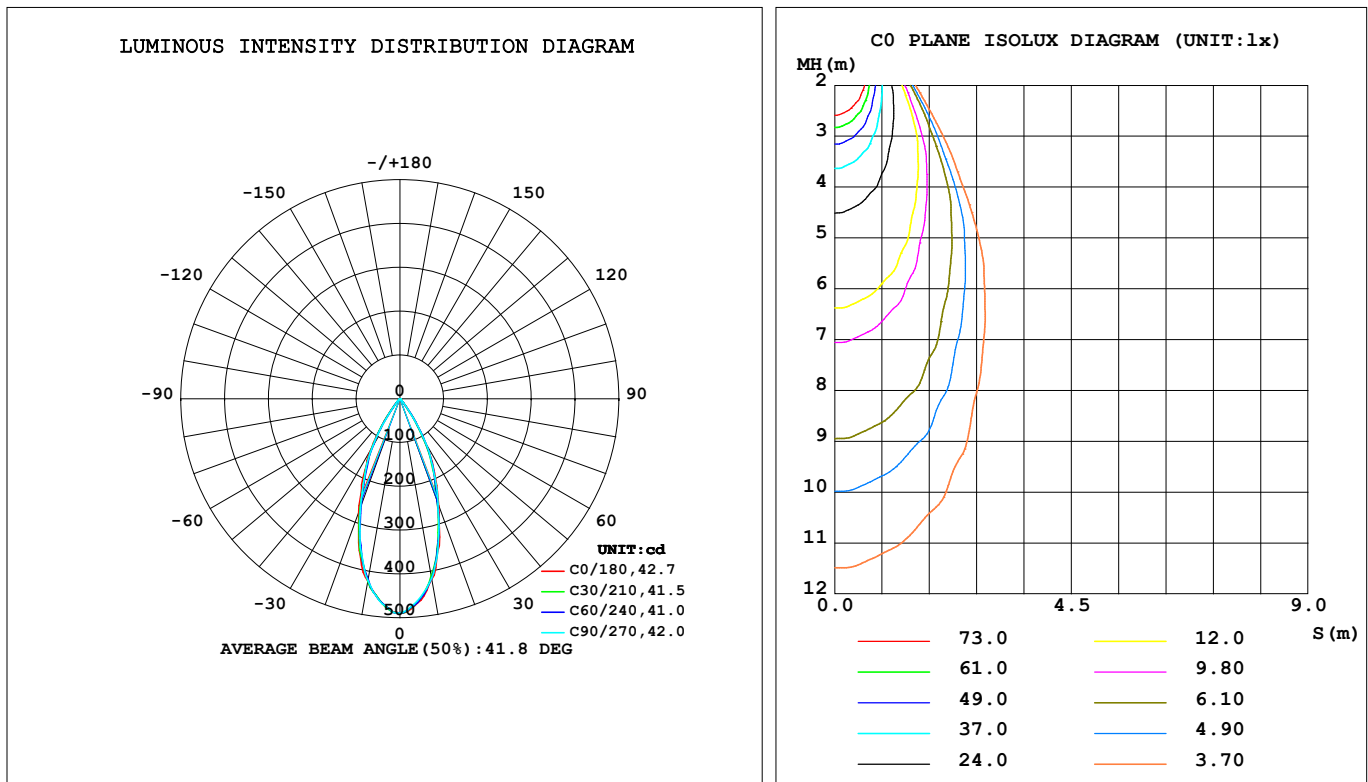


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:229.90V I:0.0220A P:4.5000W PF:0.9190 Freq:50.00Hz Lamp Flux:269.642x1 lm		
NAME: SLDL216F-4030P-TWD08	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 59.92 lm/W
MODEL		I <sub>max</sub> (cd)	489.2	S/MH (C0/180)		0.69
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)		0.68
RATED VOLTAGE (V)		TOTAL FLUX (lm)	269.64	η UP,DN (C0-180)		0.0,49.4
NOMINAL FLUX (lm)	269.642	CIE CLASS	DIRECT	η UP,DN (C180-360)		0.0,50.6
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM		0.75
TEST VOLTAGE (V)		η down (%)	100.0	CIBSE SHR MAX		0.75



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:

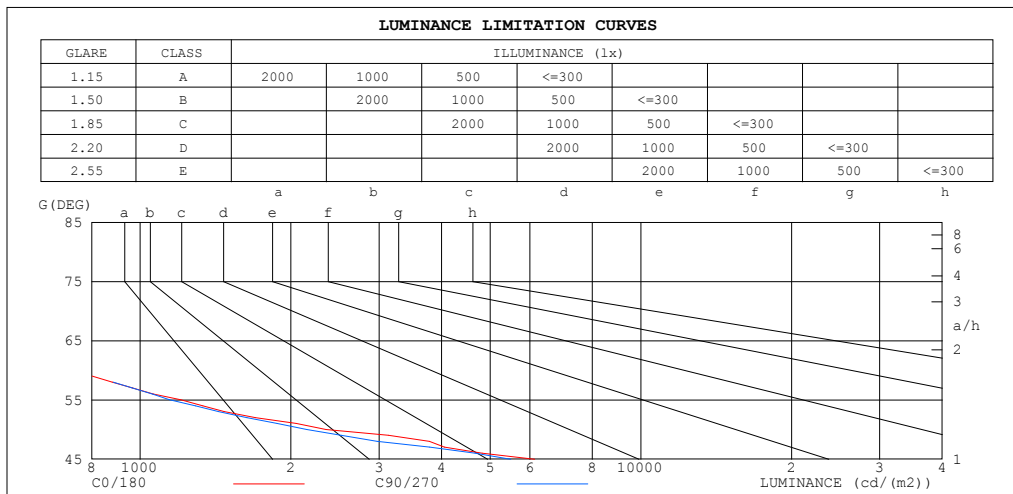
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	418.6	413.8	416.4	422.8	422.7	421.3	421.4	424.5	0- 10	43.15	43.15	16,16
20	260.1	248.8	255.8	267.9	275.8	262.9	263.7	263.5	10- 20	95.51	138.7	51.4,51.4
30	117.5	114.7	120.2	136.9	131.1	123.4	125.0	127.0	20- 30	86.59	225.2	83.5,83.5
40	16.40	14.79	16.23	19.78	19.36	18.19	17.01	17.06	30- 40	37.80	263.0	97.6,97.6
50	1.901	1.870	1.739	2.139	2.289	2.194	2.172	1.968	40- 50	5.298	268.3	99.5,99.5
60	0.4576	0.4296	0.4220	0.4520	0.4665	0.4880	0.5188	0.4676	50- 60	0.8745	269.2	99.8,99.8
70	0.1561	0.1536	0.1452	0.1432	0.1506	0.1682	0.1712	0.1557	60- 70	0.2618	269.5	99.9,99.9
80	0.0799	0.0739	0.0739	0.0779	0.0791	0.0779	0.0798	0.0740	70- 80	0.1176	269.6	100,100
90	0	0	0	0	0	0	0	0	80- 90	0.0410	269.6	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:0.0220A P:4.5000W PF:0.9190 Freq:50.00Hz Lamp Flux:269.642x1 lm		
NAME: SLDL216F-4030P-TWD08	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	419	350
80	366	339
75	344	312
70	363	338
65	453	431
60	728	672
55	1205	1144
50	2351	2154
45	6142	5495

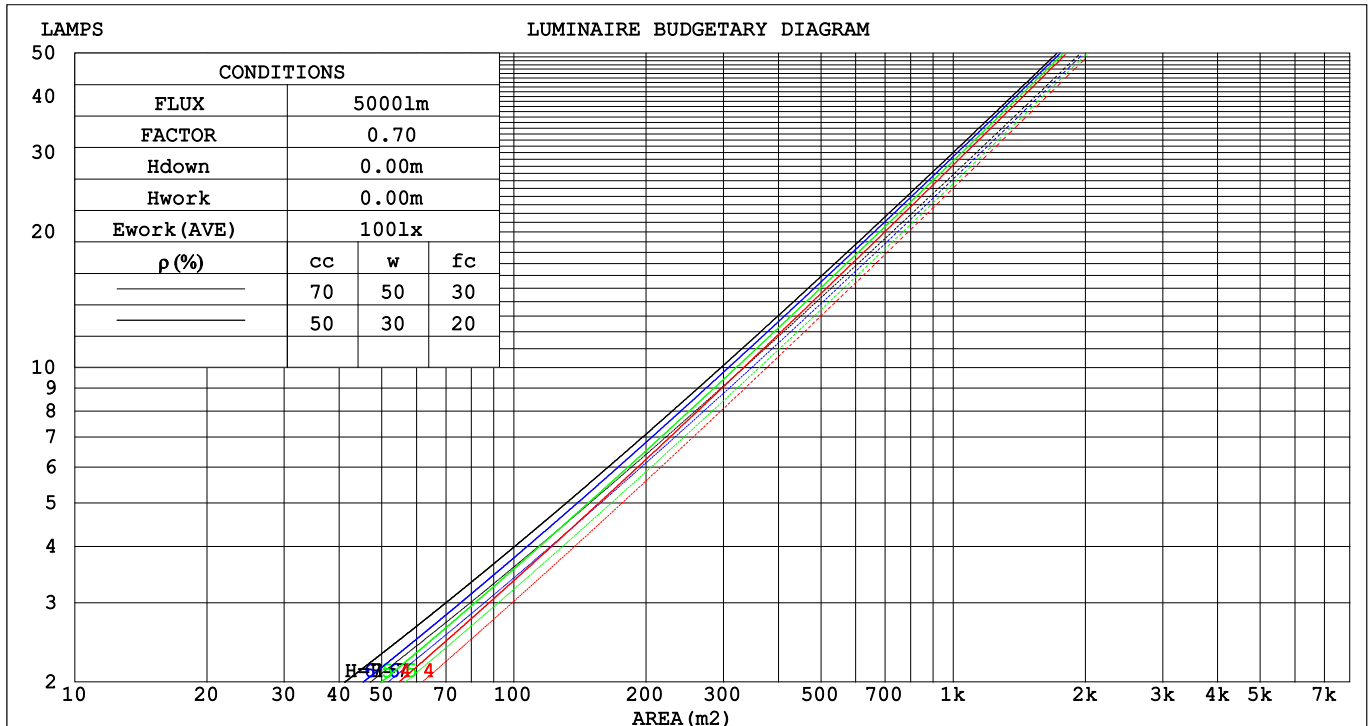
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:22 July 2020

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:0.0220A P:4.5000W PF:0.9190 Freq:50.00Hz Lamp Flux:269.642x1 lm		
NAME: SLDL216F-4030P-TWD08	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: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:0.0220A P:4.5000W PF:0.9190 Freq:50.00Hz Lamp Flux:269.642x1 lm																	
NAME: SLDL216F-4030P-TWD08									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	.162	.092	.029	.155	.089	.028	.143	.082	.026	.131	.076	.024	.121	.070	.023	
2.0	.154	.084	.026	.148	.082	.025	.138	.077	.024	.128	.072	.022	.119	.067	.021	
3.0	.146	.078	.023	.141	.076	.023	.132	.072	.022	.124	.068	.021	.116	.064	.020	
4.0	.138	.072	.021	.134	.070	.021	.127	.067	.020	.120	.064	.019	.113	.062	.019	
5.0	.132	.067	.019	.128	.066	.019	.122	.063	.019	.116	.061	.018	.110	.059	.018	
6.0	.126	.063	.018	.123	.062	.018	.117	.060	.017	.112	.058	.017	.107	.056	.017	
7.0	.120	.060	.017	.118	.059	.017	.113	.057	.016	.108	.055	.016	.103	.054	.016	
8.0	.115	.056	.016	.113	.056	.016	.109	.054	.015	.104	.053	.015	.100	.052	.015	
9.0	.111	.054	.015	.109	.053	.015	.105	.052	.015	.101	.051	.014	.097	.049	.014	
10.0	.106	.051	.014	.105	.051	.014	.101	.049	.014	.098	.048	.014	.094	.047	.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	.126	.100	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.154	.133	.115	.132	.114	.099	.090	.079	.069	.052	.046	.041	.017	.015	.013	
3.0	.141	.113	.092	.120	.098	.080	.083	.068	.056	.048	.040	.033	.015	.013	.011	
4.0	.130	.099	.075	.111	.085	.065	.076	.059	.046	.044	.035	.027	.014	.011	.009	
5.0	.120	.087	.062	.103	.075	.054	.071	.052	.038	.041	.031	.023	.013	.010	.007	
6.0	.113	.077	.052	.097	.067	.045	.067	.047	.032	.039	.028	.019	.012	.009	.006	
7.0	.106	.069	.044	.091	.060	.038	.063	.042	.027	.037	.025	.016	.012	.008	.005	
8.0	.100	.063	.038	.086	.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	.090	.053	.029	.078	.046	.025	.054	.033	.018	.031	.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:0.0220A P:4.5000W PF:0.9190 Freq:50.00Hz Lamp Flux:269.642x1 lm											
NAME: SLDL216F-4030P-TWD08					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	19.7	20.5	19.9	20.7	20.8	20.0	20.9	20.2	21.0	21.2
	3H	19.5	20.3	19.8	20.5	20.7	19.9	20.6	20.1	20.8	21.0
	4H	19.4	20.2	19.7	20.4	20.6	19.8	20.5	20.0	20.7	20.9
	6H	19.4	20.0	19.6	20.3	20.5	19.7	20.4	20.0	20.6	20.9
	8H	19.3	20.0	19.6	20.2	20.5	19.6	20.3	20.0	20.6	20.8
	12H	19.3	19.9	19.6	20.2	20.4	19.6	20.2	19.9	20.5	20.8
4H	2H	19.4	20.2	19.7	20.4	20.6	19.8	20.5	20.0	20.7	20.9
	3H	19.3	19.9	19.6	20.2	20.4	19.6	20.2	19.9	20.5	20.8
	4H	19.2	19.7	19.5	20.0	20.3	19.5	20.1	19.9	20.4	20.7
	6H	19.1	19.6	19.5	19.9	20.3	19.4	19.9	19.8	20.3	20.6
	8H	19.0	19.5	19.4	19.8	20.2	19.4	19.8	19.8	20.2	20.5
	12H	19.0	19.4	19.4	19.8	20.2	19.3	19.7	19.7	20.1	20.5
8H	4H	19.0	19.5	19.4	19.8	20.2	19.4	19.8	19.8	20.2	20.5
	6H	18.9	19.3	19.3	19.7	20.1	19.3	19.6	19.7	20.0	20.5
	8H	18.9	19.2	19.3	19.6	20.1	19.2	19.5	19.7	20.0	20.4
	12H	18.8	19.1	19.3	19.5	20.0	19.2	19.4	19.6	19.9	20.4
12H	4H	19.0	19.4	19.4	19.8	20.2	19.3	19.7	19.7	20.1	20.5
	6H	18.9	19.2	19.3	19.6	20.1	19.2	19.5	19.6	20.0	20.4
	8H	18.8	19.1	19.3	19.5	20.0	19.1	19.4	19.6	19.9	20.4
Variations with the observer position at spacings:											
S = 1.0H		+ 4.6 / -13.2					+ 4.3 / -13.5				
1.5H		+ 7.1 / -11.4					+ 6.8 / -11.4				
2.0H		+ 6.9 / - 5.9					+ 6.1 / - 6.0				

CIE Pub.117, 269.6 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -4.6)

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:0.0220A P:4.5000W PF:0.9190 Freq:50.00Hz Lamp Flux:269.642x1 lm		
NAME: SLDL216F-4030P-TWD08	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

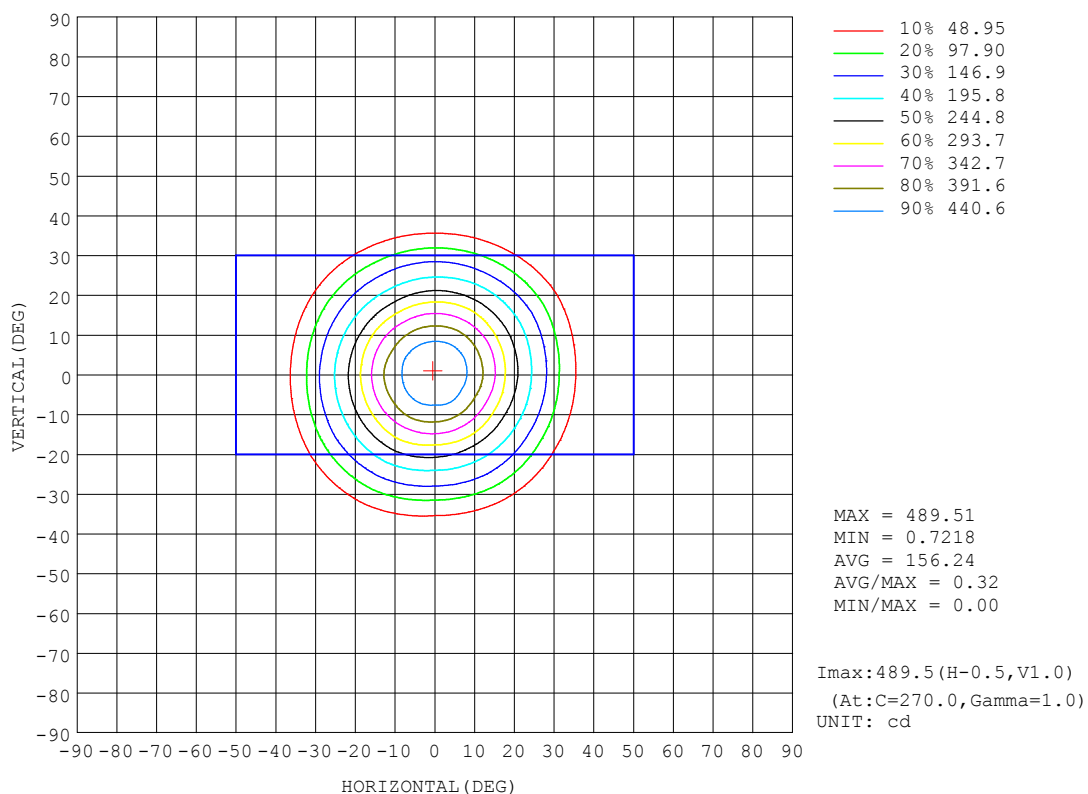
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	90	84	81	90	84	81	89	84	80	77
0.80	97	92	88	96	91	88	95	91	88	84
1.00	101	96	93	100	96	92	99	95	92	88
1.25	105	100	97	104	99	96	102	98	96	92
1.50	107	103	100	106	102	99	104	101	98	94
2.00	110	106	103	108	105	102	105	103	100	95
2.50	111	108	105	109	106	104	106	104	102	96
3.00	112	109	107	111	108	106	107	105	103	97
4.00	114	112	110	112	110	108	109	107	106	99
5.00	116	113	112	113	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:0.0220A P:4.5000W PF:0.9190 Freq:50.00Hz Lamp Flux:269.642x1 lm		
NAME: SLDL216F-4030P-TWD08	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



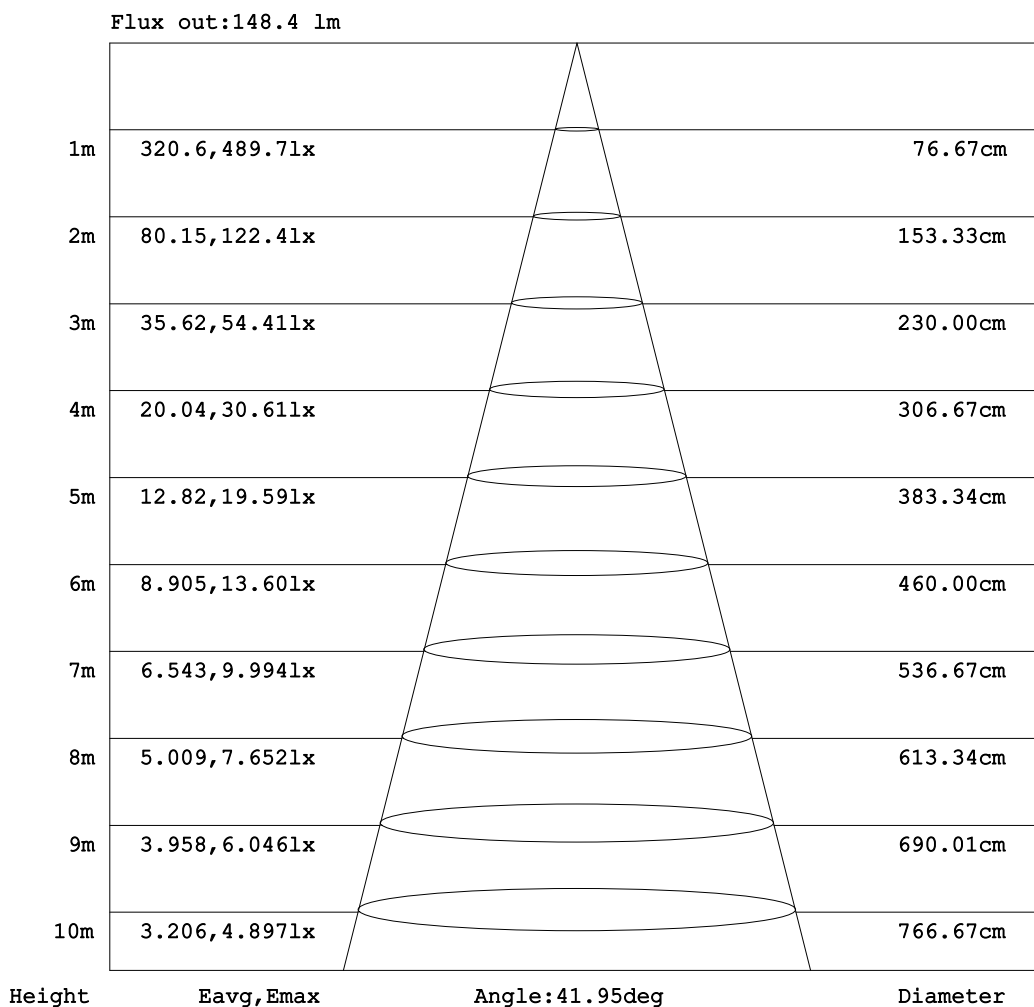
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:22 July 2020

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:0.0220A P:4.5000W PF:0.9190 Freq:50.00Hz Lamp Flux:269.642x1 lm		
NAME: SLDL216F-4030P-TWD08	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



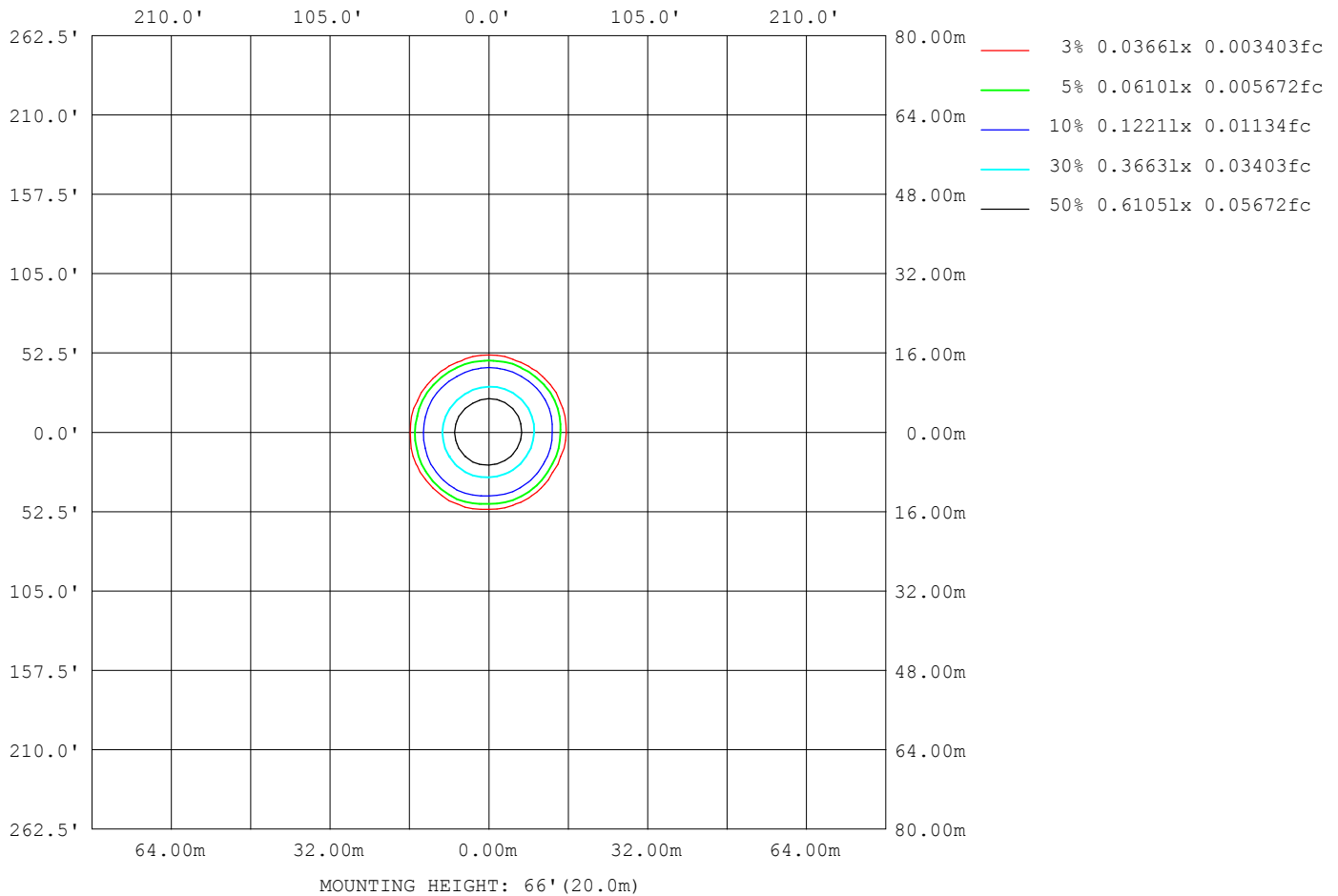
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.0220A P:4.5000W PF:0.9190 Freq:50.00Hz Lamp Flux:269.642x1 lm		
NAME: SLDL216F-4030P-TWD08	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:0.0220A P:4.5000W PF:0.9190 Freq:50.00Hz Lamp Flux:269.642x1 lm		
NAME: SLDL216F-4030P-TWD08	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

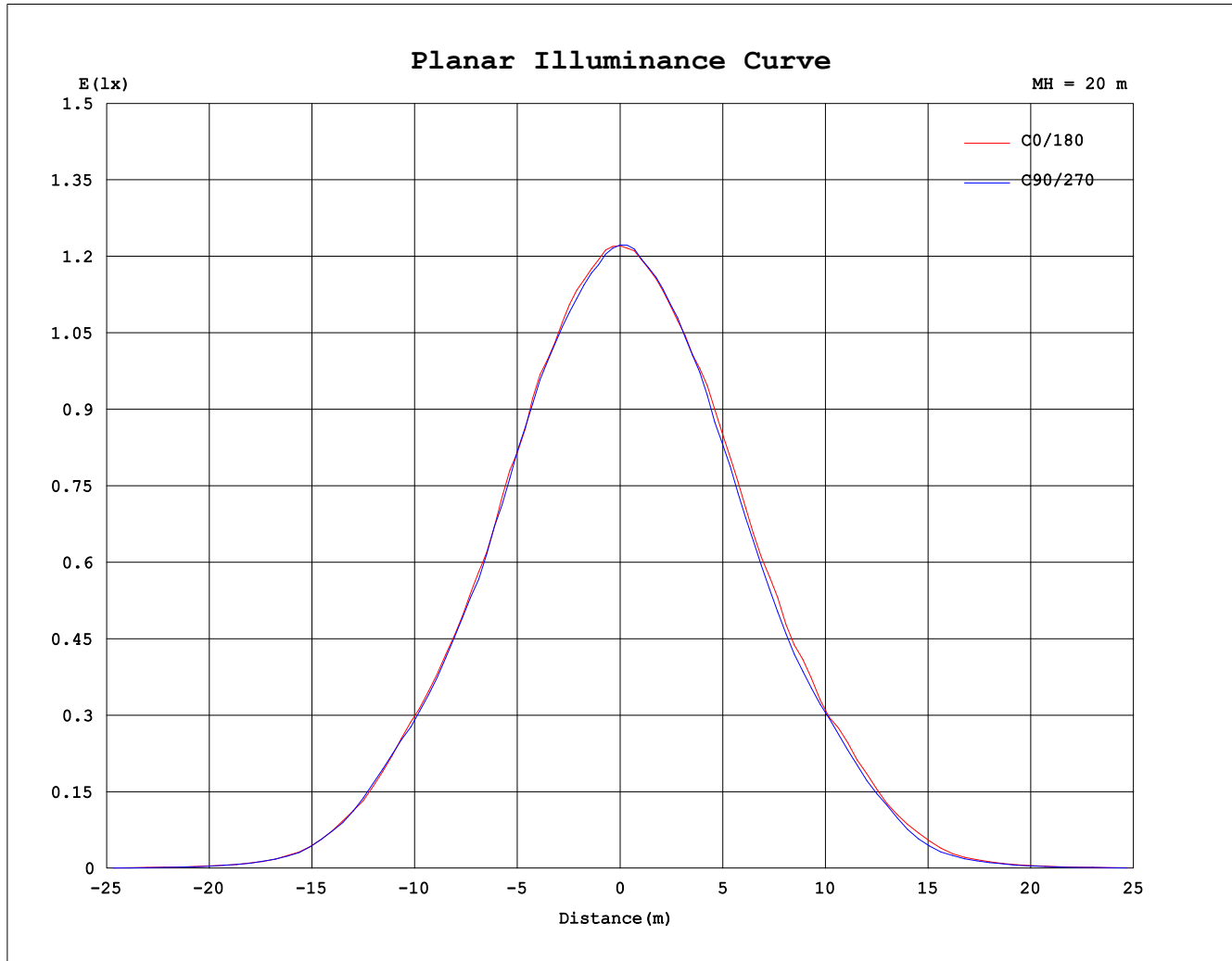
AvgL	cd/m2
L_0~180 (65) av	447
L_0~180 (75) av	339
L_0~180 (85) av	398
L_90~270 (65) av	471
L_90~270 (75) av	337
L_90~270 (85) av	374
L_45 (65) av	459
L_45 (75) av	333
L_45 (85) av	377

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:

```

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:

```