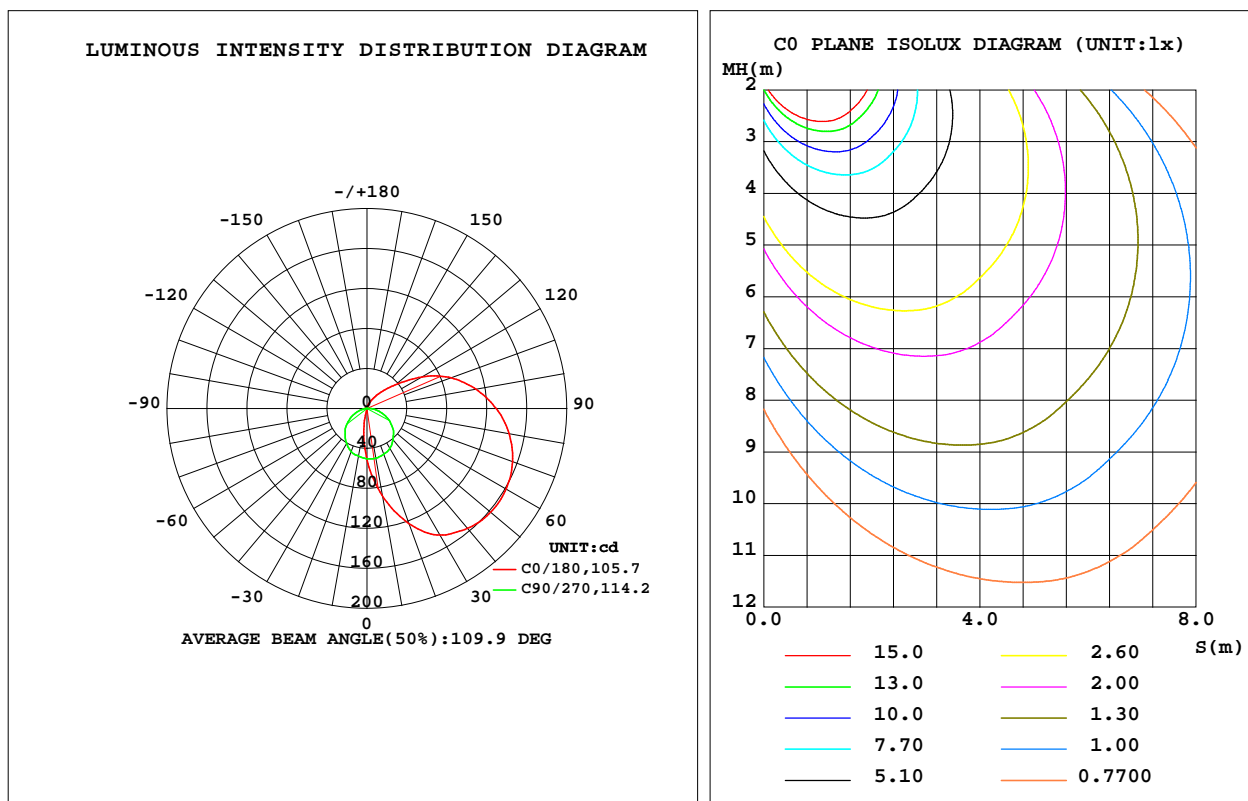


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.00V I:0.2702A P:6.484W PF:1.000 Freq:0Hz Lamp Flux:437.026x1 lm		
NAME: ALS-LG7043FDXSS1000	TYPE:	WEIGHT:
SPEC.:ALS-LG7043FDXSS1000-F7NW9X-DC	DIM.: 1000*70*43mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*70	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 67.40 lm/W			
MODEL	ALS-LG7043FDXSS1000	I _{max} (cd)	162.0	S/MH(C0/180)	2.95
NOMINAL POWER(W)	7	LOR(%)	100.0	S/MH(C90/270)	1.21
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	437.03	h UP,DN(C0-180)	17.9,52.2
NOMINAL FLUX(lm)	437.026	CIE CLASS	SEMI-D.	h UP,DN(C180-360)	5.9,24.0
LAMPS INSIDE	1	h up(%)	23.8	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	24	h down(%)	76.2	CIBSE SHR MAX	1.20



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-03-28

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

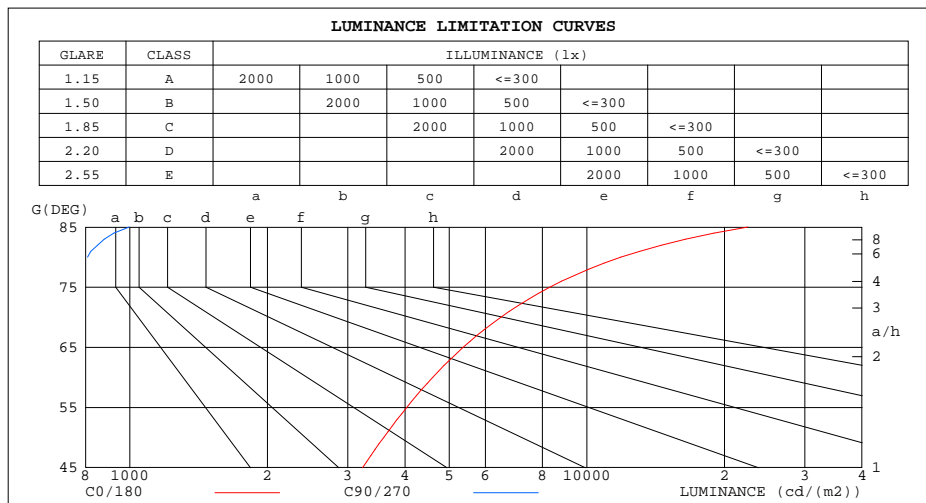
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	88.34	76.50	50.58	28.16	18.07	25.08	48.49	77.34	0- 10	4.901	4.901	1.12,1.12
20	122.3	100.6	48.89	7.501	0.1537	4.493	46.18	100.5	10- 20	14.88	19.78	4.53,4.53
30	146.3	119.3	46.11	0.6144	0.2342	1.028	40.93	118.1	20- 30	26.19	45.97	10.5,10.5
40	156.5	130.0	40.76	0.5678	0.3611	0.9085	34.23	126.6	30- 40	38.04	84.01	19.2,19.2
50	161.6	129.3	34.69	0.6547	0.5546	0.7682	27.30	124.7	40- 50	47.05	131.1	30,30
60	160.9	124.5	26.62	0.7883	0.8085	0.7748	19.16	119.0	50- 60	52.37	183.4	42,42
70	155.1	115.0	18.09	0.8618	1.069	0.9283	11.01	109.4	60- 70	53.68	237.1	54.3,54.3
80	144.3	101.5	9.823	1.136	1.336	1.108	3.912	95.56	70- 80	51.01	288.1	65.9,65.9
90	129.3	85.23	2.430	1.456	1.603	1.342	1.556	78.81	80- 90	44.99	333.1	76.2,76.2
100	111.0	67.11	1.089	1.549	1.717	1.409	0.2808	53.95	90-100	37.19	370.3	84.7,84.7
110	89.84	48.48	0.7754	1.503	1.777	1.469	0.3741	40.10	100-110	27.74	398.0	91.1,91.1
120	63.26	30.68	0.4610	1.389	1.790	1.456	0.4742	25.10	110-120	19.31	417.3	95.5,95.5
130	37.00	15.22	0.4674	1.249	1.790	1.329	0.5277	12.23	120-130	10.76	428.1	98,98
140	20.97	7.930	0.5076	1.149	1.548	1.316	0.5678	6.040	130-140	5.241	433.3	99.2,99.2
150	10.48	3.415	0.5940	1.142	1.289	1.302	0.6213	2.599	140-150	2.381	435.7	99.7,99.7
160	3.819	1.260	0.6873	1.122	1.075	1.209	0.7348	1.190	150-160	0.9212	436.6	99.9,99.9
170	1.017	0.6279	0.8010	1.029	0.8614	1.089	0.8350	0.6480	160-170	0.3092	436.9	100,100
180	0.7281	0.8283	0.8750	0.8550	0.7748	0.8349	0.8817	0.8416	170-180	0.0783	437.0	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2021-03-28

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.950m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:24.00V I:0.2702A P:6.484W PF:1.000 Freq:0Hz Lamp Flux:437.026x1 lm		
NAME: ALS-LG7043FDXSS1000	TYPE:	WEIGHT:
SPEC.:ALS-LG7043FDXSS1000-F7NW9X-DC	DIM.: 1000*70*43mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*70	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	22512	996
80	11872	808
75	8296	765
70	6479	756
65	5361	757
60	4598	761
55	4034	765
50	3592	771
45	3231	759

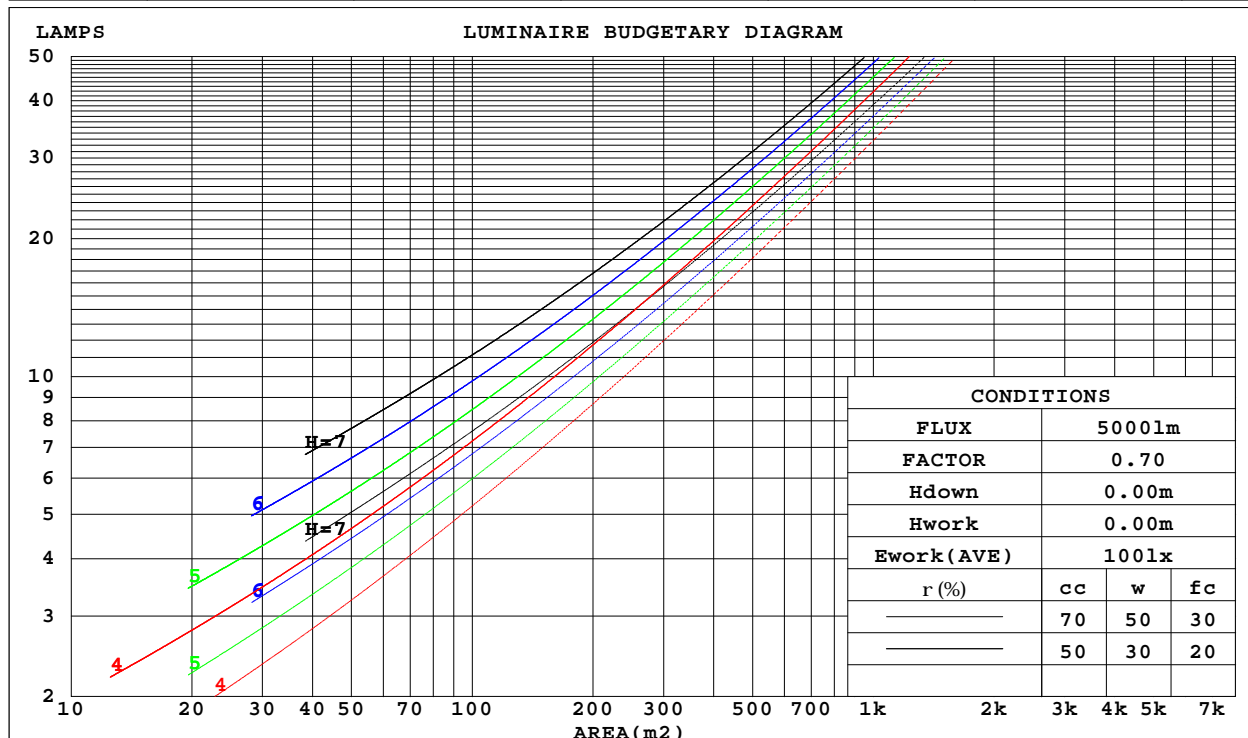
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2021-03-28

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.950m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.00V I:0.2702A P:6.484W PF:1.000 Freq:0Hz Lamp Flux:437.026x1 lm		
NAME: ALS-LG7043FDXSS1000	TYPE:	WEIGHT:
SPEC.:ALS-LG7043FDXSS1000-F7NW9X-DC	DIM.: 1000*70*43mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*70	Shielding Angle:

rcc	80%			70%			50%			30%			10%			0
r _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2021-03-28

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.950m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:24.00V I:0.2702A P:6.484W PF:1.000 Freq:0Hz Lamp Flux:437.026x1 lm		
NAME: ALS-LG7043FDXSS1000	TYPE:	WEIGHT:
SPEC.:ALS-LG7043FDXSS1000-F7NW9X-DC	DIM.: 1000*70*43mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*70	Shielding Angle:

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Wall Exitance Coefficients(WEC)															
0.0																
1.0	.433	.246	.078	.418	.239	.076	.391	.224	.072	.366	.211	.068	.343	.199	.064	
2.0	.364	.200	.061	.351	.193	.060	.326	.181	.056	.303	.170	.053	.282	.159	.050	
3.0	.318	.169	.051	.306	.164	.049	.283	.154	.047	.263	.144	.044	.243	.135	.042	
4.0	.283	.147	.043	.272	.142	.042	.252	.133	.040	.232	.125	.038	.215	.117	.036	
5.0	.255	.130	.038	.245	.126	.037	.226	.118	.035	.209	.110	.033	.193	.103	.031	
6.0	.232	.116	.033	.223	.113	.032	.206	.106	.031	.190	.099	.029	.175	.092	.027	
7.0	.213	.105	.030	.205	.102	.029	.189	.095	.028	.174	.089	.026	.160	.083	.024	
8.0	.196	.096	.027	.189	.093	.026	.174	.087	.025	.161	.082	.024	.148	.076	.022	
9.0	.182	.088	.025	.175	.085	.024	.162	.080	.023	.150	.075	.021	.138	.070	.020	
10.0	.170	.082	.023	.164	.079	.022	.151	.074	.021	.140	.069	.020	.129	.065	.019	

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients(CCEC)															
0.0	.372	.372	.372	.318	.318	.318	.217	.217	.217	.125	.125	.125	.040	.040	.040	
1.0	.371	.338	.307	.318	.290	.264	.217	.199	.183	.125	.115	.106	.040	.037	.034	
2.0	.366	.315	.273	.313	.272	.236	.215	.188	.165	.124	.109	.097	.040	.035	.031	
3.0	.359	.299	.252	.307	.258	.219	.211	.179	.153	.122	.105	.090	.039	.034	.030	
4.0	.351	.287	.239	.301	.248	.208	.207	.173	.146	.120	.101	.086	.039	.033	.028	
5.0	.343	.278	.230	.295	.240	.200	.203	.168	.141	.118	.099	.084	.038	.032	.028	
6.0	.335	.270	.223	.288	.234	.195	.199	.164	.138	.115	.096	.082	.037	.031	.027	
7.0	.328	.264	.219	.282	.229	.191	.195	.160	.135	.113	.094	.080	.037	.031	.027	
8.0	.321	.258	.215	.276	.224	.188	.191	.157	.133	.111	.093	.079	.036	.030	.026	
9.0	.315	.254	.212	.271	.220	.185	.188	.155	.131	.109	.091	.078	.035	.030	.026	
10.0	.309	.249	.210	.266	.217	.183	.185	.152	.130	.108	.090	.078	.035	.030	.026	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2021-03-28

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.950m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:24.00V I:0.2702A P:6.484W PF:1.000 Freq:0Hz Lamp Flux:437.026x1 lm											
NAME: ALS-LG7043FDXSS1000						TYPE:		WEIGHT:			
SPEC.:ALS-LG7043FDXSS1000-F7NW9X-DC						DIM.: 1000*70*43mm		SERIAL No.:			
MFR.: COLORS						SUR.:1000*70		Shielding 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	22.4	23.8	23.0	24.4	25.1	17.4	18.8	18.0	19.4	20.1	
	3H	25.6	26.8	26.2	27.5	28.2	18.9	20.2	19.5	20.8	21.5
	4H	27.3	28.5	28.0	29.2	29.9	19.6	20.8	20.2	21.4	22.2
	6H	29.3	30.4	29.9	31.1	31.9	20.1	21.3	20.8	21.9	22.7
	8H	30.3	31.5	31.0	32.1	32.9	20.3	21.4	21.0	22.1	22.9
	12H	31.6	32.6	32.2	33.3	34.1	20.5	21.6	21.2	22.2	23.0
4H	2H	23.0	24.2	23.6	24.8	25.6	19.9	21.1	20.6	21.8	22.5
	3H	26.4	27.4	27.0	28.1	28.9	21.9	22.9	22.5	23.6	24.4
	4H	28.3	29.3	29.0	30.0	30.8	22.8	23.8	23.5	24.5	25.3
	6H	30.4	31.3	31.2	32.1	32.9	23.6	24.4	24.3	25.2	26.0
	8H	31.6	32.5	32.4	33.2	34.1	23.9	24.7	24.6	25.4	26.3
	12H	33.0	33.8	33.7	34.5	35.4	24.1	24.9	24.9	25.6	26.5
8H	4H	28.7	29.5	29.4	30.2	31.1	24.7	25.6	25.5	26.3	27.2
	6H	31.1	31.8	31.9	32.6	33.5	26.1	26.8	26.8	27.5	28.4
	8H	32.5	33.1	33.3	33.9	34.8	26.7	27.3	27.4	28.1	29.0
	12H	34.1	34.7	34.9	35.5	36.4	27.2	27.7	28.0	28.5	29.5
12H	4H	28.7	29.5	29.4	30.2	31.1	25.3	26.1	26.1	26.8	27.7
	6H	31.2	31.9	32.0	32.7	33.6	27.0	27.6	27.7	28.4	29.3
	8H	32.7	33.3	33.5	34.1	35.1	27.8	28.4	28.6	29.2	30.1
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1					
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.3					
2.0H	+ 0.2 / - 0.3					+ 0.3 / - 0.5					

CIE Pub.117, 437.0 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.9)

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-03-28

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:24.00V I:0.2702A P:6.484W PF:1.000 Freq:0Hz Lamp Flux:437.026x1 lm		
NAME: ALS-LG7043FDXSS1000	TYPE:	WEIGHT:
SPEC.:ALS-LG7043FDXSS1000-F7NW9X-DC	DIM.: 1000*70*43mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*70	Shielding Angle:

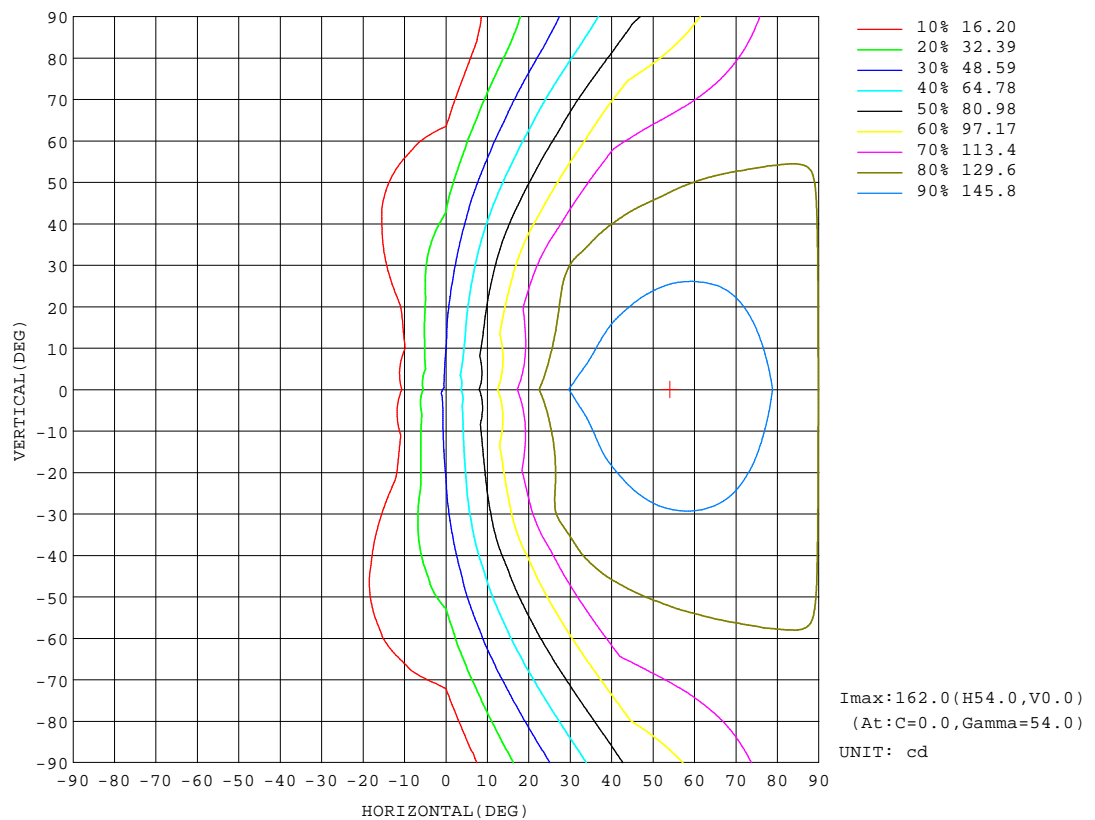
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	42	29	21	41	28	21	39	27	21	14
0.80	51	37	28	49	36	28	46	34	27	19
1.00	58	44	35	56	43	34	52	44	33	24
1.25	65	51	42	63	50	41	58	47	39	29
1.50	71	57	47	68	55	46	62	52	44	32
2.00	78	66	56	75	64	55	69	59	52	39
2.50	83	72	63	80	69	61	73	64	57	43
3.00	87	77	68	83	74	66	76	68	61	46
4.00	93	83	76	88	80	73	80	73	68	51
5.00	96	88	81	91	84	78	83	77	72	55
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-03-28

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:24.00V I:0.2702A P:6.484W PF:1.000 Freq:0Hz Lamp Flux:437.026x1 lm		
NAME: ALS-LG7043FDXSS1000	TYPE:	WEIGHT:
SPEC.:ALS-LG7043FDXSS1000-F7NW9X-DC	DIM.: 1000*70*43mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*70	Shielding Angle:



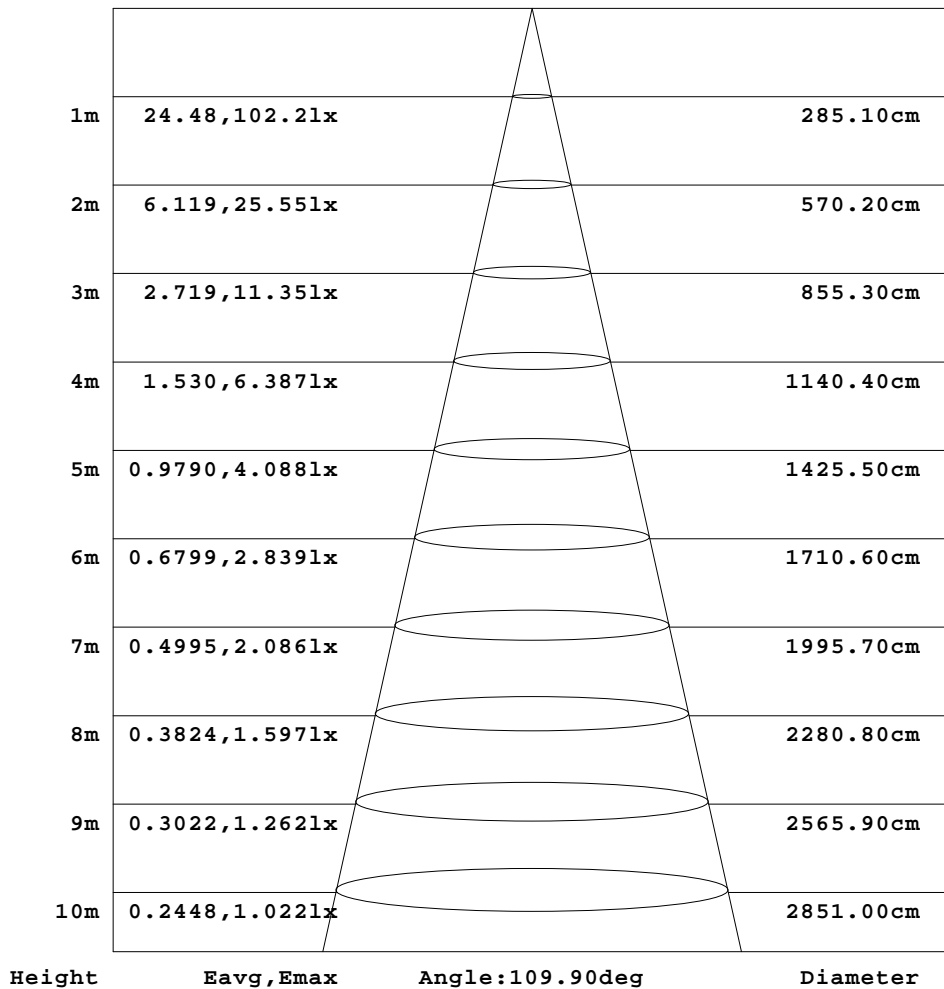
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-03-28

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

AAI Figure

Test:U:24.00V I:0.2702A P:6.484W PF:1.000 Freq:0Hz Lamp Flux:437.026x1 lm		
NAME: ALS-LG7043FDXSS1000	TYPE:	WEIGHT:
SPEC.:ALS-LG7043FDXSS1000-F7NW9X-DC	DIM.: 1000*70*43mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*70	Shielding Angle:

Flux out:156.8 lm



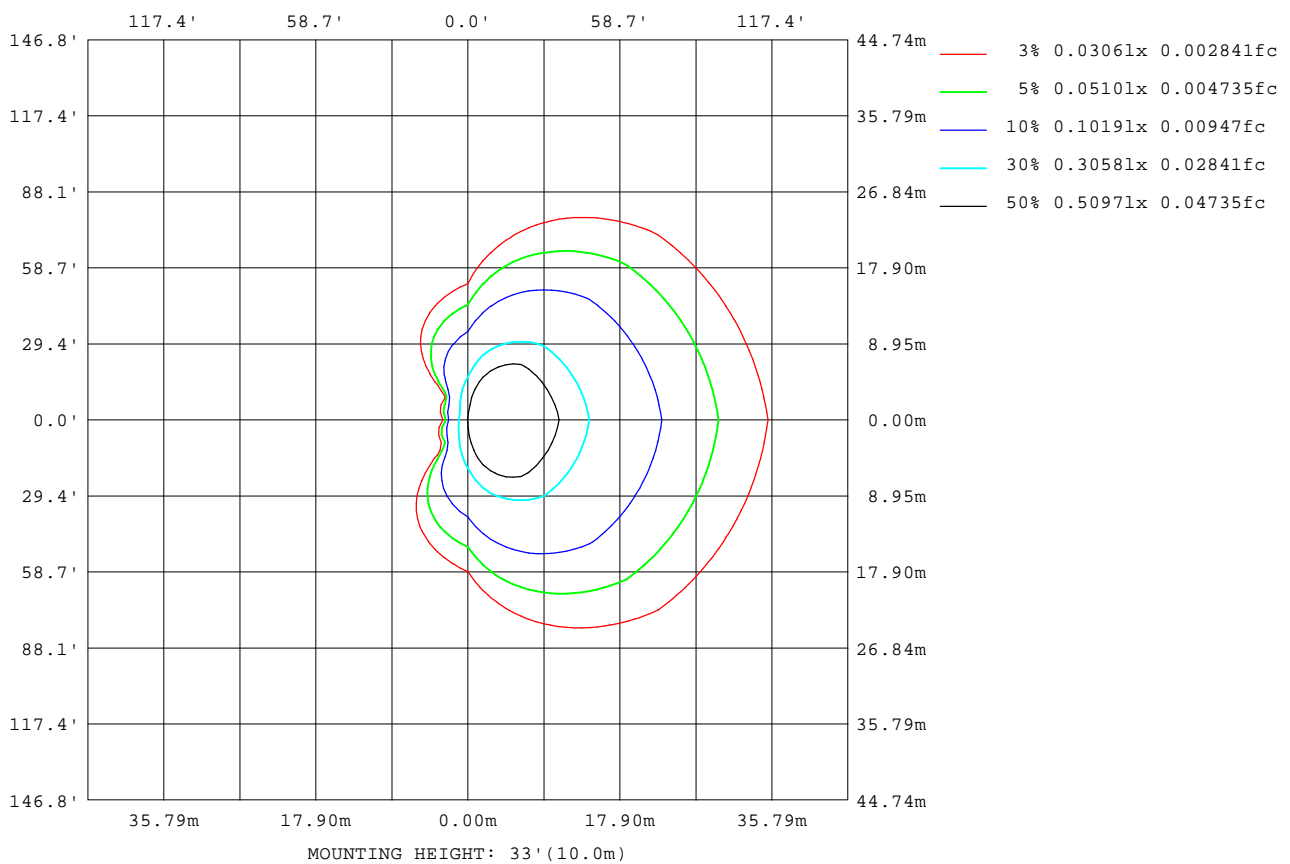
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: JYH
 Test Date: 2021-03-28

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 10.950m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

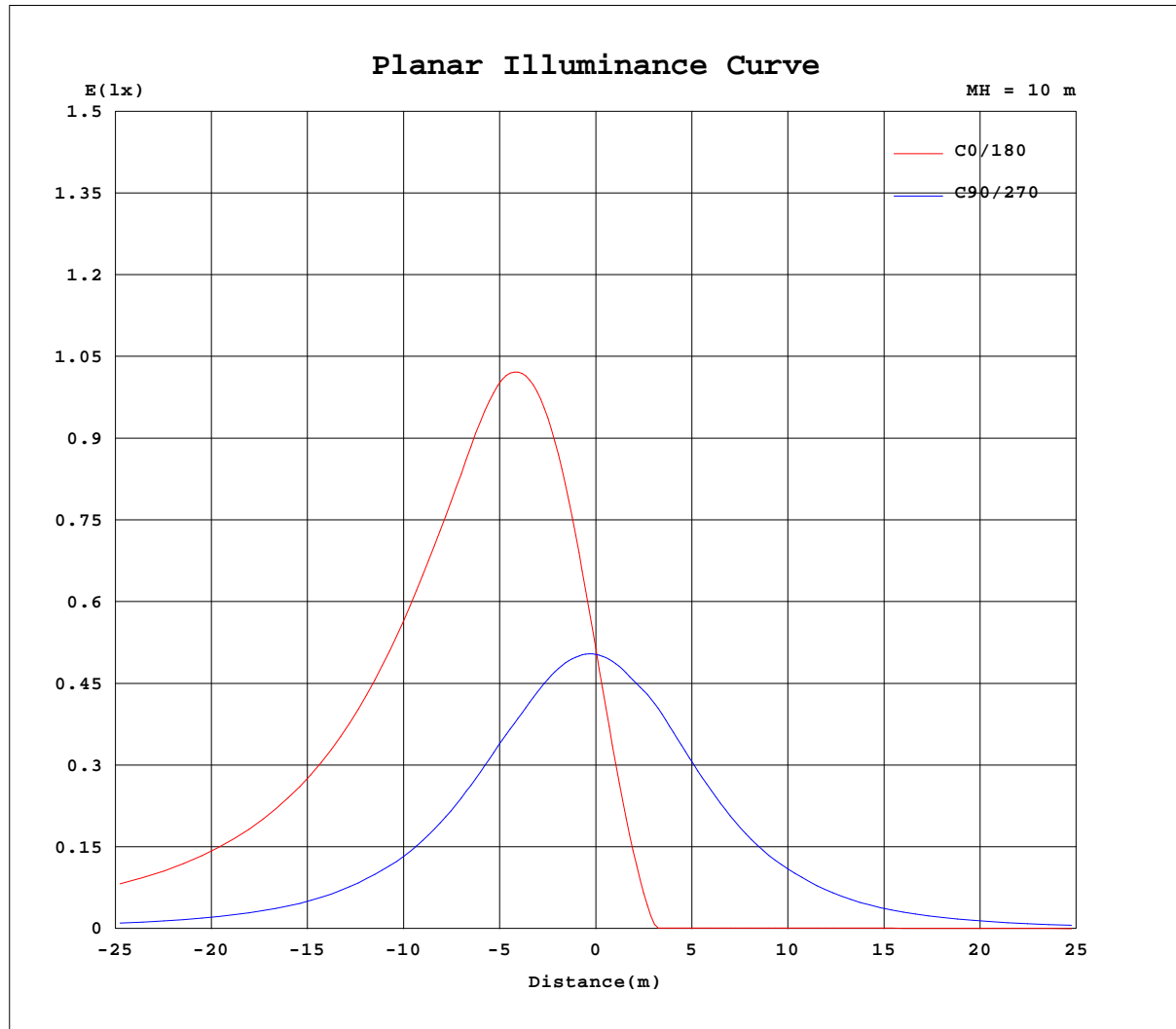
Test:U:24.00V I:0.2702A P:6.484W PF:1.000 Freq:0Hz Lamp Flux:437.026x1 lm		
NAME: ALS-LG7043FDXSS1000	TYPE:	WEIGHT:
SPEC.:ALS-LG7043FDXSS1000-F7NW9X-DC	DIM.: 1000*70*43mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*70	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: JYH
 Test Date: 2021-03-28

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 10.950m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JYH
Test Date: 2021-03-28

deg Range: 0 - 180DEG
deg Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 10.950m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.2702A P:6.484W PF:1.000 Freq:0Hz Lamp Flux:437.026x1 lm		
NAME: ALS-LG7043FDXSS1000	TYPE:	WEIGHT:
SPEC.:ALS-LG7043FDXSS1000-F7NW9X-DC	DIM.: 1000*70*43mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*70	Shielding Angle:

Table--1

UNIT: cd

C(DEG) g (DEG)	0	45	90	135	180	225	270	315										
0	51.4	50.1	50.4	52.5	51.4	50.1	50.4	52.5										
5	69.8	63.4	50.7	40.0	34.0	37.3	49.6	65.0										
10	88.3	76.5	50.6	28.2	18.1	25.1	48.5	77.3										
15	106	89.1	50.0	17.2	4.84	14.0	47.7	89.0										
20	122	101	48.9	7.50	0.15	4.49	46.2	100										
25	136	111	47.9	0.82	0.19	0.81	43.8	110										
30	146	119	46.1	0.61	0.23	1.03	40.9	118										
35	152	126	43.7	0.57	0.29	1.00	37.7	124										
40	157	130	40.8	0.57	0.36	0.91	34.2	127										
45	160	130	37.6	0.59	0.45	0.81	31.2	126										
50	162	129	34.7	0.65	0.55	0.77	27.3	125										
55	162	128	30.7	0.72	0.68	0.75	23.1	122										
60	161	124	26.6	0.79	0.81	0.77	19.2	119										
65	159	120	22.4	0.83	0.94	0.83	14.8	114										
70	155	115	18.1	0.86	1.07	0.93	11.0	109										
75	150	109	13.9	0.96	1.20	1.00	7.24	103										
80	144	102	9.82	1.14	1.34	1.11	3.91	95.6										
85	137	93.6	6.08	1.29	1.46	1.21	1.64	87.3										
90	129	85.2	2.43	1.46	1.60	1.34	1.56	78.8										
95	121	76.0	1.24	1.51	1.66	1.38	1.58	69.8										
100	111	67.1	1.09	1.55	1.72	1.41	0.28	54.0										
105	101	57.9	0.99	1.54	1.75	1.44	0.34	39.6										
110	89.8	48.5	0.78	1.50	1.78	1.47	0.37	40.1										
115	77.5	39.6	0.54	1.48	1.80	1.49	0.43	32.4										
120	63.3	30.7	0.46	1.39	1.79	1.46	0.47	25.1										
125	48.9	22.8	0.45	1.26	1.79	1.47	0.50	17.6										
130	37.0	15.2	0.47	1.25	1.79	1.33	0.53	12.2										
135	28.1	11.3	0.51	1.17	1.68	1.32	0.55	8.69										
140	21.0	7.93	0.51	1.15	1.55	1.32	0.57	6.04										
145	15.2	5.32	0.53	1.14	1.41	1.31	0.59	4.00										
150	10.5	3.41	0.59	1.14	1.29	1.30	0.62	2.60										
155	6.66	1.97	0.62	1.14	1.18	1.28	0.69	1.65										
160	3.82	1.26	0.69	1.12	1.07	1.21	0.73	1.19										
165	2.01	0.80	0.72	1.06	0.98	1.16	0.79	0.78										
170	1.02	0.63	0.80	1.03	0.86	1.09	0.83	0.65										
175	0.70	0.66	0.82	0.94	0.77	0.98	0.88	0.63										
180	0.73	0.83	0.88	0.85	0.77	0.83	0.88	0.84										

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-03-28

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks: