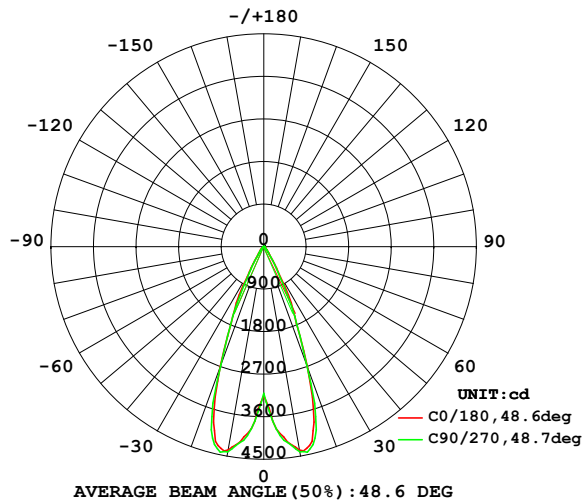


## LUMINAIRE PHOTOMETRIC TEST REPORT

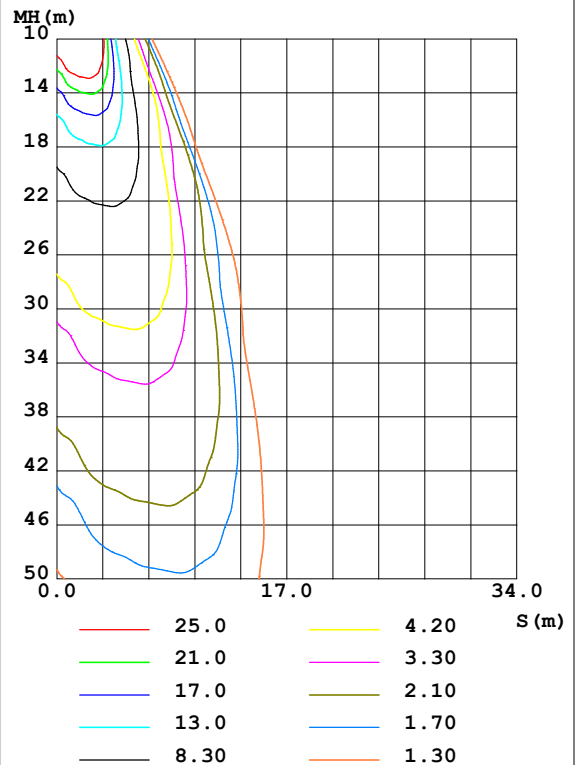
Test:U:120.3V I:0.2590A P:30.96W PF:0.9942 Lamp Flux:2388.96x1 lm		
NAME: 30ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/40°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 77.16 lm/W			
MODEL		I <sub>max</sub> (cd)	4447	S/MH (C0/180)	0.73
NOMINAL POWER (W)	30	LOR (%)	100.0	S/MH (C90/270)	0.70
RATED VOLTAGE (V)	120-277	TOTAL FLUX (lm)	2389.0	η UP, DN (C0-180)	0.0, 50.0
NOMINAL FLUX (lm)	2388.96	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.0
LAMPS INSIDE	1	η up (%)	0.1	CIBSE SHR NOM	0.00
TEST VOLTAGE (V)	120	η down (%)	99.9	CIBSE SHR MAX	1.00

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, ADR4CC 98038

### ZONAL FLUX DIAGRAM

#### ZONAL FLUX DIAGRAM:

$\gamma$	C0	C90	C180	C270					$\gamma$	$\Phi$ zone	$\Phi$ total	%lum
10	4364	4407	4364	4407					0- 10	390.8	390.8	16.4
20	2696	2664	2696	2664					10- 20	1084	1475	61.7
30	619.5	552.4	619.5	552.4					20- 30	649.8	2125	88.9
40	144.1	123.3	144.1	123.3					30- 40	172.6	2297	96.2
50	43.31	38.70	43.31	38.70					40- 50	63.53	2361	98.8
60	9.681	9.206	9.681	9.206					50- 60	18.53	2379	99.6
70	2.868	2.853	2.868	2.853					60- 70	5.367	2385	99.8
80	0.8317	0.7930	0.8317	0.7930					70- 80	1.791	2387	99.9
90	0	0	0	0					80- 90	0.2946	2387	99.9
100	0	0	0	0					90-100	0	2387	99.9
110	0	0	0	0					100-110	0	2387	99.9
120	0	0	0	0					110-120	0	2387	99.9
130	0.1965	0.2032	0.1965	0.2032					120-130	0.0436	2387	99.9
140	0.6019	0.6267	0.6019	0.6267					130-140	0.2995	2387	99.9
150	1.133	1.169	1.133	1.169					140-150	0.5476	2388	99.9
160	1.496	1.503	1.496	1.503					150-160	0.6231	2388	100
170	1.527	1.550	1.527	1.550					160-170	0.4328	2389	100
180	1.610	1.580	1.610	1.580					170-180	0.1483	2389	100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

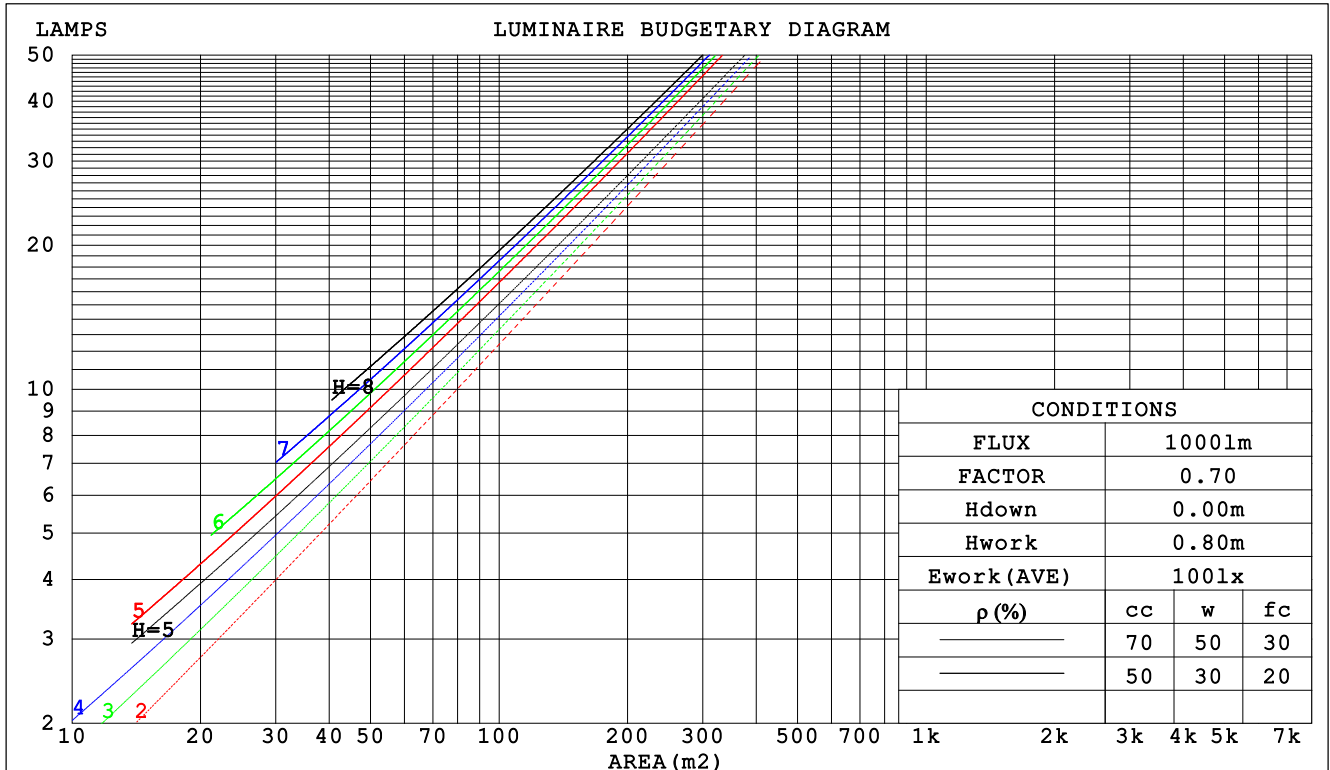
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2018-01-29

