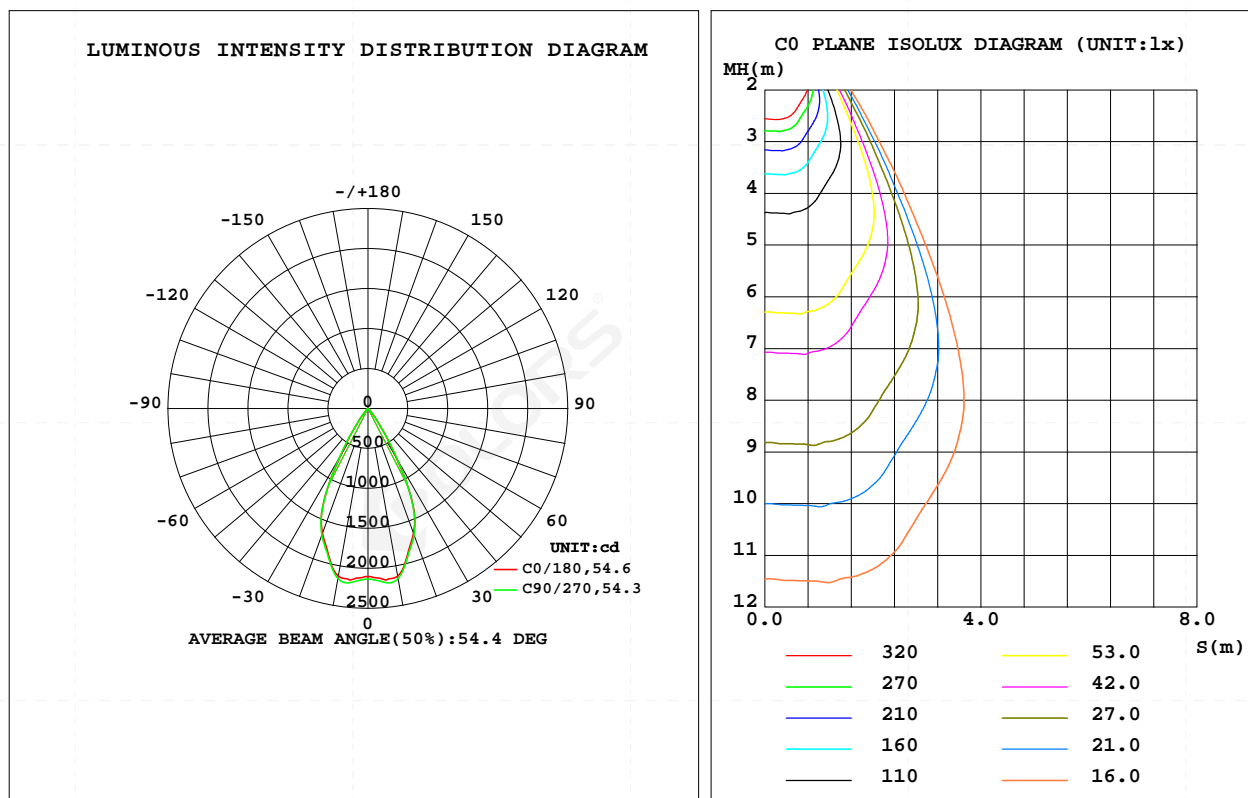


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.00V I:0.7814A P:18.75W PF:1.000 Freq:0Hz Lamp Flux:1562.53x1 lm		
NAME: LLS-LE25GHXS1100(A)-R20NW8X-DC	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: COLORS	SUR.:1100*25mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 83.33 lm/W			
MODEL		I _{max} (cd)	2197	S/MH(C0/180)	0.80
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	0.80
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	1562.5	h UP,DN(C0-180)	0.0,50.0
NOMINAL FLUX(lm)	1562.53	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,50.0
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	24	h down(%)	100.0	CIBSE SHR MAX	0.80



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-05-18

g 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:

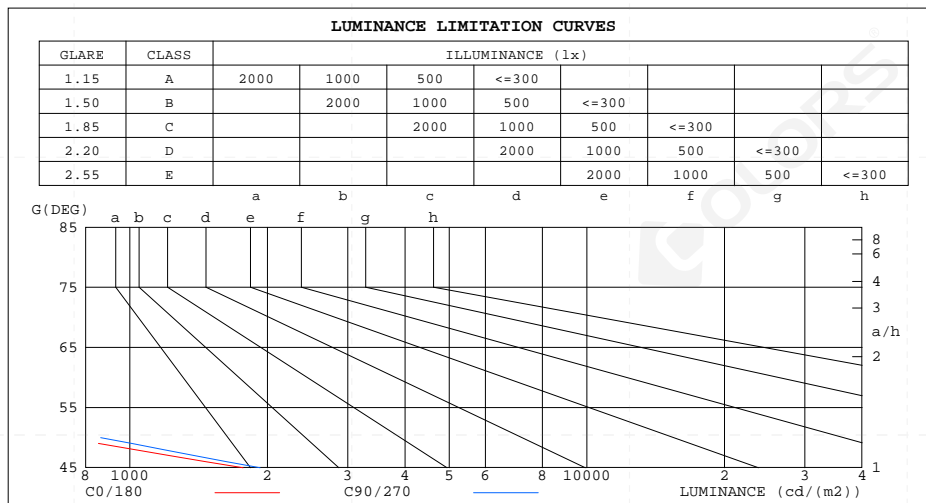
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	2129	2126	2161	2126	2129	2126	2161	2126	0- 10	205.0	205.0	13.1,13.1
20	1667	1671	1690	1671	1667	1671	1690	1671	10- 20	534.8	739.8	47.3,47.3
30	725.9	739.8	749.5	739.8	725.9	739.8	749.5	739.8	20- 30	580.4	1320	84.5,84.5
40	98.80	102.9	102.9	102.9	98.80	102.9	102.9	102.9	30- 40	202.5	1523	97.4,97.4
50	12.57	14.28	15.27	14.28	12.57	14.28	15.27	14.28	40- 50	32.82	1555	99.5,99.5
60	1.339	1.318	2.125	1.318	1.339	1.318	2.125	1.318	50- 60	5.246	1561	99.9,99.9
70	0.6545	0.4417	1.217	0.4417	0.6545	0.4417	1.217	0.4417	60- 70	0.9306	1562	99.9,99.9
80	0.4642	0.2320	0.8020	0.2320	0.4642	0.2320	0.8020	0.2320	70- 80	0.5875	1562	100,100
90	0	0	0	0	0	0	0	0	80- 90	0.3191	1563	100,100
100	0	0	0	0	0	0	0	0	90-100	0	1563	100,100
110	0	0	0	0	0	0	0	0	100-110	0	1563	100,100
120	0	0	0	0	0	0	0	0	110-120	0	1563	100,100
130	0	0	0	0	0	0	0	0	120-130	0	1563	100,100
140	0	0	0	0	0	0	0	0	130-140	0	1563	100,100
150	0	0	0	0	0	0	0	0	140-150	0	1563	100,100
160	0	0	0	0	0	0	0	0	150-160	0	1563	100,100
170	0	0	0	0	0	0	0	0	160-170	0	1563	100,100
180	0	0	0	0	0	0	0	0	170-180	0	1563	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:2021-05-18

g 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:

LUMINANCE LIMITATION CURVES

Test:U:24.00V I:0.7814A P:18.75W PF:1.000 Freq:0Hz Lamp Flux:1562.53x1 lm		
NAME: LLS-LE25GHXBS1100(A)-R20NW8X-DC	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: COLORS	SUR.:1100*25mm	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	178	209
80	97	168
75	78	147
70	70	129
65	71	127
60	97	155
55	280	388
50	711	864
45	1771	1926

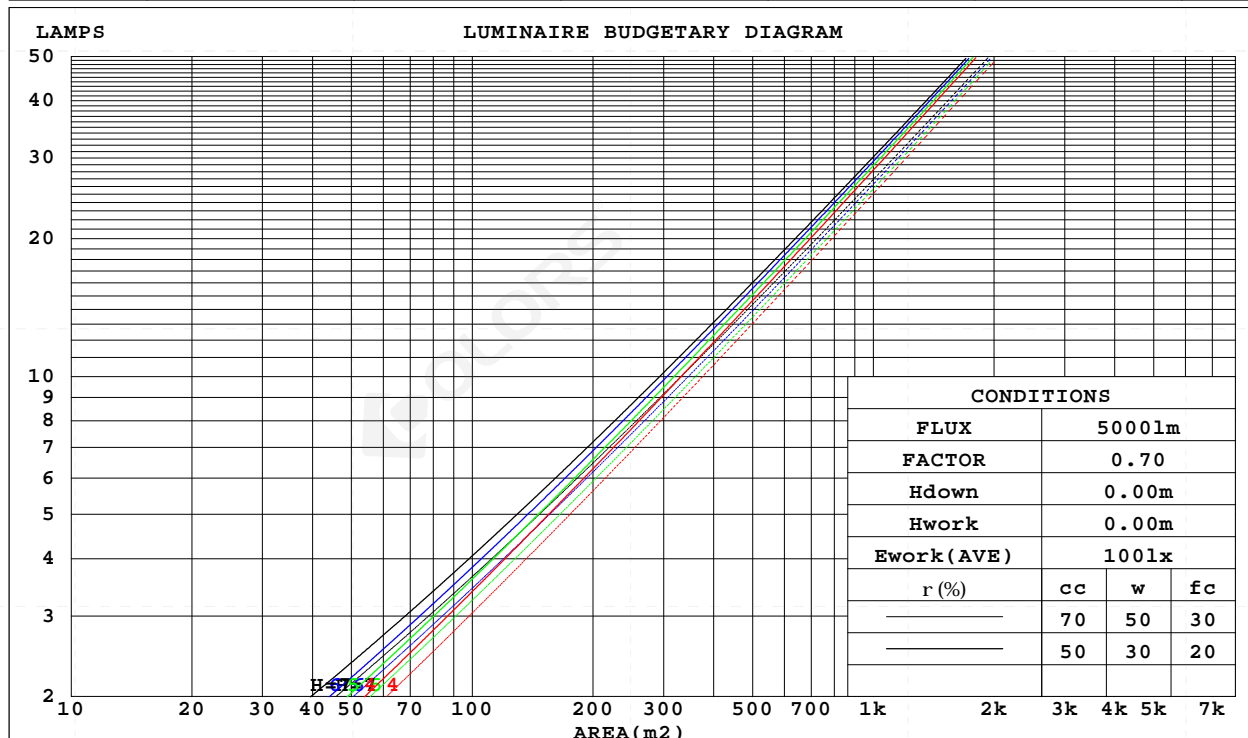
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-05-18

g 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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.00V I:0.7814A P:18.75W PF:1.000 Freq:0Hz Lamp Flux:1562.53x1 lm		
NAME: LLS-LE25GHXBS1100(A)-R20NW8X-DC	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: COLORS	SUR.:1100*25mm	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: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2021-05-18

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:0.7814A P:18.75W PF:1.000 Freq:0Hz Lamp Flux:1562.53x1 lm		
NAME: LLS-LE25GHXS1100(A)-R20NW8X-DC	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: COLORS	SUR.:1100*25mm	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	.165	.094	.030	.158	.090	.029	.146	.084	.027	.134	.077	.025	.123	.072	.023	
2.0	.156	.086	.026	.151	.083	.026	.140	.078	.024	.131	.073	.023	.122	.069	.022	
3.0	.149	.079	.024	.144	.077	.023	.135	.073	.022	.127	.069	.021	.119	.066	.020	
4.0	.141	.073	.022	.137	.072	.021	.130	.069	.021	.123	.066	.020	.116	.063	.019	
5.0	.135	.069	.020	.131	.067	.020	.125	.065	.019	.118	.063	.019	.113	.060	.018	
6.0	.129	.065	.018	.126	.063	.018	.120	.061	.018	.114	.059	.017	.109	.058	.017	
7.0	.123	.061	.017	.121	.060	.017	.115	.058	.017	.111	.057	.017	.106	.055	.016	
8.0	.118	.058	.016	.116	.057	.016	.111	.056	.016	.107	.054	.016	.103	.053	.015	
9.0	.114	.055	.015	.111	.054	.015	.107	.053	.015	.104	.052	.015	.100	.051	.015	
10.0	.109	.052	.015	.107	.052	.014	.104	.051	.014	.100	.050	.014	.097	.049	.014	

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.170	.157	.146	.146	.135	.126	.100	.093	.087	.057	.054	.050	.018	.017	.016	
2.0	.154	.133	.114	.132	.114	.099	.091	.079	.069	.052	.046	.040	.017	.015	.013	
3.0	.141	.113	.091	.121	.098	.079	.083	.068	.056	.048	.040	.033	.015	.013	.011	
4.0	.130	.099	.074	.112	.085	.065	.077	.059	.046	.044	.035	.027	.014	.011	.009	
5.0	.121	.087	.061	.104	.075	.053	.072	.052	.038	.042	.031	.022	.013	.010	.007	
6.0	.113	.077	.051	.098	.067	.045	.067	.047	.032	.039	.028	.019	.013	.009	.006	
7.0	.107	.070	.044	.092	.060	.038	.064	.042	.027	.037	.025	.016	.012	.008	.005	
8.0	.101	.063	.037	.087	.055	.033	.060	.039	.023	.035	.023	.014	.011	.007	.005	
9.0	.096	.058	.032	.083	.050	.028	.057	.035	.020	.033	.021	.012	.011	.007	.004	
10.0	.092	.054	.028	.079	.047	.025	.055	.033	.018	.032	.019	.010	.010	.006	.003	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-05-18

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:0.7814A P:18.75W PF:1.000 Freq:0Hz Lamp Flux:1562.53x1 lm											
NAME: LLS-LE25GHXS1100(A)-R20NW8X-DC					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.: COLORS					SUR.:1100*25mm			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	9.0	9.9	9.3	10.1	10.2	9.3	10.2	9.5	10.3	10.5	
	3H	8.9	9.7	9.1	9.9	10.1	9.1	9.9	9.4	10.1	
	4H	8.8	9.5	9.1	9.8	10.0	9.0	9.8	9.3	10.0	
	6H	8.7	9.4	9.0	9.6	9.9	9.0	9.7	9.3	9.9	
	8H	8.7	9.3	9.0	9.6	9.8	8.9	9.6	9.2	9.9	
	12H	8.6	9.3	8.9	9.5	9.8	8.9	9.5	9.2	9.8	
4H	2H	8.8	9.5	9.1	9.8	10.0	9.0	9.8	9.3	10.0	
	3H	8.6	9.3	8.9	9.5	9.8	8.9	9.5	9.2	9.8	
	4H	8.5	9.1	8.9	9.4	9.7	8.8	9.4	9.1	9.7	
	6H	8.4	8.9	8.8	9.3	9.6	8.7	9.2	9.1	9.5	
	8H	8.4	8.9	8.8	9.2	9.6	8.6	9.1	9.0	9.5	
	12H	8.3	8.8	8.7	9.1	9.5	8.6	9.0	9.0	9.4	
8H	4H	8.4	8.9	8.8	9.2	9.6	8.6	9.1	9.0	9.5	
	6H	8.3	8.7	8.7	9.1	9.5	8.5	8.9	9.0	9.3	
	8H	8.2	8.6	8.7	9.0	9.4	8.5	8.8	8.9	9.2	
	12H	8.2	8.5	8.6	8.9	9.4	8.4	8.7	8.9	9.2	
12H	4H	8.3	8.8	8.7	9.1	9.5	8.6	9.0	9.0	9.4	
	6H	8.2	8.6	8.7	9.0	9.4	8.5	8.8	8.9	9.2	
	8H	8.2	8.5	8.6	8.9	9.4	8.4	8.7	8.9	9.2	
Variations with the observer position at spacings:											
S = 1.0H		+ 4.0 / -15.4				+ 4.0 / -13.3					
1.5H		+ 6.4 / -12.6				+ 6.4 / -11.5					
2.0H		+ 6.8 / - 9.2				+ 6.6 / - 7.6					

CIE Pub.117, 1563 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 1.6$)

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-05-18

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:0.7814A P:18.75W PF:1.000 Freq:0Hz Lamp Flux:1562.53x1 lm		
NAME: LLS-LE25GHXBS1100(A)-R20NW8X-DC	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: COLORS	SUR.:1100*25mm	Shielding Angle:

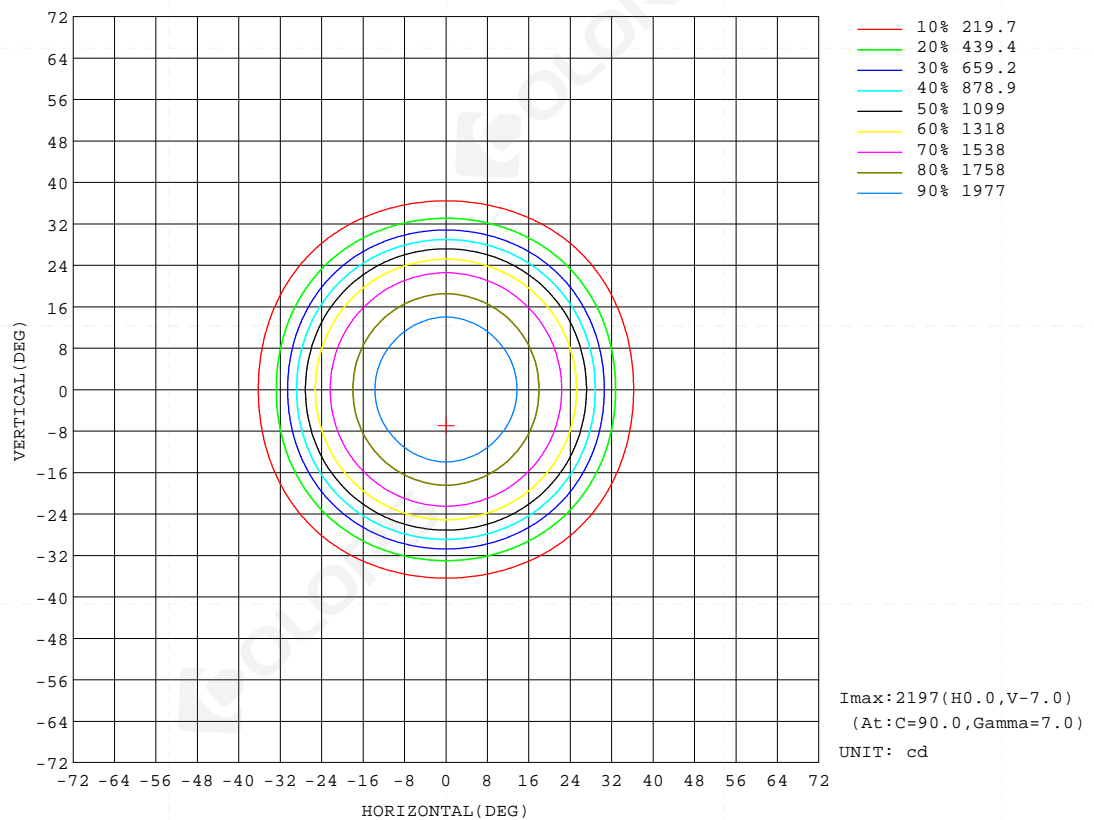
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	90	84	81	89	84	80	89	84	80	77
0.80	97	92	88	96	91	88	95	91	88	84
1.00	101	96	93	100	95	92	99	95	92	88
1.25	105	100	97	104	99	96	102	98	96	92
1.50	107	103	100	106	102	99	104	101	98	94
2.00	110	106	103	108	105	102	105	103	100	95
2.50	111	108	105	109	106	104	106	104	102	96
3.00	112	109	107	111	108	106	107	105	103	97
4.00	114	112	110	112	110	108	109	107	106	99
5.00	116	113	112	113	112	110	110	108	107	100
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:2021-05-18

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:0.7814A P:18.75W PF:1.000 Freq:0Hz Lamp Flux:1562.53x1 lm		
NAME: LLS-LE25GHXS1100(A)-R20NW8X-DC	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: COLORS	SUR.:1100*25mm	Shielding Angle:



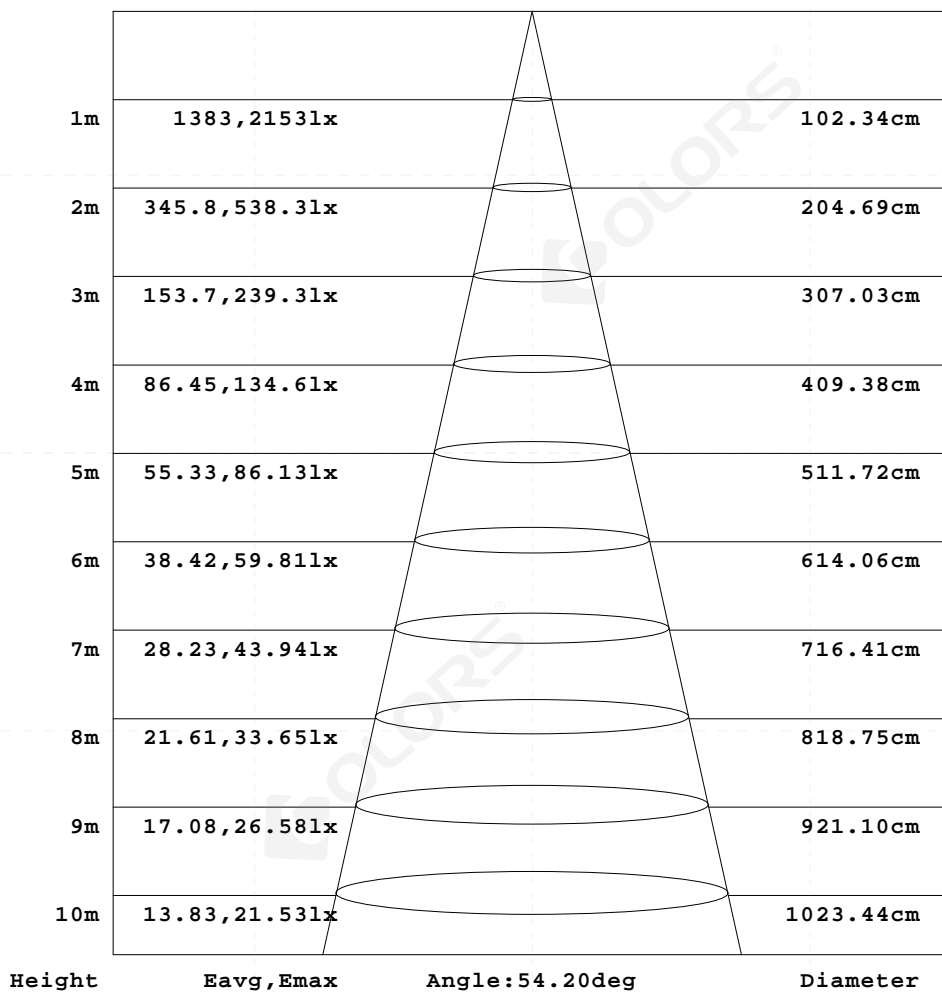
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-05-18

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:0.7814A P:18.75W PF:1.000 Freq:0Hz Lamp Flux:1562.53x1 lm		
NAME: LLS-LE25GHXBS1100(A)-R20NW8X-DC	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: COLORS	SUR.:1100*25mm	Shielding Angle:

Flux out:1229 lm



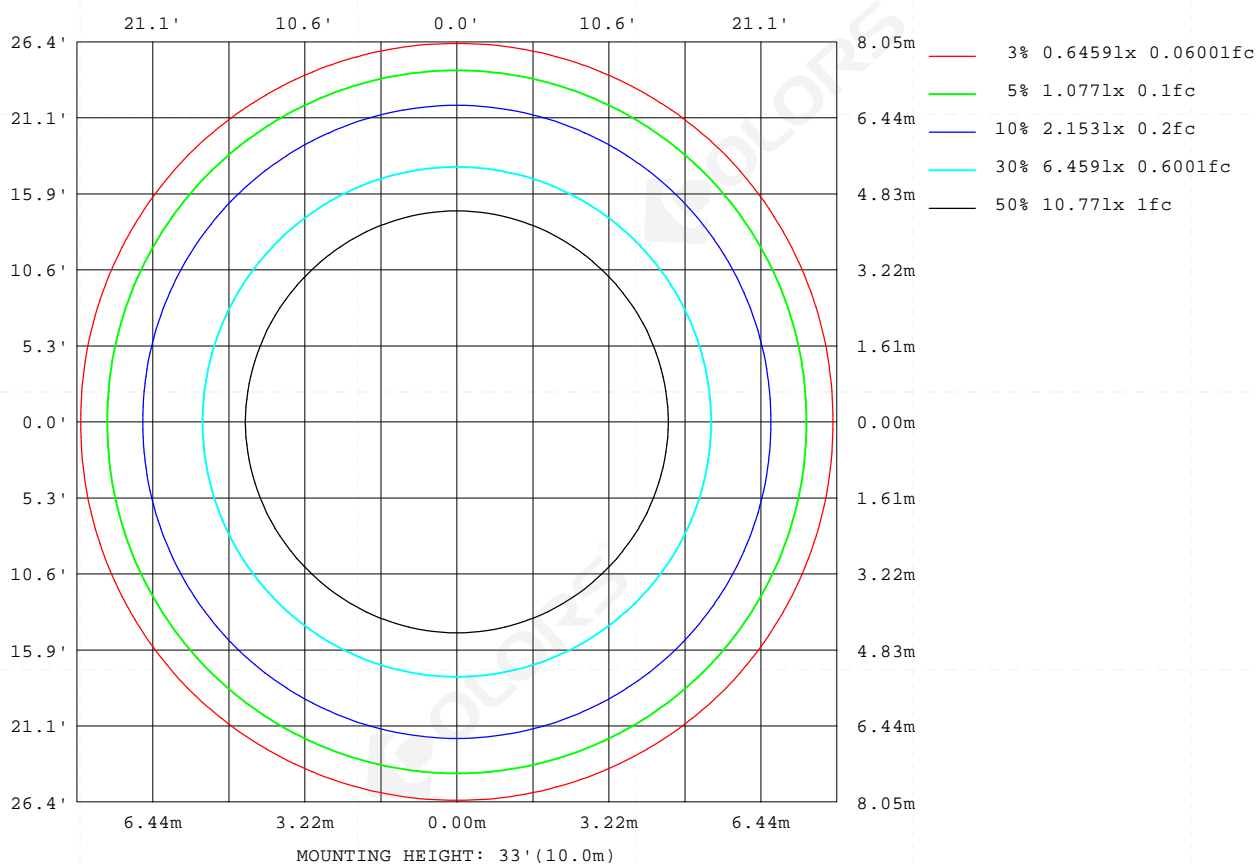
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-05-18

g 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:

ISOLUX DIAGRAM

Test:U:24.00V I:0.7814A P:18.75W PF:1.000 Freq:0Hz Lamp Flux:1562.53x1 lm		
NAME: LLS-LE25GHXS1100(A)-R20NW8X-DC	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: COLORS	SUR.:1100*25mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-05-18

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:

LED Avg.L Report

Test:U:24.00V I:0.7814A P:18.75W PF:1.000 Freq:0Hz Lamp Flux:1562.53x1 lm		
NAME: LLS-LE25GHXS1100(A)-R20NW8X-DC	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: COLORS	SUR.:1100*25mm	Shielding Angle:

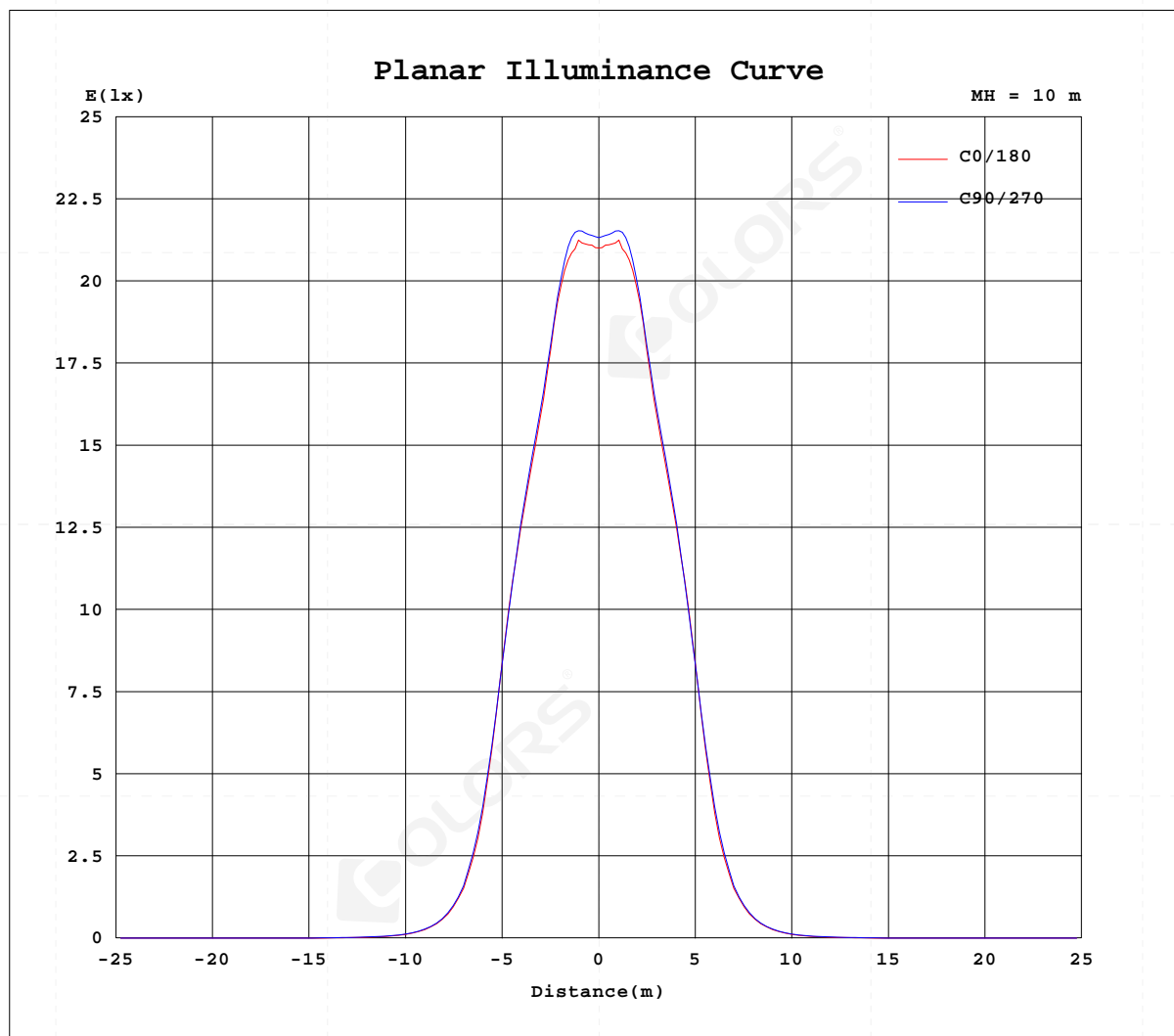
AvgL	cd/m2
L_0~180(65)av	71
L_0~180(75)av	78
L_0~180(85)av	178
L_90~270(65)av	127
L_90~270(75)av	147
L_90~270(85)av	209
L_45(65)av	54
L_45(75)av	44
L_45(85)av	60

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-05-18

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: 2021-05-18

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.7814A P:18.75W PF:1.000 Freq:0Hz Lamp Flux:1562.53x1 lm		
NAME: LLS-LE25GHXBS1100(A)-R20NW8X-DC	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: COLORS	SUR.:1100*25mm	Shielding Angle:

Table--1

UNIT: cd

C(DEG) g (DEG)	0	45	90	135	180	225	270	315										
0	2101	2090	2133	2090	2101	2090	2133	2090										
5	2141	2132	2177	2132	2141	2132	2177	2132										
10	2129	2126	2161	2126	2129	2126	2161	2126										
15	1902	1908	1923	1908	1902	1908	1923	1908										
20	1667	1671	1690	1671	1667	1671	1690	1671										
25	1343	1324	1333	1324	1343	1324	1333	1324										
30	726	740	749	740	726	740	749	740										
35	277	293	290	293	277	293	290	293										
40	98.8	103	103	103	98.8	103	103	103										
45	34.4	37.0	37.5	37.0	34.4	37.0	37.5	37.0										
50	12.6	14.3	15.3	14.3	12.6	14.3	15.3	14.3										
55	4.42	4.88	6.12	4.88	4.42	4.88	6.12	4.88										
60	1.34	1.32	2.13	1.32	1.34	1.32	2.13	1.32										
65	0.82	0.63	1.47	0.63	0.82	0.63	1.47	0.63										
70	0.65	0.44	1.22	0.44	0.65	0.44	1.22	0.44										
75	0.55	0.32	1.04	0.32	0.55	0.32	1.04	0.32										
80	0.46	0.23	0.80	0.23	0.46	0.23	0.80	0.23										
85	0.43	0.14	0.50	0.14	0.43	0.14	0.50	0.14										
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-05-18

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: