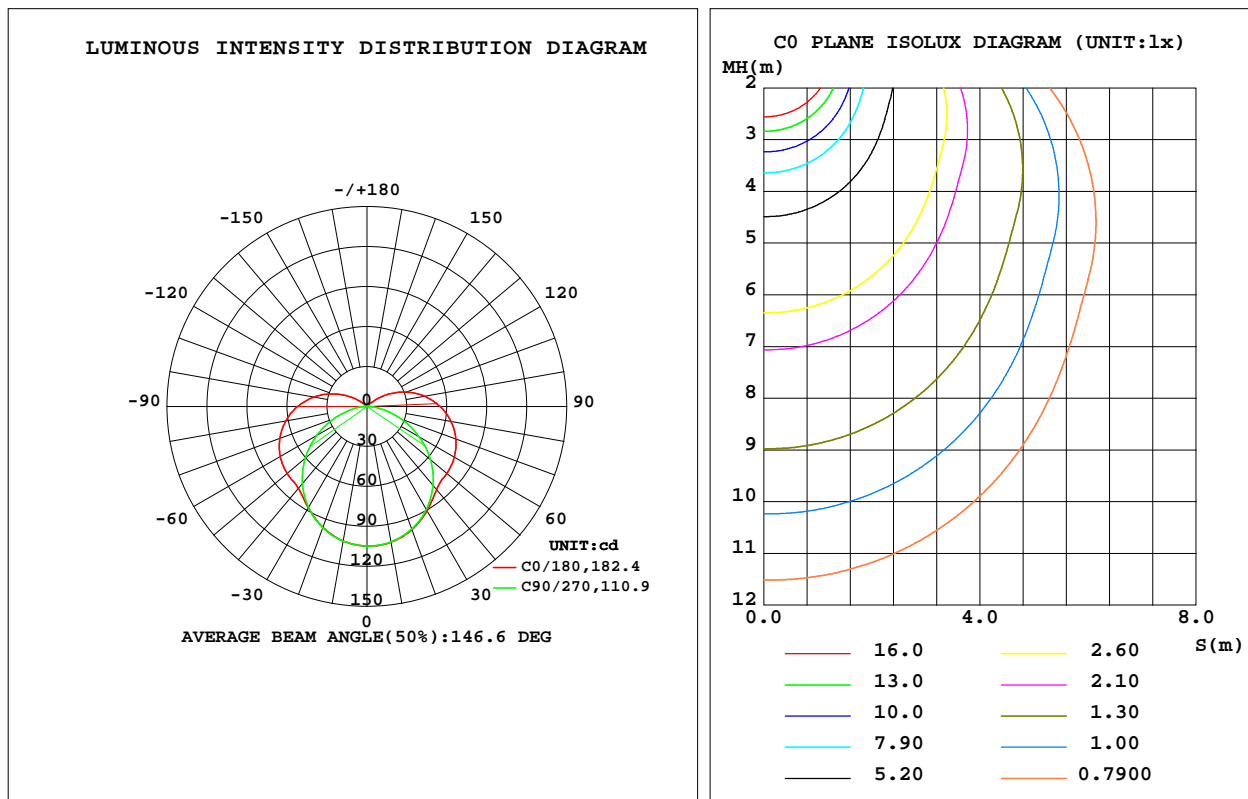


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.00V I:0.2725A P:6.539W PF:1.000 Freq:0Hz Lamp Flux:457.316x1 lm		
NAME: DLS-LG1616KDXSS1000	TYPE:	WEIGHT:
SPEC.:DLS-LG1616KDXSS1000-F7NW9X-DC	DIM.: 1000*16*16mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*16	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 69.93 lm/W			
MODEL	DLS-LG1616KDXSS1000	I _{max} (cd)	104.9	S/MH(C0/180)	1.28
NOMINAL POWER(W)	7	LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	457.32	h UP,DN(C0-180)	7.6,43.1
NOMINAL FLUX(lm)	457.316	CIE CLASS	SEMI-D.	h UP,DN(C180-360)	6.9,42.4
LAMPS INSIDE	1	h up(%)	14.5	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	24	h down(%)	85.5	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-03-28

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:

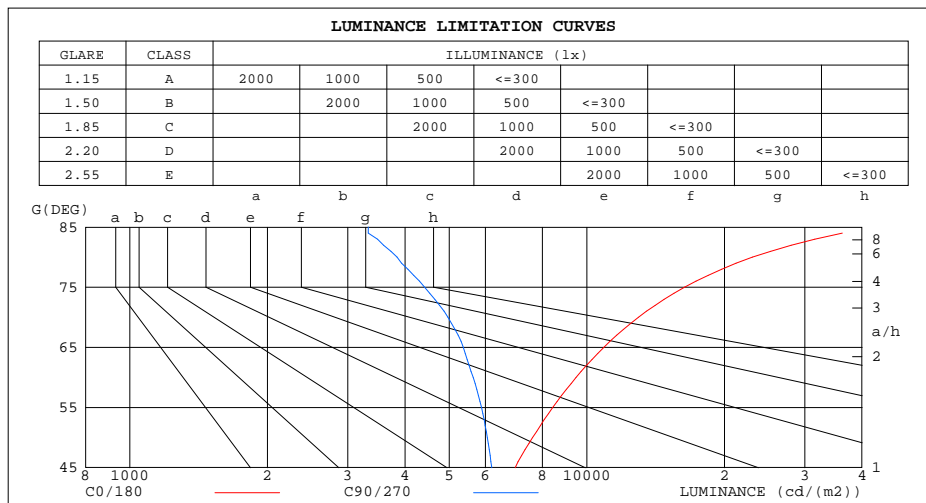
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	103.5	103.6	103.2	103.0	102.5	102.3	102.6	103.1	0- 10	9.918	9.918	2.17,2.17
20	98.43	98.71	97.98	97.33	96.57	96.33	96.84	97.76	10- 20	28.42	38.34	8.38,8.38
30	90.25	90.27	89.18	88.35	88.00	87.03	87.72	88.89	20- 30	43.08	81.42	17.8,17.8
40	81.47	79.17	77.17	76.92	80.23	75.84	75.43	77.57	30- 40	52.25	133.7	29.2,29.2
50	78.27	67.99	62.30	66.01	78.31	66.07	60.53	65.93	40- 50	56.36	190.0	41.6,41.6
60	75.78	61.78	45.13	59.79	75.18	60.67	43.62	58.64	50- 60	57.40	247.4	54.1,54.1
70	70.99	55.45	27.18	52.99	69.58	54.07	25.96	52.48	60- 70	55.24	302.7	66.2,66.2
80	64.00	47.20	10.68	44.55	61.81	45.66	10.37	44.56	70- 80	48.73	351.4	76.8,76.8
90	55.01	38.21	1.369	34.58	52.19	35.70	1.273	35.28	80- 90	39.56	391.0	85.5,85.5
100	44.24	28.24	0.5481	23.48	40.79	24.59	0.2477	20.81	90-100	29.92	420.9	92,92
110	31.91	16.53	0.5334	12.05	28.02	13.22	0.4543	13.13	100-110	19.75	440.6	96.4,96.4
120	18.74	5.583	0.7082	2.931	14.82	3.750	0.6548	3.981	110-120	10.26	450.9	98.6,98.6
130	6.626	1.162	0.9351	1.009	3.864	0.9086	0.8283	0.9087	120-130	3.471	454.4	99.4,99.4
140	1.432	1.176	1.075	1.122	1.129	1.049	0.9555	0.9485	130-140	1.074	455.4	99.6,99.6
150	1.396	1.222	1.195	1.303	1.229	1.255	1.116	1.042	140-150	0.7260	456.2	99.7,99.7
160	1.463	1.316	1.383	1.483	1.363	1.409	1.389	1.156	150-160	0.5952	456.8	99.9,99.9
170	1.570	1.510	1.583	1.630	1.383	1.576	1.623	1.490	160-170	0.4107	457.2	100,100
180	1.510	1.763	1.810	1.810	1.469	1.750	1.817	1.810	170-180	0.1528	457.3	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:2021-03-28

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:

LUMINANCE LIMITATION CURVES

Test:U:24.00V I:0.2725A P:6.539W PF:1.000 Freq:0Hz Lamp Flux:457.316x1 lm		
NAME: DLS-LG1616KDXSS1000	TYPE:	WEIGHT:
SPEC.:DLS-LG1616KDXSS1000-F7NW9X-DC	DIM.: 1000*16*16mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*16	Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	42839	3324
80	23034	3843
75	16365	4420
70	12973	4967
65	10892	5365
60	9473	5641
55	8423	5882
50	7611	6058
45	6973	6195

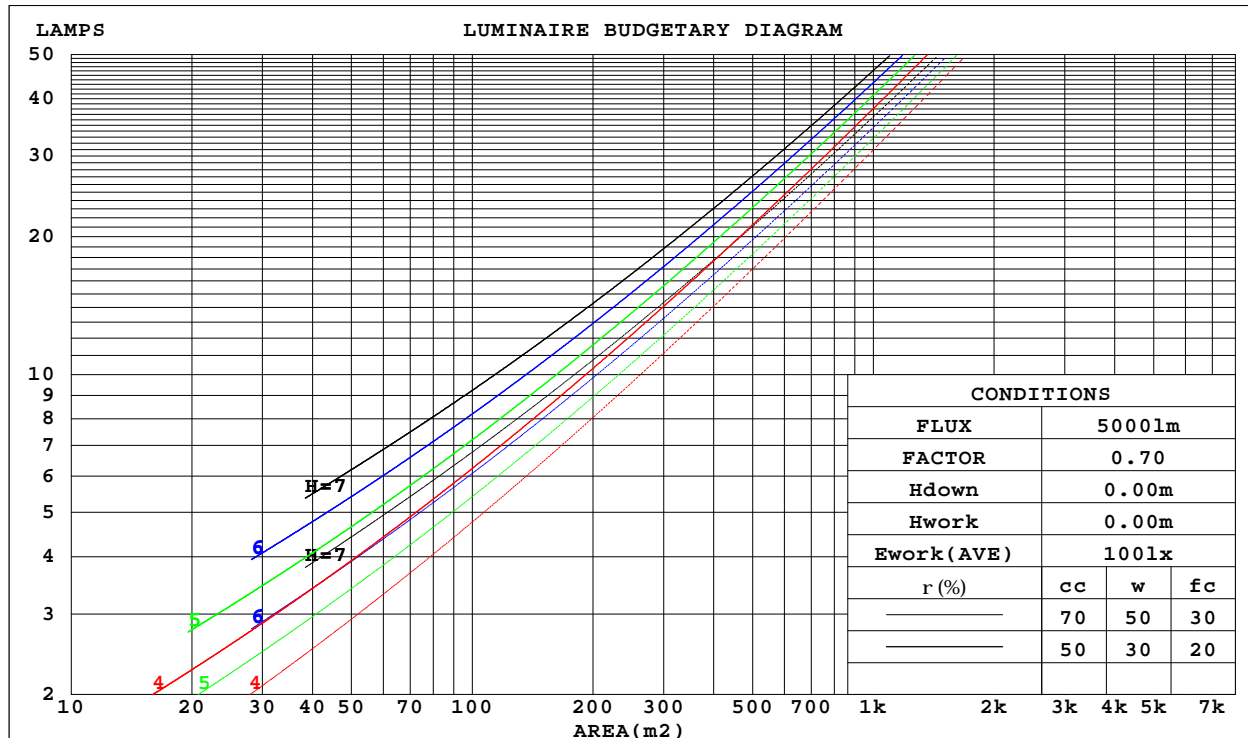
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-03-28

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.00V I:0.2725A P:6.539W PF:1.000 Freq:0Hz Lamp Flux:457.316x1 lm		
NAME: DLS-LG1616KDXSS1000	TYPE:	WEIGHT:
SPEC.:DLS-LG1616KDXSS1000-F7NW9X-DC	DIM.: 1000*16*16mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*16	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	1.16	1.16	1.16	1.11	1.11	1.11	1.03	1.03	1.03	.96	.96	.96	.89	.89	.89	.85
1.0	.96	.90	.85	.92	.87	.82	.85	.81	.77	.78	.75	.72	.72	.70	.67	.64
2.0	.81	.73	.66	.78	.71	.64	.72	.66	.61	.67	.62	.57	.61	.57	.54	.51
3.0	.70	.61	.54	.68	.59	.52	.63	.55	.50	.58	.52	.47	.53	.48	.44	.41
4.0	.62	.52	.45	.60	.51	.44	.55	.47	.41	.51	.45	.39	.47	.42	.37	.34
5.0	.55	.45	.38	.53	.44	.37	.49	.41	.35	.45	.39	.34	.42	.37	.32	.29
6.0	.49	.40	.33	.47	.39	.32	.44	.36	.31	.41	.34	.29	.38	.32	.28	.25
7.0	.44	.35	.29	.43	.34	.28	.40	.32	.27	.37	.31	.26	.35	.29	.25	.22
8.0	.40	.32	.25	.39	.31	.25	.36	.29	.24	.34	.28	.23	.32	.26	.22	.20
9.0	.37	.28	.23	.36	.28	.22	.34	.26	.21	.31	.25	.21	.29	.24	.20	.18
10.0	.34	.26	.20	.33	.25	.20	.31	.24	.19	.29	.23	.19	.27	.22	.18	.16



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-03-28

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:0.2725A P:6.539W PF:1.000 Freq:0Hz Lamp Flux:457.316x1 lm		
NAME: DLS-LG1616KDXSS1000	TYPE:	WEIGHT:
SPEC.:DLS-LG1616KDXSS1000-F7NW9X-DC	DIM.: 1000*16*16mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*16	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															

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	.301	.301	.301	.257	.257	.257	.176	.176	.176	.101	.101	.101	.032	.032	.032		
1.0	.298	.267	.238	.255	.229	.205	.175	.158	.142	.100	.091	.083	.032	.029	.027		
2.0	.292	.244	.204	.250	.210	.176	.171	.145	.123	.099	.084	.072	.032	.027	.023		
3.0	.284	.227	.182	.243	.196	.158	.167	.136	.111	.097	.080	.065	.031	.026	.021		
4.0	.276	.215	.168	.237	.186	.146	.163	.129	.103	.094	.076	.061	.030	.025	.020		
5.0	.268	.205	.158	.230	.177	.138	.159	.124	.097	.092	.073	.058	.030	.024	.019		
6.0	.260	.197	.151	.224	.171	.132	.154	.119	.093	.090	.070	.055	.029	.023	.018		
7.0	.253	.190	.146	.218	.165	.128	.150	.116	.090	.087	.068	.054	.028	.022	.018		
8.0	.246	.185	.142	.212	.160	.124	.147	.112	.088	.085	.066	.052	.028	.022	.017		
9.0	.240	.180	.139	.207	.156	.122	.143	.110	.086	.083	.065	.051	.027	.021	.017		
10.0	.234	.176	.137	.202	.153	.120	.140	.107	.085	.082	.063	.051	.026	.021	.017		

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2021-03-28

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:0.2725A P:6.539W PF:1.000 Freq:0Hz Lamp Flux:457.316x1 lm											
NAME: DLS-LG1616KDXSS1000						TYPE:			WEIGHT:		
SPEC.:DLS-LG1616KDXSS1000-F7NW9X-DC						DIM.: 1000*16*16mm			SERIAL No.:		
MFR.: COLORS						SUR.:1000*16			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	22.4	23.8	22.8	24.3	24.8	20.6	22.1	21.1	22.5	23.0	
	3H	25.4	26.7	25.9	27.2	27.7	22.3	23.6	22.8	24.1	24.6
	4H	27.0	28.3	27.6	28.8	29.4	22.9	24.2	23.5	24.7	25.3
	6H	28.9	30.1	29.4	30.6	31.2	23.4	24.6	24.0	25.1	25.7
	8H	29.9	31.0	30.4	31.6	32.2	23.6	24.7	24.1	25.3	25.9
	12H	31.0	32.2	31.6	32.7	33.3	23.7	24.8	24.2	25.3	25.9
4H	2H	23.0	24.3	23.6	24.8	25.4	21.8	23.1	22.3	23.6	24.1
	3H	26.2	27.4	26.8	27.9	28.5	23.8	24.9	24.4	25.5	26.1
	4H	28.1	29.1	28.7	29.7	30.3	24.7	25.8	25.3	26.3	27.0
	6H	30.1	31.0	30.7	31.6	32.3	25.4	26.4	26.1	27.0	27.7
	8H	31.2	32.1	31.9	32.7	33.4	25.7	26.6	26.3	27.2	27.9
	12H	32.5	33.3	33.2	34.0	34.7	25.9	26.7	26.5	27.4	28.1
8H	4H	28.5	29.4	29.1	30.0	30.7	25.9	26.8	26.5	27.4	28.1
	6H	30.8	31.6	31.5	32.2	32.9	27.1	27.8	27.7	28.5	29.2
	8H	32.1	32.8	32.8	33.5	34.2	27.6	28.3	28.3	29.0	29.7
	12H	33.7	34.3	34.4	34.9	35.7	28.1	28.7	28.7	29.3	30.1
12H	4H	28.5	29.4	29.2	30.0	30.7	26.3	27.1	26.9	27.7	28.4
	6H	31.0	31.6	31.6	32.3	33.1	27.7	28.4	28.4	29.1	29.8
	8H	32.4	33.0	33.1	33.7	34.4	28.5	29.1	29.2	29.7	30.5
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					+ 0.3 / - 0.4					

CIE Pub.117, 457.3 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.7)

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-03-28

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:0.2725A P:6.539W PF:1.000 Freq:0Hz Lamp Flux:457.316x1 lm		
NAME: DLS-LG1616KDXSS1000	TYPE:	WEIGHT:
SPEC.:DLS-LG1616KDXSS1000-F7NW9X-DC	DIM.: 1000*16*16mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*16	Shielding Angle:

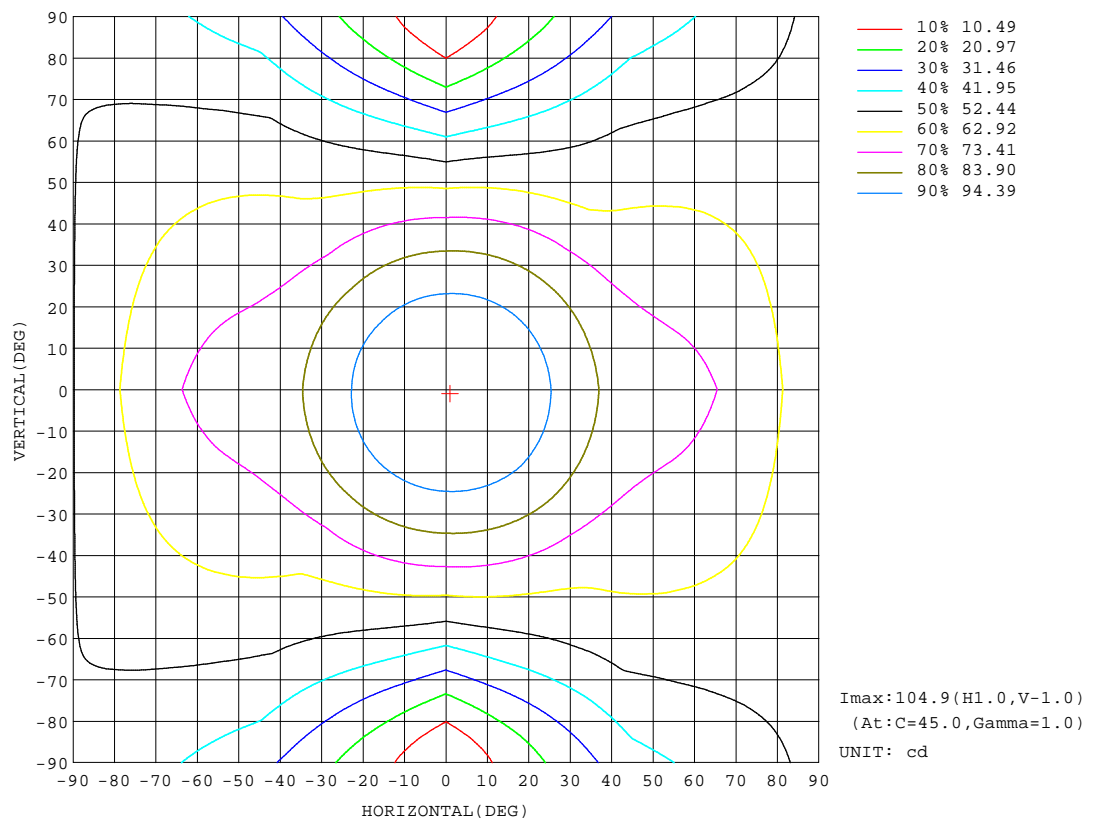
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	48	36	28	47	35	28	46	35	28	21
0.80	57	44	36	56	43	36	53	42	35	27
1.00	65	52	43	63	51	43	60	52	42	33
1.25	72	59	50	70	58	49	66	55	48	39
1.50	77	64	55	74	63	55	70	60	53	43
2.00	84	73	64	81	71	63	76	67	60	50
2.50	88	78	70	85	76	68	80	72	65	54
3.00	92	83	75	89	80	73	83	76	70	57
4.00	97	89	82	93	86	80	87	81	76	62
5.00	100	93	87	96	90	84	89	84	80	66
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:2021-03-28

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:0.2725A P:6.539W PF:1.000 Freq:0Hz Lamp Flux:457.316x1 lm		
NAME: DLS-LG1616KDXSS1000	TYPE:	WEIGHT:
SPEC.:DLS-LG1616KDXSS1000-F7NW9X-DC	DIM.: 1000*16*16mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*16	Shielding Angle:



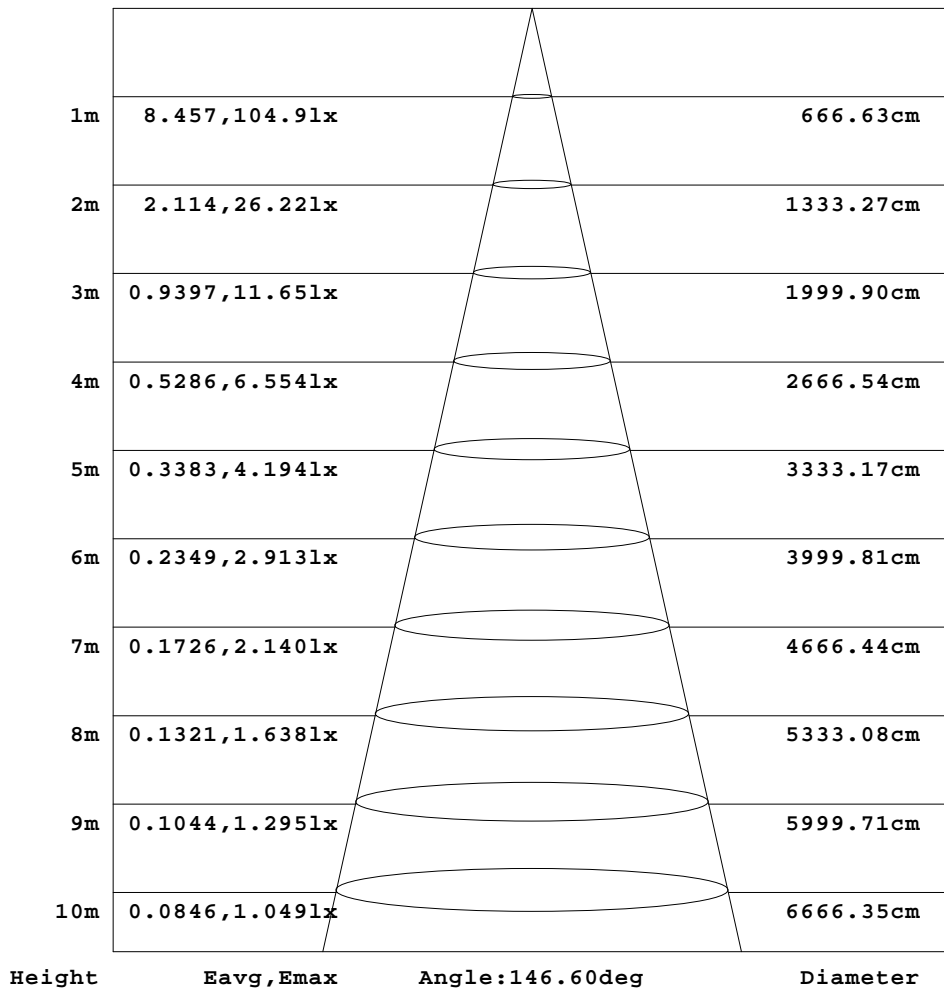
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-03-28

deg 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:0.2725A P:6.539W PF:1.000 Freq:0Hz Lamp Flux:457.316x1 lm		
NAME: DLS-LG1616KDXSS1000	TYPE:	WEIGHT:
SPEC.:DLS-LG1616KDXSS1000-F7NW9X-DC	DIM.: 1000*16*16mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*16	Shielding Angle:

Flux out:323.1 lm



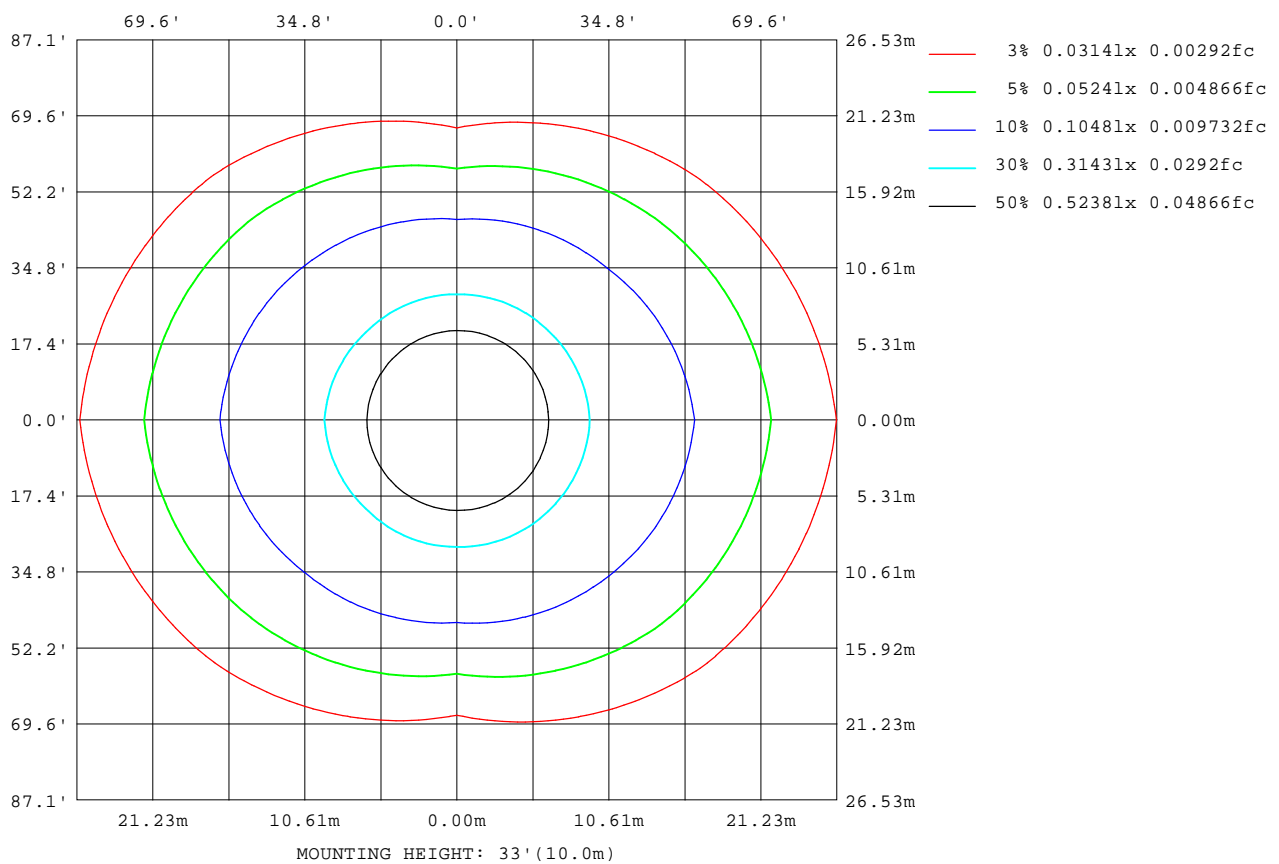
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-03-28

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:

ISOLUX DIAGRAM

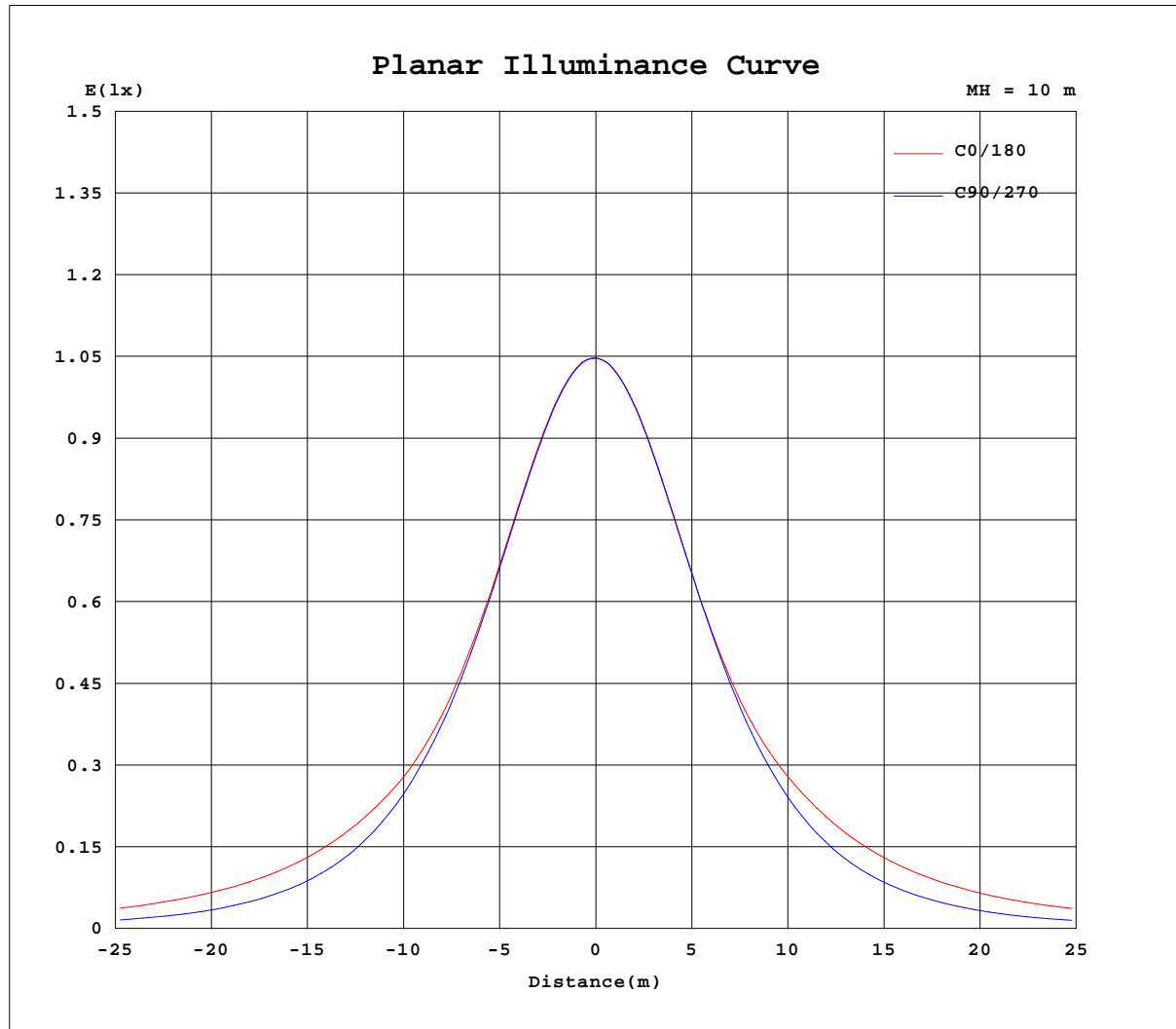
Test:U:24.00V I:0.2725A P:6.539W PF:1.000 Freq:0Hz Lamp Flux:457.316x1 lm		
NAME: DLS-LG1616KDXSS1000	TYPE:	WEIGHT:
SPEC.:DLS-LG1616KDXSS1000-F7NW9X-DC	DIM.: 1000*16*16mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*16	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2021-03-28

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: 2021-03-28

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:0.2725A P:6.539W PF:1.000 Freq:0Hz Lamp Flux:457.316x1 lm		
NAME: DLS-LG1616KDXSS1000	TYPE:	WEIGHT:
SPEC.:DLS-LG1616KDXSS1000-F7NW9X-DC	DIM.: 1000*16*16mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*16	Shielding Angle:

Table--1

UNIT: cd

C(DEG) g (DEG)	0	45	90	135	180	225	270	315										
0	105	105	105	105	105	105	105	105										
5	105	105	104	104	104	104	104	104										
10	103	104	103	103	102	102	103	103										
15	101	102	101	101	100	99.8	100	101										
20	98.4	98.7	98.0	97.3	96.6	96.3	96.8	97.8										
25	94.7	94.9	94.0	93.3	92.5	92.0	92.7	93.7										
30	90.3	90.3	89.2	88.3	88.0	87.0	87.7	88.9										
35	85.6	85.0	83.5	82.8	83.6	81.5	82.0	83.5										
40	81.5	79.2	77.2	76.9	80.2	75.8	75.4	77.6										
45	78.9	73.3	70.1	71.1	78.9	70.4	68.3	71.5										
50	78.3	68.0	62.3	66.0	78.3	66.1	60.5	65.9										
55	77.3	64.2	54.0	62.5	77.0	63.3	52.3	61.5										
60	75.8	61.8	45.1	59.8	75.2	60.7	43.6	58.6										
65	73.7	58.9	36.3	56.6	72.7	57.6	34.7	55.7										
70	71.0	55.4	27.2	53.0	69.6	54.1	26.0	52.5										
75	67.8	51.5	18.3	48.9	65.9	50.0	17.6	48.7										
80	64.0	47.2	10.7	44.5	61.8	45.7	10.4	44.6										
85	59.7	42.7	4.64	39.8	57.2	40.9	4.71	40.1										
90	55.0	38.2	1.37	34.6	52.2	35.7	1.27	35.3										
95	49.8	33.5	0.95	29.1	46.7	30.2	0.68	30.1										
100	44.2	28.2	0.55	23.5	40.8	24.6	0.25	20.8										
105	38.2	22.5	0.45	17.7	34.5	18.9	0.33	16.8										
110	31.9	16.5	0.53	12.0	28.0	13.2	0.45	13.1										
115	25.4	10.9	0.61	6.98	21.4	7.90	0.55	8.12										
120	18.7	5.58	0.71	2.93	14.8	3.75	0.65	3.98										
125	12.3	2.65	0.83	1.05	8.62	1.16	0.75	1.53										
130	6.63	1.16	0.94	1.01	3.86	0.91	0.83	0.91										
135	2.82	1.16	1.03	1.08	1.19	0.95	0.90	0.95										
140	1.43	1.18	1.08	1.12	1.13	1.05	0.96	0.95										
145	1.40	1.20	1.14	1.20	1.17	1.15	1.01	0.98										
150	1.40	1.22	1.19	1.30	1.23	1.26	1.12	1.04										
155	1.40	1.27	1.28	1.39	1.30	1.33	1.26	1.07										
160	1.46	1.32	1.38	1.48	1.36	1.41	1.39	1.16										
165	1.50	1.39	1.49	1.55	1.38	1.49	1.50	1.31										
170	1.57	1.51	1.58	1.63	1.38	1.58	1.62	1.49										
175	1.52	1.65	1.69	1.72	1.40	1.70	1.74	1.64										
180	1.51	1.76	1.81	1.81	1.47	1.75	1.82	1.81										

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-03-28

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: