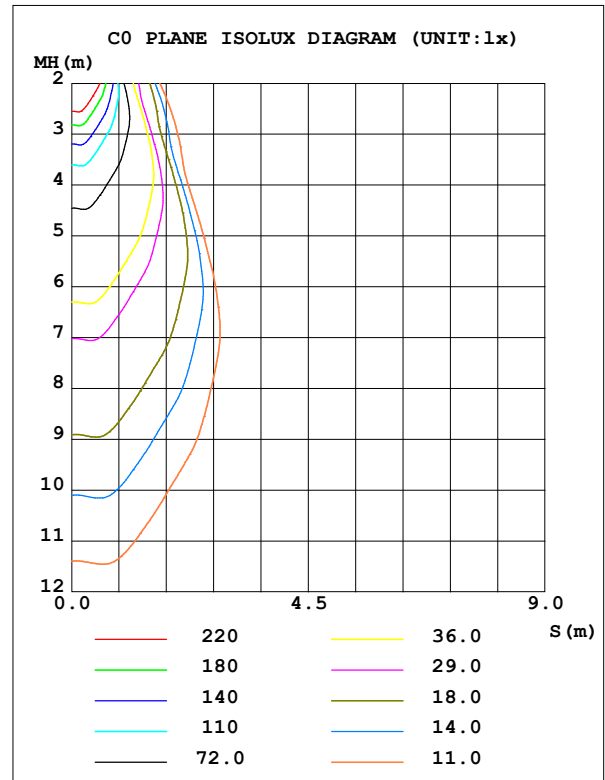
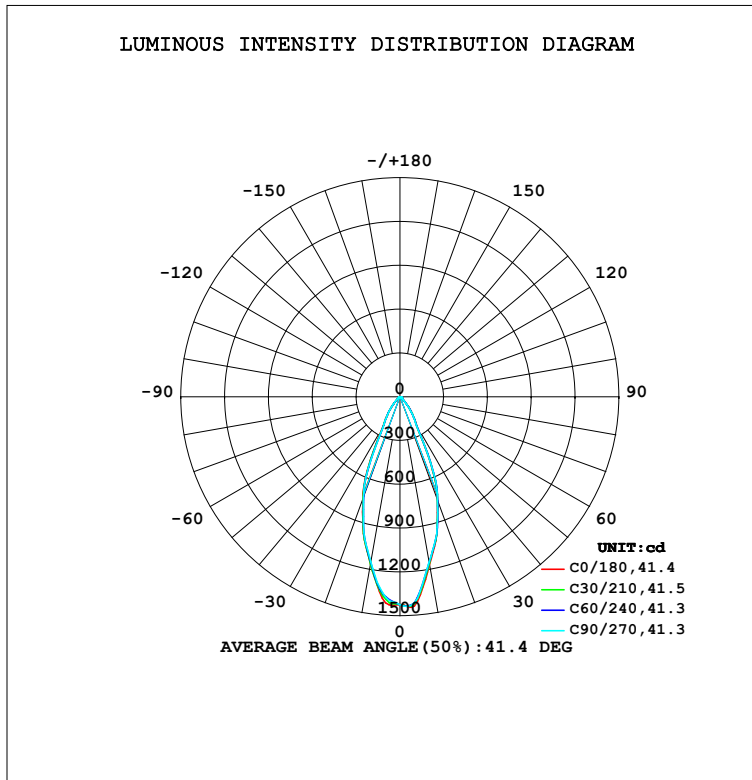


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.00V I:0.0510A P:11.400W PF:0.9800 Freq:50.00Hz Lamp Flux:761.442x1 lm		
NAME: SLDL280F-4030P-BGDD11	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 66.79 lm/W
MODEL		I <sub>max</sub> (cd)	1444	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)	761.44	η UP,DN (C0-180)		0.0,50.4
NOMINAL FLUX (lm)	761.442	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:

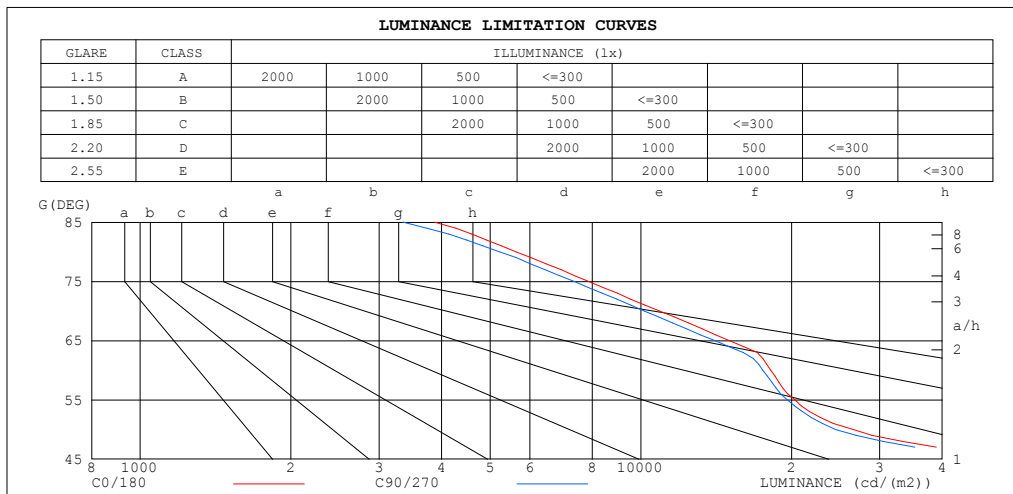
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	1172	1158	1151	1151	1161	1160	1149	1160	0- 10	123.6	123.6	16.2,16.2
20	752.1	756.7	753.2	750.1	747.8	734.0	731.6	745.1	10- 20	265.4	388.9	51.1,51.1
30	232.0	232.7	230.6	230.1	230.0	223.7	219.5	227.7	20- 30	216.1	605.0	79.5,79.5
40	96.74	94.92	89.01	86.05	87.39	88.93	90.53	94.50	30- 40	96.04	701.0	92.1,92.1
50	21.38	20.68	19.76	20.01	20.44	20.24	20.77	21.19	40- 50	36.33	737.4	96.8,96.8
60	11.38	11.03	11.01	11.14	11.43	11.35	11.05	11.13	50- 60	13.18	750.5	98.6,98.6
70	4.669	4.394	4.368	4.464	4.517	4.647	4.536	4.474	60- 70	7.705	758.2	99.6,99.6
80	1.224	1.141	1.140	1.169	1.151	1.206	1.170	1.153	70- 80	2.719	761.0	99.9,99.9
90	0.0007	0	0	0	0.0007	0	0	0	80- 90	0.4863	761.4	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:0.0510A P:11.400W PF:0.9800 Freq:50.00Hz Lamp Flux:761.442x1 lm		
NAME: SLDL280F-4030P-BGDD11	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	3872	3354
80	5637	5226
75	7864	7355
70	10913	10166
65	15013	14056
60	18195	17533
55	20302	19604
50	26597	24471
45	53195	47776

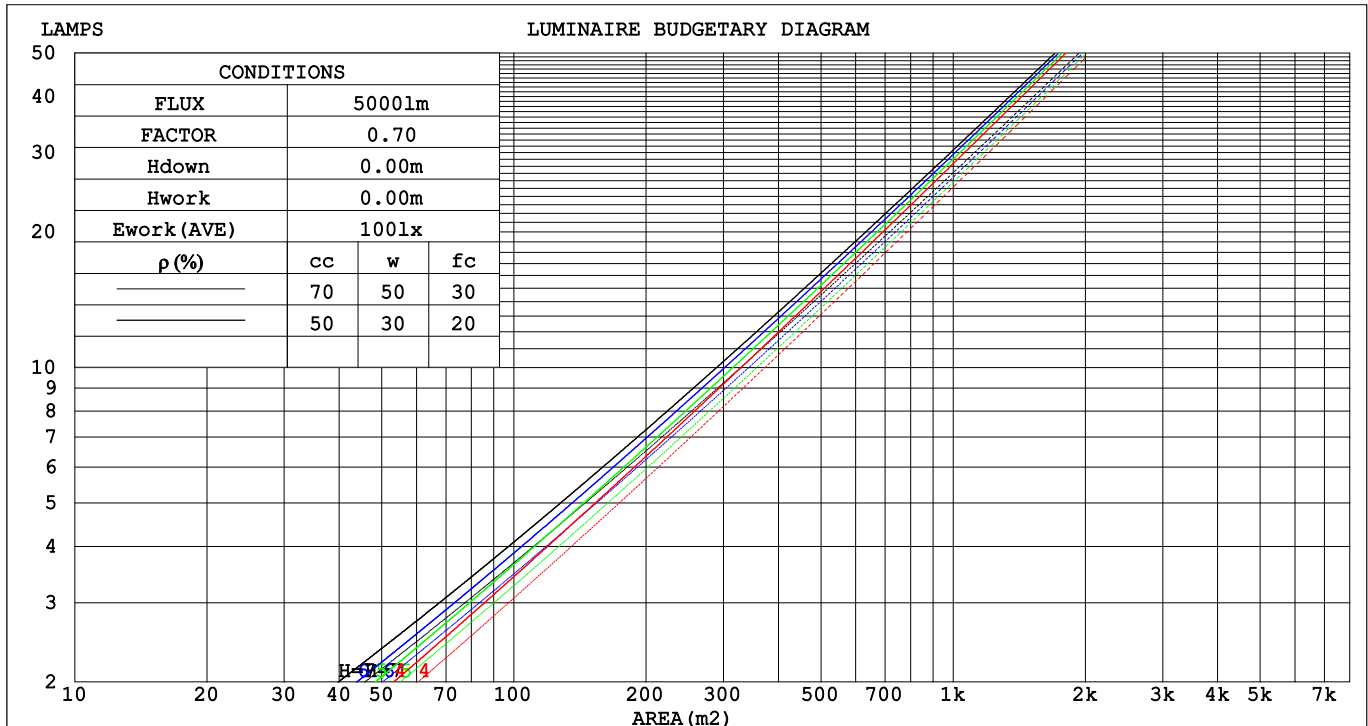
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Jason  
 Test Date: 21 October 2020

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:0.0510A P:11.400W PF:0.9800 Freq:50.00Hz Lamp Flux:761.442x1 lm		
NAME: SLDL280F-4030P-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			Coefficients of Utilization(CU)												
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.03	1.02	1.01	.00	.99	.98	.97	.96	.94
2.0	1.04	1.00	.97	1.02	.99	.96	.99	.96	.94	.96	.94	.92	.93	.92	.90	.88
3.0	.98	.93	.89	.96	.92	.88	.94	.90	.87	.91	.88	.86	.89	.87	.84	.83
4.0	.92	.87	.83	.91	.86	.82	.89	.85	.81	.87	.83	.80	.85	.82	.79	.78
5.0	.87	.81	.77	.86	.81	.77	.84	.80	.76	.82	.79	.76	.81	.78	.75	.74
6.0	.82	.77	.73	.81	.76	.72	.80	.75	.72	.79	.74	.71	.77	.74	.71	.70
7.0	.78	.72	.68	.77	.72	.68	.76	.71	.68	.75	.71	.68	.74	.70	.67	.66
8.0	.74	.69	.65	.74	.68	.65	.72	.68	.64	.71	.67	.64	.71	.67	.64	.63
9.0	.71	.65	.62	.70	.65	.61	.69	.65	.61	.68	.64	.61	.68	.64	.61	.60
10.0	.67	.62	.59	.67	.62	.58	.66	.62	.58	.65	.61	.58	.65	.61	.58	.57



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:0.0510A P:11.400W PF:0.9800 Freq:50.00Hz Lamp Flux:761.442x1 lm																	
NAME: SLDL280F-4030P-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	.171	.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	.108	.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	.061	.039	.023	.035	.023	.014	.011	.007	.005		
9.0	.096	.058	.032	.083	.050	.028	.058	.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:0.0510A P:11.400W PF:0.9800 Freq:50.00Hz Lamp Flux:761.442x1 lm											
NAME: SLDL280F-4030P-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	2H	21.6	22.5	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	21.5	22.3	21.7	22.5	22.7
	4H	21.6	22.4	21.9	22.6	22.8	21.4	22.2	21.7	22.4	22.6
	6H	21.6	22.3	21.9	22.5	22.8	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	21.7	22.3	22.6
	12H	21.5	22.2	21.8	22.4	22.7	21.3	22.0	21.6	22.2	22.5
4H	2H	21.5	22.3	21.8	22.5	22.7	21.3	22.1	21.6	22.3	22.5
	3H	21.6	22.3	21.9	22.5	22.8	21.4	22.1	21.7	22.4	22.6
	4H	21.6	22.2	21.9	22.5	22.8	21.4	22.0	21.8	22.3	22.6
	6H	21.6	22.1	21.9	22.4	22.8	21.4	21.9	21.8	22.3	22.6
	8H	21.5	22.0	21.9	22.4	22.7	21.4	21.9	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	21.5	21.9	21.9	22.3	22.7	21.3	21.7	21.7	22.1	22.5
	8H	21.4	21.8	21.9	22.2	22.7	21.3	21.6	21.7	22.1	22.5
	12H	21.4	21.7	21.9	22.2	22.6	21.2	21.6	21.7	22.0	22.5
12H	4H	21.5	21.9	21.9	22.3	22.7	21.3	21.7	21.7	22.1	22.5
	6H	21.4	21.8	21.9	22.2	22.6	21.3	21.6	21.7	22.0	22.5
	8H	21.4	21.7	21.9	22.2	22.6	21.2	21.5	21.7	22.0	22.5
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, 761.4 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = -0.9$ )

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:0.0510A P:11.400W PF:0.9800 Freq:50.00Hz Lamp Flux:761.442x1 lm		
NAME: SLDL280F-4030P-BGDD11	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

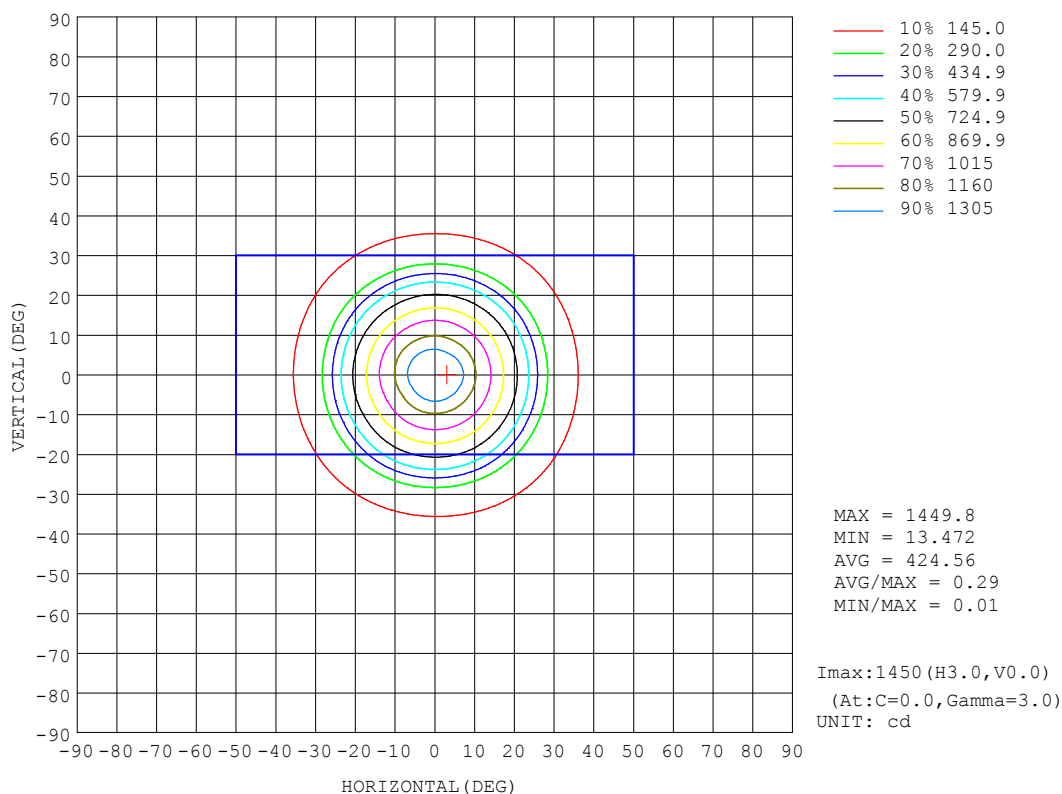
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	87	80	76	86	80	76	85	80	76	72
0.80	94	88	84	93	88	84	92	87	84	80
1.00	99	93	89	98	92	89	96	92	88	84
1.25	103	97	94	102	97	94	100	96	93	88
1.50	105	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:0.0510A P:11.400W PF:0.9800 Freq:50.00Hz Lamp Flux:761.442x1 lm		
NAME: SLDL280F-4030P-BGDD11	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



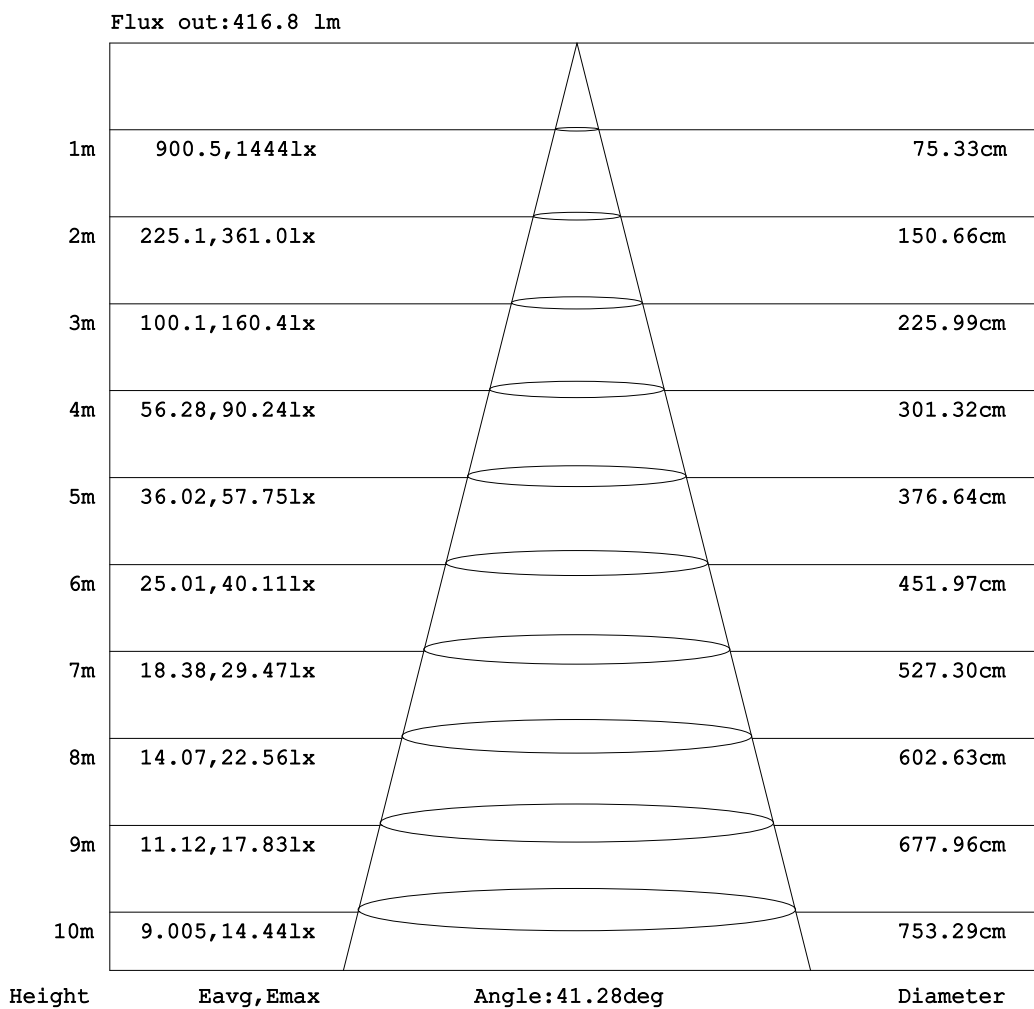
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:21 October 2020

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:0.0510A P:11.400W PF:0.9800 Freq:50.00Hz Lamp Flux:761.442x1 lm		
NAME: SLDL280F-4030P-BGDD11	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



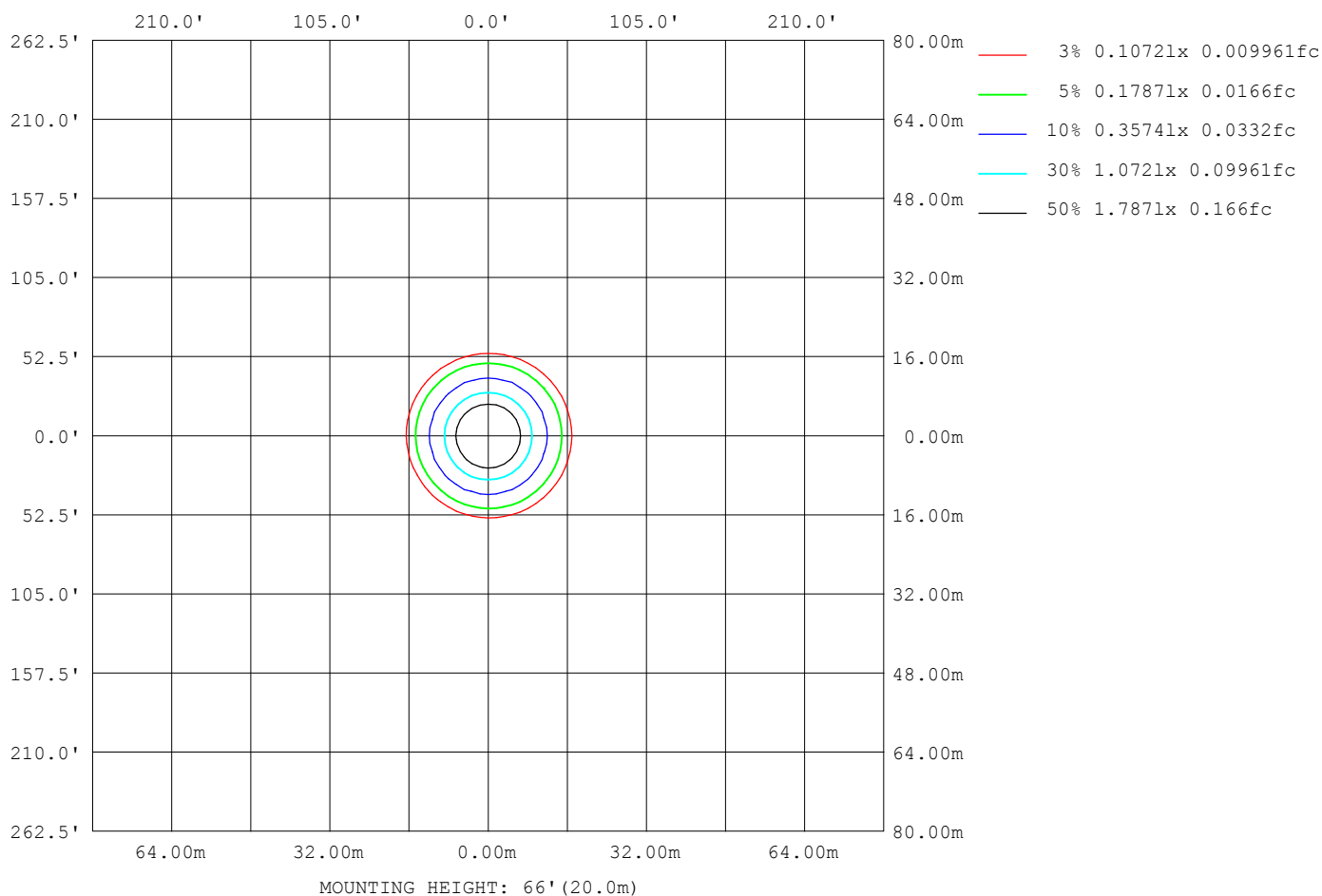
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date: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:0.0510A P:11.400W PF:0.9800 Freq:50.00Hz Lamp Flux:761.442x1 lm		
NAME: SLDL280F-4030P-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: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:

### LED Avg.L Report

Test:U:230.00V I:0.0510A P:11.400W PF:0.9800 Freq:50.00Hz Lamp Flux:761.442x1 lm		
NAME: SLDL280F-4030P-BGDD11	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

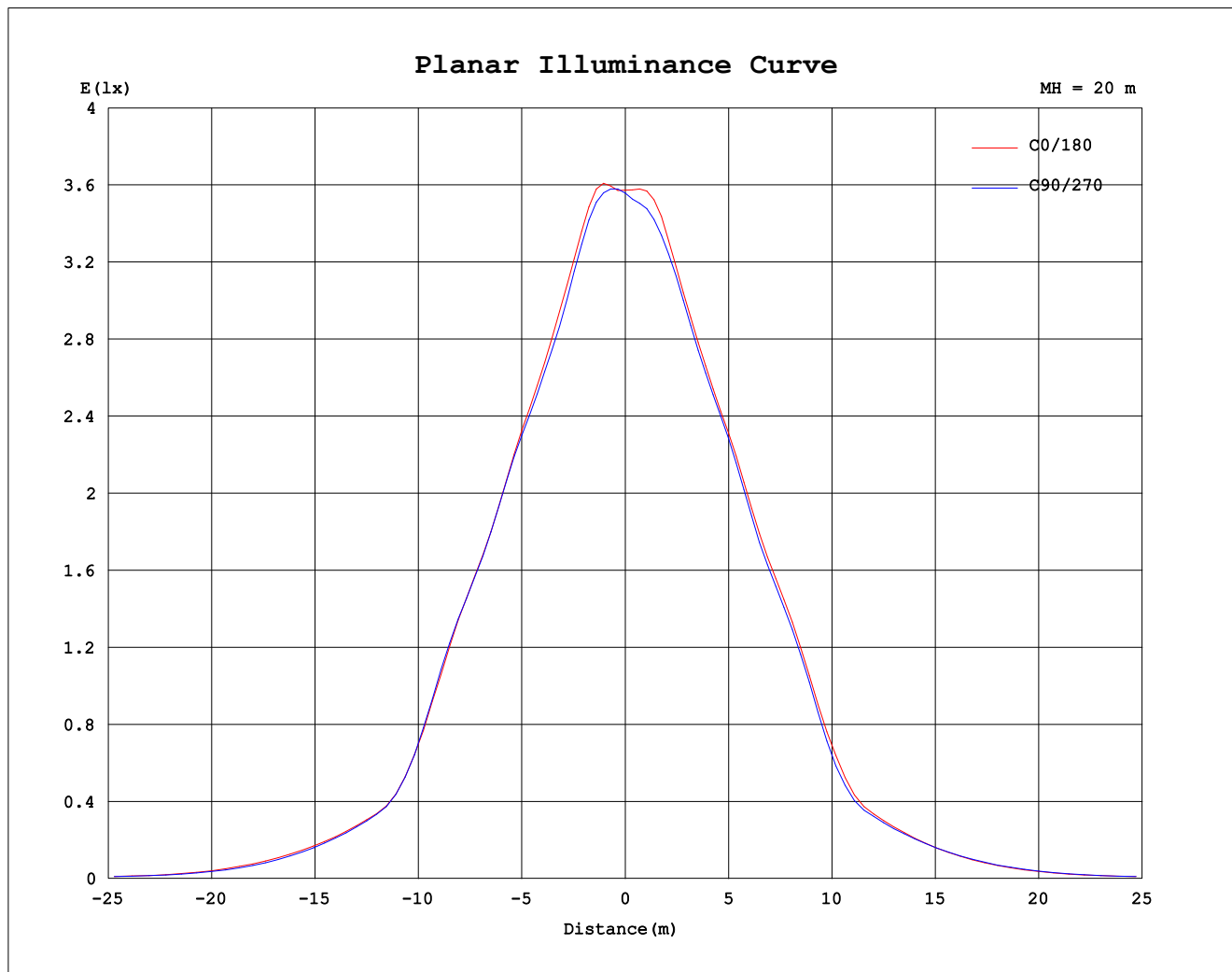
AvgL	cd/m2
L_0~180 (65) av	14825
L_0~180 (75) av	7675
L_0~180 (85) av	3646
L_90~270 (65) av	14310
L_90~270 (75) av	7456
L_90~270 (85) av	3538
L_45 (65) av	14475
L_45 (75) av	7534
L_45 (85) av	3571

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:

```