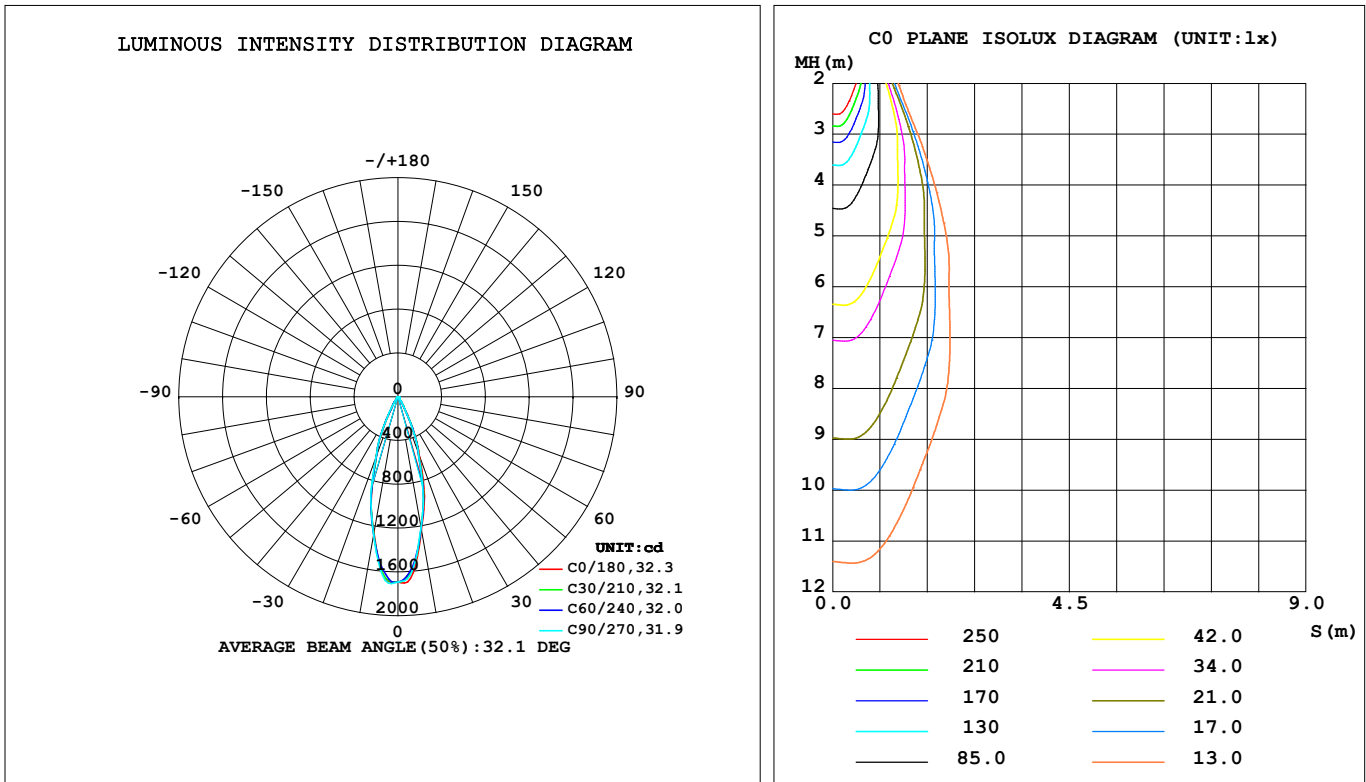


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.00V I:0.0490A P:11.000W PF:0.9780 Freq:50.00Hz Lamp Flux:601.782x1 lm		
NAME: SLDL280F-30SDP-BGDD11	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 54.71 lm/W
MODEL		I <sub>max</sub> (cd)	1717	S/MH (C0/180)		0.54
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)		0.55
RATED VOLTAGE (V)	230V	TOTAL FLUX (lm)	601.78	η UP,DN (C0-180)		0.0,49.0
NOMINAL FLUX (lm)	601.782	CIE CLASS	DIRECT	η UP,DN (C180-360)		0.0,51.0
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM		0.50
TEST VOLTAGE (V)		η down (%)	100.0	CIBSE SHR MAX		0.55



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Jason  
Test Date: 03 November 2020

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-i300\_v1 SYSTEM V2.0.401  
Humidity: 65.0%  
Test Distance: 3.160m [K=1.0000]  
Remarks:

### ZONAL FLUX DIAGRAM

#### ZONAL FLUX DIAGRAM:

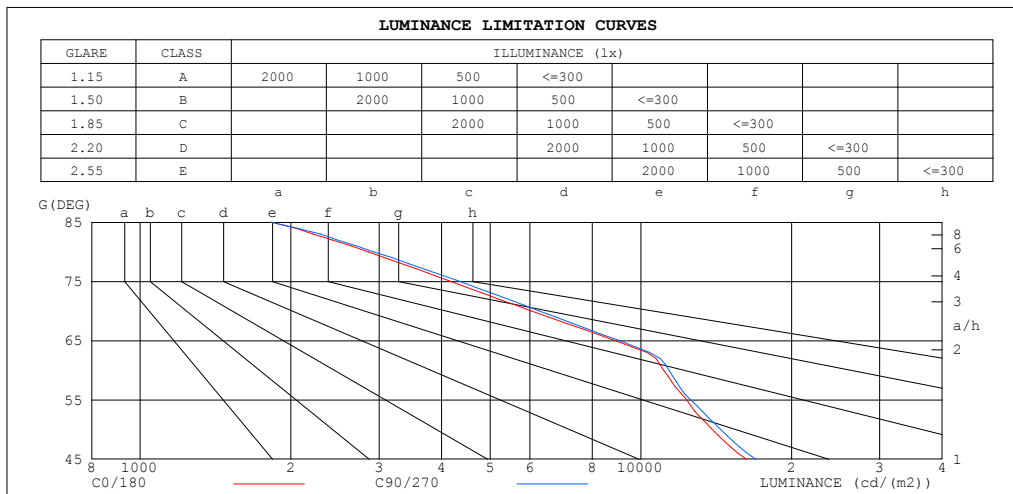
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	1241	1226	1217	1246	1264	1278	1283	1269	0- 10	140.9	140.9	23.4,23.4
20	578.6	549.6	551.5	582.2	589.9	579.2	594.4	595.9	10- 20	250.6	391.5	65.1,65.1
30	115.0	115.2	114.5	113.3	116.8	122.6	122.9	115.3	20- 30	148.4	539.9	89.7,89.7
40	22.56	23.23	23.94	23.44	22.62	23.88	23.32	23.01	30- 40	34.96	574.9	95.5,95.5
50	11.21	11.85	11.65	11.71	11.44	11.65	11.43	11.08	40- 50	12.01	586.9	97.5,97.5
60	6.981	7.318	7.152	7.310	7.101	7.225	7.090	6.823	50- 60	8.167	595.0	98.9,98.9
70	2.602	2.741	2.694	2.879	2.773	2.839	2.828	2.512	60- 70	4.873	599.9	99.7,99.7
80	0.6228	0.6442	0.6388	0.7065	0.6746	0.6862	0.6738	0.5775	70- 80	1.598	601.5	100,100
90	0	0	0	0	0.0007	0	0	0	80- 90	0.2655	601.8	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:03 November 2020

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-i300\_v1 SYSTEM V2.0.401  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.00V I:0.0490A P:11.000W PF:0.9780 Freq:50.00Hz Lamp Flux:601.782x1 lm		
NAME: SLDL280F-30SDP-BGDD11	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1827	1824
80	2855	2929
75	4169	4349
70	6058	6271
65	8879	9066
60	11115	11390
55	12346	12575
50	13888	14432
45	16255	16964

