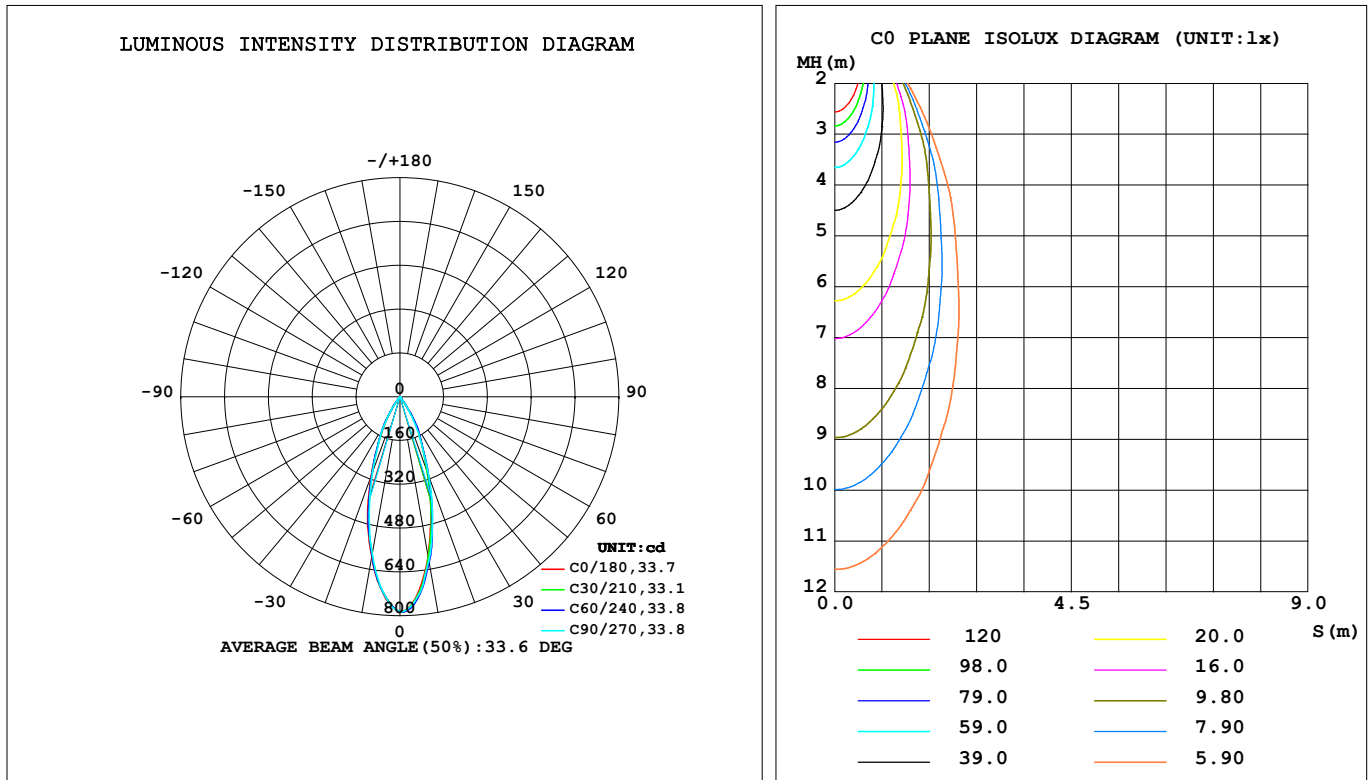


## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:229.90V I:0.0290A P:6.3000W PF:0.9550 Freq:50.00Hz Lamp Flux:304.433x1 lm		
NAME: SLDL216F-30SDP-TWD09	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 48.32 lm/W
MODEL		I <sub>max</sub> (cd)	787.2	S/MH (C0/180)		0.56
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)		0.54
RATED VOLTAGE (V)		TOTAL FLUX (lm)	304.43	η UP,DN (C0-180)		0.0,50.6
NOMINAL FLUX (lm)	304.433	CIE CLASS	DIRECT	η UP,DN (C180-360)		0.0,49.4
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: 22 July 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:

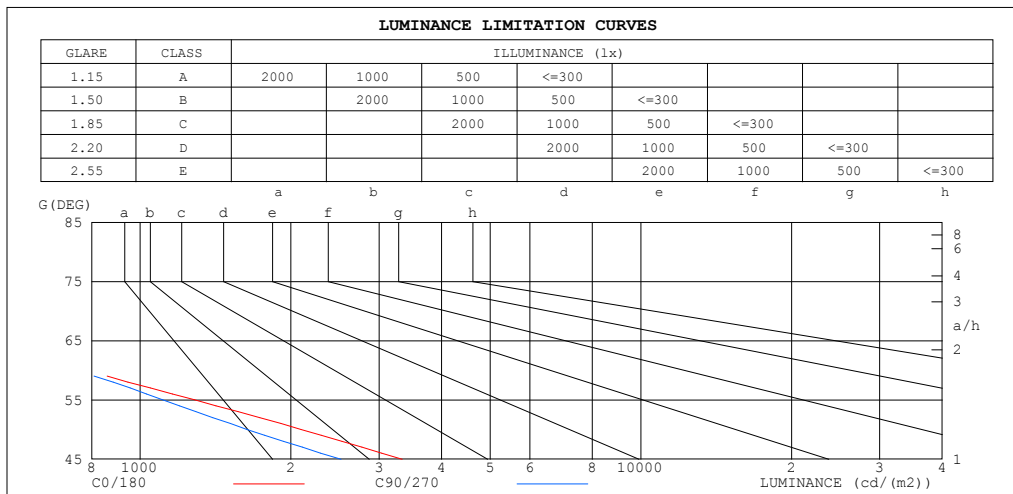
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	593.3	605.9	609.3	605.6	594.1	589.6	584.9	583.3	0- 10	64.94	64.94	21.3,21.3
20	298.6	297.8	308.6	304.1	309.1	301.1	294.4	289.7	10- 20	122.4	187.4	61.5,61.5
30	107.5	118.7	102.7	102.7	103.7	111.5	104.3	103.7	20- 30	86.13	273.5	89.8,89.8
40	6.436	6.200	5.904	6.473	6.143	5.626	6.737	6.399	30- 40	27.55	301.0	98.9,98.9
50	1.686	1.414	1.321	1.381	1.568	1.283	1.446	1.443	40- 50	2.172	303.2	99.6,99.6
60	0.4871	0.4655	0.4580	0.4265	0.4816	0.4425	0.5195	0.4327	50- 60	0.7598	304.0	99.8,99.8
70	0.1725	0.1590	0.1781	0.1828	0.1967	0.1779	0.1881	0.1601	60- 70	0.2708	304.2	99.9,99.9
80	0.0932	0.0826	0.0885	0.0999	0.1118	0.1003	0.0967	0.0847	70- 80	0.1380	304.4	100,100
90	0	0	0	0	0	0	0	0	80- 90	0.0525	304.4	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:22 July 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:0.0290A P:6.3000W PF:0.9550 Freq:50.00Hz Lamp Flux:304.433x1 lm		
NAME: SLDL216F-30SDP-TWD09	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	505	436
80	429	405
75	391	395
70	403	414
65	498	492
60	779	728
55	1283	1109
50	2096	1634
45	3338	2520

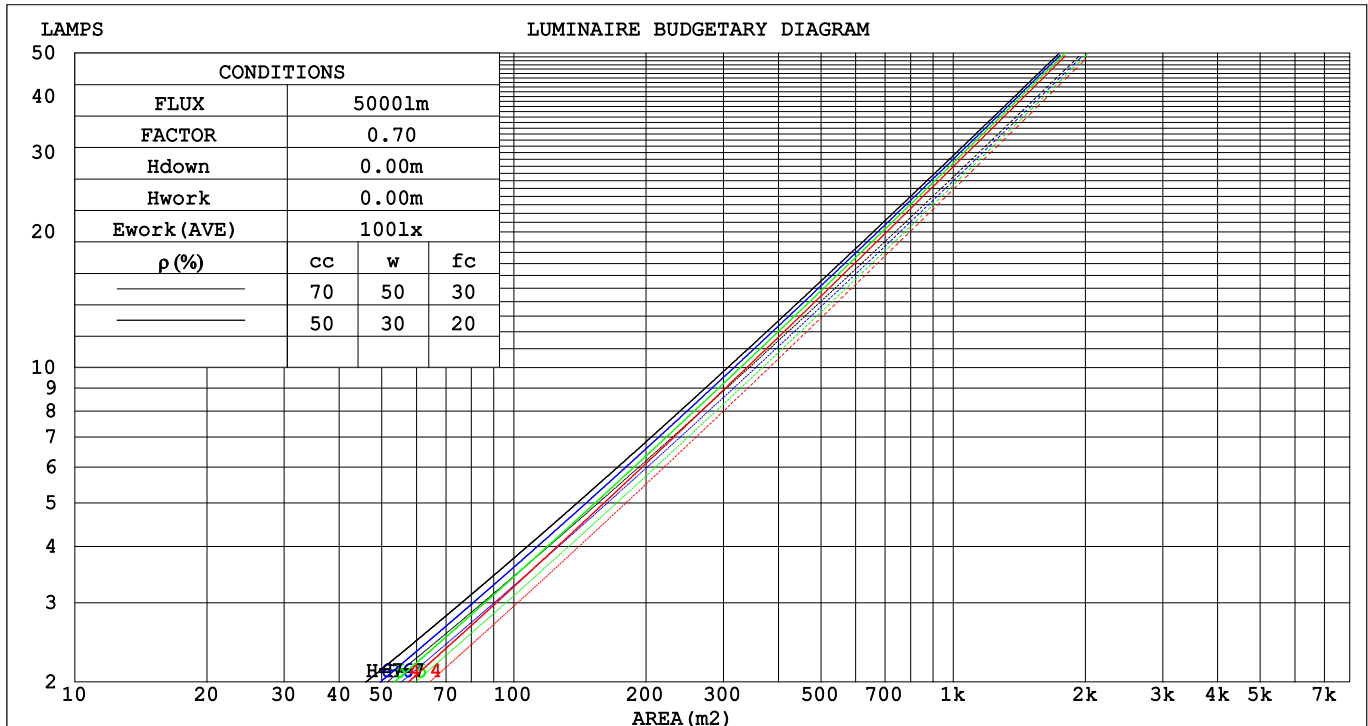
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:22 July 2020

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:0.0290A P:6.3000W PF:0.9550 Freq:50.00Hz Lamp Flux:304.433x1 lm		
NAME: SLDL216F-30SDP-TWD09	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	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.04	1.03	1.02	1.01	1.00	.99	.98	.97	.95
2.0	1.06	1.03	.00	1.04	1.01	.99	1.01	.99	.96	.98	.96	.94	.95	.94	.92	.91
3.0	1.00	.96	.93	.99	.95	.92	.97	.93	.91	.94	.92	.89	.92	.90	.88	.87
4.0	.95	.91	.87	.94	.90	.87	.92	.89	.86	.90	.87	.85	.89	.86	.84	.83
5.0	.91	.86	.83	.90	.86	.82	.88	.85	.82	.87	.83	.81	.85	.83	.80	.79
6.0	.87	.82	.78	.86	.82	.78	.85	.81	.78	.83	.80	.77	.82	.79	.77	.76
7.0	.83	.78	.75	.82	.78	.75	.81	.77	.74	.80	.77	.74	.79	.76	.73	.72
8.0	.80	.75	.71	.79	.74	.71	.78	.74	.71	.77	.73	.71	.76	.73	.70	.69
9.0	.76	.72	.68	.76	.71	.68	.75	.71	.68	.74	.71	.68	.74	.70	.68	.67
10.0	.73	.69	.66	.73	.69	.65	.72	.68	.65	.72	.68	.65	.71	.68	.65	.64



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:22 July 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:0.0290A P:6.3000W PF:0.9550 Freq:50.00Hz Lamp Flux:304.433x1 lm																	
NAME: SLDL216F-30SDP-TWD09									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	.153	.087	.028	.146	.083	.026	.134	.077	.024	.122	.070	.023	.112	.065	.021	
2.0	.144	.079	.024	.138	.076	.023	.128	.071	.022	.118	.066	.021	.109	.062	.019	
3.0	.135	.072	.022	.131	.070	.021	.122	.066	.020	.114	.062	.019	.106	.059	.018	
4.0	.128	.067	.020	.124	.065	.019	.117	.062	.018	.110	.059	.018	.103	.056	.017	
5.0	.122	.062	.018	.118	.061	.018	.112	.058	.017	.106	.056	.017	.100	.054	.016	
6.0	.116	.058	.017	.113	.057	.016	.107	.055	.016	.102	.053	.016	.097	.051	.015	
7.0	.111	.055	.016	.108	.054	.015	.103	.052	.015	.099	.051	.015	.094	.049	.014	
8.0	.106	.052	.015	.104	.051	.014	.099	.050	.014	.095	.048	.014	.091	.047	.014	
9.0	.102	.049	.014	.100	.049	.014	.096	.047	.013	.092	.046	.013	.089	.045	.013	
10.0	.098	.047	.013	.096	.046	.013	.092	.045	.013	.089	.044	.013	.086	.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	.169	.158	.147	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016		
2.0	.152	.133	.116	.131	.114	.100	.089	.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	.060	.039	.061	.042	.028	.035	.025	.017	.011	.008	.005		
8.0	.096	.062	.039	.083	.054	.034	.057	.038	.024	.033	.022	.014	.011	.007	.005		
9.0	.091	.057	.034	.078	.049	.029	.054	.035	.021	.032	.020	.012	.010	.007	.004		
10.0	.086	.052	.030	.074	.045	.026	.052	.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:22 July 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:0.0290A P:6.3000W PF:0.9550 Freq:50.00Hz Lamp Flux:304.433x1 lm											
NAME: SLDL216F-30SDP-TWD09					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		17.9	18.6	18.1	18.8	18.9	17.8	18.6	18.0	18.7	18.9
	3H	17.7	18.4	18.0	18.6	18.8	17.6	18.3	17.9	18.5	18.7
	4H	17.6	18.3	17.9	18.5	18.7	17.6	18.2	17.8	18.4	18.7
	6H	17.5	18.2	17.8	18.4	18.7	17.5	18.1	17.8	18.3	18.6
	8H	17.5	18.1	17.8	18.4	18.6	17.4	18.0	17.7	18.3	18.5
	12H	17.5	18.1	17.8	18.3	18.6	17.4	18.0	17.7	18.2	18.5
4H	2H	17.6	18.3	17.9	18.5	18.7	17.6	18.2	17.8	18.4	18.7
	3H	17.5	18.0	17.8	18.3	18.6	17.4	18.0	17.7	18.2	18.5
	4H	17.4	17.9	17.7	18.2	18.5	17.3	17.8	17.6	18.1	18.4
	6H	17.3	17.7	17.6	18.1	18.4	17.2	17.7	17.6	18.0	18.3
	8H	17.2	17.7	17.6	18.0	18.4	17.2	17.6	17.5	17.9	18.3
	12H	17.2	17.6	17.6	17.9	18.3	17.1	17.5	17.5	17.9	18.3
8H	4H	17.2	17.7	17.6	18.0	18.4	17.1	17.6	17.5	17.9	18.3
	6H	17.1	17.5	17.5	17.9	18.3	17.0	17.4	17.5	17.8	18.2
	8H	17.1	17.4	17.5	17.8	18.2	17.0	17.3	17.4	17.7	18.2
	12H	17.0	17.3	17.5	17.7	18.2	16.9	17.2	17.4	17.7	18.1
12H	4H	17.2	17.6	17.6	17.9	18.3	17.1	17.5	17.5	17.9	18.2
	6H	17.1	17.4	17.5	17.8	18.2	17.0	17.3	17.4	17.7	18.2
	8H	17.0	17.3	17.5	17.7	18.2	16.9	17.2	17.4	17.6	18.1
Variations with the observer position at spacings:											
S = 1.0H	+ 5.3 / - 8.0					+ 5.1 / - 9.6					
1.5H	+ 7.7 / - 6.9					+ 7.7 / - 8.0					
2.0H	+ 4.6 / - 3.7					+ 3.5 / - 3.3					

CIE Pub.117, 304.4 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -4.1)

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:22 July 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:0.0290A P:6.3000W PF:0.9550 Freq:50.00Hz Lamp Flux:304.433x1 lm		
NAME: SLDL216F-30SDP-TWD09	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

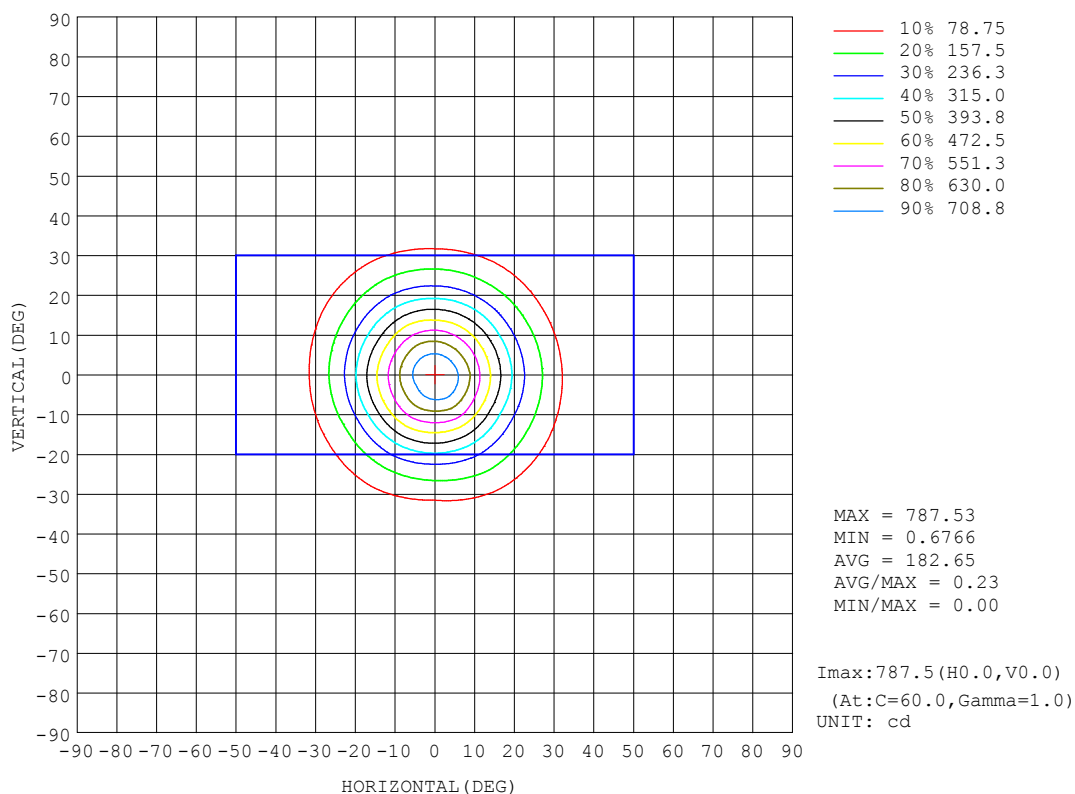
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	91	85	82	90	85	82	90	85	82	78
0.80	98	93	89	97	92	89	96	92	89	86
1.00	102	97	93	101	96	93	99	96	93	89
1.25	105	101	97	104	100	97	102	99	96	92
1.50	108	103	100	106	103	100	104	101	99	95
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	107	104	107	104	102	97
3.00	113	110	107	111	108	106	108	105	104	98
4.00	115	112	110	112	110	109	109	107	106	99
5.00	116	114	112	114	112	110	110	108	107	100
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:22 July 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:0.0290A P:6.3000W PF:0.9550 Freq:50.00Hz Lamp Flux:304.433x1 lm		
NAME: SLDL216F-30SDP-TWD09	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



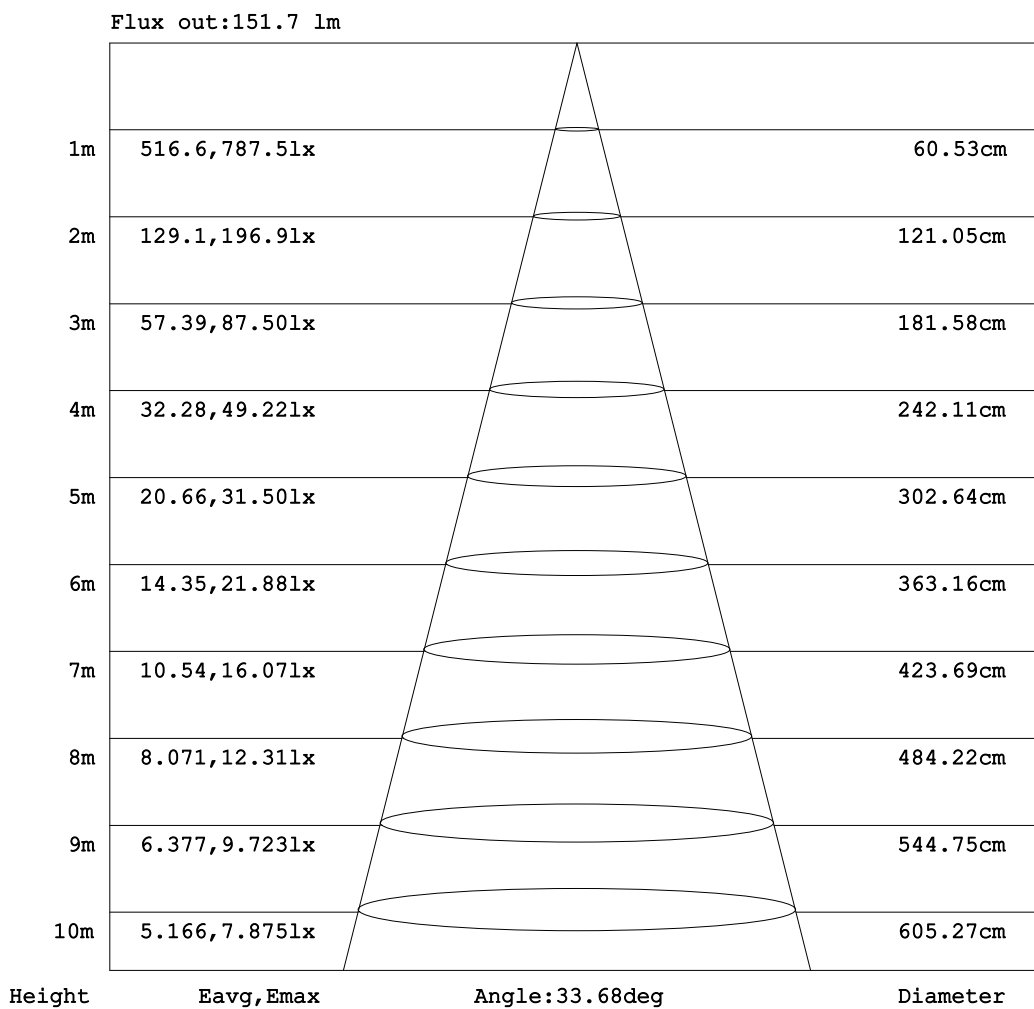
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:22 July 2020

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:0.0290A P:6.3000W PF:0.9550 Freq:50.00Hz Lamp Flux:304.433x1 lm		
NAME: SLDL216F-30SDP-TWD09	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



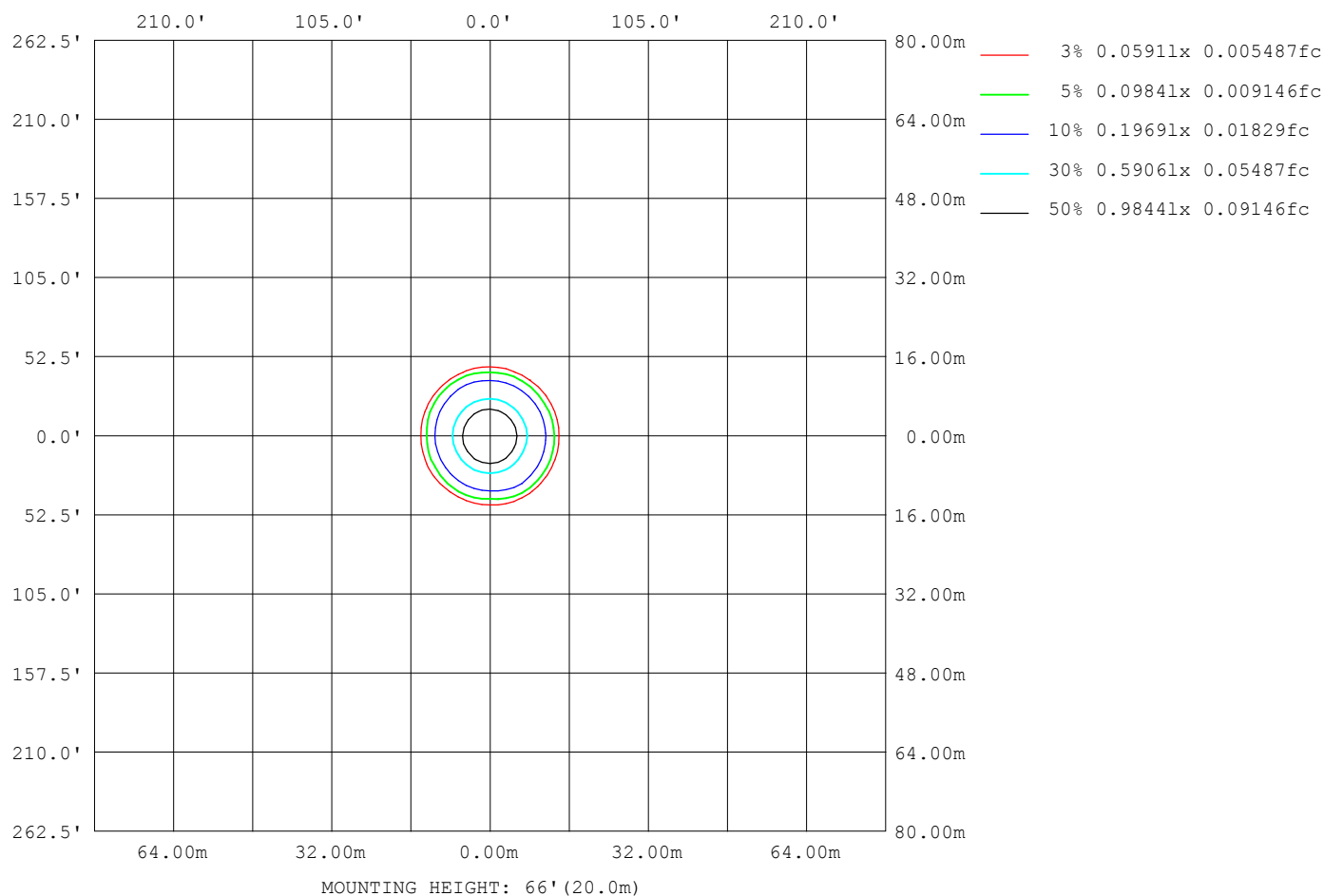
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:22 July 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:0.0290A P:6.3000W PF:0.9550 Freq:50.00Hz Lamp Flux:304.433x1 lm		
NAME: SLDL216F-30SDP-TWD09	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:22 July 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:0.0290A P:6.3000W PF:0.9550 Freq:50.00Hz Lamp Flux:304.433x1 lm		
NAME: SLDL216F-30SDP-TWD09	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

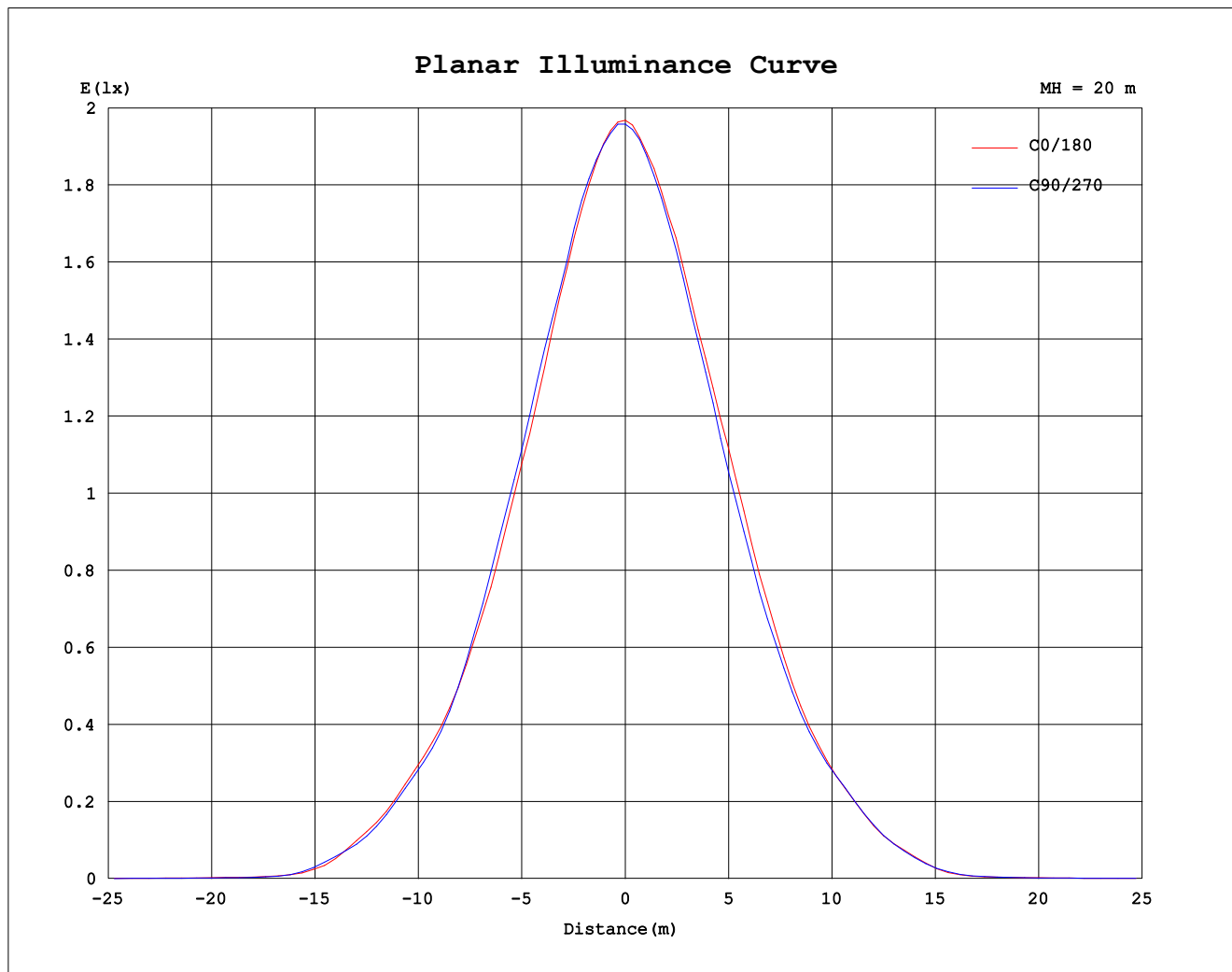
AvgL	cd/m2
L_0~180 (65) av	513
L_0~180 (75) av	424
L_0~180 (85) av	541
L_90~270 (65) av	511
L_90~270 (75) av	406
L_90~270 (85) av	485
L_45 (65) av	461
L_45 (75) av	383
L_45 (85) av	486

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:22 July 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: 22 July 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:

```

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