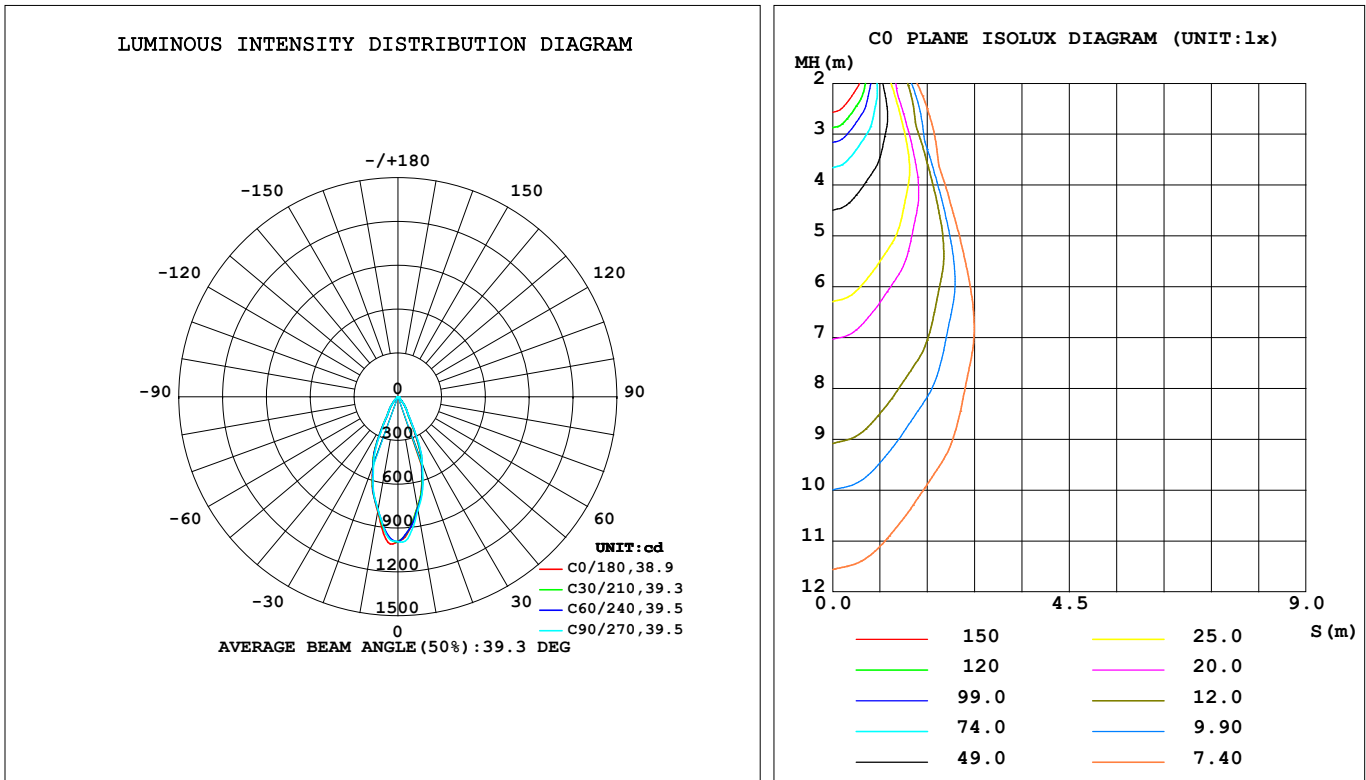


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:229.90V I:0.0410A P:9.1000W PF:0.9750 Freq:50.00Hz Lamp Flux:495.89lx1 lm		
NAME: SLDL280F-40SDP-BGDD10	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 54.49 lm/W
MODEL		I <sub>max</sub> (cd)	1030	S/MH (C0/180)		0.65
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)		0.63
RATED VOLTAGE (V)	230V	TOTAL FLUX (lm)	495.89	η UP,DN (C0-180)		0.0,49.6
NOMINAL FLUX (lm)	495.891	CIE CLASS	DIRECT	η UP,DN (C180-360)		0.0,50.4
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM		0.50
TEST VOLTAGE (V)		η down (%)	100.0	CIBSE SHR MAX		0.65



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Jason  
 Test Date: 18 December 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:

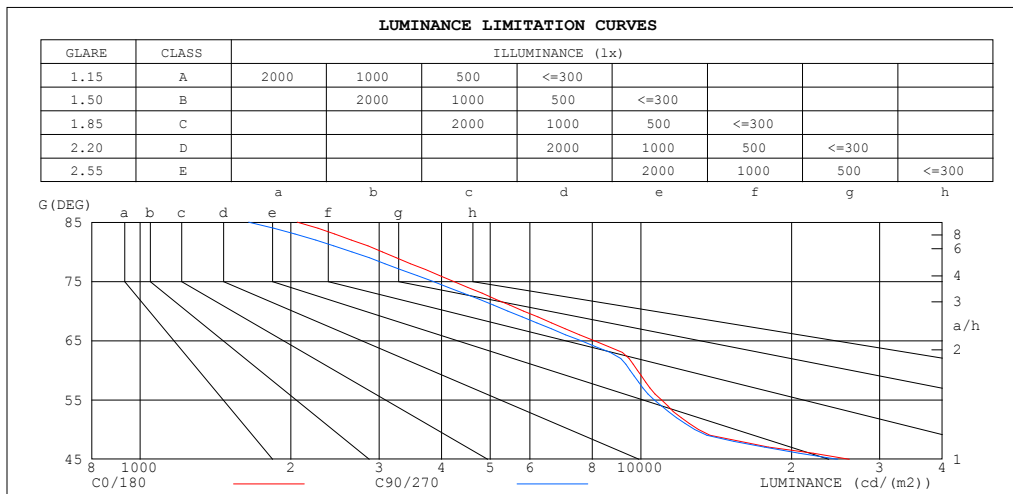
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	769.3	774.4	790.5	807.6	799.3	791.3	786.0	772.8	0- 10	84.48	84.48	17,17
20	475.2	478.1	489.5	503.4	504.9	500.3	492.4	482.3	10- 20	178.3	262.8	53,53
30	137.0	138.8	143.5	150.0	152.6	150.3	148.5	139.7	20- 30	140.4	403.2	81.3,81.3
40	53.20	53.50	52.57	52.20	53.34	56.40	57.43	53.70	30- 40	59.62	462.8	93.3,93.3
50	10.55	10.29	10.33	10.65	10.59	10.85	11.01	10.47	40- 50	19.97	482.8	97.4,97.4
60	6.199	6.007	5.967	6.161	6.026	6.242	6.441	6.115	50- 60	7.185	490.0	98.8,98.8
70	2.512	2.382	2.329	2.453	2.345	2.425	2.577	2.439	60- 70	4.196	494.2	99.7,99.7
80	0.6657	0.6134	0.5776	0.6236	0.5828	0.6060	0.6630	0.6200	70- 80	1.458	495.6	99.9,99.9
90	0	0	0	0	0	0	0	0	80- 90	0.2542	495.9	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:18 December 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:229.90V I:0.0410A P:9.1000W PF:0.9750 Freq:50.00Hz Lamp Flux:495.89lx1 lm		
NAME: SLDL280F-40SDP-BGDD10	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2059	1647
80	3045	2651
75	4222	3843
70	5833	5427
65	8057	7587
60	9847	9511
55	10989	10627
50	13032	12813
45	26079	24709

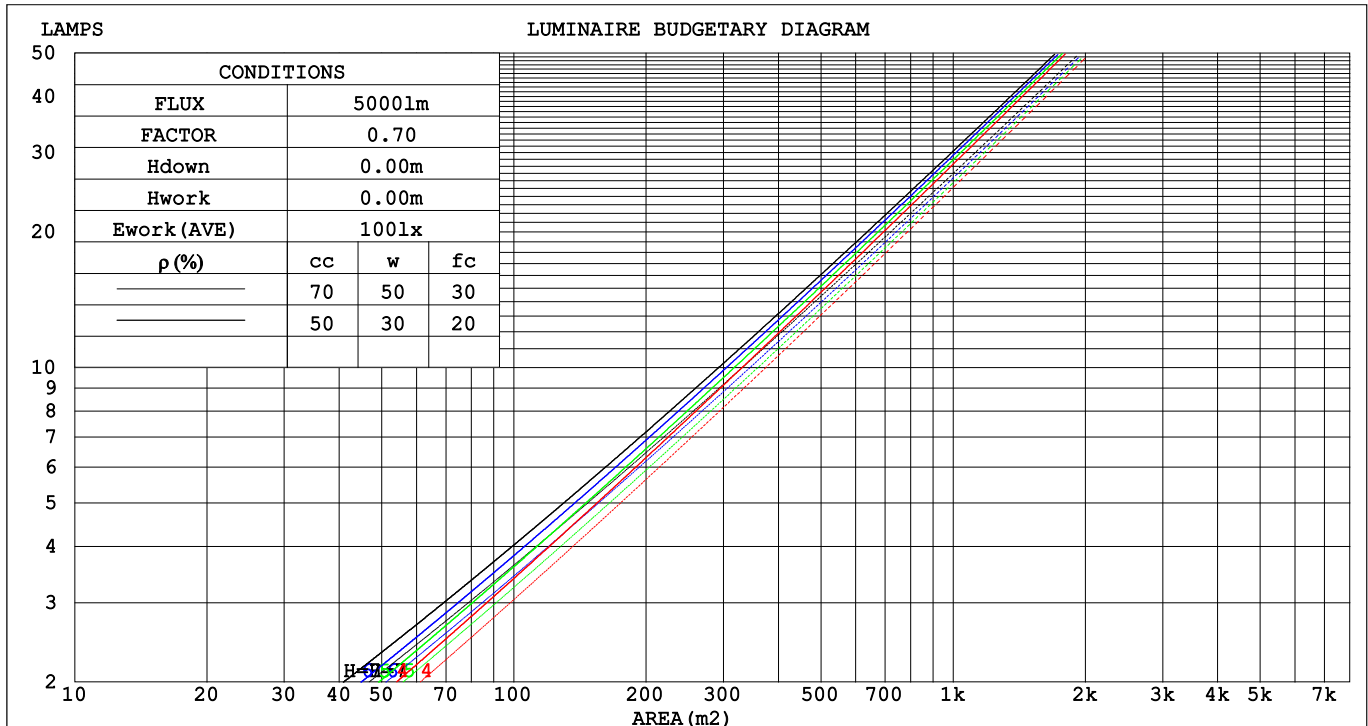
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Jason  
 Test Date: 18 December 2020

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:229.90V I:0.0410A P:9.1000W PF:0.9750 Freq:50.00Hz Lamp Flux:495.89lx1 lm		
NAME: SLDL280F-40SDP-BGDD10	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:18 December 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:229.90V I:0.0410A P:9.1000W PF:0.9750 Freq:50.00Hz Lamp Flux:495.891x1 lm																	
NAME: SLDL280F-40SDP-BGDD10									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	.167	.095	.030	.161	.092	.029	.148	.085	.027	.136	.079	.025	.126	.073	.024	
2.0	.159	.087	.027	.153	.084	.026	.143	.079	.025	.133	.075	.023	.124	.070	.022	
3.0	.150	.080	.024	.145	.078	.023	.136	.074	.022	.128	.070	.022	.121	.067	.021	
4.0	.142	.074	.022	.138	.072	.021	.130	.069	.021	.123	.066	.020	.117	.063	.019	
5.0	.135	.069	.020	.131	.067	.020	.125	.065	.019	.119	.063	.019	.113	.060	.018	
6.0	.128	.064	.018	.125	.063	.018	.120	.061	.018	.114	.059	.017	.109	.057	.017	
7.0	.122	.061	.017	.120	.060	.017	.115	.058	.017	.110	.056	.016	.105	.055	.016	
8.0	.117	.057	.016	.115	.056	.016	.110	.055	.016	.106	.054	.015	.102	.052	.015	
9.0	.112	.054	.015	.110	.054	.015	.106	.052	.015	.102	.051	.015	.098	.050	.014	
10.0	.107	.051	.014	.105	.051	.014	.102	.050	.014	.098	.049	.014	.095	.048	.014	

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	.157	.146	.146	.135	.125	.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	.055	.048	.040	.033	.015	.013	.011	
4.0	.130	.099	.074	.112	.085	.065	.077	.059	.045	.045	.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	.097	.067	.045	.067	.047	.032	.039	.028	.019	.013	.009	.006	
7.0	.107	.070	.044	.092	.060	.038	.063	.042	.027	.037	.025	.016	.012	.008	.005	
8.0	.101	.063	.037	.087	.055	.033	.060	.038	.023	.035	.023	.014	.011	.007	.005	
9.0	.095	.058	.033	.082	.050	.028	.057	.035	.020	.033	.021	.012	.011	.007	.004	
10.0	.091	.053	.029	.078	.046	.025	.054	.033	.018	.032	.019	.011	.010	.006	.003	

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:18 December 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:229.90V I:0.0410A P:9.1000W PF:0.9750 Freq:50.00Hz Lamp Flux:495.89lx1 lm											
NAME: SLDL280F-40SDP-BGDD10					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	2H	20.5	21.4	20.7	21.5	21.7	20.6	21.4	20.8	21.6	21.8
	3H	20.6	21.3	20.8	21.5	21.7	20.6	21.4	20.9	21.6	21.8
	4H	20.5	21.3	20.8	21.5	21.7	20.6	21.3	20.8	21.5	21.8
	6H	20.5	21.2	20.8	21.4	21.7	20.5	21.2	20.8	21.5	21.7
	8H	20.4	21.1	20.8	21.4	21.6	20.5	21.2	20.8	21.4	21.7
	12H	20.4	21.1	20.7	21.3	21.6	20.4	21.1	20.8	21.4	21.6
4H	2H	20.4	21.2	20.7	21.4	21.6	20.5	21.2	20.7	21.4	21.7
	3H	20.5	21.2	20.8	21.4	21.7	20.5	21.2	20.9	21.5	21.7
	4H	20.5	21.1	20.8	21.4	21.7	20.5	21.1	20.9	21.4	21.7
	6H	20.5	21.0	20.8	21.3	21.7	20.5	21.0	20.9	21.3	21.7
	8H	20.4	20.9	20.8	21.3	21.6	20.5	20.9	20.8	21.3	21.7
	12H	20.4	20.8	20.8	21.2	21.6	20.4	20.9	20.8	21.2	21.6
8H	4H	20.4	20.9	20.8	21.2	21.6	20.4	20.9	20.8	21.3	21.6
	6H	20.4	20.8	20.8	21.2	21.6	20.4	20.8	20.8	21.2	21.6
	8H	20.3	20.7	20.8	21.1	21.5	20.4	20.7	20.8	21.1	21.6
	12H	20.3	20.6	20.8	21.0	21.5	20.3	20.6	20.8	21.1	21.5
12H	4H	20.3	20.8	20.8	21.2	21.6	20.4	20.8	20.8	21.2	21.6
	6H	20.3	20.7	20.8	21.1	21.5	20.4	20.7	20.8	21.1	21.6
	8H	20.3	20.6	20.8	21.0	21.5	20.3	20.6	20.8	21.1	21.5
Variations with the observer position at spacings:											
S = 1.0H	+ 2.4 / - 4.2					+ 2.4 / - 4.4					
1.5H	+ 4.4 / - 3.7					+ 4.5 / - 3.8					
2.0H	+ 3.5 / - 1.3					+ 3.3 / - 1.2					

CIE Pub.117, 495.9 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.4)

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:18 December 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:229.90V I:0.0410A P:9.1000W PF:0.9750 Freq:50.00Hz Lamp Flux:495.89lx1 lm		
NAME: SLDL280F-40SDP-BGDD10	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

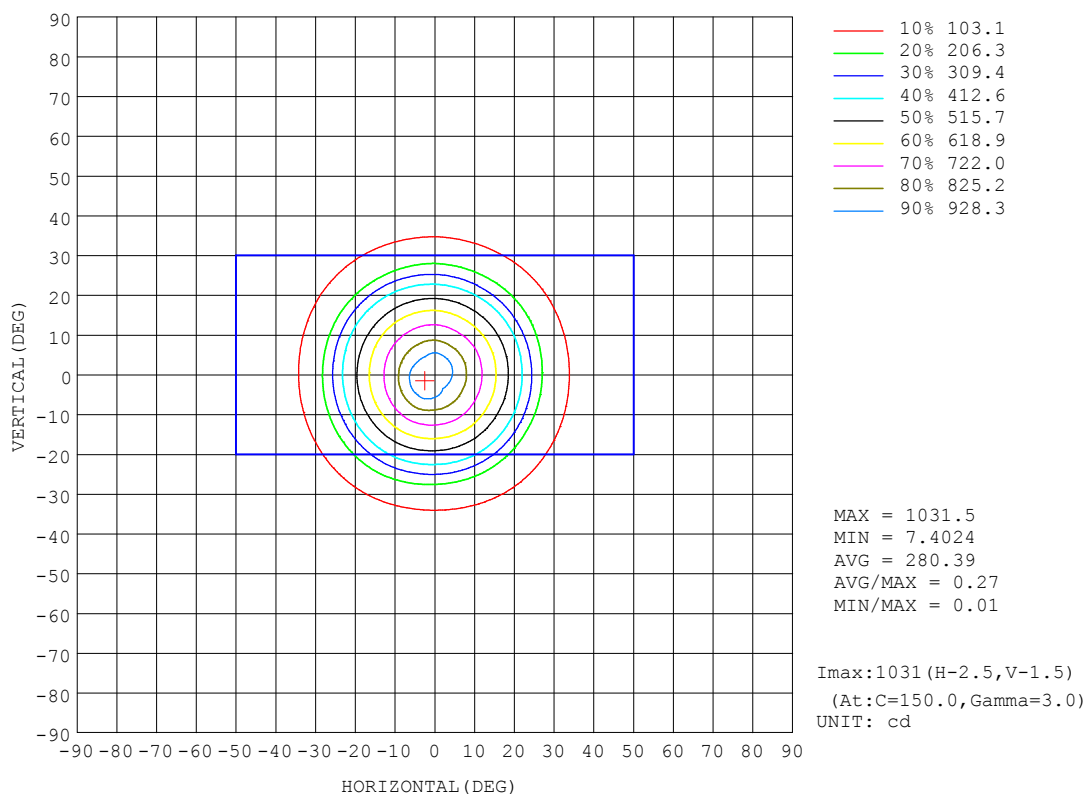
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	87	81	77	87	81	77	86	81	77	73
0.80	95	89	85	94	89	85	93	88	85	81
1.00	99	94	90	98	93	90	97	93	89	85
1.25	103	98	95	102	97	94	100	96	93	89
1.50	106	101	98	105	100	97	102	99	96	92
2.00	109	104	101	107	103	100	104	101	99	94
2.50	110	106	103	109	105	103	106	103	101	95
3.00	112	108	106	110	107	105	107	104	102	96
4.00	114	111	109	112	109	107	108	106	105	98
5.00	115	113	111	113	111	109	109	108	106	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:18 December 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:229.90V I:0.0410A P:9.1000W PF:0.9750 Freq:50.00Hz Lamp Flux:495.89lx1 lm		
NAME: SLDL280F-40SDP-BGDD10	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



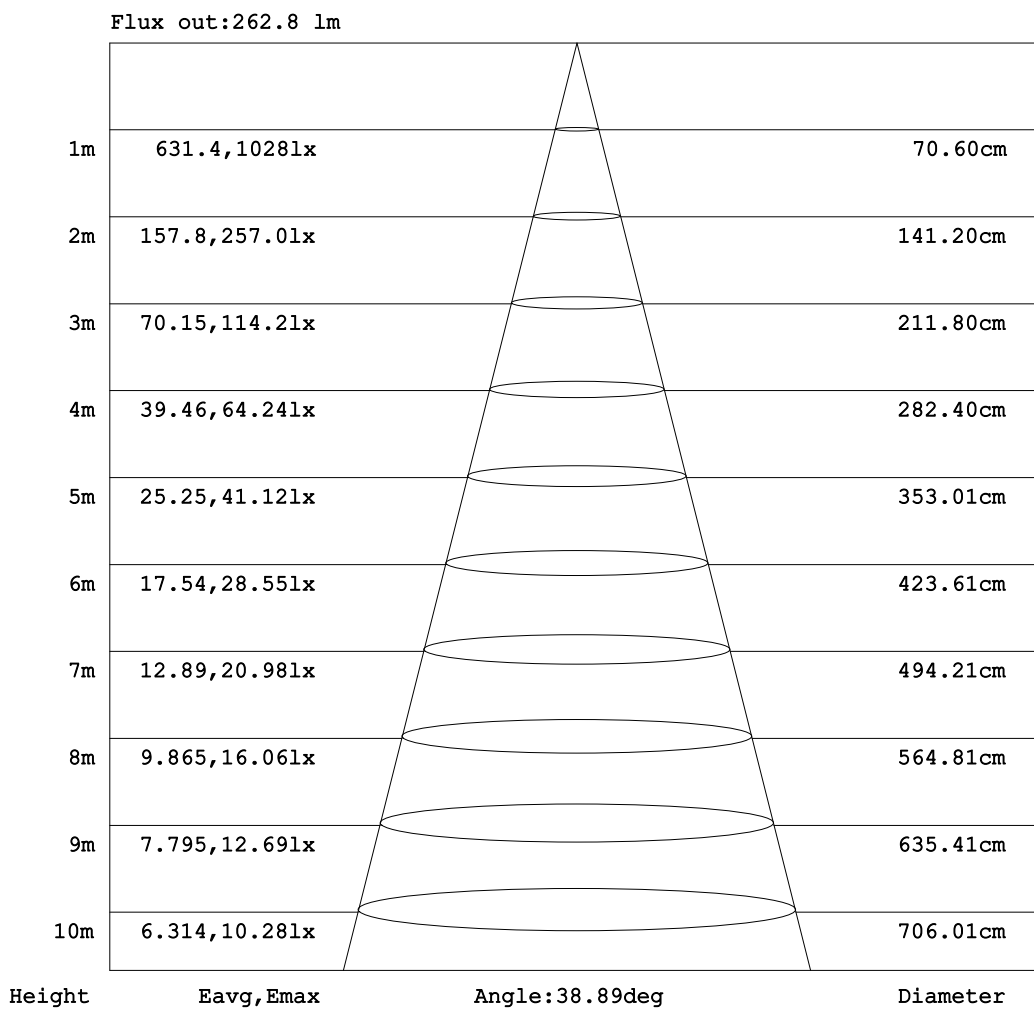
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:18 December 2020

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:229.90V I:0.0410A P:9.1000W PF:0.9750 Freq:50.00Hz Lamp Flux:495.89lx1 lm		
NAME: SLDL280F-40SDP-BGDD10	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



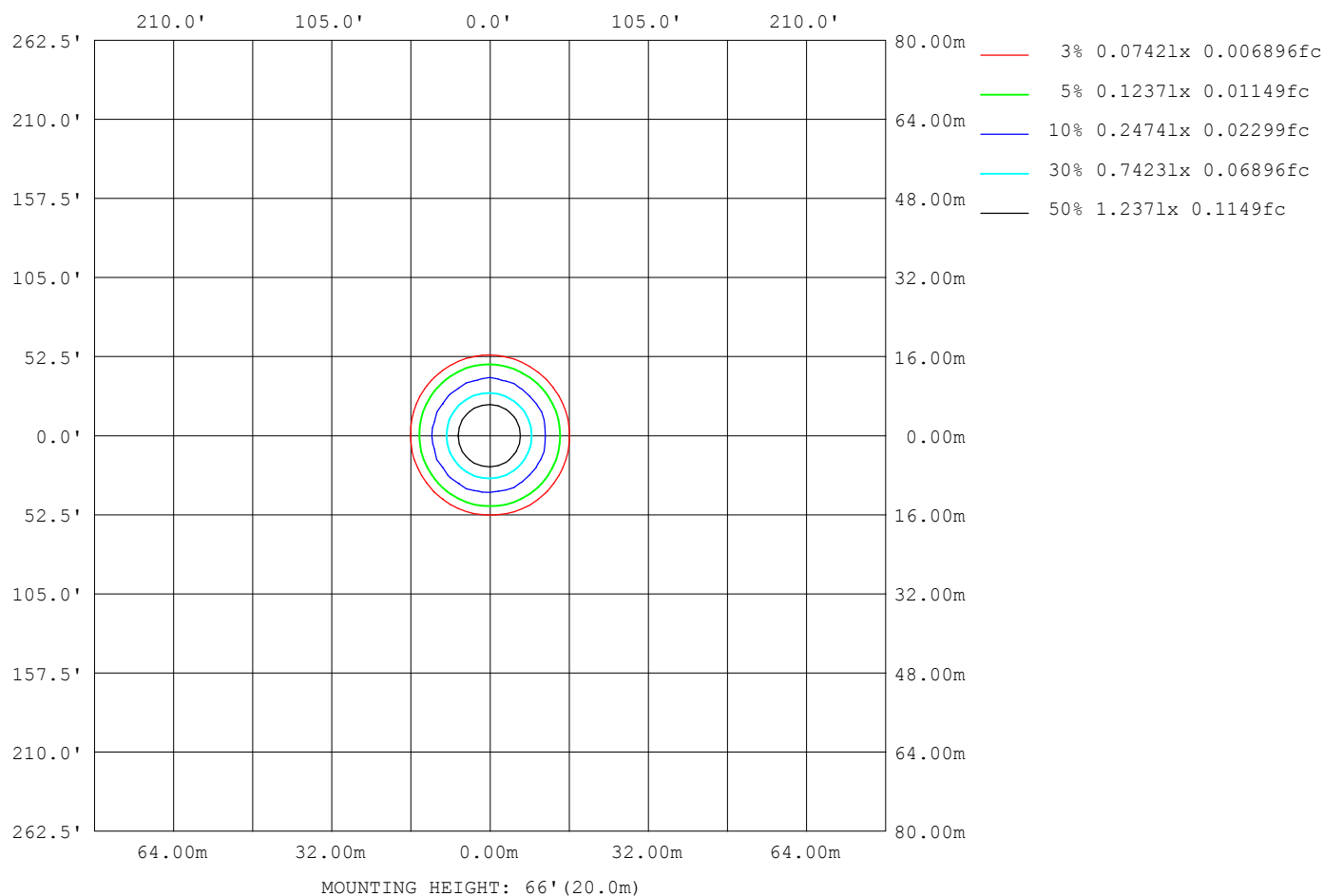
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:18 December 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:229.90V I:0.0410A P:9.1000W PF:0.9750 Freq:50.00Hz Lamp Flux:495.89lx1 lm		
NAME: SLDL280F-40SDP-BGDD10	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:18 December 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:229.90V I:0.0410A P:9.1000W PF:0.9750 Freq:50.00Hz Lamp Flux:495.891x1 lm		
NAME: SLDL280F-40SDP-BGDD10	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

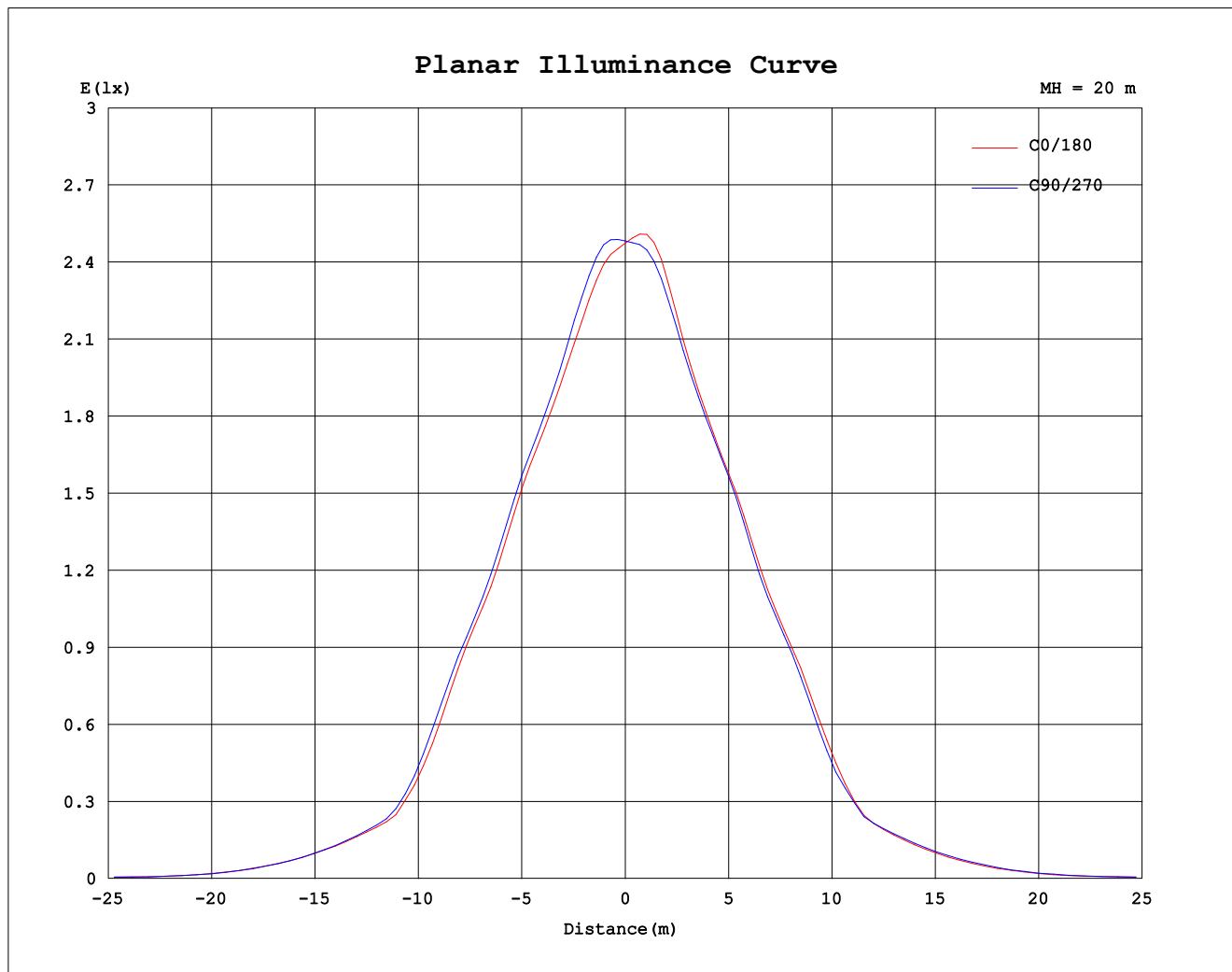
AvgL	cd/m2
L_0~180 (65) av	7889
L_0~180 (75) av	4050
L_0~180 (85) av	1858
L_90~270 (65) av	7961
L_90~270 (75) av	4076
L_90~270 (85) av	1852
L_45 (65) av	7855
L_45 (75) av	4031
L_45 (85) av	1834

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:18 December 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: 18 December 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:

```