02060 - 69 Highgate High Street Daylight Calculations 24/05/2016

	2nd Floor		1st Floor		
	Living	Kit/Dinn	Bed 1	Bed 2	Bed 3
	RM.2F.2	RM.2F.1	RM.1F.6	RM.1F.5	RM.1F.4
1. Uniformty Test					
Room Depth, d	3.3	4	3.1	3.4	3
Room width, w	6.1	10	3.5	2.7	3.3
Top of Window, h	2.3	2.3	2.35	2.8	2.8
Av Reflectance, Rb	0.5	0.5	0.5	0.5	0.5
d/w + d/h	1.97576622	2.139130435	2.204863222	2.47354497	1.980519481
2/(1-Rb)	4	4	4	4	4
Test is (d/w+d/h) <= 2/(1-Rb) ?	**PASS**	**PASS**	**PASS**	**PASS**	**PASS**
2. Daylight Factor					
Height of mid-pane	1.2	1.2	1.55	1.7	1.7
Shade tip height, Sh	2.3	2.3	2.3	2.8	2.8
Shade tip projection, Sd	0.1	0.1	0.1	0.1	0.1
Upper Angle	84.8	84.8	82.4	84.8	84.8
Height of opp wall, Wh	2	0	4.8	0.8	0.8
Dist to opp wall, Wd	12	8	12	5	5
Lower Angle	3.8	0.0	15.2	0.0	0.0
VSA	81.0	84.8	67.3	84.8	84.8
Height of Room, Hr	2.5	2.5	2.4	2.4	2.4
Area of room surfaces, As	87.26	150	53.38	47.64	50.04
Area of window less frame, Aw	5.62	13.12	3.31	0.7	0.7
Visible Light Transmittance, V	0.7	0.7	0.7	0.7	0.7
D.F = (Aw/As)xVxVSA/(1-Rb^2)	**4.9%**	**6.9%**	**3.9%**	**1.2%**	**1.1%**
Required DF	1.5%	2.0%	1.0%	1.0%	1.0%
Test is calculated D.F => required D.F. ?	**PASS**	**PASS**	**PASS**	**PASS**	**PASS**
3. Direct View of the sky					
Proj angle, PA = atan((Wh-Sh)/(Wd-Sd))	0.0	0.0	11.9	0.0	0.0
Working Plane height, WPH	0.85	0.85	0.85	0.85	0.85
Distance to no sky line, DNSL = (h-WPH)/Tan (PA)	100.0	100.0	7.1	100.0	100.0
%ge of room = (DNSL/d)x100	100%	100%	100%	100%	100%
Test is %ge > 80%	**PASS**	**PASS**	**PASS**	**PASS**	**PASS**