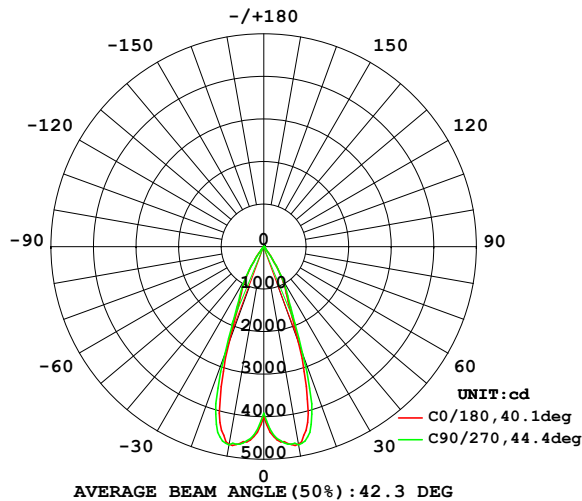


LUMINAIRE PHOTOMETRIC TEST REPORT

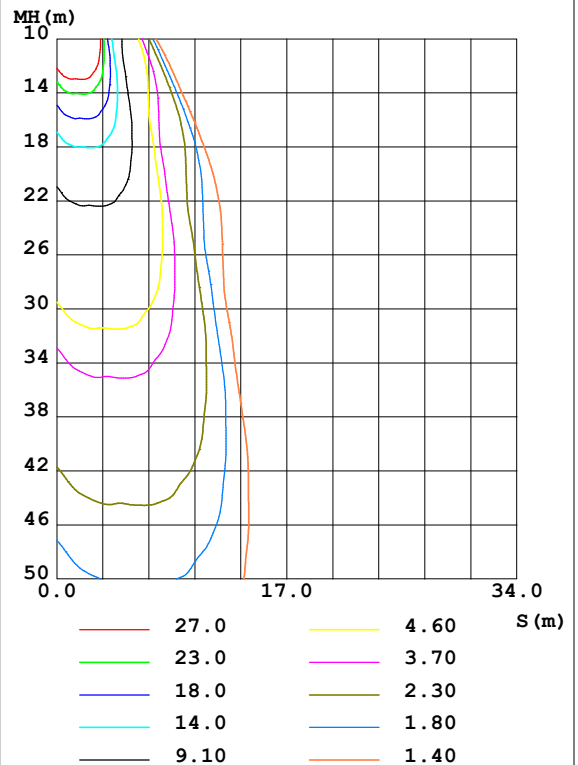
Test:U:120.4V I:0.2620A P:31.36W PF:0.9941 Lamp Flux:2460.51x1 lm		
NAME: 30ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/40°lens 120-277V	DIM.:	SERIAL No.:02
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 78.47 lm/W			
MODEL		I _{max} (cd)	4732	S/MH (C0/180)	0.65
NOMINAL POWER (W)	30	LOR (%)	100.0	S/MH (C90/270)	0.68
RATED VOLTAGE (V)	120-277	TOTAL FLUX (lm)	2460.5	η UP, DN (C0-180)	0.0, 50.0
NOMINAL FLUX (lm)	2460.51	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.0
LAMPS INSIDE	1	η up (%)	0.1	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	120	η down (%)	99.9	CIBSE SHR MAX	0.55

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, 40°lens
2#反射器, ADR9.5CC 98057

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum
10	4713	4732	4713	4732					0- 10	440.9	440.9	17.9
20	2388	2678	2388	2678					10- 20	1095	1536	62.4
30	865.5	891.2	865.5	891.2					20- 30	661.2	2197	89.3
40	81.80	85.95	81.80	85.95					30- 40	235.1	2433	98.9
50	5.640	6.615	5.640	6.615					40- 50	20.32	2453	99.7
60	1.978	2.454	1.978	2.454					50- 60	3.375	2456	99.8
70	0.7575	0.9719	0.7575	0.9719					60- 70	1.422	2458	99.9
80	0.1483	0.2086	0.1483	0.2086					70- 80	0.5232	2458	99.9
90	0	0	0	0					80- 90	0.0334	2458	99.9
100	0	0	0	0					90-100	0	2458	99.9
110	0	0	0	0					100-110	0	2458	99.9
120	0	0	0	0					110-120	0	2458	99.9
130	0.2272	0.2038	0.2272	0.2038					120-130	0.0532	2458	99.9
140	0.6954	0.6594	0.6954	0.6594					130-140	0.3343	2459	99.9
150	1.255	1.207	1.255	1.207					140-150	0.5937	2459	99.9
160	1.570	1.570	1.570	1.570					150-160	0.6573	2460	100
170	1.650	1.668	1.650	1.668					160-170	0.4580	2460	100
180	1.711	1.680	1.711	1.680					170-180	0.1598	2461	100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

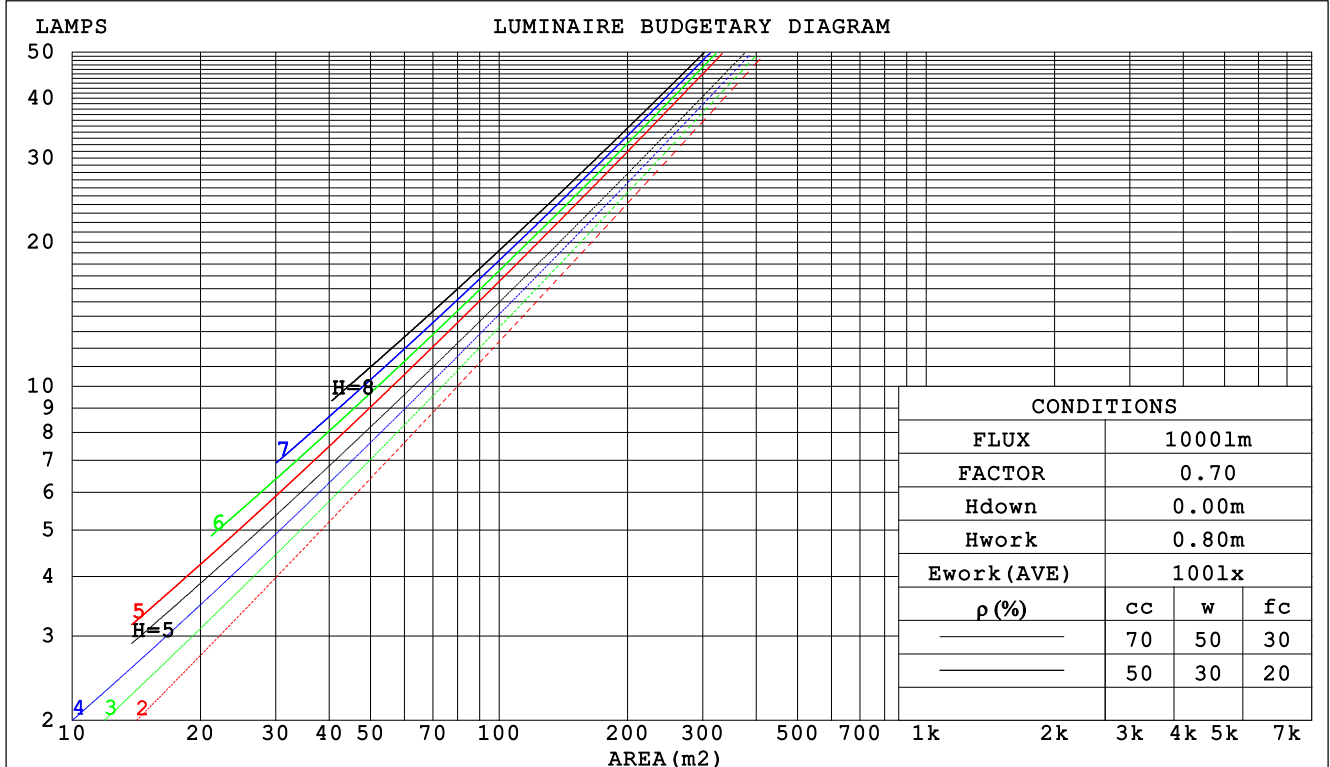
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Aaron
Test Date:2018-01-26

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
2#反射器, ADR9.5CC 98057

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.4V I:0.2620A P:31.36W PF:0.9941 Lamp Flux:2460.51x1 lm		
NAME: 30ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/40°lens 120-277V	DIM.:	SERIAL No.:02
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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:2018-01-26

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, 40°lens
2#反射器, ADR9.5CC 98057

WEC AND CCEC

Test:U:120.4V I:0.2620A P:31.36W PF:0.9941 Lamp Flux:2460.51x1 lm		
NAME: 30ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/40°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	.154	.088	.028	.147	.084	.027	.135	.077	.025	.123	.071	.023	.113	.065	.021		
2.0	.145	.079	.024	.139	.077	.024	.129	.072	.022	.119	.067	.021	.110	.062	.020		
3.0	.137	.073	.022	.132	.071	.021	.123	.067	.020	.115	.063	.019	.108	.060	.018		
4.0	.130	.067	.020	.126	.066	.019	.118	.063	.019	.111	.060	.018	.105	.057	.017		
5.0	.123	.063	.018	.120	.061	.018	.113	.059	.017	.107	.057	.017	.102	.054	.016		
6.0	.117	.059	.017	.114	.058	.017	.109	.056	.016	.104	.054	.016	.099	.052	.015		
7.0	.112	.055	.016	.110	.055	.016	.105	.053	.015	.100	.051	.015	.096	.050	.015		
8.0	.108	.053	.015	.105	.052	.015	.101	.050	.014	.097	.049	.014	.093	.048	.014		
9.0	.103	.050	.014	.101	.049	.014	.097	.048	.014	.094	.047	.013	.090	.046	.013		
10.0	.099	.048	.013	.097	.047	.013	.094	.046	.013	.091	.045	.013	.087	.044	.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	.153	.133	.116	.131	.115	.101	.090	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.140	.114	.094	.120	.098	.081	.082	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.128	.099	.077	.110	.086	.067	.076	.060	.047	.044	.035	.028	.014	.011	.009	
5.0	.118	.087	.064	.102	.075	.056	.070	.053	.039	.041	.031	.023	.013	.010	.008	
6.0	.110	.077	.054	.095	.067	.047	.065	.047	.033	.038	.028	.020	.012	.009	.006	
7.0	.103	.070	.046	.089	.060	.040	.061	.042	.028	.036	.025	.017	.012	.008	.006	
8.0	.097	.063	.039	.084	.055	.034	.058	.038	.024	.034	.023	.015	.011	.007	.005	
9.0	.092	.058	.034	.079	.050	.030	.055	.035	.021	.032	.021	.013	.010	.007	.004	
10.0	.088	.053	.030	.076	.046	.026	.052	.032	.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:2018-01-26

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, 40°lens
2#反射器, ADR9.5CC 98057

UGR(Unified Glare Rating) Table

Test:U:120.4V I:0.2620A P:31.36W PF:0.9941 Lamp Flux:2460.51x1 lm										
NAME: 30ADL/40°lens 120-277V					TYPE:LED			WEIGHT:		
SPEC.:30ADL/40°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	2.0	2.7	2.2	2.9	3.1	2.2	3.0	2.4	3.1	3.3
3H	1.8	2.5	2.1	2.7	2.9	2.0	2.7	2.3	2.9	3.1
4H	1.7	2.4	2.0	2.6	2.8	1.9	2.6	2.2	2.8	3.0
6H	1.6	2.3	1.9	2.5	2.8	1.8	2.5	2.1	2.7	3.0
8H	1.6	2.2	1.9	2.5	2.7	1.8	2.4	2.1	2.7	2.9
12H	1.6	2.1	1.9	2.4	2.7	1.8	2.3	2.1	2.6	2.9
4H 2H	1.7	2.4	2.0	2.6	2.8	1.9	2.6	2.2	2.8	3.0
3H	1.6	2.1	1.9	2.4	2.7	1.8	2.4	2.1	2.6	2.9
4H	1.5	2.0	1.8	2.3	2.6	1.7	2.2	2.0	2.5	2.8
6H	1.4	1.8	1.7	2.2	2.5	1.6	2.0	1.9	2.4	2.7
8H	1.3	1.7	1.7	2.1	2.5	1.5	2.0	1.9	2.3	2.7
12H	1.3	1.7	1.7	2.0	2.4	1.5	1.9	1.9	2.2	2.6
8H 4H	1.3	1.7	1.7	2.1	2.5	1.5	2.0	1.9	2.3	2.7
6H	1.2	1.6	1.6	2.0	2.4	1.4	1.8	1.8	2.2	2.6
8H	1.1	1.5	1.6	1.9	2.3	1.3	1.7	1.8	2.1	2.5
12H	1.1	1.4	1.5	1.8	2.3	1.3	1.6	1.8	2.0	2.5
12H 4H	1.3	1.7	1.7	2.0	2.4	1.5	1.9	1.9	2.2	2.6
6H	1.1	1.5	1.6	1.9	2.3	1.3	1.7	1.8	2.1	2.5
8H	1.1	1.4	1.5	1.8	2.3	1.3	1.6	1.8	2.0	2.5
Variations with the observer position at spacings:										
S = 1.0H	+ 5.5 / -15.0					+ 4.7 / -13.0				
1.5H	+ 8.2 / -13.0					+ 7.3 / -11.5				
2.0H	+ 6.7 / - 4.0					+ 6.8 / - 4.2				

CIE Pub.117 Corrected 2461 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, 40°lens
2#反射器, ADR9.5CC 98057

UTILIZATION FACTORS TABLE

Test:U:120.4V I:0.2620A P:31.36W PF:0.9941 Lamp Flux:2460.51x1 lm		
NAME: 30ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/40°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) $k(RI) \times RCR = 5$									
$k = 0.60$	91	85	82	90	85	82	90	85	82	78
0.80	98	93	89	97	92	89	96	92	89	86
1.00	102	97	93	101	96	93	99	96	93	89
1.25	105	101	97	104	100	97	102	99	96	92
1.50	108	103	100	106	103	100	104	101	99	95
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	107	104	107	104	102	97
3.00	113	110	107	111	108	106	108	105	104	98
4.00	114	112	110	112	110	109	109	107	106	99
5.00	116	114	112	114	112	110	110	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:2018-01-26

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, 40°lens
2#反射器, ADR9.5CC 98057

ISOCANDELA DIAGRAM

Test:U:120.4V I:0.2620A P:31.36W PF:0.9941 Lamp Flux:2460.51x1 lm		
NAME: 30ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/40°lens 120-277V	DIM.:	SERIAL No.:02
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

2449 lm

%lum = 99.5%

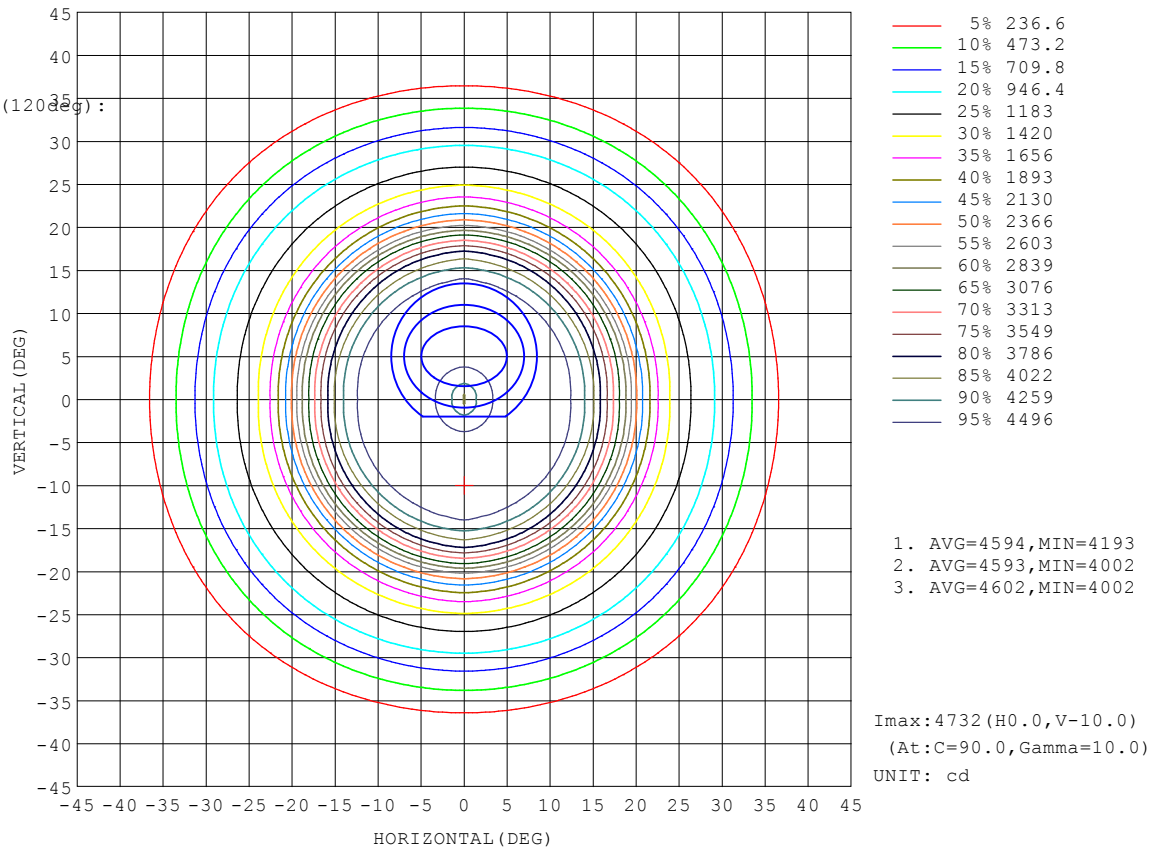
%lamp = 99.5%

Conical surface Flux(120deg):

2456.3 lm

%lum = 99.8%

%lamp = 99.8%

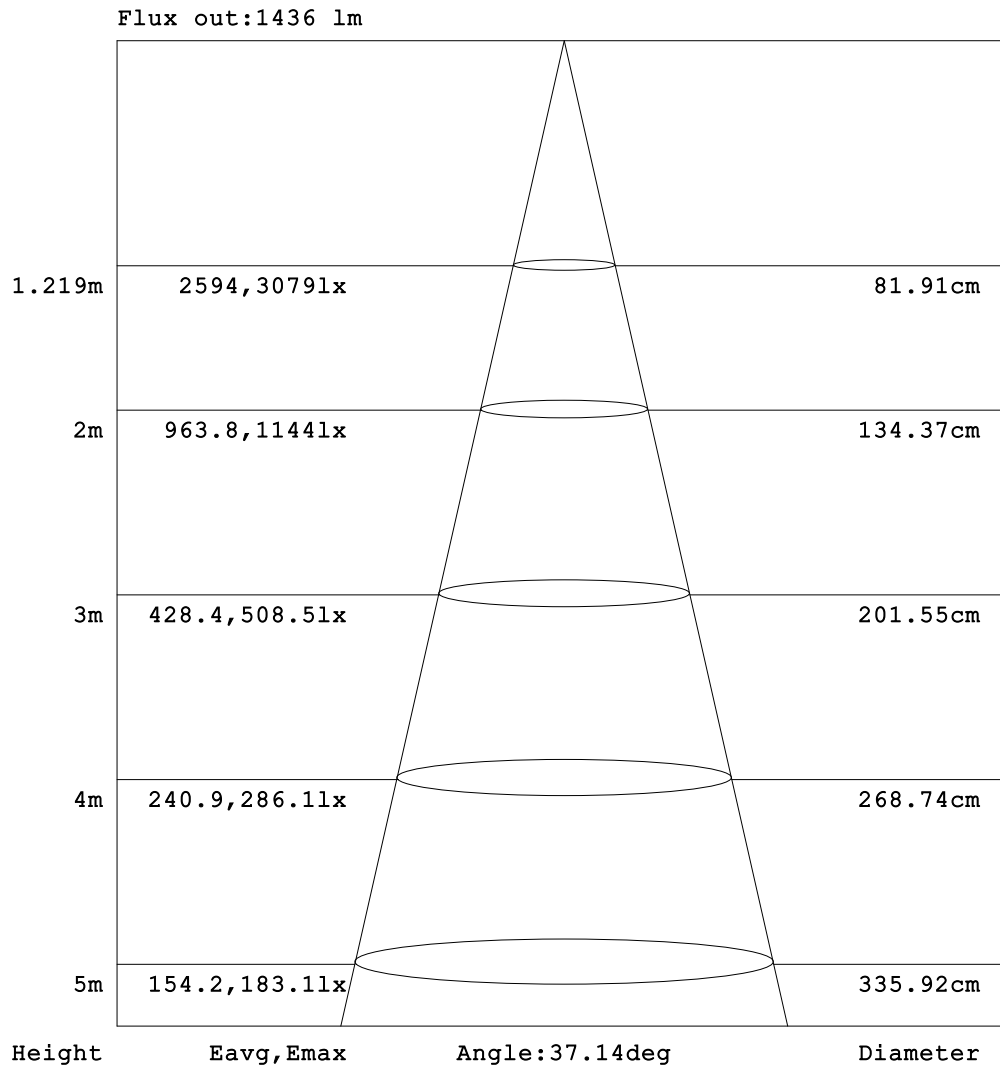


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Aaron
Test Date:2018-01-26

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, 40°lens
2#反射器, ADR9.5CC 98057

AAI Figure

Test:U:120.4V I:0.2620A P:31.36W PF:0.9941 Lamp Flux:2460.51x1 lm		
NAME: 30ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/40°lens 120-277V	DIM.:	SERIAL No.:02
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:



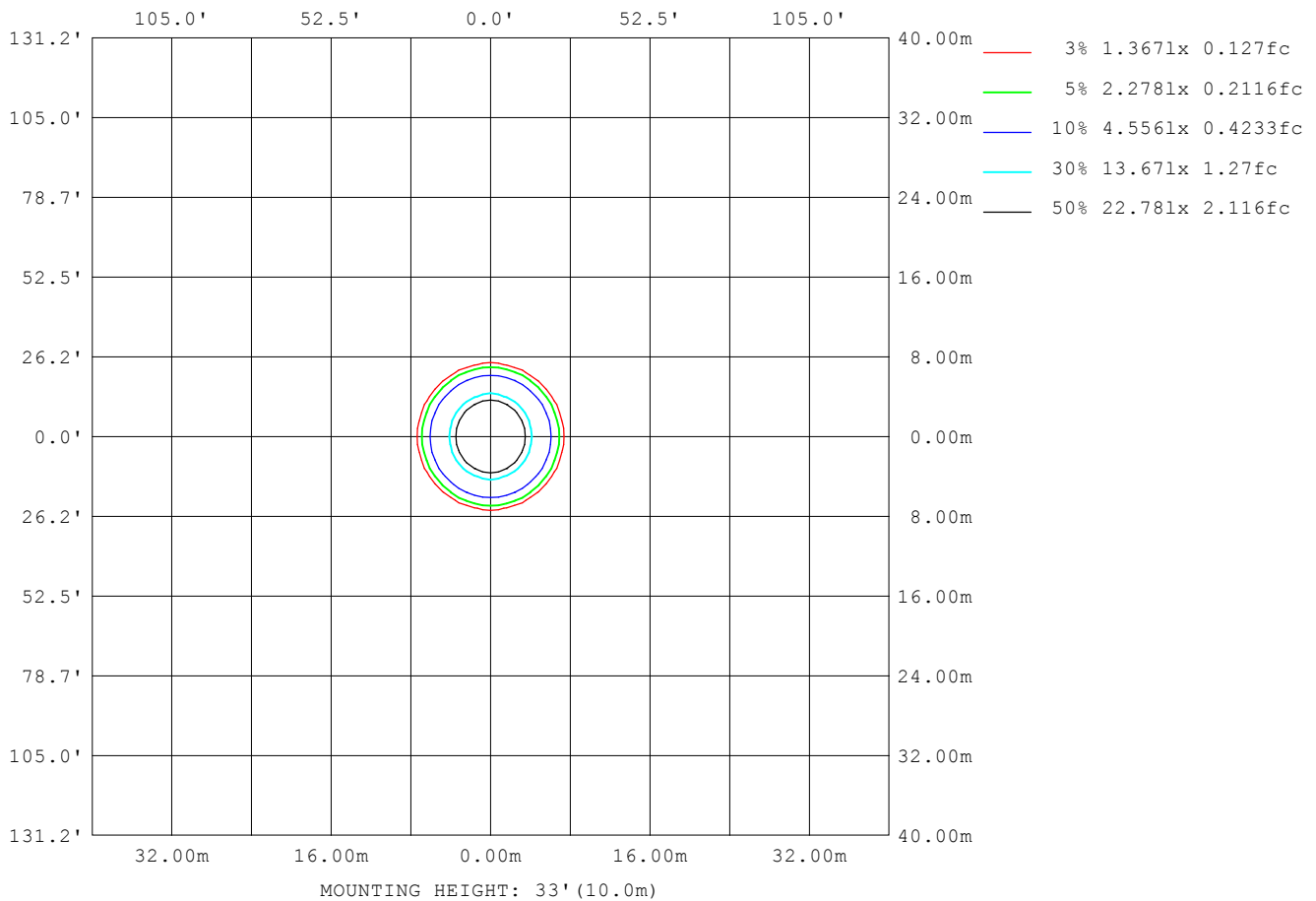
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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, 40°lens
2#反射器, ADR9.5CC 98057

ISOLUX DIAGRAM

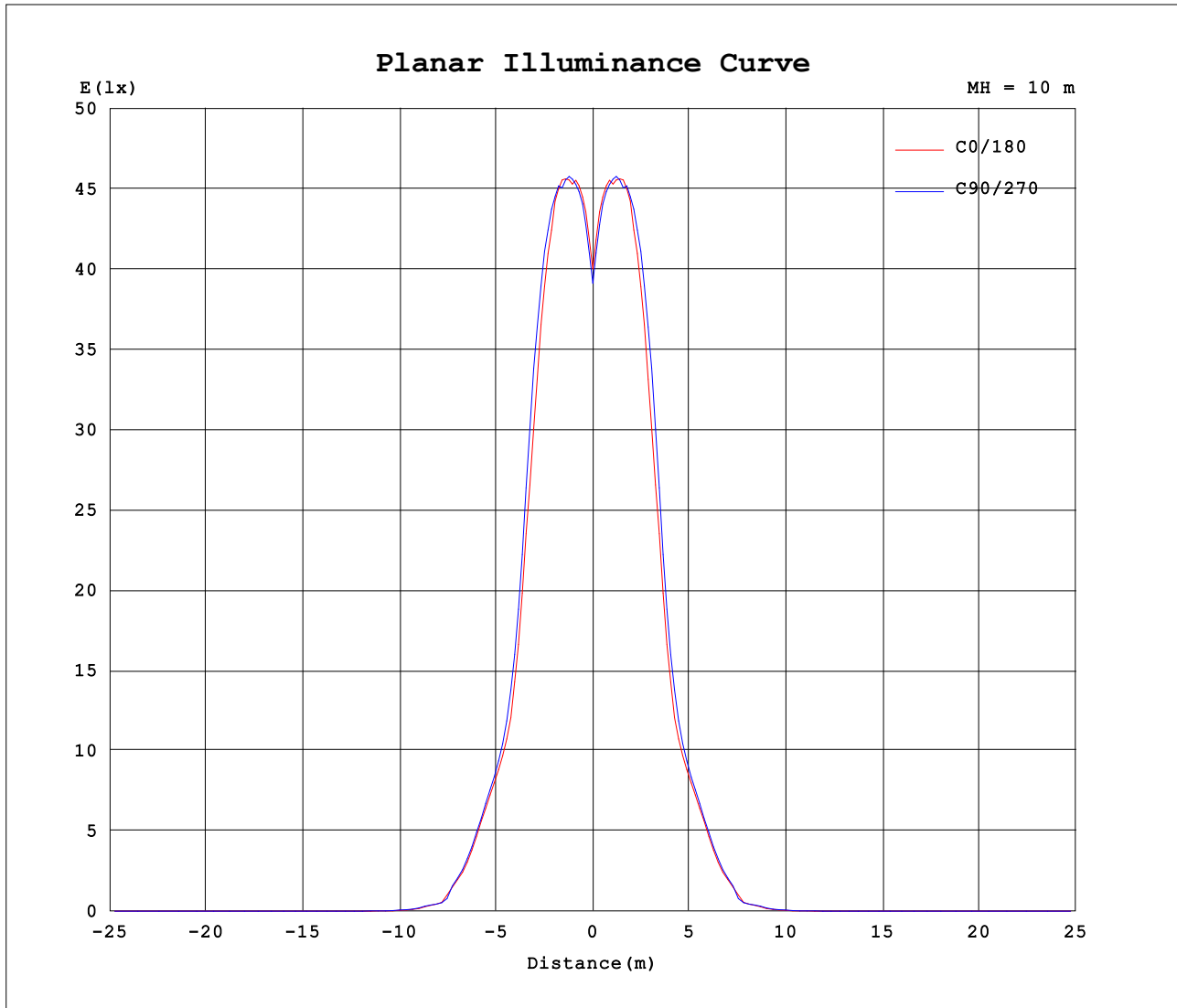
Test:U:120.4V I:0.2620A P:31.36W PF:0.9941 Lamp Flux:2460.51x1 lm		
NAME: 30ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/40°lens 120-277V	DIM.:	SERIAL No.:02
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:



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, 40°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

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
 2#反射器, ADR9.5CC 98057

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.4V I:0.2620A P:31.36W PF:0.9941 Lamp Flux:2460.51x1 lm		
NAME: 30ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/40°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	4002	3912	4002	3912															
5	4607	4581	4607	4581															
10	4713	4732	4713	4732															
15	4054	4324	4054	4324															
20	2388	2678	2388	2678															
25	1302	1402	1302	1402															
30	865	891	865	891															
35	360	378	360	378															
40	81.8	86.0	81.8	86.0															
45	17.8	20.9	17.8	20.9															
50	5.64	6.61	5.64	6.61															
55	3.25	3.97	3.25	3.97															
60	1.98	2.45	1.98	2.45															
65	1.23	1.56	1.23	1.56															
70	0.76	0.97	0.76	0.97															
75	0.43	0.55	0.43	0.55															
80	0.15	0.21	0.15	0.21															
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	0.03	0.03	0.03	0.03															
130	0.23	0.20	0.23	0.20															
135	0.47	0.41	0.47	0.41															
140	0.70	0.66	0.70	0.66															
145	0.98	0.93	0.98	0.93															
150	1.25	1.21	1.25	1.21															
155	1.46	1.44	1.46	1.44															
160	1.57	1.57	1.57	1.57															
165	1.62	1.63	1.62	1.63															
170	1.65	1.67	1.65	1.67															
175	1.69	1.68	1.69	1.68															
180	1.71	1.68	1.71	1.68															

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, 40°lens
2#反射器, ADR9.5CC 98057