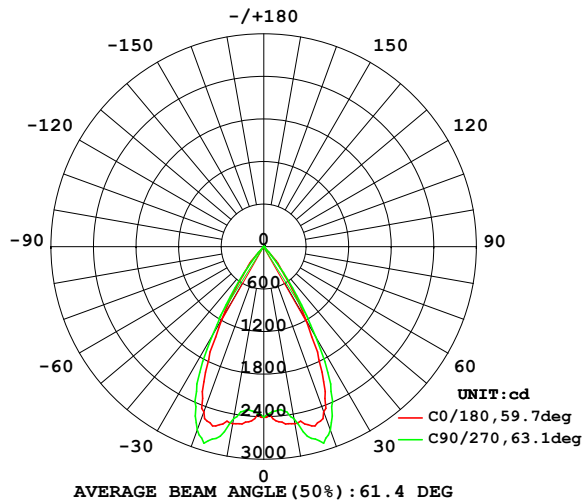


LUMINAIRE PHOTOMETRIC TEST REPORT

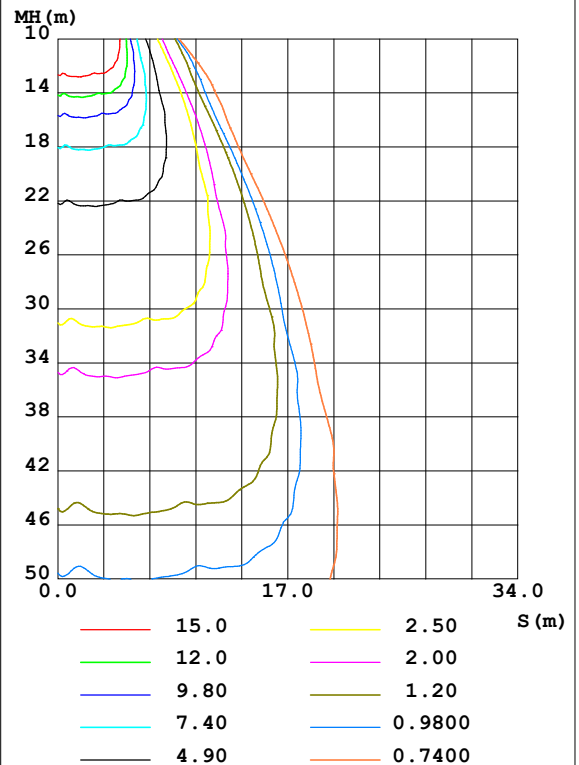
Test:U:120.4V I:0.2590A P:30.99W PF:0.9941 Lamp Flux:2409.64x1 lm		
NAME: 30ADL/60°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/60°lens 120-277V	DIM.:	SERIAL No.:02
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 77.74 lm/W			
MODEL		I _{max} (cd)	2900	S/MH (C0/180)	0.88
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH (C90/270)	0.91
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	2409.6	η UP,DN(C0-180)	0.0,50.0
NOMINAL FLUX(lm)	2409.64	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	0.65

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, 60°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	2535	2463	2535	2463					0- 10	232.0	232.0	9.63
20	2478	2751	2478	2751					10- 20	757.7	989.6	41.1
30	1185	1468	1185	1468					20- 30	932.6	1922	79.8
40	310.8	216.8	310.8	216.8					30- 40	429.5	2352	97.6
50	8.404	8.420	8.404	8.420					40- 50	48.63	2400	99.6
60	2.843	3.133	2.843	3.133					50- 60	4.590	2405	99.8
70	1.090	1.266	1.090	1.266					60- 70	1.919	2407	99.9
80	0.2658	0.3012	0.2658	0.3012					70- 80	0.7287	2408	99.9
90	0	0	0	0					80- 90	0.0657	2408	99.9
100	0	0	0	0					90-100	0	2408	99.9
110	0	0	0	0					100-110	0	2408	99.9
120	0.0123	0	0.0123	0					110-120	0.0003	2408	99.9
130	0.3198	0.2400	0.3198	0.2400					120-130	0.1144	2408	99.9
140	0.6763	0.5845	0.6763	0.5845					130-140	0.3501	2408	99.9
150	1.052	0.9355	1.052	0.9355					140-150	0.5045	2409	100
160	1.292	1.268	1.292	1.268					150-160	0.5224	2409	100
170	1.562	1.557	1.562	1.557					160-170	0.4003	2409	100
180	1.673	1.667	1.673	1.667					170-180	0.1541	2410	100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

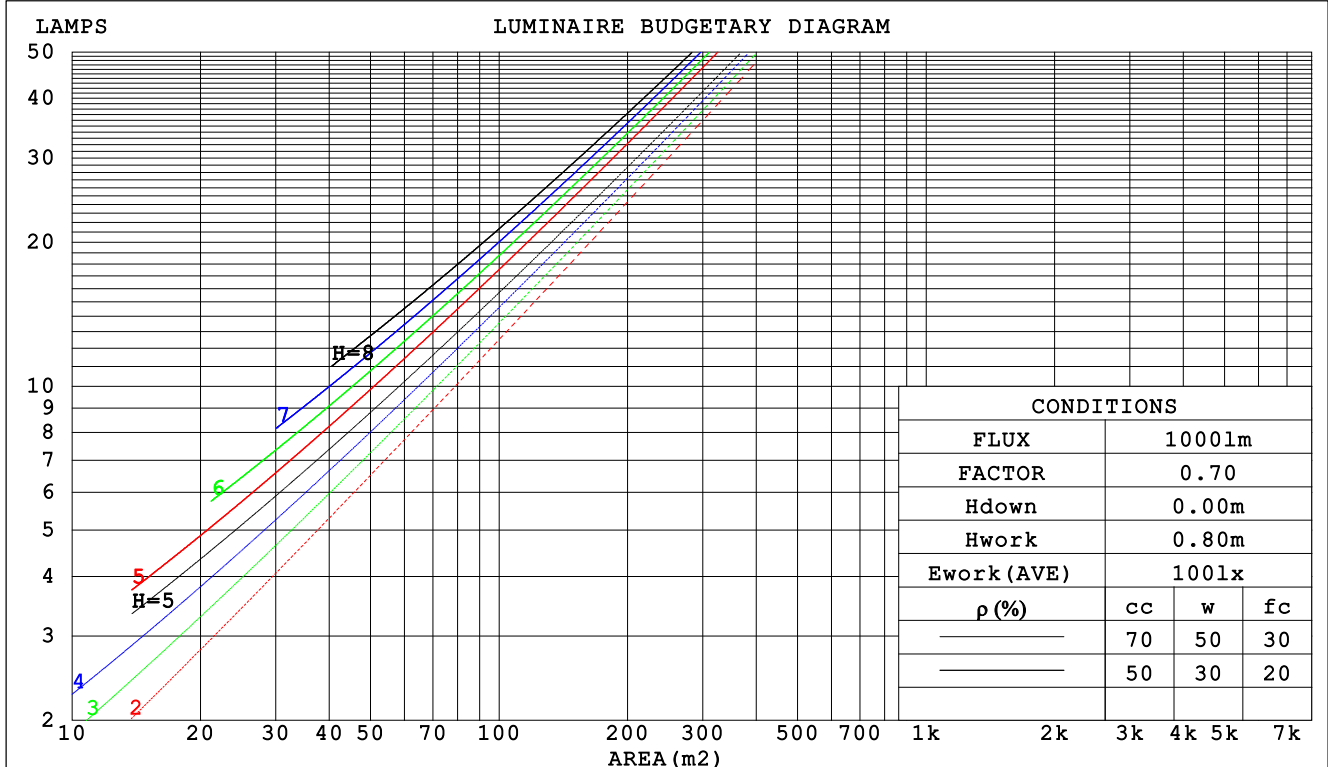
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Aaron
Test Date:2018-01-26

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, 60°lens
2#反射器, ADR9.5CC 98057

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.4V I:0.2590A P:30.99W PF:0.9941 Lamp Flux:2409.64x1 lm		
NAME: 30ADL/60°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/60°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			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	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.03	1.02	1.01	.00	.99	.98	.97	.96	.94
2.0	1.04	1.00	.97	1.02	.99	.96	.99	.96	.94	.96	.94	.92	.93	.91	.90	.88
3.0	.97	.93	.89	.96	.92	.88	.93	.90	.87	.91	.88	.85	.89	.86	.84	.83
4.0	.91	.86	.82	.90	.85	.82	.88	.84	.81	.86	.83	.80	.84	.81	.79	.77
5.0	.86	.80	.76	.85	.80	.76	.83	.79	.75	.82	.78	.75	.80	.77	.74	.73
6.0	.81	.75	.71	.80	.75	.71	.79	.74	.70	.77	.73	.70	.76	.72	.69	.68
7.0	.76	.71	.67	.76	.70	.66	.74	.70	.66	.73	.69	.66	.72	.68	.65	.64
8.0	.72	.66	.62	.72	.66	.62	.70	.66	.62	.69	.65	.62	.68	.65	.62	.60
9.0	.68	.63	.59	.68	.62	.59	.67	.62	.58	.66	.61	.58	.65	.61	.58	.57
10.0	.65	.59	.55	.64	.59	.55	.63	.59	.55	.63	.58	.55	.62	.58	.55	.54



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, 60°lens
2#反射器, ADR9.5CC 98057

WEC AND CCEC

Test:U:120.4V I:0.2590A P:30.99W PF:0.9941 Lamp Flux:2409.64x1 lm		
NAME: 30ADL/60°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/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	.170	.097	.031	.164	.093	.030	.151	.087	.028	.139	.080	.026	.129	.075	.024		
2.0	.163	.089	.027	.157	.086	.027	.146	.081	.025	.137	.077	.024	.128	.072	.023		
3.0	.155	.082	.025	.150	.080	.024	.141	.076	.023	.133	.073	.022	.125	.069	.021		
4.0	.148	.077	.023	.144	.075	.022	.136	.072	.022	.129	.069	.021	.122	.066	.020		
5.0	.141	.072	.021	.137	.071	.021	.131	.068	.020	.124	.066	.020	.119	.063	.019		
6.0	.135	.068	.019	.132	.067	.019	.126	.065	.019	.120	.063	.018	.115	.061	.018		
7.0	.129	.064	.018	.127	.063	.018	.121	.061	.018	.116	.060	.017	.112	.058	.017		
8.0	.124	.061	.017	.122	.060	.017	.117	.058	.017	.113	.057	.016	.108	.056	.016		
9.0	.119	.058	.016	.117	.057	.016	.113	.056	.016	.109	.055	.016	.105	.053	.015		
10.0	.115	.055	.015	.113	.054	.015	.109	.053	.015	.105	.052	.015	.102	.051	.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	.147	.136	.126	.100	.093	.087	.058	.054	.051	.018	.017	.016	
2.0	.156	.133	.114	.133	.115	.099	.091	.079	.069	.053	.046	.040	.017	.015	.013	
3.0	.143	.114	.091	.123	.099	.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	.038	.042	.031	.022	.014	.010	.007	
6.0	.116	.078	.051	.100	.068	.045	.069	.047	.032	.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	.065	.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	.034	.018	.033	.020	.011	.011	.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, 60°lens
2#反射器, ADR9.5CC 98057

UGR(Unified Glare Rating) Table

Test:U:120.4V I:0.2590A P:30.99W PF:0.9941 Lamp Flux:2409.64x1 lm										
NAME: 30ADL/60°lens 120-277V					TYPE:LED			WEIGHT:		
SPEC.:30ADL/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	6.0	6.9	6.2	7.1	7.2	6.5	7.4	6.7	7.6	7.7
3H	5.8	6.7	6.1	6.9	7.1	6.3	7.2	6.6	7.4	7.6
4H	5.7	6.5	6.0	6.7	7.0	6.3	7.0	6.5	7.3	7.5
6H	5.7	6.4	5.9	6.6	6.9	6.2	6.9	6.5	7.1	7.4
8H	5.6	6.3	5.9	6.6	6.8	6.1	6.8	6.4	7.1	7.3
12H	5.6	6.2	5.9	6.5	6.8	6.1	6.7	6.4	7.0	7.3
4H 2H	5.7	6.5	6.0	6.7	7.0	6.3	7.0	6.5	7.3	7.5
3H	5.6	6.2	5.9	6.5	6.8	6.1	6.7	6.4	7.0	7.3
4H	5.5	6.1	5.8	6.4	6.7	6.0	6.6	6.3	6.9	7.2
6H	5.4	5.9	5.7	6.2	6.6	5.9	6.4	6.3	6.8	7.1
8H	5.3	5.8	5.7	6.2	6.5	5.8	6.3	6.2	6.7	7.0
12H	5.3	5.7	5.7	6.1	6.5	5.8	6.2	6.2	6.6	7.0
8H 4H	5.3	5.8	5.7	6.2	6.5	5.8	6.3	6.2	6.7	7.0
6H	5.2	5.6	5.6	6.0	6.4	5.7	6.1	6.2	6.5	6.9
8H	5.2	5.5	5.6	5.9	6.4	5.7	6.0	6.1	6.5	6.9
12H	5.1	5.4	5.6	5.9	6.3	5.6	5.9	6.1	6.4	6.8
12H 4H	5.3	5.7	5.7	6.1	6.5	5.8	6.2	6.2	6.6	7.0
6H	5.2	5.5	5.6	5.9	6.4	5.7	6.0	6.1	6.5	6.9
8H	5.1	5.4	5.6	5.9	6.3	5.6	5.9	6.1	6.4	6.8
Variations with the observer position at spacings:										
S = 1.0H	+ 3.8 / -19.4					+ 4.5 / -18.8				
1.5H	+ 6.6 / -17.5					+ 7.3 / -17.1				
2.0H	+ 5.5 / - 3.6					+ 6.9 / - 3.9				

CIE Pub.117 Corrected 2410 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, 60°lens
2#反射器, ADR9.5CC 98057

UTILIZATION FACTORS TABLE

Test:U:120.4V I:0.2590A P:30.99W PF:0.9941 Lamp Flux:2409.64x1 lm		
NAME: 30ADL/60°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/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	90	84	81	89	84	81	77
0.80	97	92	88	97	91	88	95	91	88	85
1.00	101	96	93	100	96	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:2018-01-26

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, 60°lens
2#反射器, ADR9.5CC 98057

ISOCANDELA DIAGRAM

Test:U:120.4V I:0.2590A P:30.99W PF:0.9941 Lamp Flux:2409.64x1 lm		
NAME: 30ADL/60°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/60°lens 120-277V	DIM.:	SERIAL No.:02
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

