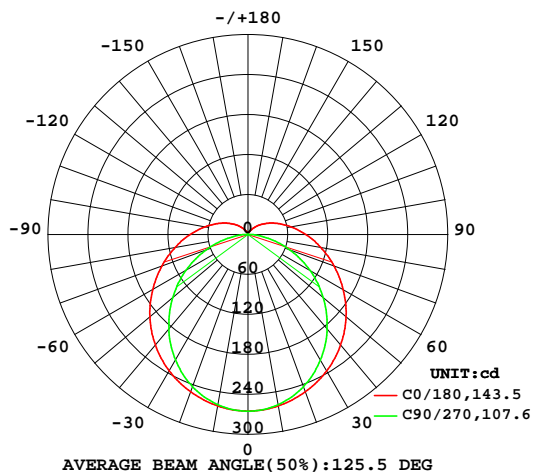


LUMINAIRE PHOTOMETRIC TEST REPORT

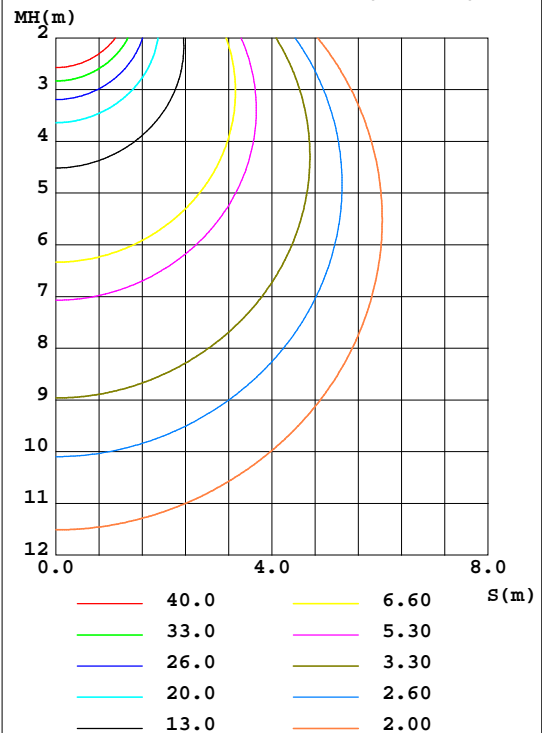
Test:U:24.00V I:0.5600A P:13.44W PF:1.000 Freq:0Hz Lamp Flux:1009.71x1 lm		
NAME: DLS-LS1911(B)CDXSS1008	TYPE:	WEIGHT:
SPEC.:DLS-LS1911(B)CDXSS1008-F15NW9X-CC	DIM.: 1008*19*11mm	SERIAL No.:01
MFR.: Colors	SUR.:1008*19	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 75.13 lm/W			
MODEL	DLS-LS1911(B)CDXSS1008	I _{max} (cd)	265.2	S/MH(C0/180)	1.33
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)	1.23
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	1009.7	h UP,DN(C0-180)	5.9,44.1
NOMINAL FLUX(lm)	1009.71	CIE CLASS	SEMI-D.	h UP,DN(C180-360)	5.9,44.1
LAMPS INSIDE	1	h up(%)	11.8	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	24	h down(%)	88.2	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: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:

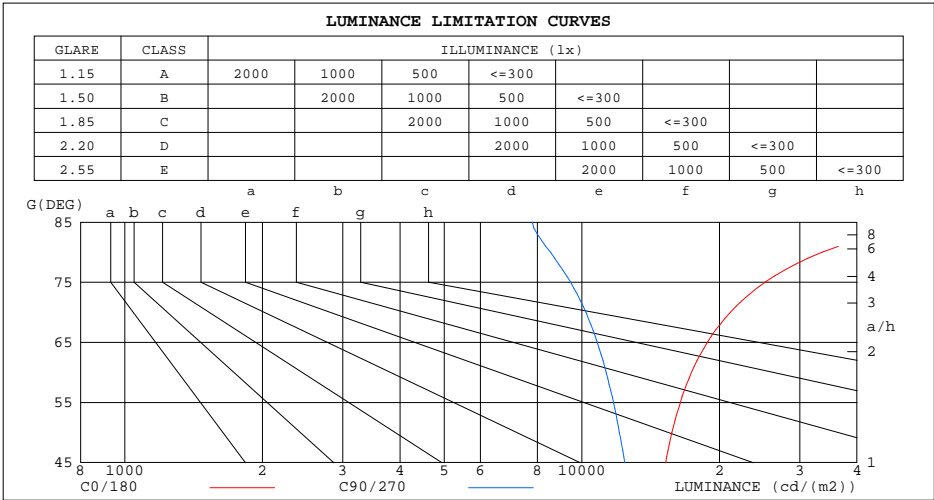
g	C0	C90	C180	C270					g	F zone	F total	%lum,lamp
10	261.3	259.4	261.3	259.4					0~ 10	25.08	25.08	2.48,2.48
20	251.3	243.2	251.3	243.2					10~ 20	71.92	97.00	9.61,9.61
30	236.5	217.6	236.5	217.6					20~ 30	109.7	206.7	20.5,20.5
40	216.5	184.9	216.5	184.9					30~ 40	134.4	341.1	33.8,33.8
50	192.3	147.6	192.3	147.6					40~ 50	143.5	484.5	48,48
60	165.0	107.4	165.0	107.4					50~ 60	137.2	621.8	61.6,61.6
70	137.3	66.34	137.3	66.34					60~ 70	117.9	739.6	73.3,73.3
80	110.8	28.16	110.8	28.16					70~ 80	90.08	829.7	82.2,82.2
90	86.95	2.402	86.95	2.402					80~ 90	61.22	890.9	88.2,88.2
100	66.20	0.4388	66.20	0.4388					90~100	41.99	932.9	92.4,92.4
110	48.67	0.5985	48.67	0.5985					100~110	30.56	963.5	95.4,95.4
120	34.13	0.7631	34.13	0.7631					110~120	20.82	984.3	97.5,97.5
130	22.33	0.9386	22.33	0.9386					120~130	13.00	997.3	98.8,98.8
140	12.80	1.094	12.80	1.094					130~140	7.206	1005	99.5,99.5
150	6.383	1.244	6.383	1.244					140~150	3.362	1008	99.8,99.8
160	2.361	1.328	2.361	1.328					150~160	1.251	1009	99.9,99.9
170	1.423	1.399	1.423	1.399					160~170	0.4370	1010	100,100
180	1.448	1.448	1.448	1.448					170~180	0.1357	1010	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:24.00V I:0.5600A P:13.44W PF:1.000 Freq:0Hz Lamp Flux:1009.71x1 lm		
NAME: DLS-LS1911(B)CDXSS1008	TYPE:	WEIGHT:
SPEC.:DLS-LS1911(B)CDXSS1008-F15NW9X-CC	DIM.: 1008*19*11mm	SERIAL No.:01
MFR.: Colors	SUR.:1008*19	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	59485	7796
80	33575	8535
75	25162	9447
70	21130	10208
65	18821	10812
60	17373	11303
55	16428	11726
50	15746	12086
45	15255	12417

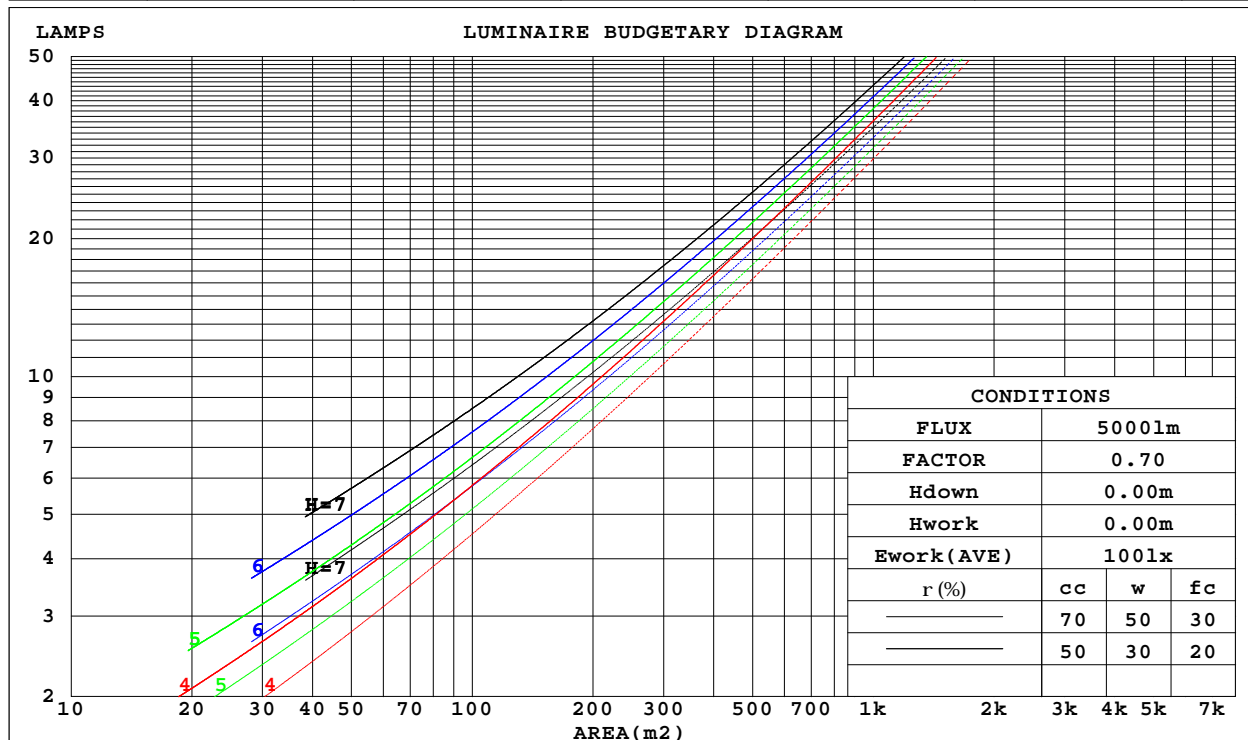
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2018-10-16

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:24.00V I:0.5600A P:13.44W PF:1.000 Freq:0Hz Lamp Flux:1009.71x1 lm		
NAME: DLS-LS1911(B)CDXSS1008	TYPE:	WEIGHT:
SPEC.:DLS-LS1911(B)CDXSS1008-F15NW9X-CC	DIM.: 1008*19*11mm	SERIAL No.:01
MFR.: Colors	SUR.:1008*19	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															



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:

WEC AND CCEC

Test:U:24.00V I:0.5600A P:13.44W PF:1.000 Freq:0Hz Lamp Flux:1009.71x1 lm		
NAME: DLS-LS1911(B)CDXSS1008	TYPE:	WEIGHT:
SPEC.:DLS-LS1911(B)CDXSS1008-F15NW9X-CC	DIM.: 1008*19*11mm	SERIAL No.:01
MFR.: Colors	SUR.:1008*19	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	.366	.208	.066	.355	.203	.064	.335	.192	.061	.316	.182	.059	.299	.173	.056	
2.0	.323	.177	.054	.313	.172	.053	.295	.164	.051	.278	.156	.049	.263	.149	.047	
3.0	.290	.154	.046	.281	.150	.045	.265	.143	.044	.249	.137	.042	.235	.130	.040	
4.0	.262	.136	.040	.254	.133	.039	.240	.127	.038	.226	.121	.037	.213	.116	.035	
5.0	.239	.122	.035	.232	.119	.035	.219	.114	.034	.207	.109	.032	.195	.104	.031	
6.0	.220	.110	.032	.214	.108	.031	.202	.103	.030	.190	.099	.029	.180	.095	.028	
7.0	.203	.101	.029	.198	.098	.028	.187	.094	.027	.176	.090	.026	.167	.087	.025	
8.0	.189	.092	.026	.184	.090	.026	.174	.087	.025	.164	.083	.024	.155	.080	.023	
9.0	.176	.085	.024	.172	.084	.023	.162	.080	.023	.154	.077	.022	.146	.074	.021	
10.0	.165	.079	.022	.161	.078	.022	.152	.075	.021	.144	.072	.020	.137	.069	.020	

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	.280	.280	.280	.239	.239	.239	.163	.163	.163	.094	.094	.094	.030	.030	.030	
1.0	.275	.246	.220	.235	.211	.190	.161	.145	.131	.092	.084	.076	.030	.027	.025	
2.0	.267	.223	.185	.229	.192	.160	.157	.133	.112	.090	.077	.065	.029	.025	.021	
3.0	.260	.206	.163	.223	.178	.141	.153	.123	.099	.088	.072	.058	.028	.023	.019	
4.0	.252	.193	.148	.216	.167	.129	.149	.116	.091	.086	.068	.054	.028	.022	.018	
5.0	.244	.183	.138	.210	.158	.120	.144	.111	.085	.084	.065	.050	.027	.021	.017	
6.0	.237	.175	.131	.204	.152	.114	.140	.106	.081	.081	.062	.048	.026	.020	.016	
7.0	.230	.168	.125	.198	.146	.109	.137	.102	.077	.079	.060	.046	.026	.020	.015	
8.0	.223	.163	.121	.192	.141	.106	.133	.099	.075	.077	.058	.045	.025	.019	.015	
9.0	.217	.158	.118	.187	.137	.103	.129	.096	.073	.075	.057	.044	.024	.019	.014	
10.0	.211	.154	.115	.182	.133	.101	.126	.094	.072	.074	.055	.043	.024	.018	.014	

