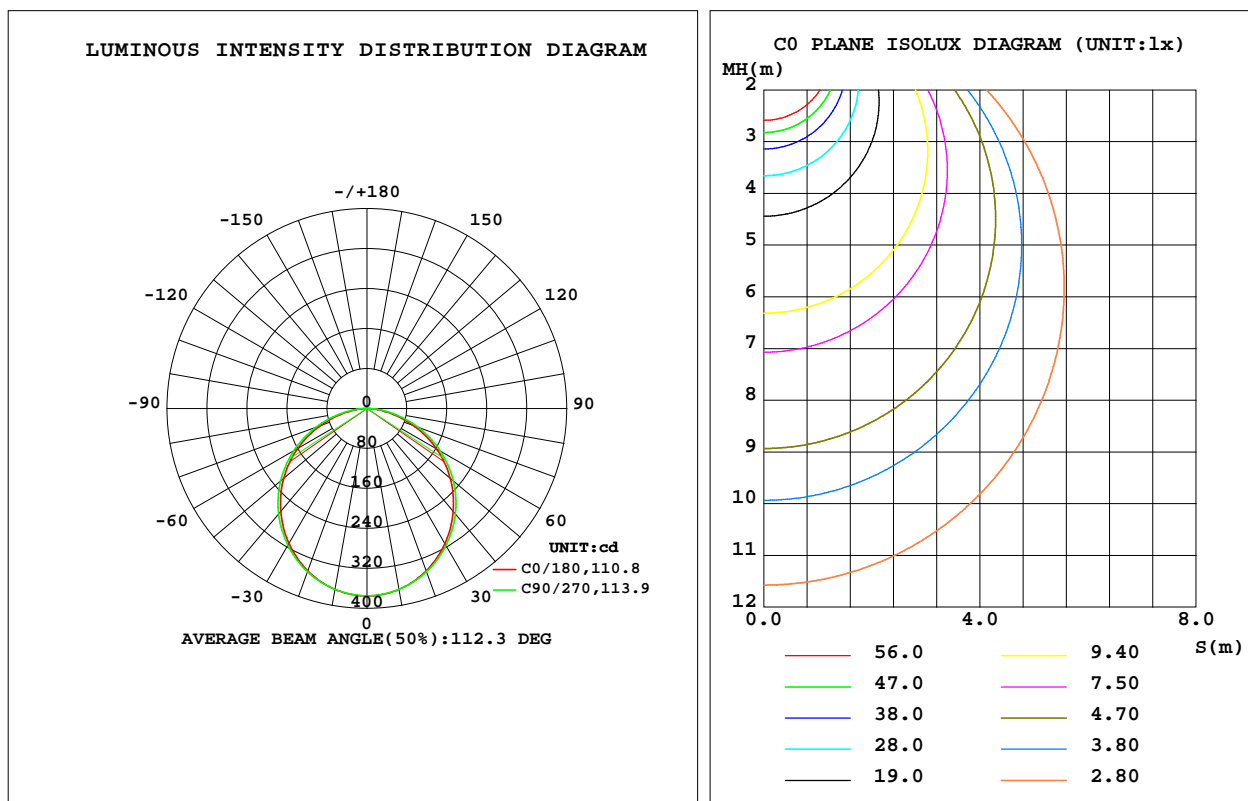


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.0V I:0.1240A P:26.09W PF:0.9560 Freq:50.00Hz Lamp Flux:1074.07x1 lm		
NAME: LLS-LE5535FDXSS1000	TYPE:	WEIGHT:
SPEC.:LLS-LE5535FDXSS1000-F20NW8D-CC	DIM.: 1000*55*35mm	SERIAL No.:01
MFR.: Colors	SUR.:1000*55	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 41.17 lm/W			
MODEL	LLS-LE5535FDXSS1000	I _{max} (cd)	375.0	S/MH(C0/180)	1.24
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1074.1	h UP,DN(C0-180)	0.3,49.7
NOMINAL FLUX(lm)	1074.07	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.3,49.7
LAMPS INSIDE	1	h up(%)	0.6	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220	h down(%)	99.4	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2018-10-16

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:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

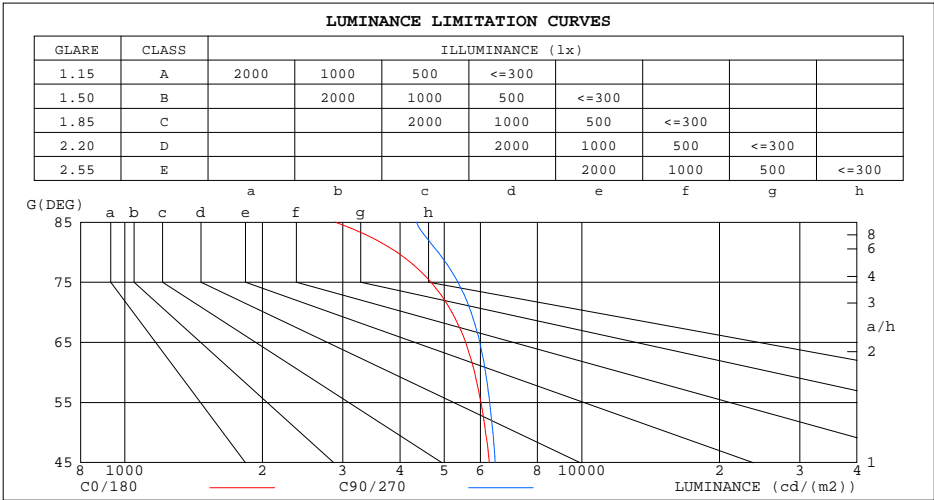
g	C0	C90	C180	C270					g	F zone	F total	%lum,lamp
10	367.6	367.8	367.6	367.8					0~ 10	35.44	35.44	3.3,3.3
20	346.0	347.9	346.0	347.9					10~ 20	101.3	136.7	12.7,12.7
30	312.2	316.4	312.2	316.4					20~ 30	153.0	289.7	27,27
40	268.8	275.3	268.8	275.3					30~ 40	184.1	473.8	44.1,44.1
50	217.8	225.8	217.8	225.8					40~ 50	191.1	664.9	61.9,61.9
60	160.3	169.3	160.3	169.3					50~ 60	173.4	838.3	78,78
70	97.80	107.7	97.80	107.7					60~ 70	132.7	971.0	90.4,90.4
80	37.64	46.34	37.64	46.34					70~ 80	75.65	1047	97.4,97.4
90	0.8391	3.543	0.8391	3.543					80~ 90	20.57	1067	99.4,99.4
100	0.4717	0.5296	0.4717	0.5296					90~100	0.5918	1068	99.4,99.4
110	0.7257	0.7757	0.7257	0.7757					100~110	0.6602	1068	99.5,99.5
120	1.011	1.061	1.011	1.061					110~120	0.8815	1069	99.6,99.6
130	1.289	1.322	1.289	1.322					120~130	1.046	1070	99.7,99.7
140	1.567	1.539	1.567	1.539					130~140	1.108	1071	99.8,99.8
150	1.731	1.739	1.731	1.739					140~150	1.034	1072	99.9,99.9
160	1.874	1.874	1.874	1.874					150~160	0.8349	1073	99.9,99.9
170	1.993	1.966	1.993	1.966					160~170	0.5471	1074	100,100
180	2.060	2.027	2.060	2.027					170~180	0.1913	1074	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:2018-10-16

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:220.0V I:0.1240A P:26.09W PF:0.9560 Freq:50.00Hz Lamp Flux:1074.07x1 lm		
NAME: LLS-LE5535FDXSS1000	TYPE:	WEIGHT:
SPEC.:LLS-LE5535FDXSS1000-F20NW8D-CC	DIM.: 1000*55*35mm	SERIAL No.:01
MFR.: Colors	SUR.:1000*55	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	2884	4344
80	3941	4852
75	4679	5358
70	5199	5724
65	5569	5979
60	5828	6158
55	6017	6290
50	6161	6388
45	6279	6466

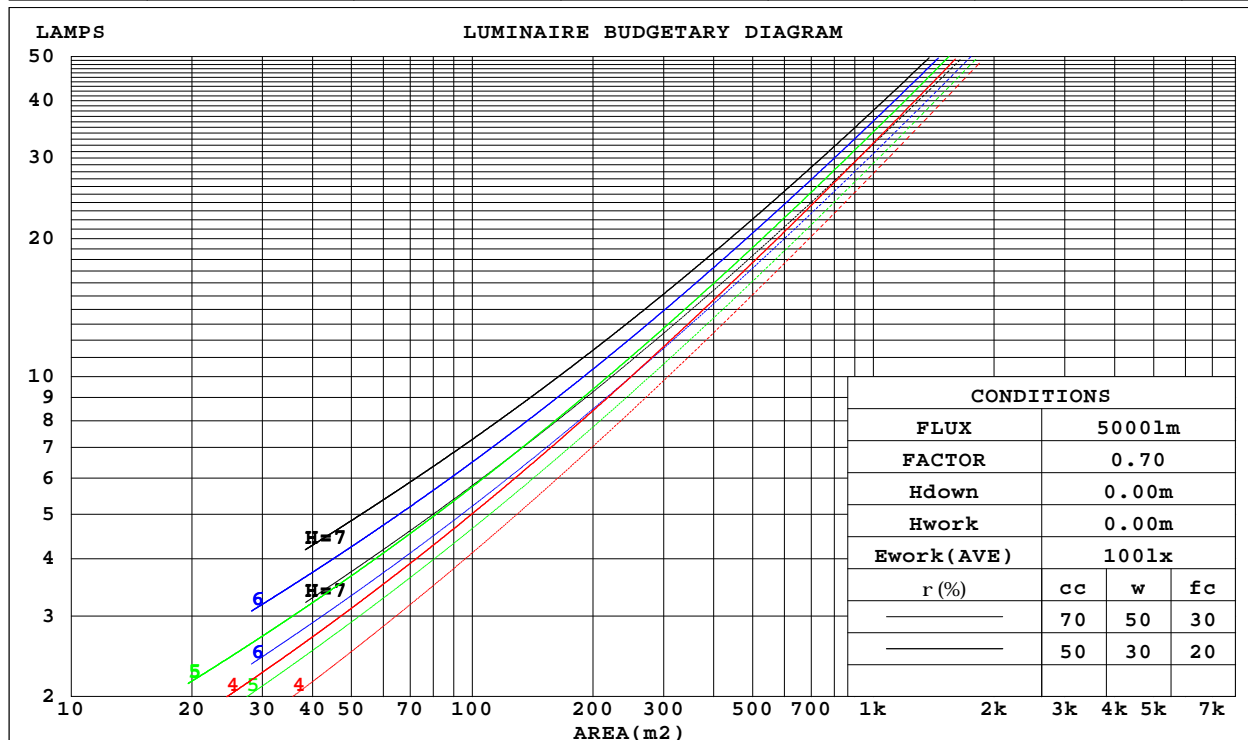
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2018-10-16

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:220.0V I:0.1240A P:26.09W PF:0.9560 Freq:50.00Hz Lamp Flux:1074.07x1 lm		
NAME: LLS-LE5535FDXSS1000	TYPE:	WEIGHT:
SPEC.:LLS-LE5535FDXSS1000-F20NW8D-CC	DIM.: 1000*55*35mm	SERIAL No.:01
MFR.: Colors	SUR.:1000*55	Shielding Angle:

r _{cc}	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			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	1.01	1.01	1.01	.99
1.0	1.04	.99	.95	1.01	.97	.94	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.78	.88	.82	.77	.85	.79	.75	.81	.77	.73	.78	.74	.71	.69
3.0	.79	.71	.64	.78	.70	.64	.74	.68	.62	.72	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.64	.57	.52	.61	.56	.52	.49
5.0	.63	.53	.47	.61	.53	.46	.59	.52	.46	.57	.51	.45	.55	.49	.45	.43
6.0	.56	.47	.41	.55	.47	.41	.53	.46	.40	.52	.45	.40	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.49	.41	.36	.47	.40	.35	.46	.40	.35	.33
8.0	.47	.38	.32	.46	.38	.32	.44	.37	.32	.43	.36	.31	.42	.36	.31	.29
9.0	.43	.34	.29	.42	.34	.29	.41	.34	.29	.40	.33	.28	.39	.33	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.26	.24



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2018-10-16

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:

WEC AND CCEC

Test:U:220.0V I:0.1240A P:26.09W PF:0.9560 Freq:50.00Hz Lamp Flux:1074.07x1 lm		
NAME: LLS-LE5535FDXSS1000	TYPE:	WEIGHT:
SPEC.:LLS-LE5535FDXSS1000-F20NW8D-CC	DIM.: 1000*55*35mm	SERIAL No.:01
MFR.: Colors	SUR.:1000*55	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	.311	.177	.056	.303	.173	.055	.290	.166	.053	.277	.160	.051	.266	.154	.050	
2.0	.292	.160	.049	.286	.157	.049	.274	.152	.047	.263	.147	.046	.252	.143	.045	
3.0	.270	.144	.043	.265	.142	.043	.254	.138	.042	.244	.134	.041	.235	.130	.040	
4.0	.249	.130	.038	.244	.128	.038	.235	.125	.037	.226	.121	.037	.218	.118	.036	
5.0	.231	.117	.034	.226	.116	.034	.218	.113	.033	.210	.111	.033	.202	.108	.033	
6.0	.214	.107	.031	.210	.106	.031	.202	.104	.030	.195	.101	.030	.189	.099	.029	
7.0	.199	.098	.028	.195	.097	.028	.189	.095	.027	.182	.093	.027	.176	.092	.027	
8.0	.186	.091	.026	.183	.090	.025	.177	.088	.025	.171	.087	.025	.166	.085	.025	
9.0	.174	.084	.024	.171	.083	.023	.166	.082	.023	.161	.081	.023	.156	.079	.023	
10.0	.164	.078	.022	.161	.078	.022	.156	.077	.022	.152	.075	.021	.147	.074	.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	.195	.195	.195	.167	.167	.167	.114	.114	.114	.065	.065	.065	.021	.021	.021		
1.0	.185	.161	.139	.159	.138	.120	.108	.095	.083	.062	.055	.048	.020	.018	.016		
2.0	.177	.137	.103	.152	.118	.089	.104	.082	.062	.060	.047	.036	.019	.015	.012		
3.0	.170	.119	.079	.145	.103	.069	.100	.071	.048	.058	.042	.028	.019	.014	.009		
4.0	.162	.106	.063	.139	.092	.055	.096	.064	.039	.055	.037	.023	.018	.012	.008		
5.0	.155	.096	.052	.133	.083	.045	.091	.058	.032	.053	.034	.019	.017	.011	.006		
6.0	.147	.087	.044	.127	.076	.038	.087	.053	.027	.051	.031	.016	.016	.010	.005		
7.0	.141	.080	.038	.121	.070	.033	.084	.049	.024	.049	.029	.014	.016	.009	.005		
8.0	.134	.075	.034	.115	.065	.029	.080	.045	.021	.046	.027	.012	.015	.009	.004		
9.0	.128	.070	.030	.110	.060	.026	.076	.042	.019	.044	.025	.011	.014	.008	.004		
10.0	.122	.065	.028	.105	.057	.024	.073	.040	.017	.043	.024	.010	.014	.008	.003		

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2018-10-16

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:220.0V I:0.1240A P:26.09W PF:0.9560 Freq:50.00Hz Lamp Flux:1074.07x1 lm										
NAME: LLS-LE5535FDXSS1000					TYPE:			WEIGHT:		
SPEC.:LLS-LE5535FDXSS1000-F20NW8D-CC					DIM.: 1000*55*35mm			SERIAL No.:01		
MFR.: Colors					SUR.:1000*55			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	18.8	20.3	19.1	20.5	20.8	19.0	20.5	19.3	20.7	21.0
3H	20.3	21.7	20.6	21.9	22.2	20.6	22.0	20.9	22.2	22.5
4H	20.8	22.2	21.2	22.4	22.7	21.2	22.6	21.5	22.8	23.1
6H	21.2	22.5	21.6	22.7	23.0	21.7	22.9	22.0	23.2	23.5
8H	21.3	22.5	21.7	22.8	23.1	21.8	23.0	22.2	23.3	23.6
12H	21.3	22.5	21.7	22.8	23.1	21.9	23.1	22.3	23.4	23.7
4H 2H	19.5	20.8	19.8	21.1	21.3	19.6	20.9	19.9	21.2	21.5
3H	21.1	22.3	21.5	22.6	22.9	21.4	22.5	21.7	22.8	23.2
4H	21.8	22.9	22.2	23.2	23.5	22.1	23.2	22.5	23.5	23.9
6H	22.3	23.2	22.7	23.6	24.0	22.7	23.6	23.1	24.0	24.4
8H	22.4	23.3	22.8	23.7	24.1	22.9	23.8	23.3	24.2	24.6
12H	22.5	23.3	22.9	23.7	24.1	23.0	23.8	23.5	24.2	24.7
8H 4H	22.1	22.9	22.5	23.3	23.7	22.4	23.2	22.8	23.6	24.0
6H	22.7	23.4	23.1	23.8	24.3	23.1	23.8	23.5	24.2	24.7
8H	22.9	23.5	23.4	24.0	24.4	23.4	24.0	23.8	24.5	24.9
12H	23.0	23.6	23.5	24.0	24.5	23.6	24.1	24.1	24.6	25.1
12H 4H	22.1	22.9	22.5	23.3	23.7	22.4	23.2	22.8	23.6	24.0
6H	22.7	23.4	23.2	23.8	24.3	23.1	23.8	23.6	24.2	24.7
8H	23.0	23.6	23.5	24.0	24.5	23.4	24.0	23.9	24.5	25.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 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, 1074 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.2)

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2018-10-16

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:220.0V I:0.1240A P:26.09W PF:0.9560 Freq:50.00Hz Lamp Flux:1074.07x1 lm		
NAME: LLS-LE5535FDXSS1000	TYPE:	WEIGHT:
SPEC.:LLS-LE5535FDXSS1000-F20NW8D-CC	DIM.: 1000*55*35mm	SERIAL No.:01
MFR.: Colors	SUR.:1000*55	Shielding Angle:

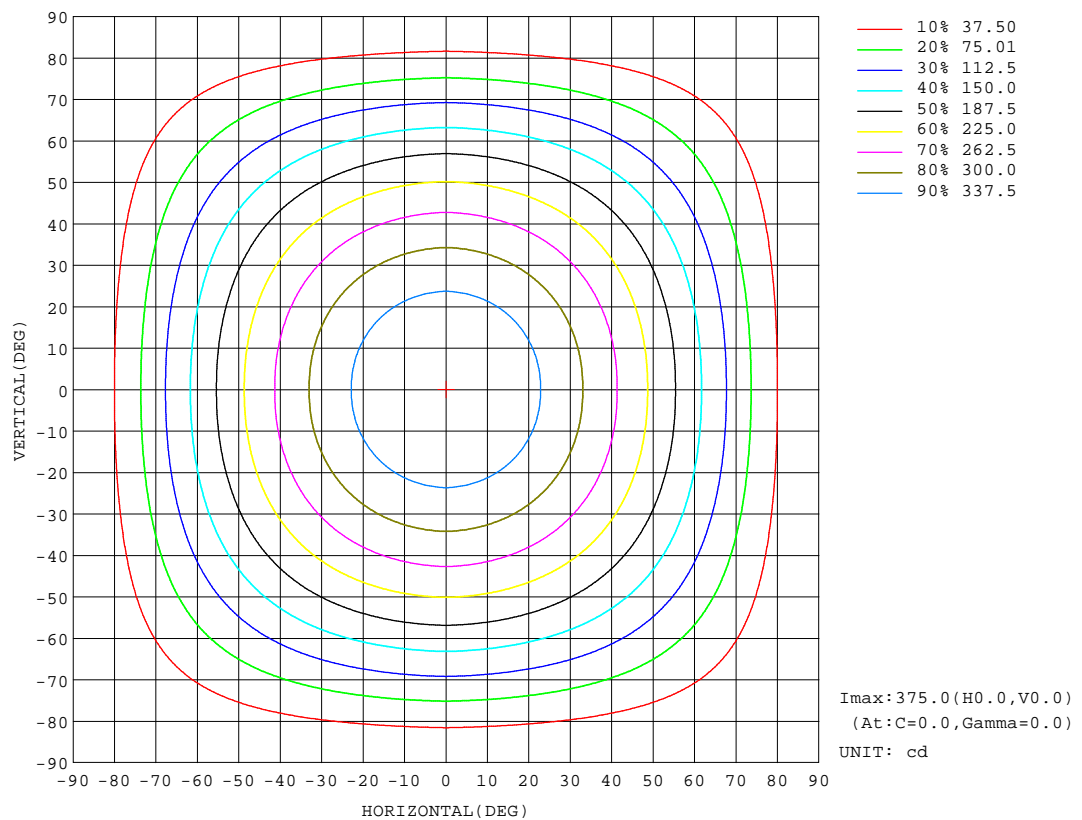
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	46	39	56	45	38	55	45	38	32
0.80	67	56	48	66	55	48	64	54	48	41
1.00	76	65	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	65	78	70	64	56
1.50	88	78	71	86	77	70	83	75	69	61
2.00	95	86	80	93	85	79	89	82	77	69
2.50	99	91	85	96	89	84	93	87	82	73
3.00	102	95	90	100	93	88	96	90	86	77
4.00	106	100	96	104	98	94	99	95	91	82
5.00	108	104	99	106	102	98	101	98	95	85
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:2018-10-16

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:220.0V I:0.1240A P:26.09W PF:0.9560 Freq:50.00Hz Lamp Flux:1074.07x1 lm		
NAME: LLS-LE5535FDXSS1000	TYPE:	WEIGHT:
SPEC.:LLS-LE5535FDXSS1000-F20NW8D-CC	DIM.: 1000*55*35mm	SERIAL No.:01
MFR.: Colors	SUR.:1000*55	Shielding Angle:



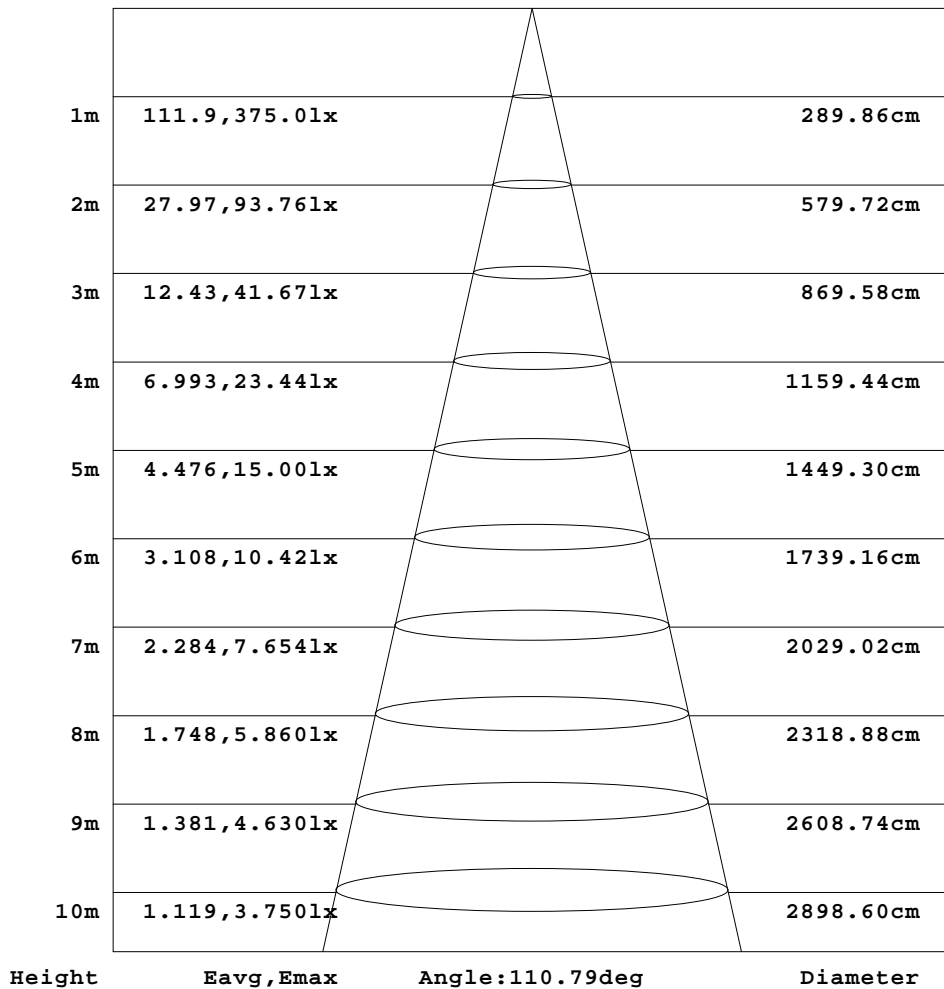
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2018-10-16

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:220.0V I:0.1240A P:26.09W PF:0.9560 Freq:50.00Hz Lamp Flux:1074.07x1 lm		
NAME: LLS-LE5535FDXSS1000	TYPE:	WEIGHT:
SPEC.:LLS-LE5535FDXSS1000-F20NW8D-CC	DIM.: 1000*55*35mm	SERIAL No.:01
MFR.: Colors	SUR.:1000*55	Shielding Angle:

Flux out:772.6 lm



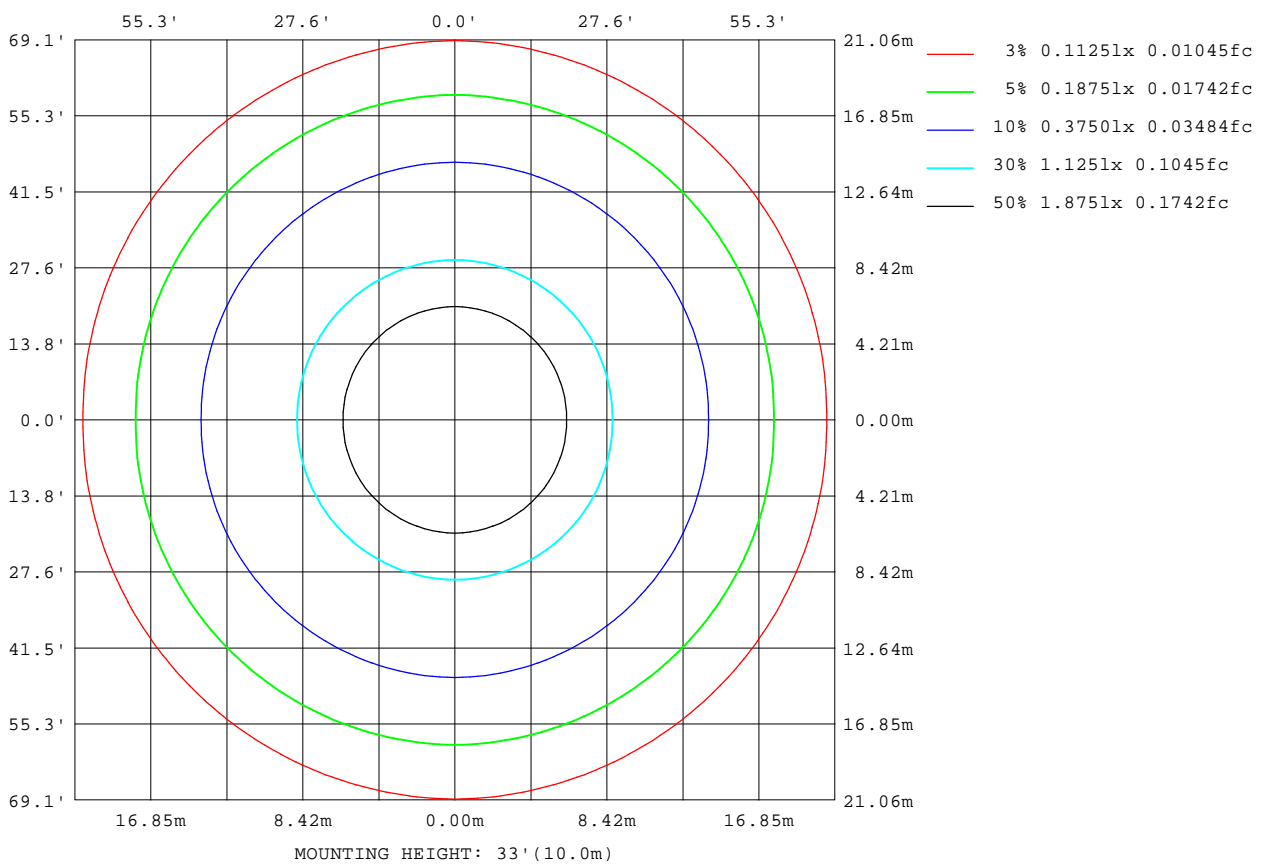
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2018-10-16

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:

ISOLUX DIAGRAM

Test:U:220.0V I:0.1240A P:26.09W PF:0.9560 Freq:50.00Hz Lamp Flux:1074.07x1 lm		
NAME: LLS-LE5535FDXSS1000	TYPE:	WEIGHT:
SPEC.:LLS-LE5535FDXSS1000-F20NW8D-CC	DIM.: 1000*55*35mm	SERIAL No.:01
MFR.: Colors	SUR.:1000*55	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2018-10-16

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:220.0V I:0.1240A P:26.09W PF:0.9560 Freq:50.00Hz Lamp Flux:1074.07x1 lm		
NAME: LLS-LE5535FDXSS1000	TYPE:	WEIGHT:
SPEC.:LLS-LE5535FDXSS1000-F20NW8D-CC	DIM.: 1000*55*35mm	SERIAL No.:01
MFR.: Colors	SUR.:1000*55	Shielding Angle:

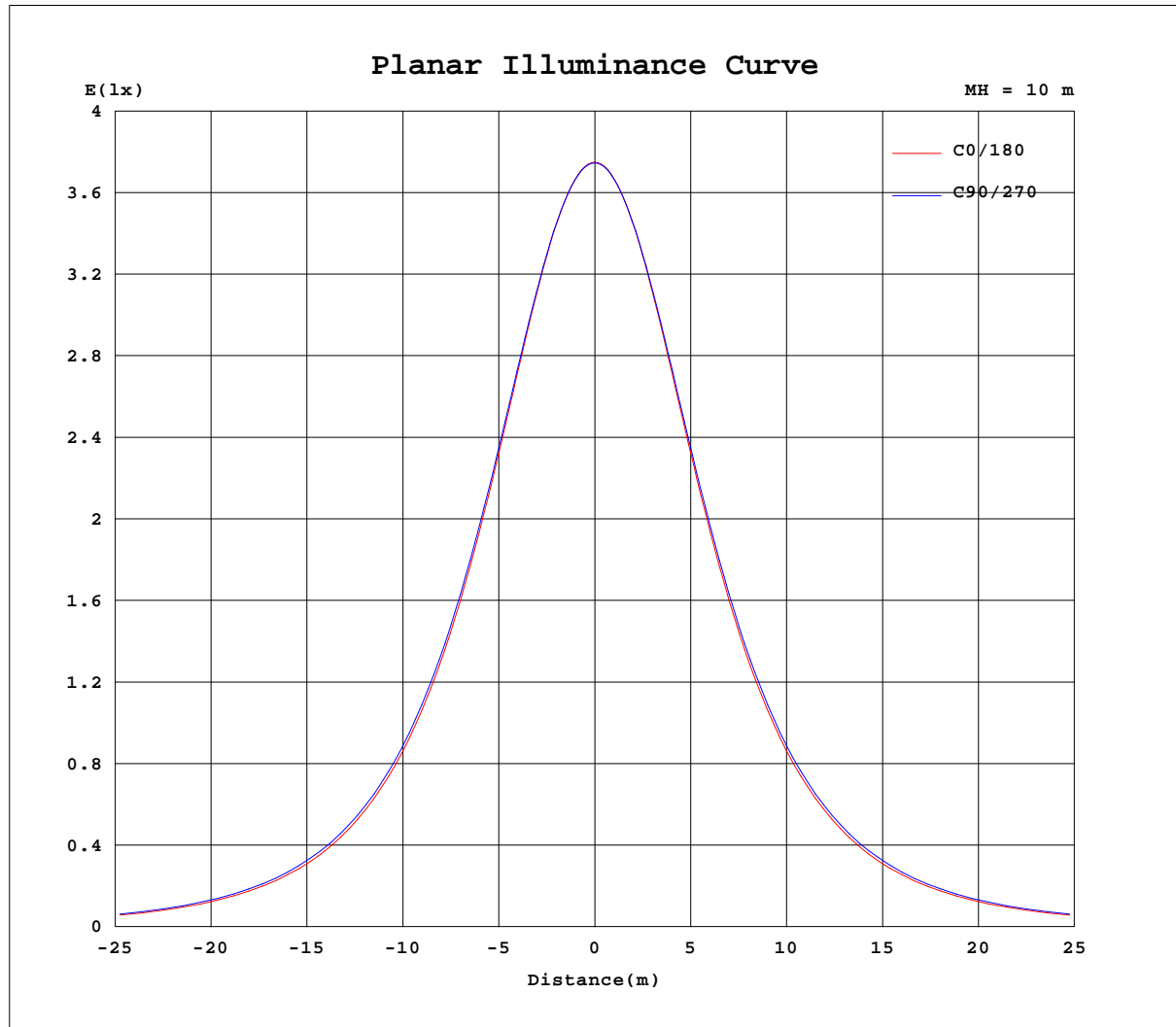
AvgL	cd/m2
L_0~180(65)av	5569
L_0~180(75)av	4679
L_0~180(85)av	2884
L_90~270(65)av	5979
L_90~270(75)av	5358
L_90~270(85)av	4344
L_45(65)av	5825
L_45(75)av	5103
L_45(85)av	3796

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2018-10-16

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: 2018-10-16

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.0V I:0.1240A P:26.09W PF:0.9560 Freq:50.00Hz Lamp Flux:1074.07x1 lm		
NAME: LLS-LE5535FDXSS1000	TYPE:	WEIGHT:
SPEC.:LLS-LE5535FDXSS1000-F20NW8D-CC	DIM.: 1000*55*35mm	SERIAL No.:01
MFR.: Colors	SUR.:1000*55	Shielding Angle:

Table--1

UNIT: cd

C(DEG) g (DEG)	0	90	180	270															
0	375	375	375	375															
5	373	373	373	373															
10	368	368	368	368															
15	358	359	358	359															
20	346	348	346	348															
25	330	334	330	334															
30	312	316	312	316															
35	292	297	292	297															
40	269	275	269	275															
45	244	251	244	251															
50	218	226	218	226															
55	190	198	190	198															
60	160	169	160	169															
65	129	139	129	139															
70	97.8	108	97.8	108															
75	66.6	76.3	66.6	76.3															
80	37.6	46.3	37.6	46.3															
85	13.8	20.8	13.8	20.8															
90	0.84	3.54	0.84	3.54															
95	0.39	0.41	0.39	0.41															
100	0.47	0.53	0.47	0.53															
105	0.60	0.65	0.60	0.65															
110	0.73	0.78	0.73	0.78															
115	0.87	0.92	0.87	0.92															
120	1.01	1.06	1.01	1.06															
125	1.15	1.19	1.15	1.19															
130	1.29	1.32	1.29	1.32															
135	1.44	1.43	1.44	1.43															
140	1.57	1.54	1.57	1.54															
145	1.67	1.64	1.67	1.64															
150	1.73	1.74	1.73	1.74															
155	1.81	1.82	1.81	1.82															
160	1.87	1.87	1.87	1.87															
165	1.95	1.93	1.95	1.93															
170	1.99	1.97	1.99	1.97															
175	2.03	2.00	2.03	2.00															
180	2.06	2.03	2.06	2.03															

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2018-10-16

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: