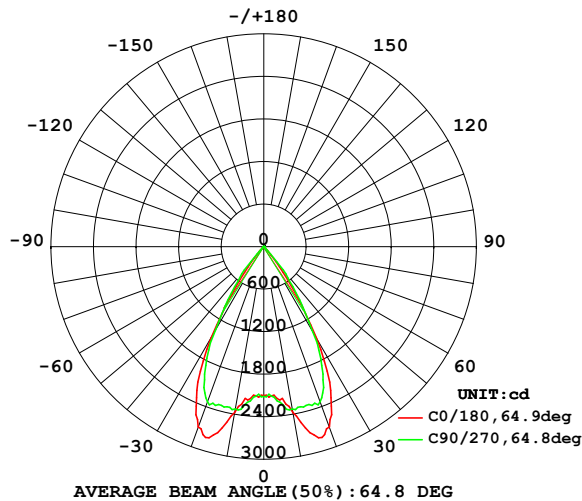


LUMINAIRE PHOTOMETRIC TEST REPORT

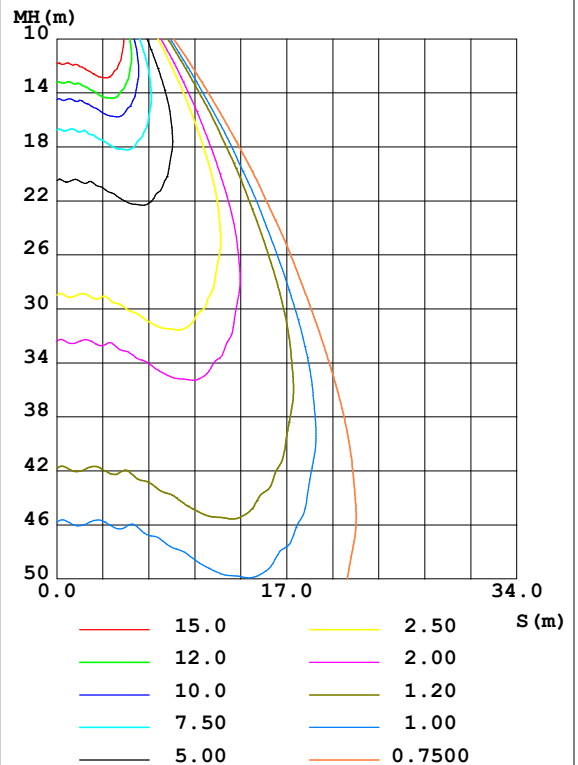
Test:U:120.3V I:0.2587A P:30.94W PF:0.9942 Lamp Flux:2411.47x1 lm		
NAME: 30ADL/60°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/60°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 77.95 lm/W			
MODEL		I _{max} (cd)	2813	S/MH (C0/180)	0.94
NOMINAL POWER (W)	30	LOR (%)	100.0	S/MH (C90/270)	0.95
RATED VOLTAGE (V)	120-277	TOTAL FLUX (lm)	2411.5	η UP, DN (C0-180)	0.0, 50.0
NOMINAL FLUX (lm)	2411.47	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.0
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: 2018-01-26

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#ADR6CC 98046

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum
10	2374	2326	2374	2326					0- 10	212.2	212.2	8.8
20	2704	2325	2704	2325					10- 20	711.6	923.8	38.3
30	1481	1364	1481	1364					20- 30	939.8	1864	77.3
40	220.8	432.4	220.8	432.4					30- 40	479.4	2343	97.2
50	12.69	13.26	12.69	13.26					40- 50	56.46	2399	99.5
60	3.993	3.909	3.993	3.909					50- 60	6.636	2406	99.8
70	1.501	1.367	1.501	1.367					60- 70	2.433	2409	99.9
80	0.3995	0.3328	0.3995	0.3328					70- 80	0.9010	2409	99.9
90	0	0	0	0					80- 90	0.0919	2410	99.9
100	0	0	0	0					90-100	0	2410	99.9
110	0	0	0	0					100-110	0	2410	99.9
120	0	0.0002	0	0.0002					110-120	0.0000	2410	99.9
130	0.2023	0.3098	0.2023	0.3098					120-130	0.0962	2410	99.9
140	0.5649	0.6728	0.5649	0.6728					130-140	0.3291	2410	99.9
150	0.9102	1.018	0.9102	1.018					140-150	0.4922	2410	100
160	1.225	1.244	1.225	1.244					150-160	0.5102	2411	100
170	1.517	1.470	1.517	1.470					160-170	0.3820	2411	100
180	1.636	1.630	1.636	1.630					170-180	0.1480	2411	100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

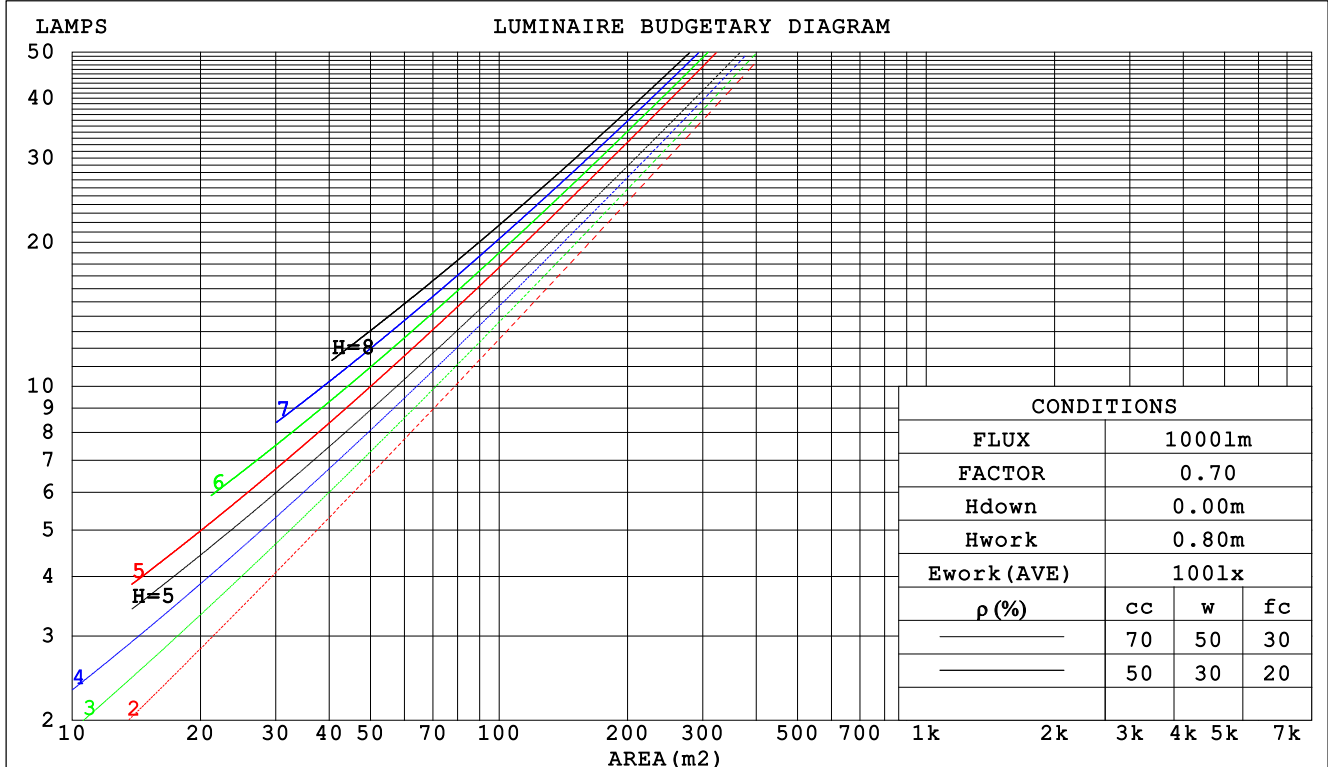
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Aaron
Test Date:2018-01-26

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#ADR6CC 98046

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.3V I:0.2587A P:30.94W PF:0.9942 Lamp Flux:2411.47x1 lm		
NAME: 30ADL/60°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/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	1.09	1.06	1.09	1.07	1.05	1.05	1.03	1.01	1.01	.00	.98	.98	.97	.96	.94
2.0	1.04	.00	.96	1.02	.98	.95	.99	.96	.93	.96	.93	.91	.93	.91	.89	.88
3.0	.97	.92	.88	.95	.91	.87	.93	.89	.86	.90	.87	.85	.88	.86	.83	.82
4.0	.91	.85	.81	.90	.85	.81	.87	.83	.80	.85	.82	.79	.84	.81	.78	.77
5.0	.85	.79	.75	.84	.79	.75	.82	.78	.74	.81	.77	.74	.79	.76	.73	.72
6.0	.80	.74	.70	.79	.74	.70	.78	.73	.69	.76	.72	.69	.75	.71	.68	.67
7.0	.75	.69	.65	.75	.69	.65	.73	.68	.65	.72	.68	.64	.71	.67	.64	.63
8.0	.71	.65	.61	.70	.65	.61	.69	.64	.61	.68	.64	.61	.67	.63	.60	.59
9.0	.67	.61	.57	.67	.61	.57	.66	.61	.57	.65	.60	.57	.64	.60	.57	.55
10.0	.63	.58	.54	.63	.58	.54	.62	.57	.54	.61	.57	.54	.61	.56	.53	.52



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Aaron
Test Date:2018-01-26

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#ADR6CC 98046

WEC AND CCEC

Test:U:120.3V I:0.2587A P:30.94W PF:0.9942 Lamp Flux:2411.47x1 lm		
NAME: 30ADL/60°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/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	.173	.098	.031	.166	.095	.030	.154	.088	.028	.142	.082	.026	.131	.076	.025		
2.0	.165	.091	.028	.160	.088	.027	.149	.083	.026	.139	.078	.024	.130	.074	.023		
3.0	.158	.084	.025	.153	.082	.025	.144	.078	.024	.136	.074	.023	.128	.071	.022		
4.0	.151	.078	.023	.146	.077	.023	.139	.074	.022	.131	.071	.021	.125	.068	.021		
5.0	.144	.073	.021	.140	.072	.021	.134	.070	.020	.127	.067	.020	.121	.065	.019		
6.0	.138	.069	.020	.135	.068	.020	.129	.066	.019	.123	.064	.019	.118	.062	.018		
7.0	.132	.065	.018	.129	.064	.018	.124	.063	.018	.119	.061	.018	.114	.059	.017		
8.0	.127	.062	.017	.124	.061	.017	.119	.060	.017	.115	.058	.017	.111	.057	.017		
9.0	.122	.059	.016	.120	.058	.016	.115	.057	.016	.111	.056	.016	.107	.055	.016		
10.0	.117	.056	.016	.115	.056	.016	.111	.054	.015	.108	.053	.015	.104	.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	.147	.136	.125	.100	.093	.087	.058	.054	.050	.019	.017	.016	
2.0	.156	.133	.114	.134	.115	.098	.092	.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	.079	.060	.045	.045	.035	.027	.015	.011	.009	
5.0	.125	.088	.061	.107	.076	.053	.074	.053	.037	.043	.031	.022	.014	.010	.007	
6.0	.117	.078	.051	.101	.068	.044	.069	.048	.031	.040	.028	.019	.013	.009	.006	
7.0	.111	.071	.043	.095	.061	.037	.066	.043	.027	.038	.025	.016	.012	.008	.005	
8.0	.105	.065	.037	.091	.056	.032	.063	.039	.023	.036	.023	.014	.012	.008	.004	
9.0	.100	.060	.032	.086	.052	.028	.060	.036	.020	.035	.021	.012	.011	.007	.004	
10.0	.096	.055	.028	.083	.048	.025	.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:2018-01-26

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#ADR6CC 98046

UGR(Unified Glare Rating) Table

Test:U:120.3V I:0.2587A P:30.94W PF:0.9942 Lamp Flux:2411.47x1 lm										
NAME: 30ADL/60°lens 120-277V					TYPE:LED			WEIGHT:		
SPEC.:30ADL/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	6.6	7.5	6.8	7.7	7.8	6.8	7.7	7.0	7.9	8.0
3H	6.4	7.2	6.6	7.4	7.6	6.6	7.5	6.9	7.7	7.9
4H	6.3	7.1	6.6	7.3	7.5	6.5	7.3	6.8	7.5	7.8
6H	6.2	7.0	6.5	7.2	7.5	6.4	7.2	6.7	7.4	7.7
8H	6.2	6.9	6.5	7.1	7.4	6.4	7.1	6.7	7.4	7.6
12H	6.1	6.8	6.4	7.1	7.4	6.3	7.0	6.7	7.3	7.6
4H 2H	6.3	7.1	6.6	7.3	7.5	6.5	7.3	6.8	7.5	7.8
3H	6.1	6.8	6.4	7.1	7.4	6.3	7.0	6.7	7.3	7.6
4H	6.0	6.7	6.4	7.0	7.3	6.3	6.9	6.6	7.2	7.5
6H	5.9	6.5	6.3	6.8	7.2	6.2	6.7	6.5	7.0	7.4
8H	5.9	6.4	6.3	6.7	7.1	6.1	6.6	6.5	7.0	7.3
12H	5.8	6.3	6.2	6.7	7.1	6.1	6.5	6.5	6.9	7.3
8H 4H	5.9	6.4	6.3	6.7	7.1	6.1	6.6	6.5	7.0	7.3
6H	5.8	6.2	6.2	6.6	7.0	6.0	6.4	6.4	6.8	7.2
8H	5.7	6.1	6.2	6.5	7.0	5.9	6.3	6.4	6.7	7.2
12H	5.7	6.0	6.1	6.4	6.9	5.9	6.2	6.4	6.6	7.1
12H 4H	5.8	6.3	6.2	6.7	7.1	6.1	6.5	6.5	6.9	7.3
6H	5.7	6.1	6.2	6.5	7.0	5.9	6.3	6.4	6.7	7.2
8H	5.7	6.0	6.1	6.4	6.9	5.9	6.2	6.4	6.6	7.1
Variations with the observer position at spacings:										
S = 1.0H	+ 4.0 / -17.4					+ 3.9 / -19.5				
1.5H	+ 6.7 / -15.3					+ 6.7 / -17.3				
2.0H	+ 6.5 / - 4.7					+ 7.1 / - 5.1				

CIE Pub.117 Corrected 2411 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.1)

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Aaron
Test Date:2018-01-26

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#ADR6CC 98046

UTILIZATION FACTORS TABLE

Test:U:120.3V I:0.2587A P:30.94W PF:0.9942 Lamp Flux:2411.47x1 lm		
NAME: 30ADL/60°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/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	89	83	80	77
0.80	97	92	88	96	91	88	95	91	88	84
1.00	101	96	92	100	95	92	99	95	92	88
1.25	105	100	97	104	99	96	102	98	95	92
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:2018-01-26

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#ADR6CC 98046

ISOCANDELA DIAGRAM

Test:U:120.3V I:0.2587A P:30.94W PF:0.9942 Lamp Flux:2411.47x1 lm		
NAME: 30ADL/60°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/60°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

2391.1 lm

%lum = 99.2%

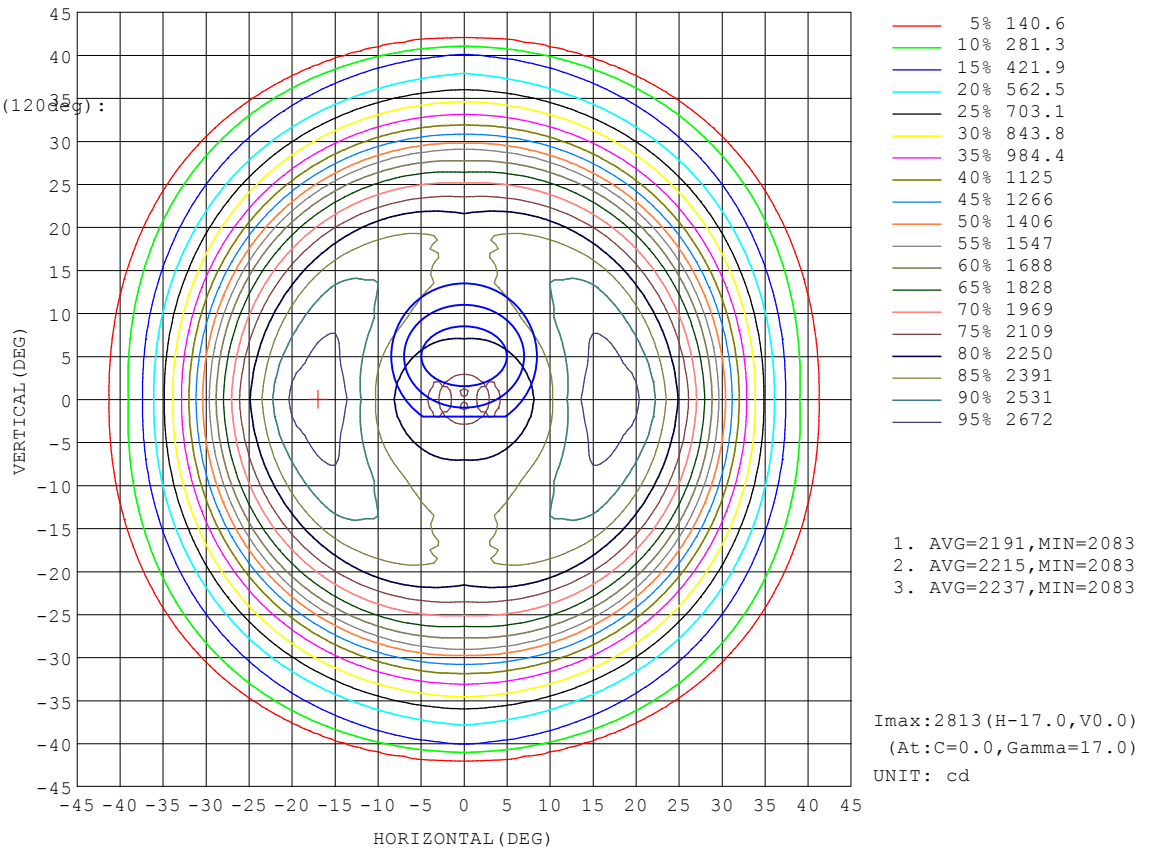
%lamp = 99.2%

Conical surface Flux(120deg):

2406.1 lm

%lum = 99.8%

%lamp = 99.8%

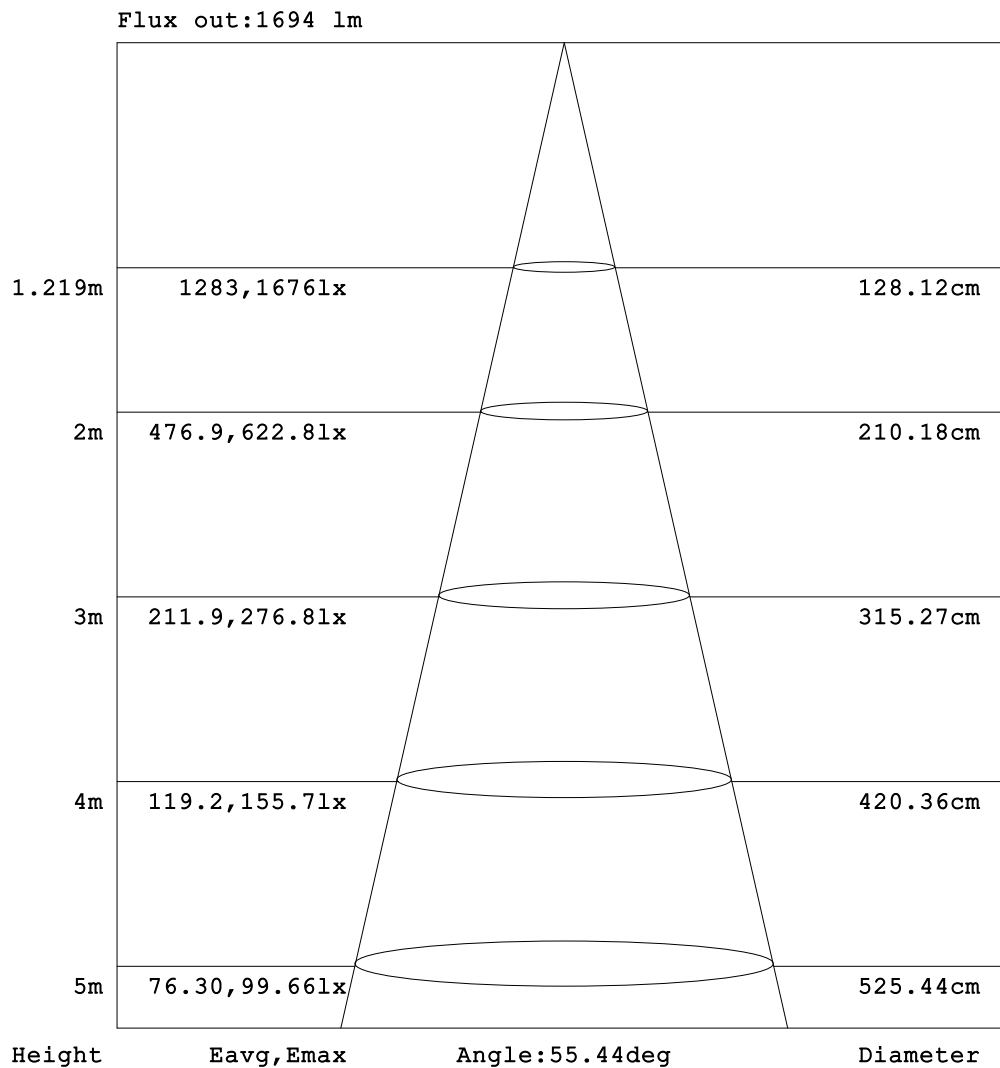


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Aaron
Test Date:2018-01-26

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#ADR6CC 98046

AAI Figure

Test:U:120.3V I:0.2587A P:30.94W PF:0.9942 Lamp Flux:2411.47x1 lm		
NAME: 30ADL/60°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/60°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:



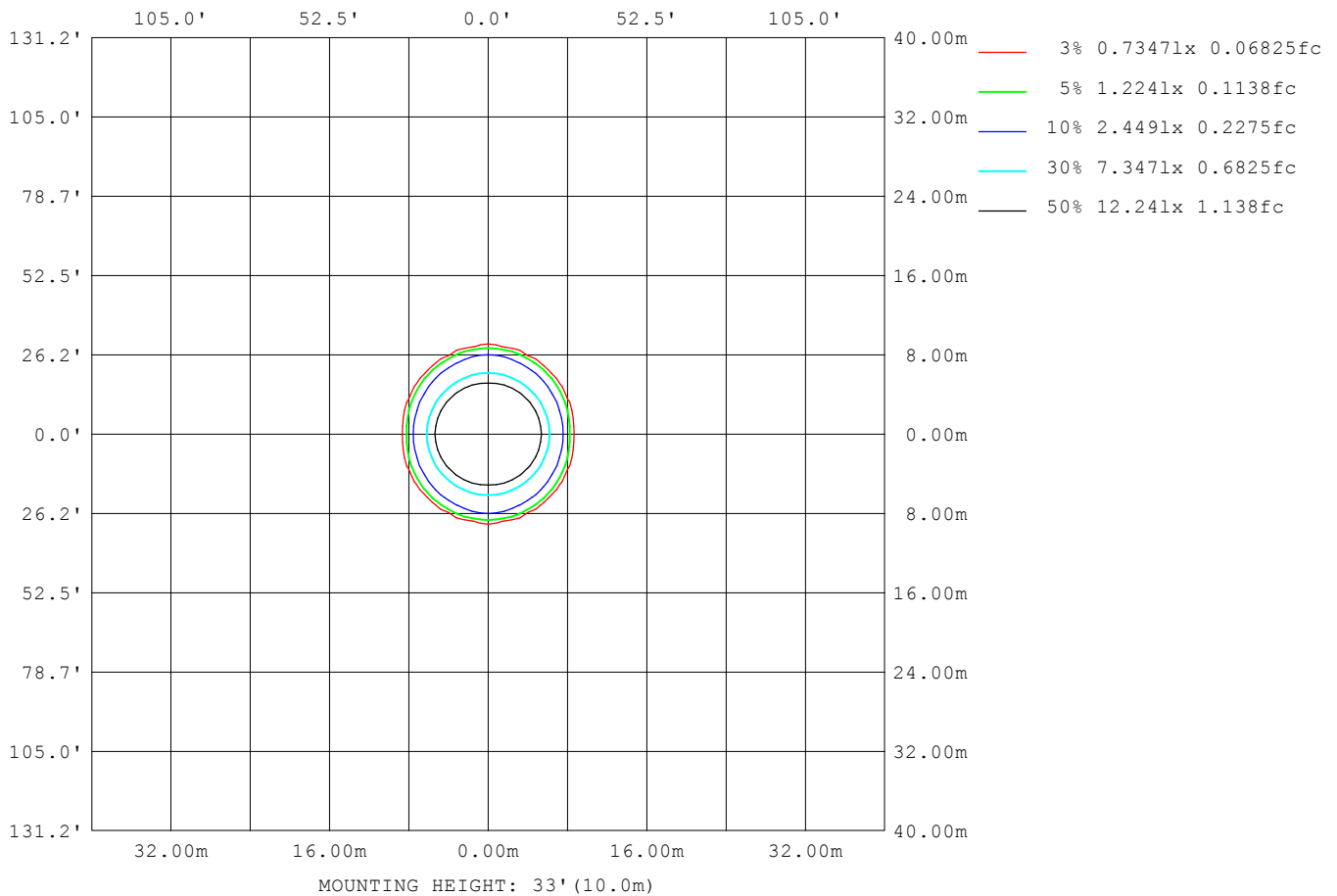
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Aaron
Test Date:2018-01-26

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#ADR6CC 98046

ISOLUX DIAGRAM

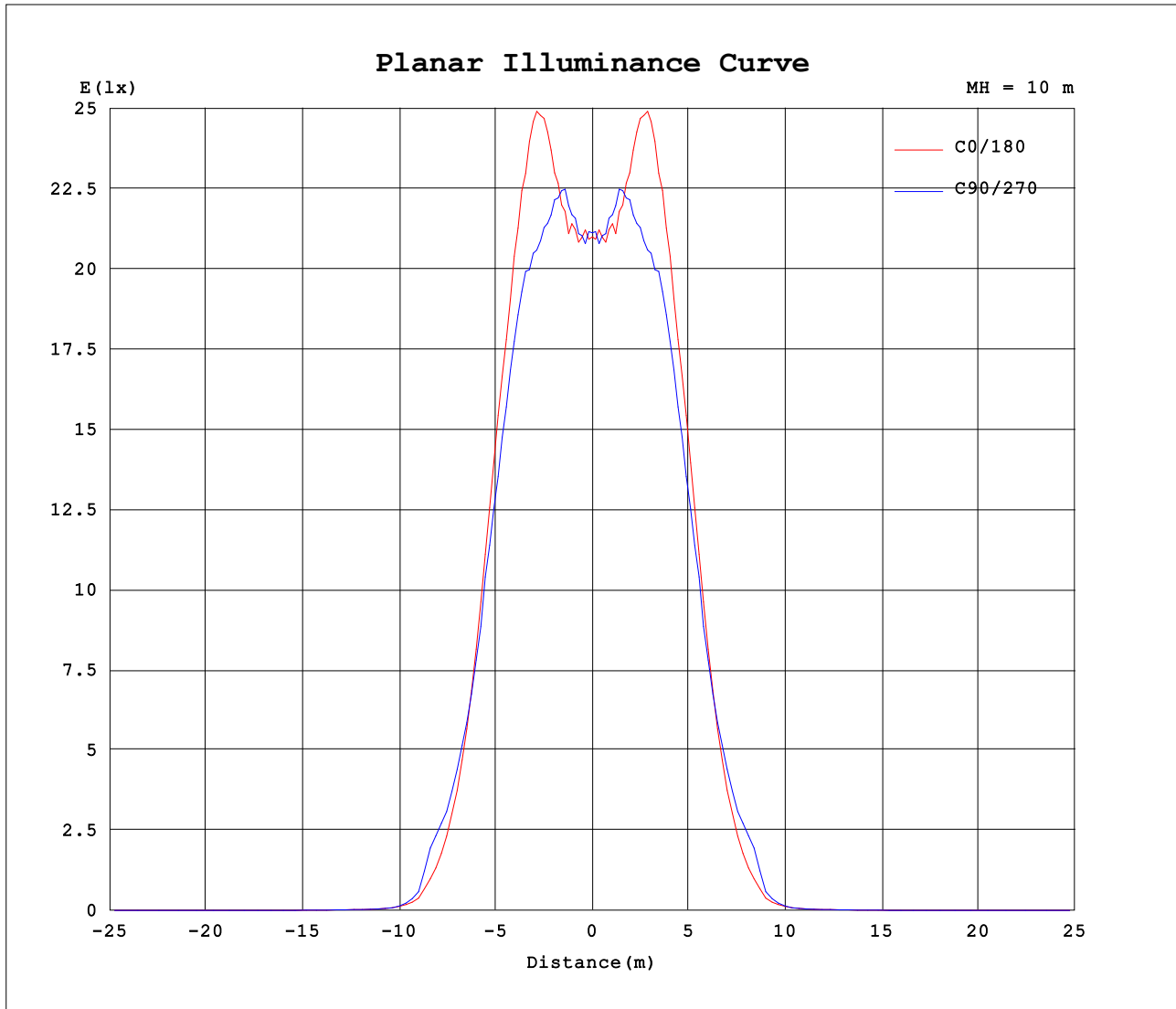
Test:U:120.3V I:0.2587A P:30.94W PF:0.9942 Lamp Flux:2411.47x1 lm		
NAME: 30ADL/60°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/60°lens 120-277V	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Aaron
Test Date:2018-01-26

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#ADR6CC 98046

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Aaron
 Test Date: 2018-01-26

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#ADR6CC 98046

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.3V I:0.2587A P:30.94W PF:0.9942 Lamp Flux:2411.47x1 lm		
NAME: 30ADL/60°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/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	2100	2113	2100	2113															
5	2147	2183	2147	2183															
10	2374	2326	2374	2326															
15	2750	2317	2750	2317															
20	2704	2325	2704	2325															
25	2239	1983	2239	1983															
30	1481	1364	1481	1364															
35	681	800	681	800															
40	221	432	221	432															
45	36.2	40.4	36.2	40.4															
50	12.7	13.3	12.7	13.3															
55	6.96	7.04	6.96	7.04															
60	3.99	3.91	3.99	3.91															
65	2.42	2.28	2.42	2.28															
70	1.50	1.37	1.50	1.37															
75	0.89	0.77	0.89	0.77															
80	0.40	0.33	0.40	0.33															
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	0.06	0.14	0.06	0.14															
130	0.20	0.31	0.20	0.31															
135	0.37	0.48	0.37	0.48															
140	0.56	0.67	0.56	0.67															
145	0.75	0.85	0.75	0.85															
150	0.91	1.02	0.91	1.02															
155	1.06	1.15	1.06	1.15															
160	1.23	1.24	1.23	1.24															
165	1.37	1.35	1.37	1.35															
170	1.52	1.47	1.52	1.47															
175	1.59	1.58	1.59	1.58															
180	1.64	1.63	1.64	1.63															

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Aaron
Test Date:2018-01-26

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#ADR6CC 98046