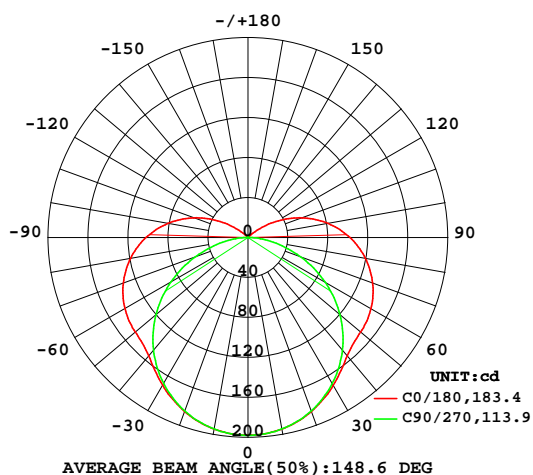


LUMINAIRE PHOTOMETRIC TEST REPORT

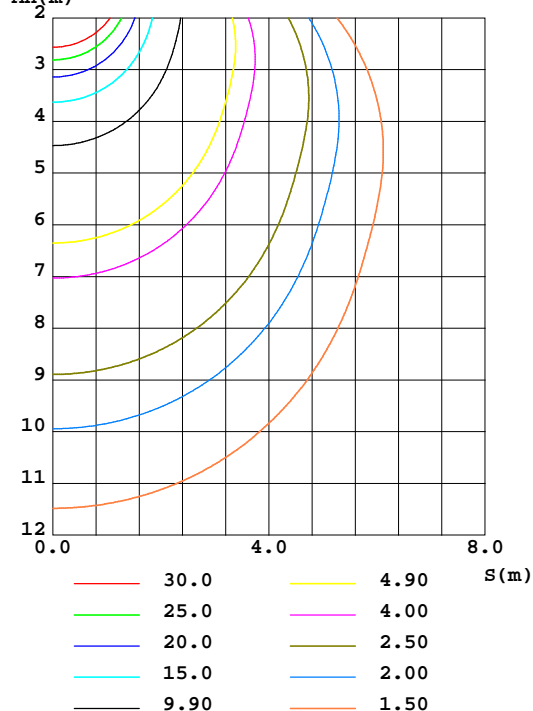
Test:U:24.00V I:0.5542A P:13.30W PF:1.000 Freq:0Hz Lamp Flux:858.32x1 lm		
NAME: DLS-LG3030(B)KDXSS1008	TYPE:	WEIGHT:
SPEC.:DLS-LG3030(B)KDXSS1008-F15NW9X-CC	DIM.: 1008*30*30mm	SERIAL No.:01
MFR.: Colors	SUR.:1008*30	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 64.54 lm/W			
MODEL	DLS-LG3030(B)KDXSS1008	I _{max} (cd)	197.9	S/MH(C0/180)	1.29
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	858.32	h UP,DN(C0-180)	7.2,42.8
NOMINAL FLUX(lm)	858.32	CIE CLASS	SEMI-D.	h UP,DN(C180-360)	7.2,42.8
LAMPS INSIDE	1	h up(%)	14.4	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	24	h down(%)	85.6	CIBSE SHR MAX	1.50

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:

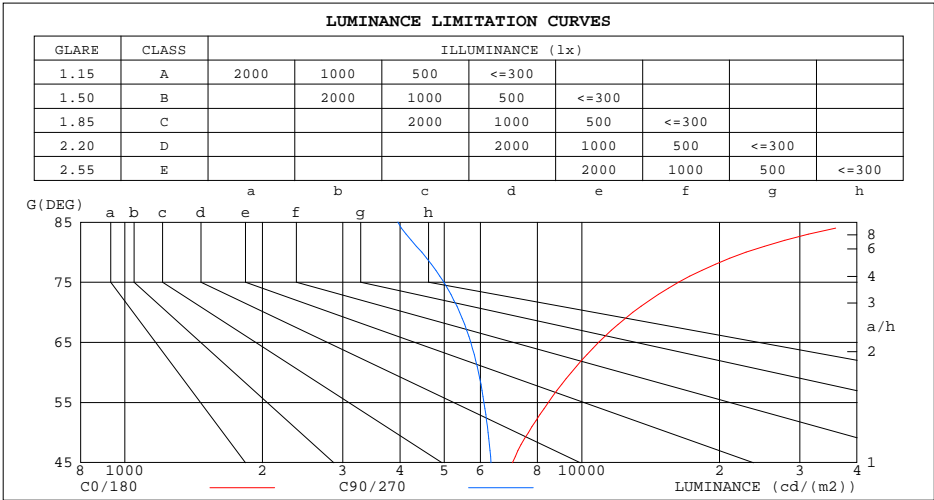
g	C0	C90	C180	C270					g	F zone	F total	%lum,lamp
10	194.7	194.6	194.7	194.6					0~ 10	18.73	18.73	2.18,2.18
20	185.4	184.7	185.4	184.7					10~ 20	53.82	72.55	8.45,8.45
30	170.7	168.8	170.7	168.8					20~ 30	82.08	154.6	18,18
40	154.6	147.1	154.6	147.1					30~ 40	100.5	255.2	29.7,29.7
50	147.3	120.2	147.3	120.2					40~ 50	109.8	365.0	42.5,42.5
60	142.2	89.12	142.2	89.12					50~ 60	112.0	477.0	55.6,55.6
70	132.7	55.45	132.7	55.45					60~ 70	104.2	581.2	67.7,67.7
80	119.2	23.28	119.2	23.28					70~ 80	87.30	668.5	77.9,77.9
90	102.1	2.036	102.1	2.036					80~ 90	66.55	735.1	85.6,85.6
100	81.56	0.3574	81.56	0.3574					90~100	50.56	785.6	91.5,91.5
110	57.90	0.4871	57.90	0.4871					100~110	37.29	822.9	95.9,95.9
120	32.29	0.6017	32.29	0.6017					110~120	22.76	845.7	98.5,98.5
130	9.360	0.7207	9.360	0.7207					120~130	9.473	855.1	99.6,99.6
140	0.9454	0.8351	0.9454	0.8351					130~140	1.736	856.9	99.8,99.8
150	0.9749	0.9509	0.9749	0.9509					140~150	0.5771	857.5	99.9,99.9
160	1.029	1.035	1.029	1.035					150~160	0.4585	857.9	100,100
170	1.071	1.091	1.071	1.091					160~170	0.2995	858.2	100,100
180	1.092	1.100	1.092	1.100					170~180	0.1038	858.3	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:0.5542A P:13.30W PF:1.000 Freq:0Hz Lamp Flux:858.32x1 lm		
NAME: DLS-LG3030(B)KDXSS1008	TYPE:	WEIGHT:
SPEC.:DLS-LG3030(B)KDXSS1008-F15NW9X-CC	DIM.: 1008*30*30mm	SERIAL No.:01
MFR.: Colors	SUR.:1008*30	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	42467	3958
80	22877	4468
75	16285	4990
70	12936	5404
65	10885	5713
60	9482	5941
55	8447	6109
50	7637	6235
45	7053	6330

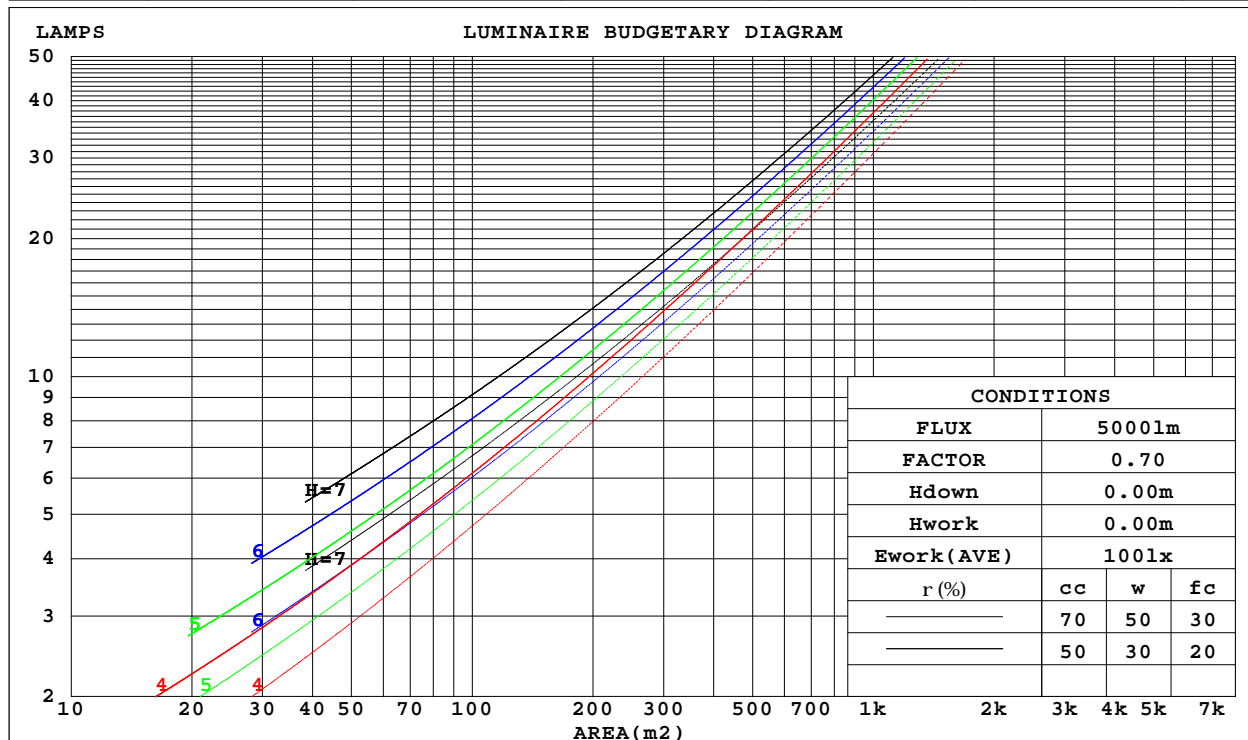
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2018-10-16

