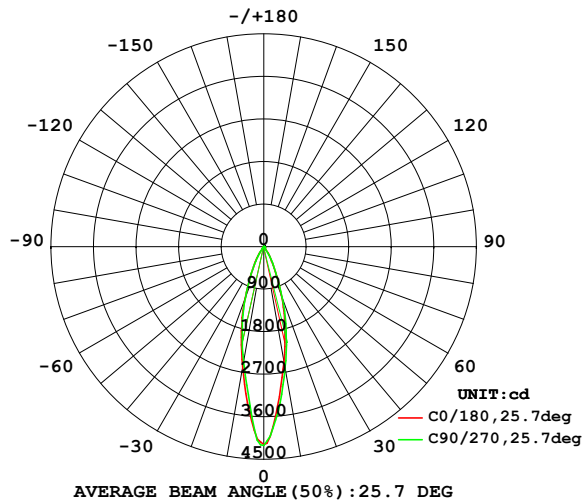


LUMINAIRE PHOTOMETRIC TEST REPORT

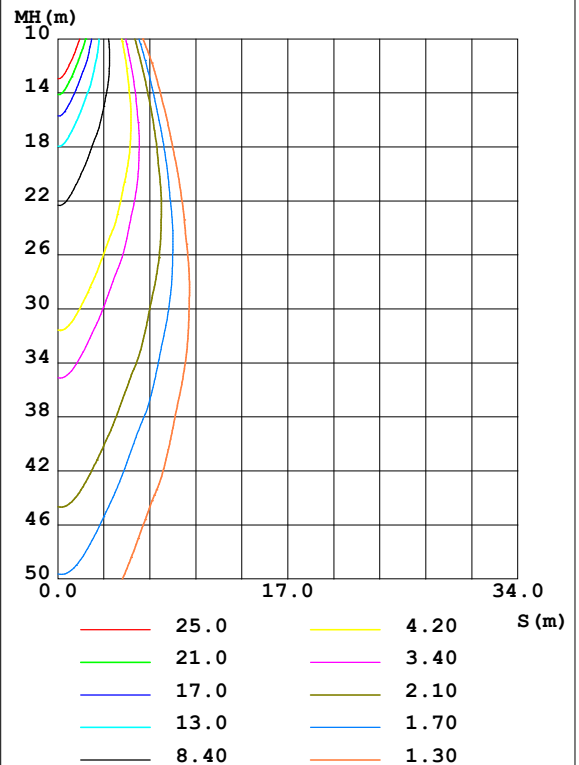
Test:U:120.3V I:0.1158A P:12.49W PF:0.8965 Lamp Flux:1180.02x1 lm		
NAME: 15ADL/25°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/25°lens 120-277V	DIM.:	SERIAL No.:02
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 94.50 lm/W			
MODEL		I _{max} (cd)	4208	S/MH (C0/180)	0.43
NOMINAL POWER (W)	15	LOR (%)	100.0	S/MH (C90/270)	0.41
RATED VOLTAGE (V)	120-277	TOTAL FLUX (lm)	1180.0	η UP, DN (C0-180)	0.0, 49.4
NOMINAL FLUX (lm)	1180.02	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.5
LAMPS INSIDE	1	η up (%)	0.1	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	120	η down (%)	99.9	CIBSE SHR MAX	0.50

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	2492	2608	2587	2481					0- 10	299.5	299.5	25.4
20	1101	1142	1160	1146					10- 20	492.3	791.8	67.1
30	306.5	313.5	331.5	316.9					20- 30	289.5	1081	91.6
40	30.67	34.55	34.06	35.49					30- 40	83.69	1165	98.7
50	2.606	3.118	2.963	3.768					40- 50	12.01	1177	99.7
60	0.7548	0.9813	0.8357	1.258					50- 60	1.610	1179	99.9
70	0.1922	0.2739	0.2106	0.4281					60- 70	0.5526	1179	99.9
80	0	0	0	0.0067					70- 80	0.1122	1179	99.9
90	0	0	0	0					80- 90	0.0001	1179	99.9
100	0	0	0	0					90-100	0	1179	99.9
110	0	0	0	0					100-110	0	1179	99.9
120	0	0	0	0					110-120	0	1179	99.9
130	0	0	0	0					120-130	0	1179	99.9
140	0.1977	0.2049	0.2045	0.1913					130-140	0.0518	1179	99.9
150	0.4850	0.5172	0.4916	0.4655					140-150	0.2169	1180	100
160	0.6698	0.6831	0.6510	0.6190					150-160	0.2694	1180	100
170	0.6830	0.6701	0.6382	0.6446					160-170	0.1889	1180	100
180	0.6318	0.6318	0.6382	0.6318					170-180	0.0617	1180	100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

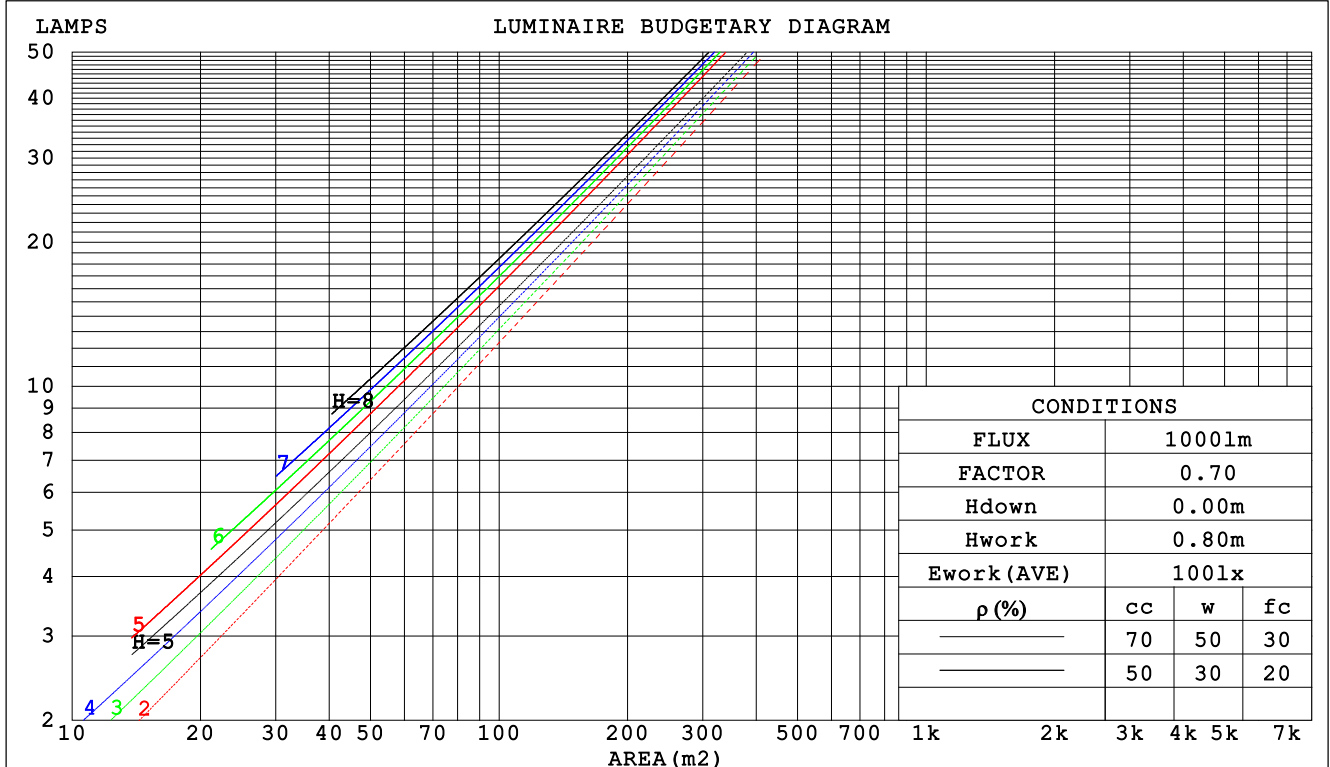
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Aaron
Test Date:2018-01-29

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:0.1158A P:12.49W PF:0.8965 Lamp Flux:1180.02x1 lm		
NAME: 15ADL/25°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/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	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	1.07	1.06	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96
2.0	1.06	1.03	1.00	1.05	1.02	.99	1.02	.99	.97	.99	.97	.95	.96	.95	.93	.92
3.0	1.01	.97	.94	.90	.96	.93	.97	.94	.92	.95	.93	.90	.93	.91	.89	.88
4.0	.97	.92	.89	.95	.91	.88	.93	.90	.87	.92	.89	.86	.90	.87	.85	.84
5.0	.92	.88	.84	.91	.87	.84	.90	.86	.83	.88	.85	.83	.87	.84	.82	.81
6.0	.88	.84	.80	.88	.83	.80	.86	.83	.80	.85	.82	.79	.84	.81	.79	.78
7.0	.85	.80	.77	.84	.80	.77	.83	.79	.76	.82	.79	.76	.81	.78	.76	.75
8.0	.82	.77	.74	.81	.77	.74	.80	.76	.73	.79	.76	.73	.78	.75	.73	.72
9.0	.79	.74	.71	.78	.74	.71	.77	.73	.71	.77	.73	.70	.76	.73	.70	.69
10.0	.76	.71	.68	.76	.71	.68	.75	.71	.68	.74	.71	.68	.74	.70	.68	.67



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:0.1158A P:12.49W PF:0.8965 Lamp Flux:1180.02x1 lm		
NAME: 15ADL/25°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/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	.147	.084	.027	.141	.080	.026	.128	.074	.024	.117	.067	.022	.106	.062	.020		
2.0	.138	.076	.023	.133	.073	.022	.122	.068	.021	.113	.063	.020	.104	.059	.019		
3.0	.130	.069	.021	.125	.067	.020	.117	.063	.019	.108	.059	.018	.101	.056	.017		
4.0	.123	.064	.019	.119	.062	.018	.111	.059	.018	.104	.056	.017	.098	.053	.016		
5.0	.116	.059	.017	.113	.058	.017	.106	.055	.016	.101	.053	.016	.095	.051	.015		
6.0	.111	.055	.016	.108	.054	.016	.102	.052	.015	.097	.050	.015	.092	.049	.014		
7.0	.105	.052	.015	.103	.051	.015	.098	.050	.014	.094	.048	.014	.089	.046	.014		
8.0	.101	.049	.014	.099	.049	.014	.094	.047	.013	.090	.046	.013	.087	.044	.013		
9.0	.097	.047	.013	.095	.046	.013	.091	.045	.013	.087	.044	.013	.084	.043	.012		
10.0	.093	.045	.012	.091	.044	.012	.088	.043	.012	.085	.042	.012	.082	.041	.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	.111	.111	.111	.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	.117	.130	.115	.101	.089	.079	.071	.052	.046	.041	.017	.015	.013	
3.0	.138	.114	.095	.118	.098	.082	.081	.068	.058	.047	.040	.034	.015	.013	.011	
4.0	.126	.099	.078	.108	.085	.067	.074	.059	.048	.043	.035	.028	.014	.011	.009	
5.0	.116	.087	.065	.100	.075	.056	.069	.052	.040	.040	.031	.024	.013	.010	.008	
6.0	.108	.077	.055	.093	.067	.047	.064	.047	.034	.037	.027	.020	.012	.009	.007	
7.0	.101	.069	.046	.087	.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	.077	.049	.030	.053	.035	.022	.031	.020	.013	.010	.007	.004	
10.0	.084	.052	.031	.073	.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:0.1158A P:12.49W PF:0.8965 Lamp Flux:1180.02x1 lm										
NAME: 15ADL/25°lens 120-277V					TYPE:LED			WEIGHT:		
SPEC.:15ADL/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	-2.7	-2.0	-2.5	-1.8	-1.7	-2.4	-1.7	-2.2	-1.5	-1.4
3H	-2.9	-2.2	-2.6	-2.0	-1.8	-2.6	-1.9	-2.3	-1.7	-1.5
4H	-3.0	-2.3	-2.7	-2.1	-1.9	-2.6	-2.0	-2.4	-1.8	-1.6
6H	-3.1	-2.5	-2.8	-2.2	-2.0	-2.7	-2.1	-2.4	-1.9	-1.6
8H	-3.1	-2.5	-2.8	-2.3	-2.0	-2.8	-2.2	-2.5	-1.9	-1.7
12H	-3.1	-2.6	-2.8	-2.3	-2.1	-2.8	-2.3	-2.5	-2.0	-1.7
4H 2H	-3.0	-2.3	-2.7	-2.1	-1.9	-2.6	-2.0	-2.4	-1.8	-1.6
3H	-3.1	-2.6	-2.8	-2.3	-2.1	-2.8	-2.2	-2.5	-2.0	-1.7
4H	-3.2	-2.7	-2.9	-2.4	-2.1	-2.9	-2.4	-2.6	-2.1	-1.8
6H	-3.3	-2.9	-3.0	-2.6	-2.2	-3.0	-2.6	-2.6	-2.2	-1.9
8H	-3.4	-3.0	-3.0	-2.6	-2.3	-3.1	-2.6	-2.7	-2.3	-1.9
12H	-3.4	-3.1	-3.0	-2.7	-2.3	-3.1	-2.7	-2.7	-2.4	-2.0
8H 4H	-3.4	-3.0	-3.0	-2.6	-2.3	-3.1	-2.6	-2.7	-2.3	-1.9
6H	-3.5	-3.2	-3.1	-2.8	-2.4	-3.2	-2.8	-2.7	-2.4	-2.0
8H	-3.6	-3.3	-3.1	-2.8	-2.4	-3.2	-2.9	-2.8	-2.5	-2.1
12H	-3.6	-3.4	-3.2	-2.9	-2.4	-3.3	-3.0	-2.8	-2.6	-2.1
12H 4H	-3.4	-3.1	-3.0	-2.7	-2.3	-3.1	-2.7	-2.7	-2.4	-2.0
6H	-3.6	-3.3	-3.1	-2.8	-2.4	-3.2	-2.9	-2.8	-2.5	-2.1
8H	-3.6	-3.4	-3.2	-2.9	-2.4	-3.3	-3.0	-2.8	-2.6	-2.1
Variations with the observer position at spacings:										
S = 1.0H	+ 3.1 / -14.7					+ 3.1 / -13.8				
1.5H	+ 5.6 / -12.1					+ 5.5 / -11.8				
2.0H	+ 8.7 / - 7.7					+ 9.1 / - 8.0				

CIE Pub.117 Corrected 1180 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.6)

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, 25°lens
2#反射器, ADR8CC 98054

UTILIZATION FACTORS TABLE

Test:U:120.3V I:0.1158A P:12.49W PF:0.8965 Lamp Flux:1180.02x1 lm		
NAME: 15ADL/25°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/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	82	90	85	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	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					SHR NOM = 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:0.1158A P:12.49W PF:0.8965 Lamp Flux:1180.02x1 lm		
NAME: 15ADL/25°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/25°lens 120-277V	DIM.:	SERIAL No.:02
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

1174.3 lm

%lum = 99.5%

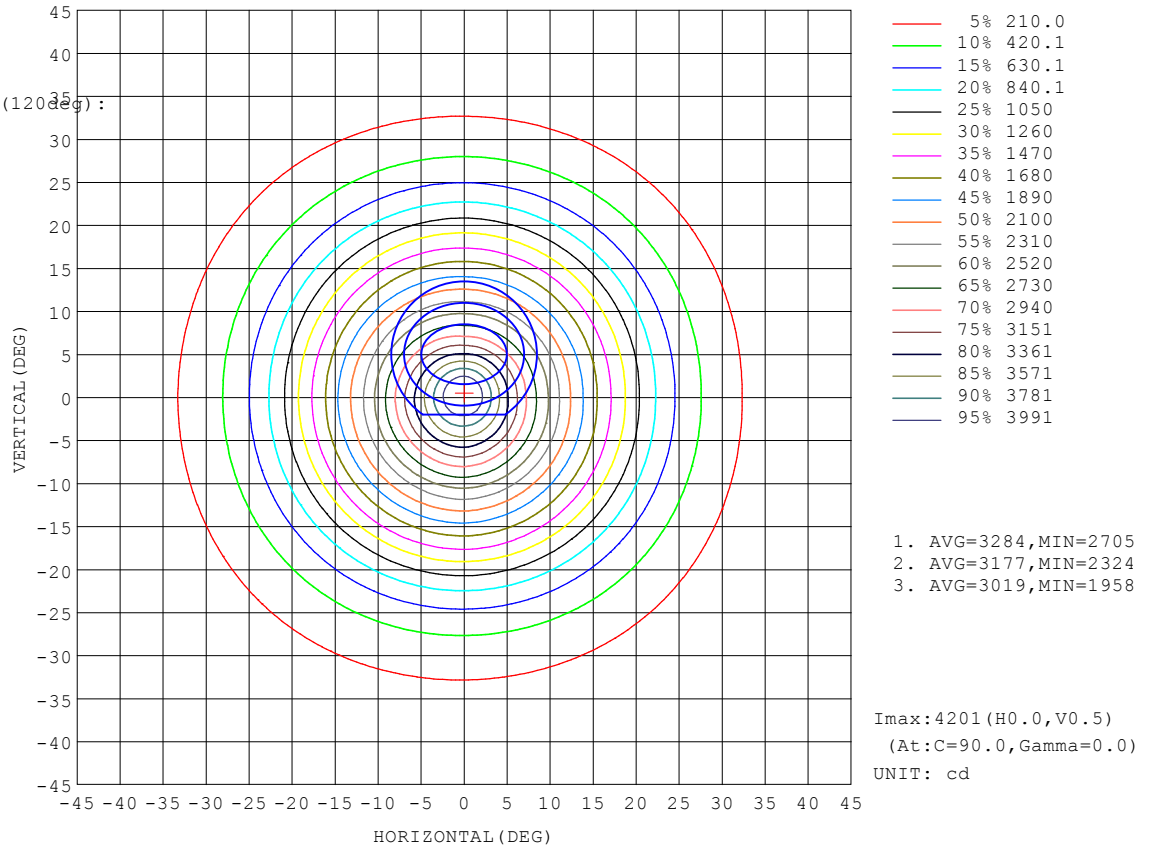
%lamp = 99.5%

Conical surface Flux(120deg):

1178.6 lm

%lum = 99.9%

%lamp = 99.9%

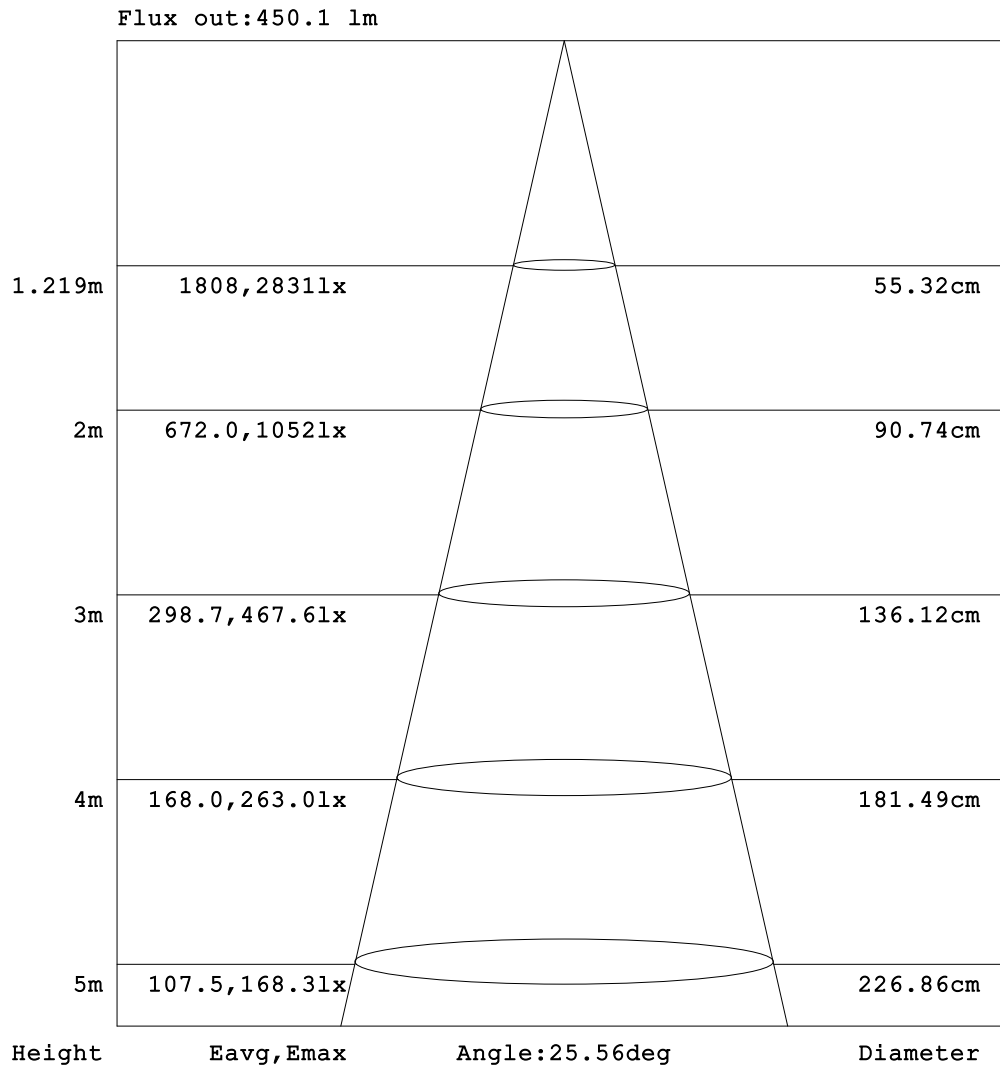


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Aaron
Test Date:2018-01-29

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:0.1158A P:12.49W PF:0.8965 Lamp Flux:1180.02x1 lm		
NAME: 15ADL/25°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/25°lens 120-277V	DIM.:	SERIAL No.:02
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:



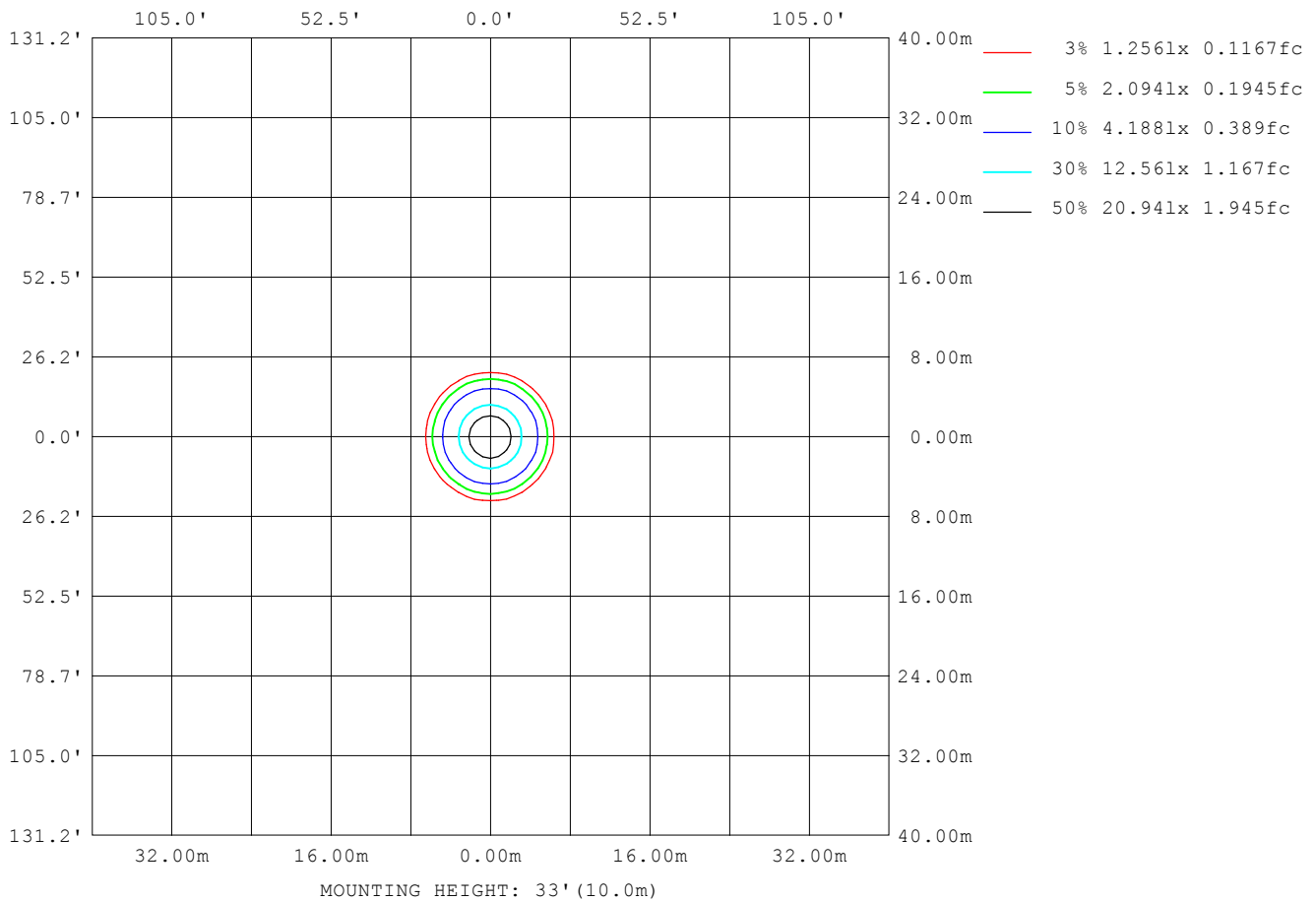
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

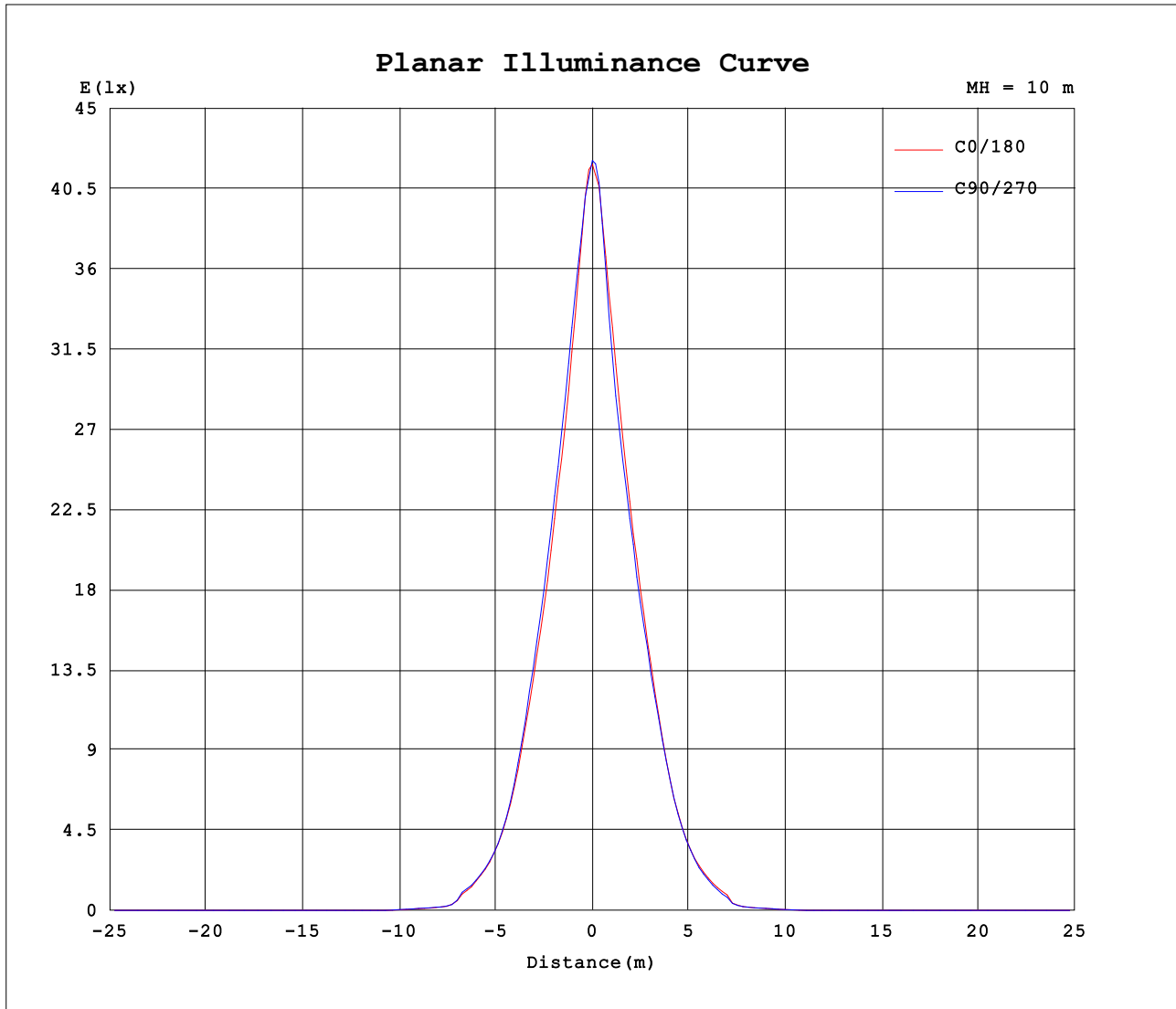
Test:U:120.3V I:0.1158A P:12.49W PF:0.8965 Lamp Flux:1180.02x1 lm		
NAME: 15ADL/25°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/25°lens 120-277V	DIM.:	SERIAL No.:02
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:



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:0.1158A P:12.49W PF:0.8965 Lamp Flux:1180.02x1 lm		
NAME: 15ADL/25°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/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	4188	4208	4188	4208															
5	3384	3510	3498	3375															
10	2492	2608	2587	2481															
15	1741	1840	1849	1774															
20	1101	1142	1160	1146															
25	588	598	627	625															
30	307	313	332	317															
35	101	105	161	137															
40	30.7	34.6	34.1	35.5															
45	13.2	16.0	16.3	17.0															
50	2.61	3.12	2.96	3.77															
55	1.38	1.72	1.58	2.12															
60	0.75	0.98	0.84	1.26															
65	0.40	0.54	0.44	0.75															
70	0.19	0.27	0.21	0.43															
75	0.04	0.09	0.04	0.20															
80	0.00	0.00	0.00	0.01															
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	0.00	0.00	0.00	0.00															
130	0.00	0.00	0.00	0.00															
135	0.06	0.07	0.06	0.04															
140	0.20	0.20	0.20	0.19															
145	0.36	0.38	0.35	0.33															
150	0.49	0.52	0.49	0.47															
155	0.61	0.62	0.59	0.57															
160	0.67	0.68	0.65	0.62															
165	0.70	0.70	0.65	0.64															
170	0.68	0.67	0.64	0.64															
175	0.64	0.63	0.64	0.63															
180	0.63	0.63	0.64	0.63															

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