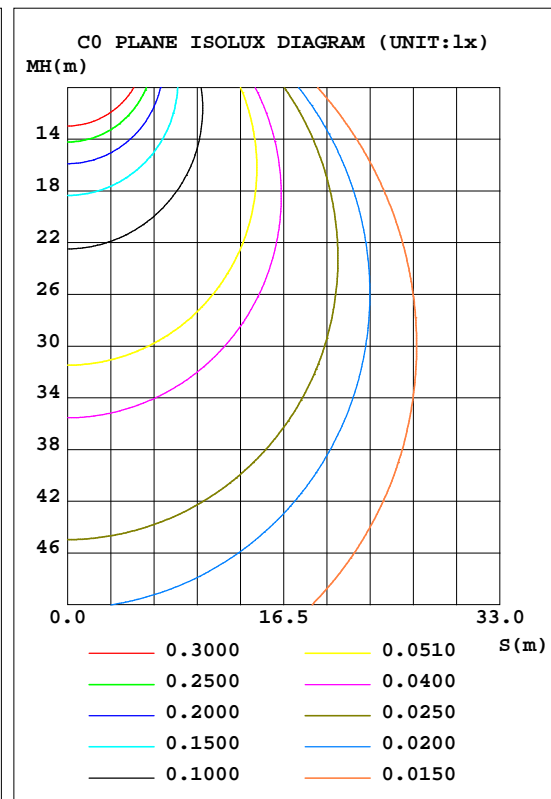
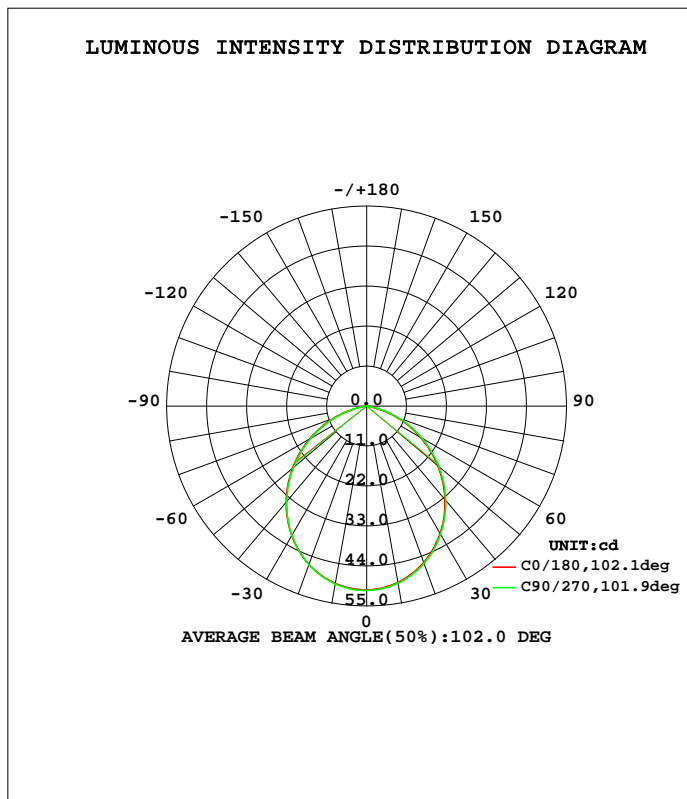


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.00V I:0.1035A P:2.484W PF:1.000 Lamp Flux:122.942x1 lm		
NAME: AD-107T-3K	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: Light By Lotus	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 49.50 lm/W			
MODEL	AD-107T-3K	I _{max} (cd)	50.71	S/MH(C0/180)	1.20
NOMINAL POWER(W)	2	LOR(%)	100.0	S/MH(C90/270)	1.20
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	122.94	η UP, DN(C0-180)	0.0, 49.3
NOMINAL FLUX(lm)	122.942	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 50.7
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	24.0	η down(%)	100.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2019-11-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.274
 Humidity:65.0%
 Test Distance:6.710m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	\$lum,lamp
10	49.27	49.49	49.55	49.69					0- 10	4.779	4.779	3.89,3.89
20	45.81	46.06	46.38	46.39					10- 20	13.56	18.34	14.9,14.9
30	40.44	40.70	41.22	41.10					20- 30	20.13	38.47	31.3,31.3
40	33.52	33.84	34.50	34.25					30- 40	23.50	61.97	50.4,50.4
50	25.57	25.99	26.67	26.32					40- 50	23.26	85.24	69.3,69.3
60	17.05	17.50	18.18	17.75					50- 60	19.58	104.8	85.3,85.3
70	8.350	8.822	9.478	9.039					60- 70	13.11	117.9	95.9,95.9
80	0.1396	0.5560	1.164	0.8198					70- 80	4.964	122.9	100,100
90	0	0	0	0					80- 90	0.0487	122.9	100,100
100	0	0	0	0					90-100	0	122.9	100,100
110	0	0	0	0					100-110	0	122.9	100,100
120	0	0	0	0					110-120	0	122.9	100,100
130	0	0	0	0					120-130	0	122.9	100,100
140	0	0	0	0					130-140	0	122.9	100,100
150	0	0	0	0					140-150	0	122.9	100,100
160	0	0	0	0					150-160	0	122.9	100,100
170	0	0	0	0					160-170	0	122.9	100,100
180	0	0	0	0					170-180	0	122.9	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

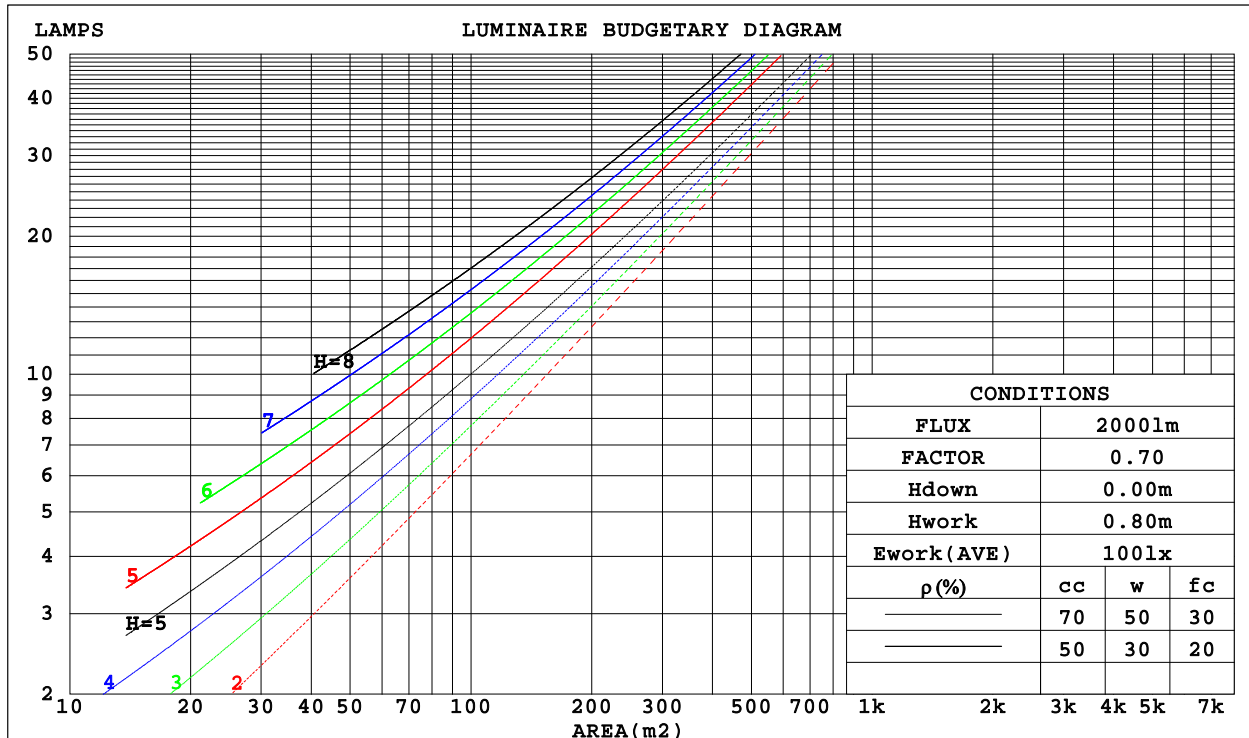
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2019-11-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.274
 Humidity:65.0%
 Test Distance:6.710m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.00V I:0.1035A P:2.484W PF:1.000 Lamp Flux:122.942x1 lm		
NAME: AD-107T-3K	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: Light By Lotus	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	1.00
1.0	1.06	1.02	.99	1.04	1.00	.97	.90	.97	.94	.96	.93	.91	.92	.90	.89	.87
2.0	.93	.87	.82	.92	.86	.81	.88	.83	.79	.85	.81	.77	.82	.79	.76	.74
3.0	.83	.75	.69	.81	.74	.68	.78	.72	.67	.76	.70	.66	.73	.69	.65	.63
4.0	.74	.65	.59	.72	.65	.59	.70	.63	.58	.68	.62	.57	.65	.60	.56	.54
5.0	.66	.58	.51	.65	.57	.51	.63	.56	.50	.61	.55	.50	.59	.54	.49	.47
6.0	.60	.51	.45	.59	.51	.45	.57	.50	.44	.55	.49	.44	.54	.48	.44	.42
7.0	.54	.46	.40	.53	.45	.40	.52	.45	.39	.51	.44	.39	.49	.43	.39	.37
8.0	.50	.41	.36	.49	.41	.36	.48	.40	.35	.46	.40	.35	.45	.39	.35	.33
9.0	.46	.38	.32	.45	.37	.32	.44	.37	.32	.43	.36	.32	.42	.36	.32	.30
10.0	.42	.34	.29	.42	.34	.29	.41	.34	.29	.40	.33	.29	.39	.33	.29	.27



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2019-11-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.274
 Humidity:65.0%
 Test Distance:6.710m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:24.00V I:0.1035A P:2.484W PF:1.000 Lamp Flux:122.942x1 lm		
NAME: AD-107T-3K	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: Light By Lotus	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	.269	.153	.049	.262	.150	.048	.249	.143	.046	.237	.137	.044	.226	.131	.042	
2.0	.263	.144	.044	.257	.142	.044	.246	.137	.042	.235	.132	.041	.225	.127	.040	
3.0	.249	.132	.040	.243	.130	.039	.233	.126	.038	.224	.123	.038	.215	.119	.037	
4.0	.233	.121	.036	.228	.119	.035	.219	.116	.035	.211	.113	.034	.203	.110	.034	
5.0	.218	.111	.032	.213	.110	.032	.205	.107	.031	.198	.104	.031	.191	.102	.031	
6.0	.203	.102	.029	.200	.101	.029	.193	.099	.029	.186	.097	.028	.180	.095	.028	
7.0	.190	.094	.027	.187	.093	.027	.181	.091	.026	.175	.090	.026	.169	.088	.026	
8.0	.179	.087	.025	.176	.087	.024	.170	.085	.024	.165	.083	.024	.160	.082	.024	
9.0	.168	.081	.023	.165	.081	.023	.160	.079	.022	.156	.078	.022	.151	.077	.022	
10.0	.159	.076	.021	.156	.075	.021	.152	.074	.021	.147	.073	.021	.143	.072	.021	

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.178	.156	.138	.152	.134	.118	.104	.092	.082	.060	.053	.048	.019	.017	.015	
2.0	.168	.132	.101	.144	.114	.088	.099	.079	.061	.057	.046	.036	.018	.015	.012	
3.0	.160	.114	.077	.138	.098	.067	.094	.068	.047	.055	.040	.028	.018	.013	.009	
4.0	.153	.101	.061	.131	.087	.053	.090	.061	.037	.052	.035	.022	.017	.012	.007	
5.0	.146	.090	.049	.125	.078	.043	.086	.054	.030	.050	.032	.018	.016	.010	.006	
6.0	.139	.082	.041	.119	.071	.035	.082	.049	.025	.048	.029	.015	.015	.010	.005	
7.0	.132	.075	.034	.114	.065	.030	.079	.045	.021	.046	.027	.013	.015	.009	.004	
8.0	.126	.069	.030	.109	.060	.026	.075	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.120	.064	.026	.104	.055	.023	.072	.039	.016	.042	.023	.010	.014	.008	.003	
10.0	.115	.060	.023	.099	.052	.020	.069	.036	.014	.040	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2019-11-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.274
 Humidity:65.0%
 Test Distance:6.710m [K=1.0000]
 Remarks:

Uncorrected UGR Table

Test:U:24.00V I:0.1035A P:2.484W PF:1.000 Lamp Flux:122.942x1 lm										
NAME: AD-107T-3K					TYPE:			WEIGHT:		
DIM.:					SPEC.:			SERIAL No.:		
MFR.: Light By Lotus					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	13.5	14.9	13.7	15.1	15.3	13.6	15.0	13.8	15.2	15.4
3H	14.5	15.8	14.7	16.0	16.2	14.6	15.9	14.9	16.1	16.4
4H	14.6	15.9	15.0	16.1	16.4	14.8	16.1	15.1	16.3	16.6
6H	14.6	15.8	14.9	16.0	16.3	14.8	16.0	15.1	16.2	16.5
8H	14.6	15.7	14.9	16.0	16.2	14.7	15.9	15.1	16.2	16.4
12H	14.5	15.6	14.8	15.9	16.2	14.7	15.8	15.0	16.1	16.4
4H 2H	13.9	15.2	14.2	15.4	15.7	14.0	15.3	14.3	15.5	15.8
3H	15.1	16.1	15.4	16.4	16.7	15.2	16.3	15.5	16.6	16.8
4H	15.3	16.3	15.7	16.6	16.9	15.5	16.4	15.8	16.8	17.1
6H	15.3	16.2	15.7	16.5	16.9	15.5	16.3	15.9	16.7	17.0
8H	15.2	16.0	15.6	16.4	16.8	15.4	16.2	15.8	16.6	17.0
12H	15.2	15.9	15.6	16.3	16.7	15.4	16.1	15.8	16.5	16.9
8H 4H	15.4	16.2	15.8	16.5	16.9	15.5	16.3	15.9	16.7	17.0
6H	15.3	16.0	15.8	16.4	16.8	15.5	16.2	15.9	16.6	17.0
8H	15.3	15.9	15.8	16.3	16.8	15.5	16.1	15.9	16.5	16.9
12H	15.3	15.8	15.7	16.2	16.7	15.4	15.9	15.9	16.4	16.8
12H 4H	15.3	16.0	15.7	16.4	16.8	15.5	16.2	15.9	16.6	17.0
6H	15.3	15.9	15.8	16.3	16.8	15.5	16.1	15.9	16.5	16.9
8H	15.3	15.8	15.7	16.2	16.7	15.4	15.9	15.9	16.4	16.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				
1.5H	+ 0.2 / - 0.5					+ 0.2 / - 0.4				
2.0H	+ 0.5 / - 0.5					+ 0.5 / - 0.5				

CIE Pub.117 Corrected 122.9 lm Total Lamp Luminous Flux. (8log(F/F0) = -7.3)

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2019-11-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.274
 Humidity: 65.0%
 Test Distance: 6.710m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:24.00V I:0.1035A P:2.484W PF:1.000 Lamp Flux:122.942x1 lm		
NAME: AD-107T-3K	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: Light By Lotus	SUR.:	PROTECTION ANGLE:

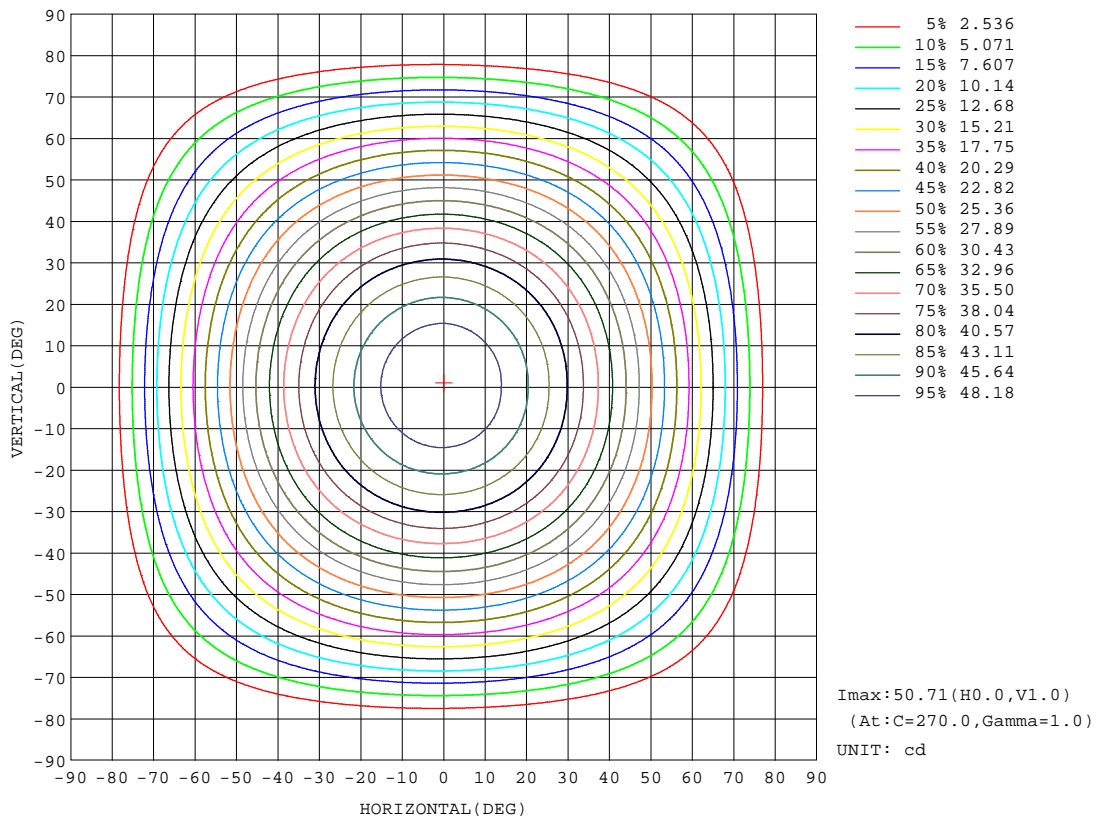
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	61	50	43	60	49	43	59	49	43	36
0.80	71	60	53	70	60	53	68	59	52	46
1.00	79	69	62	78	69	62	76	70	62	55
1.25	86	77	70	85	76	70	82	75	69	62
1.50	91	82	76	90	81	75	87	80	74	67
2.00	98	90	84	96	89	84	93	87	82	75
2.50	101	94	89	99	93	88	96	91	86	79
3.00	104	98	94	102	97	92	99	94	90	82
4.00	108	103	99	106	101	98	102	98	95	87
5.00	110	106	103	108	104	101	104	101	98	89
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:DAMIN
 Test Date:2019-11-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.274
 Humidity:65.0%
 Test Distance:6.710m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:24.00V I:0.1035A P:2.484W PF:1.000 Lamp Flux:122.942x1 lm		
NAME: AD-107T-3K	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: Light By Lotus	SUR.:	PROTECTION ANGLE:



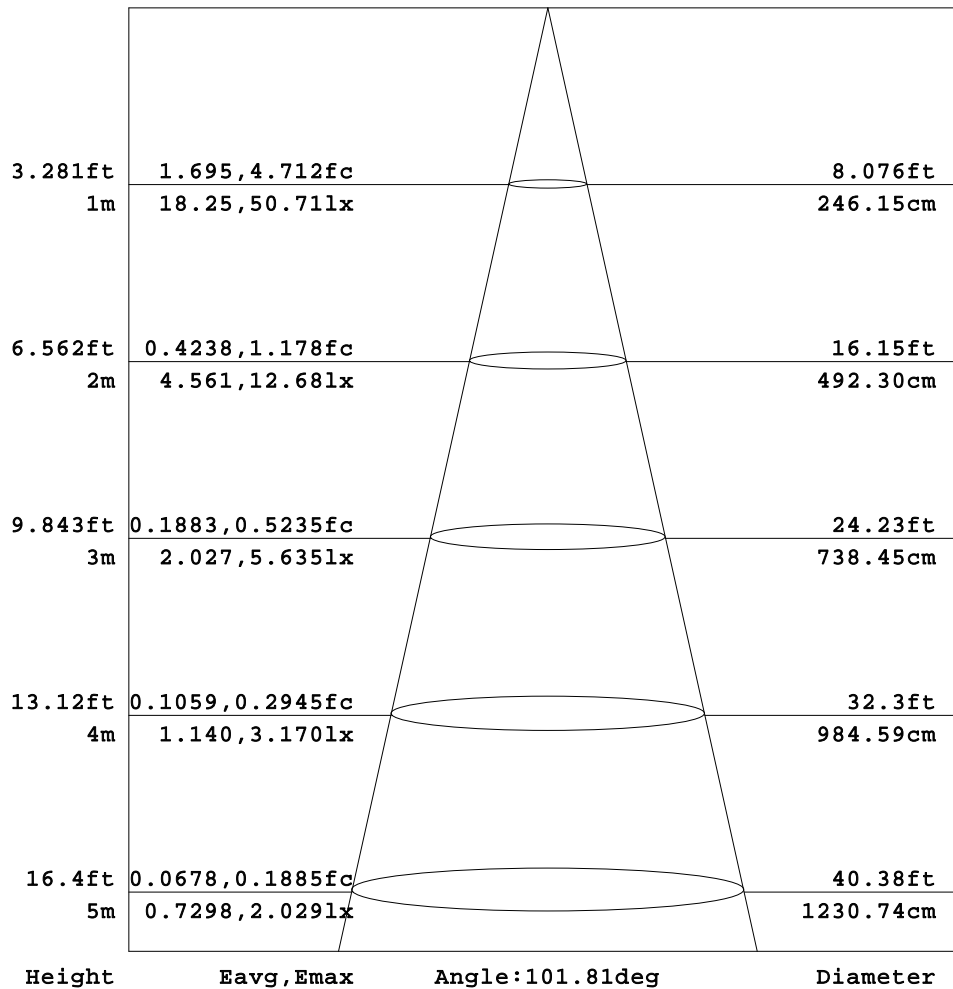
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2019-11-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.274
 Humidity:65.0%
 Test Distance:6.710m [K=1.0000]
 Remarks:

AAI Figure

Test:U:24.00V I:0.1035A P:2.484W PF:1.000 Lamp Flux:122.942x1 lm		
NAME: AD-107T-3K	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: Light By Lotus	SUR.:	PROTECTION ANGLE:

Flux out:87.41 lm



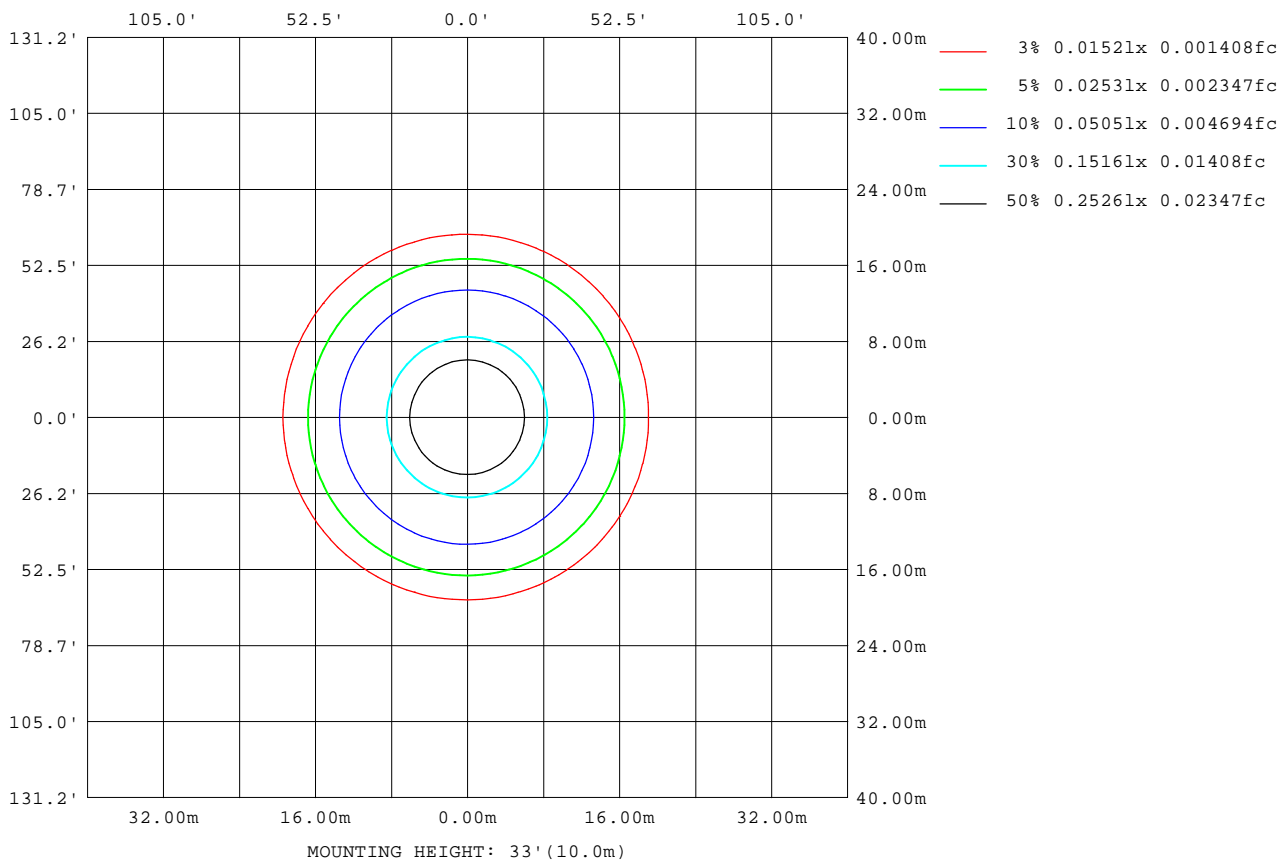
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2019-11-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.274
 Humidity: 65.0%
 Test Distance: 6.710m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

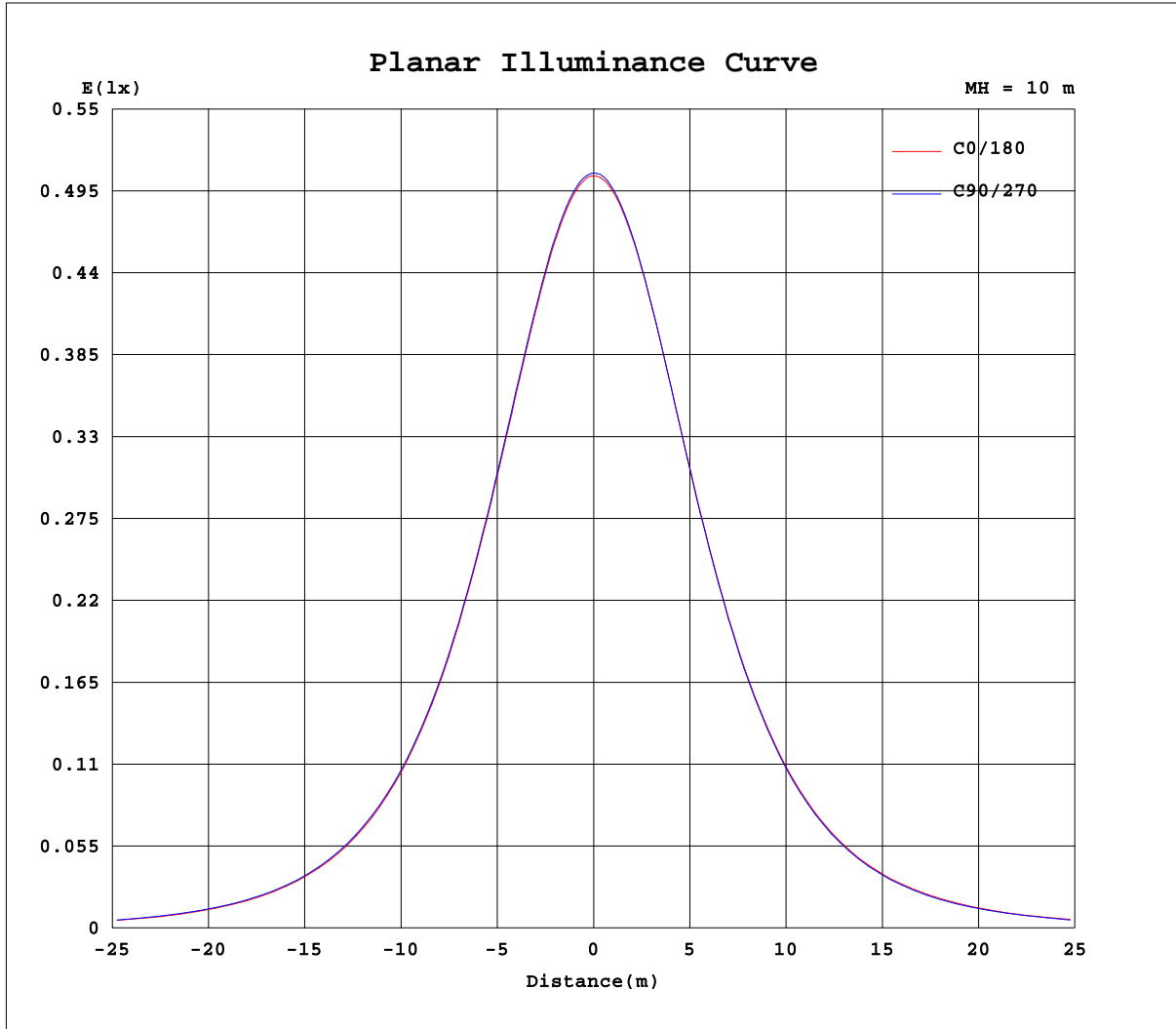
Test:U:24.00V I:0.1035A P:2.484W PF:1.000 Lamp Flux:122.942x1 lm		
NAME: AD-107T-3K	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: Light By Lotus	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2019-11-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.274
 Humidity: 65.0%
 Test Distance: 6.710m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2019-11-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.274
 Humidity: 65.0%
 Test Distance: 6.710m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.1035A P:2.484W PF:1.000 Lamp Flux:122.942x1 lm		
NAME: AD-107T-3K	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: Light By Lotus	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	90	180	270															
0	50.5	50.7	50.5	50.7															
5	50.2	50.4	50.3	50.5															
10	49.3	49.5	49.5	49.7															
15	47.8	48.0	48.2	48.3															
20	45.8	46.1	46.4	46.4															
25	43.3	43.6	44.0	44.0															
30	40.4	40.7	41.2	41.1															
35	37.1	37.4	38.0	37.9															
40	33.5	33.8	34.5	34.3															
45	29.6	30.0	30.7	30.4															
50	25.6	26.0	26.7	26.3															
55	21.4	21.8	22.5	22.1															
60	17.0	17.5	18.2	17.8															
65	12.7	13.2	13.8	13.4															
70	8.35	8.82	9.48	9.04															
75	4.12	4.59	5.22	4.82															
80	0.14	0.56	1.16	0.82															
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	0.00	0.00	0.00	0.00															
140	0.00	0.00	0.00	0.00															
145	0.00	0.00	0.00	0.00															
150	0.00	0.00	0.00	0.00															
155	0.00	0.00	0.00	0.00															
160	0.00	0.00	0.00	0.00															
165	0.00	0.00	0.00	0.00															
170	0.00	0.00	0.00	0.00															
175	0.00	0.00	0.00	0.00															
180	0.00	0.00	0.00	0.00															

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2019-11-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.274
 Humidity:65.0%
 Test Distance:6.710m [K=1.0000]
 Remarks: