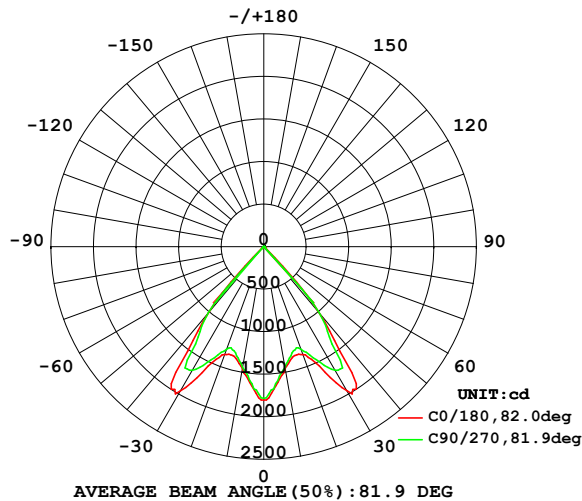


LUMINAIRE PHOTOMETRIC TEST REPORT

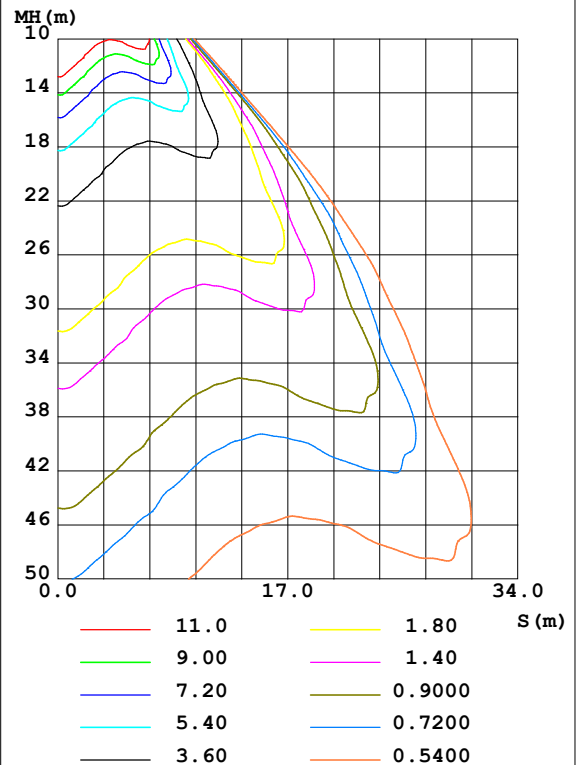
Test:U:120.3V I:0.2603A P:31.12W PF:0.9942 Lamp Flux:2444.65x1 lm		
NAME: 30ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/80°lens 120-277V	DIM.:	SERIAL No.:02
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 78.56 lm/W			
MODEL		I _{max} (cd)	2022	S/MH (C0/180)	1.19
NOMINAL POWER (W)	30	LOR (%)	100.0	S/MH (C90/270)	1.20
RATED VOLTAGE (V)	120-277	TOTAL FLUX (lm)	2444.6	η UP, DN (C0-180)	0.0, 50.0
NOMINAL FLUX (lm)	2444.65	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.0
LAMPS INSIDE	1	η up (%)	0.1	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	120	η down (%)	99.9	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: 2018-01-26

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, 80°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	1451	1445	1451	1445					0- 10	149.8	149.8	6.13
20	1349	1288	1349	1288					10- 20	377.4	527.2	21.6
30	1956	1678	1956	1678					20- 30	719.2	1246	51
40	1006	1013	1006	1013					30- 40	955.8	2202	90.1
50	27.41	15.07	27.41	15.07					40- 50	223.3	2425	99.2
60	8.680	4.439	8.680	4.439					50- 60	10.87	2436	99.7
70	3.519	1.740	3.519	1.740					60- 70	4.160	2440	99.8
80	1.358	0.5380	1.358	0.5380					70- 80	1.836	2442	99.9
90	0	0	0	0					80- 90	0.3490	2443	99.9
100	0	0	0	0					90-100	0	2443	99.9
110	0	0	0	0					100-110	0	2443	99.9
120	0.0253	0.1649	0.0253	0.1649					110-120	0.0270	2443	99.9
130	0.2911	0.4687	0.2911	0.4687					120-130	0.2133	2443	99.9
140	0.5379	0.7347	0.5379	0.7347					130-140	0.3980	2443	99.9
150	0.7848	0.9368	0.7848	0.9368					140-150	0.4729	2444	100
160	1.056	1.108	1.056	1.108					150-160	0.4332	2444	100
170	1.385	1.425	1.385	1.425					160-170	0.3437	2445	100
180	1.589	1.595	1.589	1.595					170-180	0.1427	2445	100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

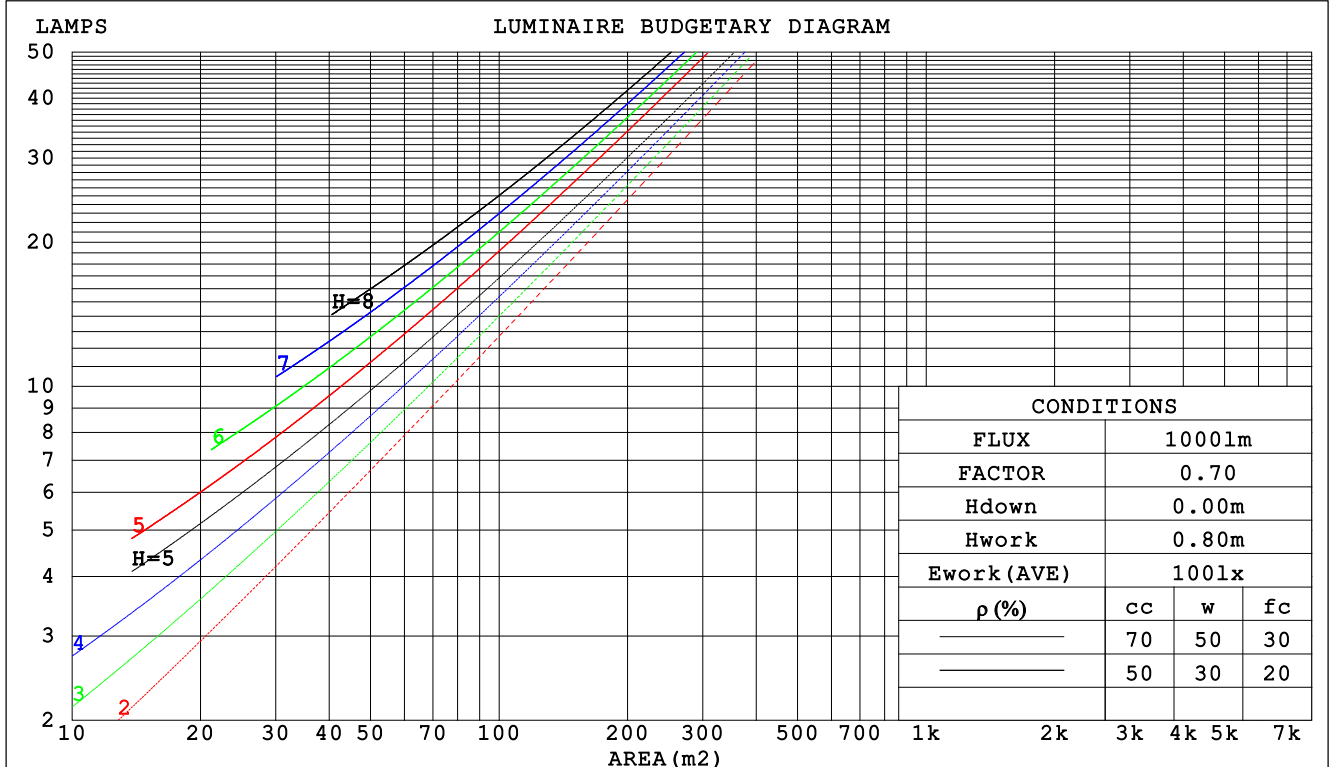
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Aaron
Test Date:2018-01-26

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, 80°lens
2#反射器, ADR8CC 98054

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.3V I:0.2603A P:31.12W PF:0.9942 Lamp Flux:2444.65x1 lm		
NAME: 30ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/80°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	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	1.10	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	.72	.66	.62	.71	.65	.61	.69	.64	.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	.55	.51	.60	.55	.51	.59	.54	.51	.49
9.0	.59	.52	.47	.58	.52	.47	.57	.51	.47	.56	.51	.47	.55	.50	.47	.45
10.0	.55	.48	.44	.54	.48	.44	.53	.47	.43	.52	.47	.43	.52	.47	.43	.42



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

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, 80°lens
2#反射器, ADR8CC 98054

WEC AND CCEC

Test:U:120.3V I:0.2603A P:31.12W PF:0.9942 Lamp Flux:2444.65x1 lm		
NAME: 30ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/80°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	.194	.110	.035	.187	.107	.034	.174	.100	.032	.163	.094	.030	.152	.088	.028		
2.0	.188	.103	.032	.182	.101	.031	.172	.095	.030	.162	.091	.028	.152	.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	.085	.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	.150	.077	.022	.144	.075	.022	.138	.073	.022		
7.0	.153	.075	.021	.150	.075	.021	.144	.073	.021	.139	.071	.021	.134	.069	.020		
8.0	.146	.071	.020	.143	.071	.020	.138	.069	.020	.134	.068	.020	.129	.066	.019		
9.0	.140	.068	.019	.138	.067	.019	.133	.066	.019	.129	.065	.018	.125	.063	.018		
10.0	.134	.064	.018	.132	.064	.018	.128	.063	.018	.124	.062	.018	.120	.061	.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	.115	.096	.093	.079	.067	.054	.046	.039	.017	.015	.013	
3.0	.148	.114	.088	.127	.099	.076	.087	.069	.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	.089	.057	.113	.077	.050	.078	.054	.035	.045	.031	.021	.014	.010	.007	
6.0	.124	.080	.048	.107	.069	.041	.074	.048	.029	.043	.028	.017	.014	.009	.006	
7.0	.119	.072	.040	.102	.063	.035	.070	.044	.025	.041	.026	.015	.013	.008	.005	
8.0	.113	.067	.034	.098	.058	.030	.067	.041	.021	.039	.024	.013	.013	.008	.004	
9.0	.108	.062	.030	.093	.053	.026	.065	.038	.018	.038	.022	.011	.012	.007	.004	
10.0	.104	.057	.026	.090	.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:2018-01-26

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, 80°lens
2#反射器, ADR8CC 98054

UGR(Unified Glare Rating) Table

Test:U:120.3V I:0.2603A P:31.12W PF:0.9942 Lamp Flux:2444.65x1 lm										
NAME: 30ADL/80°lens 120-277V					TYPE:LED			WEIGHT:		
SPEC.:30ADL/80°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	12.7	13.8	12.9	13.9	14.1	12.2	13.3	12.4	13.4	13.6
3H	12.5	13.5	12.8	13.7	13.9	12.0	13.0	12.3	13.2	13.4
4H	12.4	13.3	12.7	13.6	13.8	11.9	12.8	12.2	13.1	13.3
6H	12.3	13.2	12.6	13.4	13.7	11.8	12.7	12.1	12.9	13.2
8H	12.3	13.1	12.6	13.3	13.6	11.8	12.6	12.1	12.9	13.1
12H	12.2	13.0	12.5	13.3	13.6	11.7	12.5	12.0	12.8	13.1
4H 2H	12.4	13.3	12.7	13.5	13.8	11.9	12.8	12.2	13.1	13.3
3H	12.2	13.0	12.5	13.3	13.6	11.7	12.5	12.0	12.8	13.1
4H	12.1	12.8	12.5	13.1	13.5	11.6	12.3	12.0	12.6	13.0
6H	12.0	12.6	12.4	13.0	13.3	11.5	12.2	11.9	12.5	12.8
8H	12.0	12.6	12.4	12.9	13.3	11.5	12.1	11.9	12.4	12.8
12H	11.9	12.5	12.3	12.8	13.2	11.4	12.0	11.8	12.3	12.7
8H 4H	12.0	12.6	12.4	12.9	13.3	11.5	12.1	11.9	12.4	12.8
6H	11.9	12.4	12.3	12.7	13.2	11.4	11.9	11.8	12.3	12.7
8H	11.8	12.2	12.3	12.7	13.1	11.3	11.8	11.8	12.2	12.6
12H	11.8	12.1	12.2	12.6	13.0	11.3	11.6	11.8	12.1	12.6
12H 4H	11.9	12.5	12.3	12.8	13.2	11.4	12.0	11.8	12.3	12.7
6H	11.8	12.2	12.3	12.7	13.1	11.3	11.8	11.8	12.2	12.6
8H	11.8	12.1	12.2	12.6	13.0	11.3	11.6	11.8	12.1	12.6
Variations with the observer position at spacings:										
S = 1.0H	+ 2.9 / -20.5					+ 2.7 / -23.1				
1.5H	+ 5.7 / -19.3					+ 5.5 / -20.7				
2.0H	+10.5 / - 6.9					+ 4.3 / - 4.0				

CIE Pub.117 Corrected 2445 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, 80°lens
2#反射器, ADR8CC 98054

UTILIZATION FACTORS TABLE

Test:U:120.3V I:0.2603A P:31.12W PF:0.9942 Lamp Flux:2444.65x1 lm		
NAME: 30ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/80°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) $k(RI) \times RCR = 5$									
$k = 0.60$	85	79	75	85	78	75	84	78	74	71
0.80	93	87	83	93	87	83	91	86	83	79
1.00	98	92	89	97	92	88	96	92	88	84
1.25	102	97	93	101	96	93	99	95	92	88
1.50	105	100	97	104	100	96	102	98	95	91
2.00	108	104	101	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	107	104	106	104	102	95
4.00	114	111	108	111	109	107	108	106	104	97
5.00	115	112	110	113	111	109	109	107	106	98
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:2018-01-26

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, 80°lens
2#反射器, ADR8CC 98054

ISOCANDELA DIAGRAM

Test:U:120.3V I:0.2603A P:31.12W PF:0.9942 Lamp Flux:2444.65x1 lm		
NAME: 30ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/80°lens 120-277V	DIM.:	SERIAL No.:02
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

2410.5 lm

%lum = 98.6%

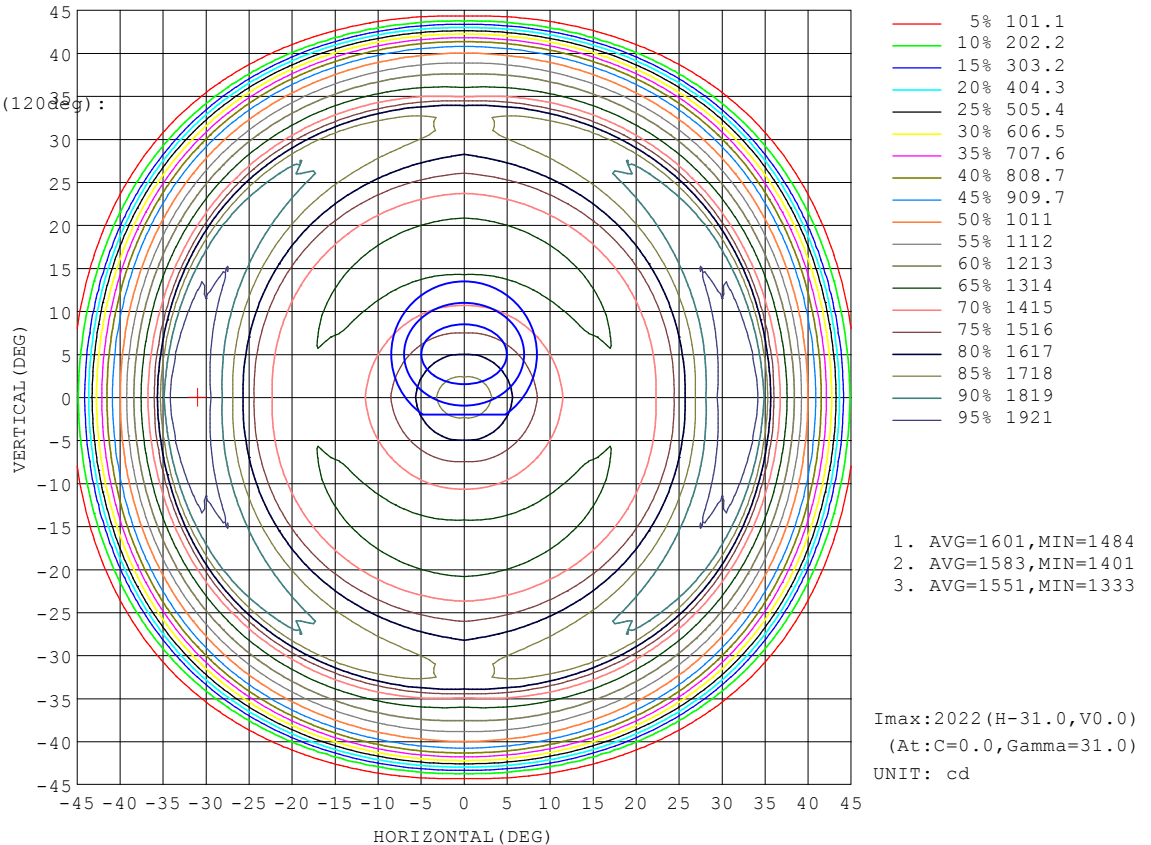
%lamp = 98.6%

Conical surface Flux(120deg):

2436.3 lm

%lum = 99.7%

%lamp = 99.7%

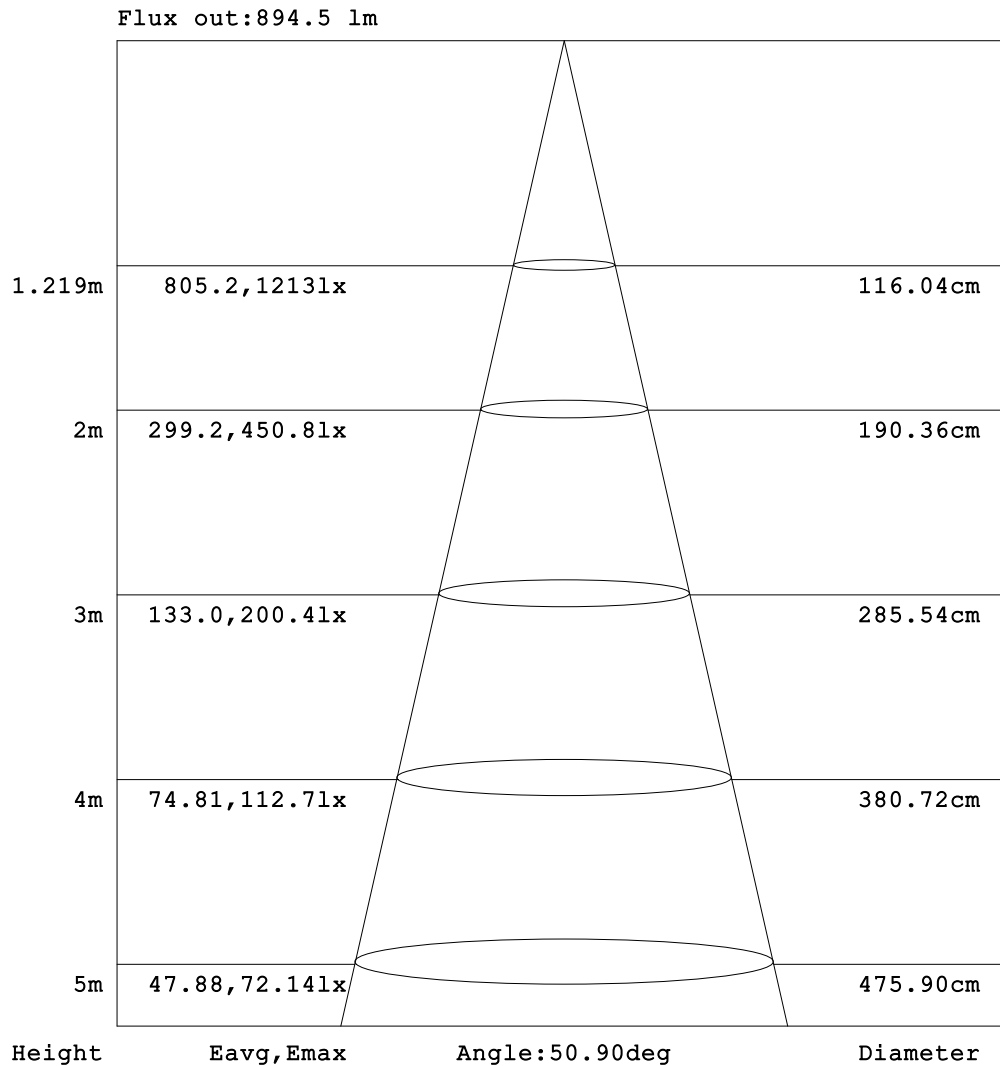


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Aaron
Test Date:2018-01-26

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, 80°lens
2#反射器, ADR8CC 98054

AAI Figure

Test:U:120.3V I:0.2603A P:31.12W PF:0.9942 Lamp Flux:2444.65x1 lm		
NAME: 30ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/80°lens 120-277V	DIM.:	SERIAL No.:02
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:



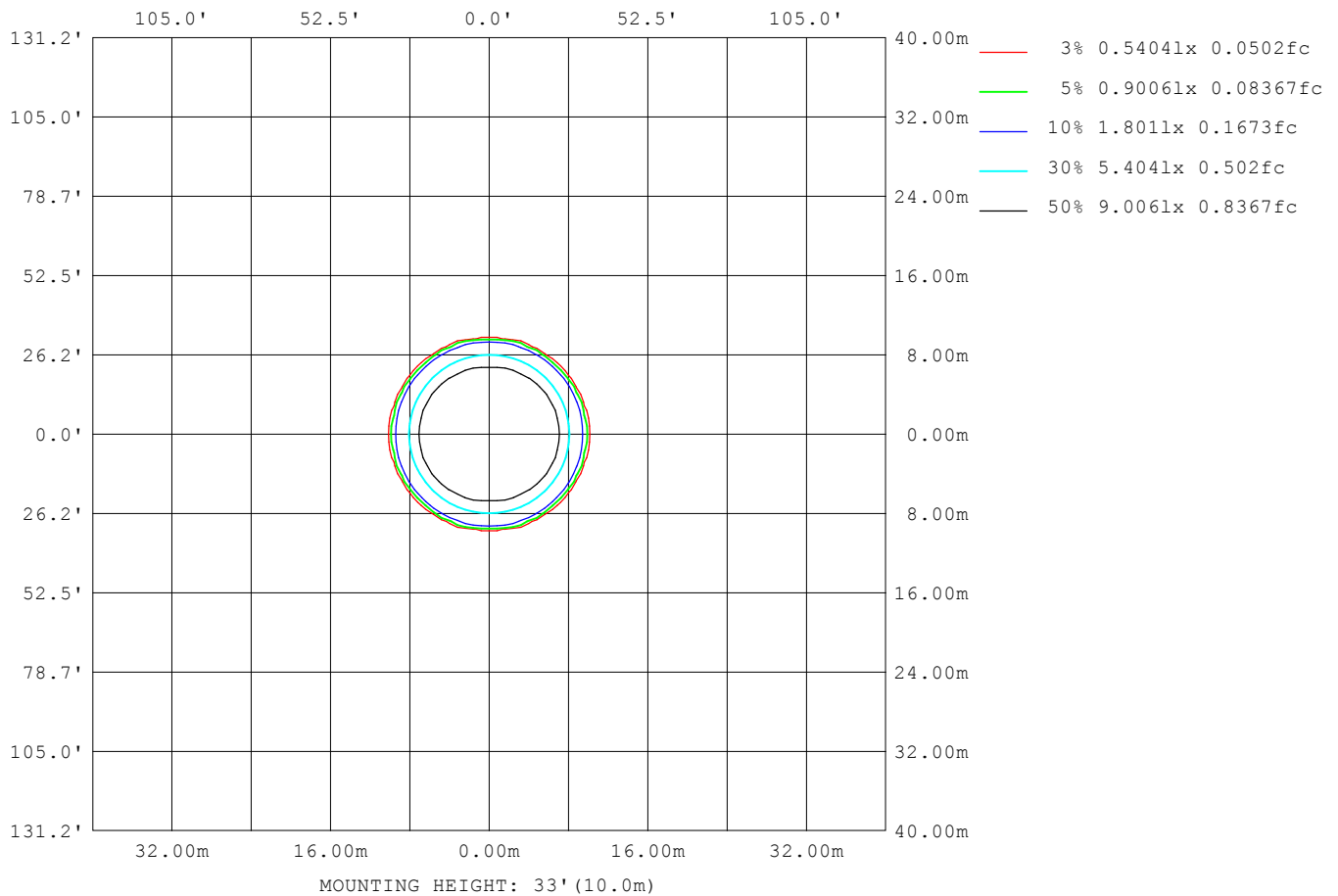
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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, 80°lens
2#反射器, ADR8CC 98054

ISOLUX DIAGRAM

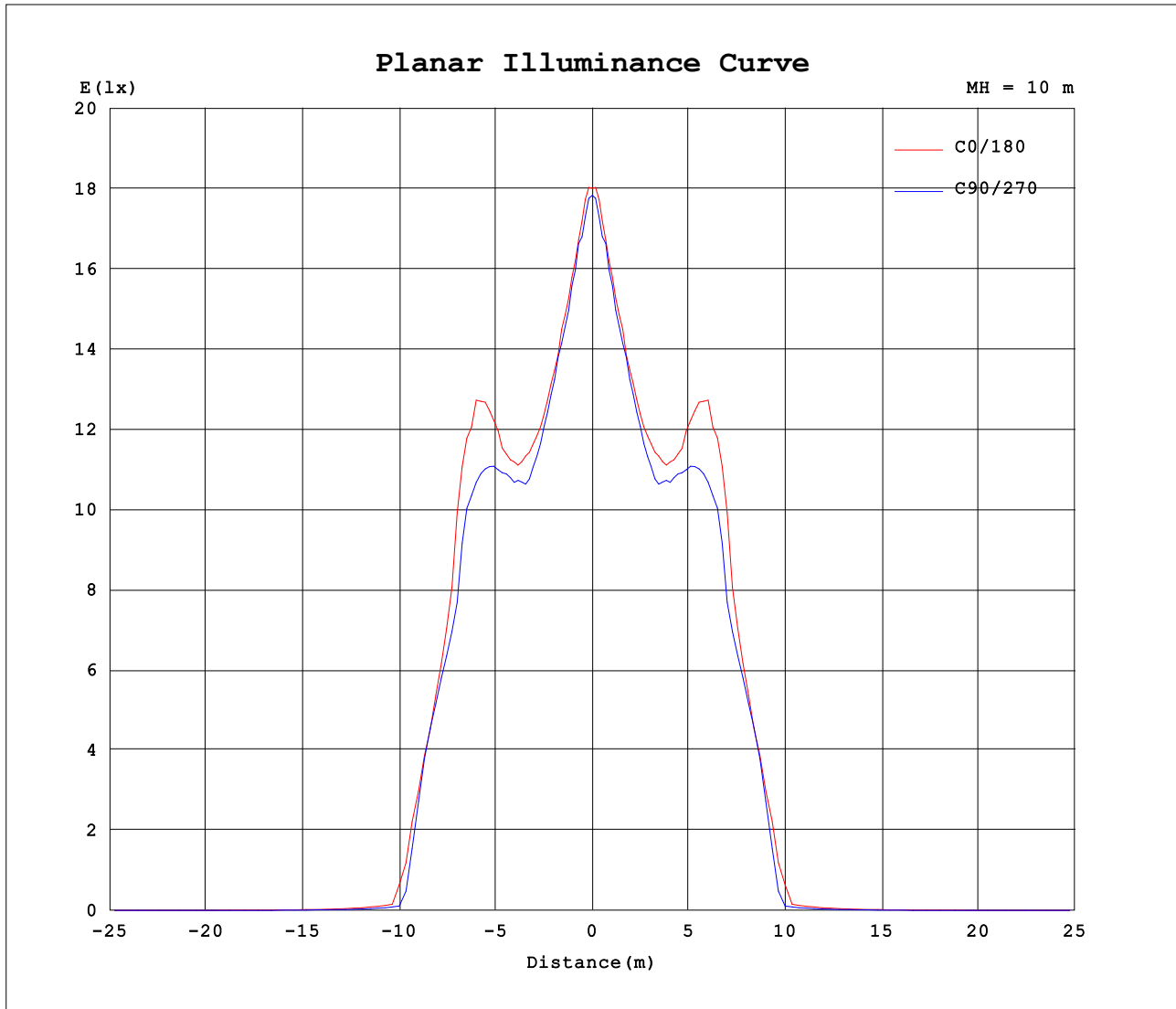
Test:U:120.3V I:0.2603A P:31.12W PF:0.9942 Lamp Flux:2444.65x1 lm		
NAME: 30ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/80°lens 120-277V	DIM.:	SERIAL No.:02
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:



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

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, 80°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: 2018-01-26

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, 80° lens
 2#反射器, ADR8CC 98054

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.3V I:0.2603A P:31.12W PF:0.9942 Lamp Flux:2444.65x1 lm		
NAME: 30ADL/80°lens 120-277V	TYPE:LED	WEIGHT:
SPEC.:30ADL/80°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	1801	1784	1801	1784															
5	1639	1616	1639	1616															
10	1451	1445	1451	1445															
15	1338	1292	1338	1292															
20	1349	1288	1349	1288															
25	1549	1467	1549	1467															
30	1956	1678	1956	1678															
35	1805	1399	1805	1399															
40	1006	1013	1006	1013															
45	184	32.4	184	32.4															
50	27.4	15.1	27.4	15.1															
55	14.9	7.94	14.9	7.94															
60	8.68	4.44	8.68	4.44															
65	5.36	2.72	5.36	2.72															
70	3.52	1.74	3.52	1.74															
75	2.31	1.13	2.31	1.13															
80	1.36	0.54	1.36	0.54															
85	0.44	0.01	0.44	0.01															
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	0.03	0.00	0.03															
120	0.03	0.16	0.03	0.16															
125	0.16	0.31	0.16	0.31															
130	0.29	0.47	0.29	0.47															
135	0.42	0.62	0.42	0.62															
140	0.54	0.73	0.54	0.73															
145	0.66	0.85	0.66	0.85															
150	0.78	0.94	0.78	0.94															
155	0.88	0.98	0.88	0.98															
160	1.06	1.11	1.06	1.11															
165	1.20	1.25	1.20	1.25															
170	1.39	1.42	1.39	1.42															
175	1.53	1.56	1.53	1.56															
180	1.59	1.60	1.59	1.60															

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, 80°lens
2#反射器, ADR8CC 98054