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:0.5542A P:13.30W PF:1.000 Freq:0Hz Lamp Flux:858.32x1 lm		
NAME: DLS-LG3030(B)KDXSS1008	TYPE:	WEIGHT:
SPEC.:DLS-LG3030(B)KDXSS1008-F15NW9X-CC	DIM.: 1008*30*30mm	SERIAL No.:01
MFR.: Colors	SUR.:1008*30	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:0.5542A P:13.30W PF:1.000 Freq:0Hz Lamp Flux:858.32x1 lm		
NAME: DLS-LG3030(B)KDXSS1008	TYPE:	WEIGHT:
SPEC.:DLS-LG3030(B)KDXSS1008-F15NW9X-CC	DIM.: 1008*30*30mm	SERIAL No.:01
MFR.: Colors	SUR.:1008*30	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	.392	.223	.071	.380	.217	.069	.359	.206	.066	.339	.195	.063	.320	.186	.060															
2.0	.339	.186	.057	.328	.181	.056	.309	.172	.053	.291	.163	.051	.274	.155	.049															
3.0	.301	.160	.048	.291	.156	.047	.273	.148	.045	.257	.141	.043	.242	.134	.041															
4.0	.270	.140	.041	.262	.137	.040	.246	.130	.039	.231	.124	.037	.217	.118	.036															
5.0	.245	.125	.036	.238	.122	.036	.223	.116	.034	.210	.111	.033	.197	.105	.032															
6.0	.224	.113	.032	.218	.110	.032	.204	.105	.030	.192	.100	.029	.180	.095	.028															
7.0	.207	.102	.029	.201	.100	.028	.188	.095	.027	.177	.091	.026	.167	.087	.025															
8.0	.192	.094	.026	.186	.092	.026	.175	.087	.025	.165	.083	.024	.155	.079	.023															
9.0	.179	.086	.024	.173	.084	.024	.163	.081	.023	.154	.077	.022	.145	.073	.021															
10.0	.167	.080	.022	.162	.078	.022	.153	.075	.021	.144	.072	.020	.136	.068	.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	.300	.300	.300	.256	.256	.256	.175	.175	.175	.100	.100	.100	.032	.032	.032	
1.0	.296	.266	.238	.254	.228	.205	.173	.157	.142	.100	.091	.082	.032	.029	.027	
2.0	.290	.243	.203	.248	.209	.176	.170	.145	.123	.098	.084	.072	.031	.027	.023	
3.0	.282	.226	.182	.242	.195	.157	.166	.136	.110	.096	.079	.065	.031	.026	.021	
4.0	.274	.214	.167	.235	.185	.145	.162	.129	.102	.094	.075	.061	.030	.025	.020	
5.0	.266	.204	.157	.229	.176	.137	.158	.123	.097	.091	.072	.057	.029	.024	.019	
6.0	.259	.196	.150	.222	.169	.131	.153	.119	.093	.089	.070	.055	.029	.023	.018	
7.0	.252	.189	.145	.216	.164	.127	.150	.115	.090	.087	.068	.053	.028	.022	.018	
8.0	.245	.183	.141	.211	.159	.123	.146	.112	.087	.085	.066	.052	.027	.022	.017	
9.0	.238	.179	.138	.205	.155	.121	.142	.109	.086	.083	.064	.051	.027	.021	.017	
10.0	.232	.174	.136	.200	.151	.118	.139	.107	.084	.081	.063	.050	.026	.021	.017	