$\gamma$  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, ADR4CC 98038

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.3V I:0.2590A P:30.96W PF:0.9942 Lamp Flux:2388.96x1 lm		
NAME: 30ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/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	1.05	1.02	.99	1.04	1.00	.98	1.00	.98	.96	.98	.95	.94	.95	.93	.92	.90
3.0	.00	.95	.92	.98	.94	.91	.96	.92	.90	.93	.91	.88	.91	.89	.87	.86
4.0	.94	.90	.86	.93	.89	.86	.91	.88	.85	.89	.86	.84	.88	.85	.83	.81
5.0	.90	.85	.81	.89	.84	.81	.87	.83	.80	.86	.82	.79	.84	.81	.79	.77
6.0	.85	.80	.77	.85	.80	.77	.83	.79	.76	.82	.78	.76	.81	.78	.75	.74
7.0	.82	.77	.73	.81	.76	.73	.80	.75	.72	.79	.75	.72	.78	.74	.72	.70
8.0	.78	.73	.69	.77	.73	.69	.76	.72	.69	.76	.72	.69	.75	.71	.69	.67
9.0	.75	.70	.66	.74	.69	.66	.73	.69	.66	.73	.69	.66	.72	.68	.66	.64
10.0	.72	.67	.63	.71	.67	.63	.70	.66	.63	.70	.66	.63	.69	.65	.63	.62



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, ADR4CC 98038

## WEC AND CCEC

Test:U:120.3V I:0.2590A P:30.96W PF:0.9942 Lamp Flux:2388.96x1 lm		
NAME: 30ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/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	.157	.090	.028	.151	.086	.027	.138	.079	.025	.127	.073	.023	.116	.067	.022		
2.0	.148	.081	.025	.143	.079	.024	.132	.074	.023	.123	.069	.022	.114	.064	.020		
3.0	.140	.075	.022	.135	.073	.022	.127	.069	.021	.118	.065	.020	.111	.061	.019		
4.0	.133	.069	.020	.129	.067	.020	.121	.064	.019	.114	.061	.018	.108	.058	.018		
5.0	.126	.064	.019	.123	.063	.018	.116	.060	.018	.110	.058	.017	.104	.056	.017		
6.0	.120	.060	.017	.117	.059	.017	.111	.057	.017	.106	.055	.016	.101	.053	.016		
7.0	.115	.057	.016	.112	.056	.016	.107	.054	.016	.102	.052	.015	.098	.051	.015		
8.0	.110	.054	.015	.107	.053	.015	.103	.051	.015	.099	.050	.014	.095	.049	.014		
9.0	.105	.051	.014	.103	.050	.014	.099	.049	.014	.096	.048	.014	.092	.047	.014		
10.0	.101	.049	.013	.099	.048	.013	.096	.047	.013	.092	.046	.013	.089	.045	.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	.112	.112	.112	.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	.154	.133	.116	.132	.115	.100	.090	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.140	.114	.093	.120	.098	.081	.082	.068	.057	.048	.040	.033	.015	.013	.011	
4.0	.129	.099	.076	.111	.086	.066	.076	.060	.047	.044	.035	.028	.014	.011	.009	
5.0	.119	.087	.063	.102	.075	.055	.071	.053	.039	.041	.031	.023	.013	.010	.008	
6.0	.111	.078	.053	.096	.067	.046	.066	.047	.033	.038	.028	.020	.012	.009	.006	
7.0	.104	.070	.045	.090	.060	.040	.062	.042	.028	.036	.025	.017	.012	.008	.006	
8.0	.098	.063	.039	.085	.055	.034	.059	.038	.024	.034	.023	.014	.011	.007	.005	
9.0	.093	.058	.034	.080	.050	.030	.056	.035	.021	.032	.021	.013	.010	.007	.004	
10.0	.088	.053	.030	.076	.046	.026	.053	.033	.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, ADR4CC 98038

## UGR(Unified Glare Rating) Table

Test:U:120.3V I:0.2590A P:30.96W PF:0.9942 Lamp Flux:2388.96x1 lm										
NAME: 30ADL/40°lens 120-277V					TYPE:LED			WEIGHT:		
SPEC.:30ADL/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	1.4	2.3	1.7	2.4	2.6	1.0	1.8	1.3	2.0	2.2
3H	1.3	2.1	1.6	2.3	2.5	0.9	1.6	1.2	1.8	2.0
4H	1.2	1.9	1.5	2.2	2.4	0.8	1.5	1.1	1.8	2.0
6H	1.2	1.8	1.5	2.1	2.3	0.8	1.4	1.0	1.7	1.9
8H	1.1	1.8	1.4	2.0	2.3	0.7	1.4	1.0	1.6	1.9
12H	1.1	1.7	1.4	2.0	2.2	0.7	1.3	1.0	1.5	1.8
4H 2H	1.2	1.9	1.5	2.2	2.4	0.8	1.5	1.1	1.8	2.0
3H	1.1	1.7	1.4	2.0	2.3	0.7	1.3	1.0	1.6	1.9
4H	1.0	1.6	1.4	1.9	2.2	0.6	1.2	1.0	1.5	1.8
6H	0.9	1.4	1.3	1.8	2.1	0.5	1.0	0.9	1.4	1.7
8H	0.9	1.4	1.3	1.7	2.1	0.5	1.0	0.9	1.3	1.7
12H	0.8	1.3	1.3	1.6	2.0	0.4	0.9	0.9	1.2	1.6
8H 4H	0.9	1.3	1.3	1.7	2.1	0.5	0.9	0.9	1.3	1.7
6H	0.8	1.2	1.2	1.6	2.0	0.4	0.8	0.8	1.2	1.6
8H	0.8	1.1	1.2	1.5	1.9	0.4	0.7	0.8	1.1	1.5
12H	0.7	1.0	1.2	1.4	1.9	0.3	0.6	0.8	1.0	1.5
12H 4H	0.8	1.3	1.3	1.6	2.0	0.4	0.9	0.8	1.2	1.6
6H	0.7	1.1	1.2	1.5	1.9	0.3	0.7	0.8	1.1	1.5
8H	0.7	1.0	1.2	1.4	1.9	0.3	0.6	0.8	1.0	1.5
Variations with the observer position at spacings:										
S = 1.0H	+ 2.6 / - 7.0					+ 2.3 / - 6.6				
1.5H	+ 3.9 / - 5.7					+ 3.1 / - 5.2				
2.0H	+ 5.7 / - 6.3					+ 5.2 / - 5.9				

CIE Pub.117 Corrected 2389 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.0)

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, ADR4CC 98038

## UTILIZATION FACTORS TABLE

Test:U:120.3V I:0.2590A P:30.96W PF:0.9942 Lamp Flux:2388.96x1 lm		
NAME: 30ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/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) $k(RI) \times RCR = 5$									
$k = 0.60$	89	83	80	89	83	79	88	83	79	76
0.80	96	91	87	96	91	87	95	90	87	83
1.00	100	95	92	100	95	92	98	95	91	87
1.25	104	99	96	103	99	96	101	98	95	91
1.50	107	102	99	106	102	99	103	100	98	93
2.00	109	105	102	108	104	102	105	102	100	95
2.50	111	107	104	109	106	103	106	104	102	96
3.00	112	109	106	110	108	105	107	105	103	97
4.00	114	112	109	112	110	108	109	107	105	98
5.00	115	113	112	113	111	110	109	108	107	99
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, 40°lens  
1#反射器, ADR4CC 98038

## ISOCANDELA DIAGRAM

Test:U:120.3V I:0.2590A P:30.96W PF:0.9942 Lamp Flux:2388.96x1 lm		
NAME: 30ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/40°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

2336.9 lm

%lum = 97.8%

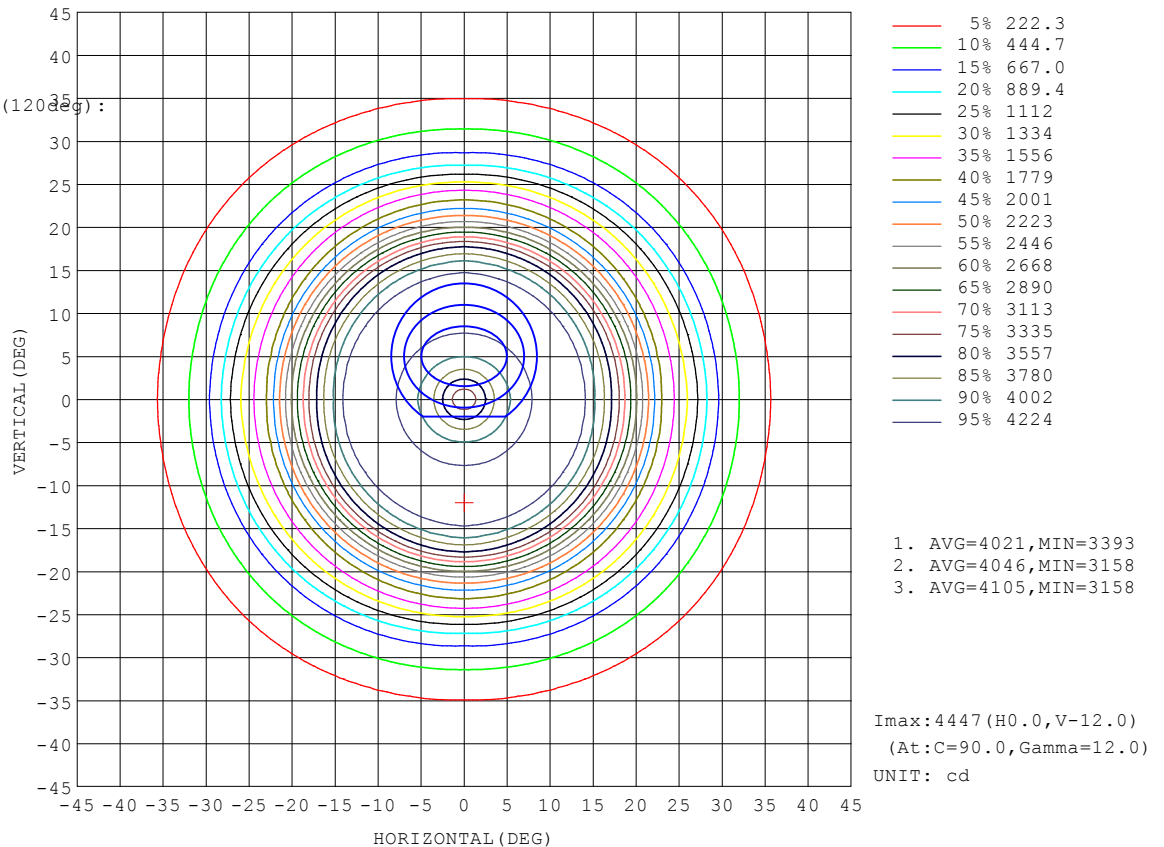
%lamp = 97.8%

Conical surface Flux(120deg):

2379.4 lm

%lum = 99.6%

%lamp = 99.6%

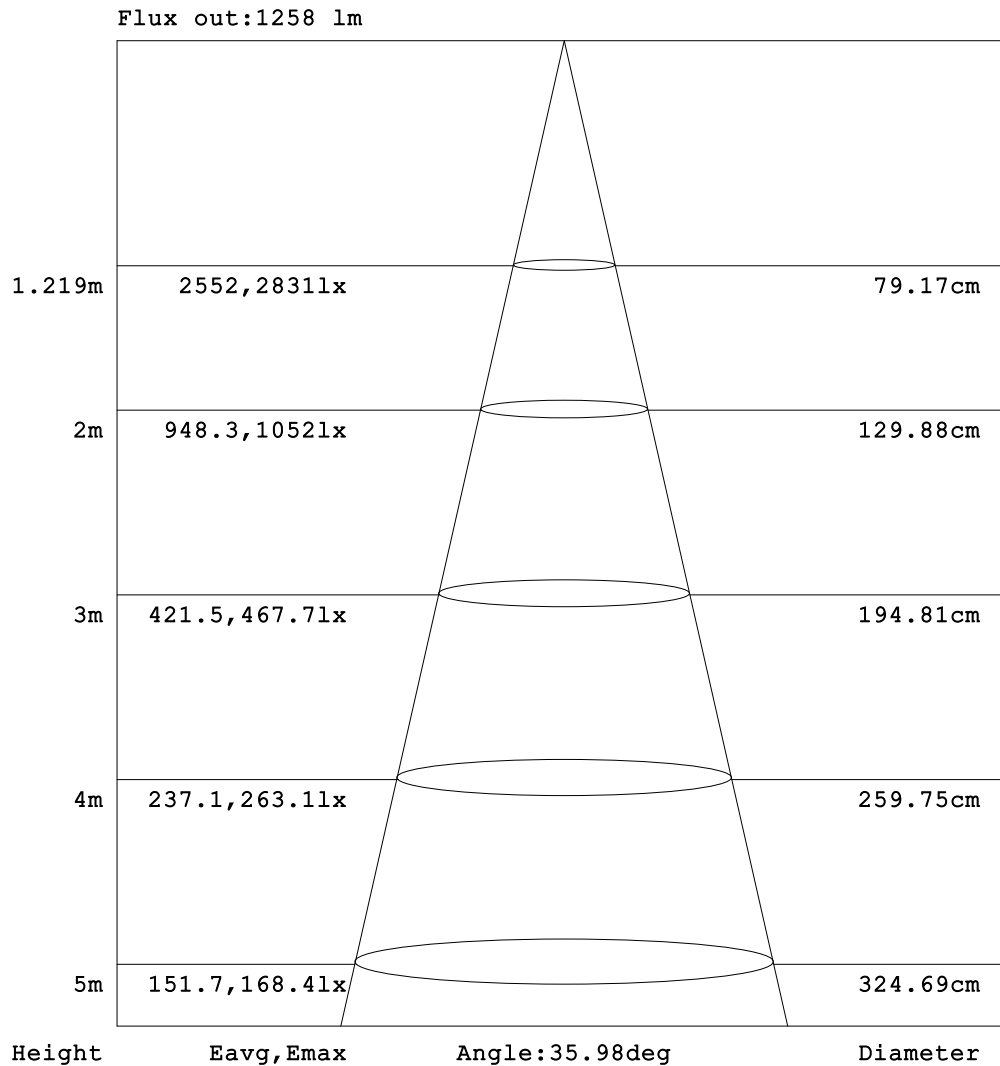


C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2018-01-29

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, ADR4CC 98038

### AAI Figure

Test:U:120.3V I:0.2590A P:30.96W PF:0.9942 Lamp Flux:2388.96x1 lm		
NAME: 30ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/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.

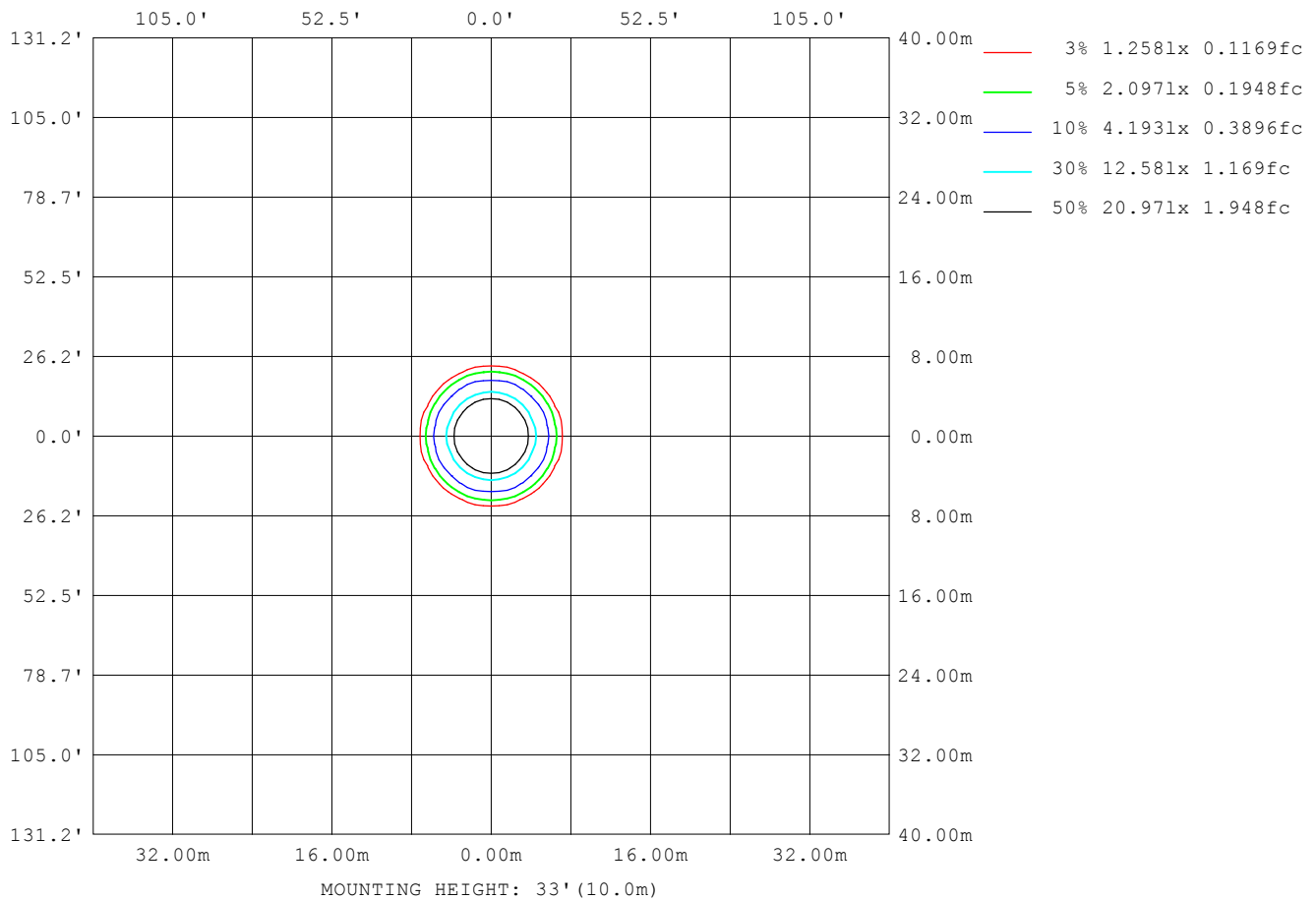
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2018-01-29

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, ADR4CC 98038



## ISOLUX DIAGRAM

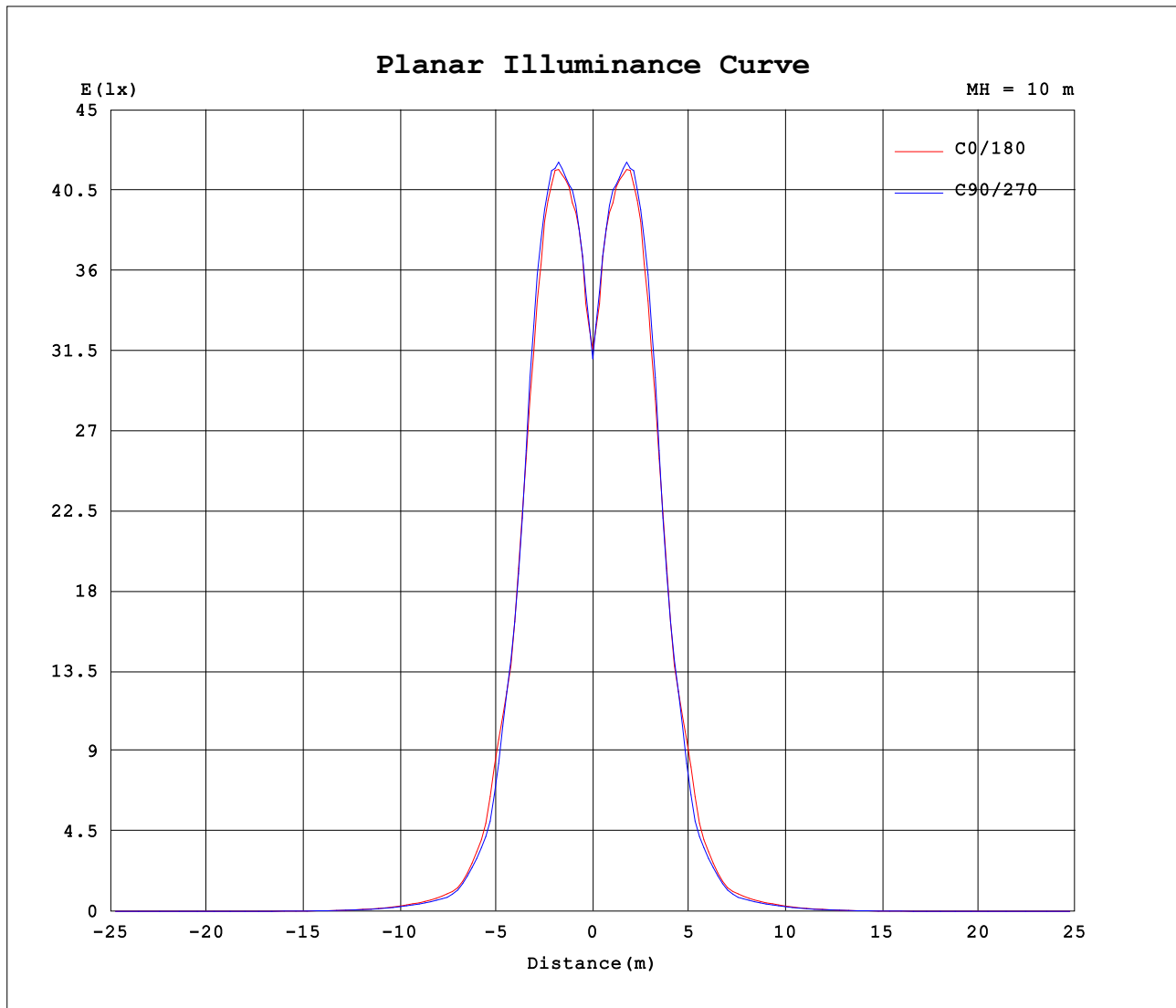
Test:U:120.3V I:0.2590A P:30.96W PF:0.9942 Lamp Flux:2388.96x1 lm		
NAME: 30ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/40°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:



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, 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

$\gamma$  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, ADR4CC 98038

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.3V I:0.2590A P:30.96W PF:0.9942 Lamp Flux:2388.96x1 lm		
NAME: 30ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/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	3158	3103	3158	3103															
5	3971	4011	3971	4011															
10	4364	4407	4364	4407															
15	4034	4190	4034	4190															
20	2696	2664	2696	2664															
25	1472	1400	1472	1400															
30	619	552	619	552															
35	242	219	242	219															
40	144	123	144	123															
45	88.2	75.5	88.2	75.5															
50	43.3	38.7	43.3	38.7															
55	19.6	18.2	19.6	18.2															
60	9.68	9.21	9.68	9.21															
65	5.14	5.03	5.14	5.03															
70	2.87	2.85	2.87	2.85															
75	1.64	1.62	1.64	1.62															
80	0.83	0.79	0.83	0.79															
85	0.25	0.18	0.25	0.18															
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	0.04	0.00	0.04															
130	0.20	0.20	0.20	0.20															
135	0.38	0.39	0.38	0.39															
140	0.60	0.63	0.60	0.63															
145	0.85	0.89	0.85	0.89															
150	1.13	1.17	1.13	1.17															
155	1.36	1.39	1.36	1.39															
160	1.50	1.50	1.50	1.50															
165	1.54	1.53	1.54	1.53															
170	1.53	1.55	1.53	1.55															
175	1.56	1.56	1.56	1.56															
180	1.61	1.58	1.61	1.58															

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, ADR4CC 98038