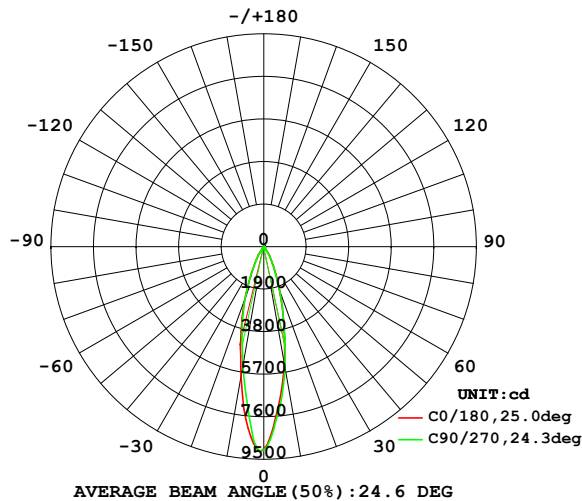


LUMINAIRE PHOTOMETRIC TEST REPORT

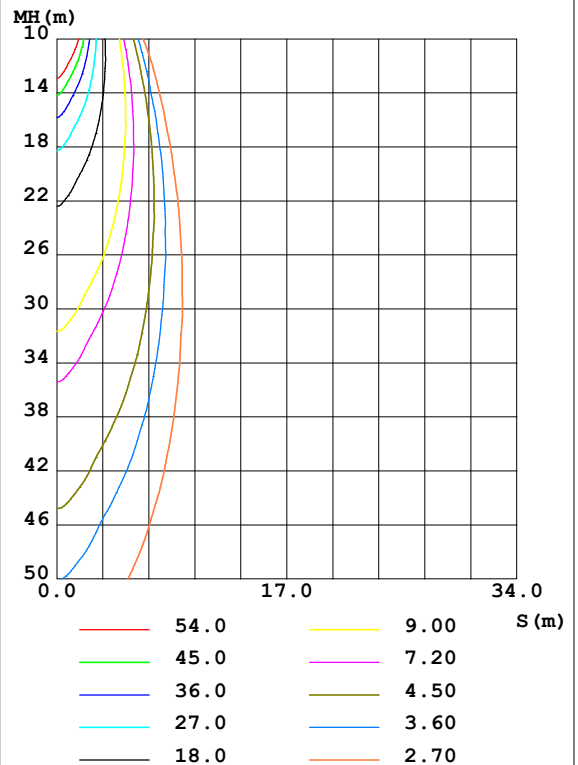
Test:U:120.3V I:0.2585A P:30.91W PF:0.9942 Lamp Flux:2444.13x1 lm		
NAME: 30ADL/25°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/25°lens 120-277V	DIM.:	SERIAL No.:02
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 79.08 lm/W			
MODEL		I _{max} (cd)	9160	S/MH (C0/180)	0.44
NOMINAL POWER (W)	30	LOR (%)	100.0	S/MH (C90/270)	0.41
RATED VOLTAGE (V)	120-277	TOTAL FLUX (lm)	2444.1	η UP, DN (C0-180)	0.1, 47.9
NOMINAL FLUX (lm)	2444.13	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 52.0
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, 25°lens
2#反射器, ADR8CC 98054

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum
10	5300	5489	5889	5367					0- 10	659.3	659.3	27
20	2067	2054	2438	2442					10- 20	1009	1668	68.2
30	647.0	630.8	673.6	614.2					20- 30	577.0	2245	91.8
40	75.75	71.91	68.34	71.72					30- 40	166.8	2412	98.7
50	6.838	6.427	5.322	7.717					40- 50	24.70	2436	99.7
60	2.204	2.283	1.677	2.650					50- 60	3.493	2440	99.8
70	0.8432	0.9122	0.5992	1.060					60- 70	1.410	2441	99.9
80	0.1788	0.1965	0.0319	0.2624					70- 80	0.5129	2442	99.9
90	0	0	0	0					80- 90	0.0302	2442	99.9
100	0	0	0	0					90-100	0	2442	99.9
110	0	0	0	0					100-110	0	2442	99.9
120	0	0	0	0					110-120	0	2442	99.9
130	0.1974	0.1983	0.1724	0.1404					120-130	0.0349	2442	99.9
140	0.7776	0.7857	0.7281	0.7019					130-140	0.3392	2442	99.9
150	1.410	1.411	1.328	1.301					140-150	0.6647	2443	99.9
160	1.742	1.762	1.672	1.640					150-160	0.7194	2443	100
170	1.736	1.723	1.666	1.672					160-170	0.4920	2444	100
180	1.634	1.627	1.634	1.621					170-180	0.1580	2444	100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