2395.1 lm

%lum = 99.4%

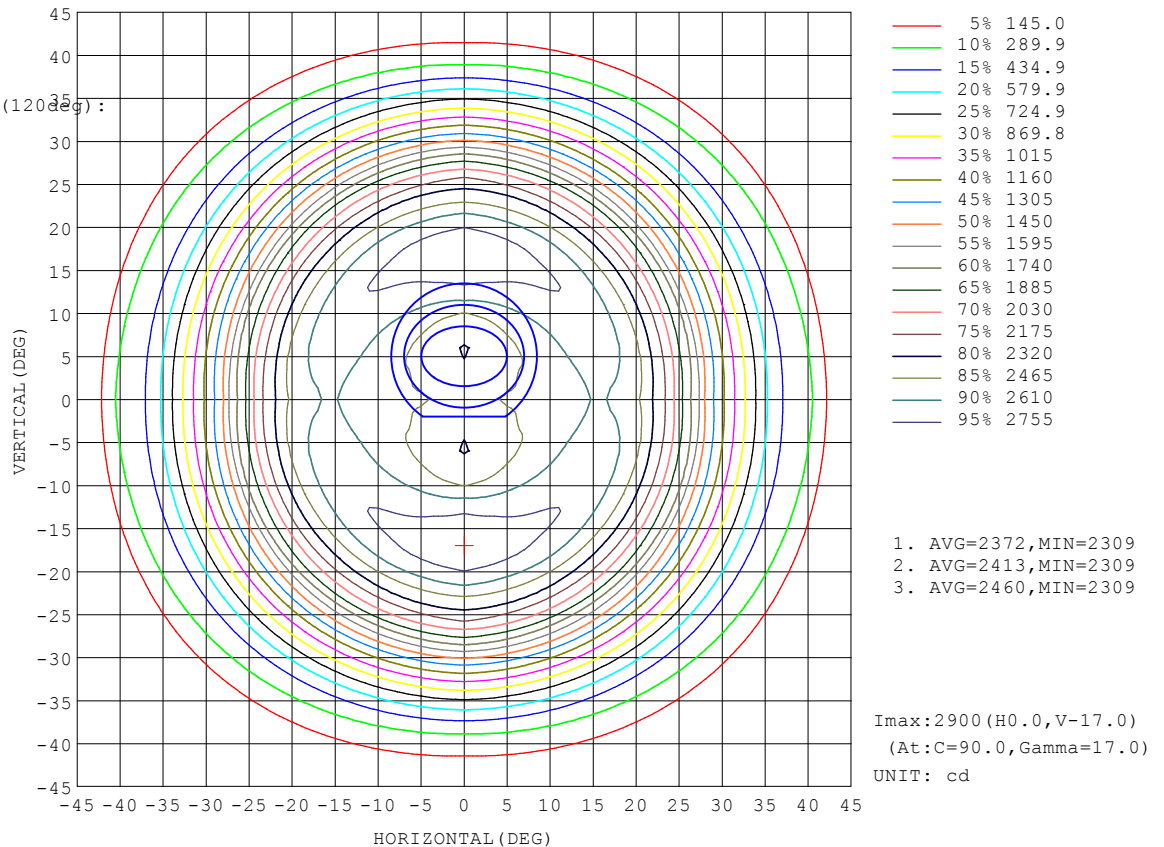
%lamp = 99.4%

Conical surface Flux(120deg):

