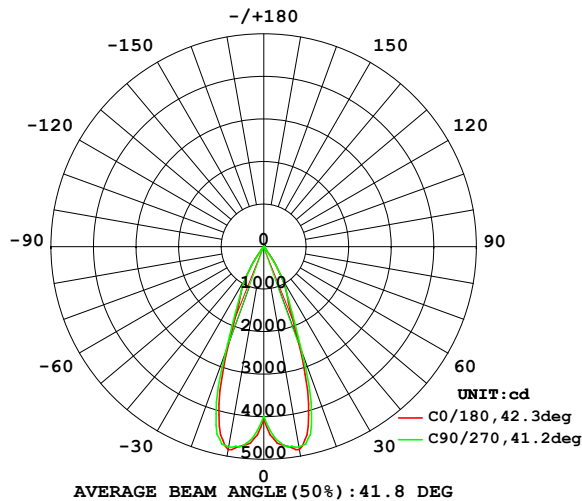


LUMINAIRE PHOTOMETRIC TEST REPORT

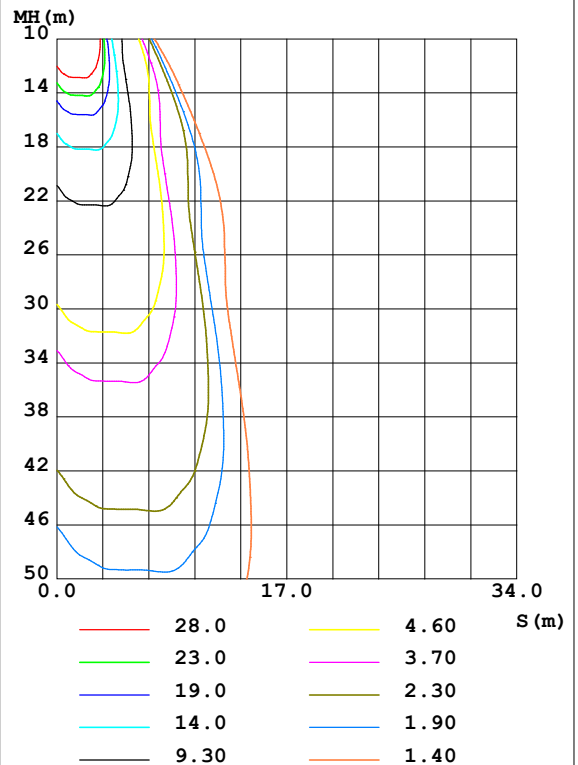
Test:U:120.3V I:0.2610A P:31.20W PF:0.9941 Lamp Flux:2458.17x1 lm		
NAME: 30ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/40°lens 120-277V	DIM.:	SERIAL No.:02
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 78.79 lm/W			
MODEL		I _{max} (cd)	4845	S/MH (C0/180)	0.66
NOMINAL POWER (W)	30	LOR (%)	100.0	S/MH (C90/270)	0.67
RATED VOLTAGE (V)	120-277	TOTAL FLUX (lm)	2458.2	η UP, DN (C0-180)	0.0, 50.0
NOMINAL FLUX (lm)	2458.17	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	0.55

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
2#反射器, ADR8CC 98054

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum
10	4845	4772	4845	4772					0- 10	447.7	447.7	18.2
20	2436	2603	2436	2603					10- 20	1106	1554	63.2
30	877.1	859.1	877.1	859.1					20- 30	661.8	2215	90.1
40	82.08	73.98	82.08	73.98					30- 40	216.2	2432	98.9
50	6.565	6.594	6.565	6.594					40- 50	18.75	2450	99.7
60	2.175	2.393	2.175	2.393					50- 60	3.551	2454	99.8
70	0.8261	0.9601	0.8261	0.9601					60- 70	1.464	2455	99.9
80	0.1621	0.1914	0.1621	0.1914					70- 80	0.5376	2456	99.9
90	0	0	0	0					80- 90	0.0288	2456	99.9
100	0	0	0	0					90-100	0	2456	99.9
110	0	0	0	0					100-110	0	2456	99.9
120	0	0	0	0					110-120	0	2456	99.9
130	0.2231	0.2049	0.2231	0.2049					120-130	0.0553	2456	99.9
140	0.7127	0.6701	0.7127	0.6701					130-140	0.3403	2456	99.9
150	1.265	1.253	1.265	1.253					140-150	0.6076	2457	99.9
160	1.600	1.600	1.600	1.600					150-160	0.6709	2458	100
170	1.675	1.687	1.675	1.687					160-170	0.4647	2458	100
180	1.737	1.699	1.737	1.699					170-180	0.1617	2458	100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

