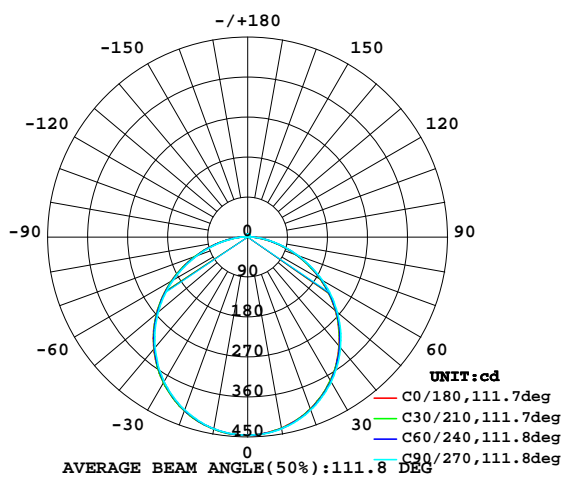


LUMINAIRE PHOTOMETRIC TEST REPORT

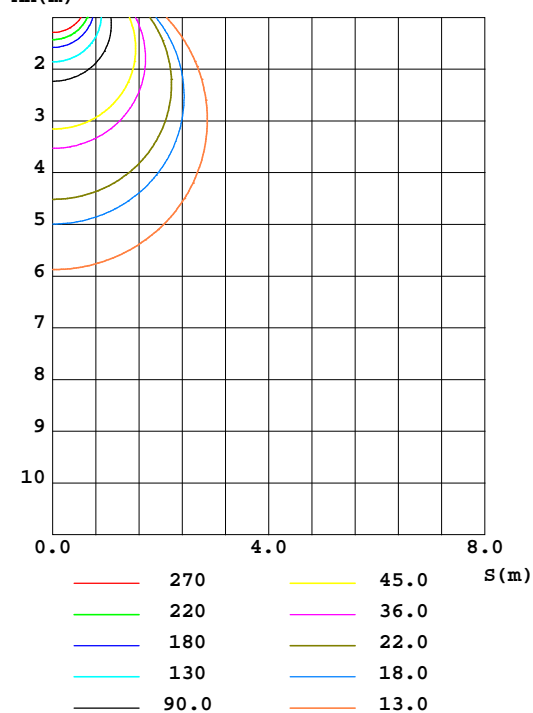
Test:U:240.2V I:0.0740A P:15.50W PF:0.8650 Lamp Flux:1299.8x1 lm		
NAME: AL12-10-12W-E	TYPE:12W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:1
MFR.:	SUR.:0.215X0.215	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 83.86 lm/W			
MODEL	AL12-10-12W-E	Imax(cd)	446.3	S/MH(C0/180)	1.26
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	1299.8	η UP,DN(C0-180)	0.9,49.2
NOMINAL FLUX(lm)	1299.8	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.9,48.9
LAMPS INSIDE	1	η up(%)	1.9	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	240.2	η down(%)	98.1	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2019-03-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.443m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum, lamp
10	438.6	438.6	438.2	437.1	436.5	437.2	438.0	439.0	0- 10	42.19	42.19	3.25,3.25
20	416.3	415.8	414.2	412.8	411.7	412.6	414.5	416.2	10- 20	120.8	163.0	12.5,12.5
30	378.8	377.9	376.1	373.6	372.6	373.6	376.1	378.5	20- 30	182.8	345.8	26.6,26.6
40	328.6	327.3	324.4	321.8	320.1	321.7	325.4	327.8	30- 40	220.0	565.8	43.5,43.5
50	267.6	266.3	263.0	259.8	258.1	259.9	263.8	266.6	40- 50	227.5	793.3	61.6,61
60	198.5	197.1	193.6	190.4	188.4	190.2	194.2	197.5	50- 60	204.8	998.1	76.8,76.8
70	124.5	123.5	120.4	117.3	115.6	117.1	120.3	123.9	60- 70	155.4	1154	88.7,88.7
80	56.04	55.96	53.13	50.85	49.45	50.63	54.00	55.84	70- 80	90.32	1244	95.7,95.7
90	10.26	12.40	11.91	11.35	9.099	9.670	8.955	10.84	80- 90	31.58	1275	98.1,98.1
100	1.597	1.784	3.264	2.307	2.557	1.990	1.601	1.526	90-100	5.343	1281	98.5,98.5
110	1.845	1.851	2.133	1.989	2.291	2.210	2.144	2.075	100-110	2.000	1283	98.7,98.7
120	2.719	2.727	2.775	2.857	3.148	3.108	3.025	2.976	110-120	2.447	1285	98.9,98.9
130	3.617	3.634	3.679	3.767	4.034	4.020	3.948	3.881	120-130	3.018	1288	99.1,99.1
140	4.492	4.515	4.566	4.634	4.898	4.859	4.799	4.728	130-140	3.290	1292	99.4,99.4
150	5.283	5.307	5.351	5.401	5.623	5.581	5.530	5.476	140-150	3.179	1295	99.6,99.6
160	5.967	5.982	6.028	6.070	6.207	6.182	6.141	6.101	150-160	2.664	1297	99.8,99.8
170	6.545	6.558	6.591	6.617	6.676	6.668	6.632	6.617	160-170	1.795	1299	100,100
180	6.849	6.853	6.860	6.873	6.866	6.856	6.848	6.867	170-180	0.6423	1300	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

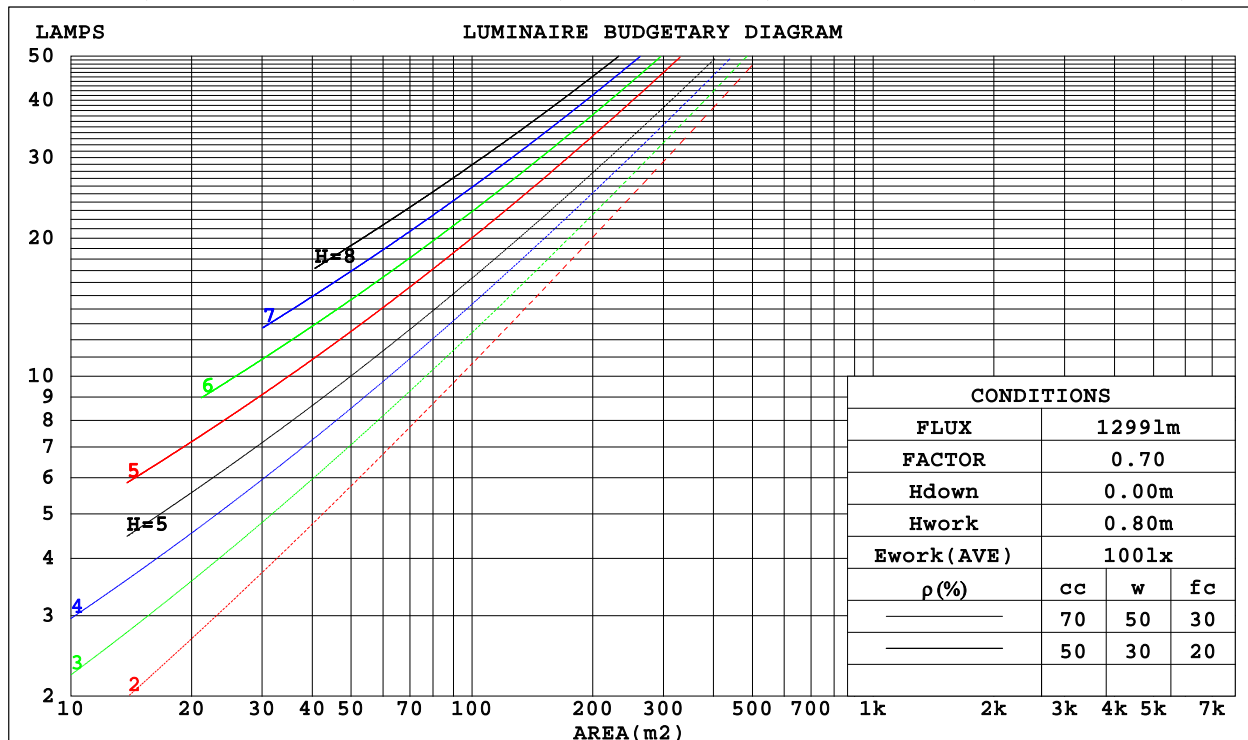
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2019-03-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.443m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:240.2V I:0.0740A P:15.50W PF:0.8650 Lamp Flux:1299.8x1 lm		
NAME: AL12-10-12W-E	TYPE:12W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:1
MFR.:	SUR.:0.215X0.215	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	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	.98
1.0	1.03	.99	.95	1.01	.97	.93	.96	.93	.90	.92	.89	.87	.88	.86	.84	.82
2.0	.90	.83	.77	.88	.81	.76	.84	.79	.74	.80	.76	.72	.77	.73	.70	.68
3.0	.79	.71	.64	.77	.69	.63	.74	.67	.62	.71	.65	.61	.68	.63	.59	.57
4.0	.70	.61	.54	.68	.60	.54	.66	.58	.53	.63	.57	.52	.61	.55	.51	.49
5.0	.62	.53	.47	.61	.53	.46	.59	.51	.46	.56	.50	.45	.54	.49	.44	.42
6.0	.56	.47	.41	.55	.46	.40	.53	.45	.40	.51	.44	.39	.49	.43	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.47	.40	.35	.45	.39	.34	.32
8.0	.46	.38	.32	.46	.37	.32	.44	.37	.31	.43	.36	.31	.41	.35	.31	.29
9.0	.42	.34	.29	.42	.34	.29	.41	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.37	.30	.26	.36	.30	.25	.35	.30	.25	.24



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2019-03-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity: 65.0%
 Test Distance: 9.443m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:240.2V I:0.0740A P:15.50W PF:0.8650 Lamp Flux:1299.8x1 lm		
NAME: AL12-10-12W-E	TYPE:12W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:1
MFR.:	SUR.:0.215X0.215	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	.315	.179	.057	.307	.175	.056	.293	.168	.054	.280	.161	.052	.267	.155	.050	
2.0	.294	.161	.049	.287	.158	.049	.274	.152	.047	.262	.147	.046	.252	.142	.045	
3.0	.271	.144	.043	.265	.142	.043	.254	.137	.042	.243	.133	.041	.233	.129	.040	
4.0	.249	.130	.038	.244	.128	.038	.234	.124	.037	.225	.121	.036	.216	.117	.036	
5.0	.230	.117	.034	.226	.116	.034	.217	.113	.033	.208	.110	.033	.201	.107	.032	
6.0	.214	.107	.031	.209	.106	.030	.201	.103	.030	.194	.101	.030	.187	.098	.029	
7.0	.199	.098	.028	.195	.097	.028	.188	.095	.027	.181	.093	.027	.175	.091	.027	
8.0	.185	.091	.025	.182	.090	.025	.176	.088	.025	.170	.086	.025	.164	.084	.025	
9.0	.174	.084	.023	.171	.083	.023	.165	.082	.023	.159	.080	.023	.154	.078	.023	
10.0	.163	.078	.022	.161	.078	.022	.155	.076	.021	.150	.075	.021	.146	.073	.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	.205	.205	.205	.175	.175	.175	.119	.119	.119	.069	.069	.069	.022	.022	.022	
1.0	.195	.170	.148	.167	.146	.128	.114	.101	.088	.066	.058	.051	.021	.019	.017	
2.0	.187	.146	.112	.160	.126	.097	.110	.087	.068	.063	.051	.040	.020	.016	.013	
3.0	.179	.129	.089	.154	.111	.077	.105	.077	.054	.061	.045	.032	.020	.015	.010	
4.0	.172	.116	.073	.147	.100	.063	.101	.070	.045	.059	.041	.026	.019	.013	.009	
5.0	.164	.105	.062	.141	.091	.054	.097	.064	.038	.056	.037	.023	.018	.012	.007	
6.0	.157	.097	.054	.135	.084	.047	.093	.059	.033	.054	.035	.020	.017	.011	.007	
7.0	.150	.090	.048	.129	.078	.042	.089	.055	.030	.052	.032	.018	.017	.011	.006	
8.0	.144	.084	.044	.124	.073	.038	.086	.051	.027	.050	.030	.016	.016	.010	.005	
9.0	.138	.079	.040	.119	.069	.035	.082	.048	.025	.048	.029	.015	.015	.009	.005	
10.0	.132	.075	.037	.114	.065	.033	.079	.046	.023	.046	.027	.014	.015	.009	.005	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2019-03-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.443m [K=1.0000]
 Remarks:

Uncorrected UGR Table

Test:U:240.2V I:0.0740A P:15.50W PF:0.8650 Lamp Flux:1299.8x1 lm											
NAME: AL12-10-12W-E					TYPE:12W			WEIGHT:			
DIM.:					SPEC.:4000K			SERIAL No.:1			
MFR.:					SUR.:0.215X0.215			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	20.4	21.9	20.7	22.2	22.4	20.3	21.8	20.6	22.0	22.3	
	3H	22.0	23.3	22.3	23.6	23.9	21.8	23.2	22.1	23.4	23.7
	4H	22.6	23.9	22.9	24.2	24.5	22.4	23.7	22.7	24.0	24.3
	6H	23.1	24.3	23.4	24.6	24.9	22.8	24.1	23.2	24.4	24.7
	8H	23.2	24.4	23.6	24.7	25.1	23.0	24.2	23.4	24.5	24.8
	12H	23.4	24.5	23.7	24.8	25.2	23.1	24.3	23.5	24.6	25.0
4H	2H	21.0	22.3	21.4	22.6	22.9	20.9	22.2	21.3	22.5	22.8
	3H	22.7	23.9	23.1	24.2	24.6	22.6	23.7	23.0	24.1	24.4
	4H	23.5	24.5	23.9	24.9	25.3	23.3	24.4	23.7	24.7	25.1
	6H	24.1	25.0	24.5	25.4	25.8	23.9	24.8	24.3	25.2	25.6
	8H	24.3	25.2	24.8	25.6	26.0	24.1	25.0	24.6	25.4	25.8
	12H	24.5	25.3	25.0	25.8	26.2	24.3	25.1	24.8	25.5	26.0
8H	4H	23.8	24.6	24.2	25.0	25.5	23.6	24.5	24.1	24.9	25.3
	6H	24.5	25.3	25.0	25.7	26.2	24.4	25.1	24.8	25.5	26.0
	8H	24.9	25.5	25.4	26.0	26.5	24.7	25.3	25.2	25.8	26.3
	12H	25.2	25.7	25.7	26.2	26.7	25.0	25.5	25.5	26.0	26.5
12H	4H	23.8	24.6	24.2	25.0	25.4	23.6	24.4	24.1	24.9	25.3
	6H	24.6	25.3	25.1	25.7	26.2	24.4	25.1	24.9	25.5	26.0
	8H	25.0	25.6	25.5	26.0	26.6	24.8	25.4	25.3	25.8	26.4
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.2					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.1 / - 0.3					+ 0.1 / - 0.3					

CIE Pub.117 Corrected 1300 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.9)

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2019-03-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.443m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:240.2V I:0.0740A P:15.50W PF:0.8650 Lamp Flux:1299.8x1 lm		
NAME: AL12-10-12W-E	TYPE:12W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:1
MFR.:	SUR.:0.215X0.215	PROTECTION ANGLE:

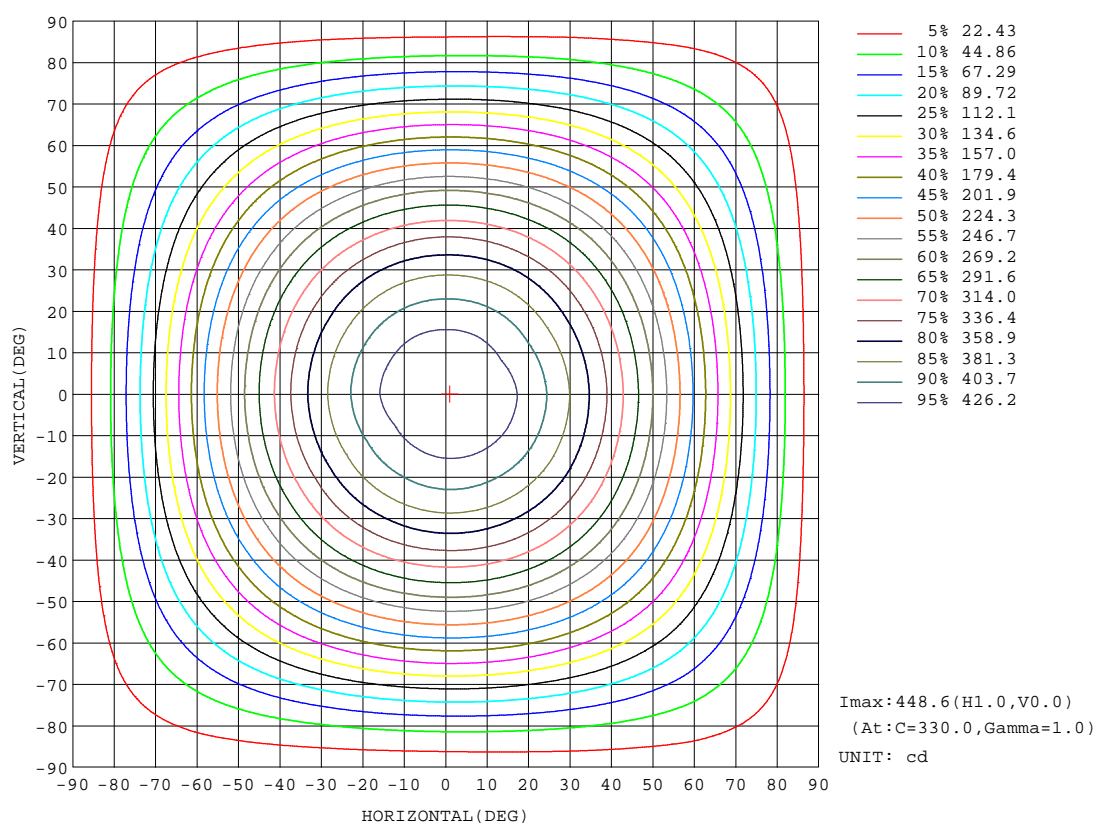
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	45	38	56	45	38	55	44	38	31
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	63	56	71	65	56	48
1.25	82	72	64	81	71	64	78	69	63	55
1.50	87	77	70	85	76	70	82	74	68	61
2.00	94	85	79	92	84	78	88	82	76	68
2.50	98	90	84	96	89	83	92	86	81	72
3.00	101	94	89	99	93	88	95	90	85	76
4.00	105	100	95	103	98	93	98	94	90	81
5.00	108	103	99	105	101	97	100	97	94	84
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2019-03-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.443m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:240.2V I:0.0740A P:15.50W PF:0.8650 Lamp Flux:1299.8x1 lm		
NAME: AL12-10-12W-E	TYPE:12W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:1
MFR.:	SUR.:0.215x0.215	PROTECTION ANGLE:



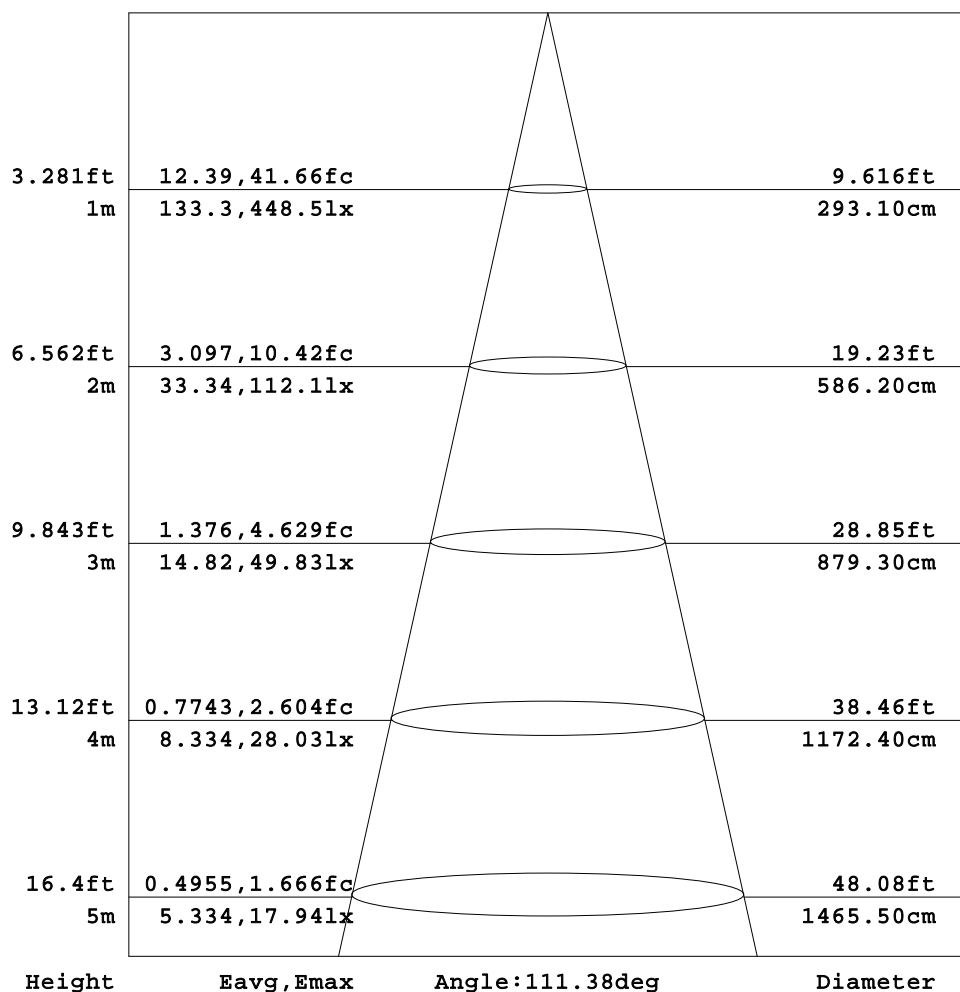
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2019-03-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:9.443m [K=1.0000]
Remarks:

AAI Figure

Test:U:240.2V I:0.0740A P:15.50W PF:0.8650 Lamp Flux:1299.8x1 lm		
NAME: AL12-10-12W-E	TYPE:12W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:1
MFR.:	SUR.:0.215x0.215	PROTECTION ANGLE:

Flux out:920.8 lm



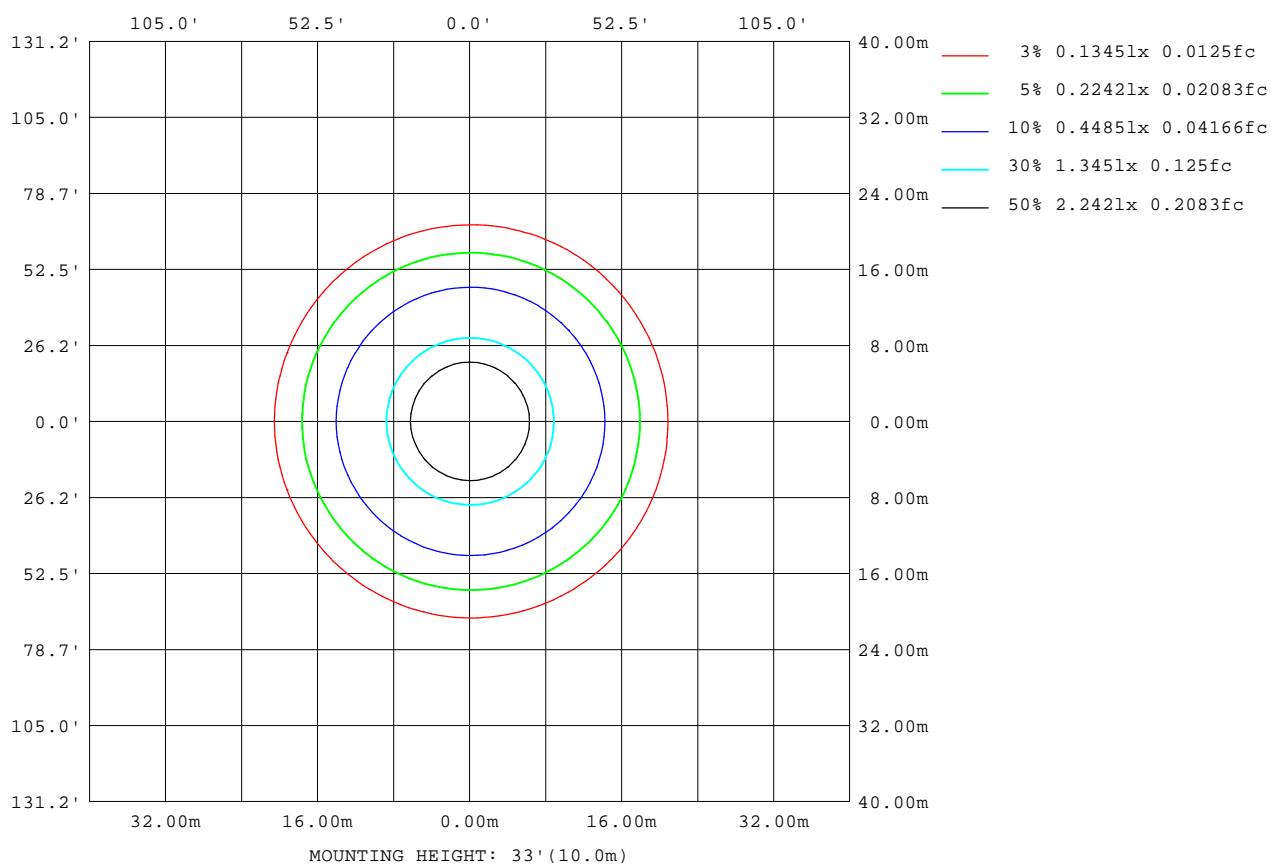
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2019-03-16

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.276
Humidity: 65.0%
Test Distance: 9.443m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

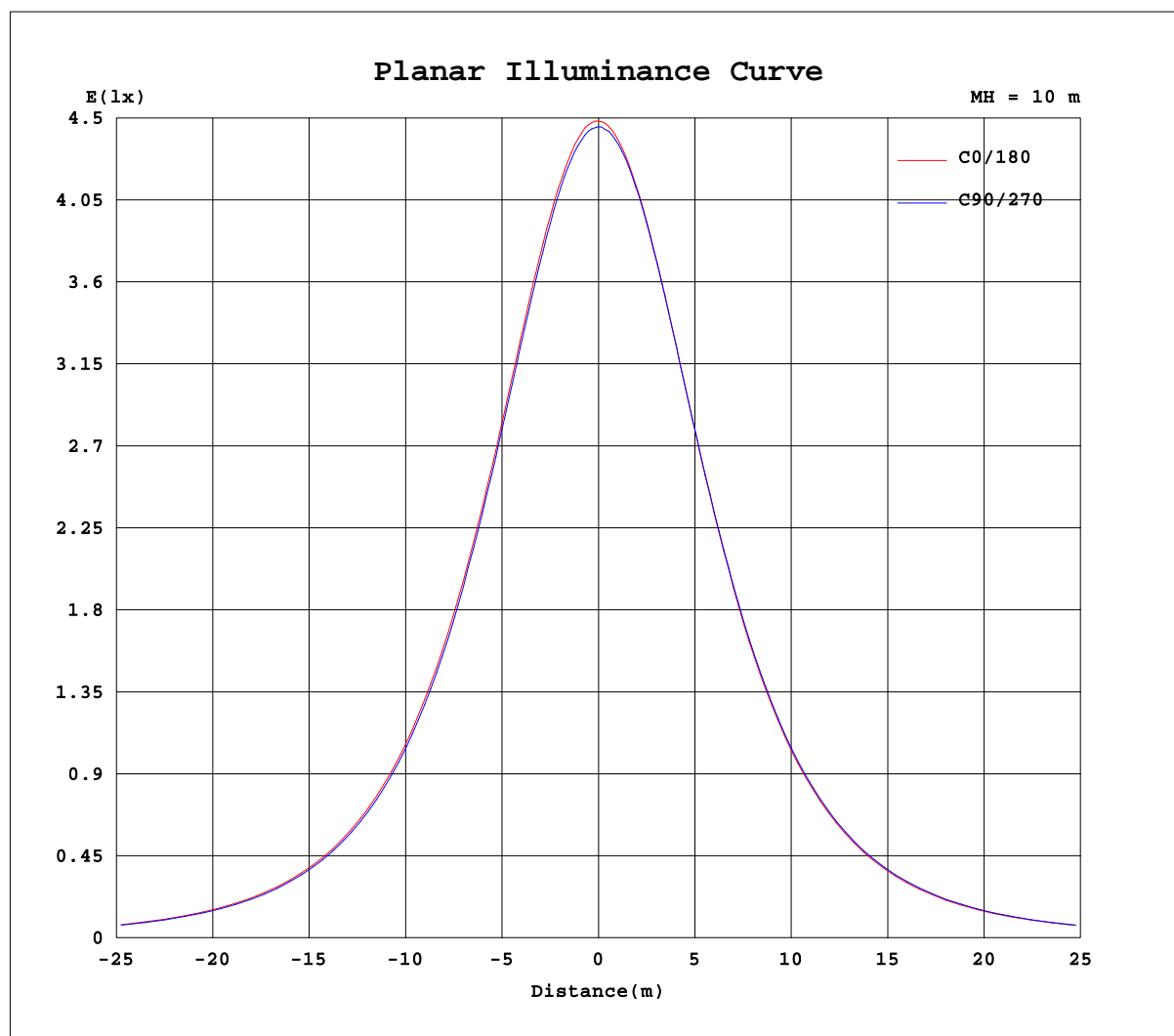
Test:U:240.2V I:0.0740A P:15.50W PF:0.8650 Lamp Flux:1299.8x1 lm		
NAME: AL12-10-12W-E	TYPE:12W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:1
MFR.:	SUR.:0.215x0.215	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2019-03-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:9.443m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2019-03-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.276
Humidity: 65.0%
Test Distance: 9.443m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:240.2V I:0.0740A P:15.50W PF:0.8650 Lamp Flux:1299.8x1 lm		
NAME: AL12-10-12W-E	TYPE:12W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:1
MFR.:	SUR.:0.215X0.215	PROTECTION ANGLE:

Table--1

UNIT: cd

C(DEC) γ (DEC)	0	30	60	90	120	150	180	210	240	270	300	330						
0	446	446	446	446	446	446	446	446	446	446	446	446						
5	445	445	444	444	444	444	443	444	444	444	444	445						
10	439	439	438	438	437	437	437	437	438	438	439	439						
15	430	430	429	428	427	427	426	426	428	428	430	430						
20	416	416	415	414	413	412	412	412	413	414	416	416						
25	399	399	398	397	395	395	394	394	396	397	399	399						
30	379	379	377	376	374	373	373	373	374	376	378	379						
35	355	356	354	352	350	348	348	348	350	352	354	355						
40	329	328	327	324	323	321	320	321	322	325	327	329						
45	300	299	297	295	293	291	290	291	293	296	298	299						
50	268	267	265	263	261	259	258	259	261	264	266	267						
55	234	233	232	229	227	225	224	225	227	230	232	234						
60	199	198	196	194	191	189	188	189	191	194	197	198						
65	161	162	159	157	154	153	152	152	155	157	160	161						
70	125	125	122	120	118	117	116	116	118	120	123	125						
75	88.7	89.4	86.8	85.0	82.7	81.8	80.7	80.9	83.0	85.0	87.6	88.8						
80	56.0	57.0	54.9	53.1	51.1	50.6	49.5	49.3	51.9	54.0	55.9	55.8						
85	28.7	30.4	29.2	27.4	26.2	25.8	24.3	24.9	26.8	27.6	29.6	29.5						
90	10.3	12.2	12.6	11.9	11.7	11.0	9.10	9.61	9.73	8.96	10.4	11.3						
95	3.62	3.70	5.23	6.73	5.76	3.98	4.15	4.00	3.32	2.98	2.89	3.56						
100	1.60	1.31	2.26	3.26	2.61	2.01	2.56	2.36	1.61	1.60	1.48	1.57						
105	1.50	1.45	1.83	2.28	2.06	1.72	2.24	2.06	1.76	1.77	1.67	1.67						
110	1.84	1.84	1.86	2.13	1.97	2.01	2.29	2.24	2.18	2.14	2.08	2.07						
115	2.26	2.27	2.30	2.32	2.38	2.43	2.70	2.65	2.63	2.58	2.54	2.49						
120	2.72	2.72	2.74	2.78	2.84	2.87	3.15	3.13	3.09	3.02	2.98	2.97						
125	3.19	3.17	3.21	3.22	3.28	3.32	3.59	3.57	3.55	3.49	3.45	3.42						
130	3.62	3.62	3.65	3.68	3.74	3.79	4.03	4.04	4.00	3.95	3.89	3.87						
135	4.07	4.06	4.08	4.13	4.19	4.24	4.47	4.46	4.45	4.37	4.33	4.31						
140	4.49	4.49	4.54	4.57	4.62	4.65	4.90	4.87	4.84	4.80	4.73	4.72						
145	4.90	4.90	4.94	4.97	5.01	5.06	5.27	5.26	5.23	5.18	5.13	5.11						
150	5.28	5.29	5.33	5.35	5.39	5.42	5.62	5.60	5.56	5.53	5.50	5.45						
155	5.64	5.64	5.68	5.70	5.74	5.77	5.92	5.92	5.88	5.84	5.81	5.79						
160	5.97	5.97	5.99	6.03	6.06	6.08	6.21	6.19	6.17	6.14	6.11	6.09						
165	6.27	6.28	6.29	6.33	6.34	6.37	6.46	6.44	6.42	6.41	6.39	6.36						
170	6.54	6.55	6.56	6.59	6.60	6.63	6.68	6.68	6.65	6.63	6.63	6.60						
175	6.74	6.74	6.74	6.78	6.78	6.82	6.83	6.81	6.82	6.80	6.80	6.78						
180	6.85	6.86	6.85	6.86	6.87	6.88	6.87	6.84	6.87	6.85	6.87	6.86						

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2019-03-16

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:9.443m [K=1.0000]
Remarks: