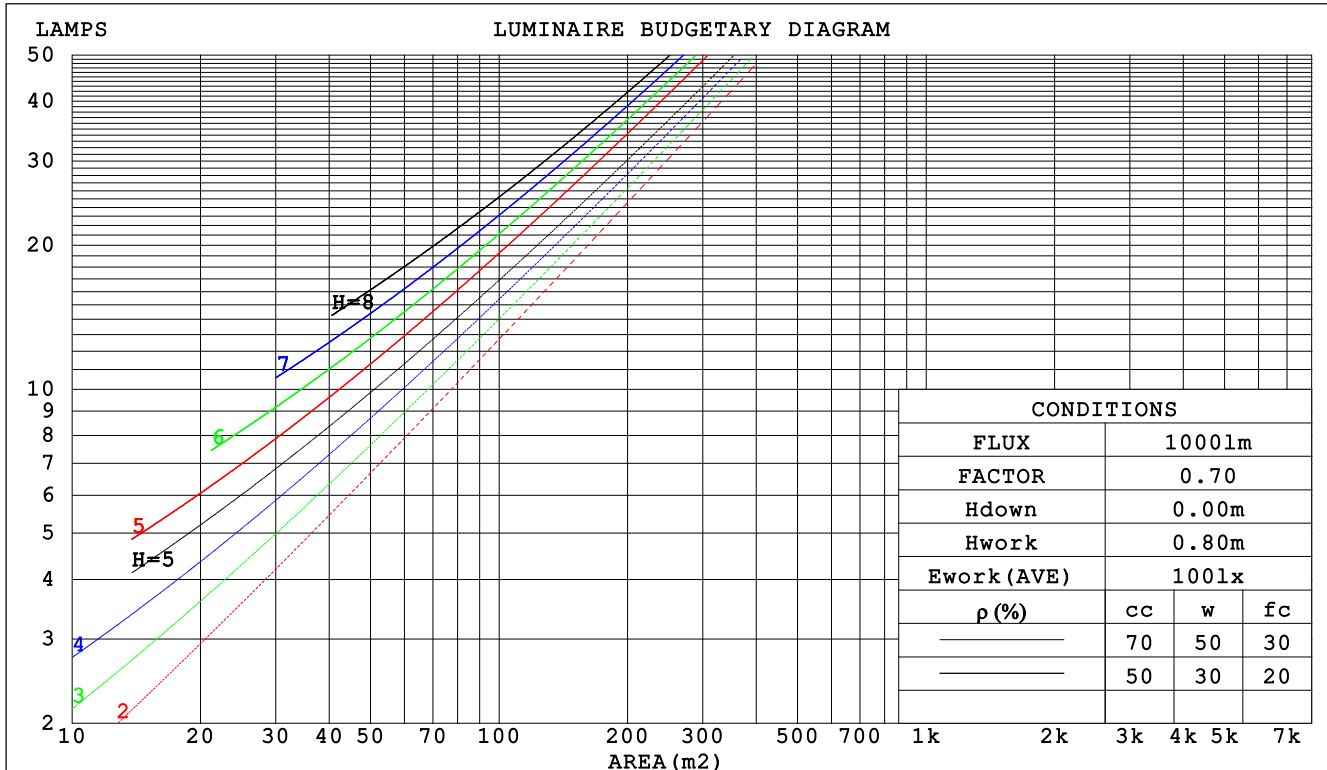
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2018-01-26

$\gamma$  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  
2#反射器, ADR9.5CC 98057

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.3V I:0.2623A P:31.37W PF:0.9941 Lamp Flux:2468.49x1 lm		
NAME: 30ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/80°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			Coefficients of Utilization(CU)												
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	.85	.81	.86	.83	.80	.84	.81	.78	.77
4.0	.86	.79	.75	.85	.79	.74	.82	.77	.73	.80	.76	.72	.78	.75	.72	.70
5.0	.79	.72	.68	.78	.72	.67	.76	.71	.67	.74	.70	.66	.73	.69	.65	.64
6.0	.73	.66	.61	.72	.66	.61	.71	.65	.61	.69	.64	.60	.68	.63	.60	.58
7.0	.68	.61	.56	.67	.60	.56	.65	.60	.55	.64	.59	.55	.63	.58	.55	.53
8.0	.63	.56	.51	.62	.56	.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  
2#反射器, ADR9.5CC 98057

## WEC AND CCEC

Test:U:120.3V I:0.2623A P:31.37W PF:0.9941 Lamp Flux:2468.49x1 lm		
NAME: 30ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/80°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	.195	.111	.035	.188	.107	.034	.175	.101	.032	.164	.094	.030	.153	.089	.029		
2.0	.189	.104	.032	.184	.101	.031	.173	.096	.030	.163	.091	.029	.154	.087	.027		
3.0	.182	.097	.029	.177	.095	.029	.168	.091	.028	.159	.087	.027	.151	.084	.026		
4.0	.175	.091	.027	.170	.089	.026	.162	.086	.026	.155	.083	.025	.148	.080	.024		
5.0	.167	.085	.025	.164	.084	.024	.156	.081	.024	.150	.079	.024	.144	.077	.023		
6.0	.160	.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	.144	.071	.020	.139	.070	.020	.134	.068	.020	.130	.067	.019		
9.0	.141	.068	.019	.139	.068	.019	.134	.066	.019	.130	.065	.019	.125	.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	.093	.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	.047	.035	.025	.015	.011	.008	
5.0	.131	.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	.053	.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  
2#反射器, ADR9.5CC 98057

## UGR(Unified Glare Rating) Table

Test:U:120.3V I:0.2623A P:31.37W PF:0.9941 Lamp Flux:2468.49x1 lm										
NAME: 30ADL/80°lens 120-277V					TYPE:LED			WEIGHT:		
SPEC.:30ADL/80°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	12.8	13.9	13.0	14.1	14.2	12.4	13.5	12.6	13.7	13.9
3H	12.6	13.6	12.9	13.8	14.0	12.2	13.2	12.5	13.4	13.6
4H	12.5	13.4	12.8	13.7	13.9	12.1	13.1	12.4	13.3	13.5
6H	12.4	13.3	12.7	13.5	13.8	12.0	12.9	12.3	13.2	13.4
8H	12.4	13.2	12.7	13.5	13.7	12.0	12.8	12.3	13.1	13.4
12H	12.3	13.1	12.7	13.4	13.7	11.9	12.7	12.3	13.0	13.3
4H 2H	12.5	13.4	12.8	13.7	13.9	12.1	13.1	12.4	13.3	13.5
3H	12.3	13.1	12.7	13.4	13.7	11.9	12.7	12.3	13.0	13.3
4H	12.2	13.0	12.6	13.3	13.6	11.8	12.6	12.2	12.9	13.2
6H	12.1	12.8	12.5	13.1	13.5	11.8	12.4	12.1	12.7	13.1
8H	12.1	12.7	12.5	13.0	13.4	11.7	12.3	12.1	12.6	13.0
12H	12.0	12.6	12.5	12.9	13.3	11.7	12.2	12.1	12.6	13.0
8H 4H	12.1	12.7	12.5	13.0	13.4	11.7	12.3	12.1	12.6	13.0
6H	12.0	12.5	12.4	12.9	13.3	11.6	12.1	12.0	12.5	12.9
8H	11.9	12.4	12.4	12.8	13.2	11.6	12.0	12.0	12.4	12.8
12H	11.9	12.2	12.4	12.7	13.2	11.5	11.9	12.0	12.3	12.8
12H 4H	12.0	12.6	12.5	12.9	13.3	11.7	12.2	12.1	12.6	13.0
6H	11.9	12.4	12.4	12.8	13.2	11.6	12.0	12.0	12.4	12.8
8H	11.9	12.2	12.4	12.7	13.2	11.5	11.9	12.0	12.3	12.8
Variations with the observer position at spacings:										
S = 1.0H	+ 3.2 / -20.5					+ 2.5 / -21.8				
1.5H	+ 5.9 / -19.2					+ 5.3 / -19.8				
2.0H	+10.9 / - 7.4					+ 5.7 / - 3.5				

CIE Pub.117 Corrected 2468 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  
2#反射器, ADR9.5CC 98057

## UTILIZATION FACTORS TABLE

Test:U:120.3V I:0.2623A P:31.37W PF:0.9941 Lamp Flux:2468.49x1 lm		
NAME: 30ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/80°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) $k(RI) \times RCR = 5$									
$k = 0.60$	85	78	74	84	78	74	83	77	74	70
0.80	93	86	82	92	86	82	91	86	82	78
1.00	98	92	88	97	91	88	95	91	87	83
1.25	102	97	93	101	96	93	99	95	92	88
1.50	105	100	97	104	99	96	102	98	95	90
2.00	108	104	100	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	111	108	105	110	106	104	106	104	102	95
4.00	113	111	108	111	109	107	108	106	104	97
5.00	115	112	110	113	110	109	109	107	106	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  
2#反射器, ADR9.5CC 98057

## ISOCANDELA DIAGRAM

Test:U:120.3V I:0.2623A P:31.37W PF:0.9941 Lamp Flux:2468.49x1 lm		
NAME: 30ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/80°lens 120-277V	DIM.:	SERIAL No.:02
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

2431.8 lm

%lum = 98.5%

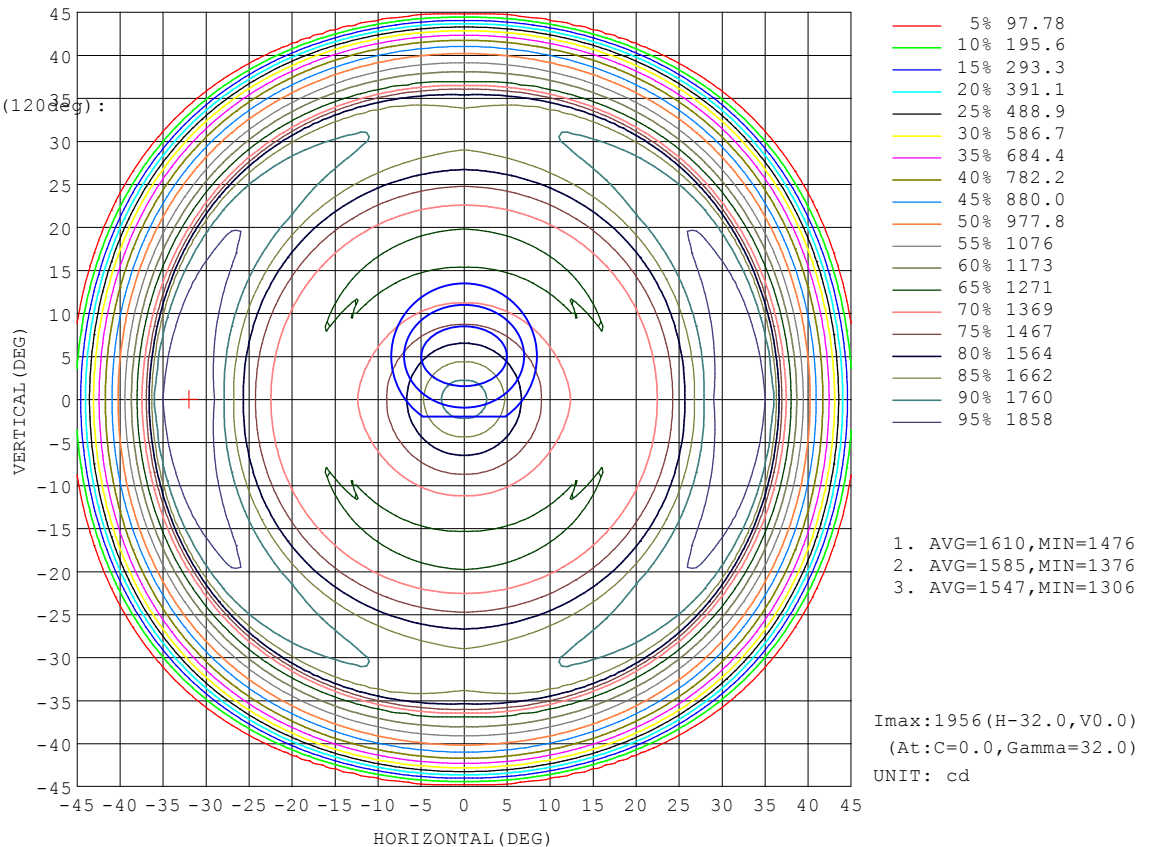
%lamp = 98.5%

Conical surface Flux(120deg):

2459.4 lm

%lum = 99.6%

%lamp = 99.6%

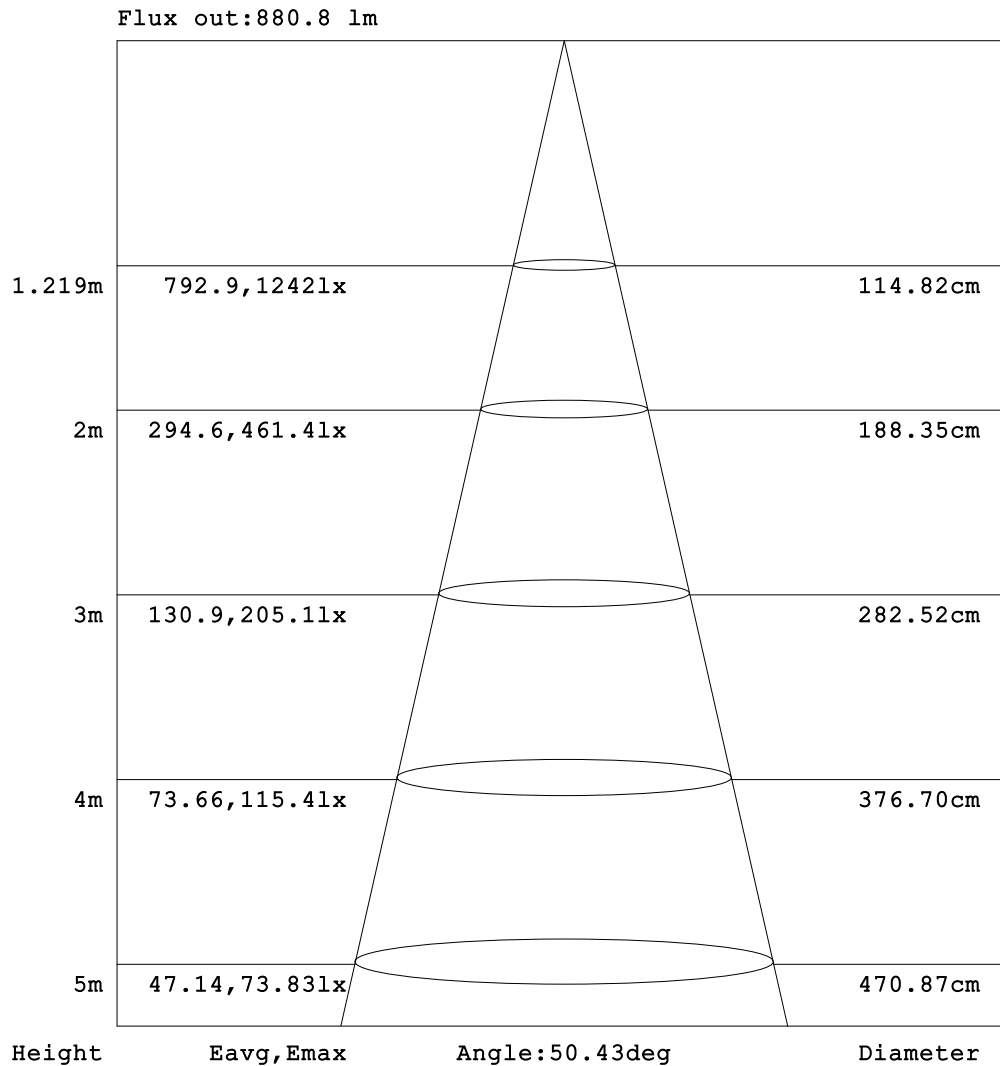


C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2018-01-26

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  
2#反射器, ADR9.5CC 98057

### AAI Figure

Test:U:120.3V I:0.2623A P:31.37W PF:0.9941 Lamp Flux:2468.49x1 lm		
NAME: 30ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/80°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.

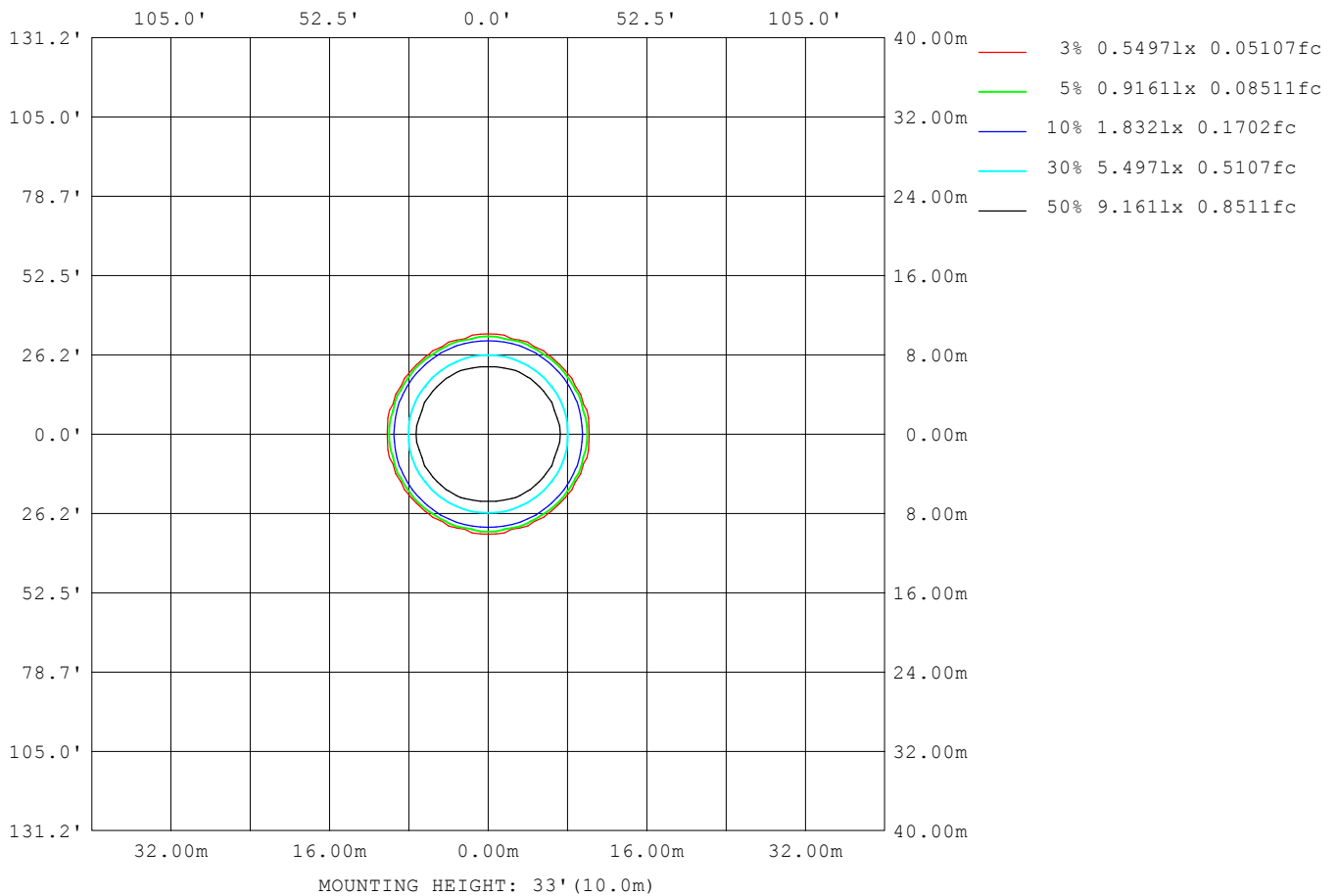
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2018-01-26

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  
2#反射器, ADR9.5CC 98057



## ISOLUX DIAGRAM

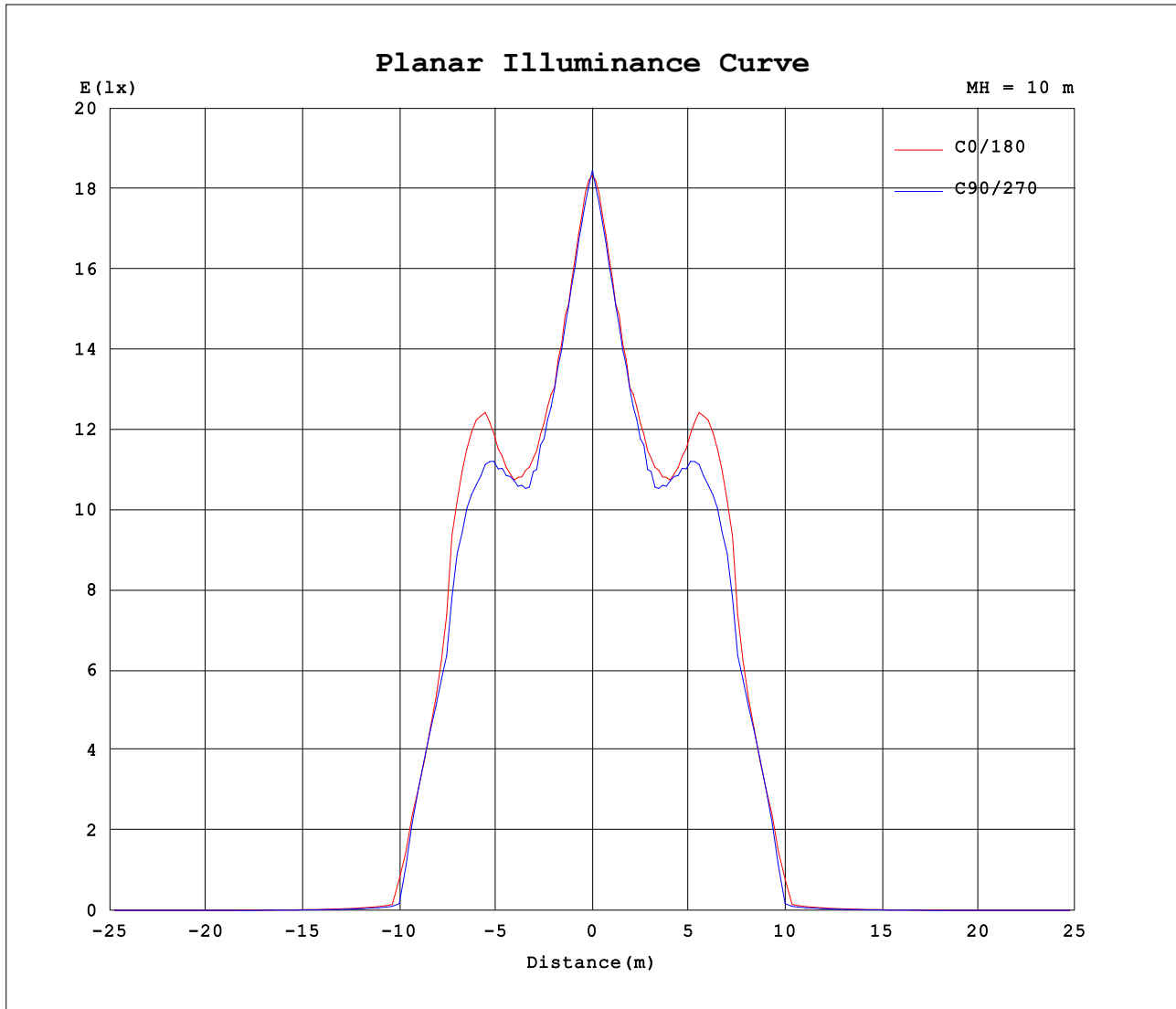
Test:U:120.3V I:0.2623A P:31.37W PF:0.9941 Lamp Flux:2468.49x1 lm		
NAME: 30ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/80°lens 120-277V	DIM.:	SERIAL No.:02
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:



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

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  
2#反射器, ADR9.5CC 98057

## 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  
 2#反射器, ADR9.5CC 98057

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.3V I:0.2623A P:31.37W PF:0.9941 Lamp Flux:2468.49x1 lm		
NAME: 30ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/80°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	1832	1846	1832	1846															
5	1649	1630	1649	1630															
10	1438	1422	1438	1422															
15	1318	1288	1318	1288															
20	1303	1278	1303	1278															
25	1522	1482	1522	1482															
30	1899	1670	1899	1670															
35	1859	1621	1859	1621															
40	1010	998	1010	998															
45	221	49.2	221	49.2															
50	25.4	18.4	25.4	18.4															
55	14.2	10.0	14.2	10.0															
60	8.41	5.81	8.41	5.81															
65	5.28	3.55	5.28	3.55															
70	3.50	2.30	3.50	2.30															
75	2.31	1.50	2.31	1.50															
80	1.40	0.86	1.40	0.86															
85	0.53	0.22	0.53	0.22															
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	0.04	0.00	0.04															
120	0.04	0.16	0.04	0.16															
125	0.19	0.31	0.19	0.31															
130	0.31	0.46	0.31	0.46															
135	0.42	0.59	0.42	0.59															
140	0.53	0.71	0.53	0.71															
145	0.65	0.81	0.65	0.81															
150	0.77	0.89	0.77	0.89															
155	0.87	0.95	0.87	0.95															
160	1.04	1.06	1.04	1.06															
165	1.19	1.24	1.19	1.24															
170	1.37	1.41	1.37	1.41															
175	1.50	1.53	1.50	1.53															
180	1.57	1.57	1.57	1.57															

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  
2#反射器, ADR9.5CC 98057