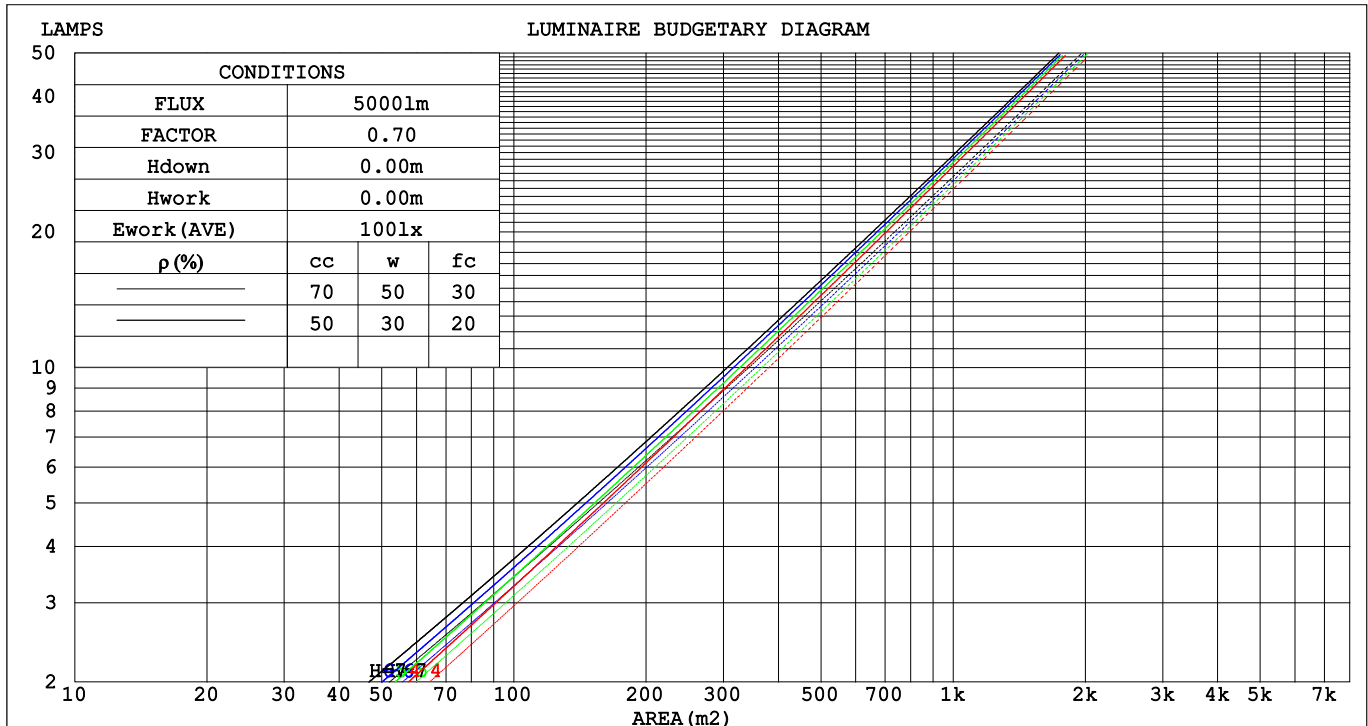
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Jason  
 Test Date: 03 November 2020

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-i300\_V1 SYSTEM V2.0.401  
 Humidity: 65.0%  
 Test Distance: 3.160m [K=1.0000]  
 Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.00V I:0.0490A P:11.000W PF:0.9780 Freq:50.00Hz Lamp Flux:601.782x1 lm		
NAME: SLDL280F-30SDP-BGDD11	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:03 November 2020

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-i300\_V1 SYSTEM V2.0.401  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks:

