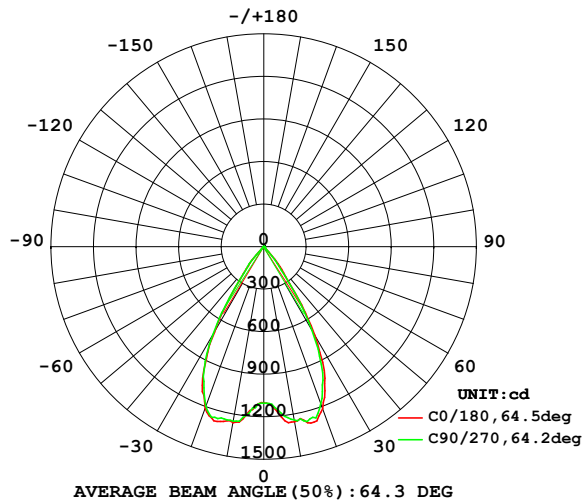


LUMINAIRE PHOTOMETRIC TEST REPORT

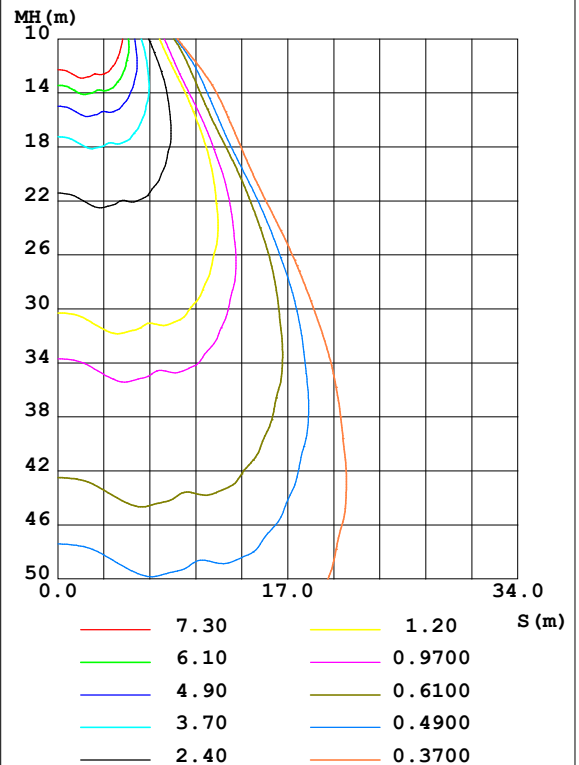
Test:U:120.4V I:0.1136A P:12.18W PF:0.8908 Lamp Flux:1180.92x1 lm		
NAME: 15ADL/60°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/60°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 96.96 lm/W			
MODEL		I _{max} (cd)	1287	S/MH (C0/180)	0.93
NOMINAL POWER (W)	15	LOR (%)	100.0	S/MH (C90/270)	0.94
RATED VOLTAGE (V)	120-277	TOTAL FLUX (lm)	1180.9	η UP, DN (C0-180)	0.0, 49.5
NOMINAL FLUX (lm)	1180.92	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	0.65

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: 2018-01-29

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, ADR6CC 98046

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum
10	1254	1241	1260	1248					0- 10	114.9	114.9	9.73
20	1216	1176	1213	1199					10- 20	354.7	469.6	39.8
30	719.5	677.2	698.1	718.3					20- 30	449.5	919.0	77.8
40	160.4	127.6	155.0	161.8					30- 40	227.1	1146	97.1
50	7.424	7.793	7.335	8.156					40- 50	28.49	1175	99.5
60	2.107	2.351	2.112	2.415					50- 60	3.875	1178	99.8
70	0.6778	0.7781	0.6635	0.7995					60- 70	1.340	1180	99.9
80	0.0902	0.0893	0.0695	0.1473					70- 80	0.4047	1180	99.9
90	0	0	0	0					80- 90	0.0113	1180	99.9
100	0	0	0	0					90-100	0	1180	99.9
110	0	0	0	0					100-110	0	1180	99.9
120	0	0	0	0					110-120	0	1180	99.9
130	0	0.0193	0.0065	0					120-130	0.0004	1180	99.9
140	0.1975	0.2170	0.1980	0.1723					130-140	0.0704	1180	99.9
150	0.3636	0.3959	0.3830	0.3380					140-150	0.1770	1180	100
160	0.4915	0.5362	0.5233	0.4976					150-160	0.2027	1181	100
170	0.6126	0.6512	0.6510	0.6126					160-170	0.1594	1181	100
180	0.7084	0.7084	0.7148	0.7084					170-180	0.0638	1181	100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

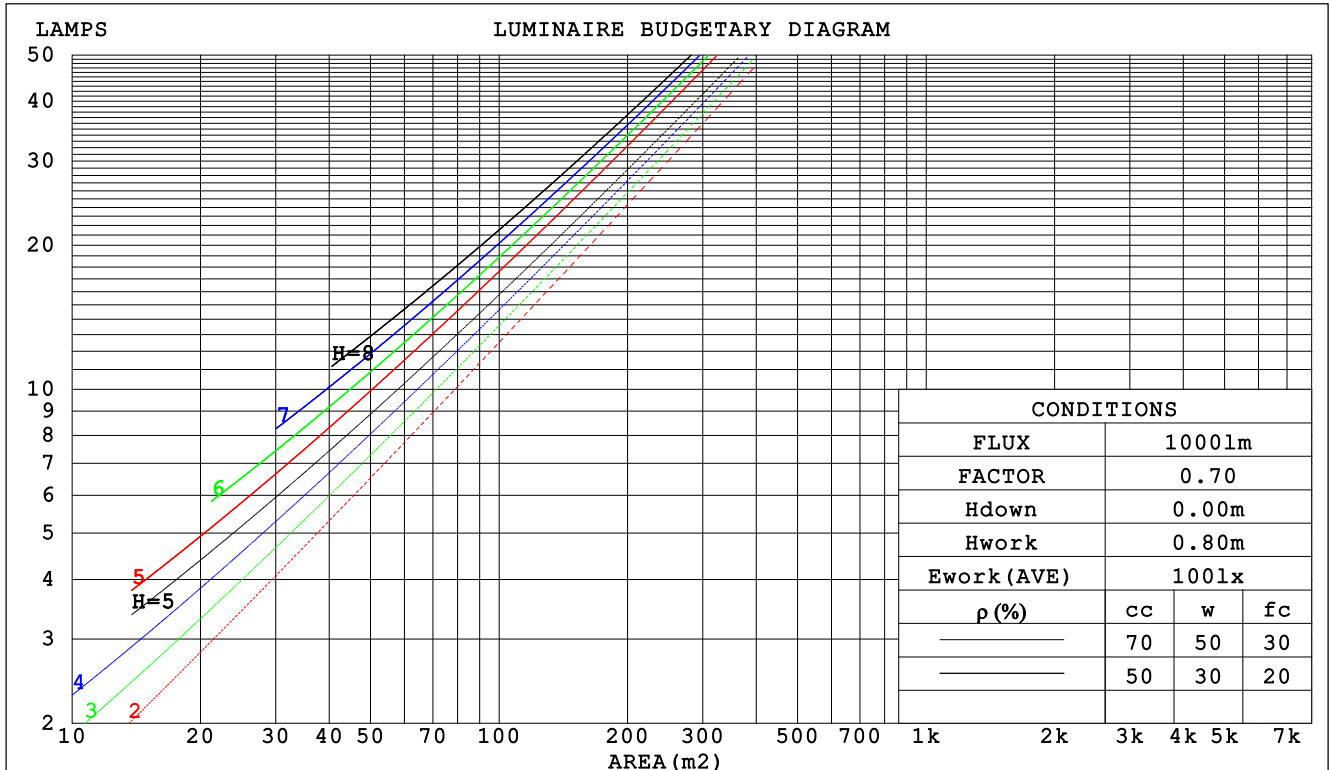
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Aaron
Test Date:2018-01-29

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, ADR6CC 98046

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.4V I:0.1136A P:12.18W PF:0.8908 Lamp Flux:1180.92x1 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	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	1.11	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	.00	.97	1.02	.98	.96	.99	.96	.93	.96	.93	.91	.93	.91	.89	.88
3.0	.97	.92	.88	.96	.91	.88	.93	.89	.86	.91	.88	.85	.88	.86	.84	.82
4.0	.91	.86	.82	.90	.85	.81	.88	.84	.80	.86	.82	.79	.84	.81	.78	.77
5.0	.85	.80	.76	.85	.79	.75	.83	.78	.75	.81	.77	.74	.80	.76	.73	.72
6.0	.80	.75	.71	.80	.74	.70	.78	.73	.70	.77	.73	.69	.75	.72	.69	.67
7.0	.76	.70	.66	.75	.70	.66	.74	.69	.65	.73	.68	.65	.72	.68	.65	.63
8.0	.72	.66	.62	.71	.65	.62	.70	.65	.61	.69	.64	.61	.68	.64	.61	.60
9.0	.68	.62	.58	.67	.62	.58	.66	.61	.58	.65	.61	.58	.65	.60	.57	.56
10.0	.64	.58	.55	.64	.58	.55	.63	.58	.54	.62	.57	.54	.61	.57	.54	.53



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, ADR6CC 98046

WEC AND CCEC

Test:U:120.4V I:0.1136A P:12.18W PF:0.8908 Lamp Flux:1180.92x1 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	.172	.098	.031	.165	.094	.030	.153	.088	.028	.141	.081	.026	.130	.076	.024		
2.0	.164	.090	.028	.159	.087	.027	.148	.082	.026	.138	.078	.024	.129	.073	.023		
3.0	.157	.083	.025	.152	.081	.024	.143	.077	.024	.134	.074	.023	.127	.070	.022		
4.0	.149	.078	.023	.145	.076	.022	.137	.073	.022	.130	.070	.021	.124	.067	.020		
5.0	.143	.073	.021	.139	.071	.021	.132	.069	.020	.126	.066	.020	.120	.064	.019		
6.0	.136	.068	.020	.133	.067	.019	.127	.065	.019	.122	.063	.019	.117	.061	.018		
7.0	.131	.065	.018	.128	.064	.018	.123	.062	.018	.118	.060	.018	.113	.059	.017		
8.0	.125	.061	.017	.123	.061	.017	.118	.059	.017	.114	.058	.017	.110	.056	.016		
9.0	.121	.058	.016	.118	.058	.016	.114	.056	.016	.110	.055	.016	.106	.054	.016		
10.0	.116	.056	.015	.114	.055	.015	.110	.054	.015	.107	.053	.015	.103	.052	.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	.146	.135	.125	.100	.093	.087	.058	.054	.050	.018	.017	.016	
2.0	.156	.133	.114	.133	.114	.098	.091	.079	.069	.053	.046	.040	.017	.015	.013	
3.0	.143	.114	.091	.123	.098	.079	.084	.068	.055	.049	.040	.033	.016	.013	.011	
4.0	.133	.099	.074	.114	.086	.064	.078	.060	.045	.045	.035	.027	.015	.011	.009	
5.0	.124	.088	.061	.106	.076	.053	.073	.053	.037	.042	.031	.022	.014	.010	.007	
6.0	.117	.078	.051	.100	.068	.044	.069	.047	.031	.040	.028	.019	.013	.009	.006	
7.0	.110	.071	.043	.095	.061	.037	.065	.043	.027	.038	.025	.016	.012	.008	.005	
8.0	.105	.064	.037	.090	.056	.032	.062	.039	.023	.036	.023	.014	.012	.008	.004	
9.0	.100	.059	.032	.086	.051	.028	.059	.036	.020	.035	.021	.012	.011	.007	.004	
10.0	.095	.055	.028	.082	.048	.024	.057	.034	.017	.033	.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, ADR6CC 98046

UGR(Unified Glare Rating) Table

Test:U:120.4V I:0.1136A P:12.18W PF:0.8908 Lamp Flux:1180.92x1 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	4.1	5.0	4.3	5.2	5.4	3.8	4.8	4.1	4.9	5.1
3H	3.9	4.8	4.2	5.0	5.2	3.7	4.5	3.9	4.7	4.9
4H	3.9	4.7	4.1	4.9	5.1	3.6	4.4	3.9	4.6	4.8
6H	3.8	4.5	4.1	4.8	5.0	3.5	4.2	3.8	4.5	4.7
8H	3.7	4.4	4.0	4.7	5.0	3.5	4.2	3.8	4.4	4.7
12H	3.7	4.4	4.0	4.6	4.9	3.4	4.1	3.7	4.4	4.6
4H 2H	3.9	4.6	4.1	4.9	5.1	3.6	4.4	3.9	4.6	4.8
3H	3.7	4.4	4.0	4.6	4.9	3.4	4.1	3.7	4.4	4.6
4H	3.6	4.2	3.9	4.5	4.8	3.3	3.9	3.7	4.2	4.5
6H	3.5	4.0	3.9	4.4	4.7	3.2	3.8	3.6	4.1	4.4
8H	3.4	3.9	3.8	4.3	4.7	3.2	3.7	3.6	4.0	4.4
12H	3.4	3.8	3.8	4.2	4.6	3.1	3.6	3.5	4.0	4.3
8H 4H	3.4	3.9	3.8	4.3	4.7	3.2	3.7	3.6	4.0	4.4
6H	3.3	3.7	3.8	4.1	4.6	3.1	3.5	3.5	3.9	4.3
8H	3.3	3.6	3.7	4.1	4.5	3.0	3.4	3.5	3.8	4.2
12H	3.2	3.5	3.7	4.0	4.4	3.0	3.3	3.4	3.7	4.2
12H 4H	3.4	3.8	3.8	4.2	4.6	3.1	3.6	3.5	4.0	4.3
6H	3.3	3.6	3.7	4.1	4.5	3.0	3.4	3.5	3.8	4.2
8H	3.2	3.5	3.7	4.0	4.4	3.0	3.3	3.4	3.7	4.2
Variations with the observer position at spacings:										
S = 1.0H	+ 3.9 / -17.4					+ 3.9 / -16.2				
1.5H	+ 6.6 / -14.9					+ 6.6 / -14.0				
2.0H	+ 6.4 / - 5.4					+ 5.8 / - 5.1				

CIE Pub.117 Corrected 1181 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, 60°lens
1#反射器, ADR6CC 98046

UTILIZATION FACTORS TABLE

Test:U:120.4V I:0.1136A P:12.18W PF:0.8908 Lamp Flux:1180.92x1 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) $k(RI) \times RCR = 5$									
$k = 0.60$	90	84	80	89	84	80	88	83	80	77
0.80	97	91	88	96	91	88	95	91	87	84
1.00	101	96	92	100	95	92	99	95	92	88
1.25	105	100	97	104	99	96	102	98	95	91
1.50	107	103	100	106	102	99	104	101	98	94
2.00	109	106	103	108	105	102	105	103	100	95
2.50	111	107	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	115	113	112	113	112	110	109	108	107	100
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, ADR6CC 98046

ISOCANDELA DIAGRAM

Test:U:120.4V I:0.1136A P:12.18W PF:0.8908 Lamp Flux:1180.92x1 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):

1169.8 lm

%lum = 99.1%

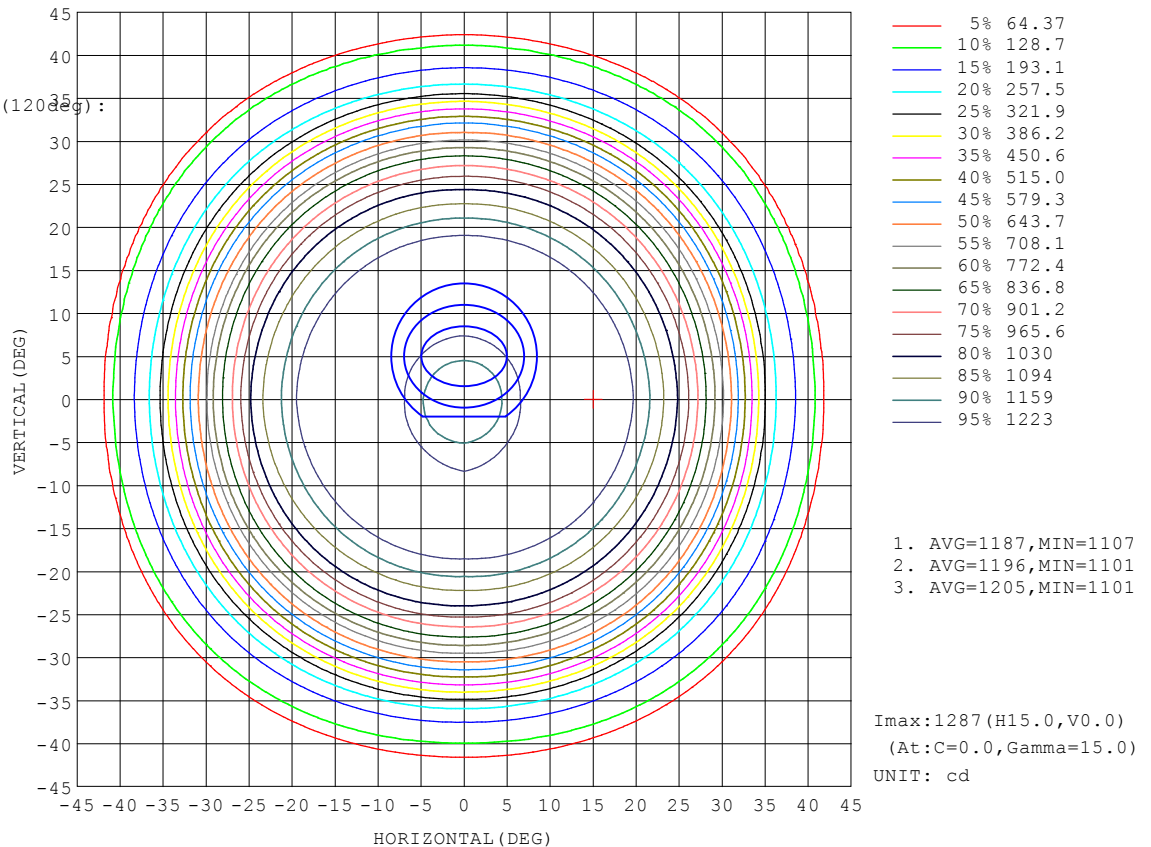
%lamp = 99.1%

Conical surface Flux(120deg):

1178.5 lm

%lum = 99.8%

%lamp = 99.8%

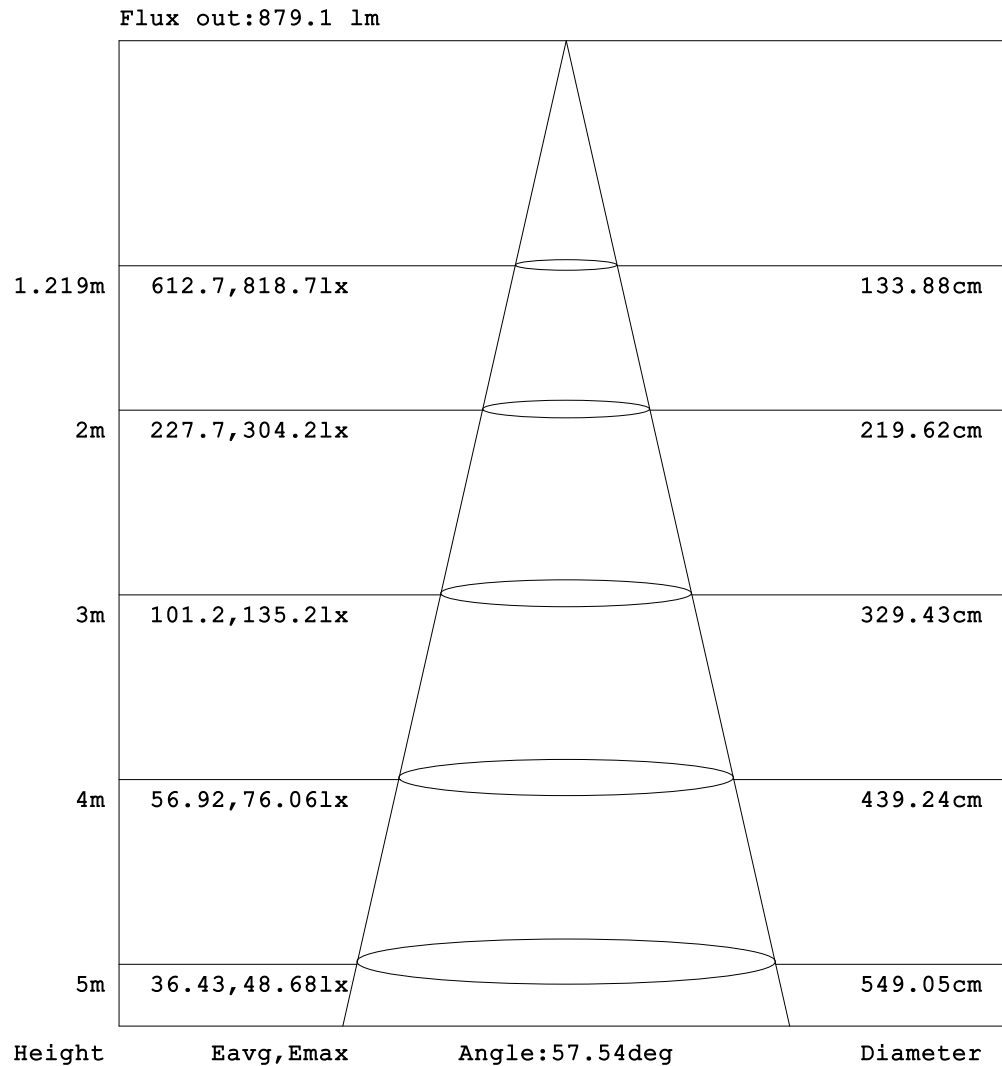


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Aaron
Test Date:2018-01-29

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, 60°lens
1#反射器, ADR6CC 98046

AAI Figure

Test:U:120.4V I:0.1136A P:12.18W PF:0.8908 Lamp Flux:1180.92x1 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:



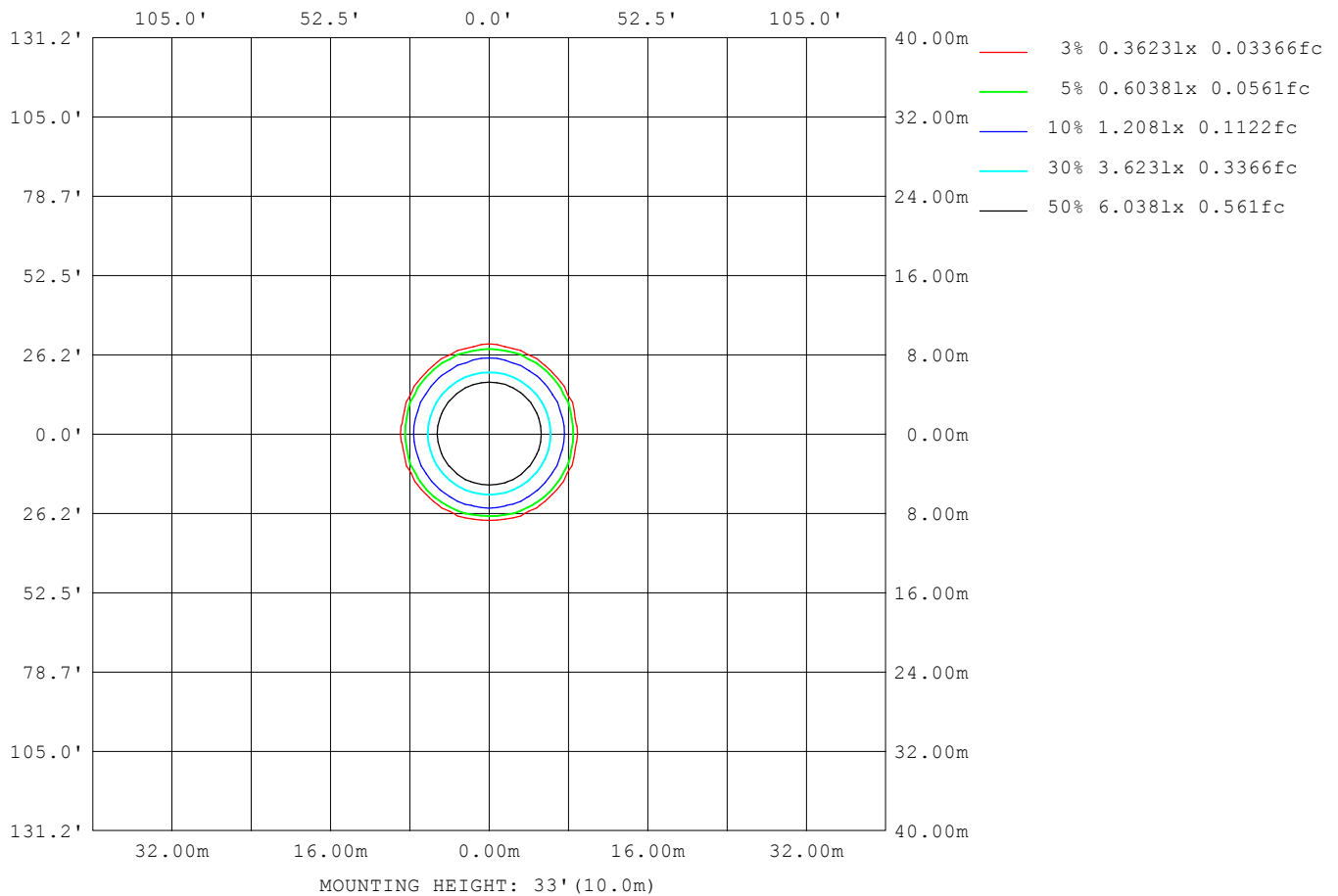
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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, ADR6CC 98046

ISOLUX DIAGRAM

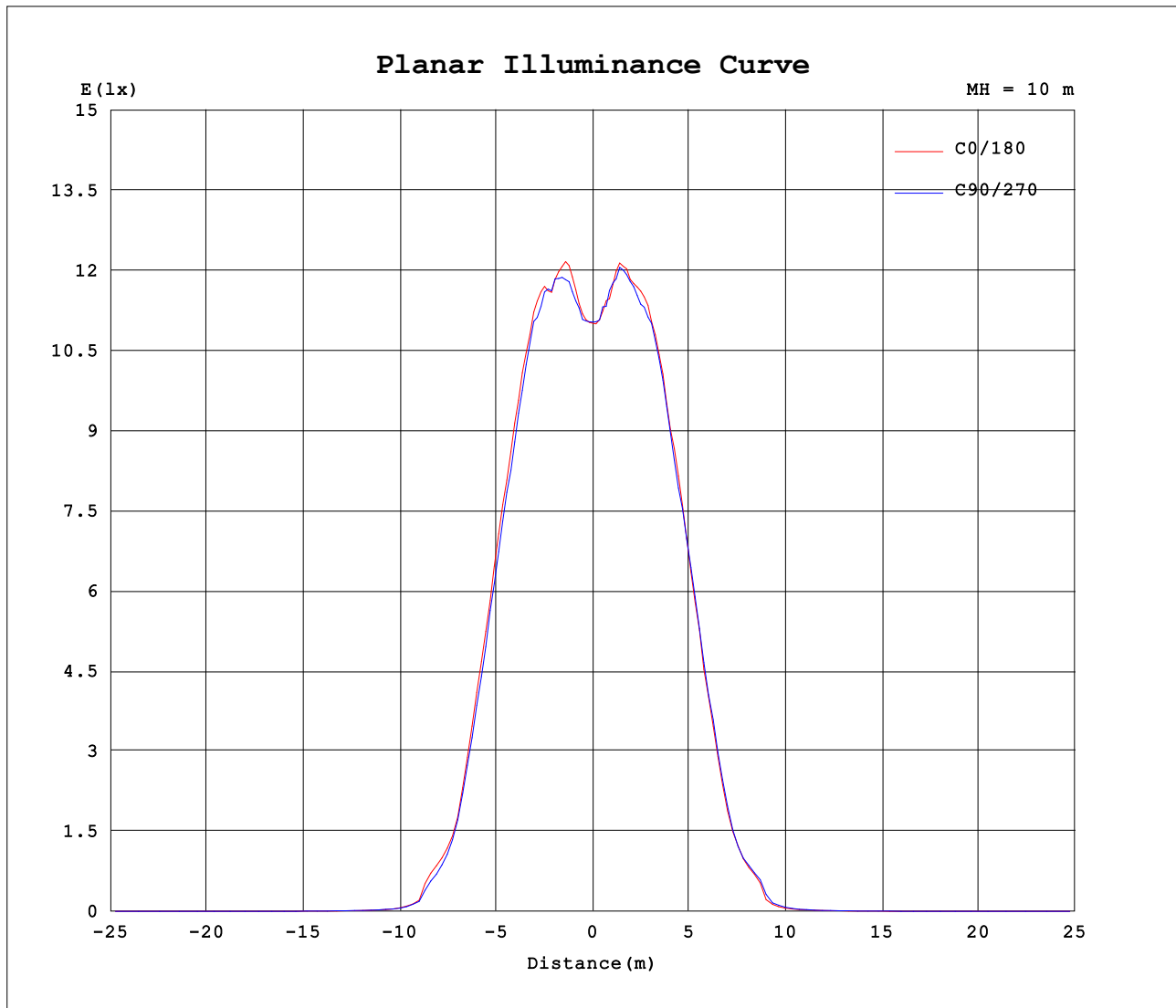
Test:U:120.4V I:0.1136A P:12.18W PF:0.8908 Lamp Flux:1180.92x1 lm		
NAME: 15ADL/60°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/60°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:



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, ADR6CC 98046

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, ADR6CC 98046

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.4V I:0.1136A P:12.18W PF:0.8908 Lamp Flux:1180.92x1 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	1101	1103	1101	1103															
5	1177	1156	1161	1176															
10	1254	1241	1260	1248															
15	1287	1257	1277	1255															
20	1216	1176	1213	1199															
25	1024	983	1021	1012															
30	720	677	698	718															
35	322	312	343	359															
40	160	128	155	162															
45	19.6	17.9	18.0	22.3															
50	7.42	7.79	7.33	8.16															
55	3.88	4.20	3.87	4.35															
60	2.11	2.35	2.11	2.41															
65	1.21	1.37	1.21	1.39															
70	0.68	0.78	0.66	0.80															
75	0.35	0.39	0.32	0.43															
80	0.09	0.09	0.07	0.15															
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	0.02	0.01	0.00															
135	0.08	0.12	0.10	0.06															
140	0.20	0.22	0.20	0.17															
145	0.28	0.32	0.29	0.26															
150	0.36	0.40	0.38	0.34															
155	0.43	0.47	0.45	0.41															
160	0.49	0.54	0.52	0.50															
165	0.56	0.59	0.57	0.55															
170	0.61	0.65	0.65	0.61															
175	0.67	0.70	0.70	0.68															
180	0.71	0.71	0.71	0.71															

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, ADR6CC 98046