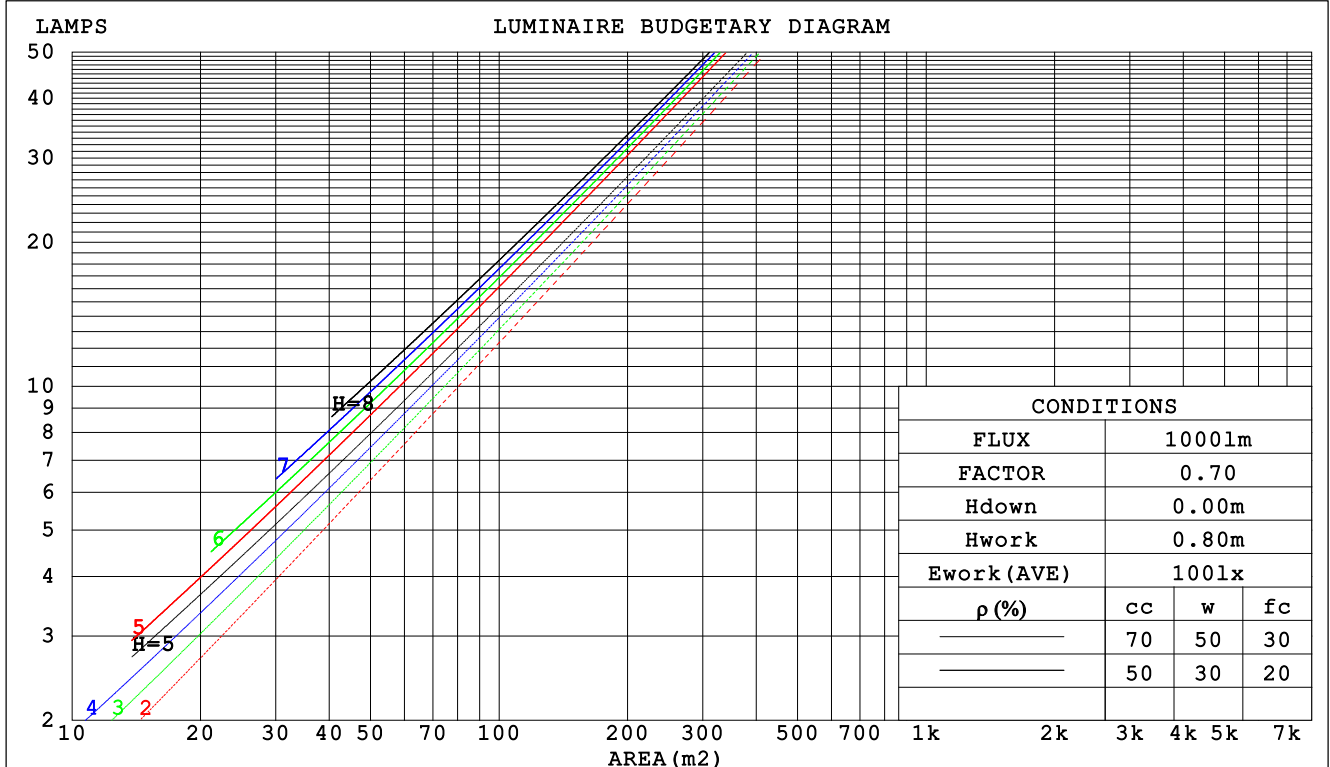
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Aaron
Test Date:2018-01-29

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, 25°lens
2#反射器, ADR8CC 98054

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.3V I:0.2585A P:30.91W PF:0.9942 Lamp Flux:2444.13x1 lm		
NAME: 30ADL/25°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/25°lens 120-277V	DIM.:	SERIAL No.:02
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{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	1.12	1.10	1.09	1.10	1.08	1.07	1.06	1.05	1.04	1.03	1.01	1.00	.99	.98	.98	.96
2.0	1.07	1.03	1.01	1.05	1.02	.00	1.02	.99	.97	.99	.97	.95	.96	.95	.93	.92
3.0	1.01	.98	.94	1.00	.97	.94	.98	.95	.92	.95	.93	.91	.93	.91	.89	.88
4.0	.97	.93	.89	.96	.92	.89	.94	.90	.88	.92	.89	.87	.90	.88	.86	.84
5.0	.93	.88	.85	.92	.88	.84	.90	.87	.84	.89	.85	.83	.87	.84	.82	.81
6.0	.89	.84	.81	.88	.84	.81	.87	.83	.80	.86	.82	.80	.84	.81	.79	.78
7.0	.85	.81	.78	.85	.80	.77	.84	.80	.77	.83	.79	.77	.82	.79	.76	.75
8.0	.82	.78	.75	.82	.77	.74	.81	.77	.74	.80	.76	.74	.79	.76	.74	.72
9.0	.79	.75	.72	.79	.75	.72	.78	.74	.71	.77	.74	.71	.77	.73	.71	.70
10.0	.77	.72	.69	.76	.72	.69	.76	.72	.69	.75	.71	.69	.74	.71	.69	.68



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, 25°lens
2#反射器, ADR8CC 98054

WEC AND CCEC

Test:U:120.3V I:0.2585A P:30.91W PF:0.9942 Lamp Flux:2444.13x1 lm		
NAME: 30ADL/25°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/25°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	.146	.083	.026	.140	.080	.025	.127	.073	.023	.116	.067	.021	.105	.061	.020		
2.0	.137	.075	.023	.131	.072	.022	.121	.067	.021	.111	.062	.020	.103	.058	.018		
3.0	.128	.068	.020	.124	.066	.020	.115	.062	.019	.107	.059	.018	.100	.055	.017		
4.0	.121	.063	.019	.117	.061	.018	.110	.058	.017	.103	.055	.017	.097	.053	.016		
5.0	.115	.058	.017	.111	.057	.017	.105	.055	.016	.099	.052	.016	.094	.050	.015		
6.0	.109	.055	.016	.106	.054	.015	.101	.052	.015	.096	.050	.015	.091	.048	.014		
7.0	.104	.051	.015	.102	.051	.014	.097	.049	.014	.092	.047	.014	.088	.046	.013		
8.0	.099	.049	.014	.097	.048	.014	.093	.046	.013	.089	.045	.013	.085	.044	.013		
9.0	.095	.046	.013	.093	.045	.013	.090	.044	.013	.086	.043	.012	.083	.042	.012		
10.0	.092	.044	.012	.090	.043	.012	.086	.042	.012	.083	.041	.012	.080	.040	.012		

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	.148	.145	.136	.127	.099	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.152	.133	.118	.130	.115	.102	.089	.079	.071	.052	.046	.042	.017	.015	.014	
3.0	.138	.114	.095	.118	.098	.082	.081	.068	.058	.047	.040	.034	.015	.013	.011	
4.0	.126	.099	.078	.108	.085	.068	.074	.060	.048	.043	.035	.028	.014	.011	.009	
5.0	.116	.087	.065	.100	.075	.057	.069	.052	.040	.040	.031	.024	.013	.010	.008	
6.0	.108	.077	.055	.093	.067	.048	.064	.047	.034	.037	.027	.020	.012	.009	.007	
7.0	.100	.069	.047	.086	.060	.041	.060	.042	.029	.035	.025	.017	.011	.008	.006	
8.0	.094	.062	.040	.081	.054	.035	.056	.038	.025	.033	.022	.015	.011	.007	.005	
9.0	.089	.057	.035	.076	.049	.031	.053	.035	.022	.031	.020	.013	.010	.007	.004	
10.0	.084	.052	.031	.072	.045	.027	.050	.032	.019	.029	.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, 25°lens
2#反射器, ADR8CC 98054

UGR(Unified Glare Rating) Table

Test:U:120.3V I:0.2585A P:30.91W PF:0.9942 Lamp Flux:2444.13x1 lm										
NAME: 30ADL/25°lens 120-277V					TYPE:LED			WEIGHT:		
SPEC.:30ADL/25°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	0.2	1.0	0.5	1.1	1.3	0.1	0.8	0.3	1.0	1.2
3H	0.1	0.8	0.3	1.0	1.1	-0.0	0.6	0.2	0.8	1.0
4H	0.0	0.7	0.3	0.9	1.1	-0.1	0.5	0.2	0.7	1.0
6H	-0.1	0.5	0.2	0.8	1.0	-0.2	0.4	0.1	0.6	0.9
8H	-0.1	0.5	0.2	0.7	1.0	-0.2	0.3	0.1	0.6	0.8
12H	-0.2	0.4	0.2	0.7	0.9	-0.3	0.3	0.0	0.5	0.8
4H 2H	0.0	0.7	0.3	0.9	1.1	-0.1	0.5	0.2	0.7	1.0
3H	-0.2	0.4	0.2	0.7	0.9	-0.3	0.3	0.0	0.5	0.8
4H	-0.2	0.3	0.1	0.6	0.9	-0.4	0.1	-0.0	0.4	0.7
6H	-0.3	0.1	0.0	0.4	0.8	-0.5	-0.0	-0.1	0.3	0.7
8H	-0.4	0.0	-0.0	0.4	0.7	-0.5	-0.1	-0.1	0.2	0.6
12H	-0.5	-0.1	-0.0	0.3	0.7	-0.6	-0.2	-0.2	0.2	0.6
8H 4H	-0.4	0.0	-0.0	0.4	0.7	-0.5	-0.1	-0.1	0.2	0.6
6H	-0.5	-0.2	-0.1	0.2	0.6	-0.6	-0.3	-0.2	0.1	0.5
8H	-0.6	-0.3	-0.1	0.2	0.6	-0.7	-0.4	-0.2	0.0	0.5
12H	-0.6	-0.4	-0.2	0.1	0.5	-0.8	-0.5	-0.3	-0.0	0.4
12H 4H	-0.5	-0.1	-0.0	0.3	0.7	-0.6	-0.2	-0.2	0.2	0.6
6H	-0.6	-0.3	-0.1	0.2	0.6	-0.7	-0.4	-0.2	0.0	0.5
8H	-0.6	-0.4	-0.2	0.1	0.5	-0.8	-0.5	-0.3	-0.0	0.4
Variations with the observer position at spacings:										
S = 1.0H	+ 3.5 / -12.6					+ 2.7 / -11.8				
1.5H	+ 5.8 / -11.1					+ 5.1 / -10.3				
2.0H	+ 8.1 / - 6.9					+ 8.0 / - 5.4				

CIE Pub.117 Corrected 2444 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:2018-01-29

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, 25°lens
2#反射器, ADR8CC 98054

UTILIZATION FACTORS TABLE

Test:U:120.3V I:0.2585A P:30.91W PF:0.9942 Lamp Flux:2444.13x1 lm		
NAME: 30ADL/25°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/25°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	81	90	84	81	78
0.80	98	93	89	97	92	89	96	92	89	85
1.00	102	97	93	101	96	93	99	96	92	89
1.25	105	100	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	97
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:2018-01-29

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, 25°lens
2#反射器, ADR8CC 98054

ISOCANDELA DIAGRAM

Test:U:120.3V I:0.2585A P:30.91W PF:0.9942 Lamp Flux:2444.13x1 lm		
NAME: 30ADL/25°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/25°lens 120-277V	DIM.:	SERIAL No.:02
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

2430.8 lm

%lum = 99.5%

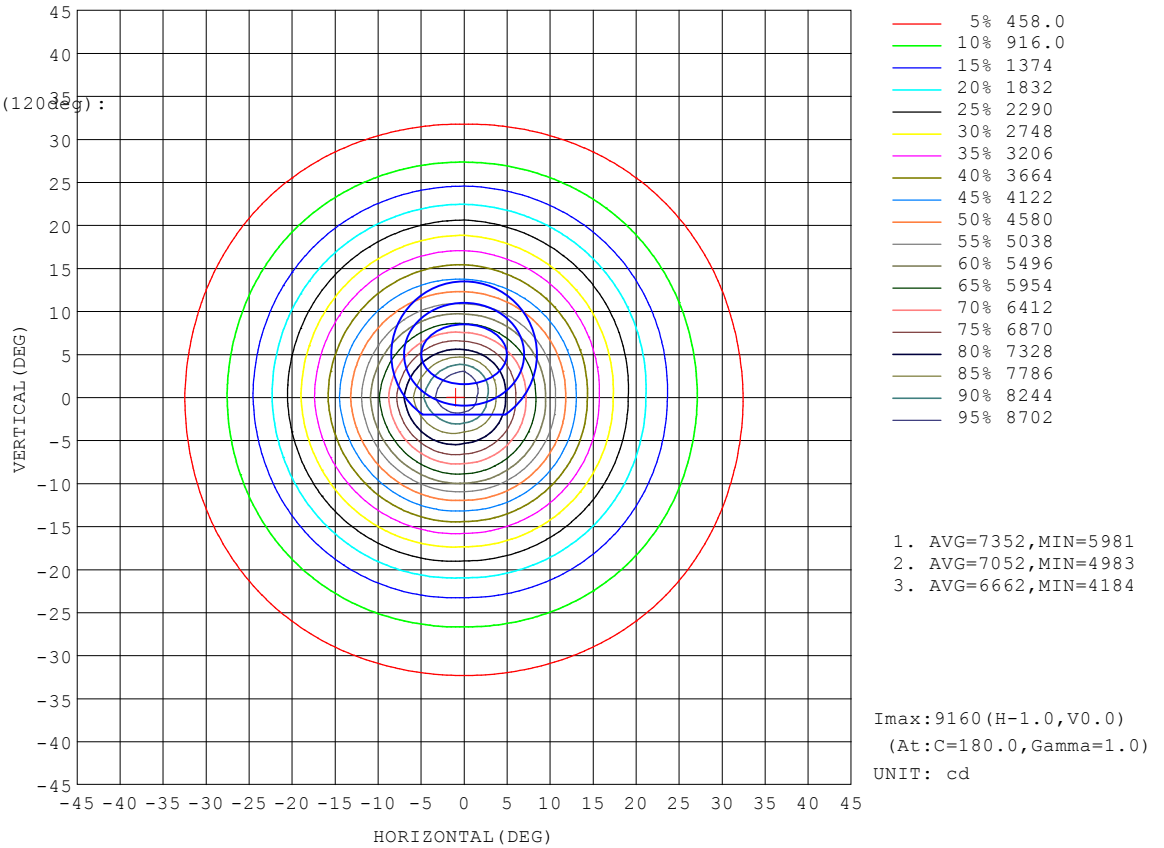
%lamp = 99.5%

Conical surface Flux(120deg):

2439.8 lm

%lum = 99.8%

%lamp = 99.8%

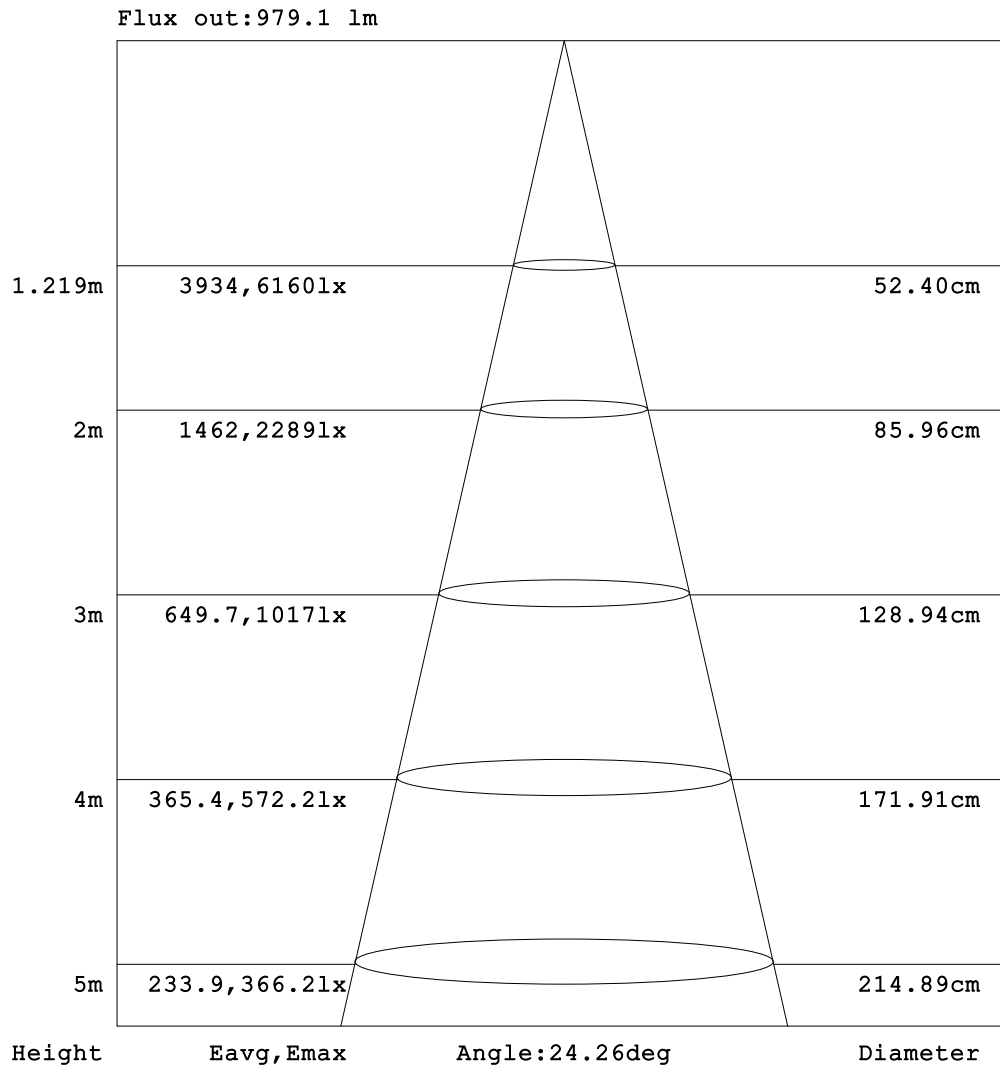


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Aaron
Test Date:2018-01-29

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, 25°lens
2#反射器, ADR8CC 98054

AAI Figure

Test:U:120.3V I:0.2585A P:30.91W PF:0.9942 Lamp Flux:2444.13x1 lm		
NAME: 30ADL/25°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/25°lens 120-277V	DIM.:	SERIAL No.:02
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:



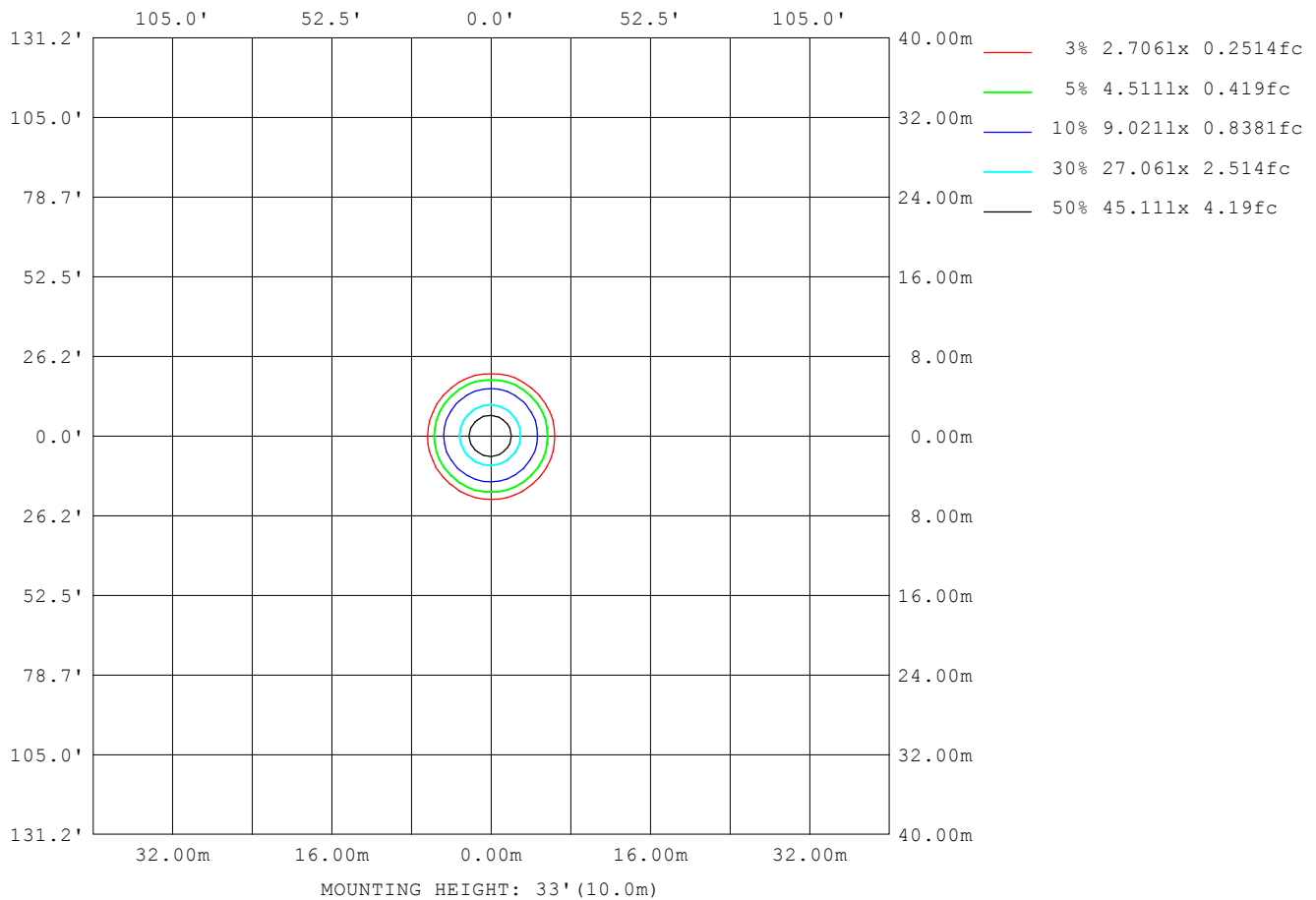
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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, 25°lens
2#反射器, ADR8CC 98054

ISOLUX DIAGRAM

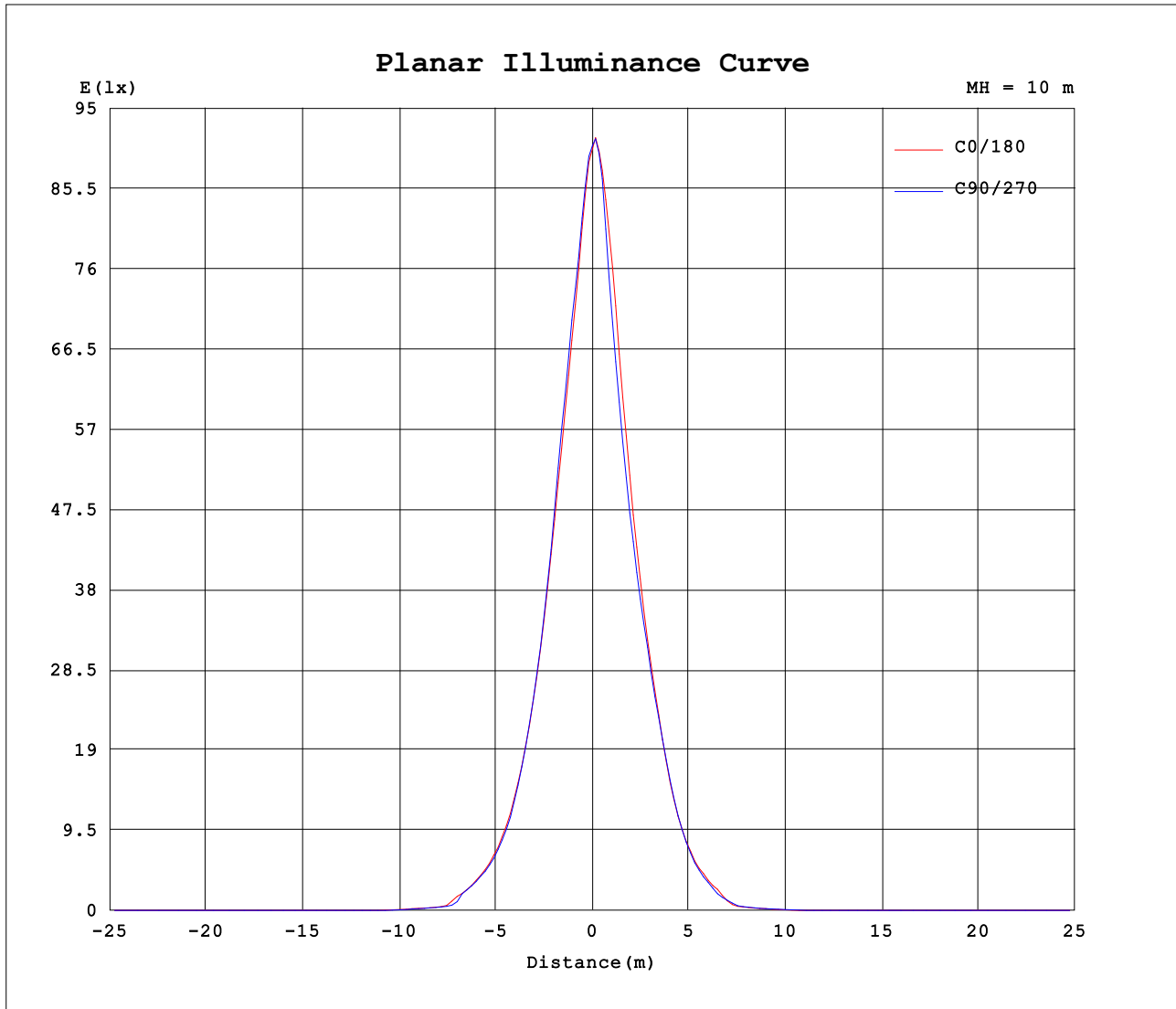
Test:U:120.3V I:0.2585A P:30.91W PF:0.9942 Lamp Flux:2444.13x1 lm		
NAME: 30ADL/25°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/25°lens 120-277V	DIM.:	SERIAL No.:02
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:



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

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, 25°lens
2#反射器, ADR8CC 98054

Planar Illuminance Curve



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, 25° lens
 2#反射器, ADR8CC 98054

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.3V I:0.2585A P:30.91W PF:0.9942 Lamp Flux:2444.13x1 lm		
NAME: 30ADL/25°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/25°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	9021	9058	9021	9058															
5	7258	7450	8139	7595															
10	5300	5489	5889	5367															
15	3447	3466	3945	3771															
20	2067	2054	2438	2442															
25	1180	1123	1292	1286															
30	647	631	674	614															
35	306	190	210	226															
40	75.8	71.9	68.3	71.7															
45	35.8	28.8	27.0	33.6															
50	6.84	6.43	5.32	7.72															
55	3.78	3.74	2.89	4.42															
60	2.20	2.28	1.68	2.65															
65	1.37	1.46	1.01	1.66															
70	0.84	0.91	0.60	1.06															
75	0.47	0.52	0.29	0.62															
80	0.18	0.20	0.03	0.26															
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	0.01	0.01	0.00	0.00															
130	0.20	0.20	0.17	0.14															
135	0.45	0.47	0.43	0.39															
140	0.78	0.79	0.73	0.70															
145	1.14	1.13	1.03	1.01															
150	1.41	1.41	1.33	1.30															
155	1.63	1.63	1.54	1.52															
160	1.74	1.76	1.67	1.64															
165	1.79	1.79	1.73	1.70															
170	1.74	1.72	1.67	1.67															
175	1.63	1.64	1.63	1.60															
180	1.63	1.63	1.63	1.62															

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, 25°lens
2#反射器, ADR8CC 98054