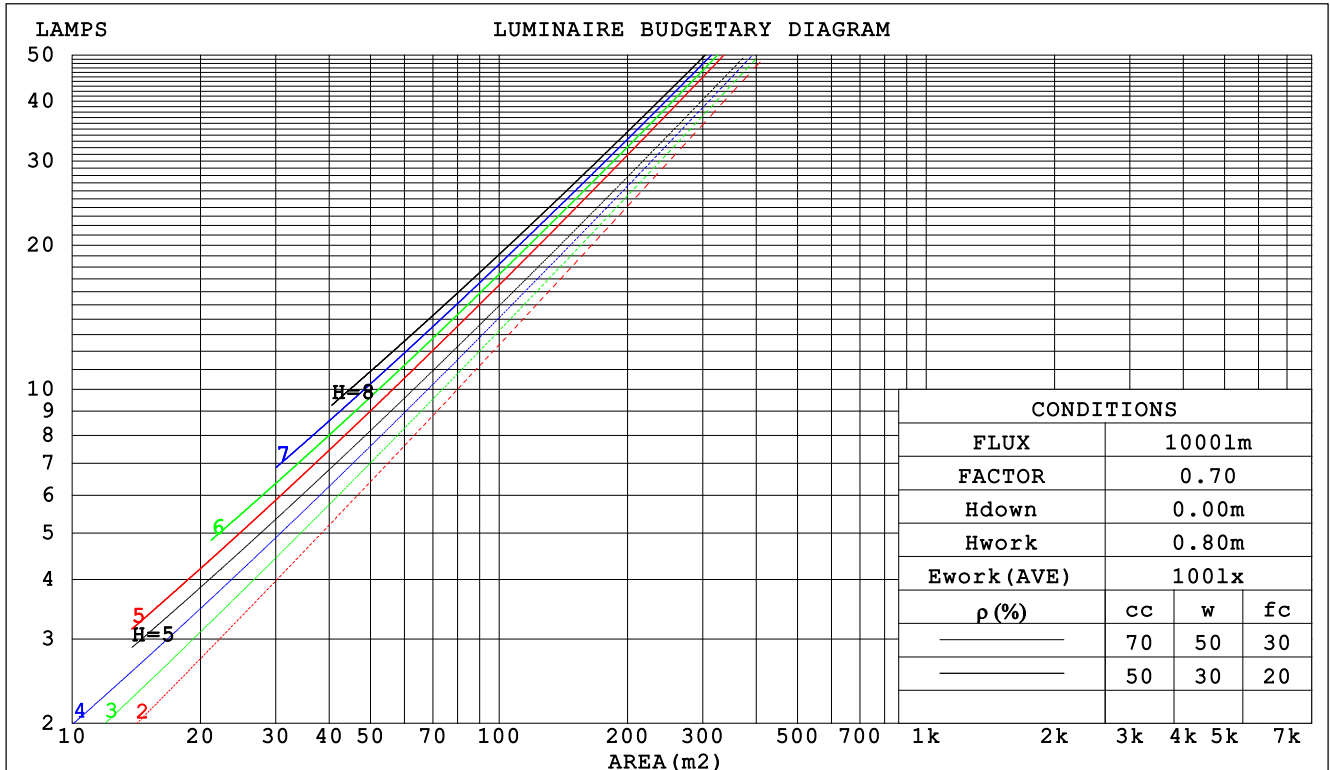
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Aaron
Test Date:2018-01-29

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
2#反射器, ADR8CC 98054

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.3V I:0.2610A P:31.20W PF:0.9941 Lamp Flux:2458.17x1 lm		
NAME: 30ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/40°lens 120-277V	DIM.:	SERIAL No.:02
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	.99	.98	.97	.95
2.0	1.06	1.02	.00	1.04	1.01	.98	1.01	.98	.96	.98	.96	.94	.95	.94	.92	.91
3.0	1.00	.96	.93	.99	.95	.92	.96	.93	.91	.94	.91	.89	.92	.90	.88	.86
4.0	.95	.91	.87	.94	.90	.87	.92	.89	.86	.90	.87	.85	.88	.86	.84	.82
5.0	.91	.86	.82	.90	.85	.82	.88	.84	.81	.87	.83	.81	.85	.82	.80	.79
6.0	.87	.82	.78	.86	.81	.78	.84	.80	.77	.83	.80	.77	.82	.79	.76	.75
7.0	.83	.78	.74	.82	.77	.74	.81	.77	.74	.80	.76	.73	.79	.76	.73	.72
8.0	.79	.74	.71	.79	.74	.71	.78	.74	.71	.77	.73	.70	.76	.73	.70	.69
9.0	.76	.71	.68	.76	.71	.68	.75	.70	.68	.74	.70	.67	.73	.70	.67	.66
10.0	.73	.68	.65	.73	.68	.65	.72	.68	.65	.71	.67	.65	.70	.67	.64	.63



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
2#反射器, ADR8CC 98054

WEC AND CCEC

Test:U:120.3V I:0.2610A P:31.20W PF:0.9941 Lamp Flux:2458.17x1 lm		
NAME: 30ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/40°lens 120-277V	DIM.:	SERIAL No.:02
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	.153	.087	.028	.147	.084	.027	.134	.077	.025	.123	.071	.023	.112	.065	.021		
2.0	.144	.079	.024	.139	.076	.024	.128	.071	.022	.119	.067	.021	.110	.062	.020		
3.0	.136	.072	.022	.131	.070	.021	.122	.066	.020	.114	.063	.019	.107	.059	.018		
4.0	.129	.067	.020	.125	.065	.019	.117	.062	.019	.110	.059	.018	.104	.056	.017		
5.0	.122	.062	.018	.119	.061	.018	.112	.059	.017	.106	.056	.017	.101	.054	.016		
6.0	.117	.058	.017	.114	.057	.017	.108	.055	.016	.103	.053	.016	.098	.052	.015		
7.0	.111	.055	.016	.109	.054	.015	.104	.053	.015	.099	.051	.015	.095	.049	.014		
8.0	.107	.052	.015	.104	.051	.015	.100	.050	.014	.096	.049	.014	.092	.047	.014		
9.0	.102	.050	.014	.100	.049	.014	.097	.048	.014	.093	.047	.013	.089	.045	.013		
10.0	.099	.047	.013	.097	.047	.013	.093	.046	.013	.090	.045	.013	.087	.044	.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	.112	.112	.112	.064	.064	.064	.020	.020	.020	
1.0	.170	.158	.147	.146	.136	.127	.100	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.153	.133	.117	.131	.115	.101	.090	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.139	.114	.094	.119	.098	.081	.082	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.128	.099	.077	.110	.086	.067	.075	.060	.047	.044	.035	.028	.014	.011	.009	
5.0	.118	.087	.064	.102	.075	.056	.070	.053	.039	.041	.031	.023	.013	.010	.008	
6.0	.110	.077	.054	.095	.067	.047	.065	.047	.033	.038	.028	.020	.012	.009	.007	
7.0	.103	.069	.046	.089	.060	.040	.061	.042	.028	.036	.025	.017	.012	.008	.006	
8.0	.097	.063	.040	.084	.055	.034	.058	.038	.024	.034	.023	.015	.011	.007	.005	
9.0	.092	.058	.034	.079	.050	.030	.055	.035	.021	.032	.021	.013	.010	.007	.004	
10.0	.087	.053	.030	.075	.046	.026	.052	.032	.019	.030	.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
2#反射器, ADR8CC 98054

UGR(Unified Glare Rating) Table

Test:U:120.3V I:0.2610A P:31.20W PF:0.9941 Lamp Flux:2458.17x1 lm										
NAME: 30ADL/40°lens 120-277V					TYPE:LED			WEIGHT:		
SPEC.:30ADL/40°lens 120-277V					DIM.:			SERIAL No.:02		
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	1.6	2.4	1.8	2.6	2.7	1.7	2.5	1.9	2.7	2.8
3H	1.5	2.2	1.7	2.4	2.6	1.6	2.3	1.8	2.5	2.7
4H	1.4	2.1	1.7	2.3	2.5	1.5	2.2	1.8	2.4	2.6
6H	1.3	1.9	1.6	2.2	2.4	1.4	2.0	1.7	2.3	2.5
8H	1.3	1.9	1.6	2.1	2.4	1.4	2.0	1.7	2.2	2.5
12H	1.2	1.8	1.5	2.1	2.3	1.3	1.9	1.6	2.2	2.4
4H 2H	1.4	2.1	1.6	2.3	2.5	1.5	2.2	1.8	2.4	2.6
3H	1.2	1.8	1.5	2.1	2.3	1.3	1.9	1.6	2.2	2.4
4H	1.1	1.7	1.5	1.9	2.3	1.2	1.8	1.6	2.1	2.4
6H	1.0	1.5	1.4	1.8	2.2	1.1	1.6	1.5	1.9	2.3
8H	1.0	1.4	1.4	1.8	2.1	1.1	1.5	1.5	1.9	2.2
12H	0.9	1.3	1.3	1.7	2.1	1.0	1.4	1.4	1.8	2.2
8H 4H	1.0	1.4	1.4	1.8	2.1	1.1	1.5	1.5	1.9	2.2
6H	0.9	1.2	1.3	1.6	2.0	1.0	1.3	1.4	1.7	2.1
8H	0.8	1.1	1.2	1.5	2.0	0.9	1.2	1.4	1.6	2.1
12H	0.7	1.0	1.2	1.5	1.9	0.8	1.1	1.3	1.6	2.0
12H 4H	0.9	1.3	1.3	1.7	2.1	1.0	1.4	1.4	1.8	2.2
6H	0.8	1.1	1.2	1.5	2.0	0.9	1.2	1.4	1.6	2.1
8H	0.7	1.0	1.2	1.5	1.9	0.8	1.1	1.3	1.6	2.0
Variations with the observer position at spacings:										
S = 1.0H	+ 4.1 / -12.9					+ 3.5 / -11.8				
1.5H	+ 6.7 / -11.1					+ 6.1 / -10.2				
2.0H	+ 6.9 / - 4.4					+ 6.2 / - 3.8				

CIE Pub.117 Corrected 2458 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:2018-01-29

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
2#反射器, ADR8CC 98054

UTILIZATION FACTORS TABLE

Test:U:120.3V I:0.2610A P:31.20W PF:0.9941 Lamp Flux:2458.17x1 lm		
NAME: 30ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/40°lens 120-277V	DIM.:	SERIAL No.:02
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) $k(RI) \times RCR = 5$									
$k = 0.60$	91	85	82	90	85	82	90	85	82	78
0.80	98	93	89	97	92	89	96	92	89	86
1.00	102	97	93	101	96	93	99	96	93	89
1.25	105	101	97	104	100	97	102	99	96	92
1.50	108	103	100	106	103	100	104	101	99	95
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	107	104	107	104	102	97
3.00	113	110	107	111	108	106	108	105	104	98
4.00	114	112	110	112	110	109	109	107	106	99
5.00	116	114	112	114	112	110	110	108	107	100
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, 40°lens
2#反射器, ADR8CC 98054

ISOCANDELA DIAGRAM

Test:U:120.3V I:0.2610A P:31.20W PF:0.9941 Lamp Flux:2458.17x1 lm		
NAME: 30ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/40°lens 120-277V	DIM.:	SERIAL No.:02
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

2446.1 lm

%lum = 99.5%

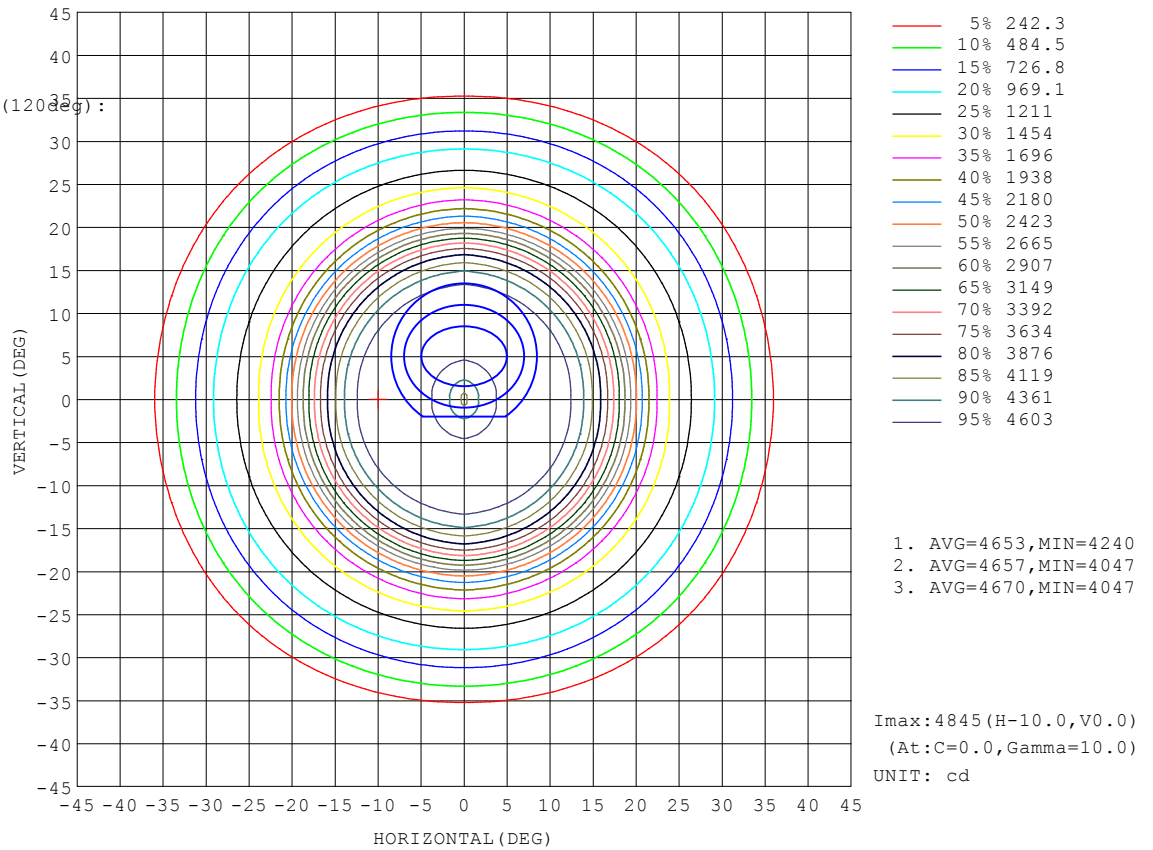
%lamp = 99.5%

Conical surface Flux(120deg):

2453.8 lm

%lum = 99.8%

%lamp = 99.8%

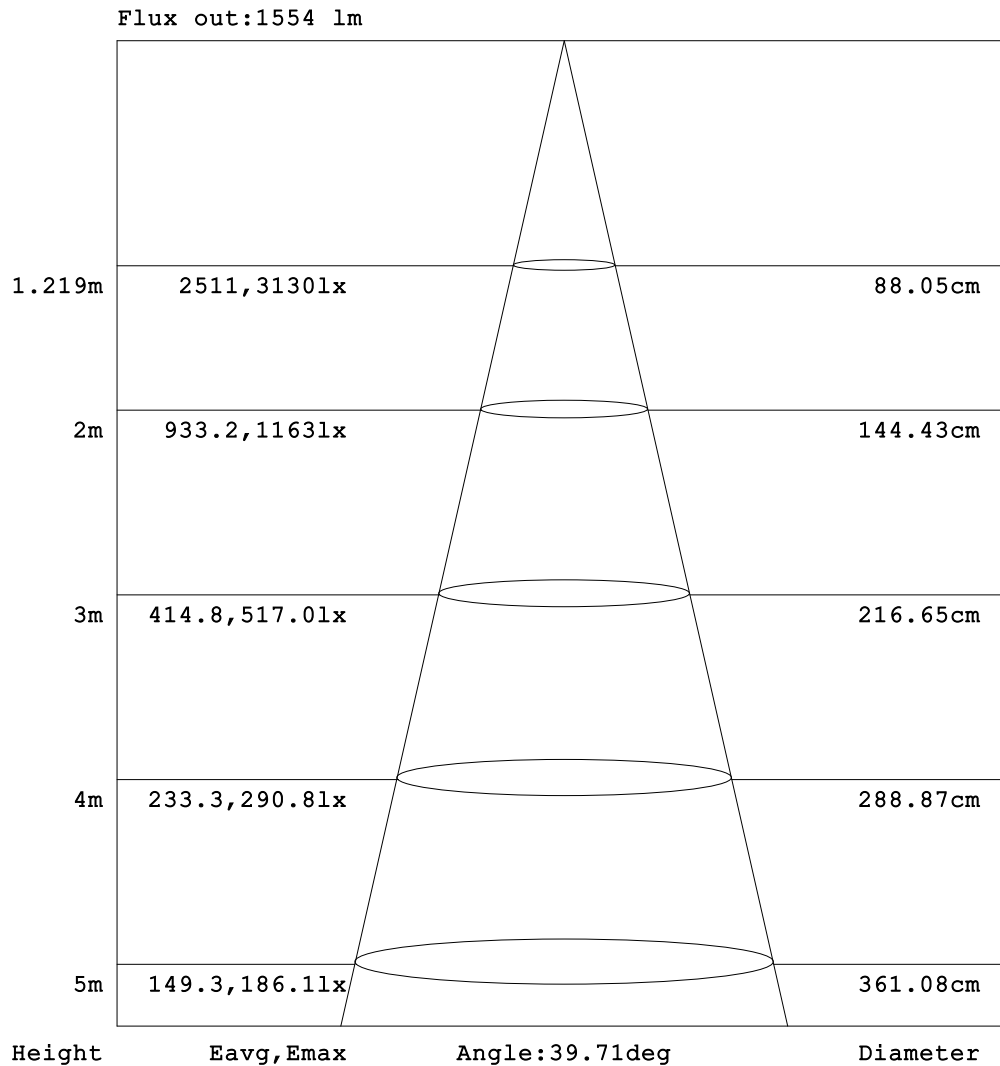


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Aaron
Test Date:2018-01-29

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, 40°lens
2#反射器, ADR8CC 98054

AAI Figure

Test:U:120.3V I:0.2610A P:31.20W PF:0.9941 Lamp Flux:2458.17x1 lm		
NAME: 30ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/40°lens 120-277V	DIM.:	SERIAL No.:02
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:



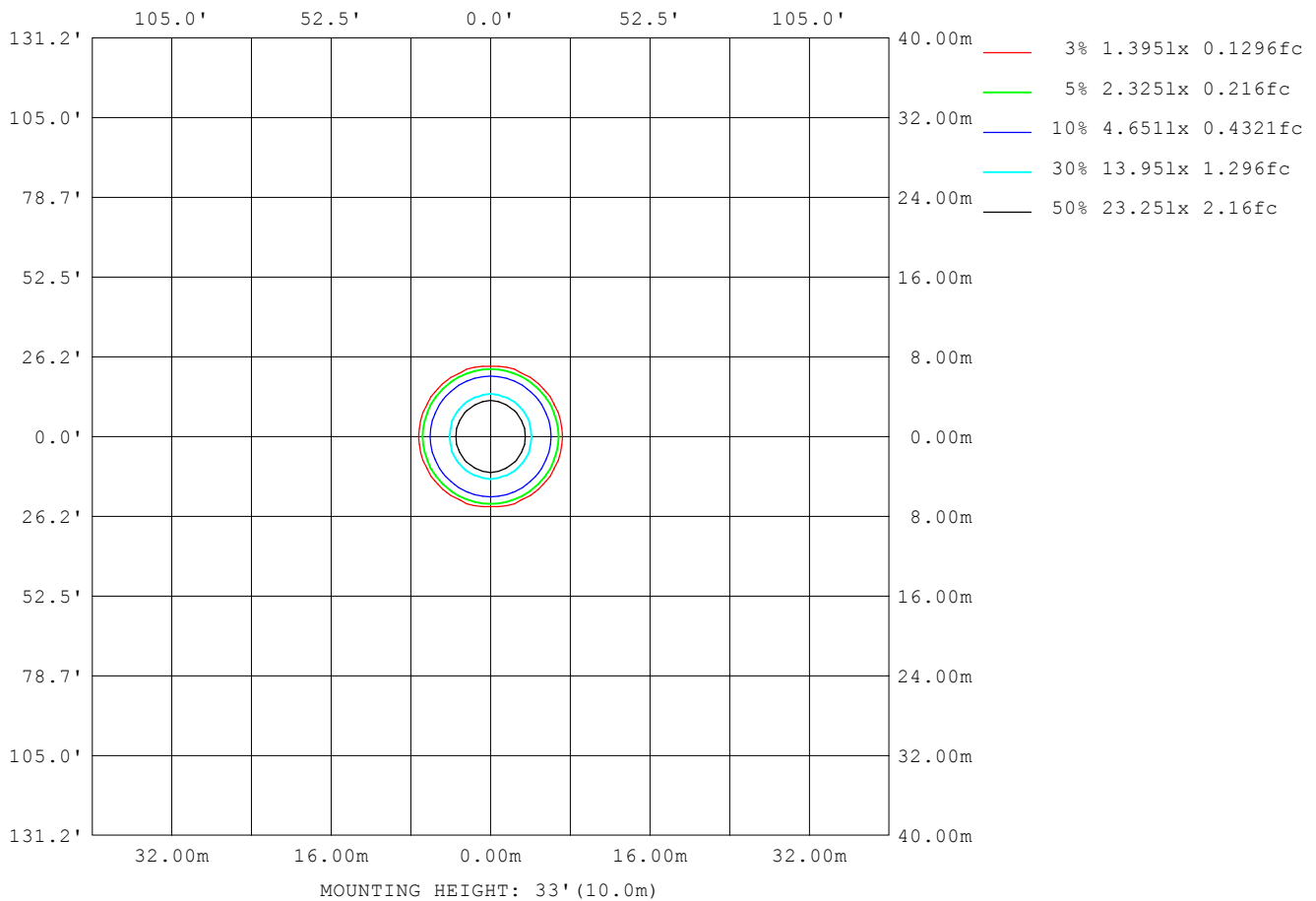
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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
2#反射器, ADR8CC 98054

ISOLUX DIAGRAM

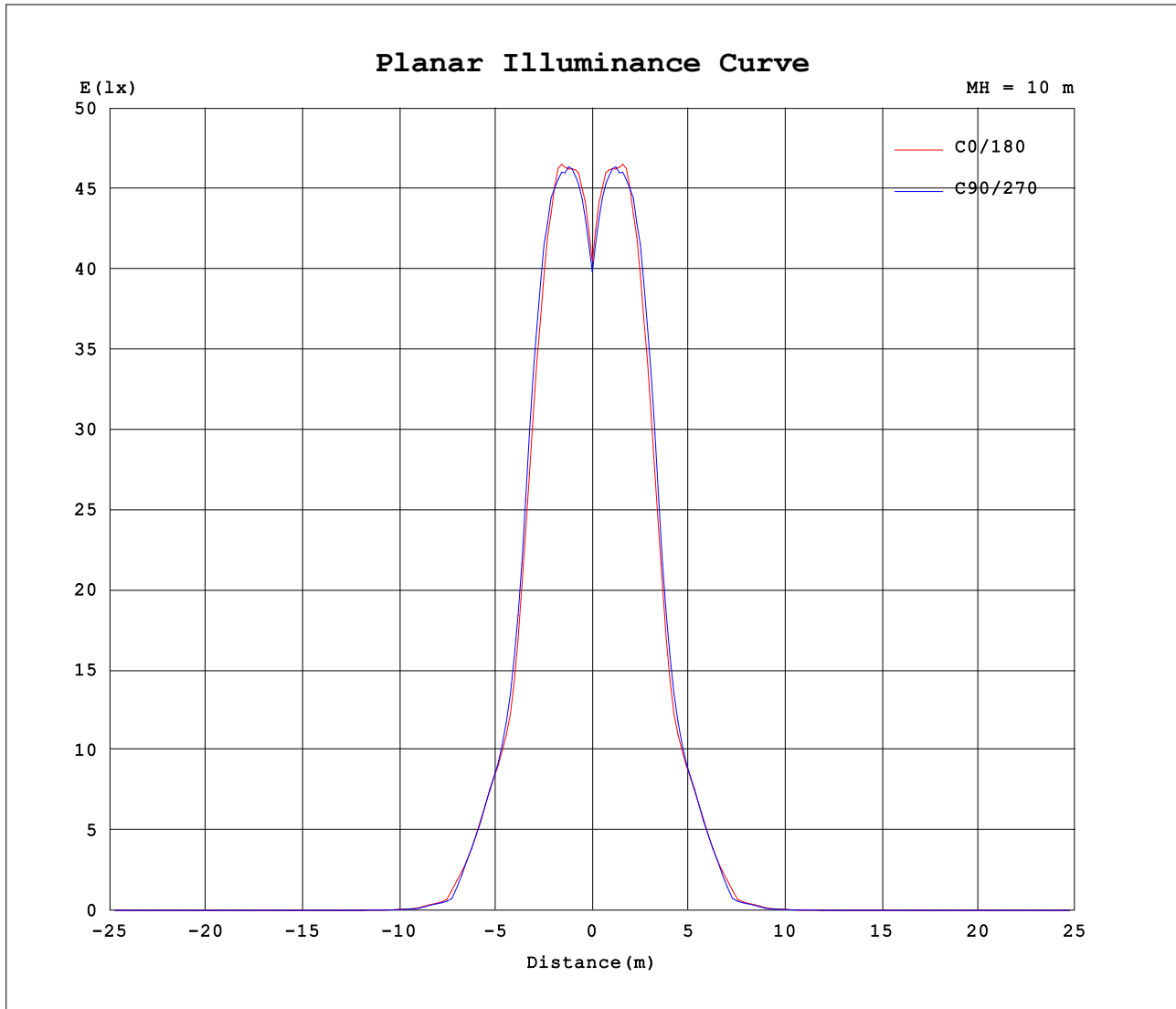
Test:U:120.3V I:0.2610A P:31.20W PF:0.9941 Lamp Flux:2458.17x1 lm		
NAME: 30ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/40°lens 120-277V	DIM.:	SERIAL No.:02
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:



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
2#反射器, ADR8CC 98054

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
2#反射器, ADR8CC 98054

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.3V I:0.2610A P:31.20W PF:0.9941 Lamp Flux:2458.17x1 lm		
NAME: 30ADL/40°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/40°lens 120-277V	DIM.:	SERIAL No.:02
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	4047	3980	4047	3980															
5	4671	4633	4671	4633															
10	4845	4772	4845	4772															
15	4094	4342	4094	4342															
20	2436	2603	2436	2603															
25	1340	1391	1340	1391															
30	877	859	877	859															
35	346	269	346	269															
40	82.1	74.0	82.1	74.0															
45	20.6	18.0	20.6	18.0															
50	6.57	6.59	6.57	6.59															
55	3.67	3.89	3.67	3.89															
60	2.17	2.39	2.17	2.39															
65	1.34	1.52	1.34	1.52															
70	0.83	0.96	0.83	0.96															
75	0.46	0.55	0.46	0.55															
80	0.16	0.19	0.16	0.19															
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	0.03	0.03	0.03	0.03															
130	0.22	0.20	0.22	0.20															
135	0.45	0.43	0.45	0.43															
140	0.71	0.67	0.71	0.67															
145	0.98	0.97	0.98	0.97															
150	1.26	1.25	1.26	1.25															
155	1.48	1.47	1.48	1.47															
160	1.60	1.60	1.60	1.60															
165	1.64	1.65	1.64	1.65															
170	1.67	1.69	1.67	1.69															
175	1.71	1.70	1.71	1.70															
180	1.74	1.70	1.74	1.70															

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, 40°lens
2#反射器, ADR8CC 98054