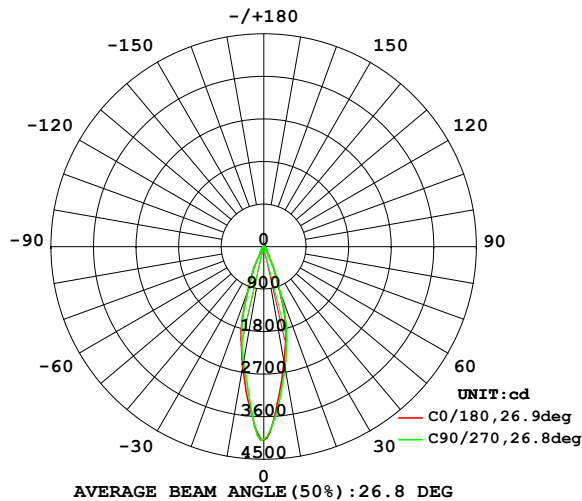


LUMINAIRE PHOTOMETRIC TEST REPORT

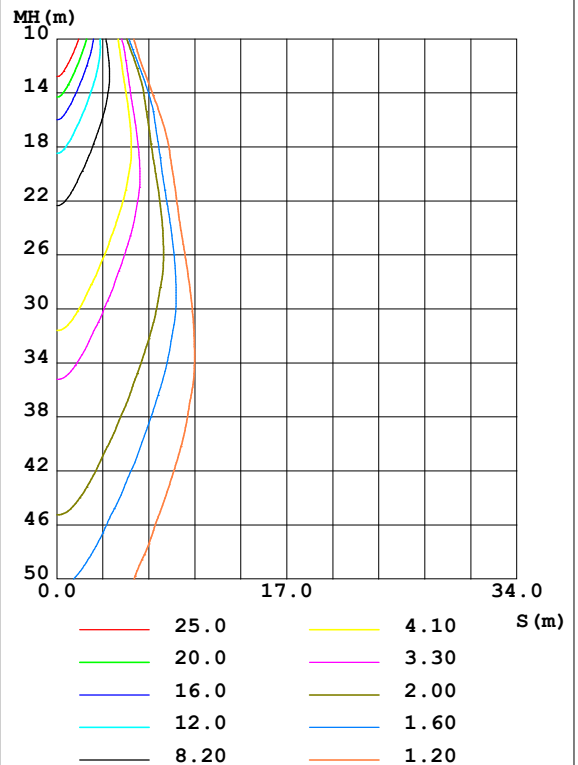
Test:U:120.3V I:0.1163A P:12.55W PF:0.8965 Lamp Flux:1134.75x1 lm		
NAME: 15ADL/25°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/25°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 90.44 lm/W			
MODEL		I _{max} (cd)	4099	S/MH (C0/180)	0.44
NOMINAL POWER (W)	15	LOR (%)	100.0	S/MH (C90/270)	0.44
RATED VOLTAGE (V)	120-277	TOTAL FLUX (lm)	1134.8	η UP, DN (C0-180)	0.0, 50.3
NOMINAL FLUX (lm)	1134.75	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 49.6
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
1#反射器, ADR4CC 98038

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum
10	2485	2585	2574	2491					0- 10	295.1	295.1	26
20	981.7	998.9	979.7	958.7					10- 20	489.0	784.1	69.1
30	170.0	167.9	159.3	159.9					20- 30	217.1	1001	88.2
40	86.19	90.17	82.66	85.32					30- 40	73.29	1074	94.7
50	25.56	28.62	24.82	26.82					40- 50	42.61	1117	98.4
60	5.884	6.947	5.621	6.552					50- 60	12.03	1129	99.5
70	1.790	2.188	1.663	2.064					60- 70	3.571	1133	99.8
80	0.4736	0.5744	0.4144	0.5813					70- 80	1.193	1134	99.9
90	0	0	0	0					80- 90	0.1507	1134	99.9
100	0	0	0	0					90-100	0	1134	99.9
110	0	0	0	0					100-110	0	1134	99.9
120	0	0	0	0					110-120	0	1134	99.9
130	0	0	0	0					120-130	0	1134	99.9
140	0.1657	0.1918	0.1916	0.1719					130-140	0.0407	1134	99.9
150	0.4595	0.4791	0.4597	0.4338					140-150	0.1998	1134	100
160	0.6381	0.6382	0.6127	0.5999					150-160	0.2573	1135	100
170	0.6063	0.5999	0.5808	0.5936					160-170	0.1759	1135	100
180	0.5872	0.5872	0.5872	0.5744					170-180	0.0551	1135	100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

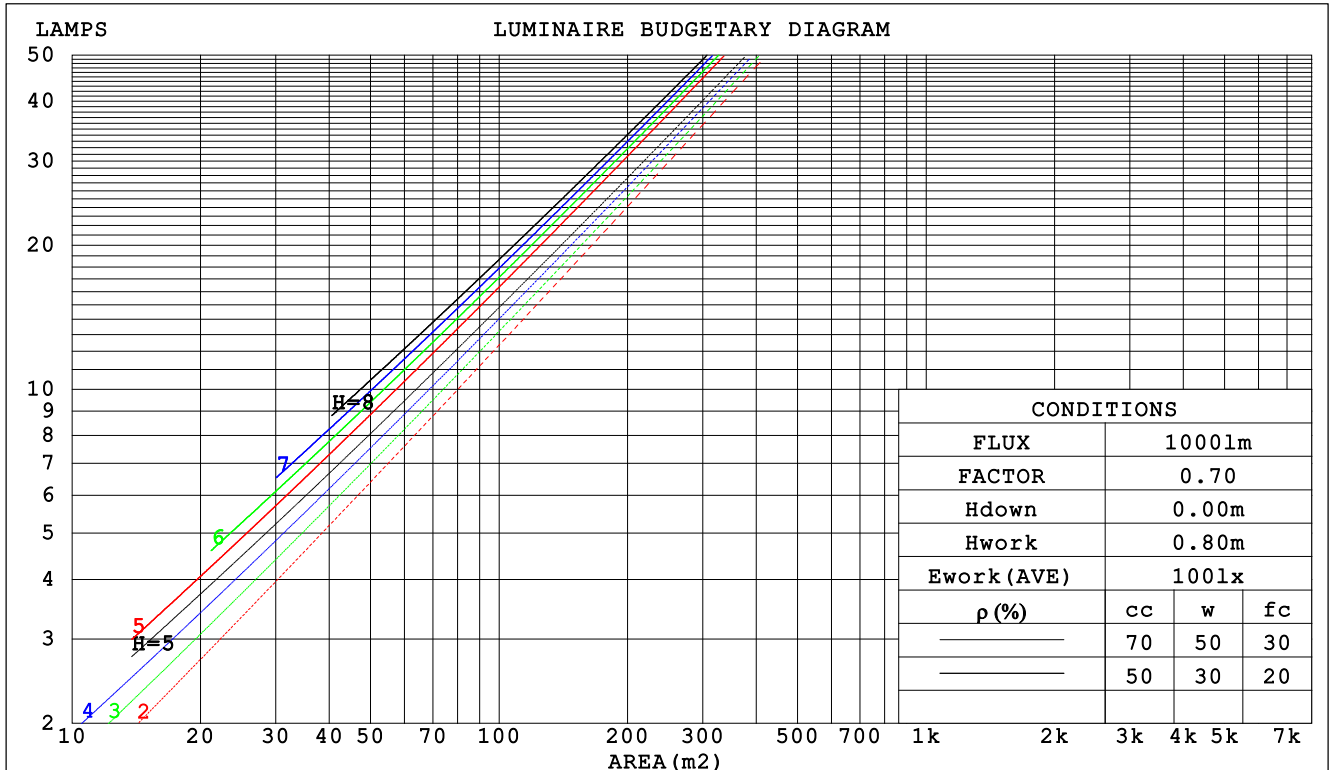
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Aaron
Test Date:2018-01-29

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
1#反射器, ADR4CC 98038

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.3V I:0.1163A P:12.55W PF:0.8965 Lamp Flux:1134.75x1 lm		
NAME: 15ADL/25°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/25°lens 120-277V	DIM.:	SERIAL No.:01
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)															
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	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.95
2.0	1.06	1.03	.00	1.04	1.01	.99	1.01	.99	.97	.98	.96	.95	.96	.94	.93	.91
3.0	1.01	.97	.93	.99	.96	.93	.97	.94	.91	.94	.92	.90	.92	.90	.88	.87
4.0	.96	.91	.88	.95	.91	.88	.93	.89	.86	.91	.88	.86	.89	.87	.85	.83
5.0	.92	.87	.83	.91	.86	.83	.89	.85	.82	.87	.84	.82	.86	.83	.81	.80
6.0	.88	.83	.80	.87	.83	.79	.86	.82	.79	.84	.81	.78	.83	.80	.78	.77
7.0	.84	.79	.76	.84	.79	.76	.82	.78	.76	.81	.78	.75	.80	.77	.75	.74
8.0	.81	.76	.73	.81	.76	.73	.80	.75	.73	.79	.75	.72	.78	.74	.72	.71
9.0	.78	.73	.70	.78	.73	.70	.77	.73	.70	.76	.72	.70	.75	.72	.70	.68
10.0	.75	.71	.68	.75	.71	.68	.74	.70	.68	.74	.70	.67	.73	.70	.67	.66



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
1#反射器, ADR4CC 98038

WEC AND CCEC

Test:U:120.3V I:0.1163A P:12.55W PF:0.8965 Lamp Flux:1134.75x1 lm		
NAME: 15ADL/25°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/25°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	.151	.086	.027	.144	.082	.026	.132	.076	.024	.120	.069	.022	.110	.064	.021		
2.0	.142	.078	.024	.136	.075	.023	.126	.070	.022	.116	.065	.020	.107	.061	.019		
3.0	.133	.071	.021	.129	.069	.021	.120	.065	.020	.112	.061	.019	.104	.058	.018		
4.0	.126	.065	.019	.122	.064	.019	.114	.061	.018	.107	.058	.017	.101	.055	.017		
5.0	.119	.061	.018	.116	.059	.017	.109	.057	.017	.103	.054	.016	.098	.052	.016		
6.0	.113	.057	.016	.110	.056	.016	.104	.054	.016	.099	.052	.015	.094	.050	.015		
7.0	.107	.053	.015	.105	.052	.015	.100	.051	.015	.095	.049	.014	.091	.047	.014		
8.0	.103	.050	.014	.100	.049	.014	.096	.048	.014	.092	.047	.013	.088	.045	.013		
9.0	.098	.047	.013	.096	.047	.013	.092	.046	.013	.089	.044	.013	.085	.043	.013		
10.0	.094	.045	.013	.092	.045	.012	.089	.043	.012	.086	.042	.012	.083	.042	.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	.147	.145	.136	.127	.099	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.153	.133	.117	.131	.115	.101	.090	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.139	.114	.094	.119	.098	.082	.082	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.127	.099	.077	.109	.085	.067	.075	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.117	.087	.064	.101	.075	.056	.069	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.109	.077	.054	.093	.067	.047	.064	.047	.033	.037	.027	.020	.012	.009	.007	
7.0	.101	.069	.046	.087	.060	.040	.060	.042	.029	.035	.025	.017	.011	.008	.006	
8.0	.095	.062	.040	.082	.054	.035	.057	.038	.025	.033	.022	.015	.011	.007	.005	
9.0	.090	.057	.035	.077	.049	.030	.054	.035	.021	.031	.020	.013	.010	.007	.004	
10.0	.085	.052	.030	.073	.045	.027	.051	.032	.019	.030	.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
1#反射器, ADR4CC 98038

UGR(Unified Glare Rating) Table

Test:U:120.3V I:0.1163A P:12.55W PF:0.8965 Lamp Flux:1134.75x1 lm										
NAME: 15ADL/25°lens 120-277V					TYPE:LED			WEIGHT:		
SPEC.:15ADL/25°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	-0.5	0.3	-0.3	0.4	0.6	-0.3	0.5	-0.1	0.6	0.8
3H	-0.6	0.1	-0.4	0.3	0.5	-0.4	0.3	-0.1	0.5	0.7
4H	-0.7	-0.0	-0.4	0.2	0.4	-0.4	0.2	-0.2	0.4	0.6
6H	-0.7	-0.1	-0.5	0.1	0.4	-0.5	0.1	-0.2	0.3	0.6
8H	-0.8	-0.2	-0.5	0.1	0.3	-0.6	0.0	-0.3	0.3	0.5
12H	-0.8	-0.3	-0.5	0.0	0.3	-0.6	-0.0	-0.3	0.2	0.5
4H 2H	-0.7	-0.0	-0.4	0.2	0.4	-0.5	0.2	-0.2	0.4	0.6
3H	-0.8	-0.2	-0.5	0.1	0.3	-0.6	0.0	-0.2	0.3	0.6
4H	-0.8	-0.3	-0.5	-0.0	0.3	-0.6	-0.1	-0.3	0.2	0.5
6H	-0.9	-0.5	-0.6	-0.1	0.2	-0.7	-0.2	-0.3	0.1	0.4
8H	-1.0	-0.5	-0.6	-0.2	0.2	-0.8	-0.3	-0.4	0.0	0.4
12H	-1.0	-0.6	-0.6	-0.3	0.1	-0.8	-0.4	-0.4	-0.0	0.3
8H 4H	-1.0	-0.5	-0.6	-0.2	0.2	-0.8	-0.3	-0.4	0.0	0.4
6H	-1.1	-0.7	-0.6	-0.3	0.1	-0.8	-0.5	-0.4	-0.1	0.3
8H	-1.1	-0.8	-0.7	-0.4	0.1	-0.9	-0.6	-0.5	-0.2	0.3
12H	-1.2	-0.9	-0.7	-0.5	0.0	-1.0	-0.7	-0.5	-0.2	0.2
12H 4H	-1.0	-0.6	-0.6	-0.3	0.1	-0.8	-0.4	-0.4	-0.0	0.3
6H	-1.1	-0.8	-0.7	-0.4	0.1	-0.9	-0.6	-0.5	-0.2	0.3
8H	-1.2	-0.9	-0.7	-0.5	0.0	-1.0	-0.7	-0.5	-0.2	0.2
Variations with the observer position at spacings:										
S = 1.0H	+ 2.4 / - 6.7					+ 2.3 / - 6.2				
1.5H	+ 2.9 / - 5.3					+ 2.7 / - 5.2				
2.0H	+ 5.6 / - 6.1					+ 5.7 / - 6.1				

CIE Pub.117 Corrected 1135 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.4)

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
1#反射器, ADR4CC 98038

UTILIZATION FACTORS TABLE

Test:U:120.3V I:0.1163A P:12.55W PF:0.8965 Lamp Flux:1134.75x1 lm		
NAME: 15ADL/25°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/25°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) $k(RI) \times RCR = 5$									
$k = 0.60$	88	82	78	88	82	78	87	81	78	75
0.80	96	90	86	95	90	86	94	89	86	82
1.00	100	94	91	99	94	91	97	94	90	86
1.25	104	99	95	103	98	95	101	97	94	90
1.50	106	102	99	105	101	98	103	100	97	93
2.00	109	105	102	108	104	101	105	102	100	94
2.50	111	107	104	109	106	103	106	103	101	95
3.00	112	109	106	110	107	105	107	105	103	96
4.00	114	111	109	112	110	108	108	107	105	98
5.00	115	113	111	113	111	110	109	108	107	99
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNM = 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
1#反射器, ADR4CC 98038

ISOCANDELA DIAGRAM

Test:U:120.3V I:0.1163A P:12.55W PF:0.8965 Lamp Flux:1134.75x1 lm		
NAME: 15ADL/25°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/25°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

1101.2 lm

%lum = 97.0%

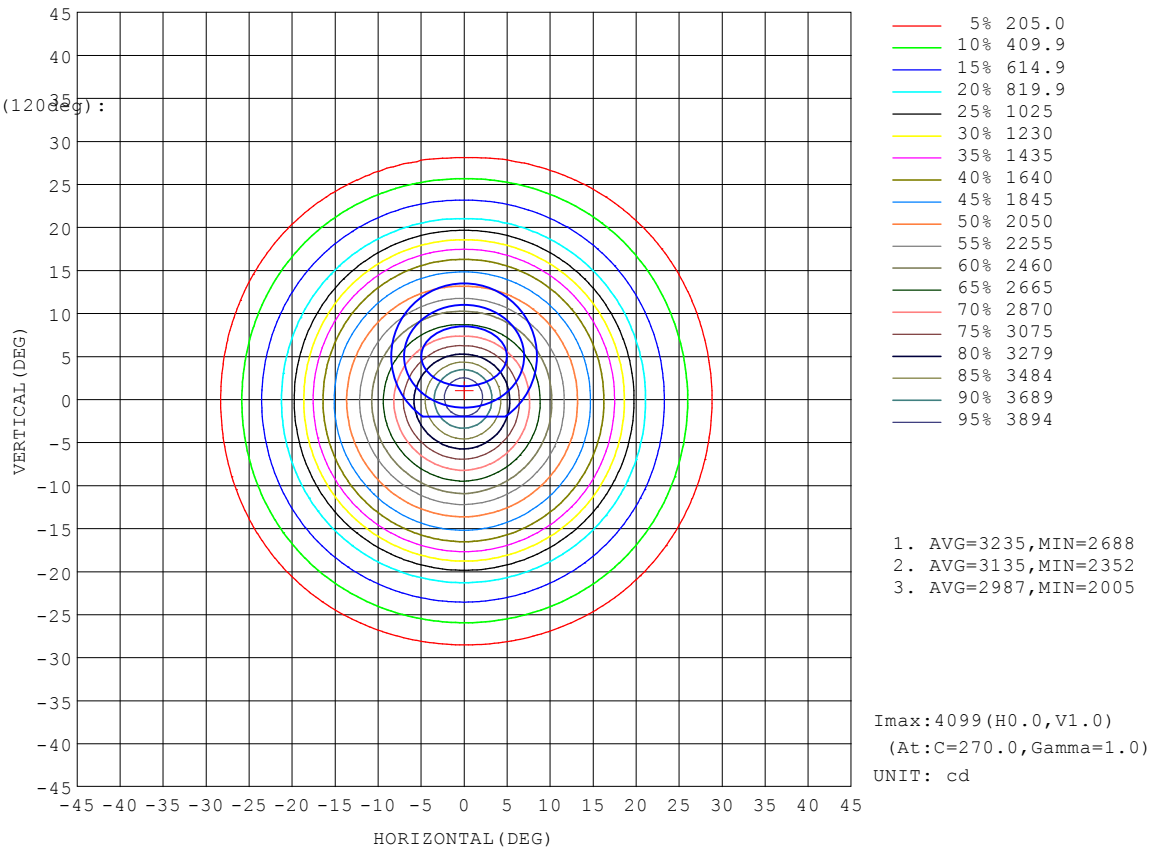
%lamp = 97.0%

Conical surface Flux(120deg):

1129.1 lm

%lum = 99.5%

%lamp = 99.5%

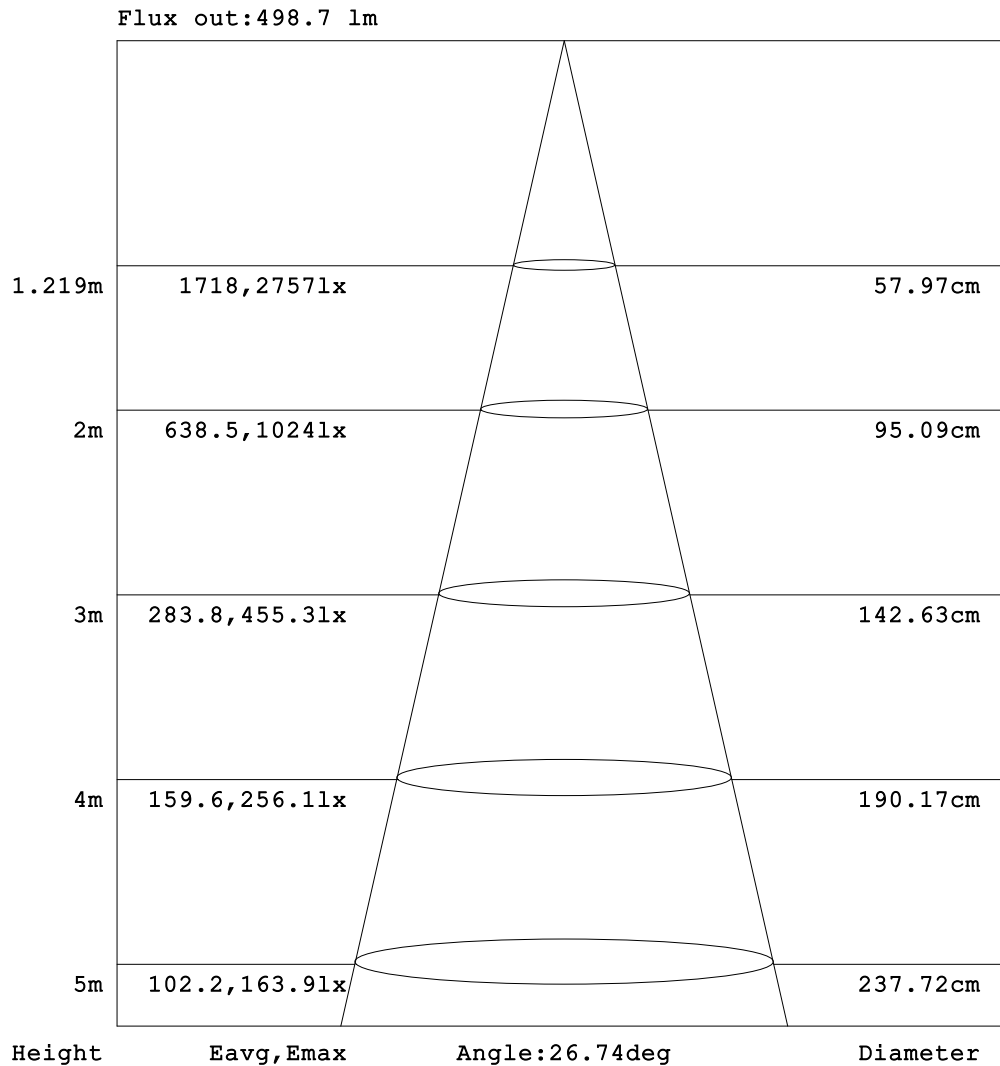


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Aaron
Test Date:2018-01-29

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
1#反射器, ADR4CC 98038

AAI Figure

Test:U:120.3V I:0.1163A P:12.55W PF:0.8965 Lamp Flux:1134.75x1 lm		
NAME: 15ADL/25°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/25°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:



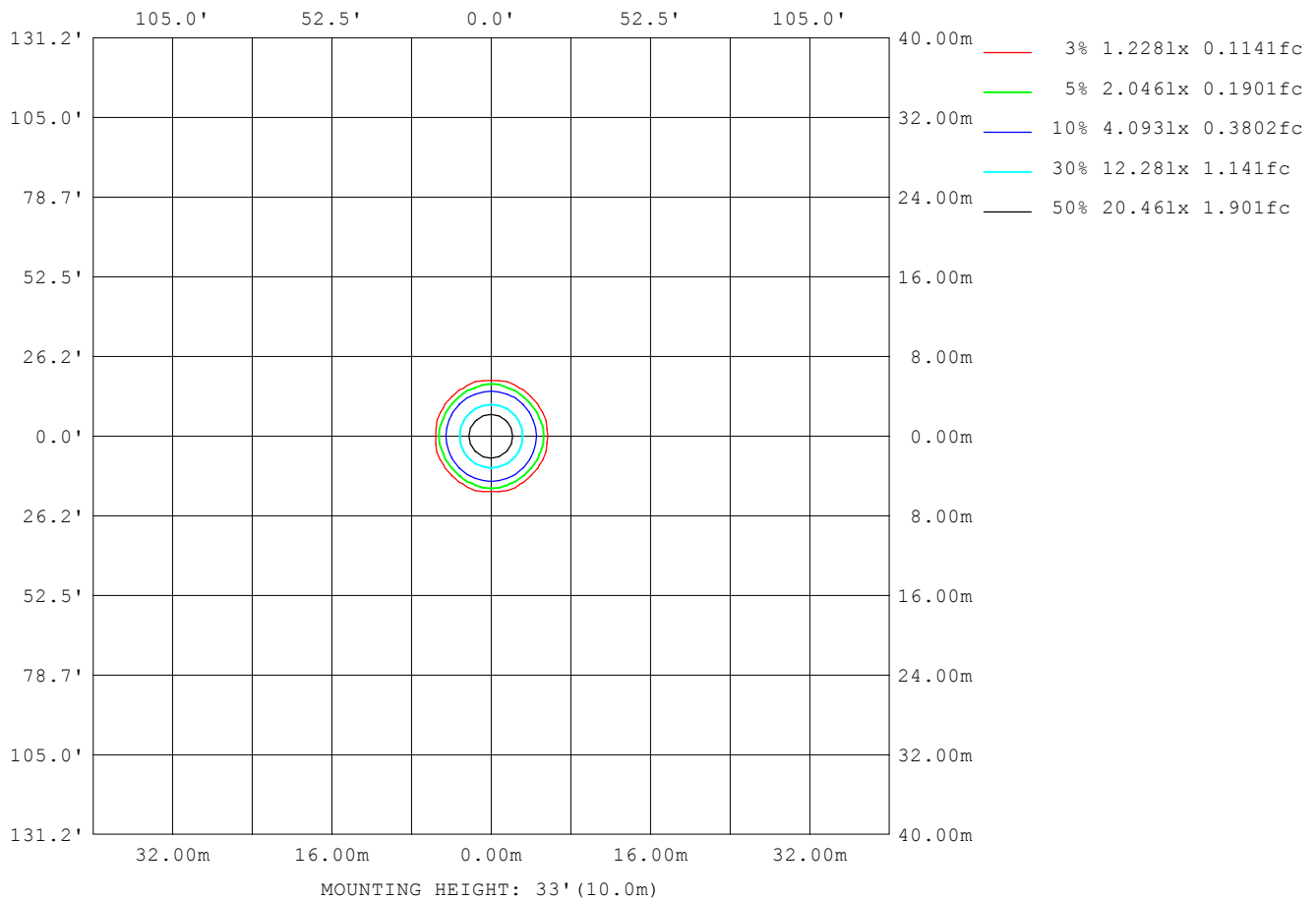
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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, 25°lens
1#反射器, ADR4CC 98038

ISOLUX DIAGRAM

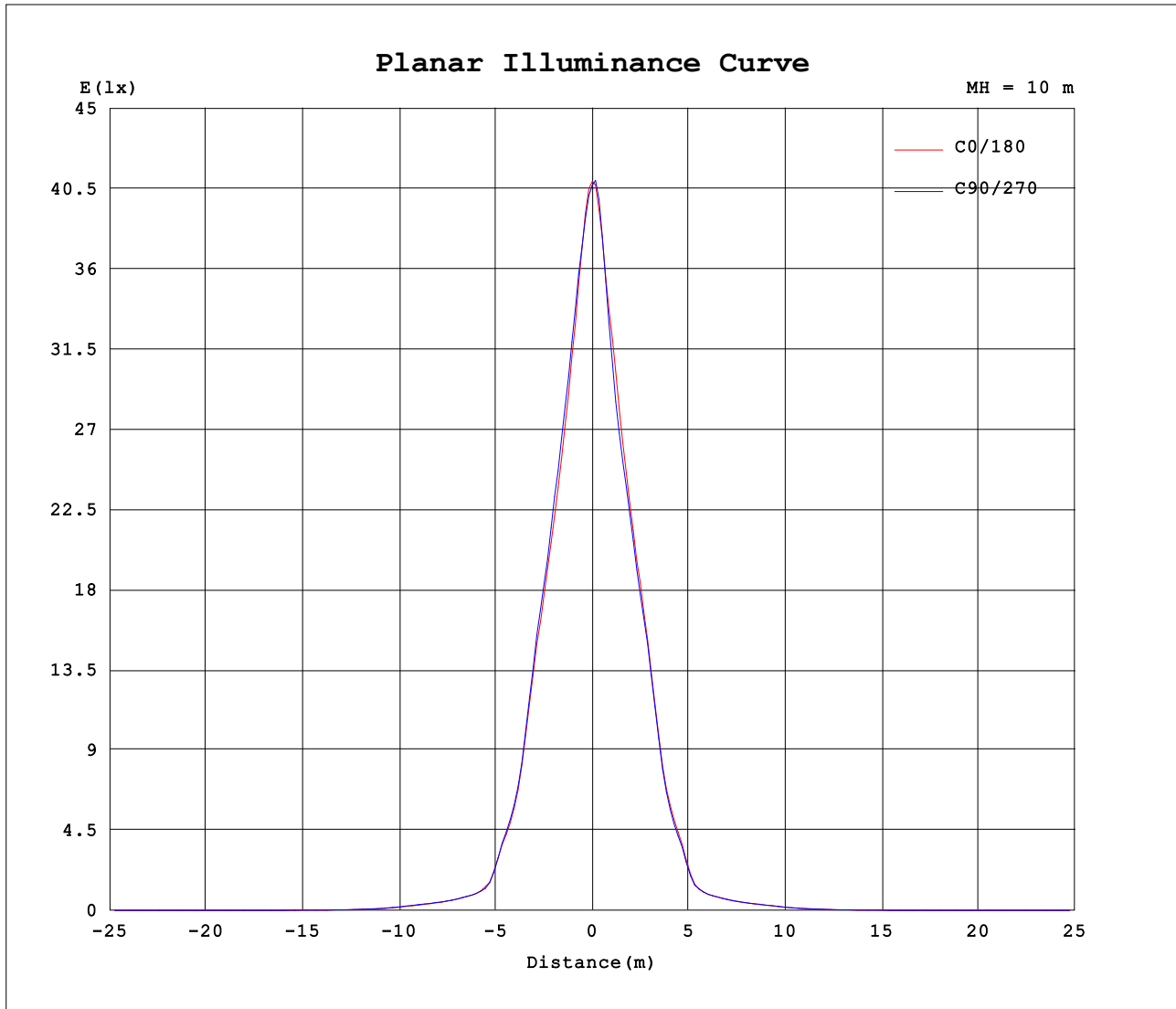
Test:U:120.3V I:0.1163A P:12.55W PF:0.8965 Lamp Flux:1134.75x1 lm		
NAME: 15ADL/25°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/25°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:



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, 25°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

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
 1#反射器, ADR4CC 98038

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.3V I:0.1163A P:12.55W PF:0.8965 Lamp Flux:1134.75x1 lm		
NAME: 15ADL/25°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/25°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	4093	4071	4093	4071															
5	3329	3416	3408	3331															
10	2485	2585	2574	2491															
15	1801	1877	1862	1822															
20	982	999	980	959															
25	501	510	499	479															
30	170	168	159	160															
35	117	118	112	114															
40	86.2	90.2	82.7	85.3															
45	55.2	58.8	52.8	55.4															
50	25.6	28.6	24.8	26.8															
55	11.7	13.5	11.3	12.7															
60	5.88	6.95	5.62	6.55															
65	3.16	3.82	2.99	3.60															
70	1.79	2.19	1.66	2.06															
75	1.02	1.24	0.91	1.19															
80	0.47	0.57	0.41	0.58															
85	0.05	0.06	0.00	0.08															
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	0.02	0.05	0.06	0.01															
140	0.17	0.19	0.19	0.17															
145	0.31	0.35	0.34	0.31															
150	0.46	0.48	0.46	0.43															
155	0.57	0.59	0.57	0.54															
160	0.64	0.64	0.61	0.60															
165	0.65	0.63	0.61	0.61															
170	0.61	0.60	0.58	0.59															
175	0.58	0.58	0.56	0.56															
180	0.59	0.59	0.59	0.57															

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
1#反射器, ADR4CC 98038