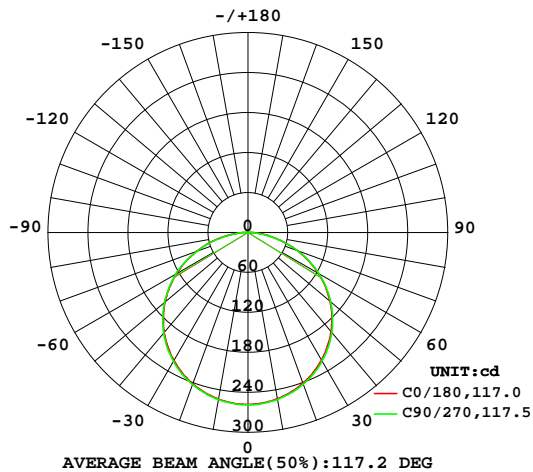


LUMINAIRE PHOTOMETRIC TEST REPORT

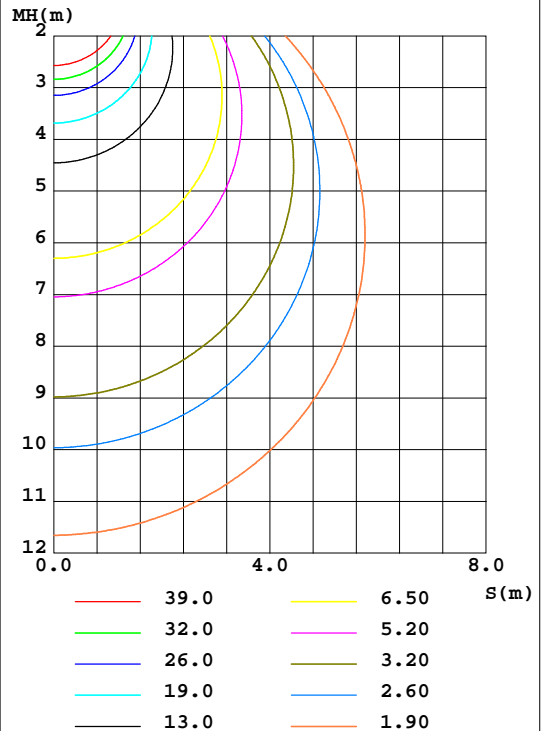
Test:U:24.00V I:0.5600A P:13.40W PF:0 Freq:0Hz Lamp Flux:785.63x1 lm		
NAME: ALS-LE2711FDXSS1000	TYPE:	WEIGHT:
SPEC.:ALS-LE2711FDXSS1000-F16NW9X-BC	DIM.: 1000*27*11	SERIAL No.:
MFR.: Colors	SUR.:1000*27	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 58.63 lm/W			
MODEL	ALS-LE2711FDXSS1000	I _{max} (cd)	258.6	S/MH(C0/180)	1.27
NOMINAL POWER(W)	13.4	LOR(%)	100.0	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	785.63	h UP,DN(C0-180)	0.5,49.2
NOMINAL FLUX(lm)	785.63	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.4,50.0
LAMPS INSIDE	1	h up(%)	0.8	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	24	h down(%)	99.2	CIBSE SHR MAX	1.35

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:COLORS
Test Date:2019-04-19

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

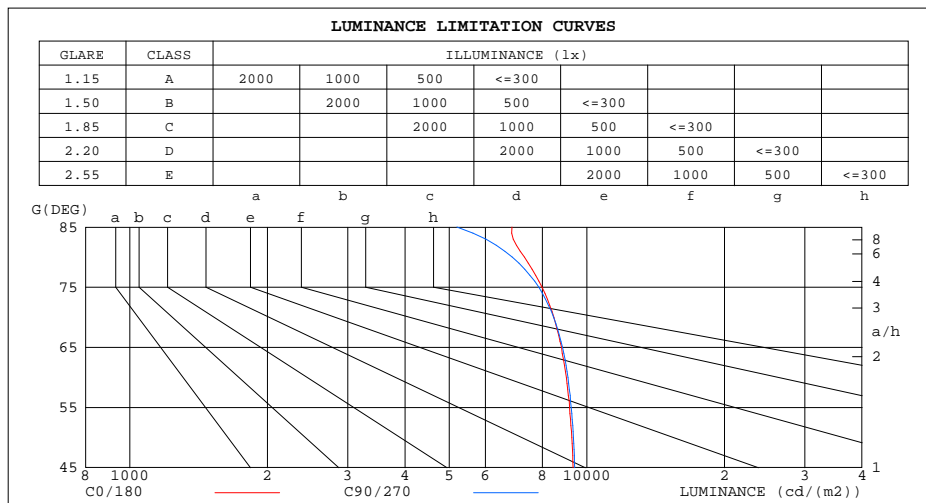
g	C0	C90	C180	C270					g	F zone	F total	%lum,lamp
10	253.4	254.5	253.9	254.7					0- 10	24.46	24.46	3.11,3.11
20	240.9	242.5	241.8	243.0					10- 20	70.33	94.78	12.1,12.1
30	220.9	222.7	222.1	223.5					20- 30	107.5	202.3	25.7,25.7
40	194.1	195.9	195.7	196.9					30- 40	131.3	333.6	42.5,42.5
50	160.8	162.2	162.5	163.7					40- 50	138.6	472.2	60.1,60.1
60	121.8	122.7	124.0	125.5					50- 60	128.2	600.4	76.4,76.4
70	78.21	78.13	81.25	80.28					60- 70	100.8	701.2	89.2,89.2
80	34.26	32.23	37.36	35.16					70- 80	60.01	761.2	96.9,96.9
90	6.281	0.9594	4.047	2.267					80- 90	18.02	779.2	99.2,99.2
100	2.090	0.3699	0.4418	0.3540					90-100	1.711	780.9	99.4,99.4
110	0.6111	0.5547	0.5673	0.5326					100-110	0.6580	781.6	99.5,99.5
120	0.7301	0.7521	0.7491	0.7300					110-120	0.6404	782.2	99.6,99.6
130	0.9393	0.9371	0.9341	0.9396					120-130	0.7476	782.9	99.7,99.7
140	1.106	1.106	1.125	1.103					130-140	0.7922	783.7	99.8,99.8
150	1.291	1.254	1.291	1.247					140-150	0.7493	784.5	99.9,99.9
160	1.387	1.363	1.413	1.345					150-160	0.6151	785.1	99.9,99.9
170	1.401	1.423	1.445	1.426					160-170	0.3962	785.5	100,100
180	1.445	1.445	1.451	1.445					170-180	0.1371	785.6	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:COLORS
 Test Date:2019-04-19

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:24.00V I:0.5600A P:13.40W PF:0 Freq:0Hz Lamp Flux:785.63x1 lm		
NAME: ALS-LE2711FDXSS1000	TYPE:	WEIGHT:
SPEC.:ALS-LE2711FDXSS1000-F16NW9X-BC	DIM.: 1000*27*11	SERIAL No.:
MFR.: Colors	SUR.:1000*27	Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	6863	5200
80	7307	6875
75	7980	7850
70	8469	8460
65	8802	8842
60	9019	9090
55	9166	9246
50	9267	9346
45	9334	9411

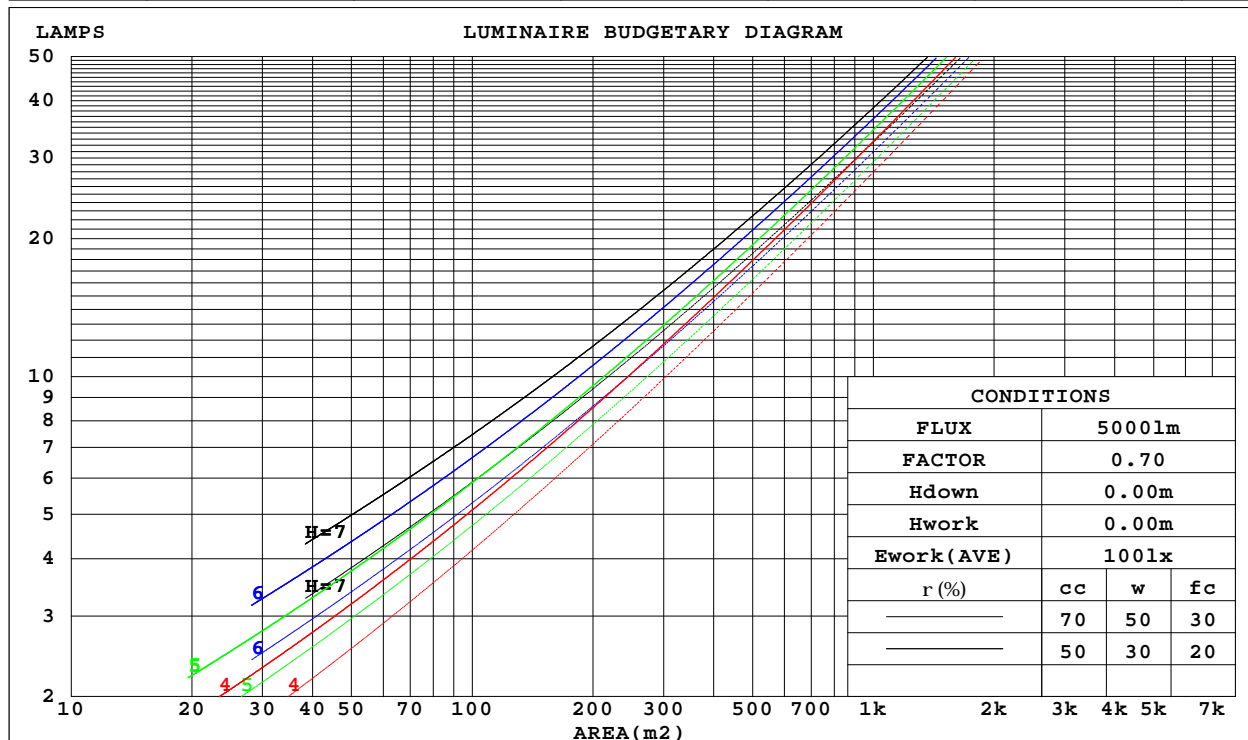
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:COLORS
 Test Date:2019-04-19

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.00V I:0.5600A P:13.40W PF:0 Freq:0Hz Lamp Flux:785.63x1 lm		
NAME: ALS-LE2711FDXSS1000	TYPE:	WEIGHT:
SPEC.:ALS-LE2711FDXSS1000-F16NW9X-BC	DIM.: 1000*27*11	SERIAL No.:
MFR.: Colors	SUR.:1000*27	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: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2019-04-19

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:24.00V I:0.5600A P:13.40W PF:0 Freq:0Hz Lamp Flux:785.63x1 lm		
NAME: ALS-LE2711FDXSS1000	TYPE:	WEIGHT:
SPEC.:ALS-LE2711FDXSS1000-F16NW9X-BC	DIM.: 1000*27*11	SERIAL No.:
MFR.: Colors	SUR.:1000*27	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	.320	.182	.058	.312	.178	.057	.299	.171	.055	.286	.165	.053	.274	.159	.051	
2.0	.299	.164	.050	.292	.161	.050	.280	.156	.048	.269	.151	.047	.259	.146	.046	
3.0	.275	.147	.044	.270	.144	.043	.259	.140	.043	.249	.136	.042	.240	.133	.041	
4.0	.253	.132	.039	.248	.130	.038	.239	.127	.038	.230	.123	.037	.222	.120	.037	
5.0	.234	.119	.035	.229	.118	.034	.221	.115	.034	.213	.112	.033	.205	.110	.033	
6.0	.216	.108	.031	.212	.107	.031	.205	.105	.031	.198	.103	.030	.191	.101	.030	
7.0	.201	.099	.028	.198	.098	.028	.191	.096	.028	.184	.094	.027	.178	.093	.027	
8.0	.188	.092	.026	.184	.091	.026	.178	.089	.025	.173	.087	.025	.167	.086	.025	
9.0	.176	.085	.024	.173	.084	.024	.167	.083	.023	.162	.081	.023	.157	.080	.023	
10.0	.165	.079	.022	.162	.078	.022	.157	.077	.022	.153	.076	.022	.148	.075	.021	

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	.197	.197	.197	.168	.168	.168	.115	.115	.115	.066	.066	.066	.021	.021	.021	
1.0	.187	.162	.140	.160	.139	.120	.110	.096	.083	.063	.055	.048	.020	.018	.016	
2.0	.180	.138	.103	.154	.119	.089	.105	.082	.062	.061	.048	.037	.019	.015	.012	
3.0	.172	.121	.080	.147	.104	.069	.101	.072	.049	.058	.042	.029	.019	.014	.009	
4.0	.164	.107	.064	.141	.093	.056	.097	.065	.039	.056	.038	.023	.018	.012	.008	
5.0	.157	.097	.053	.135	.084	.046	.093	.059	.033	.054	.034	.019	.017	.011	.006	
6.0	.150	.089	.045	.129	.077	.039	.089	.054	.028	.051	.032	.017	.017	.010	.005	
7.0	.143	.082	.039	.123	.071	.034	.085	.050	.024	.049	.029	.014	.016	.010	.005	
8.0	.136	.076	.035	.117	.066	.030	.081	.046	.022	.047	.027	.013	.015	.009	.004	
9.0	.130	.071	.031	.112	.062	.027	.078	.043	.020	.045	.026	.012	.015	.008	.004	
10.0	.124	.067	.029	.107	.058	.025	.074	.041	.018	.043	.024	.011	.014	.008	.004	

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2019-04-19

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:24.00V I:0.5600A P:13.40W PF:0 Freq:0Hz Lamp Flux:785.63x1 lm												
NAME: ALS-LE2711FDXSS1000					TYPE:			WEIGHT:				
SPEC.:ALS-LE2711FDXSS1000-F16NW9X-BC					DIM.: 1000*27*11			SERIAL No.:				
MFR.: Colors					SUR.:1000*27			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	2H	21.4	22.9	21.7	23.2	23.4	21.4	23.0	21.7	23.2	23.4	
	3H	23.0	24.4	23.3	24.7	24.9	23.0	24.5	23.3	24.7	25.0	
	4H	23.7	25.0	24.0	25.3	25.6	23.7	25.0	24.0	25.3	25.6	
	6H	24.1	25.4	24.5	25.7	26.0	24.1	25.4	24.4	25.7	26.0	
	8H	24.3	25.5	24.6	25.8	26.1	24.2	25.5	24.6	25.8	26.1	
	12H	24.4	25.6	24.8	25.9	26.2	24.3	25.5	24.7	25.8	26.1	
	4H	2H	22.0	23.4	22.4	23.7	23.9	22.1	23.4	22.4	23.7	24.0
		3H	23.8	25.0	24.2	25.3	25.7	23.8	25.0	24.2	25.3	25.7
		4H	24.6	25.7	25.0	26.0	26.4	24.6	25.7	25.0	26.0	26.4
		6H	25.2	26.2	25.6	26.5	26.9	25.2	26.1	25.6	26.5	26.9
		8H	25.4	26.3	25.8	26.7	27.1	25.3	26.2	25.8	26.6	27.0
		12H	25.6	26.4	26.0	26.8	27.2	25.4	26.3	25.9	26.7	27.1
8H	4H	24.9	25.8	25.3	26.2	26.6	24.9	25.8	25.3	26.2	26.6	
	6H	25.6	26.4	26.1	26.8	27.3	25.6	26.3	26.0	26.8	27.2	
	8H	25.9	26.6	26.4	27.0	27.5	25.9	26.5	26.3	27.0	27.4	
	12H	26.2	26.7	26.7	27.2	27.7	26.0	26.6	26.5	27.1	27.6	
12H	4H	24.9	25.7	25.3	26.1	26.6	24.9	25.7	25.3	26.1	26.5	
	6H	25.7	26.4	26.2	26.8	27.3	25.7	26.3	26.1	26.8	27.2	
	8H	26.0	26.6	26.5	27.1	27.6	26.0	26.5	26.4	27.0	27.5	
Variations with the observer position at spacings:												
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2						
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3						
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3						

CIE Pub.117, 785.6 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.8)

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2019-04-19

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:24.00V I:0.5600A P:13.40W PF:0 Freq:0Hz Lamp Flux:785.63x1 lm		
NAME: ALS-LE2711FDXSS1000	TYPE:	WEIGHT:
SPEC.:ALS-LE2711FDXSS1000-F16NW9X-BC	DIM.: 1000*27*11	SERIAL No.:
MFR.: Colors	SUR.:1000*27	Shielding Angle:

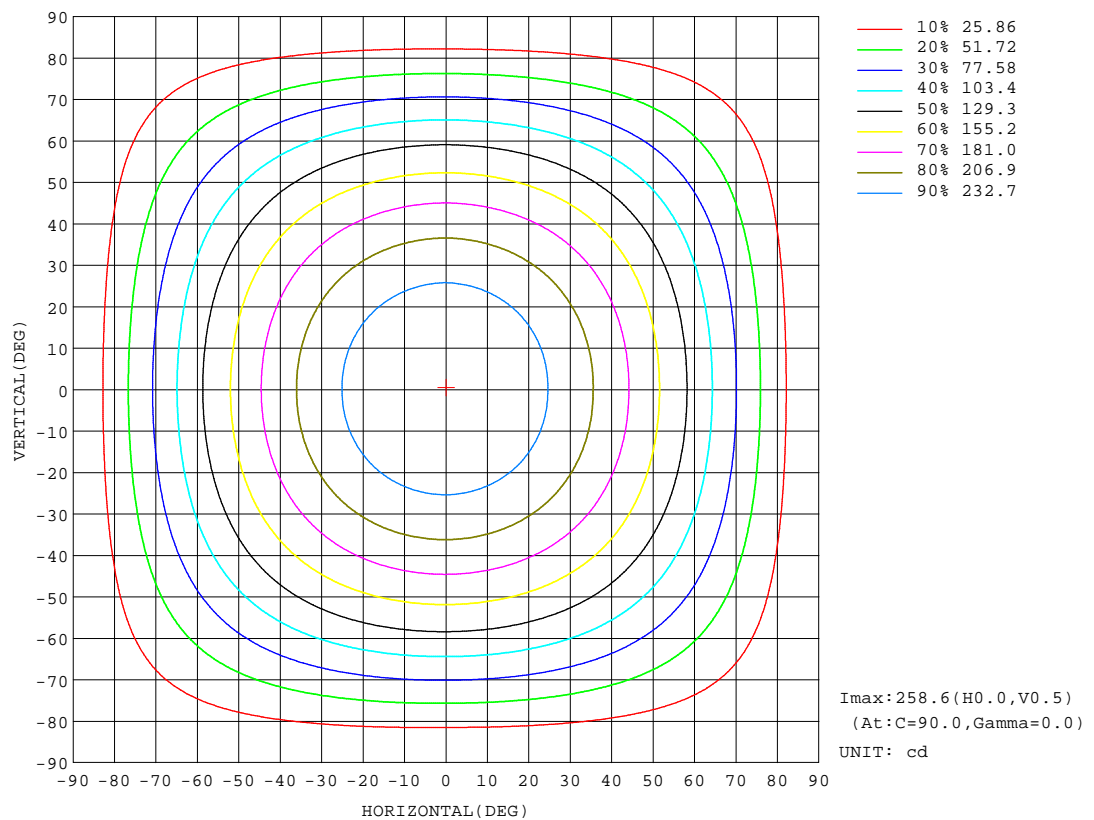
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	56	44	37	56	44	37	54	44	37	31
0.80	66	54	47	65	54	47	63	53	46	39
1.00	75	63	56	73	63	56	71	64	55	48
1.25	82	71	64	80	70	63	78	69	62	55
1.50	87	77	69	85	76	69	82	74	68	60
2.00	94	85	78	92	84	78	88	81	76	68
2.50	98	90	84	96	88	83	92	86	81	72
3.00	101	94	89	99	93	87	95	90	85	76
4.00	105	100	95	103	98	93	99	94	91	81
5.00	108	103	99	105	101	97	101	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: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:COLORS
 Test Date:2019-04-19

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:24.00V I:0.5600A P:13.40W PF:0 Freq:0Hz Lamp Flux:785.63x1 lm		
NAME: ALS-LE2711FDXSS1000	TYPE:	WEIGHT:
SPEC.:ALS-LE2711FDXSS1000-F16NW9X-BC	DIM.: 1000*27*11	SERIAL No.:
MFR.: Colors	SUR.:1000*27	Shielding Angle:



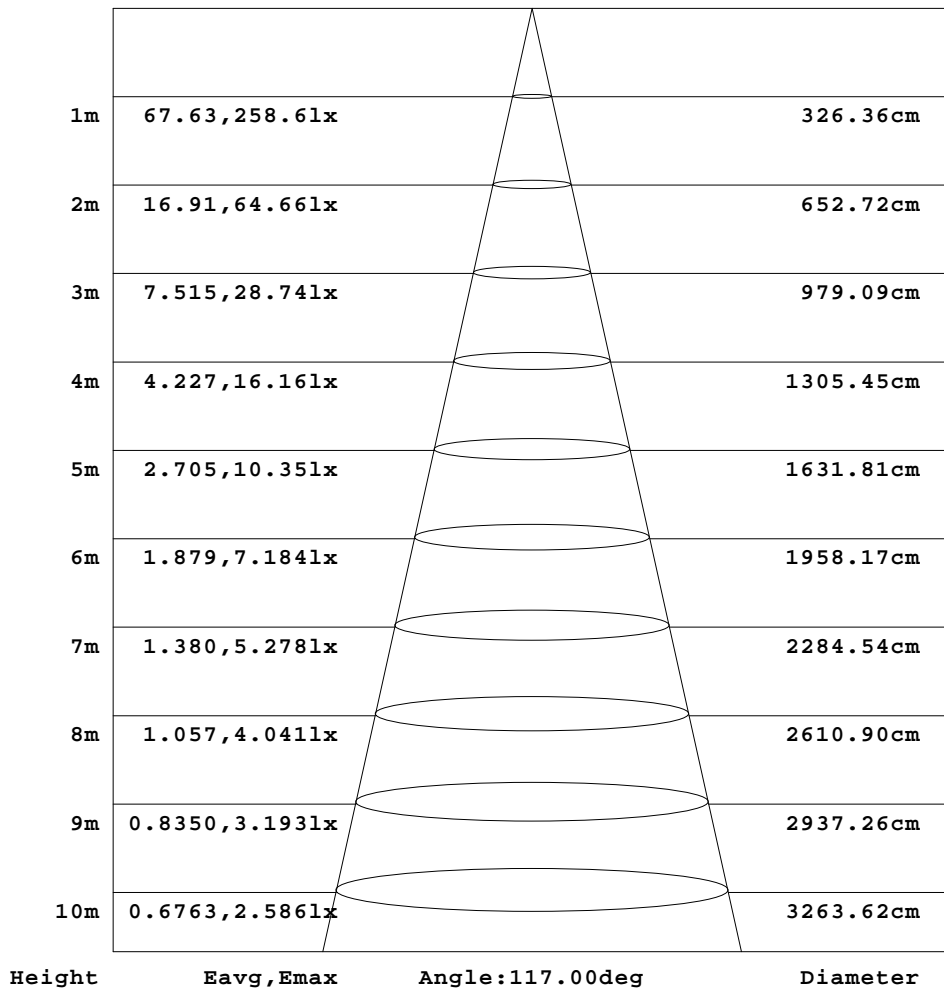
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2019-04-19

deg Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks:

AAI Figure

Test:U:24.00V I:0.5600A P:13.40W PF:0 Freq:0Hz Lamp Flux:785.63x1 lm		
NAME: ALS-LE2711FDXSS1000	TYPE:	WEIGHT:
SPEC.:ALS-LE2711FDXSS1000-F16NW9X-BC	DIM.: 1000*27*11	SERIAL No.:
MFR.: Colors	SUR.:1000*27	Shielding Angle:

Flux out:588.5 lm



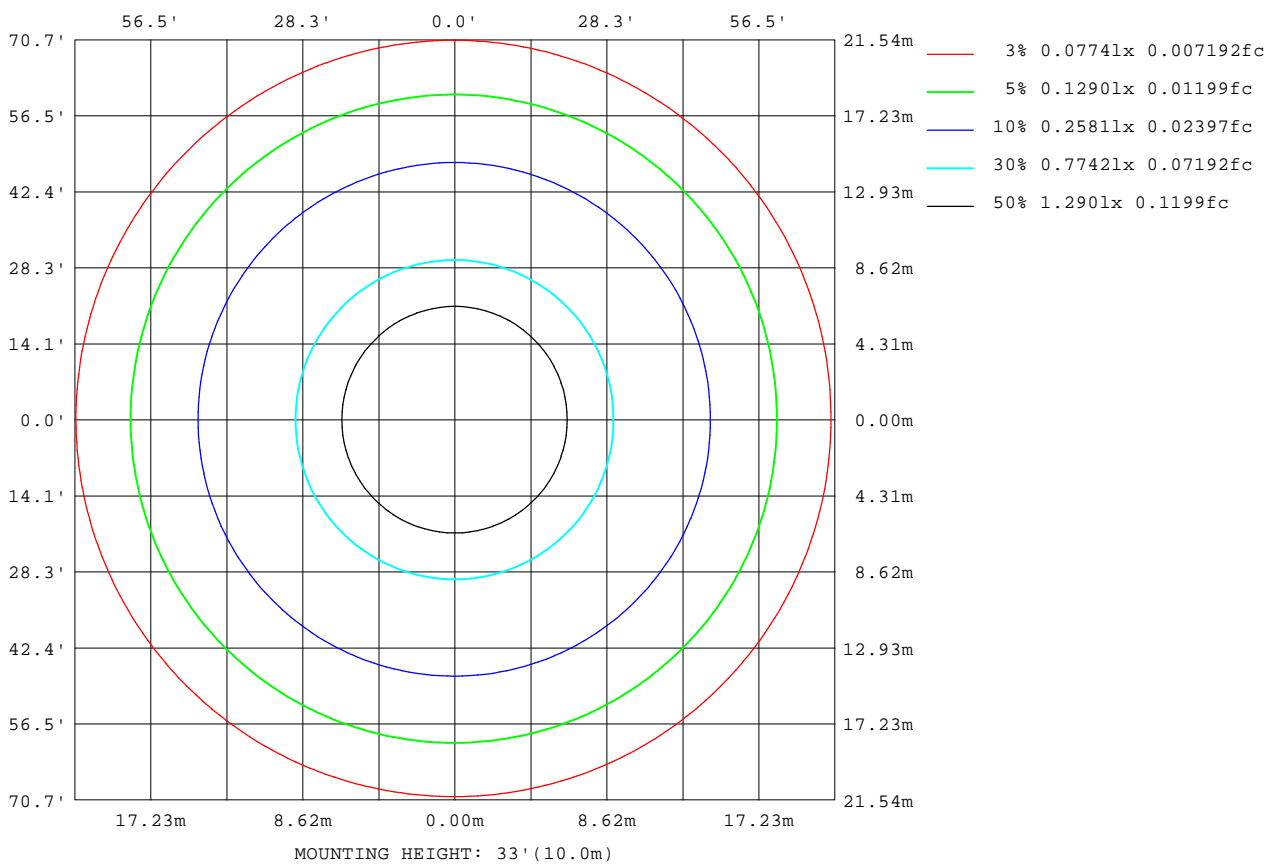
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2019-04-19

g Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:24.00V I:0.5600A P:13.40W PF:0 Freq:0Hz Lamp Flux:785.63x1 lm		
NAME: ALS-LE2711FDXSS1000	TYPE:	WEIGHT:
SPEC.:ALS-LE2711FDXSS1000-F16NW9X-BC	DIM.: 1000*27*11	SERIAL No.:
MFR.: Colors	SUR.:1000*27	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:COLORS
 Test Date:2019-04-19

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:24.00V I:0.5600A P:13.40W PF:0 Freq:0Hz Lamp Flux:785.63x1 lm		
NAME: ALS-LE2711FDXSS1000	TYPE:	WEIGHT:
SPEC.:ALS-LE2711FDXSS1000-F16NW9X-BC	DIM.: 1000*27*11	SERIAL No.:
MFR.: Colors	SUR.:1000*27	Shielding Angle:

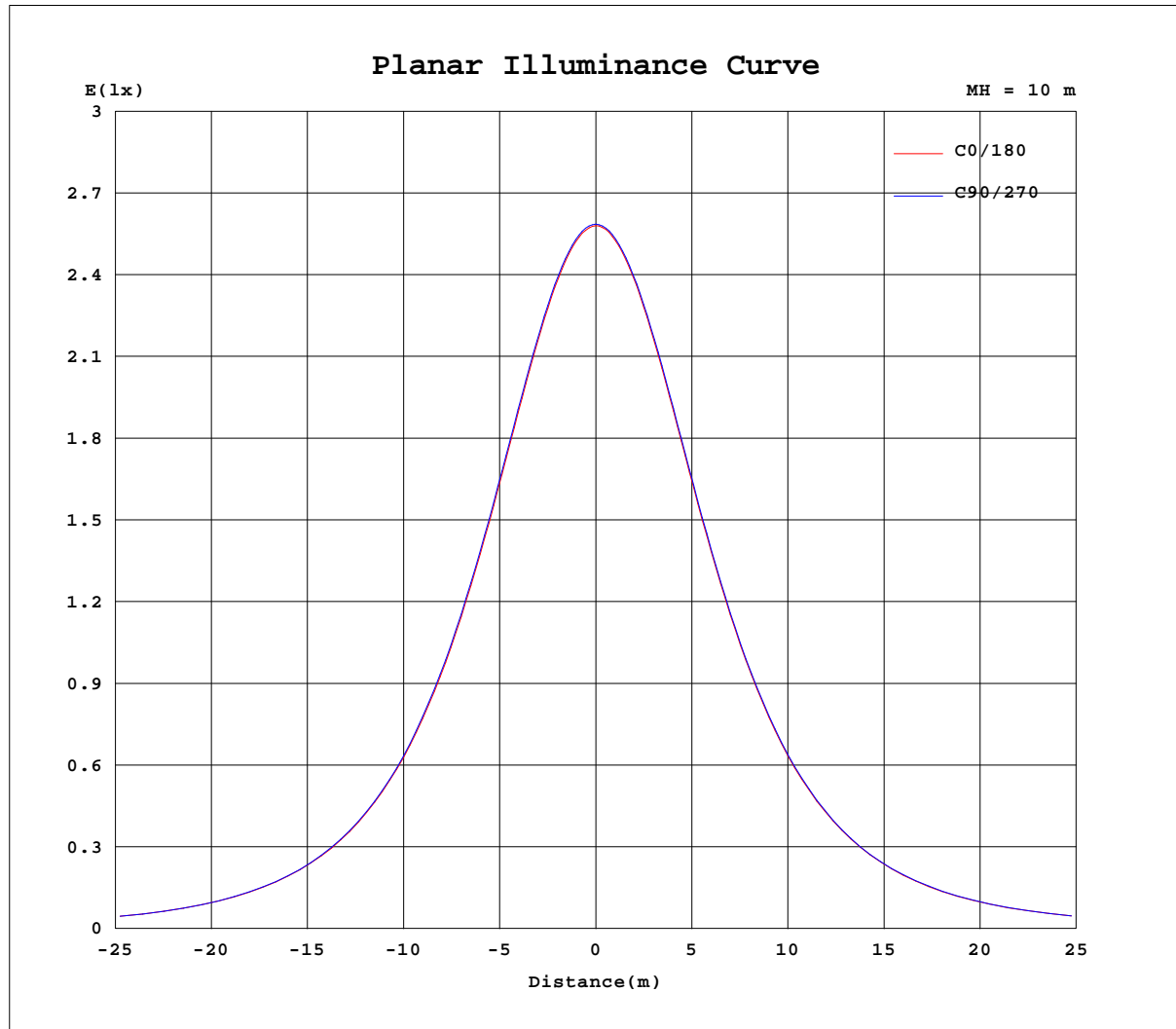
AvgL	cd/m2
L_0~180(65)av	8915
L_0~180(75)av	8217
L_0~180(85)av	7208
L_90~270(65)av	8965
L_90~270(75)av	8027
L_90~270(85)av	5788
L_45(65)av	8953
L_45(75)av	8113
L_45(85)av	6342

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2019-04-19

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: COLORS
Test Date: 2019-04-19

Range: 0 - 180DEG
Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 7.500m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.5600A P:13.40W PF:0 Freq:0Hz Lamp Flux:785.63x1 lm		
NAME: ALS-LE2711FDXSS1000	TYPE:	WEIGHT:
SPEC.:ALS-LE2711FDXSS1000-F16NW9X-BC	DIM.: 1000*27*11	SERIAL No.:
MFR.: Colors	SUR.:1000*27	Shielding Angle:

Table--1

UNIT: cd

C(DEG) g (DEG)	0	90	180	270														
0	258	259	258	259														
5	257	258	257	258														
10	253	254	254	255														
15	248	249	249	250														
20	241	243	242	243														
25	232	234	233	234														
30	221	223	222	224														
35	208	210	210	211														
40	194	196	196	197														
45	178	180	180	181														
50	161	162	162	164														
55	142	143	144	145														
60	122	123	124	126														
65	100	101	103	104														
70	78.2	78.1	81.2	80.3														
75	55.8	54.9	59.1	57.3														
80	34.3	32.2	37.4	35.2														
85	16.1	12.2	17.8	15.0														
90	6.28	0.96	4.05	2.27														
95	4.07	0.28	0.88	0.38														
100	2.09	0.37	0.44	0.35														
105	0.94	0.46	0.48	0.44														
110	0.61	0.55	0.57	0.53														
115	0.63	0.65	0.65	0.63														
120	0.73	0.75	0.75	0.73														
125	0.83	0.84	0.84	0.84														
130	0.94	0.94	0.93	0.94														
135	1.05	1.02	1.03	1.03														
140	1.11	1.11	1.13	1.10														
145	1.20	1.19	1.20	1.19														
150	1.29	1.25	1.29	1.25														
155	1.35	1.31	1.38	1.30														
160	1.39	1.36	1.41	1.35														
165	1.39	1.39	1.43	1.39														
170	1.40	1.42	1.44	1.43														
175	1.44	1.44	1.45	1.44														
180	1.44	1.44	1.45	1.44														

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2019-04-19

g Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks: