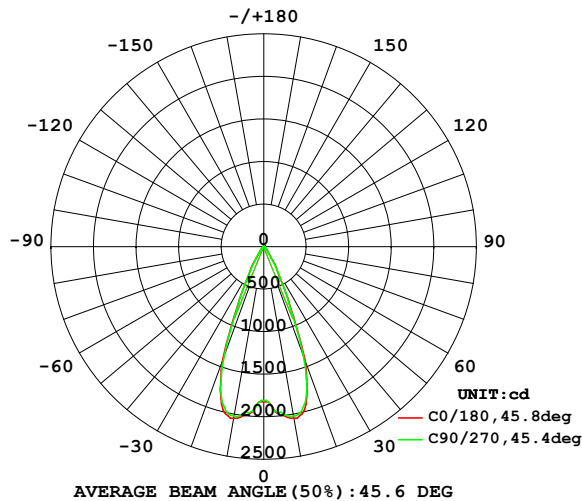


LUMINAIRE PHOTOMETRIC TEST REPORT

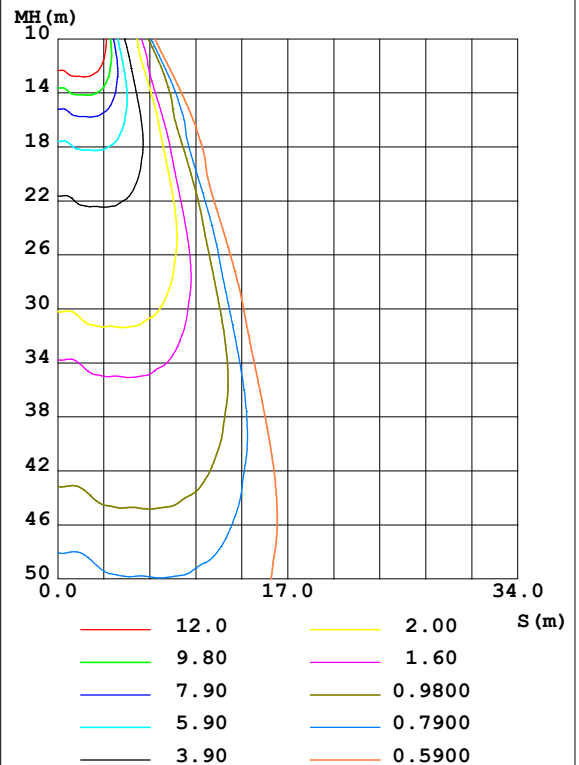
Test:U:120.3V I:0.1145A P:12.33W PF:0.8954 Lamp Flux:1156.83x1 lm		
NAME: 15ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/40°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 93.79 lm/W			
MODEL		I _{max} (cd)	2054	S/MH (C0/180)	0.67
NOMINAL POWER (W)	15	LOR (%)	100.0	S/MH (C90/270)	0.67
RATED VOLTAGE (V)	120-277	TOTAL FLUX (lm)	1156.8	η UP, DN (C0-180)	0.0, 50.0
NOMINAL FLUX (lm)	1156.83	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.0
LAMPS INSIDE	1	η up (%)	0.1	CIBSE SHR NOM	0.00
TEST VOLTAGE (V)	120	η down (%)	99.9	CIBSE SHR MAX	1.00

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, 40°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	2050	2023	2050	2023					0- 10	189.2	189.2	16.4
20	1407	1357	1407	1357					10- 20	510.6	699.8	60.5
30	322.7	313.7	322.7	313.7					20- 30	316.8	1017	87.9
40	68.80	70.53	68.80	70.53					30- 40	94.32	1111	96
50	18.92	21.66	18.92	21.66					40- 50	32.30	1143	98.8
60	4.413	5.268	4.413	5.268					50- 60	9.336	1152	99.6
70	1.278	1.554	1.278	1.554					60- 70	2.727	1155	99.9
80	0.2616	0.2934	0.2616	0.2934					70- 80	0.8071	1156	99.9
90	0	0	0	0					80- 90	0.0561	1156	99.9
100	0	0	0	0					90-100	0	1156	99.9
110	0	0	0	0					100-110	0	1156	99.9
120	0	0	0	0					110-120	0	1156	99.9
130	0	0	0	0					120-130	0	1156	99.9
140	0.1891	0.2093	0.1891	0.2093					130-140	0.0580	1156	99.9
150	0.4573	0.4777	0.4573	0.4777					140-150	0.2087	1156	100
160	0.6338	0.6340	0.6338	0.6340					150-160	0.2621	1157	100
170	0.6405	0.6340	0.6405	0.6340					160-170	0.1796	1157	100
180	0.6667	0.6732	0.6667	0.6732					170-180	0.0610	1157	100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

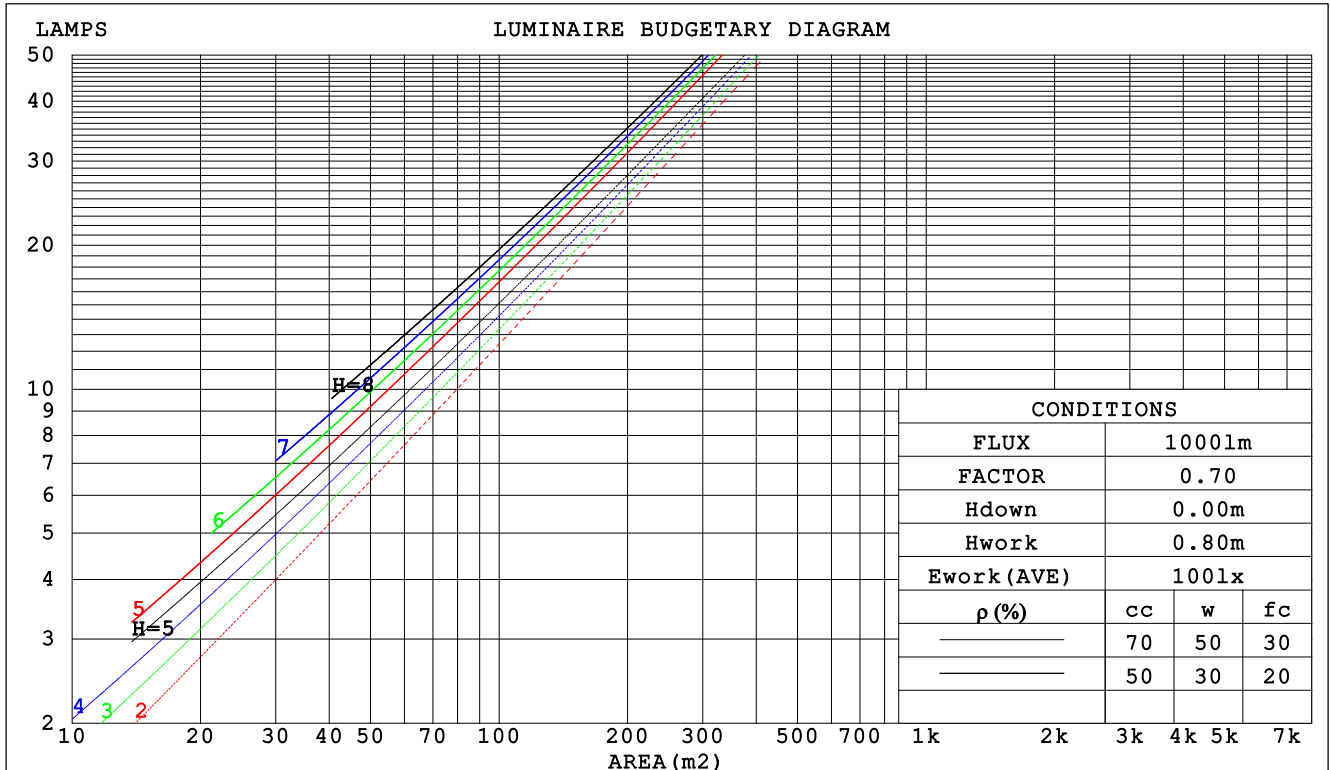
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Aaron
Test Date:2018-01-29

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, 40°lens
1#反射器, ADR4CC 98038

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.3V I:0.1145A P:12.33W PF:0.8954 Lamp Flux:1156.83x1 lm		
NAME: 15ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/40°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	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.04	1.03	1.02	1.01	.00	.98	.98	.97	.95
2.0	1.05	1.02	.99	1.04	1.00	.98	1.00	.98	.96	.97	.95	.94	.95	.93	.92	.90
3.0	.99	.95	.92	.98	.94	.91	.96	.92	.90	.93	.90	.88	.91	.89	.87	.85
4.0	.94	.89	.86	.93	.89	.85	.91	.87	.84	.89	.86	.83	.87	.85	.82	.81
5.0	.89	.85	.81	.89	.84	.80	.87	.83	.80	.85	.82	.79	.84	.81	.78	.77
6.0	.85	.80	.76	.84	.80	.76	.83	.79	.76	.82	.78	.75	.80	.77	.75	.73
7.0	.81	.76	.73	.81	.76	.72	.79	.75	.72	.78	.74	.72	.77	.74	.71	.70
8.0	.78	.73	.69	.77	.72	.69	.76	.72	.69	.75	.71	.68	.74	.71	.68	.67
9.0	.74	.69	.66	.74	.69	.66	.73	.69	.66	.72	.68	.65	.71	.68	.65	.64
10.0	.71	.66	.63	.71	.66	.63	.70	.66	.63	.69	.65	.63	.69	.65	.62	.61



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, 40°lens
1#反射器, ADR4CC 98038

WEC AND CCEC

Test:U:120.3V I:0.1145A P:12.33W PF:0.8954 Lamp Flux:1156.83x1 lm		
NAME: 15ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/40°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	.158	.090	.029	.152	.086	.027	.139	.080	.025	.128	.074	.024	.117	.068	.022		
2.0	.149	.082	.025	.144	.079	.024	.133	.074	.023	.124	.069	.022	.115	.065	.020		
3.0	.141	.075	.023	.136	.073	.022	.128	.069	.021	.120	.065	.020	.112	.062	.019		
4.0	.134	.070	.020	.130	.068	.020	.122	.065	.019	.115	.062	.019	.109	.059	.018		
5.0	.127	.065	.019	.124	.063	.018	.117	.061	.018	.111	.059	.017	.105	.056	.017		
6.0	.121	.061	.017	.118	.060	.017	.112	.058	.017	.107	.056	.016	.102	.054	.016		
7.0	.116	.057	.016	.113	.056	.016	.108	.055	.016	.103	.053	.015	.099	.051	.015		
8.0	.111	.054	.015	.108	.053	.015	.104	.052	.015	.100	.051	.015	.096	.049	.014		
9.0	.106	.051	.014	.104	.051	.014	.100	.050	.014	.096	.048	.014	.093	.047	.014		
10.0	.102	.049	.014	.100	.048	.013	.097	.047	.013	.093	.046	.013	.090	.045	.013		

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	.146	.136	.126	.100	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.154	.133	.116	.132	.115	.100	.090	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.140	.114	.093	.120	.098	.081	.083	.068	.057	.048	.040	.033	.015	.013	.011	
4.0	.129	.099	.076	.111	.085	.066	.076	.060	.047	.044	.035	.028	.014	.011	.009	
5.0	.119	.087	.063	.103	.075	.055	.071	.053	.039	.041	.031	.023	.013	.010	.008	
6.0	.111	.077	.053	.096	.067	.046	.066	.047	.033	.038	.028	.019	.012	.009	.006	
7.0	.105	.070	.045	.090	.060	.039	.062	.042	.028	.036	.025	.017	.012	.008	.005	
8.0	.099	.063	.039	.085	.055	.034	.059	.038	.024	.034	.023	.014	.011	.007	.005	
9.0	.093	.058	.034	.080	.050	.029	.056	.035	.021	.032	.021	.012	.011	.007	.004	
10.0	.089	.053	.030	.076	.046	.026	.053	.033	.018	.031	.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, 40°lens
1#反射器, ADR4CC 98038

UGR(Unified Glare Rating) Table

Test:U:120.3V I:0.1145A P:12.33W PF:0.8954 Lamp Flux:1156.83x1 lm										
NAME: 15ADL/40°lens 120-277V					TYPE:LED			WEIGHT:		
SPEC.:15ADL/40°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	0.5	0.6	-0.5	0.3	-0.3	0.4	0.6
3H	-0.6	0.1	-0.4	0.3	0.5	-0.7	0.1	-0.4	0.3	0.5
4H	-0.7	-0.0	-0.4	0.2	0.4	-0.7	-0.0	-0.5	0.2	0.4
6H	-0.8	-0.1	-0.5	0.1	0.3	-0.8	-0.2	-0.5	0.1	0.3
8H	-0.8	-0.2	-0.5	0.0	0.3	-0.9	-0.2	-0.6	0.0	0.3
12H	-0.9	-0.3	-0.6	-0.0	0.3	-0.9	-0.3	-0.6	-0.0	0.2
4H 2H	-0.7	-0.0	-0.4	0.2	0.4	-0.7	-0.0	-0.5	0.2	0.4
3H	-0.9	-0.2	-0.5	0.0	0.3	-0.9	-0.3	-0.6	0.0	0.3
4H	-0.9	-0.4	-0.6	-0.1	0.2	-1.0	-0.4	-0.6	-0.1	0.2
6H	-1.0	-0.5	-0.7	-0.2	0.1	-1.1	-0.6	-0.7	-0.2	0.1
8H	-1.1	-0.6	-0.7	-0.3	0.1	-1.1	-0.6	-0.7	-0.3	0.1
12H	-1.1	-0.7	-0.7	-0.3	0.0	-1.2	-0.7	-0.7	-0.4	0.0
8H 4H	-1.1	-0.6	-0.7	-0.3	0.1	-1.1	-0.6	-0.7	-0.3	0.1
6H	-1.2	-0.8	-0.8	-0.4	0.0	-1.2	-0.8	-0.8	-0.4	-0.0
8H	-1.2	-0.9	-0.8	-0.5	-0.0	-1.3	-0.9	-0.8	-0.5	-0.1
12H	-1.3	-1.0	-0.8	-0.6	-0.1	-1.3	-1.0	-0.8	-0.6	-0.1
12H 4H	-1.1	-0.7	-0.7	-0.3	0.0	-1.2	-0.7	-0.7	-0.4	0.0
6H	-1.2	-0.9	-0.8	-0.5	-0.0	-1.3	-0.9	-0.8	-0.5	-0.1
8H	-1.3	-1.0	-0.8	-0.6	-0.1	-1.3	-1.0	-0.8	-0.6	-0.1
Variations with the observer position at spacings:										
S = 1.0H	+ 2.4 / - 7.5					+ 2.4 / - 6.9				
1.5H	+ 3.8 / - 5.7					+ 3.6 / - 5.6				
2.0H	+ 5.4 / - 6.3					+ 5.4 / - 6.3				

CIE Pub.117 Corrected 1157 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, 40°lens
1#反射器, ADR4CC 98038

UTILIZATION FACTORS TABLE

Test:U:120.3V I:0.1145A P:12.33W PF:0.8954 Lamp Flux:1156.83x1 lm		
NAME: 15ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/40°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) $k(RI) \times RCR = 5$									
$k = 0.60$	89	83	79	89	83	79	88	82	79	76
0.80	96	91	87	96	90	87	94	90	87	83
1.00	100	95	92	100	95	91	98	94	91	87
1.25	104	99	96	103	99	96	101	98	95	91
1.50	107	102	99	106	102	99	103	100	98	93
2.00	109	105	102	108	104	101	105	102	100	95
2.50	111	107	104	109	106	103	106	104	102	96
3.00	112	109	106	110	108	105	107	105	103	97
4.00	114	112	109	112	110	108	109	107	105	98
5.00	115	113	112	113	111	110	109	108	107	99
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 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, 40°lens
1#反射器, ADR4CC 98038

ISOCANDELA DIAGRAM

Test:U:120.3V I:0.1145A P:12.33W PF:0.8954 Lamp Flux:1156.83x1 lm		
NAME: 15ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/40°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

1131.2 lm

%lum = 97.8%

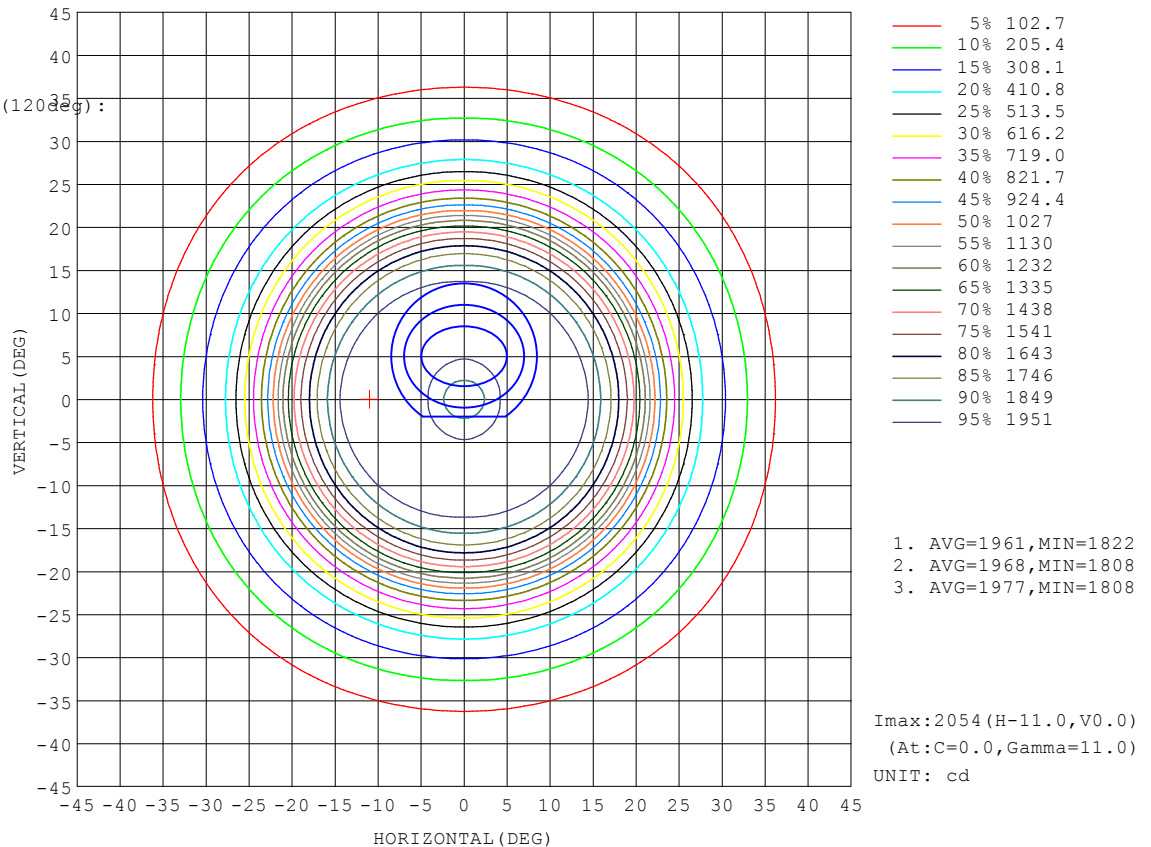
%lamp = 97.8%

Conical surface Flux(120deg):

1152.5 lm

%lum = 99.6%

%lamp = 99.6%

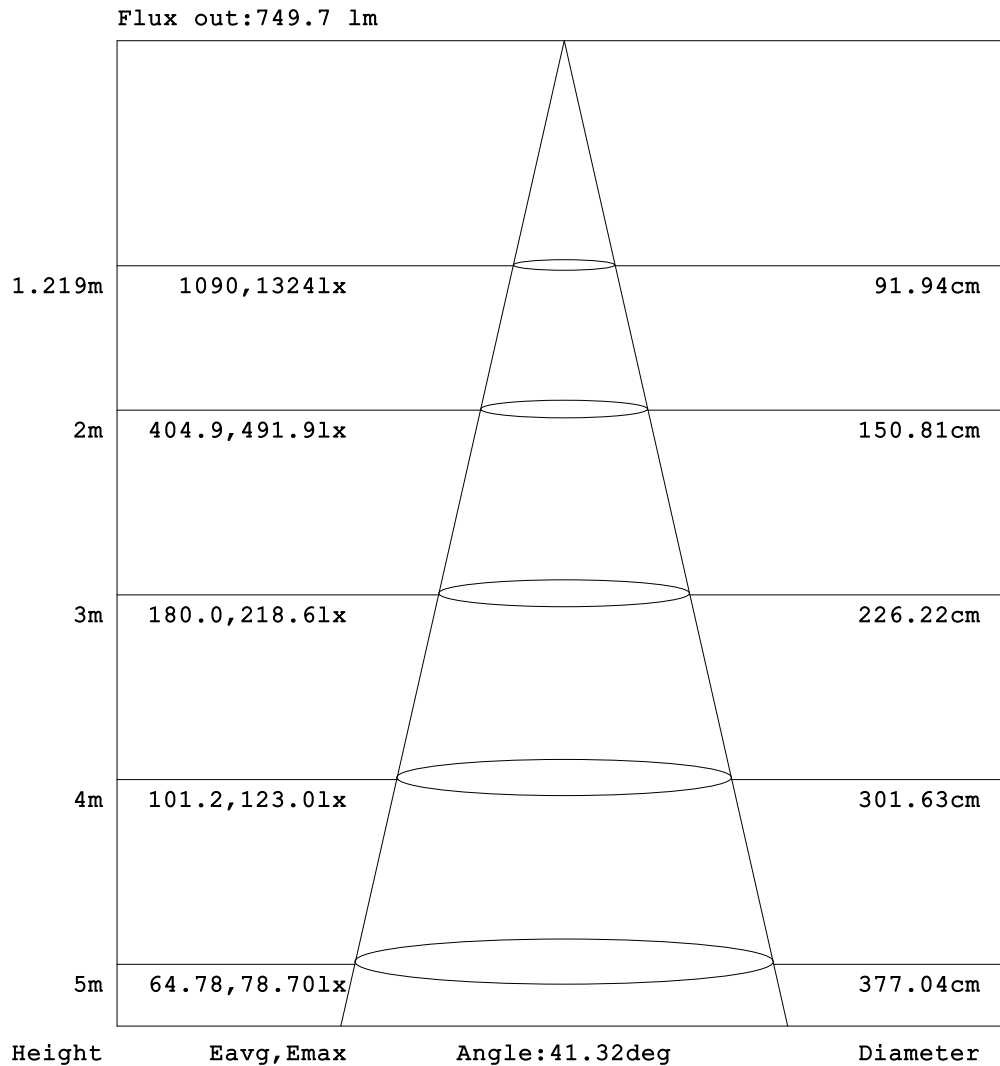


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Aaron
Test Date:2018-01-29

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, 40°lens
1#反射器, ADR4CC 98038

AAI Figure

Test:U:120.3V I:0.1145A P:12.33W PF:0.8954 Lamp Flux:1156.83x1 lm		
NAME: 15ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/40°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:



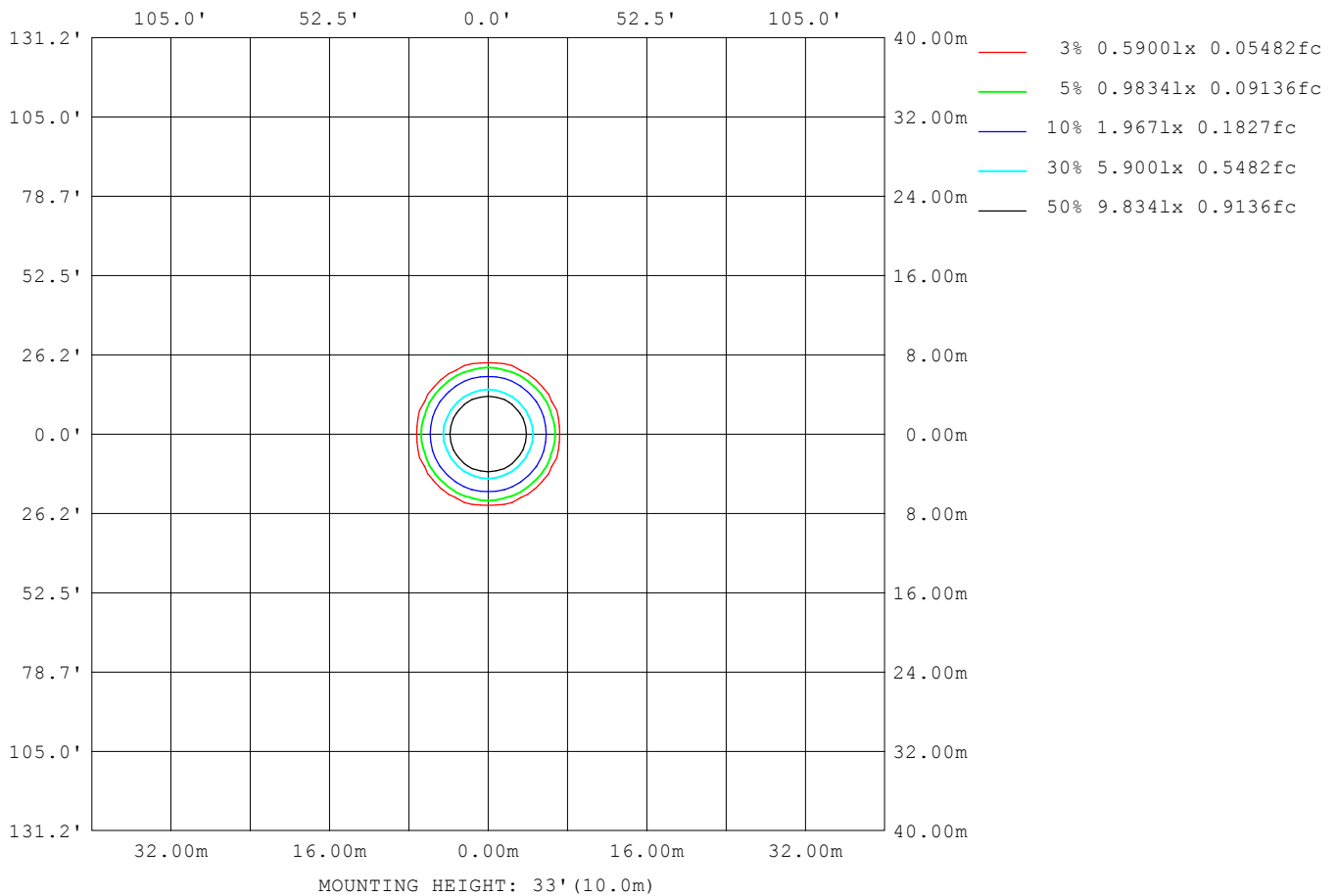
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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, 40°lens
1#反射器, ADR4CC 98038

ISOLUX DIAGRAM

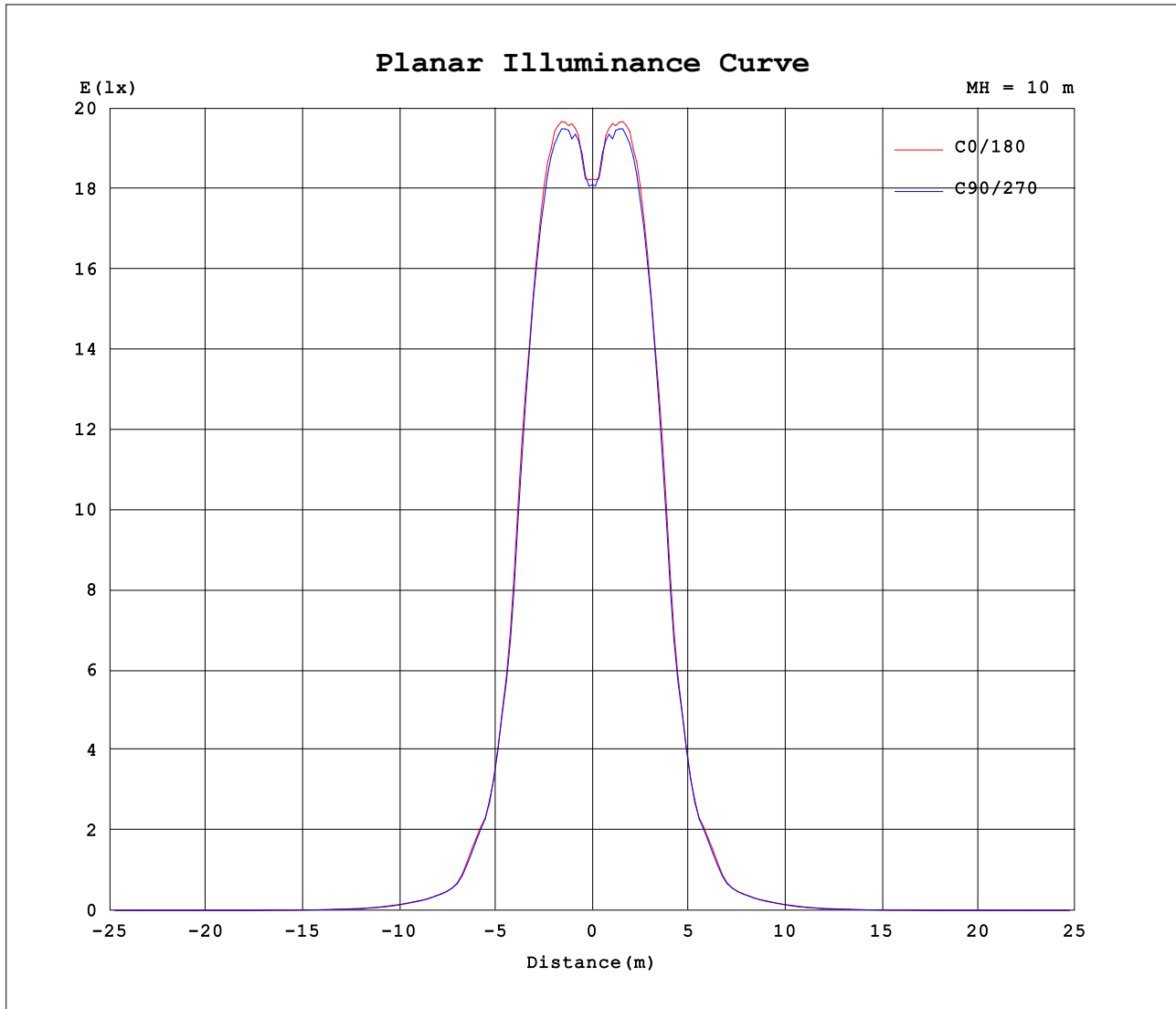
Test:U:120.3V I:0.1145A P:12.33W PF:0.8954 Lamp Flux:1156.83x1 lm		
NAME: 15ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/40°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:



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, 40°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, 40° lens
 1#反射器, ADR4CC 98038

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.3V I:0.1145A P:12.33W PF:0.8954 Lamp Flux:1156.83x1 lm		
NAME: 15ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:15ADL/40°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	1823	1810	1823	1810															
5	1973	1959	1973	1959															
10	2050	2023	2050	2023															
15	1917	1891	1917	1891															
20	1407	1357	1407	1357															
25	669	660	669	660															
30	323	314	323	314															
35	125	122	125	122															
40	68.8	70.5	68.8	70.5															
45	39.4	42.3	39.4	42.3															
50	18.9	21.7	18.9	21.7															
55	8.82	10.3	8.82	10.3															
60	4.41	5.27	4.41	5.27															
65	2.35	2.83	2.35	2.83															
70	1.28	1.55	1.28	1.55															
75	0.67	0.81	0.67	0.81															
80	0.26	0.29	0.26	0.29															
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	0.05	0.09	0.05	0.09															
140	0.19	0.21	0.19	0.21															
145	0.32	0.35	0.32	0.35															
150	0.46	0.48	0.46	0.48															
155	0.56	0.59	0.56	0.59															
160	0.63	0.63	0.63	0.63															
165	0.63	0.63	0.63	0.63															
170	0.64	0.63	0.64	0.63															
175	0.63	0.65	0.63	0.65															
180	0.67	0.67	0.67	0.67															

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, 40°lens
1#反射器, ADR4CC 98038