2404.9 lm

%lum = 99.8%

%lamp = 99.8%

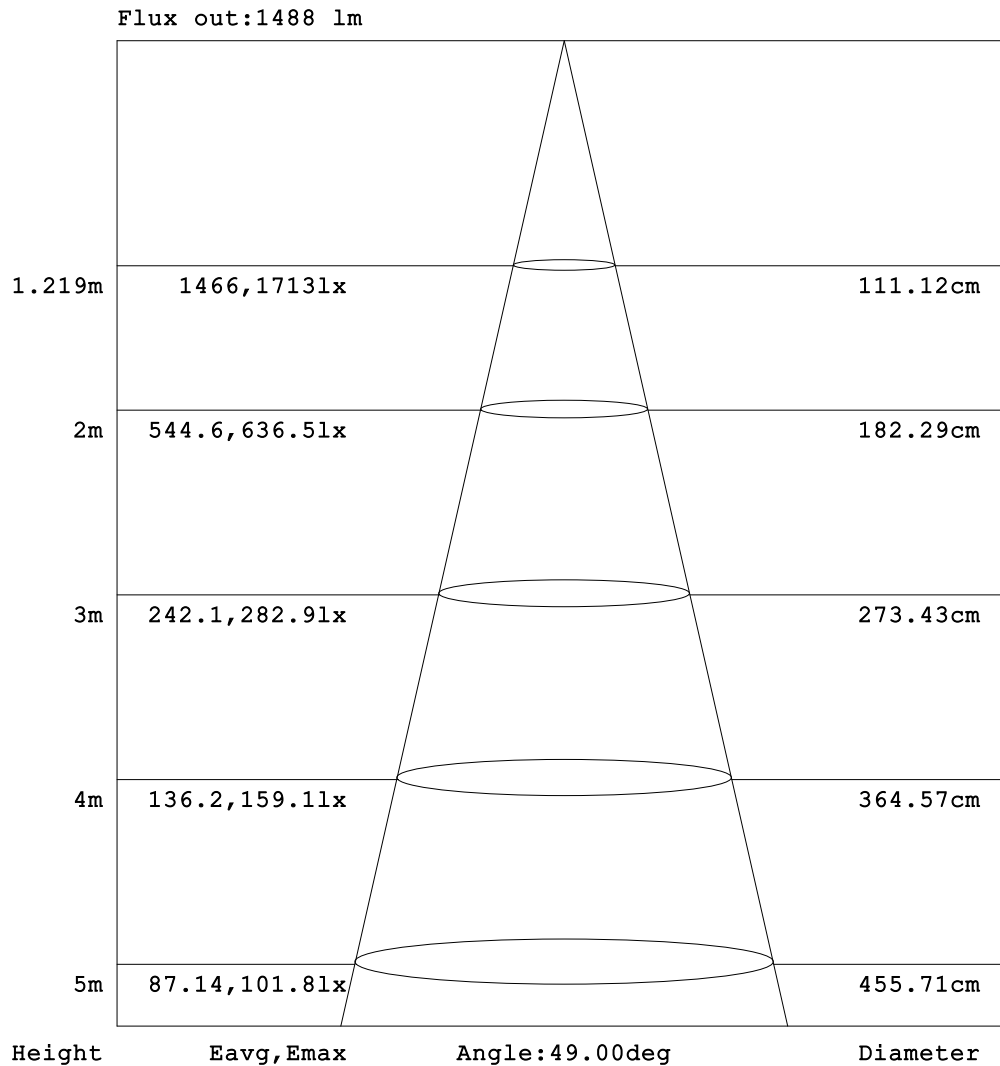


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Aaron
Test Date:2018-01-26

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, 60°lens
2#反射器, ADR9.5CC 98057

AAI Figure

Test:U:120.4V I:0.2590A P:30.99W PF:0.9941 Lamp Flux:2409.64x1 lm		
NAME: 30ADL/60°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/60°lens 120-277V	DIM.:	SERIAL No.:02
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:



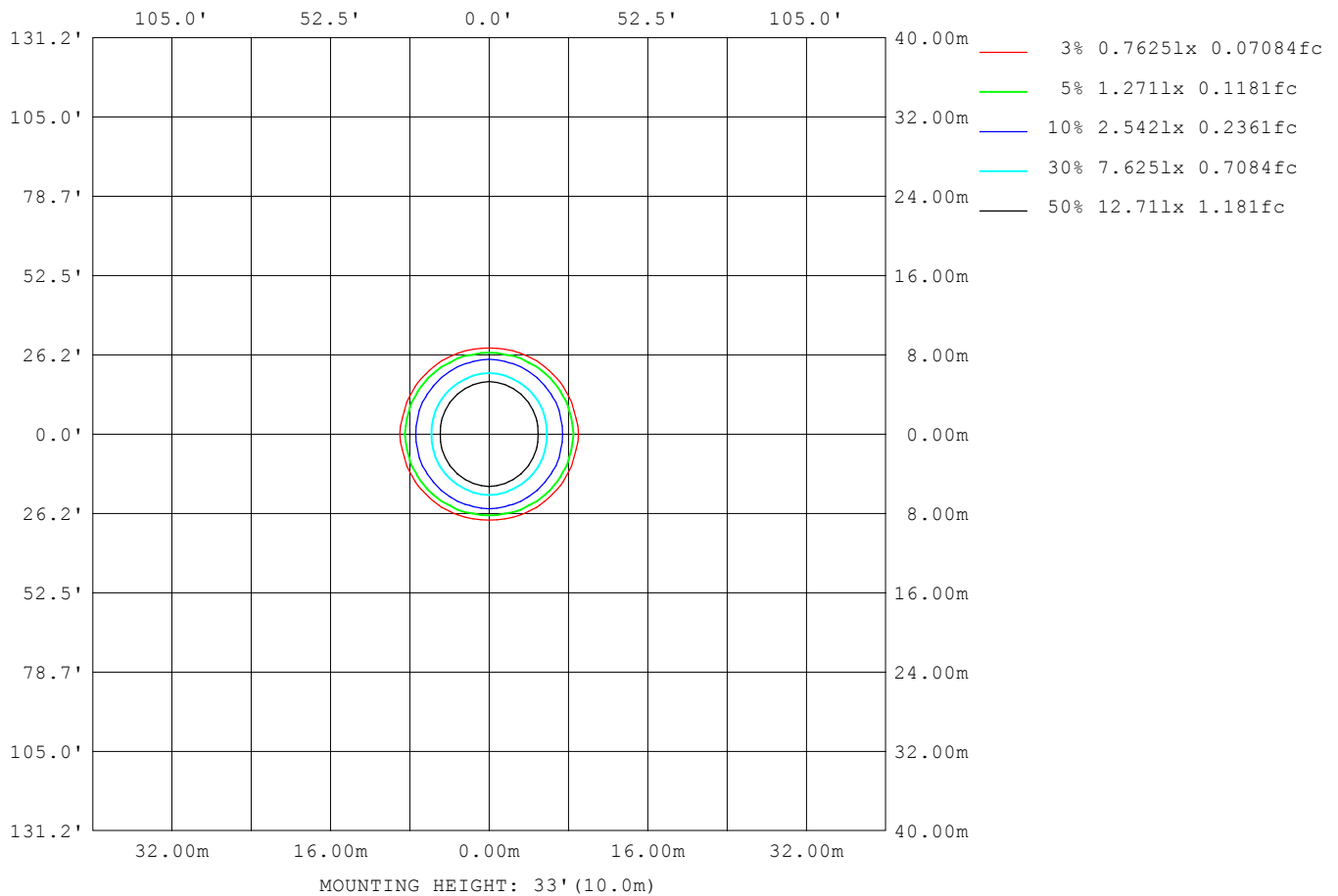
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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, 60°lens
2#反射器, ADR9.5CC 98057

ISOLUX DIAGRAM

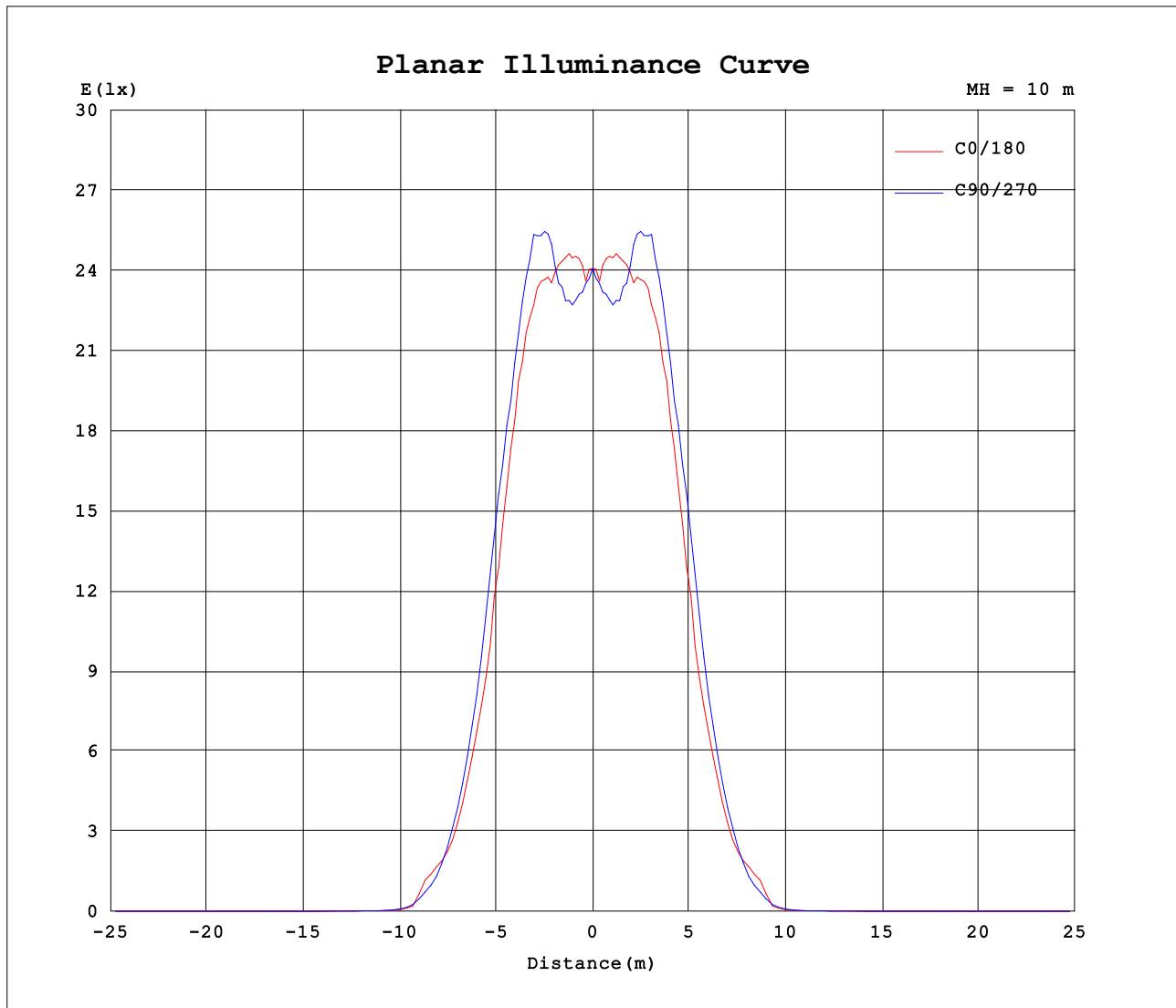
Test:U:120.4V I:0.2590A P:30.99W PF:0.9941 Lamp Flux:2409.64x1 lm		
NAME: 30ADL/60°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/60°lens 120-277V	DIM.:	SERIAL No.:02
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:



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

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, 60°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, 60° lens
 2#反射器, ADR9.5CC 98057

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.4V I:0.2590A P:30.99W PF:0.9941 Lamp Flux:2409.64x1 lm		
NAME: 30ADL/60°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/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	2408	2408	2408	2408															
5	2481	2316	2481	2316															
10	2535	2463	2535	2463															
15	2618	2809	2618	2809															
20	2478	2751	2478	2751															
25	1952	2251	1952	2251															
30	1185	1468	1185	1468															
35	607	711	607	711															
40	311	217	311	217															
45	20.2	27.1	20.2	27.1															
50	8.40	8.42	8.40	8.42															
55	4.75	5.03	4.75	5.03															
60	2.84	3.13	2.84	3.13															
65	1.76	1.99	1.76	1.99															
70	1.09	1.27	1.09	1.27															
75	0.63	0.71	0.63	0.71															
80	0.27	0.30	0.27	0.30															
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	0.01	0.00	0.01	0.00															
125	0.17	0.08	0.17	0.08															
130	0.32	0.24	0.32	0.24															
135	0.50	0.41	0.50	0.41															
140	0.68	0.58	0.68	0.58															
145	0.86	0.76	0.86	0.76															
150	1.05	0.94	1.05	0.94															
155	1.16	1.12	1.16	1.12															
160	1.29	1.27	1.29	1.27															
165	1.42	1.43	1.42	1.43															
170	1.56	1.56	1.56	1.56															
175	1.65	1.64	1.65	1.64															
180	1.67	1.67	1.67	1.67															

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, 60°lens
2#反射器, ADR9.5CC 98057