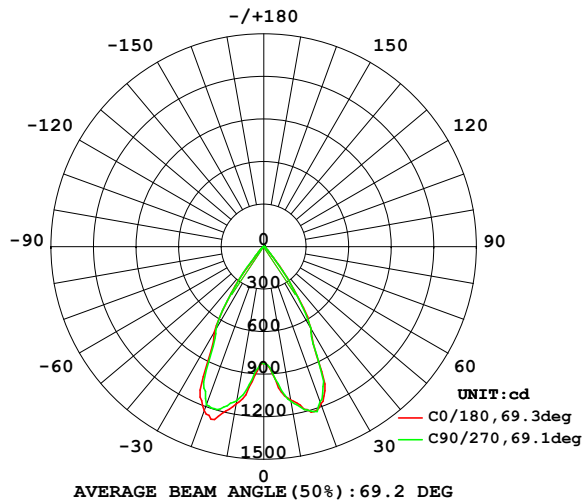


LUMINAIRE PHOTOMETRIC TEST REPORT

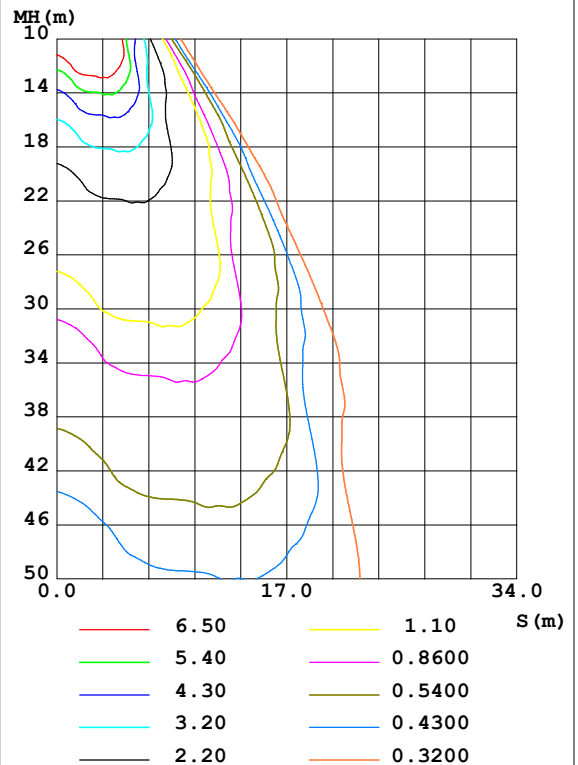
Test:U:120.4V I:0.1147A P:12.34W PF:0.8935 Lamp Flux:1167.96x1 lm		
NAME: 15ADL/60°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/60°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 94.62 lm/W			
MODEL		I _{max} (cd)	1274	S/MH (C0/180)	1.01
NOMINAL POWER (W)	15	LOR (%)	100.0	S/MH (C90/270)	1.00
RATED VOLTAGE (V)	120-277	TOTAL FLUX (lm)	1168.0	η UP, DN (C0-180)	0.0, 49.4
NOMINAL FLUX (lm)	1167.96	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.6
LAMPS INSIDE	1	η up (%)	0.1	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	120	η down (%)	99.9	CIBSE SHR MAX	0.60

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, 60°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	1098	1107	1125	1103					0- 10	96.04	96.04	8.22
20	1179	1164	1230	1186					10- 20	337.4	433.4	37.1
30	670.2	666.0	695.0	680.0					20- 30	429.4	862.9	73.9
40	130.3	126.6	118.7	141.8					30- 40	241.9	1105	94.6
50	24.80	27.75	25.01	26.62					40- 50	45.98	1151	98.5
60	5.834	6.764	5.746	6.505					50- 60	12.02	1163	99.6
70	1.648	1.939	1.535	1.858					60- 70	3.439	1166	99.9
80	0.3777	0.4200	0.3059	0.4344					70- 80	1.016	1167	99.9
90	0	0	0	0					80- 90	0.0964	1167	99.9
100	0	0	0	0					90-100	0	1167	99.9
110	0	0	0	0					100-110	0	1167	99.9
120	0	0	0	0					110-120	0	1167	99.9
130	0	0.0193	0.0065	0					120-130	0.0003	1167	99.9
140	0.1912	0.2043	0.1787	0.1531					130-140	0.0666	1167	100
150	0.3380	0.3704	0.3511	0.3190					140-150	0.1638	1168	100
160	0.4720	0.5042	0.4851	0.4467					150-160	0.1894	1168	100
170	0.5871	0.6255	0.6130	0.5935					160-170	0.1505	1168	100
180	0.6957	0.7020	0.6957	0.6957					170-180	0.0612	1168	100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

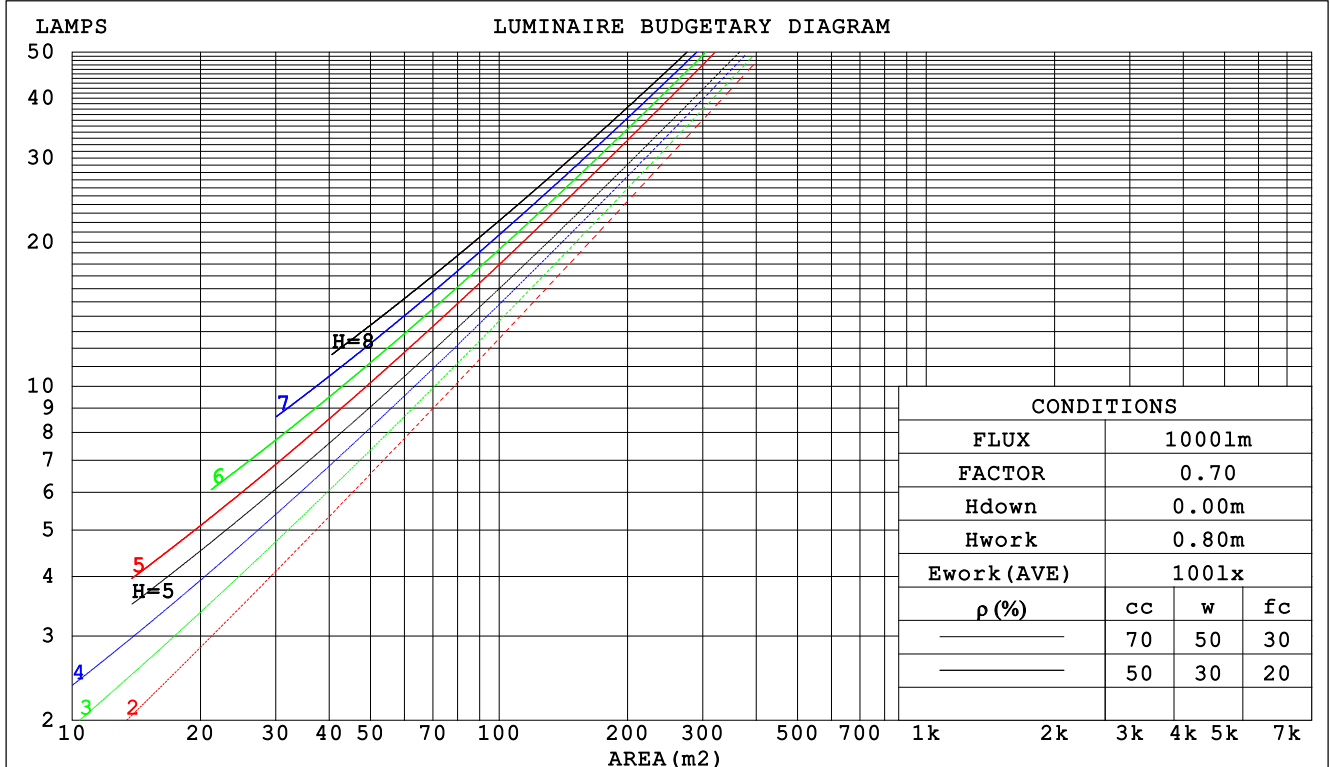
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Aaron
Test Date:2018-01-29

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, 60°lens
1#反射器, ADR4CC 98038

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.4V I:0.1147A P:12.34W PF:0.8935 Lamp Flux:1167.96x1 lm		
NAME: 15ADL/60°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/60°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	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	1.08	1.06	1.09	1.06	1.04	1.05	1.03	1.01	1.01	.99	.98	.97	.96	.95	.94
2.0	1.03	.99	.96	1.01	.98	.95	.98	.95	.93	.95	.93	.91	.92	.90	.89	.87
3.0	.96	.91	.87	.95	.90	.87	.92	.88	.85	.90	.87	.84	.87	.85	.83	.81
4.0	.90	.84	.80	.89	.84	.80	.87	.82	.79	.85	.81	.78	.83	.80	.77	.75
5.0	.84	.78	.74	.83	.78	.74	.81	.77	.73	.80	.76	.72	.78	.75	.72	.70
6.0	.79	.73	.69	.78	.73	.68	.77	.72	.68	.75	.71	.67	.74	.70	.67	.66
7.0	.74	.68	.64	.73	.68	.64	.72	.67	.63	.71	.66	.63	.70	.66	.63	.61
8.0	.70	.64	.60	.69	.64	.60	.68	.63	.59	.67	.62	.59	.66	.62	.59	.57
9.0	.66	.60	.56	.65	.60	.56	.64	.59	.56	.63	.59	.55	.63	.58	.55	.54
10.0	.62	.56	.52	.62	.56	.52	.61	.56	.52	.60	.55	.52	.59	.55	.52	.51



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, 60°lens
1#反射器, ADR4CC 98038

WEC AND CCEC

Test:U:120.4V I:0.1147A P:12.34W PF:0.8935 Lamp Flux:1167.96x1 lm		
NAME: 15ADL/60°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/60°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	.177	.101	.032	.171	.097	.031	.158	.091	.029	.146	.084	.027	.136	.079	.025		
2.0	.170	.093	.029	.164	.090	.028	.154	.085	.027	.144	.081	.025	.135	.076	.024		
3.0	.162	.086	.026	.157	.084	.025	.148	.080	.024	.140	.077	.024	.132	.073	.023		
4.0	.155	.080	.024	.151	.079	.023	.143	.076	.023	.135	.073	.022	.129	.070	.021		
5.0	.148	.075	.022	.144	.074	.022	.137	.072	.021	.131	.069	.021	.125	.067	.020		
6.0	.141	.071	.020	.138	.070	.020	.132	.068	.020	.127	.066	.019	.121	.064	.019		
7.0	.135	.067	.019	.133	.066	.019	.127	.064	.019	.122	.063	.018	.117	.061	.018		
8.0	.130	.063	.018	.127	.063	.018	.122	.061	.017	.118	.060	.017	.114	.058	.017		
9.0	.125	.060	.017	.122	.060	.017	.118	.058	.017	.114	.057	.016	.110	.056	.016		
10.0	.120	.057	.016	.118	.057	.016	.114	.056	.016	.110	.055	.016	.107	.054	.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	.172	.158	.145	.147	.135	.125	.100	.093	.086	.058	.054	.050	.019	.017	.016		
2.0	.156	.133	.113	.134	.114	.098	.092	.079	.068	.053	.046	.040	.017	.015	.013		
3.0	.144	.114	.090	.124	.098	.078	.085	.068	.055	.049	.040	.032	.016	.013	.011		
4.0	.134	.099	.073	.115	.086	.063	.079	.060	.045	.046	.035	.026	.015	.011	.009		
5.0	.125	.088	.060	.108	.076	.052	.074	.053	.037	.043	.031	.022	.014	.010	.007		
6.0	.118	.078	.050	.102	.068	.044	.070	.048	.031	.041	.028	.018	.013	.009	.006		
7.0	.112	.071	.042	.096	.062	.037	.066	.043	.026	.039	.025	.016	.012	.008	.005		
8.0	.106	.065	.036	.092	.056	.032	.063	.039	.022	.037	.023	.013	.012	.008	.004		
9.0	.101	.060	.031	.087	.052	.027	.060	.036	.019	.035	.021	.012	.011	.007	.004		
10.0	.097	.055	.028	.084	.048	.024	.058	.034	.017	.034	.020	.010	.011	.007	.003		

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, 60°lens
1#反射器, ADR4CC 98038

UGR(Unified Glare Rating) Table

Test:U:120.4V I:0.1147A P:12.34W PF:0.8935 Lamp Flux:1167.96x1 lm										
NAME: 15ADL/60°lens 120-277V					TYPE:LED			WEIGHT:		
SPEC.:15ADL/60°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	5.1	6.1	5.4	6.3	6.4	5.0	6.0	5.3	6.2	6.3
3H	5.0	5.8	5.2	6.0	6.2	4.9	5.8	5.1	6.0	6.2
4H	4.9	5.7	5.2	5.9	6.2	4.8	5.6	5.1	5.8	6.1
6H	4.8	5.6	5.1	5.8	6.1	4.7	5.5	5.0	5.7	6.0
8H	4.7	5.5	5.1	5.7	6.0	4.7	5.4	5.0	5.7	5.9
12H	4.7	5.4	5.0	5.7	6.0	4.6	5.3	4.9	5.6	5.9
4H 2H	4.9	5.7	5.2	5.9	6.2	4.8	5.6	5.1	5.8	6.1
3H	4.7	5.4	5.0	5.7	6.0	4.6	5.3	4.9	5.6	5.9
4H	4.6	5.3	5.0	5.6	5.9	4.5	5.2	4.9	5.5	5.8
6H	4.5	5.1	4.9	5.4	5.8	4.4	5.0	4.8	5.3	5.7
8H	4.5	5.0	4.9	5.4	5.7	4.4	4.9	4.8	5.3	5.6
12H	4.4	4.9	4.8	5.3	5.7	4.3	4.8	4.8	5.2	5.6
8H 4H	4.5	5.0	4.9	5.4	5.7	4.4	4.9	4.8	5.3	5.6
6H	4.4	4.8	4.8	5.2	5.6	4.3	4.7	4.7	5.1	5.5
8H	4.3	4.7	4.8	5.1	5.6	4.2	4.6	4.7	5.0	5.5
12H	4.3	4.6	4.7	5.0	5.5	4.2	4.5	4.7	5.0	5.4
12H 4H	4.4	4.9	4.8	5.3	5.7	4.3	4.8	4.8	5.2	5.6
6H	4.3	4.7	4.8	5.1	5.6	4.2	4.6	4.7	5.0	5.5
8H	4.3	4.6	4.7	5.0	5.5	4.2	4.5	4.7	5.0	5.4
Variations with the observer position at spacings:										
S = 1.0H	+ 4.1 / -11.4					+ 4.2 / -10.4				
1.5H	+ 6.4 / - 8.9					+ 6.4 / - 8.3				
2.0H	+ 5.5 / - 6.4					+ 5.5 / - 6.4				

CIE Pub.117 Corrected 1168 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.5)

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, 60°lens
1#反射器, ADR4CC 98038

UTILIZATION FACTORS TABLE

Test:U:120.4V I:0.1147A P:12.34W PF:0.8935 Lamp Flux:1167.96x1 lm		
NAME: 15ADL/60°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/60°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	89	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, 60°lens
1#反射器, ADR4CC 98038

ISOCANDELA DIAGRAM

Test:U:120.4V I:0.1147A P:12.34W PF:0.8935 Lamp Flux:1167.96x1 lm		
NAME: 15ADL/60°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/60°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

1135.3 lm

%lum = 97.2%

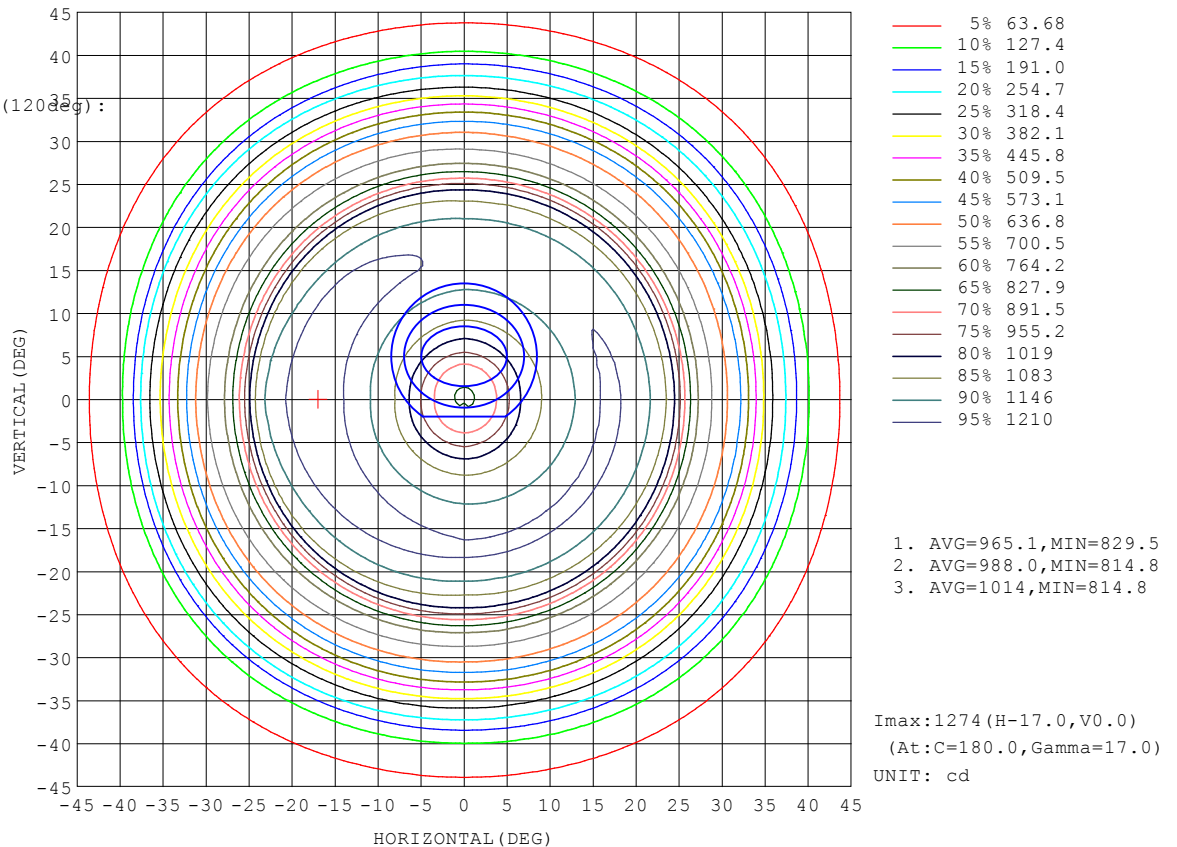
%lamp = 97.2%

Conical surface Flux(120deg):

1162.8 lm

%lum = 99.6%

%lamp = 99.6%

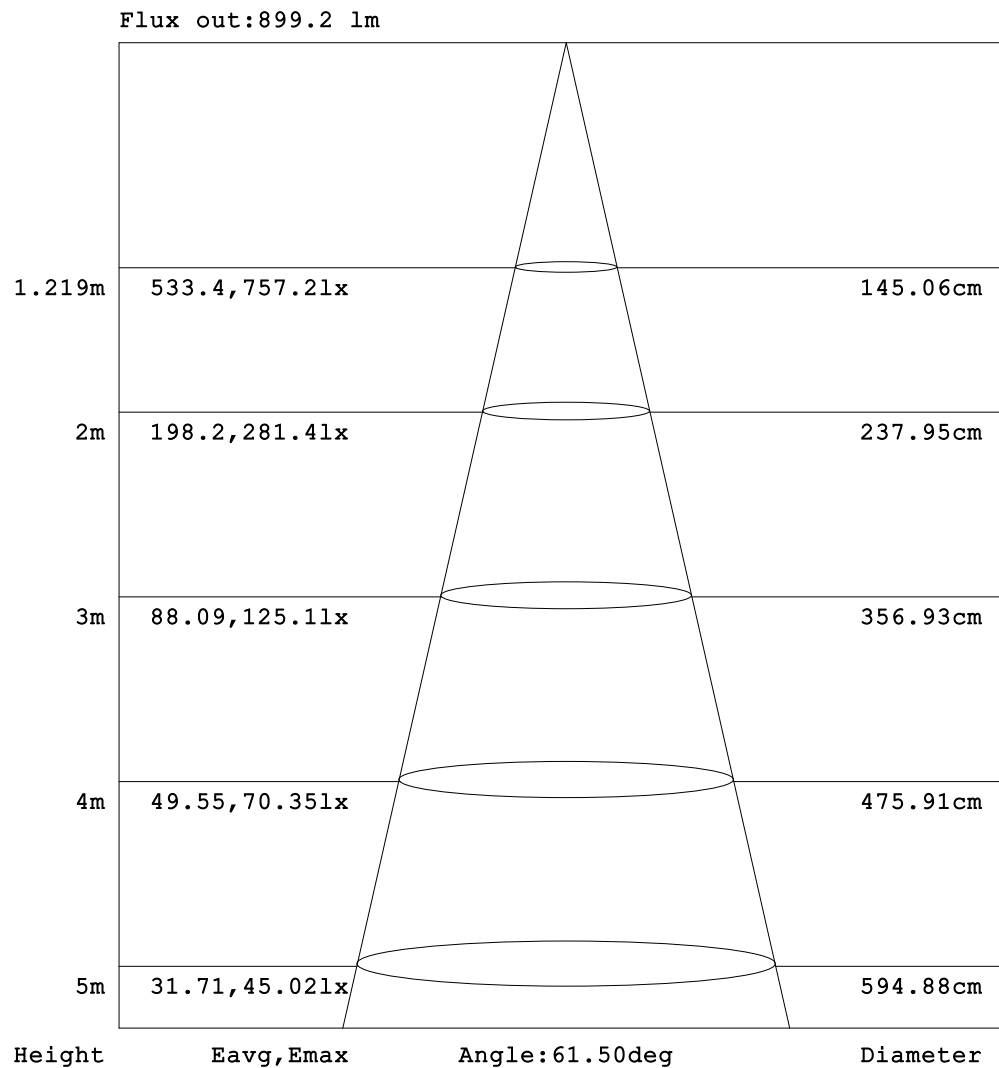


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Aaron
Test Date:2018-01-29

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, 60°lens
1#反射器, ADR4CC 98038

AAI Figure

Test:U:120.4V I:0.1147A P:12.34W PF:0.8935 Lamp Flux:1167.96x1 lm		
NAME: 15ADL/60°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/60°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:



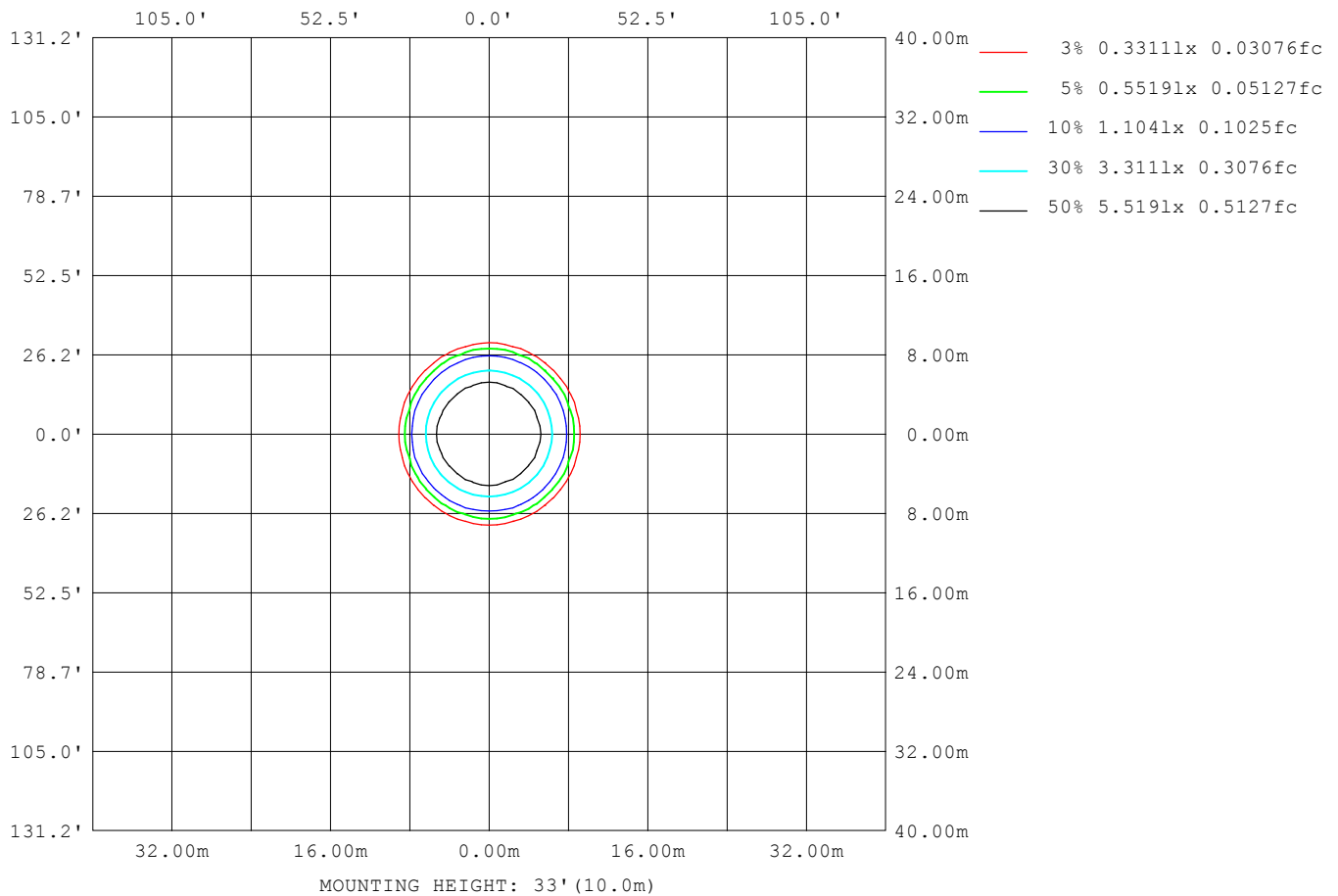
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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, 60°lens
1#反射器, ADR4CC 98038

ISOLUX DIAGRAM

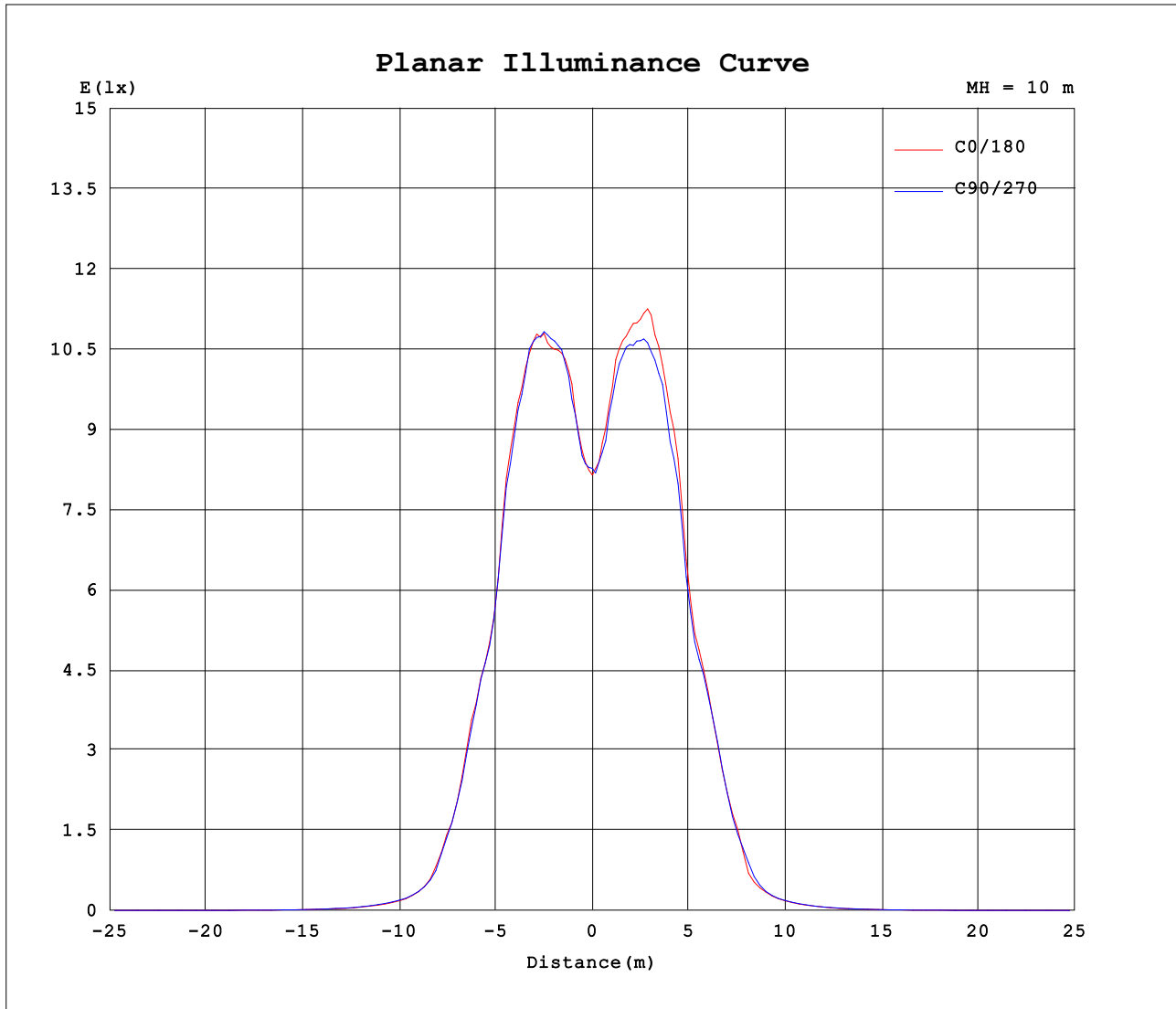
Test:U:120.4V I:0.1147A P:12.34W PF:0.8935 Lamp Flux:1167.96x1 lm		
NAME: 15ADL/60°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/60°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:



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, 60°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, 60° lens
 1#反射器, ADR4CC 98038

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.4V I:0.1147A P:12.34W PF:0.8935 Lamp Flux:1167.96x1 lm		
NAME: 15ADL/60°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/60°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	815	827	815	827															
5	939	938	954	938															
10	1098	1107	1125	1103															
15	1190	1192	1240	1186															
20	1179	1164	1230	1186															
25	971	950	1013	964															
30	670	666	695	680															
35	371	369	403	401															
40	130	127	119	142															
45	52.4	55.4	51.9	53.2															
50	24.8	27.8	25.0	26.6															
55	11.7	13.2	11.6	12.8															
60	5.83	6.76	5.75	6.51															
65	3.03	3.58	2.93	3.44															
70	1.65	1.94	1.54	1.86															
75	0.87	1.01	0.78	0.98															
80	0.38	0.42	0.31	0.43															
85	0.00	0.00	0.00	0.01															
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	0.02	0.01	0.00															
135	0.08	0.11	0.09	0.08															
140	0.19	0.20	0.18	0.15															
145	0.27	0.28	0.27	0.24															
150	0.34	0.37	0.35	0.32															
155	0.41	0.43	0.42	0.40															
160	0.47	0.50	0.49	0.45															
165	0.52	0.55	0.55	0.52															
170	0.59	0.63	0.61	0.59															
175	0.63	0.67	0.67	0.65															
180	0.70	0.70	0.70	0.70															

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, 60°lens
1#反射器, ADR4CC 98038