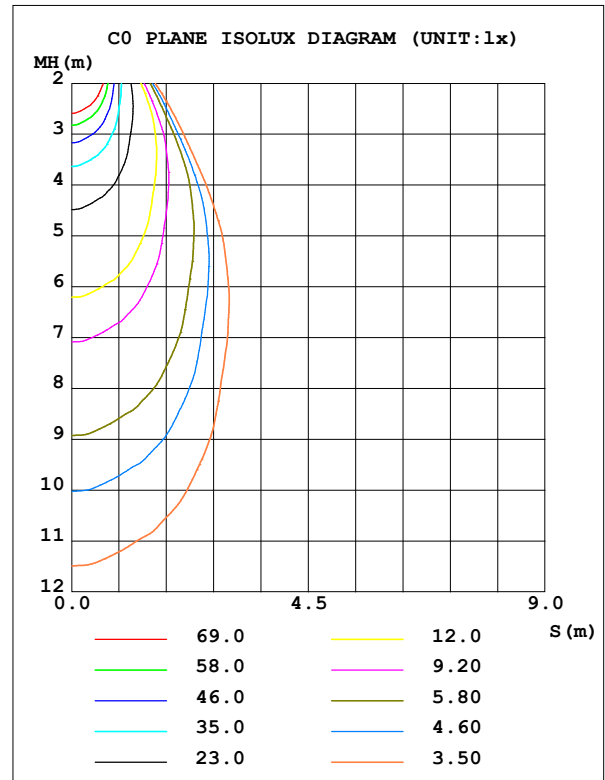
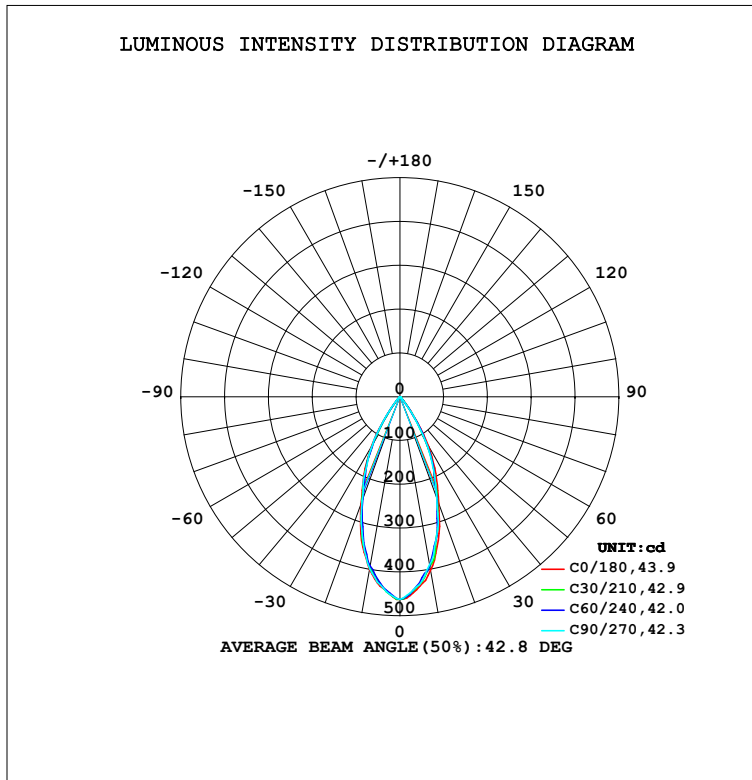


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:229.90V I:0.0220A P:4.5000W PF:0.9190 Freq:50.00Hz Lamp Flux:260.888x1 lm		
NAME: SLDL216T-4030P-TWD08	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 57.98 lm/W
MODEL		I <sub>max</sub> (cd)	462.5	S/MH (C0/180)		0.70
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)		0.68
RATED VOLTAGE (V)		TOTAL FLUX (lm)	260.89	η UP,DN (C0-180)		0.0,49.6
NOMINAL FLUX (lm)	260.888	CIE CLASS	DIRECT	η UP,DN (C180-360)		0.0,50.4
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: 24 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:

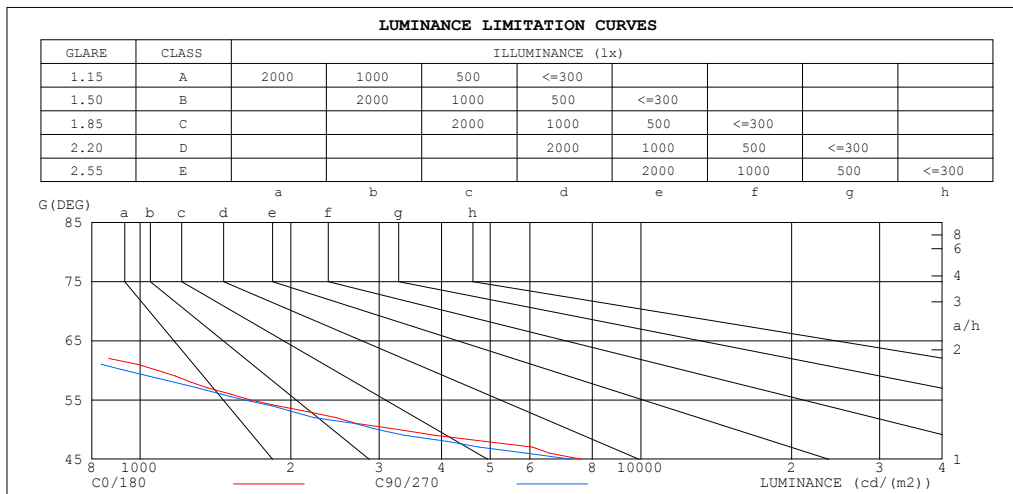
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	403.0	393.0	390.2	392.7	400.3	393.9	399.2	399.6	0- 10	40.51	40.51	15.5,15.5
20	258.6	249.3	246.8	254.8	261.7	251.6	252.0	255.2	10- 20	91.04	131.6	50.4,50.4
30	131.6	118.2	117.3	121.9	128.8	122.4	125.5	126.7	20- 30	84.58	216.1	82.8,82.8
40	20.56	17.72	16.74	16.52	17.44	17.54	19.37	17.73	30- 40	37.65	253.8	97.3,97.3
50	2.648	2.304	2.404	2.096	2.556	2.346	2.515	2.320	40- 50	5.641	259.4	99.4,99.4
60	0.6802	0.4938	0.5849	0.4389	0.6099	0.5277	0.6620	0.4858	50- 60	1.029	260.4	99.8,99.8
70	0.2006	0.1478	0.1637	0.1388	0.1755	0.1619	0.2114	0.1488	60- 70	0.2994	260.7	99.9,99.9
80	0.0719	0.0602	0.0593	0.0630	0.0616	0.0646	0.0806	0.0637	70- 80	0.1099	260.9	100,100
90	0	0	0	0	0	0	0	0	80- 90	0.0341	260.9	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:24 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:260.888x1 lm		
NAME: SLDL216T-4030P-TWD08	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	379	277
80	329	272
75	365	294
70	467	381
65	666	568
60	1083	931
55	1654	1608
50	3278	2978
45	7609	7283

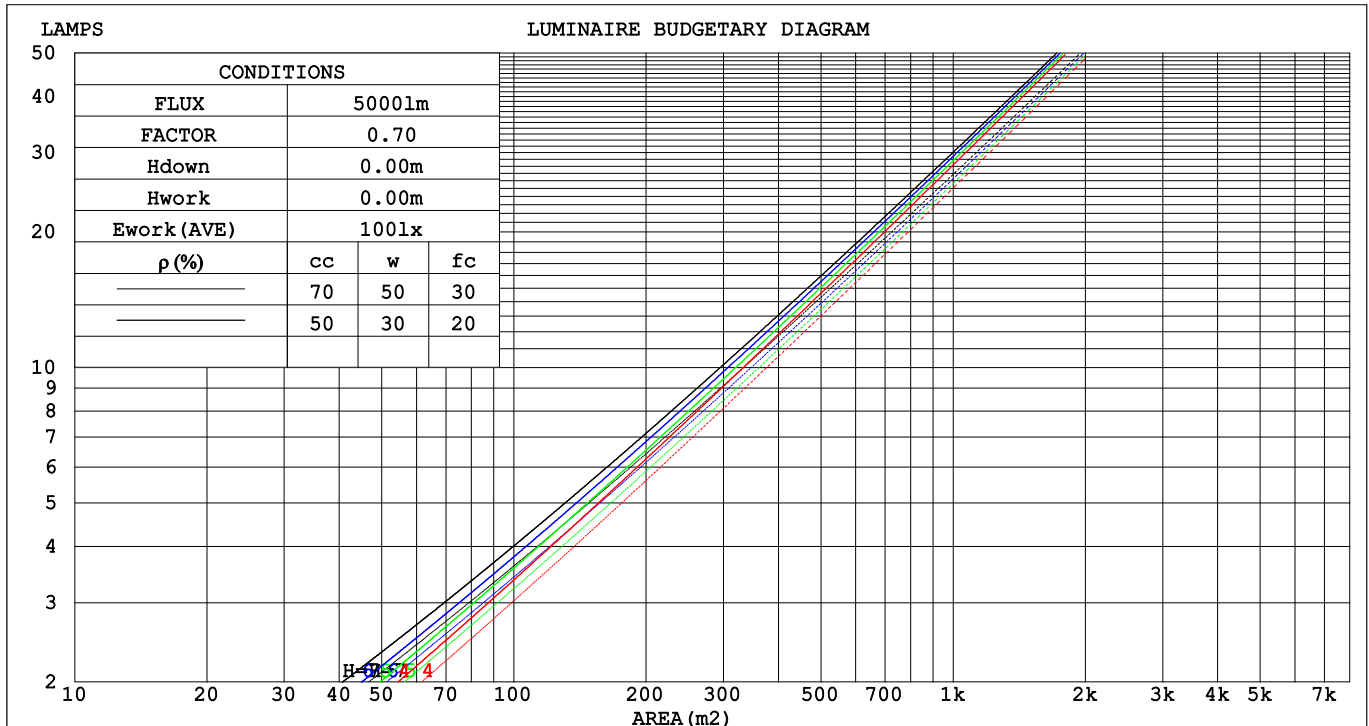
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Jason  
 Test Date: 24 July 2020

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:260.888x1 lm		
NAME: SLDL216T-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:24 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:260.888x1 lm		
NAME: SLDL216T-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	.163	.093	.029	.156	.089	.028	.144	.083	.026	.132	.076	.025	.122	.071	.023	
2.0	.155	.085	.026	.149	.082	.025	.139	.077	.024	.129	.072	.023	.120	.068	.021	
3.0	.147	.078	.023	.142	.076	.023	.133	.072	.022	.125	.069	.021	.118	.065	.020	
4.0	.140	.073	.021	.136	.071	.021	.128	.068	.020	.121	.065	.020	.114	.062	.019	
5.0	.133	.068	.020	.129	.066	.019	.123	.064	.019	.117	.062	.018	.111	.059	.018	
6.0	.127	.064	.018	.124	.063	.018	.118	.061	.018	.113	.059	.017	.108	.057	.017	
7.0	.121	.060	.017	.119	.059	.017	.114	.057	.017	.109	.056	.016	.104	.054	.016	
8.0	.116	.057	.016	.114	.056	.016	.110	.055	.016	.105	.053	.015	.101	.052	.015	
9.0	.112	.054	.015	.110	.053	.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	.126	.100	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.154	.133	.115	.132	.114	.099	.090	.079	.069	.052	.046	.040	.017	.015	.013	
3.0	.141	.113	.092	.121	.098	.080	.083	.068	.056	.048	.040	.033	.015	.013	.011	
4.0	.130	.099	.075	.111	.085	.065	.077	.059	.046	.044	.035	.027	.014	.011	.009	
5.0	.121	.087	.062	.104	.075	.054	.071	.052	.038	.041	.031	.022	.013	.010	.007	
6.0	.113	.077	.052	.097	.067	.045	.067	.047	.032	.039	.028	.019	.013	.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	.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:24 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:260.888x1 lm											
NAME: SLDL216T-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	20.8	21.6	21.0	21.8	21.9	20.6	21.4	20.8	21.6	21.7
	3H	20.6	21.4	20.9	21.6	21.8	20.4	21.2	20.7	21.4	21.6
	4H	20.5	21.3	20.8	21.5	21.7	20.3	21.1	20.6	21.3	21.5
	6H	20.4	21.1	20.7	21.4	21.6	20.2	20.9	20.5	21.2	21.4
	8H	20.4	21.1	20.7	21.3	21.6	20.2	20.9	20.5	21.1	21.4
	12H	20.4	21.0	20.7	21.3	21.5	20.1	20.8	20.5	21.0	21.3
4H	2H	20.5	21.3	20.8	21.5	21.7	20.3	21.1	20.6	21.3	21.5
	3H	20.4	21.0	20.7	21.3	21.5	20.1	20.8	20.5	21.1	21.3
	4H	20.3	20.8	20.6	21.1	21.4	20.1	20.6	20.4	20.9	21.2
	6H	20.2	20.7	20.5	21.0	21.4	20.0	20.5	20.3	20.8	21.1
	8H	20.1	20.6	20.5	20.9	21.3	19.9	20.4	20.3	20.7	21.1
	12H	20.1	20.5	20.5	20.9	21.3	19.9	20.3	20.3	20.7	21.0
8H	4H	20.1	20.6	20.5	20.9	21.3	19.9	20.4	20.3	20.7	21.1
	6H	20.0	20.4	20.4	20.8	21.2	19.8	20.2	20.2	20.6	21.0
	8H	20.0	20.3	20.4	20.7	21.2	19.7	20.1	20.2	20.5	20.9
	12H	19.9	20.2	20.4	20.6	21.1	19.7	20.0	20.2	20.4	20.9
12H	4H	20.1	20.5	20.5	20.9	21.3	19.9	20.3	20.3	20.7	21.0
	6H	20.0	20.3	20.4	20.7	21.2	19.7	20.1	20.2	20.5	20.9
	8H	19.9	20.2	20.4	20.6	21.1	19.7	20.0	20.2	20.4	20.9
Variations with the observer position at spacings:											
S = 1.0H	+ 4.8 / -13.6					+ 4.0 / -12.8					
1.5H	+ 7.3 / -12.2					+ 6.5 / -10.9					
2.0H	+ 6.8 / - 7.7					+ 6.7 / - 7.3					

CIE Pub.117, 260.9 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -4.7)

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:24 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:260.888x1 lm		
NAME: SLDL216T-4030P-TWD08	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

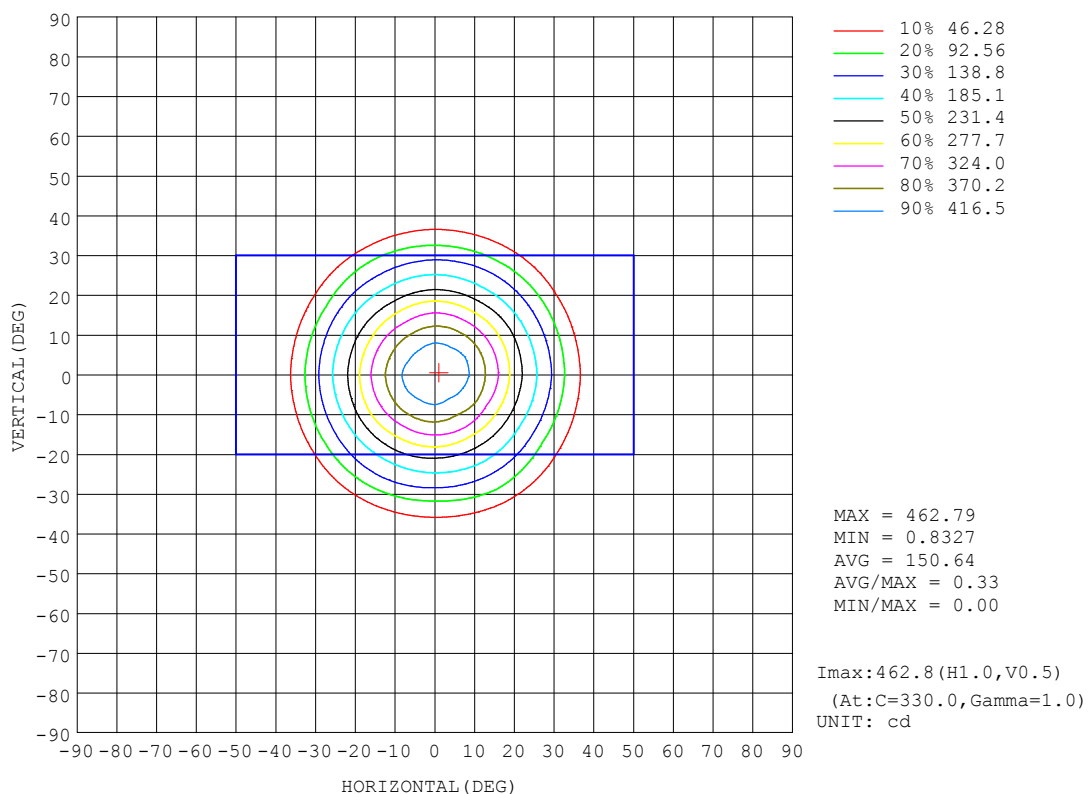
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	90	84	80	89	84	80	89	83	80	77
0.80	97	92	88	96	91	88	95	91	88	84
1.00	101	96	92	100	95	92	99	95	92	88
1.25	105	100	97	104	99	96	102	98	95	92
1.50	107	103	100	106	102	99	104	101	98	94
2.00	109	106	103	108	105	102	105	103	100	95
2.50	111	107	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	109	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:24 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:260.888x1 lm		
NAME: SLDL216T-4030P-TWD08	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

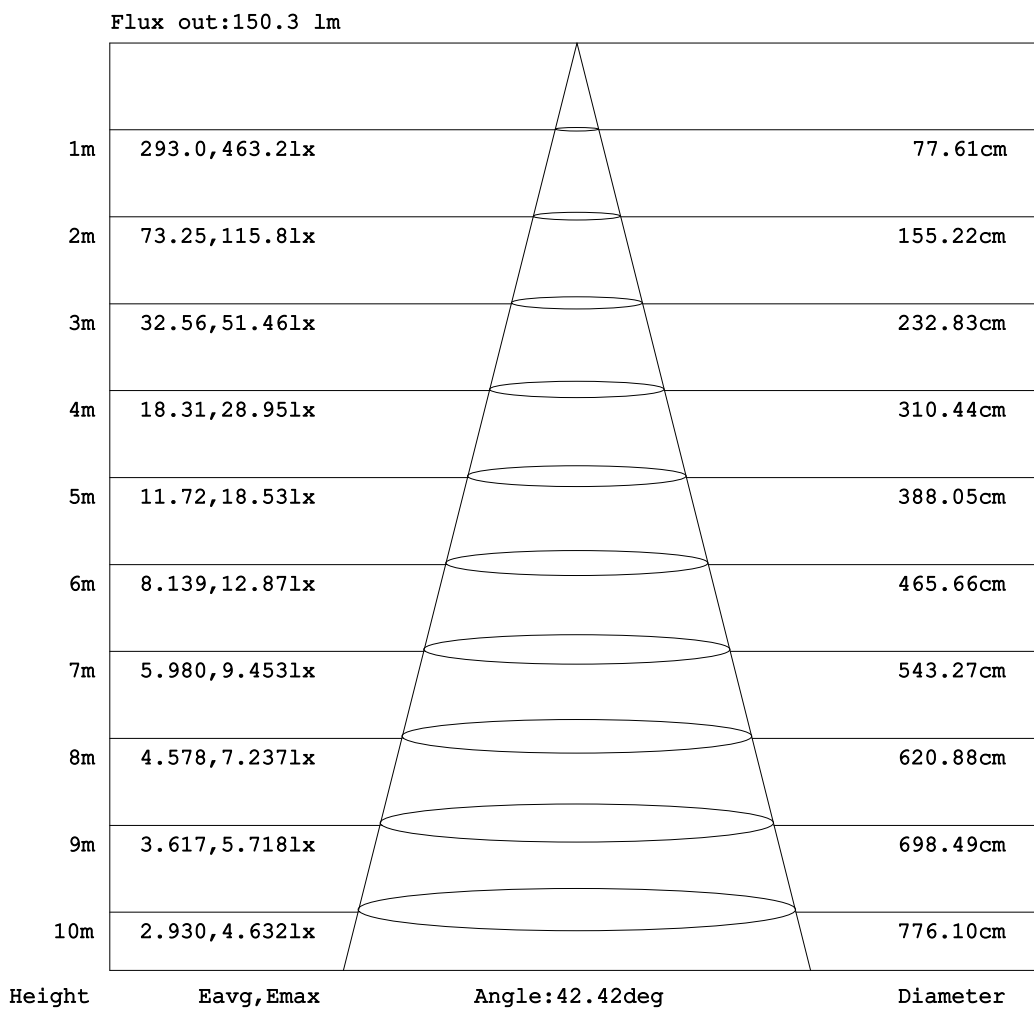


C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:24 July 2020

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:260.888x1 lm		
NAME: SLDL216T-4030P-TWD08	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



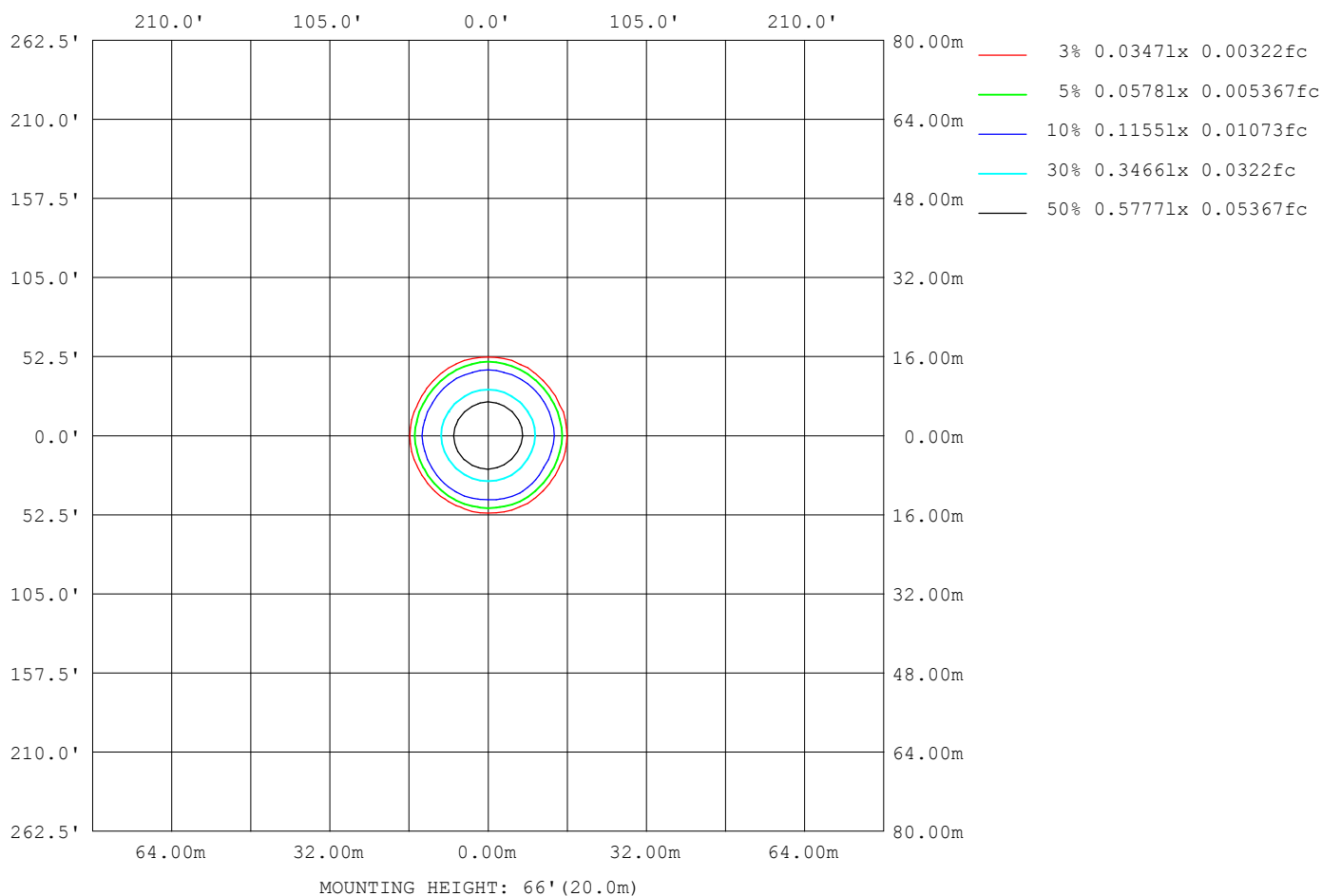
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:24 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:260.888x1 lm		
NAME: SLDL216T-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:24 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:260.888x1 lm		
NAME: SLDL216T-4030P-TWD08	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

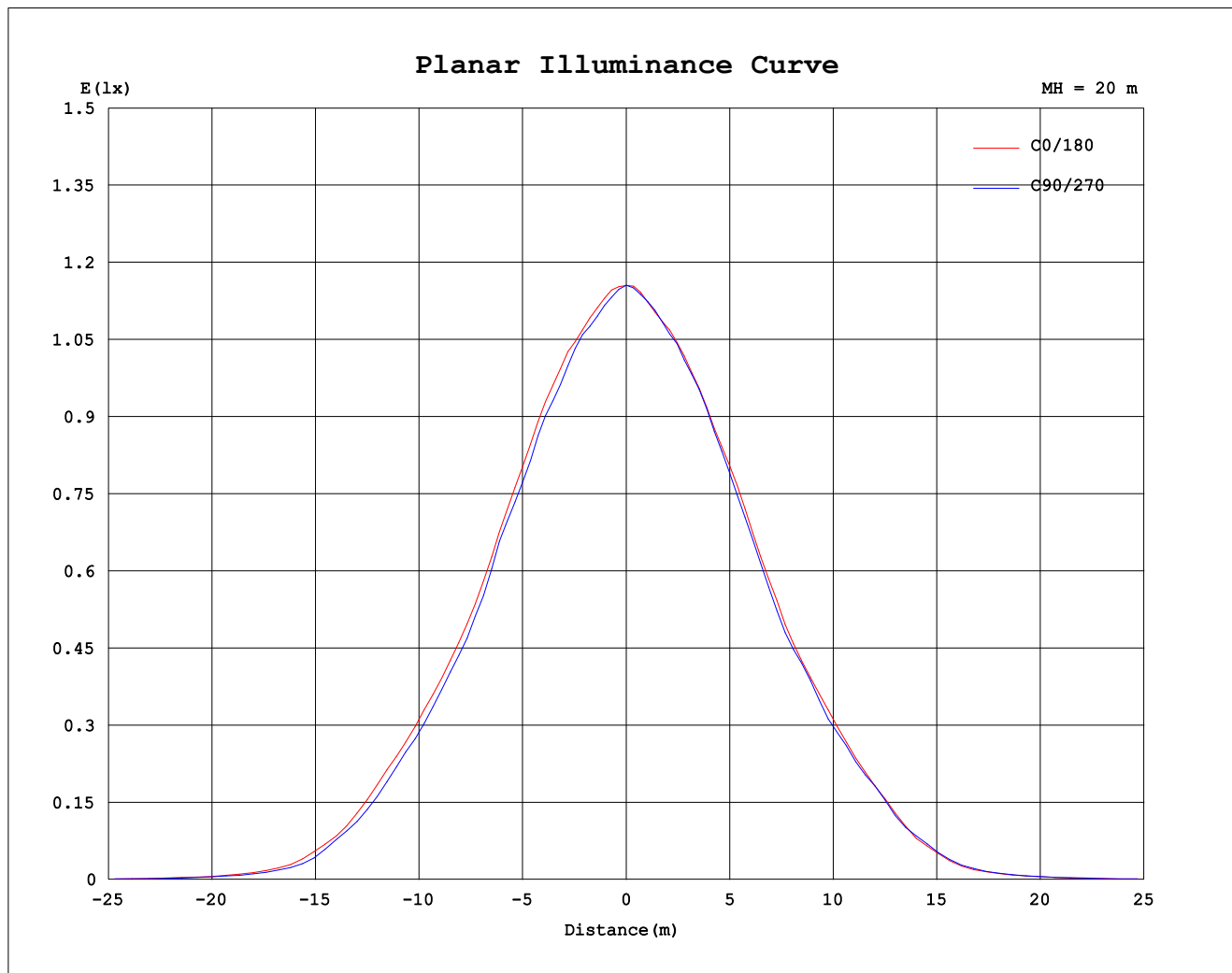
AvgL	cd/m2
L_0~180 (65) av	627
L_0~180 (75) av	341
L_0~180 (85) av	338
L_90~270 (65) av	628
L_90~270 (75) av	344
L_90~270 (85) av	361
L_45 (65) av	465
L_45 (75) av	282
L_45 (85) av	325

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:24 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: 24 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:

```