### WEC AND CCEC

Test:U:230.00V I:0.0490A P:11.000W PF:0.9780 Freq:50.00Hz Lamp Flux:601.782x1 lm																	
NAME: SLDL280F-30SDP-BGDD11									TYPE:						WEIGHT:		
SPEC.:									DIM.:						SERIAL No.:		
MFR.: Switch Lighting									SUR.:						Shielding Angle:		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.155	.088	.028	.148	.085	.027	.136	.078	.025	.124	.072	.023	.114	.066	.021	
2.0	.146	.080	.024	.140	.077	.024	.130	.072	.022	.120	.067	.021	.111	.063	.020	
3.0	.137	.073	.022	.132	.071	.021	.123	.067	.020	.115	.063	.019	.108	.060	.018	
4.0	.129	.067	.020	.125	.065	.019	.118	.062	.019	.111	.059	.018	.104	.057	.017	
5.0	.122	.062	.018	.119	.061	.018	.112	.058	.017	.106	.056	.017	.101	.054	.016	
6.0	.116	.058	.017	.113	.057	.016	.107	.055	.016	.102	.053	.016	.097	.051	.015	
7.0	.110	.054	.015	.108	.054	.015	.103	.052	.015	.098	.050	.015	.094	.049	.014	
8.0	.105	.051	.014	.103	.051	.014	.099	.049	.014	.095	.048	.014	.091	.047	.014	
9.0	.101	.049	.014	.099	.048	.013	.095	.047	.013	.091	.046	.013	.088	.045	.013	
10.0	.096	.046	.013	.095	.046	.013	.091	.045	.013	.088	.044	.012	.085	.043	.012	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	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	.158	.147	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.153	.133	.116	.131	.114	.100	.090	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.139	.113	.093	.119	.098	.081	.082	.068	.057	.047	.040	.033	.015	.013	.011	
4.0	.127	.098	.076	.109	.085	.066	.075	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.117	.086	.063	.101	.075	.055	.069	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.109	.077	.053	.094	.066	.046	.065	.046	.033	.038	.027	.019	.012	.009	.006	
7.0	.102	.069	.045	.088	.059	.039	.061	.042	.028	.035	.025	.017	.011	.008	.006	
8.0	.096	.062	.039	.082	.054	.034	.057	.038	.024	.033	.022	.014	.011	.007	.005	
9.0	.090	.057	.034	.078	.049	.030	.054	.035	.021	.031	.020	.013	.010	.007	.004	
10.0	.086	.052	.030	.074	.045	.026	.051	.032	.018	.030	.019	.011	.010	.006	.004	

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:03 November 2020

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-i300\_V1 SYSTEM V2.0.401  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks:

### UGR(Unified Glare Rating) Table

Test:U:230.00V I:0.0490A P:11.000W PF:0.9780 Freq:50.00Hz Lamp Flux:601.782x1 lm											
NAME: SLDL280F-30SDP-BGDD11					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.: Switch Lighting					SUR.:			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		16.8	17.6	17.0	17.8	17.9	17.0	17.8	17.2	17.9	18.1
	3H	17.2	17.9	17.4	18.1	18.2	17.3	18.1	17.6	18.3	18.4
	4H	17.2	17.9	17.5	18.1	18.3	17.4	18.1	17.7	18.3	18.5
	6H	17.2	17.8	17.5	18.0	18.3	17.4	18.0	17.7	18.2	18.5
	8H	17.1	17.8	17.4	18.0	18.3	17.3	18.0	17.6	18.2	18.5
	12H	17.1	17.7	17.4	18.0	18.2	17.3	17.9	17.6	18.2	18.4
4H	2H	17.0	17.7	17.3	17.9	18.1	17.2	17.9	17.4	18.1	18.3
	3H	17.4	18.0	17.7	18.3	18.5	17.6	18.2	17.9	18.4	18.7
	4H	17.5	18.0	17.8	18.3	18.6	17.7	18.2	18.0	18.5	18.8
	6H	17.5	17.9	17.8	18.3	18.6	17.7	18.1	18.0	18.5	18.8
	8H	17.4	17.9	17.8	18.2	18.6	17.6	18.1	18.0	18.4	18.8
	12H	17.4	17.8	17.8	18.2	18.6	17.6	18.0	18.0	18.4	18.8
8H	4H	17.4	17.9	17.8	18.2	18.6	17.6	18.0	18.0	18.4	18.8
	6H	17.4	17.8	17.9	18.2	18.6	17.6	18.0	18.0	18.4	18.8
	8H	17.4	17.7	17.9	18.1	18.6	17.6	17.9	18.1	18.3	18.8
	12H	17.4	17.7	17.8	18.1	18.6	17.6	17.9	18.0	18.3	18.8
12H	4H	17.4	17.8	17.8	18.1	18.5	17.6	18.0	18.0	18.3	18.7
	6H	17.4	17.7	17.8	18.1	18.6	17.6	17.9	18.0	18.3	18.8
	8H	17.4	17.6	17.8	18.1	18.6	17.6	17.8	18.0	18.3	18.8
Variations with the observer position at spacings:											
S = 1.0H		+ 1.2 / - 1.2					+ 1.2 / - 1.3				
1.5H		+ 2.1 / - 0.8					+ 2.2 / - 0.8				
2.0H		+ 0.7 / - 0.7					+ 0.8 / - 0.7				

CIE Pub.117, 601.8 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.8)

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:03 November 2020

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-i300\_V1 SYSTEM V2.0.401  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:230.00V I:0.0490A P:11.000W PF:0.9780 Freq:50.00Hz Lamp Flux:601.782x1 lm		
NAME: SLDL280F-30SDP-BGDD11	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

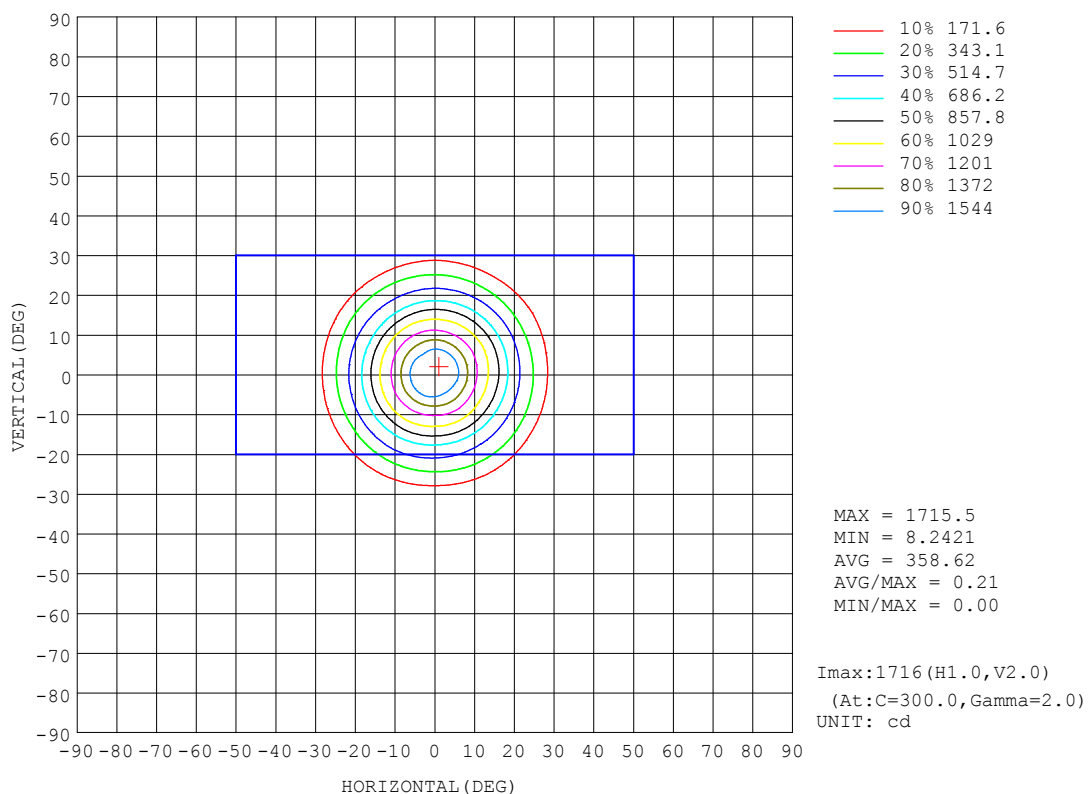
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	89	83	79	88	83	79	88	82	79	75
0.80	96	90	87	95	90	87	94	89	86	83
1.00	100	95	91	99	94	91	98	94	90	87
1.25	104	99	96	103	98	95	101	97	94	90
1.50	106	102	99	105	101	98	103	100	97	93
2.00	109	105	102	108	104	101	105	102	100	94
2.50	111	107	104	109	106	103	106	103	101	95
3.00	112	109	106	110	107	105	107	105	103	97
4.00	114	111	109	112	110	108	108	107	105	98
5.00	115	113	111	113	111	110	109	108	107	99
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:03 November 2020

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-i300\_V1 SYSTEM V2.0.401  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks:

# ISOCANDELA DIAGRAM

Test:U:230.00V I:0.0490A P:11.000W PF:0.9780 Freq:50.00Hz Lamp Flux:601.782x1 lm		
NAME: SLDL280F-30SDP-BGDD11	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



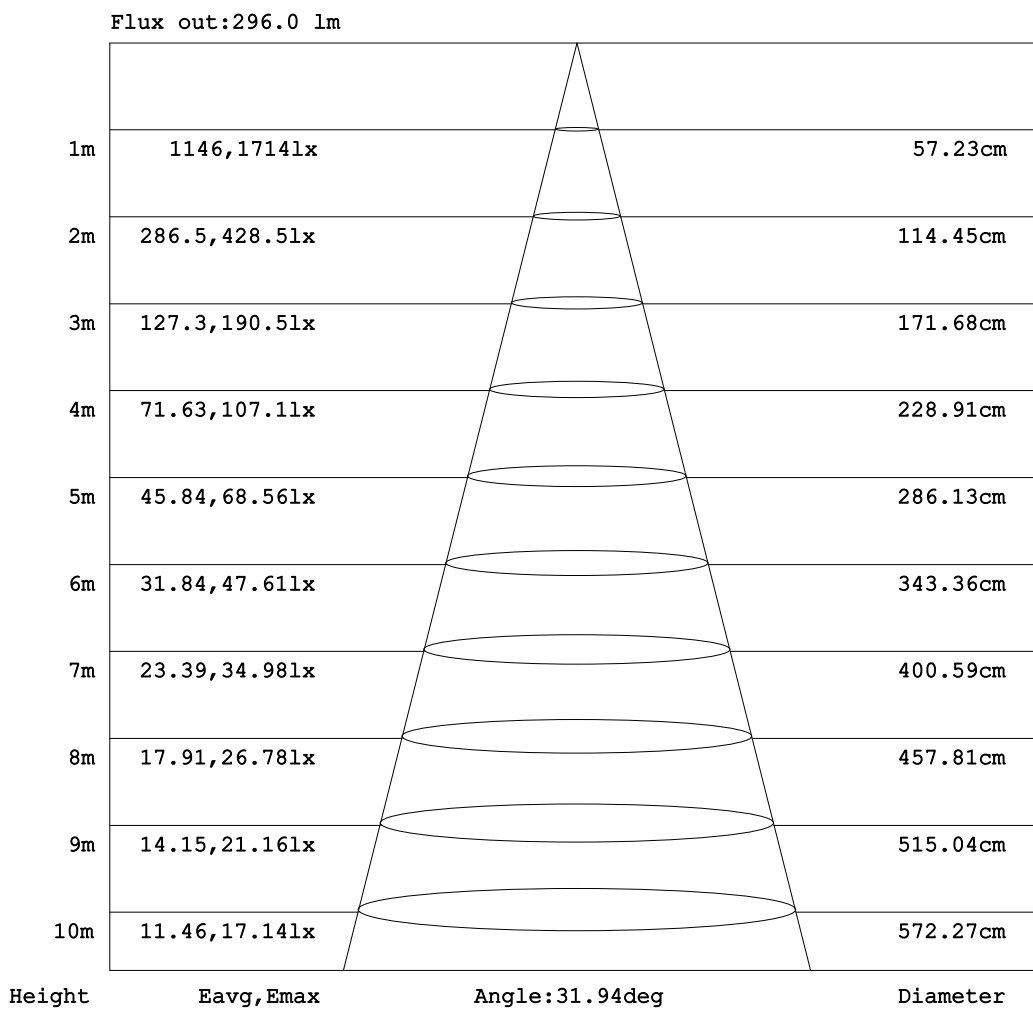
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:03 November 2020

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-i300\_v1 SYSTEM V2.0.401  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks:



**AAI Figure**

Test:U:230.00V I:0.0490A P:11.000W PF:0.9780 Freq:50.00Hz Lamp Flux:601.782x1 lm		
NAME: SLDL280F-30SDP-BGDD11	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



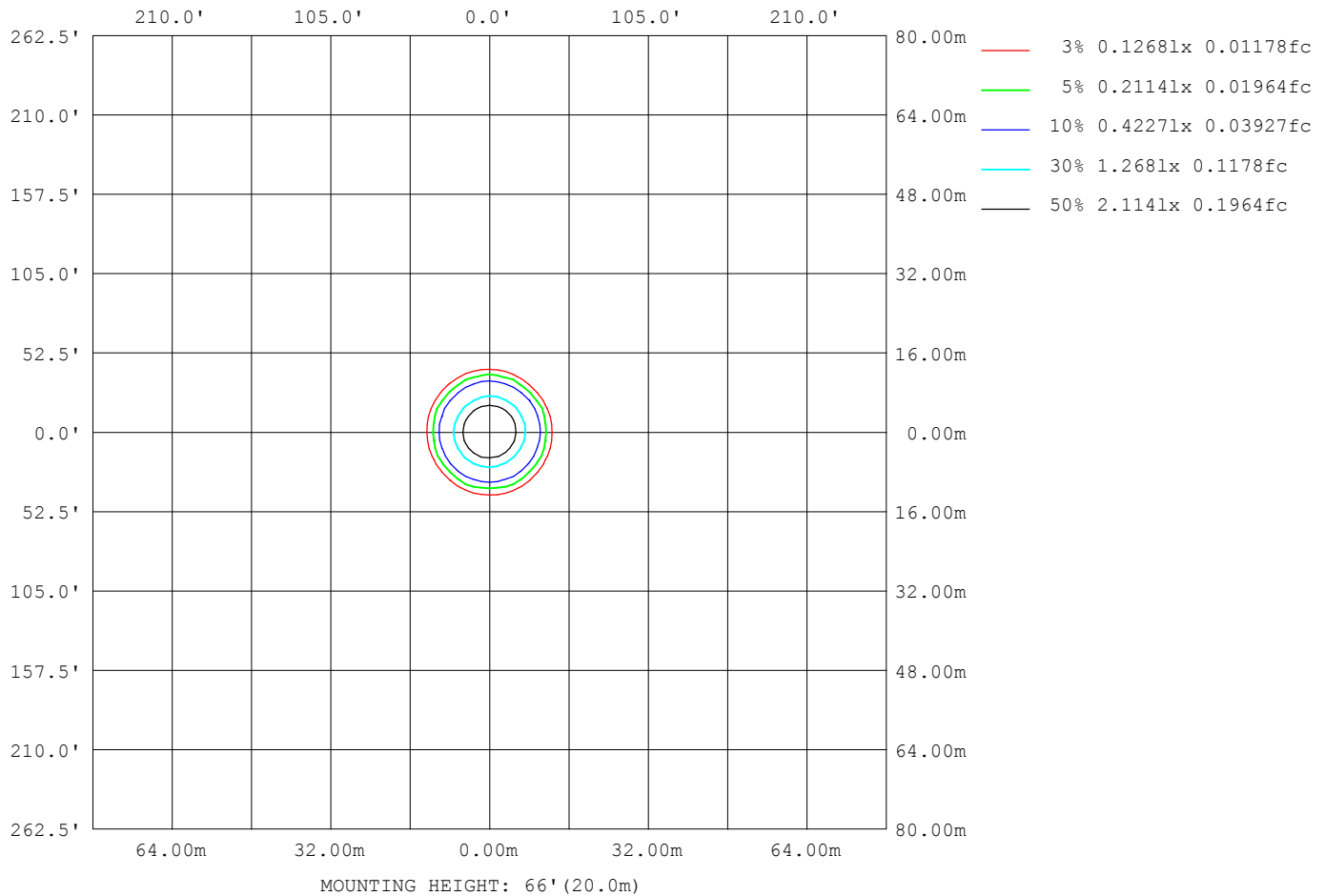
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:03 November 2020

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-i300\_V1 SYSTEM V2.0.401  
 Humidity:65.0%  
 Test Distance:3.160m [K=1.0000]  
 Remarks:

ISOLUX DIAGRAM

Test:U:230.00V I:0.0490A P:11.000W PF:0.9780 Freq:50.00Hz Lamp Flux:601.782x1 lm		
NAME: SLDL280F-30SDP-BGDD11	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:03 November 2020

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-i300\_V1 SYSTEM V2.0.401  
 Humidity:65.0%  
 Test Distance:3.160m [K=1.0000]  
 Remarks:

### LED Avg.L Report

Test:U:230.00V I:0.0490A P:11.000W PF:0.9780 Freq:50.00Hz Lamp Flux:601.782x1 lm		
NAME: SLDL280F-30SDP-BGDD11	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

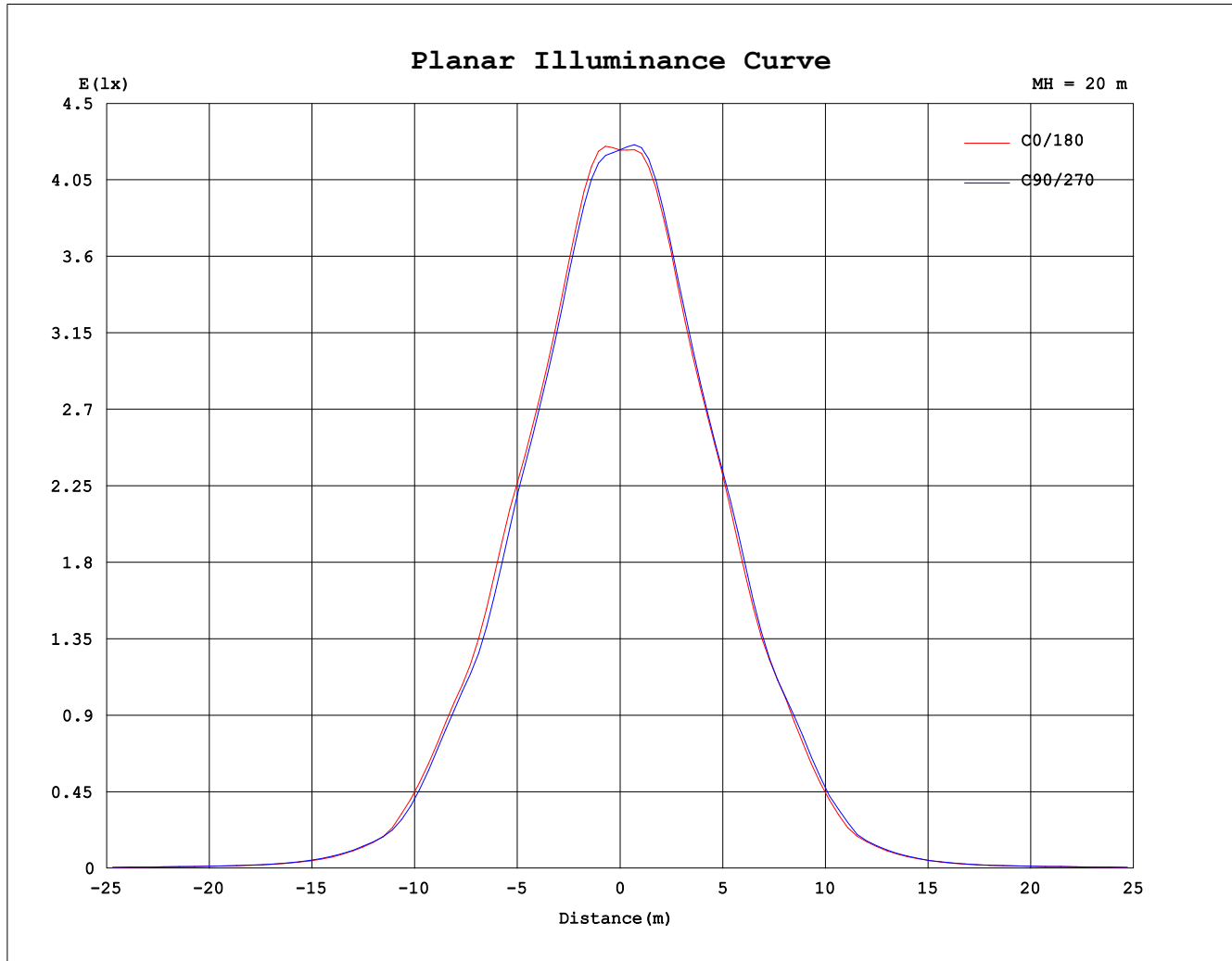
AvgL	cd/m2
L_0~180 (65) av	9036
L_0~180 (75) av	4337
L_0~180 (85) av	1903
L_90~270 (65) av	9228
L_90~270 (75) av	4446
L_90~270 (85) av	1926
L_45 (65) av	9242
L_45 (75) av	4402
L_45 (85) av	1918

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:03 November 2020

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-i300\_V1 SYSTEM V2.0.401  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks:

# Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Jason  
 Test Date: 03 November 2020

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-i300\_V1 SYSTEM V2.0.401  
 Humidity: 65.0%  
 Test Distance: 3.160m [K=1.0000]  
 Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-i300_V1 SYSTEM V2.0.401
Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
Remarks:

```