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:24.00V I:0.5600A P:13.44W PF:1.000 Freq:0Hz Lamp Flux:1009.71x1 lm											
NAME: DLS-LS1911(B)CDXSS1008						TYPE:		WEIGHT:			
SPEC.:DLS-LS1911(B)CDXSS1008-F15NW9X-CC						DIM.: 1008*19*11mm		SERIAL No.:01			
MFR.: Colors						SUR.:1008*19		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	22.0	23.4	22.4	23.8	24.3	20.5	21.9	20.9	22.3	22.8	
	3H	24.4	25.8	24.9	26.2	26.7	22.0	23.3	22.5	23.8	24.3
	4H	25.8	27.0	26.2	27.5	28.0	22.6	23.9	23.1	24.3	24.8
	6H	27.2	28.4	27.7	28.9	29.4	23.1	24.3	23.6	24.7	25.3
	8H	28.1	29.2	28.6	29.7	30.2	23.2	24.4	23.7	24.9	25.4
	12H	29.0	30.1	29.5	30.6	31.2	23.3	24.4	23.8	24.9	25.5
4H	2H	22.5	23.8	23.0	24.3	24.8	21.4	22.7	21.9	23.1	23.6
	3H	25.2	26.3	25.7	26.8	27.3	23.2	24.3	23.7	24.8	25.3
	4H	26.7	27.7	27.2	28.2	28.8	24.0	25.0	24.5	25.5	26.1
	6H	28.3	29.2	28.9	29.8	30.4	24.6	25.5	25.2	26.1	26.7
	8H	29.3	30.1	29.9	30.7	31.3	24.8	25.7	25.4	26.3	26.9
	12H	30.4	31.2	31.0	31.7	32.4	25.0	25.8	25.6	26.4	27.0
8H	4H	26.9	27.8	27.5	28.3	29.0	24.7	25.6	25.3	26.1	26.8
	6H	28.9	29.6	29.5	30.2	30.8	25.7	26.4	26.3	27.0	27.6
	8H	30.0	30.6	30.6	31.2	31.9	26.1	26.7	26.7	27.3	28.0
	12H	31.3	31.9	32.0	32.5	33.3	26.4	27.0	27.1	27.6	28.3
12H	4H	26.9	27.7	27.5	28.3	29.0	24.9	25.7	25.5	26.3	26.9
	6H	28.9	29.6	29.6	30.2	30.9	26.0	26.7	26.7	27.3	28.0
	8H	30.2	30.7	30.8	31.4	32.1	26.6	27.1	27.2	27.8	28.5
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2					
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.3					
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.4					

CIE Pub.117, 1010 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.0)

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:24.00V I:0.5600A P:13.44W PF:1.000 Freq:0Hz Lamp Flux:1009.71x1 lm		
NAME: DLS-LS1911(B)CDXSS1008	TYPE:	WEIGHT:
SPEC.:DLS-LS1911(B)CDXSS1008-F15NW9X-CC	DIM.: 1008*19*11mm	SERIAL No.:01
MFR.: Colors	SUR.:1008*19	Shielding Angle:

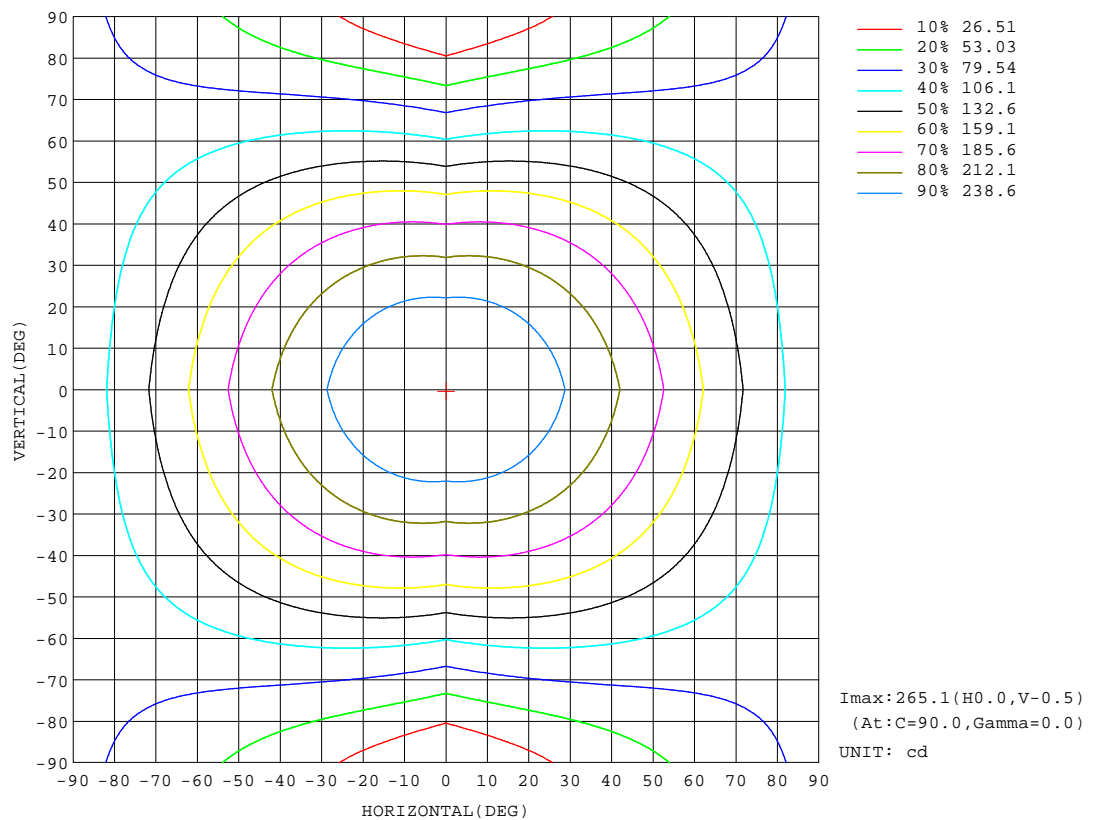
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	51	39	31	50	38	31	48	38	31	24
0.80	60	48	40	59	47	40	57	46	39	31
1.00	68	56	48	67	55	47	63	56	46	38
1.25	75	63	55	73	62	54	69	60	53	44
1.50	80	69	60	78	67	60	74	65	58	49
2.00	87	77	69	85	75	68	80	72	66	55
2.50	92	82	75	89	80	73	83	76	70	59
3.00	95	87	80	92	84	78	86	80	75	63
4.00	100	92	86	96	90	84	90	85	80	68
5.00	103	96	91	99	93	89	93	88	84	71
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:24.00V I:0.5600A P:13.44W PF:1.000 Freq:0Hz Lamp Flux:1009.71x1 lm		
NAME: DLS-LS1911(B)CDXSS1008	TYPE:	WEIGHT:
SPEC.:DLS-LS1911(B)CDXSS1008-F15NW9X-CC	DIM.: 1008*19*11mm	SERIAL No.:01
MFR.: Colors	SUR.:1008*19	Shielding Angle:



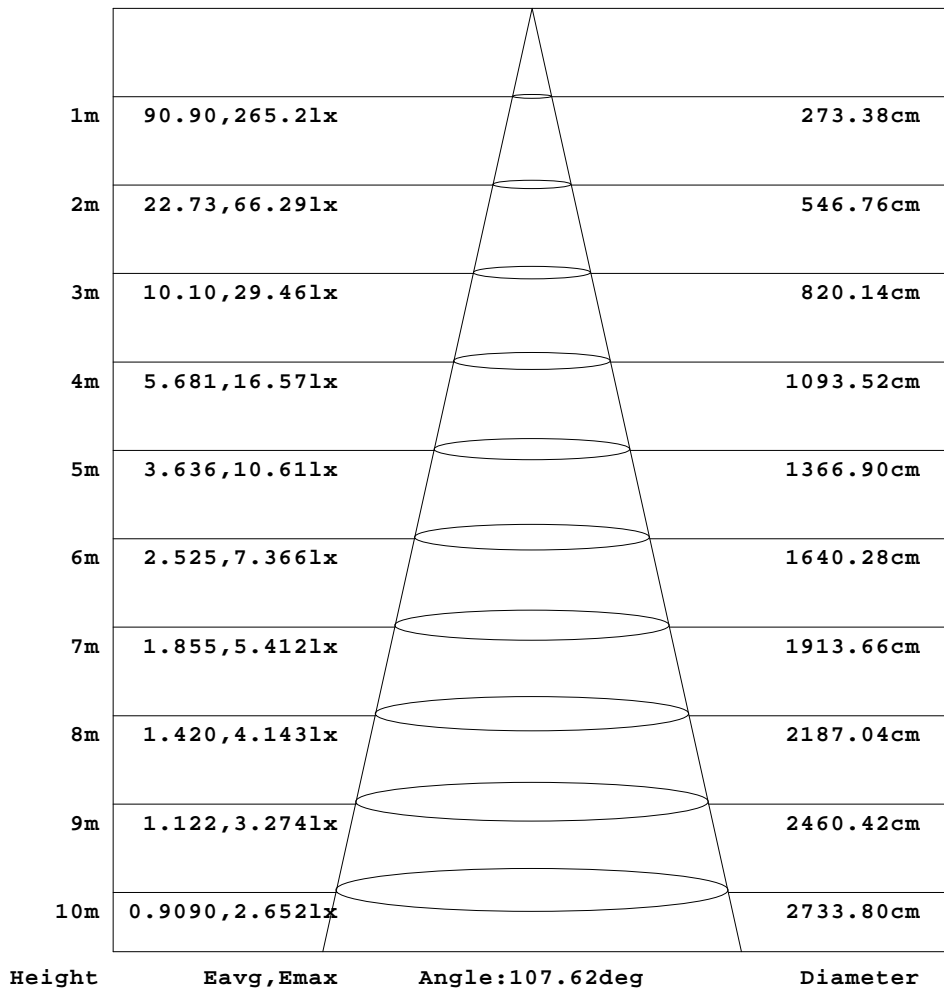
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2018-10-16

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:13.44W PF:1.000 Freq:0Hz Lamp Flux:1009.71x1 lm		
NAME: DLS-LS1911(B)CDXSS1008	TYPE:	WEIGHT:
SPEC.:DLS-LS1911(B)CDXSS1008-F15NW9X-CC	DIM.: 1008*19*11mm	SERIAL No.:01
MFR.: Colors	SUR.:1008*19	Shielding Angle:

Flux out:541.0 lm



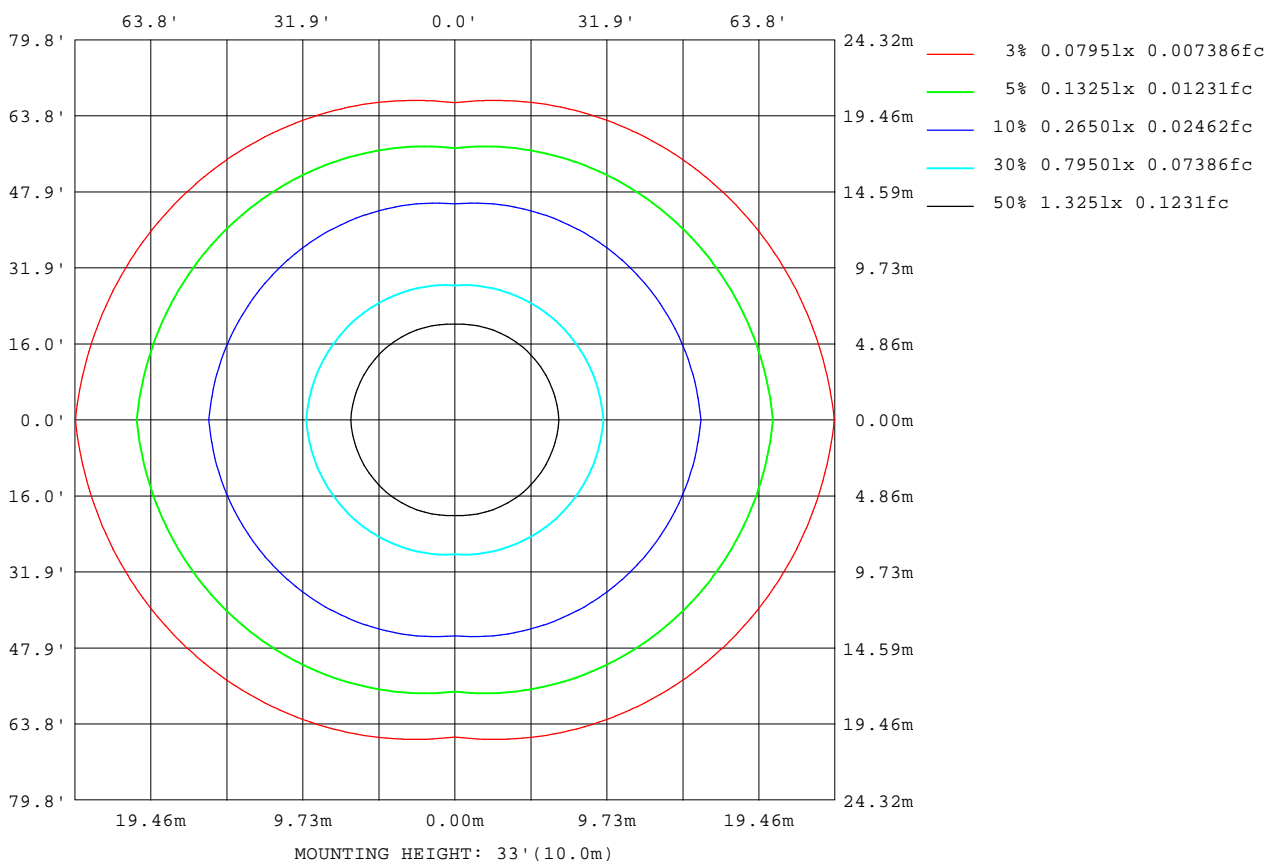
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:24.00V I:0.5600A P:13.44W PF:1.000 Freq:0Hz Lamp Flux:1009.71x1 lm		
NAME: DLS-LS1911(B)CDXSS1008	TYPE:	WEIGHT:
SPEC.:DLS-LS1911(B)CDXSS1008-F15NW9X-CC	DIM.: 1008*19*11mm	SERIAL No.:01
MFR.: Colors	SUR.:1008*19	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:24.00V I:0.5600A P:13.44W PF:1.000 Freq:0Hz Lamp Flux:1009.71x1 lm		
NAME: DLS-LS1911(B)CDXSS1008	TYPE:	WEIGHT:
SPEC.:DLS-LS1911(B)CDXSS1008-F15NW9X-CC	DIM.: 1008*19*11mm	SERIAL No.:01
MFR.: Colors	SUR.:1008*19	Shielding Angle:

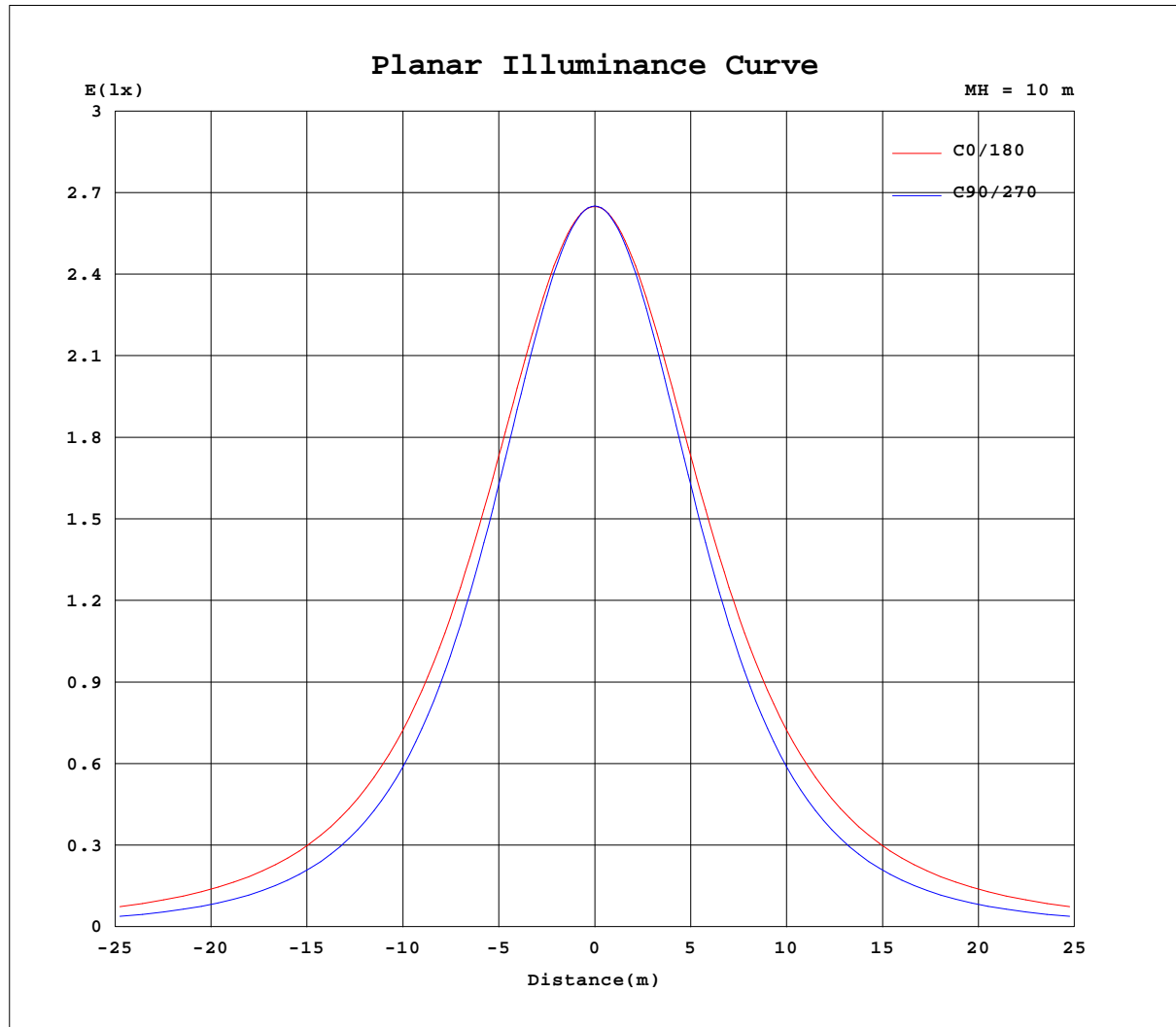
AvgL	cd/m2
L_0~180(65)av	18821
L_0~180(75)av	25162
L_0~180(85)av	59485
L_90~270(65)av	10812
L_90~270(75)av	9447
L_90~270(85)av	7796
L_45(65)av	13816
L_45(75)av	15340
L_45(85)av	27179

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

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.5600A P:13.44W PF:1.000 Freq:0Hz Lamp Flux:1009.71x1 lm		
NAME: DLS-LS1911(B)CDXSS1008	TYPE:	WEIGHT:
SPEC.:DLS-LS1911(B)CDXSS1008-F15NW9X-CC	DIM.: 1008*19*11mm	SERIAL No.:01
MFR.: Colors	SUR.:1008*19	Shielding Angle:

Table--1

UNIT: cd

C(DEG) g (DEG)	0	90	180	270														
0	265	265	265	265														
5	264	264	264	264														
10	261	259	261	259														
15	257	253	257	253														
20	251	243	251	243														
25	245	232	245	232														
30	236	218	236	218														
35	227	202	227	202														
40	217	185	217	185														
45	205	167	205	167														
50	192	148	192	148														
55	179	128	179	128														
60	165	107	165	107														
65	151	86.8	151	86.8														
70	137	66.3	137	66.3														
75	124	46.5	124	46.5														
80	111	28.2	111	28.2														
85	98.5	12.9	98.5	12.9														
90	86.9	2.40	86.9	2.40														
95	76.2	0.39	76.2	0.39														
100	66.2	0.44	66.2	0.44														
105	57.0	0.52	57.0	0.52														
110	48.7	0.60	48.7	0.60														
115	41.1	0.68	41.1	0.68														
120	34.1	0.76	34.1	0.76														
125	27.9	0.85	27.9	0.85														
130	22.3	0.94	22.3	0.94														
135	17.4	1.02	17.4	1.02														
140	12.8	1.09	12.8	1.09														
145	9.28	1.16	9.28	1.16														
150	6.38	1.24	6.38	1.24														
155	3.84	1.30	3.84	1.30														
160	2.36	1.33	2.36	1.33														
165	1.43	1.37	1.43	1.37														
170	1.42	1.40	1.42	1.40														
175	1.44	1.41	1.44	1.41														
180	1.45	1.45	1.45	1.45														

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: