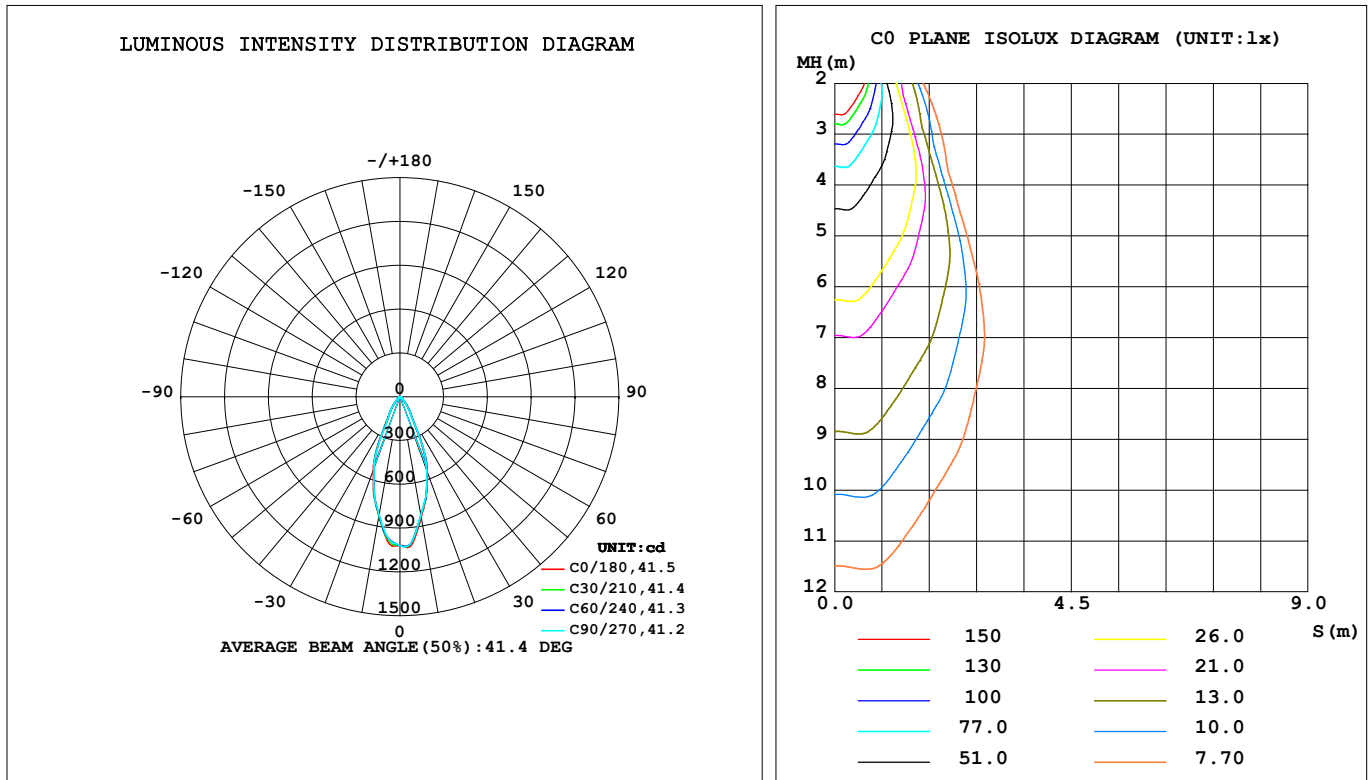


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.00V I:0.0350A P:7.7000W PF:0.9680 Freq:50.00Hz Lamp Flux:544.369x1 lm		
NAME: SLDL280F-4030P-BGDD15	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 70.70 lm/W
MODEL		I <sub>max</sub> (cd)	1034	S/MH (C0/180)		0.65
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)		0.64
RATED VOLTAGE (V)	230V	TOTAL FLUX (lm)	544.37	η UP,DN (C0-180)		0.0,50.4
NOMINAL FLUX (lm)	544.369	CIE CLASS	DIRECT	η UP,DN (C180-360)		0.0,49.6
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:21 October 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:

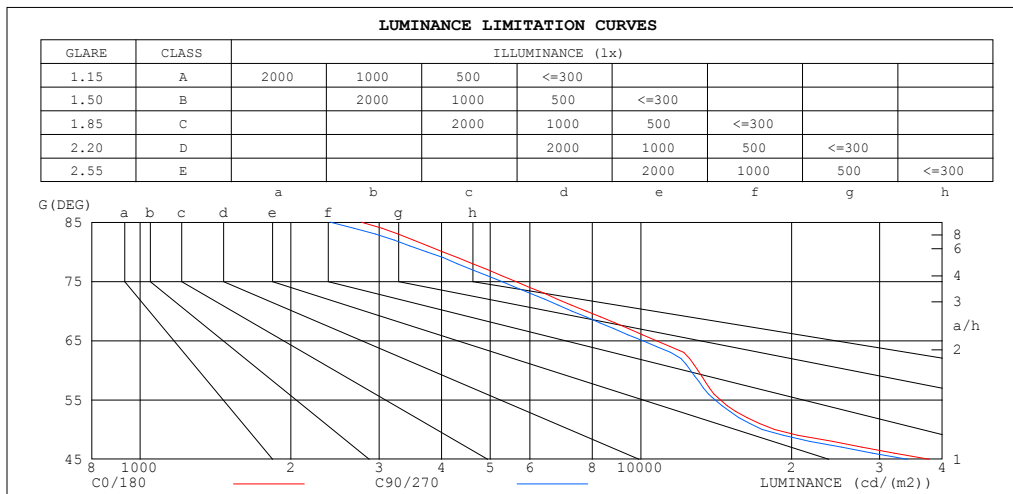
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	840.1	828.6	823.7	824.6	831.5	829.8	822.8	828.9	0- 10	88.45	88.45	16.2,16.2
20	539.4	541.0	539.3	537.3	535.6	524.1	522.8	531.9	10- 20	189.9	278.3	51.1,51.1
30	166.9	166.3	165.0	164.9	164.6	159.7	157.3	162.4	20- 30	154.6	432.9	79.5,79.5
40	69.20	67.31	63.35	61.26	62.53	62.91	64.38	67.00	30- 40	68.44	501.3	92.1,92.1
50	14.96	14.57	14.10	14.15	14.62	14.32	14.59	14.93	40- 50	25.82	527.1	96.8,96.8
60	8.172	7.898	7.881	7.987	8.192	8.118	7.919	7.951	50- 60	9.421	536.6	98.6,98.6
70	3.346	3.145	3.127	3.201	3.240	3.320	3.236	3.187	60- 70	5.518	542.1	99.6,99.6
80	0.8793	0.8139	0.8145	0.8389	0.8240	0.8585	0.8321	0.8186	70- 80	1.945	544.0	99.9,99.9
90	0	0	0	0	0	0	0	0	80- 90	0.3462	544.4	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:21 October 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:0.0350A P:7.7000W PF:0.9680 Freq:50.00Hz Lamp Flux:544.369x1 lm		
NAME: SLDL280F-4030P-BGDD15	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2766	2398
80	4026	3738
75	5618	5269
70	7778	7286
65	10715	10078
60	12995	12562
55	14404	14055
50	18506	17488
45	37712	34106

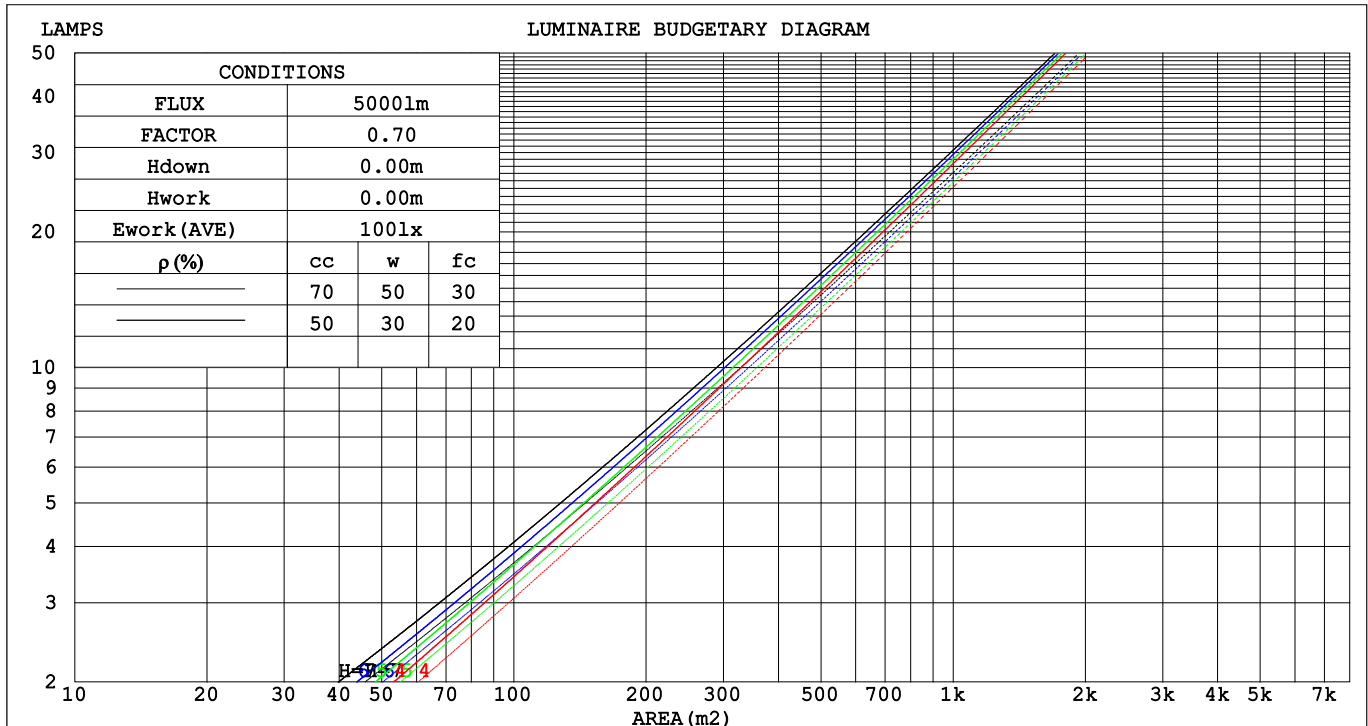
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:21 October 2020

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:0.0350A P:7.7000W PF:0.9680 Freq:50.00Hz Lamp Flux:544.369x1 lm		
NAME: SLDL280F-4030P-BGDD15	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:21 October 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:0.0350A P:7.7000W PF:0.9680 Freq:50.00Hz Lamp Flux:544.369x1 lm																	
NAME: SLDL280F-4030P-BGDD15									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	.170	.097	.031	.164	.093	.030	.151	.087	.028	.140	.081	.026	.129	.075	.024	
2.0	.162	.089	.027	.156	.086	.027	.146	.081	.025	.136	.076	.024	.127	.072	.023	
3.0	.153	.082	.024	.149	.080	.024	.140	.076	.023	.131	.072	.022	.124	.068	.021	
4.0	.145	.075	.022	.141	.074	.022	.133	.071	.021	.126	.068	.020	.120	.065	.020	
5.0	.138	.070	.020	.134	.069	.020	.128	.066	.020	.121	.064	.019	.116	.062	.019	
6.0	.131	.066	.019	.128	.065	.019	.122	.063	.018	.117	.061	.018	.112	.059	.017	
7.0	.125	.062	.018	.122	.061	.017	.117	.059	.017	.112	.058	.017	.108	.056	.016	
8.0	.119	.058	.016	.117	.058	.016	.112	.056	.016	.108	.055	.016	.104	.053	.016	
9.0	.114	.055	.015	.112	.055	.015	.108	.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	

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	.171	.157	.145	.146	.135	.125	.100	.093	.087	.057	.054	.050	.018	.017	.016		
2.0	.155	.133	.114	.133	.114	.098	.091	.079	.069	.052	.046	.040	.017	.015	.013		
3.0	.142	.114	.091	.122	.098	.079	.084	.068	.055	.048	.040	.033	.016	.013	.011		
4.0	.131	.099	.074	.113	.085	.064	.077	.059	.045	.045	.035	.027	.014	.011	.009		
5.0	.122	.087	.061	.105	.075	.053	.072	.053	.037	.042	.031	.022	.013	.010	.007		
6.0	.114	.077	.051	.098	.067	.044	.068	.047	.031	.039	.028	.019	.013	.009	.006		
7.0	.108	.070	.043	.092	.060	.038	.064	.042	.027	.037	.025	.016	.012	.008	.005		
8.0	.102	.063	.037	.087	.055	.032	.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: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:21 October 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:0.0350A P:7.7000W PF:0.9680 Freq:50.00Hz Lamp Flux:544.369x1 lm											
NAME: SLDL280F-4030P-BGDD15					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	21.5	22.4	21.8	22.6	22.8	21.4	22.3	21.6	22.4	22.6
	3H	21.6	22.4	21.9	22.6	22.8	21.4	22.2	21.7	22.4	22.6
	4H	21.6	22.4	21.9	22.6	22.8	21.4	22.2	21.7	22.4	22.6
	6H	21.5	22.3	21.8	22.5	22.7	21.4	22.1	21.7	22.3	22.6
	8H	21.5	22.2	21.8	22.5	22.7	21.3	22.0	21.6	22.3	22.5
	12H	21.5	22.1	21.8	22.4	22.7	21.3	22.0	21.6	22.2	22.5
4H	2H	21.5	22.2	21.7	22.4	22.7	21.3	22.1	21.6	22.3	22.5
	3H	21.6	22.2	21.9	22.5	22.8	21.4	22.1	21.7	22.3	22.6
	4H	21.6	22.2	21.9	22.5	22.8	21.4	22.0	21.8	22.3	22.6
	6H	21.5	22.1	21.9	22.4	22.7	21.4	21.9	21.7	22.2	22.6
	8H	21.5	22.0	21.9	22.3	22.7	21.3	21.8	21.7	22.2	22.6
	12H	21.5	21.9	21.9	22.3	22.7	21.3	21.8	21.7	22.1	22.5
8H	4H	21.5	22.0	21.9	22.3	22.7	21.3	21.8	21.7	22.2	22.5
	6H	21.4	21.9	21.9	22.2	22.7	21.3	21.7	21.7	22.1	22.5
	8H	21.4	21.8	21.9	22.2	22.6	21.3	21.6	21.7	22.0	22.5
	12H	21.4	21.7	21.9	22.1	22.6	21.2	21.5	21.7	22.0	22.4
12H	4H	21.4	21.9	21.8	22.2	22.6	21.3	21.7	21.7	22.1	22.5
	6H	21.4	21.8	21.8	22.2	22.6	21.2	21.6	21.7	22.0	22.5
	8H	21.4	21.7	21.8	22.1	22.6	21.2	21.5	21.7	22.0	22.4
Variations with the observer position at spacings:											
S = 1.0H		+ 2.2 / - 4.1					+ 2.1 / - 4.0				
1.5H		+ 4.1 / - 3.7					+ 4.0 / - 3.4				
2.0H		+ 3.9 / - 1.6					+ 3.4 / - 1.3				

CIE Pub.117, 544.4 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.1)

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:21 October 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:0.0350A P:7.7000W PF:0.9680 Freq:50.00Hz Lamp Flux:544.369x1 lm		
NAME: SLDL280F-4030P-BGDD15	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

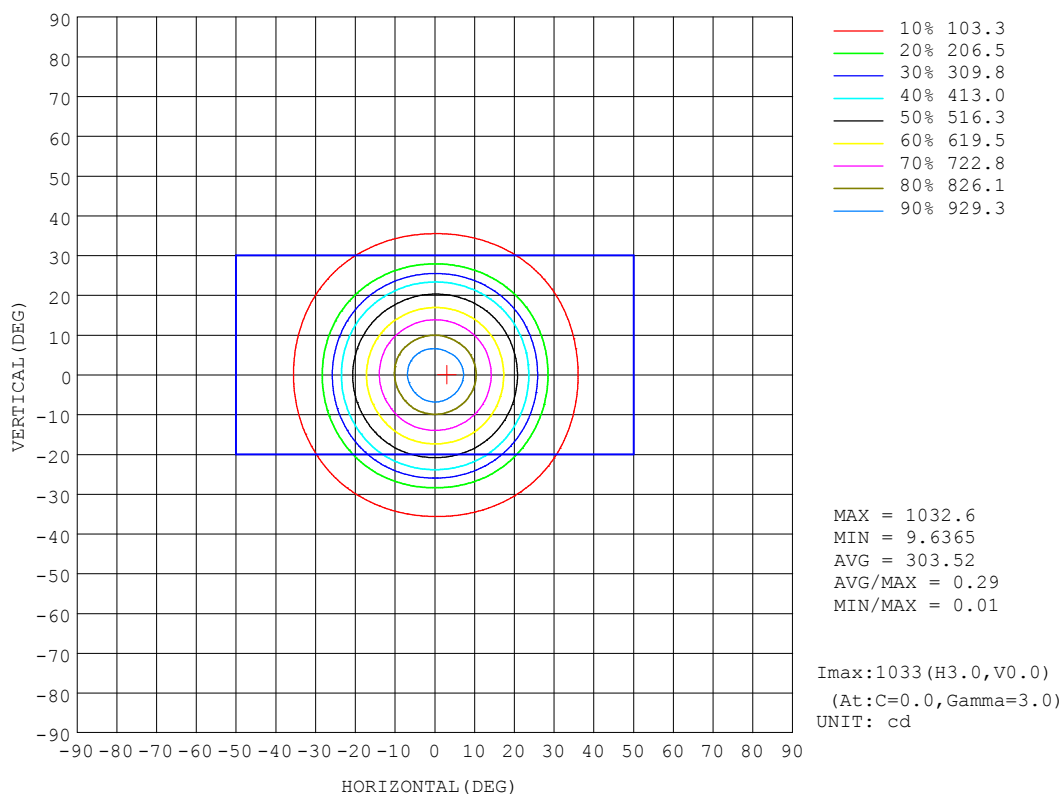
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	87	80	76	86	80	76	85	80	76	72
0.80	94	88	84	93	88	84	92	87	84	80
1.00	99	93	89	98	93	89	96	92	88	84
1.25	103	97	94	102	97	94	100	96	93	88
1.50	106	101	97	104	100	97	102	98	96	91
2.00	108	104	101	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	112	108	105	110	107	104	106	104	102	96
4.00	114	111	109	112	109	107	108	106	105	97
5.00	115	113	111	113	111	109	109	107	106	98
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:21 October 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:0.0350A P:7.7000W PF:0.9680 Freq:50.00Hz Lamp Flux:544.369x1 lm		
NAME: SLDL280F-4030P-BGDD15	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



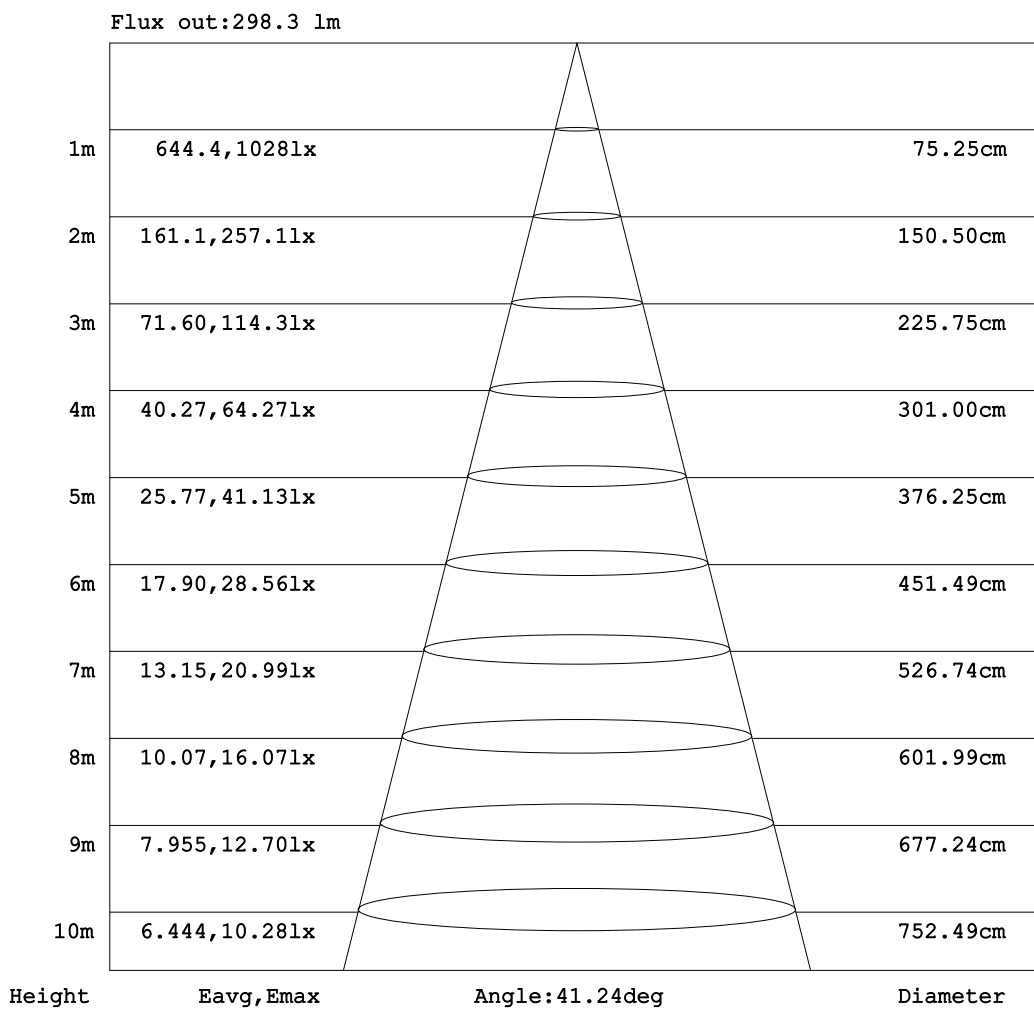
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:21 October 2020

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:0.0350A P:7.7000W PF:0.9680 Freq:50.00Hz Lamp Flux:544.369x1 lm		
NAME: SLDL280F-4030P-BGDD15	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



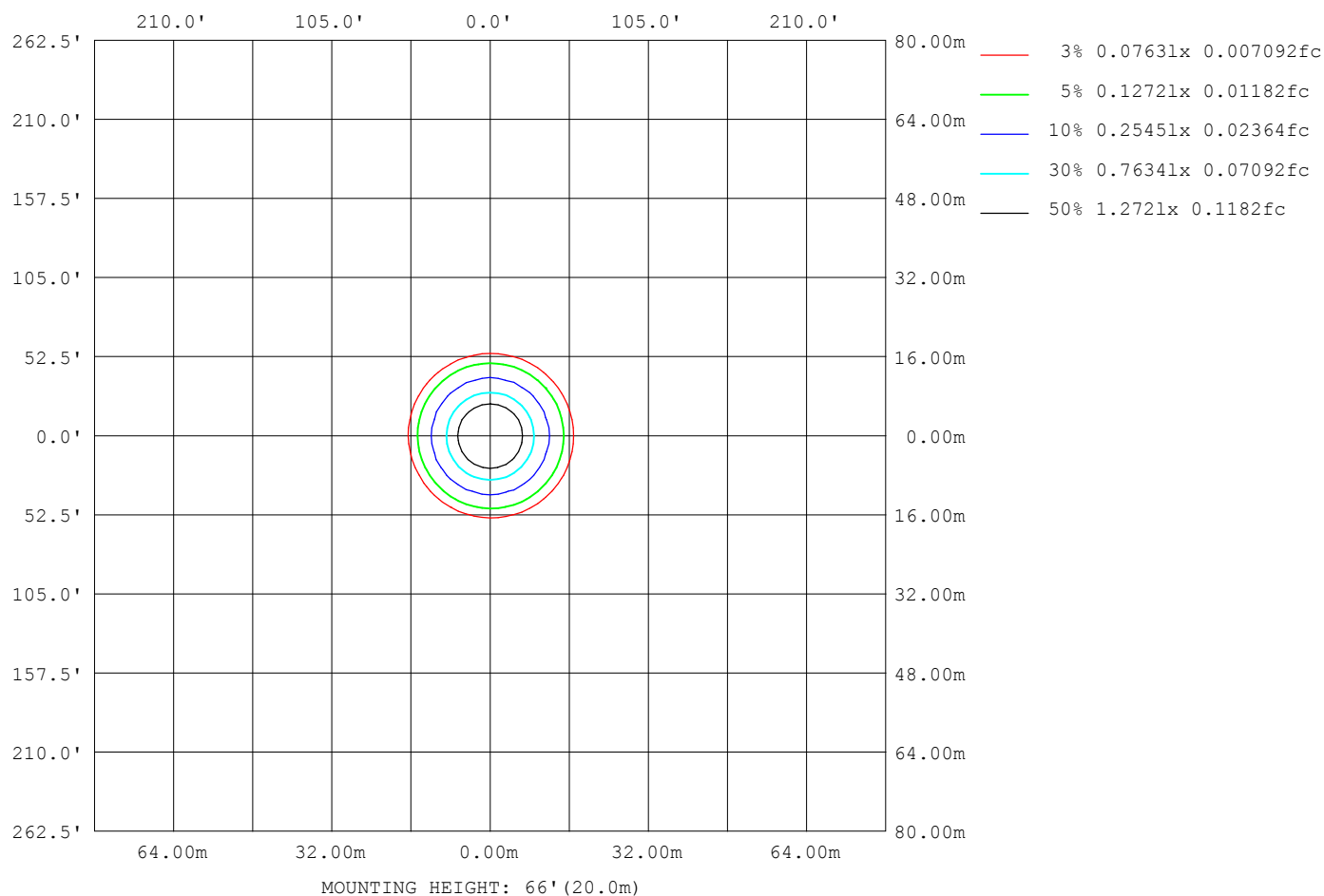
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:21 October 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:0.0350A P:7.7000W PF:0.9680 Freq:50.00Hz Lamp Flux:544.369x1 lm		
NAME: SLDL280F-4030P-BGDD15	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:21 October 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:0.0350A P:7.7000W PF:0.9680 Freq:50.00Hz Lamp Flux:544.369x1 lm		
NAME: SLDL280F-4030P-BGDD15	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

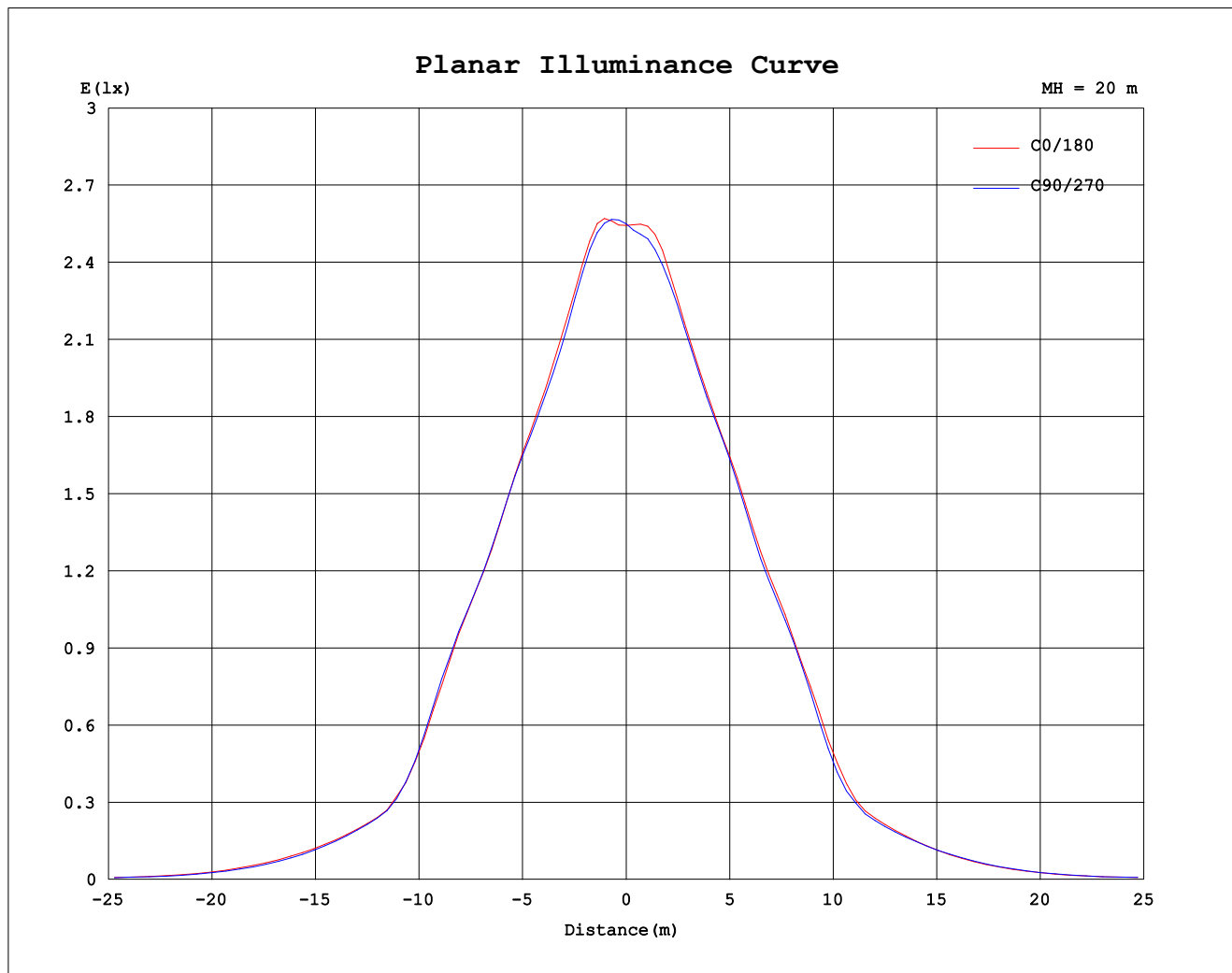
AvgL	cd/m2
L_0~180 (65) av	10636
L_0~180 (75) av	5505
L_0~180 (85) av	2597
L_90~270 (65) av	10230
L_90~270 (75) av	5329
L_90~270 (85) av	2514
L_45 (65) av	10360
L_45 (75) av	5386
L_45 (85) av	2536

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:21 October 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: 21 October 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:

```