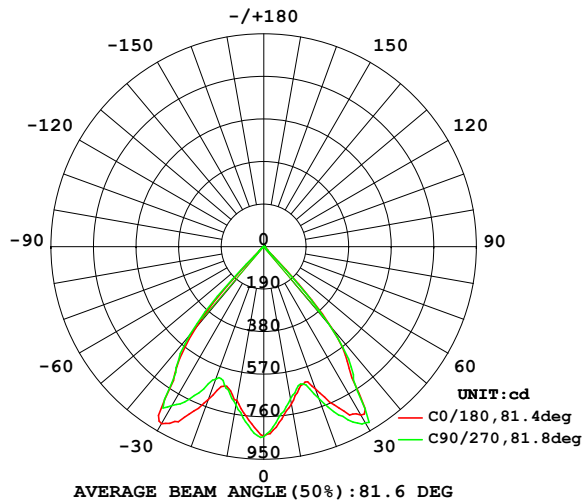


LUMINAIRE PHOTOMETRIC TEST REPORT

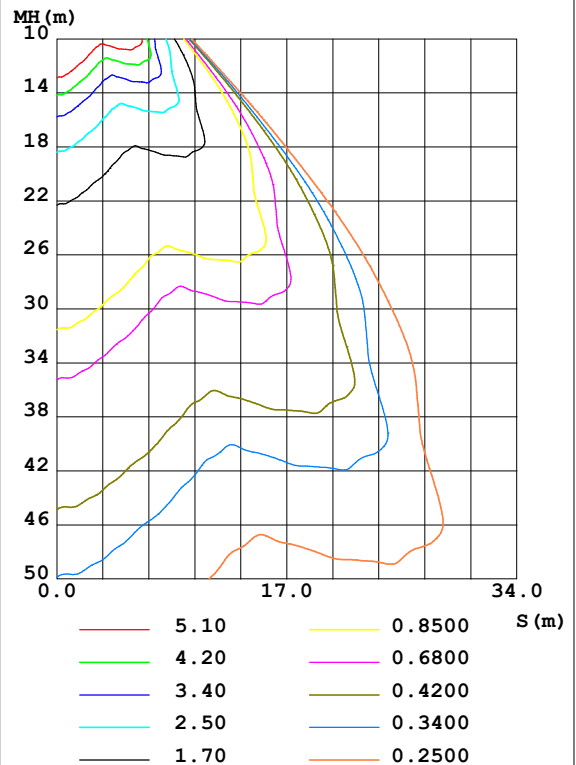
Test:U:120.4V I:0.1144A P:12.28W PF:0.8915 Lamp Flux:1196.72x1 lm		
NAME: 15ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/80°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 97.46 lm/W			
MODEL		Imax(cd)	915.1	S/MH(C0/180)	1.19
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)	1.21
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	1196.7	η UP,DN(C0-180)	0.0,49.6
NOMINAL FLUX(lm)	1196.72	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.3
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	120	η down(%)	100.0	CIBSE SHR MAX	0.80

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, 80°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	714.1	690.6	697.1	716.8					0- 10	72.35	72.35	6.05
20	677.1	723.4	727.9	630.6					10- 20	187.4	259.8	21.7
30	867.8	908.3	912.4	819.3					20- 30	371.6	631.4	52.8
40	463.0	454.4	473.0	514.5					30- 40	435.5	1067	89.1
50	17.58	18.31	17.79	20.93					40- 50	115.2	1182	98.8
60	4.981	5.375	5.027	6.009					50- 60	9.285	1191	99.6
70	1.802	1.996	1.810	2.177					60- 70	3.254	1195	99.8
80	0.6266	0.6813	0.5993	0.7733					70- 80	1.328	1196	99.9
90	0	0	0	0					80- 90	0.2243	1196	100
100	0	0	0	0					90-100	0	1196	100
110	0	0	0	0					100-110	0	1196	100
120	0	0	0	0					110-120	0	1196	100
130	0.0253	0.0639	0.0385	0.0063					120-130	0.0049	1196	100
140	0.1911	0.1789	0.1725	0.1466					130-140	0.0788	1196	100
150	0.2869	0.2744	0.2744	0.2616					140-150	0.1398	1196	100
160	0.3699	0.3896	0.3957	0.3700					150-160	0.1449	1197	100
170	0.5421	0.5745	0.5808	0.5361					160-170	0.1293	1197	100
180	0.6382	0.6446	0.6382	0.6382					170-180	0.0574	1197	100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

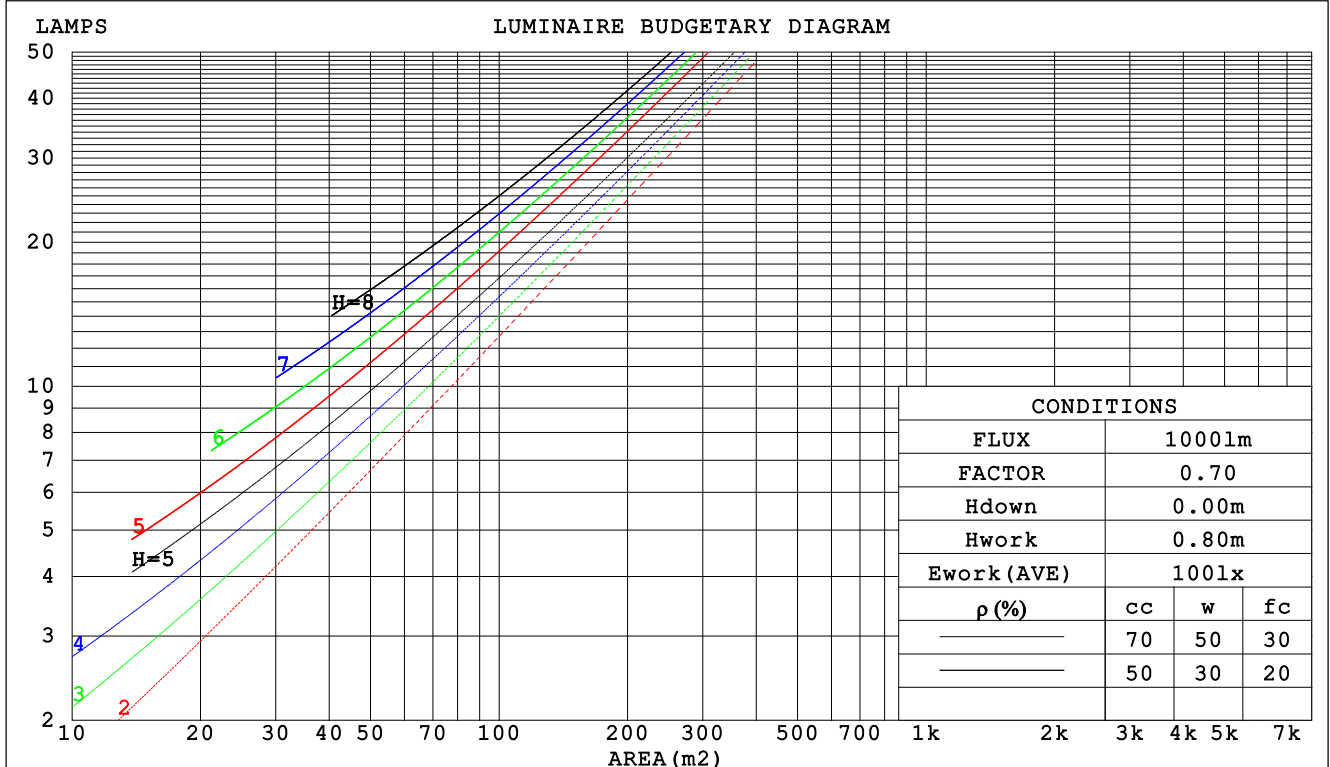
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Aaron
Test Date:2018-01-29

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, 80°lens
1#反射器, ADR6CC 98046

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.4V I:0.1144A P:12.28W PF:0.8915 Lamp Flux:1196.72x1 lm		
NAME: 15ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/80°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	1.10	1.07	1.05	1.08	1.05	1.03	1.04	1.02	.00	.00	.98	.97	.96	.95	.94	.92
2.0	1.01	.97	.93	.99	.95	.92	.96	.93	.90	.93	.90	.88	.90	.88	.86	.84
3.0	.93	.88	.83	.92	.87	.83	.89	.85	.81	.87	.83	.80	.84	.81	.79	.77
4.0	.86	.80	.75	.85	.79	.75	.83	.78	.74	.80	.76	.73	.79	.75	.72	.70
5.0	.79	.73	.68	.78	.72	.68	.76	.71	.67	.75	.70	.66	.73	.69	.66	.64
6.0	.73	.67	.62	.73	.66	.62	.71	.65	.61	.69	.65	.61	.68	.64	.60	.59
7.0	.68	.61	.56	.67	.61	.56	.66	.60	.56	.65	.59	.56	.63	.59	.55	.54
8.0	.63	.56	.52	.62	.56	.52	.61	.56	.51	.60	.55	.51	.59	.54	.51	.49
9.0	.59	.52	.48	.58	.52	.47	.57	.51	.47	.56	.51	.47	.55	.50	.47	.45
10.0	.55	.48	.44	.54	.48	.44	.53	.48	.44	.53	.47	.43	.52	.47	.43	.42



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, 80°lens
1#反射器, ADR6CC 98046

WEC AND CCEC

Test:U:120.4V I:0.1144A P:12.28W PF:0.8915 Lamp Flux:1196.72x1 lm		
NAME: 15ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/80°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	.194	.110	.035	.187	.107	.034	.175	.100	.032	.163	.094	.030	.152	.088	.028		
2.0	.188	.103	.032	.183	.101	.031	.172	.096	.030	.162	.091	.028	.153	.086	.027		
3.0	.181	.096	.029	.176	.094	.028	.167	.090	.027	.158	.087	.027	.150	.083	.026		
4.0	.174	.090	.027	.169	.089	.026	.161	.086	.026	.154	.083	.025	.147	.080	.024		
5.0	.166	.085	.025	.163	.083	.024	.155	.081	.024	.149	.078	.023	.143	.076	.023		
6.0	.159	.080	.023	.156	.079	.023	.149	.077	.022	.144	.075	.022	.138	.073	.022		
7.0	.152	.075	.021	.149	.074	.021	.144	.073	.021	.138	.071	.021	.133	.069	.020		
8.0	.146	.071	.020	.143	.071	.020	.138	.069	.020	.133	.068	.019	.129	.066	.019		
9.0	.140	.068	.019	.137	.067	.019	.133	.066	.019	.129	.064	.018	.124	.063	.018		
10.0	.134	.064	.018	.132	.064	.018	.128	.063	.018	.124	.062	.017	.120	.060	.017		

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	.173	.158	.144	.148	.135	.124	.101	.093	.086	.058	.054	.050	.019	.017	.016	
2.0	.159	.133	.111	.136	.114	.096	.093	.079	.067	.054	.046	.039	.017	.015	.013	
3.0	.148	.114	.087	.127	.098	.076	.087	.068	.053	.050	.040	.031	.016	.013	.010	
4.0	.139	.100	.070	.119	.086	.061	.082	.060	.043	.047	.035	.025	.015	.011	.008	
5.0	.131	.088	.057	.112	.076	.050	.077	.053	.035	.045	.031	.021	.014	.010	.007	
6.0	.124	.079	.047	.107	.069	.041	.074	.048	.029	.043	.028	.017	.014	.009	.006	
7.0	.118	.072	.040	.102	.063	.035	.070	.044	.025	.041	.026	.015	.013	.008	.005	
8.0	.113	.066	.034	.097	.057	.030	.067	.040	.021	.039	.024	.013	.013	.008	.004	
9.0	.108	.061	.030	.093	.053	.026	.065	.037	.018	.038	.022	.011	.012	.007	.004	
10.0	.104	.057	.026	.089	.050	.023	.062	.035	.016	.036	.021	.010	.012	.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, 80°lens
1#反射器, ADR6CC 98046

UGR(Unified Glare Rating) Table

Test:U:120.4V I:0.1144A P:12.28W PF:0.8915 Lamp Flux:1196.72x1 lm										
NAME: 15ADL/80°lens 120-277V					TYPE:LED			WEIGHT:		
SPEC.:15ADL/80°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	9.4	10.5	9.7	10.7	10.9	9.3	10.4	9.5	10.5	10.7
3H	9.2	10.2	9.5	10.4	10.6	9.1	10.1	9.4	10.3	10.5
4H	9.1	10.1	9.4	10.3	10.5	9.0	9.9	9.3	10.2	10.4
6H	9.1	9.9	9.4	10.2	10.4	8.9	9.8	9.2	10.0	10.3
8H	9.0	9.8	9.3	10.1	10.4	8.9	9.7	9.2	10.0	10.2
12H	9.0	9.8	9.3	10.0	10.3	8.8	9.6	9.2	9.9	10.2
4H 2H	9.1	10.1	9.4	10.3	10.5	9.0	9.9	9.3	10.2	10.4
3H	9.0	9.8	9.3	10.0	10.3	8.8	9.6	9.2	9.9	10.2
4H	8.9	9.6	9.2	9.9	10.2	8.7	9.5	9.1	9.8	10.1
6H	8.8	9.4	9.2	9.7	10.1	8.6	9.3	9.0	9.6	10.0
8H	8.7	9.3	9.1	9.7	10.0	8.6	9.2	9.0	9.5	9.9
12H	8.7	9.2	9.1	9.6	10.0	8.5	9.1	9.0	9.4	9.8
8H 4H	8.7	9.3	9.1	9.7	10.0	8.6	9.2	9.0	9.5	9.9
6H	8.6	9.1	9.1	9.5	9.9	8.5	9.0	8.9	9.4	9.8
8H	8.6	9.0	9.0	9.4	9.9	8.4	8.9	8.9	9.3	9.7
12H	8.5	8.9	9.0	9.3	9.8	8.4	8.8	8.9	9.2	9.7
12H 4H	8.7	9.2	9.1	9.6	10.0	8.5	9.1	9.0	9.4	9.8
6H	8.6	9.0	9.0	9.4	9.9	8.4	8.9	8.9	9.3	9.7
8H	8.5	8.9	9.0	9.3	9.8	8.4	8.8	8.9	9.2	9.7
Variations with the observer position at spacings:										
S = 1.0H	+ 2.8 / -18.4					+ 3.0 / -18.2				
1.5H	+ 5.6 / -16.3					+ 5.7 / -16.2				
2.0H	+ 7.7 / - 5.0					+ 4.9 / - 4.2				

CIE Pub.117 Corrected 1197 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, 80°lens
1#反射器, ADR6CC 98046

UTILIZATION FACTORS TABLE

Test:U:120.4V I:0.1144A P:12.28W PF:0.8915 Lamp Flux:1196.72x1 lm		
NAME: 15ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/80°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) $k(RI) \times RCR = 5$									
$k = 0.60$	85	78	74	84	78	74	83	77	74	70
0.80	93	86	82	92	86	82	91	85	82	78
1.00	98	92	88	97	91	88	95	91	87	83
1.25	102	97	93	101	96	93	99	95	92	87
1.50	105	100	97	104	99	96	101	98	95	90
2.00	108	104	100	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	111	108	105	110	106	104	106	104	102	95
4.00	113	111	108	111	109	107	108	106	104	97
5.00	115	112	110	113	110	109	109	107	106	98
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, 80°lens
1#反射器, ADR6CC 98046

ISOCANDELA DIAGRAM

Test:U:120.4V I:0.1144A P:12.28W PF:0.8915 Lamp Flux:1196.72x1 lm		
NAME: 15ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/80°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

1170 lm

%lum = 97.8%

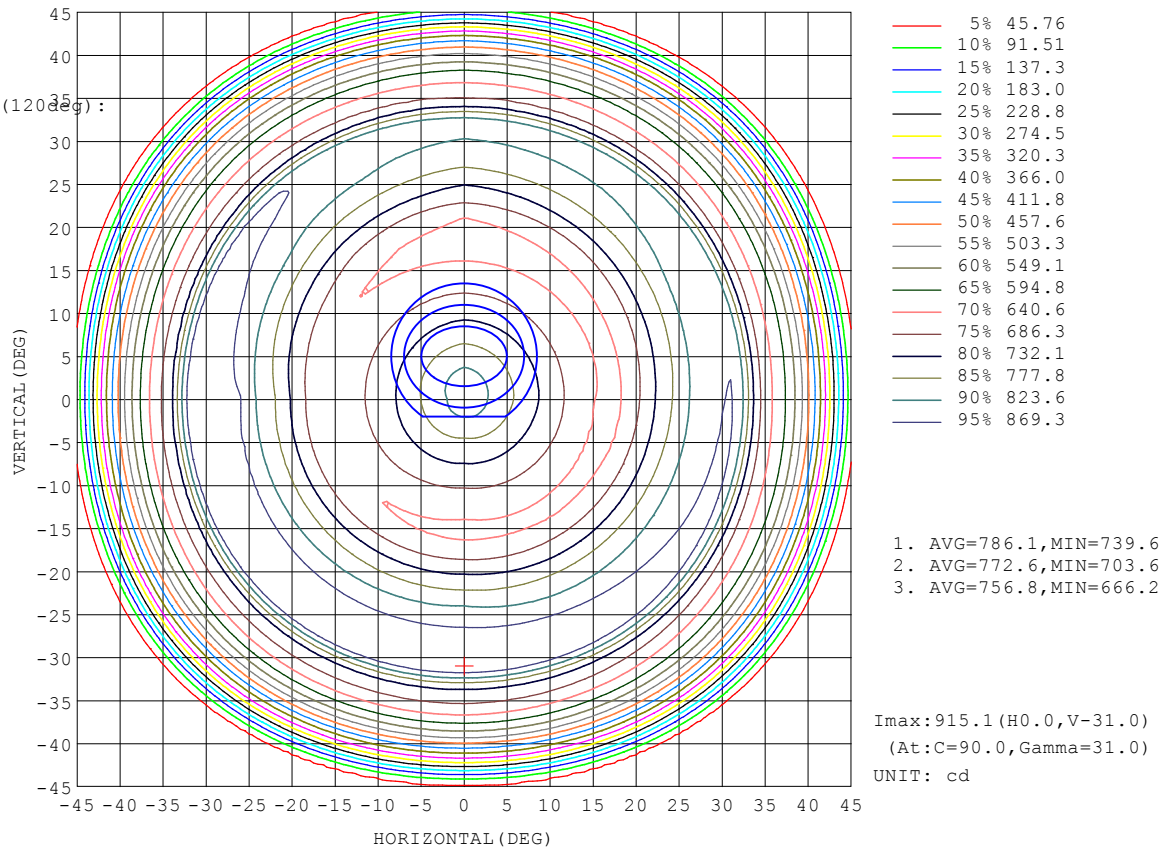
%lamp = 97.8%

Conical surface Flux(120deg):

1191.4 lm

%lum = 99.6%

%lamp = 99.6%

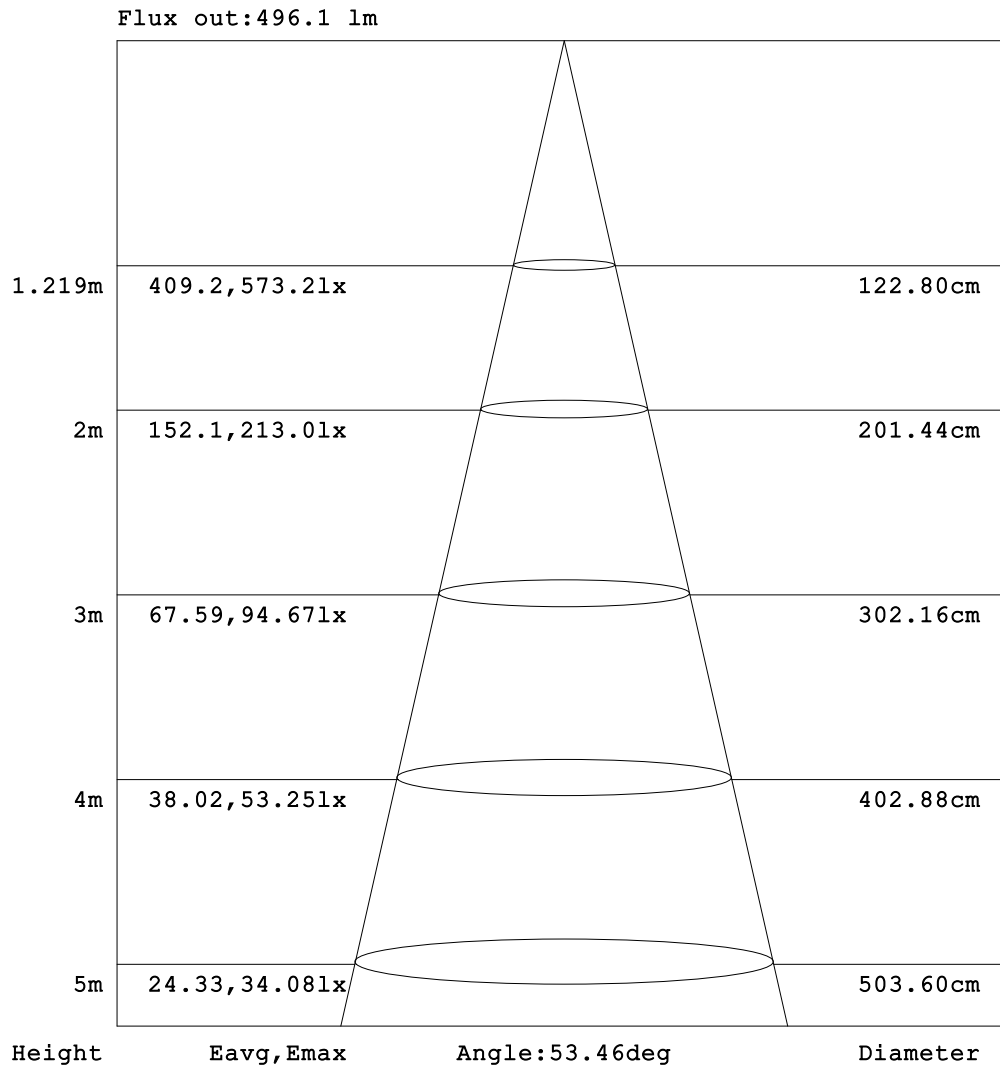


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Aaron
Test Date:2018-01-29

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, 80°lens
1#反射器, ADR6CC 98046

AAI Figure

Test:U:120.4V I:0.1144A P:12.28W PF:0.8915 Lamp Flux:1196.72x1 lm		
NAME: 15ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/80°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:



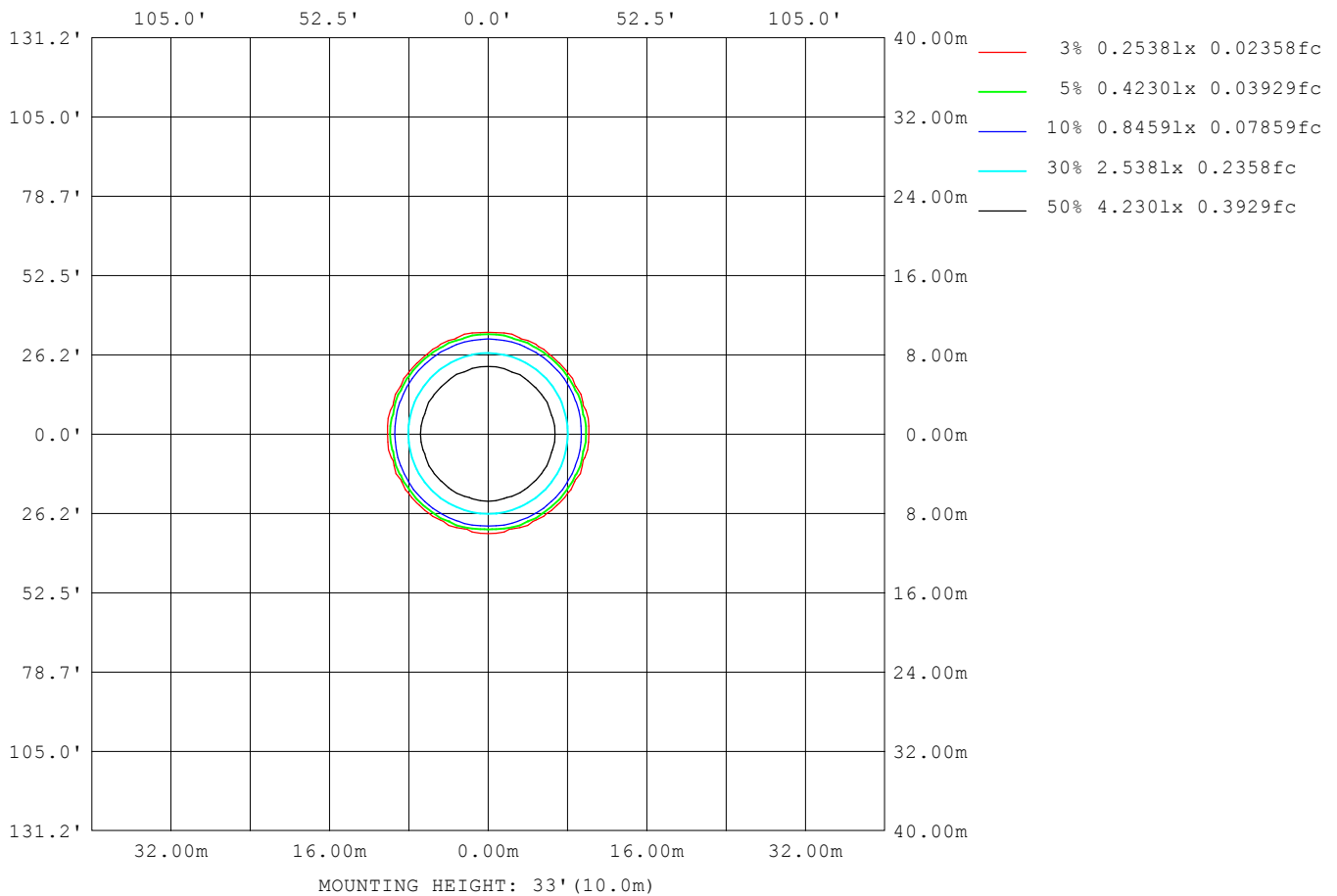
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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, 80°lens
1#反射器, ADR6CC 98046

ISOLUX DIAGRAM

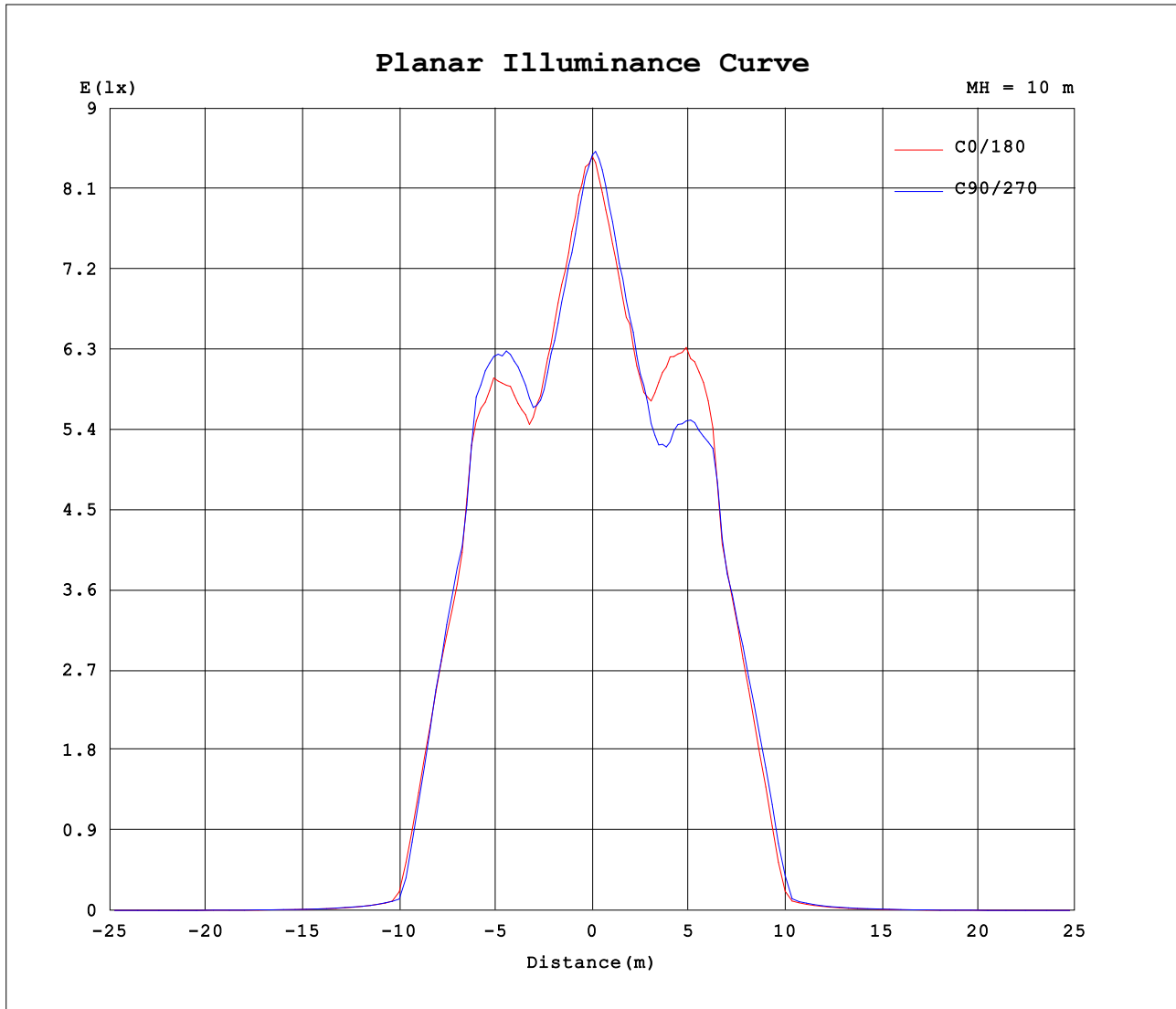
Test:U:120.4V I:0.1144A P:12.28W PF:0.8915 Lamp Flux:1196.72x1 lm		
NAME: 15ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/80°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:



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, 80°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, 80° lens
 1#反射器, ADR6CC 98046

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.4V I:0.1144A P:12.28W PF:0.8915 Lamp Flux:1196.72x1 lm		
NAME: 15ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/80°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	846	848	846	848															
5	788	768	778	801															
10	714	691	697	717															
15	641	636	646	654															
20	677	723	728	631															
25	795	836	841	734															
30	868	908	912	819															
35	666	699	693	687															
40	463	454	473	515															
45	59.9	36.5	61.5	112															
50	17.6	18.3	17.8	20.9															
55	9.11	9.63	9.18	11.0															
60	4.98	5.38	5.03	6.01															
65	2.91	3.18	2.91	3.51															
70	1.80	2.00	1.81	2.18															
75	1.15	1.28	1.12	1.39															
80	0.63	0.68	0.60	0.77															
85	0.12	0.09	0.09	0.19															
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	0.03	0.06	0.04	0.01															
135	0.11	0.12	0.11	0.09															
140	0.19	0.18	0.17	0.15															
145	0.22	0.23	0.22	0.21															
150	0.29	0.27	0.27	0.26															
155	0.30	0.32	0.31	0.30															
160	0.37	0.39	0.40	0.37															
165	0.45	0.48	0.49	0.45															
170	0.54	0.57	0.58	0.54															
175	0.61	0.64	0.63	0.60															
180	0.64	0.64	0.64	0.64															

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, 80°lens
1#反射器, ADR6CC 98046