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:0.5542A P:13.30W PF:1.000 Freq:0Hz Lamp Flux:858.32x1 lm										
NAME: DLS-LG3030(B)KDXSS1008					TYPE:			WEIGHT:		
SPEC.:DLS-LG3030(B)KDXSS1008-F15NW9X-CC					DIM.: 1008*30*30mm			SERIAL No.:01		
MFR.: Colors					SUR.:1008*30			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	20.2	21.6	20.7	22.1	22.6	18.6	20.1	19.1	20.5	21.0
3H	23.1	24.4	23.6	24.9	25.5	20.3	21.6	20.8	22.1	22.6
4H	24.8	26.0	25.3	26.5	27.1	20.9	22.2	21.4	22.7	23.2
6H	26.6	27.8	27.1	28.3	28.9	21.4	22.6	21.9	23.1	23.7
8H	27.6	28.7	28.1	29.3	29.9	21.6	22.7	22.1	23.2	23.8
12H	28.7	29.8	29.3	30.4	31.0	21.6	22.8	22.2	23.3	23.9
4H 2H	20.8	22.1	21.3	22.6	23.1	19.7	20.9	20.2	21.4	22.0
3H	23.9	25.0	24.5	25.6	26.2	21.6	22.7	22.1	23.2	23.8
4H	25.7	26.7	26.3	27.3	27.9	22.4	23.5	23.0	24.0	24.7
6H	27.7	28.6	28.3	29.2	29.9	23.1	24.0	23.7	24.6	25.3
8H	28.8	29.7	29.4	30.3	31.0	23.4	24.2	24.0	24.8	25.5
12H	30.1	30.9	30.8	31.5	32.3	23.6	24.4	24.2	25.0	25.7
8H 4H	26.0	26.9	26.6	27.5	28.2	23.4	24.2	24.0	24.8	25.5
6H	28.3	29.0	28.9	29.6	30.4	24.4	25.2	25.1	25.8	26.5
8H	29.6	30.2	30.2	30.9	31.6	24.9	25.5	25.6	26.2	27.0
12H	31.1	31.7	31.8	32.4	33.2	25.3	25.8	26.0	26.5	27.3
12H 4H	26.0	26.8	26.6	27.4	28.1	23.7	24.5	24.3	25.1	25.8
6H	28.4	29.0	29.0	29.7	30.4	24.9	25.6	25.6	26.2	27.0
8H	29.8	30.3	30.4	31.0	31.8	25.6	26.1	26.2	26.8	27.6
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					+ 0.2 / - 0.4				

CIE Pub.117, 858.3 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.5)

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:0.5542A P:13.30W PF:1.000 Freq:0Hz Lamp Flux:858.32x1 lm		
NAME: DLS-LG3030(B)KDXSS1008	TYPE:	WEIGHT:
SPEC.:DLS-LG3030(B)KDXSS1008-F15NW9X-CC	DIM.: 1008*30*30mm	SERIAL No.:01
MFR.: Colors	SUR.:1008*30	Shielding Angle:

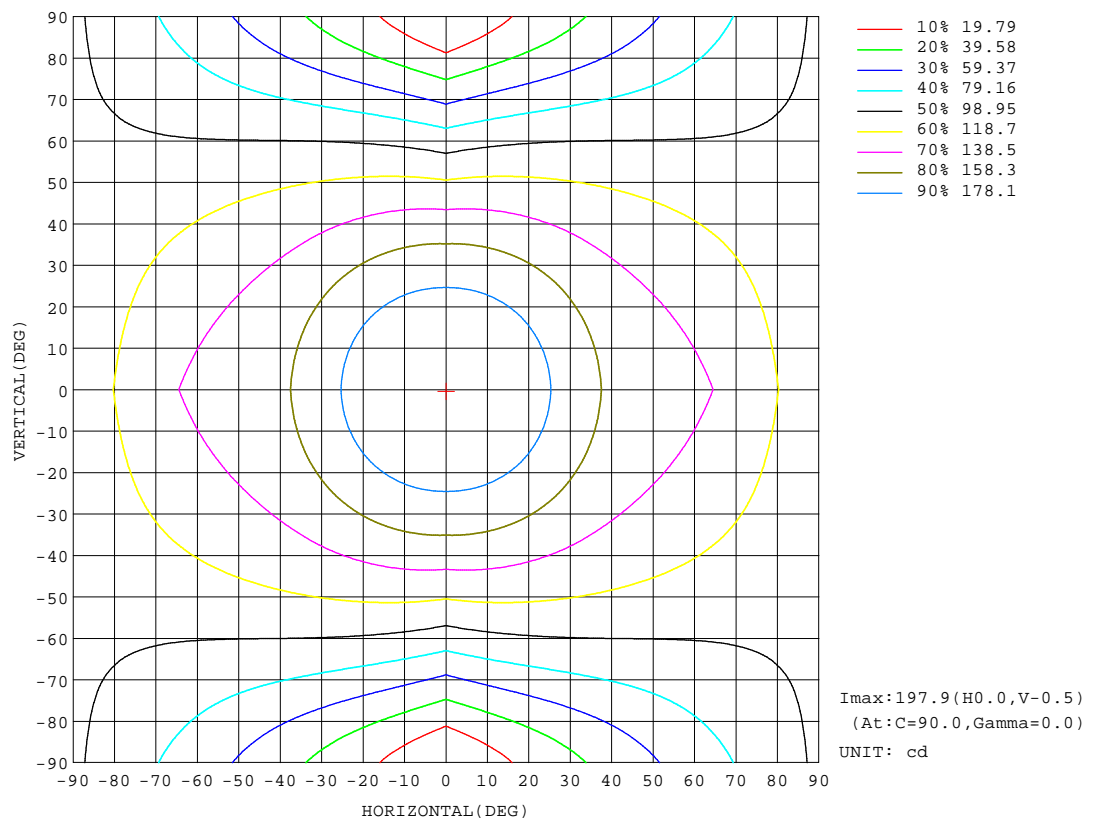
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	48	36	29	47	36	28	46	35	28	21
0.80	58	44	36	56	44	36	54	43	35	28
1.00	65	52	44	64	51	43	60	52	42	34
1.25	72	59	51	70	58	50	66	56	49	40
1.50	77	65	56	75	64	55	70	61	54	44
2.00	85	73	65	82	72	64	77	68	61	51
2.50	89	79	71	86	77	69	80	73	66	55
3.00	93	83	76	90	81	74	84	77	71	58
4.00	98	90	83	94	87	81	88	82	77	63
5.00	101	94	88	97	91	85	90	85	81	67
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:0.5542A P:13.30W PF:1.000 Freq:0Hz Lamp Flux:858.32x1 lm		
NAME: DLS-LG3030(B)KDXSS1008	TYPE:	WEIGHT:
SPEC.:DLS-LG3030(B)KDXSS1008-F15NW9X-CC	DIM.: 1008*30*30mm	SERIAL No.:01
MFR.: Colors	SUR.:1008*30	Shielding Angle:



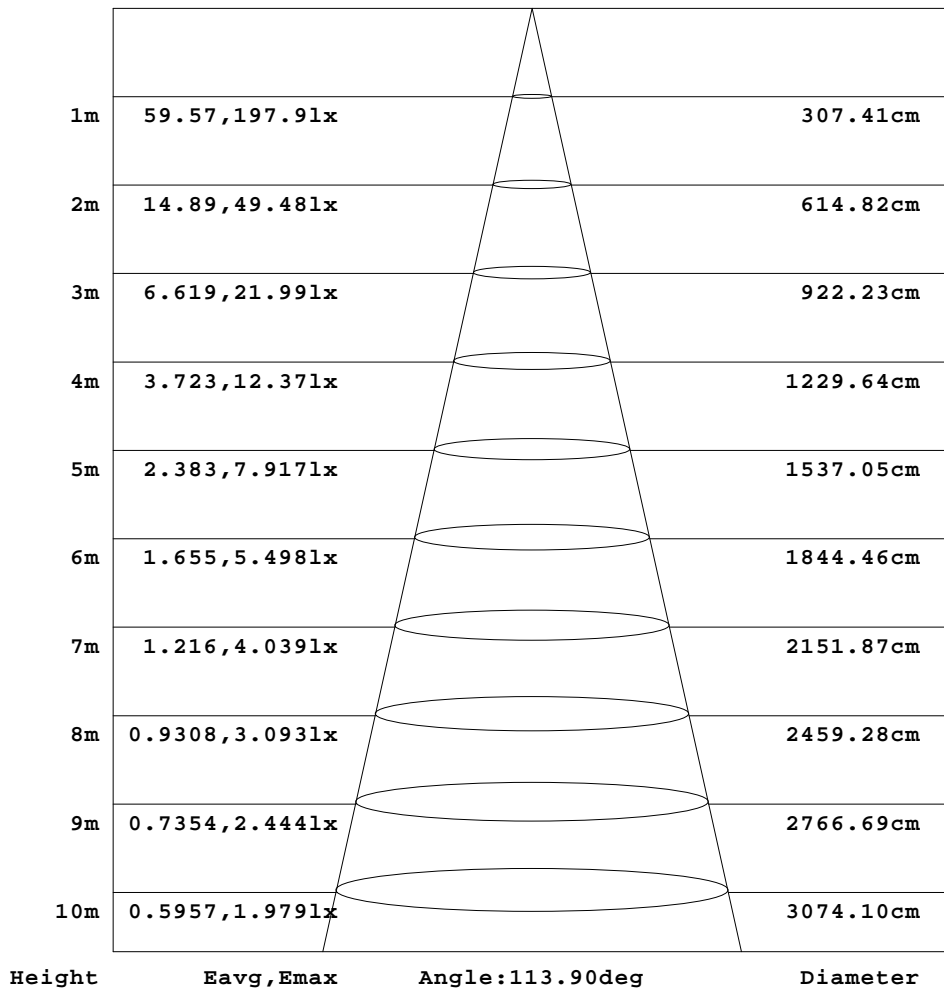
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2018-10-16

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:0.5542A P:13.30W PF:1.000 Freq:0Hz Lamp Flux:858.32x1 lm		
NAME: DLS-LG3030(B)KDXSS1008	TYPE:	WEIGHT:
SPEC.:DLS-LG3030(B)KDXSS1008-F15NW9X-CC	DIM.: 1008*30*30mm	SERIAL No.:01
MFR.: Colors	SUR.:1008*30	Shielding Angle:

Flux out:443.8 lm



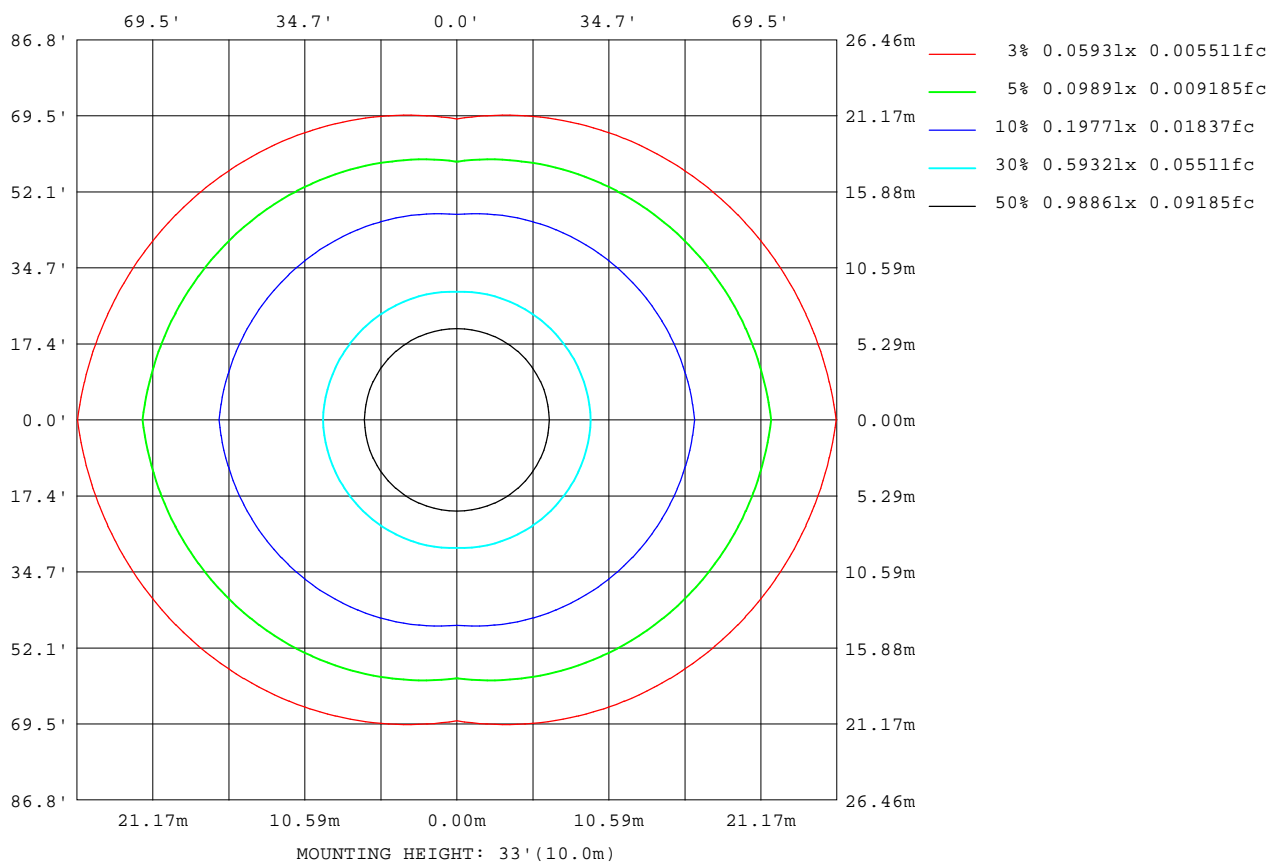
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 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:0.5542A P:13.30W PF:1.000 Freq:0Hz Lamp Flux:858.32x1 lm		
NAME: DLS-LG3030(B)KDXSS1008	TYPE:	WEIGHT:
SPEC.:DLS-LG3030(B)KDXSS1008-F15NW9X-CC	DIM.: 1008*30*30mm	SERIAL No.:01
MFR.: Colors	SUR.:1008*30	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:0.5542A P:13.30W PF:1.000 Freq:0Hz Lamp Flux:858.32x1 lm		
NAME: DLS-LG3030(B)KDXSS1008	TYPE:	WEIGHT:
SPEC.:DLS-LG3030(B)KDXSS1008-F15NW9X-CC	DIM.: 1008*30*30mm	SERIAL No.:01
MFR.: Colors	SUR.:1008*30	Shielding Angle:

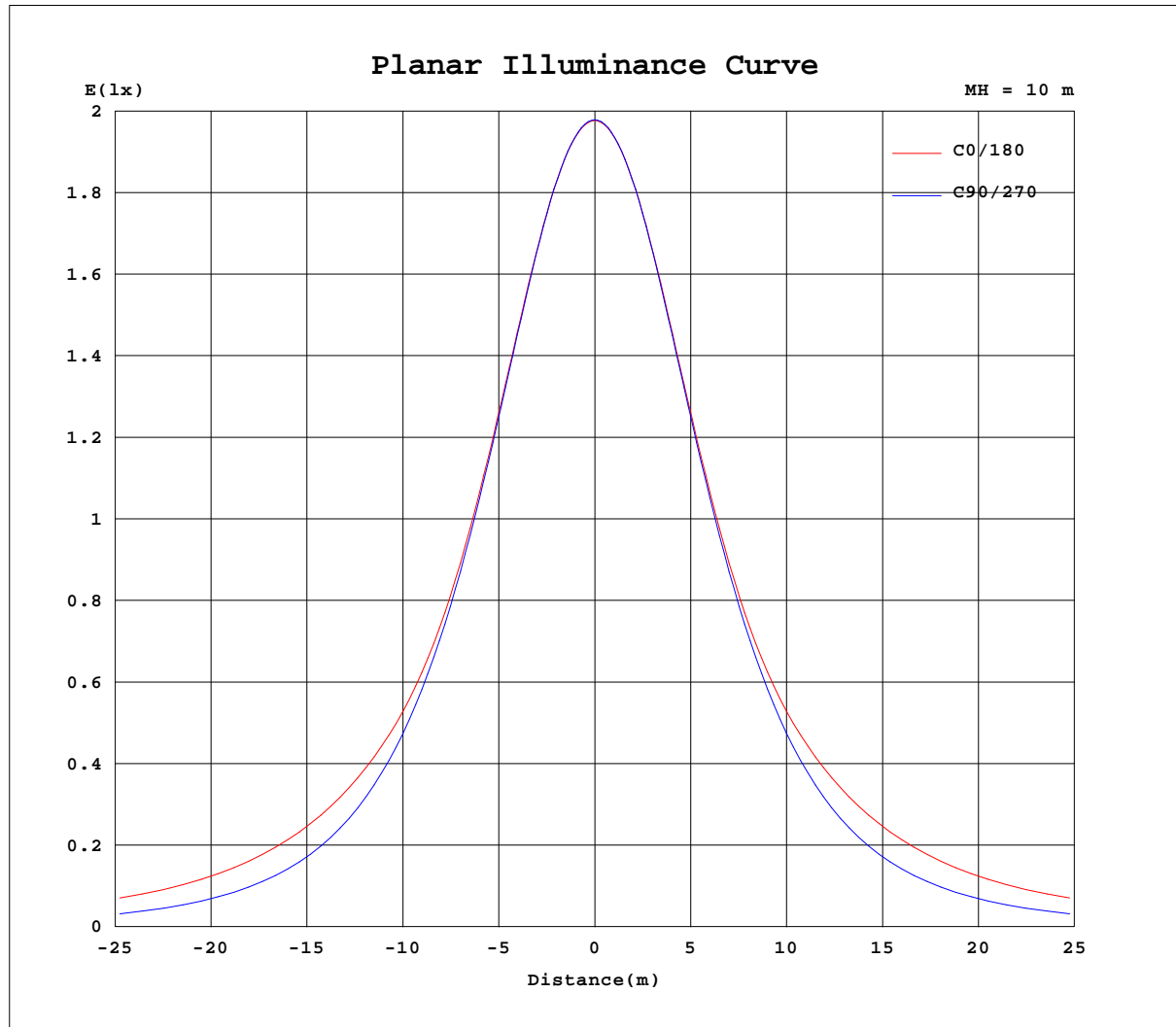
AvgL	cd/m2
L_0~180(65)av	10885
L_0~180(75)av	16285
L_0~180(85)av	42467
L_90~270(65)av	5713
L_90~270(75)av	4990
L_90~270(85)av	3958
L_45(65)av	7653
L_45(75)av	9226
L_45(85)av	18399

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:24.00V I:0.5542A P:13.30W PF:1.000 Freq:0Hz Lamp Flux:858.32x1 lm		
NAME: DLS-LG3030(B)KDXSS1008	TYPE:	WEIGHT:
SPEC.:DLS-LG3030(B)KDXSS1008-F15NW9X-CC	DIM.: 1008*30*30mm	SERIAL No.:01
MFR.: Colors	SUR.:1008*30	Shielding Angle:

Table--1

UNIT: cd

C(DEG) g (DEG)	0	90	180	270															
0	198	198	198	198															
5	197	197	197	197															
10	195	195	195	195															
15	191	190	191	190															
20	185	185	185	185															
25	179	177	179	177															
30	171	169	171	169															
35	162	159	162	159															
40	155	147	155	147															
45	150	134	150	134															
50	147	120	147	120															
55	145	105	145	105															
60	142	89.1	142	89.1															
65	138	72.4	138	72.4															
70	133	55.4	133	55.4															
75	126	38.7	126	38.7															
80	119	23.3	119	23.3															
85	111	10.3	111	10.3															
90	102	2.04	102	2.04															
95	92.3	0.32	92.3	0.32															
100	81.6	0.36	81.6	0.36															
105	70.1	0.42	70.1	0.42															
110	57.9	0.49	57.9	0.49															
115	45.2	0.54	45.2	0.54															
120	32.3	0.60	32.3	0.60															
125	19.9	0.66	19.9	0.66															
130	9.36	0.72	9.36	0.72															
135	2.86	0.78	2.86	0.78															
140	0.95	0.84	0.95	0.84															
145	0.96	0.88	0.96	0.88															
150	0.97	0.95	0.97	0.95															
155	0.99	0.98	0.99	0.98															
160	1.03	1.03	1.03	1.03															
165	1.05	1.07	1.05	1.07															
170	1.07	1.09	1.07	1.09															
175	1.09	1.09	1.09	1.09															
180	1.09	1.10	1.09	1.10															

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: