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Lampiran 1. Site Plan Gedung Teknik Sipil Polinema

UNIVERSITAS BRAWIJAYA
FAKULTAS TEKNIK

MATA KULIAH

SKRIPSI ARSITEKTUR

JUDUL TUGAS

EVALUASI BUKAAN BANGUNAN UNTUK MENDAPATKAN KENYAMANAN VISUAL PADA RUANG PERKULIAHAN

NAMA

DWI RISKY FEBRIAN DHINI

NIM

12506050011010

DOSEN PEMBIMBING

Ir. JUSUF THOJIB, M.Sc

M. SATYA ADHITAMA,ST,MSA

JUDUL GAMBAR

SITE PLAN

SKALA	NO GAMBAR
1:750	01

UNIVERSITAS BRAWIJAYA

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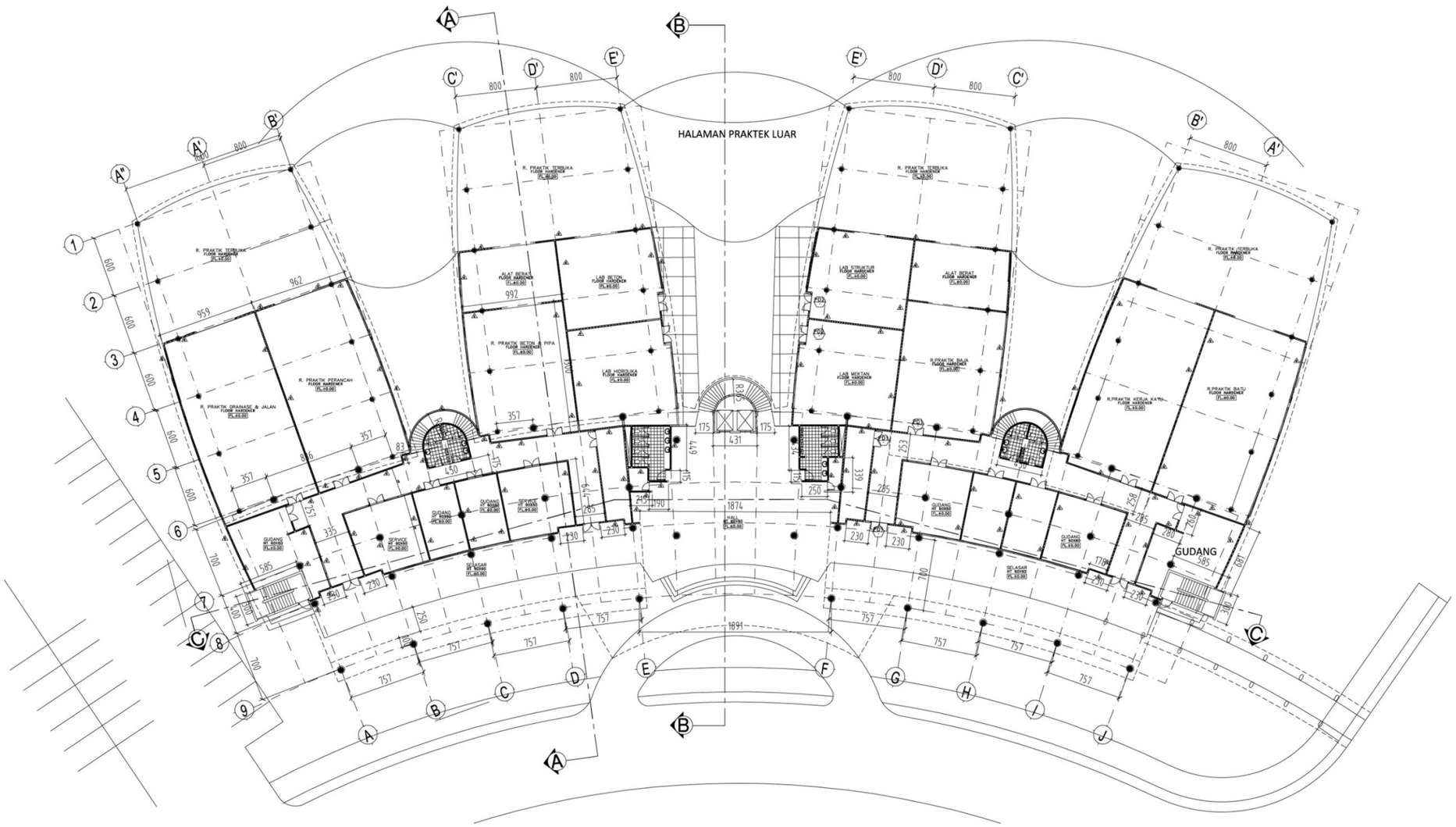
Lampiran 2. Denah Lantai 1 Gedung Teknik Sipil Polinema



MATA KULIAH

SKRIPSI ARSITEKTUR

JUDUL TUGAS

EVALUASI BUKAAN BANGUNAN UNTUK MENDAPATKAN KENYAMANAN VISUAL PADA RUANG PERKULIAHAN

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M. SATYA ADHITAMA,ST,MSA

JUDUL GAMBAR

DENAH LT 1

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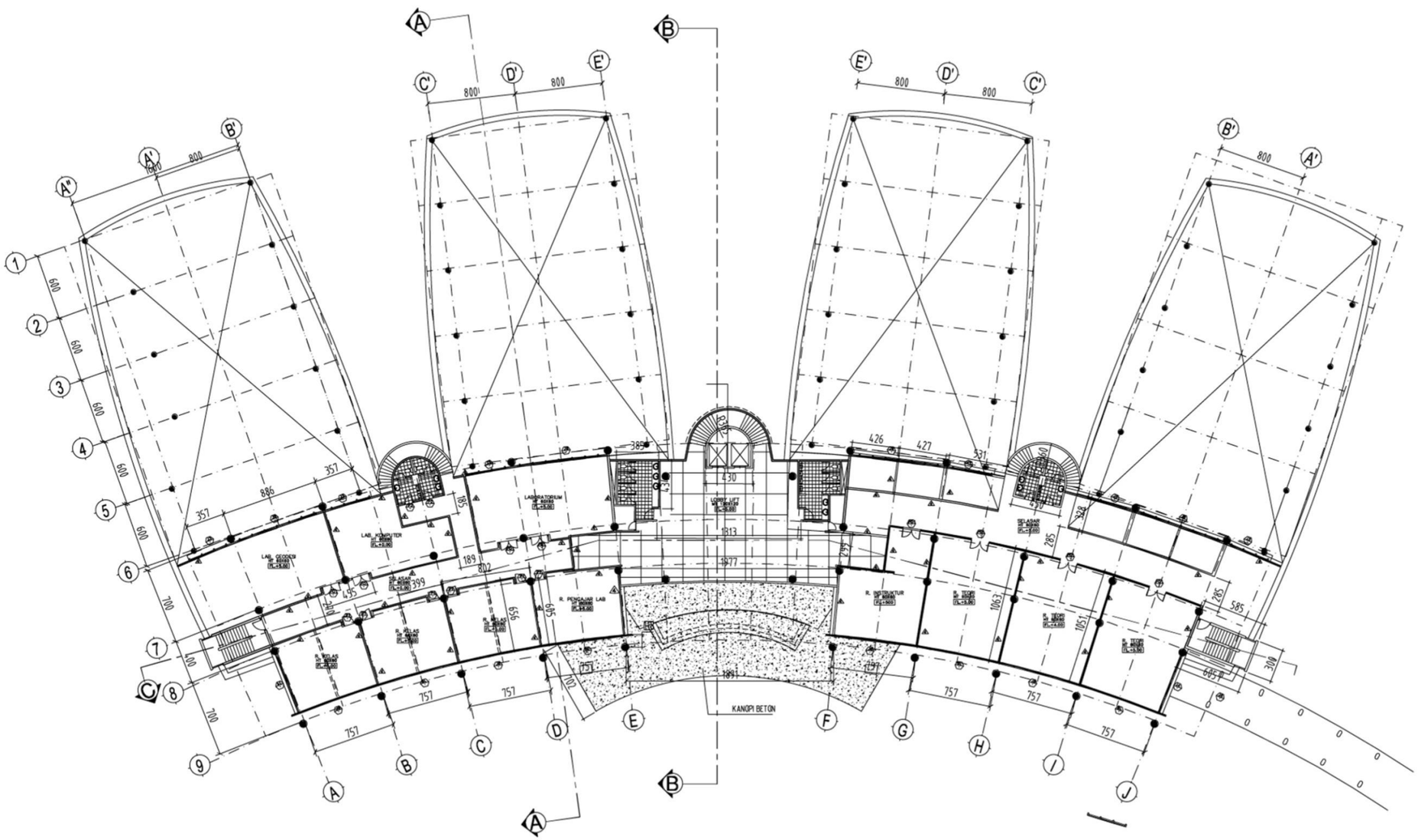
UNIVERSITAS BRAWIJAYA

Lampiran 3. Denah Lantai 2 Gedung Teknik Sipil Polinema



MATA KULIAH

SKRIPSI ARSITEKTUR

JUDUL TUGAS

EVALUASI BUKAAN BANGUNAN UNTUK MENDAPATKAN KENYAMANAN VISUAL PADA RUANG PERKULIAHAN

NAMA

DWI RISKY FEBRIAN DHINI

NIM

12506050011010

DOSEN PEMBIMBING

Ir. JUSUF THOJIB, M.Sc

M. SATYA ADHITAMA,ST,MSA

JUDUL GAMBAR

DENAH LT 2

SKALA	NO GAMBAR
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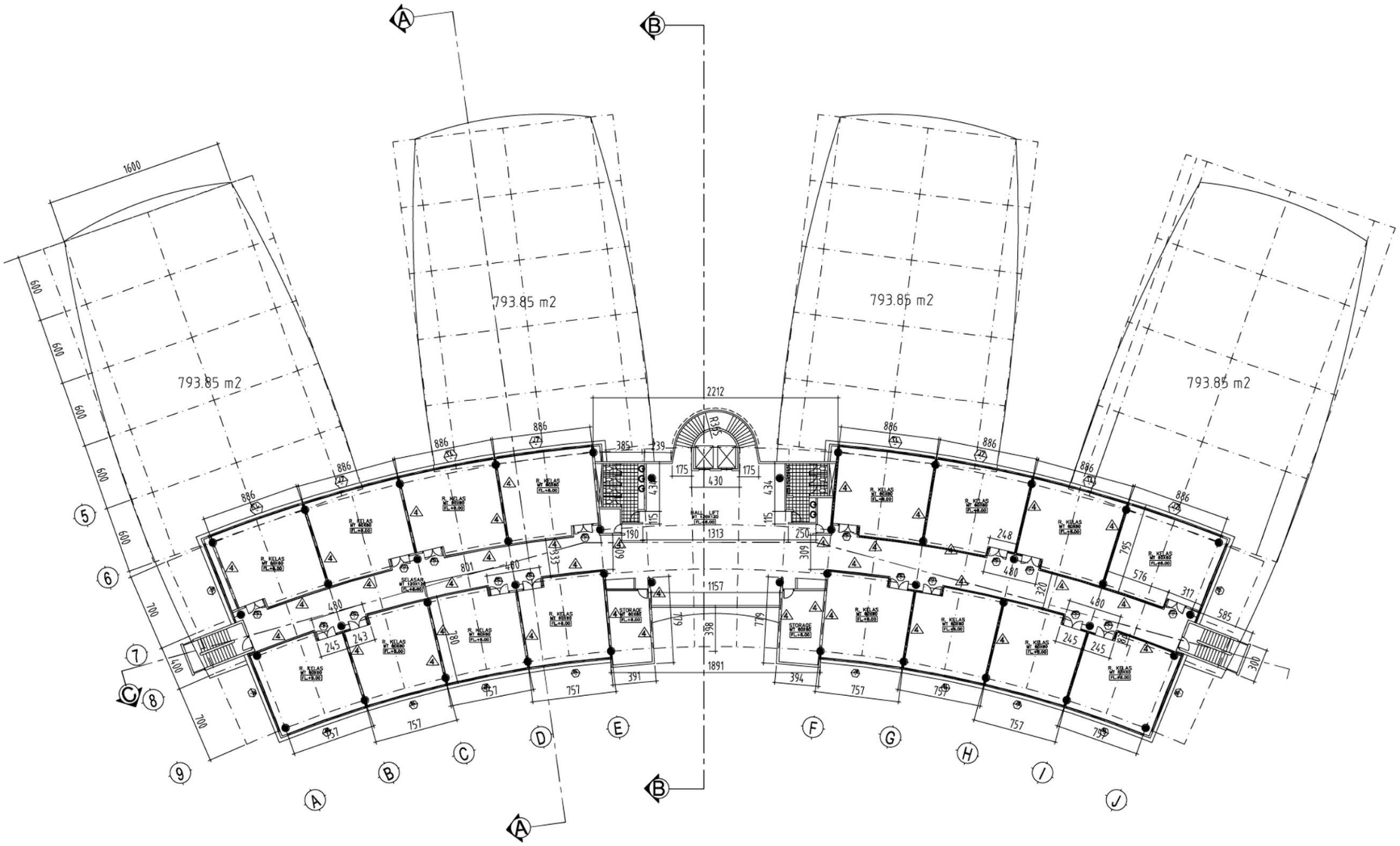
Lampiran 4. Denah Lantai Tipikal Gedung Teknik Sipil Polinema



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JUDUL TUGAS

EVALUASI BUKAAN BANGUNAN UNTUK MENDAPATKAN KENYAMANAN VISUAL PADA RUANG PERKULIAHAN

NAMA

DWI RISKY FEBRIAN DHINI

NIM

12506050011010

DOSEN PEMBIMBING

Ir. JUSUF THOJIB, M.Sc

M. SATYA ADHITAMA,ST,MSA

JUDUL GAMBAR

DENAH LT 3

SKALA	NO GAMBAR
1:500	04

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Lampiran 5. Tampak Depan Gedung Teknik Sipil Polinema

MATA KULIAH

SKRIPSI ARSITEKTUR

JUDUL TUGAS

EVALUASI BUKAAN BANGUNAN UNTUK MENDAPATKAN KENYAMANAN VISUAL PADA RUANG PERKULIAHAN

NAMA

DWI RISKY FEBRIAN DHINI

NIM

12506050011010

DOSEN PEMBIMBING

Ir. JUSUF THOJIB, M.Sc

M. SATYA ADHITAMA,ST,MSA

JUDUL GAMBAR

TAMPAK DEPAN

SKALA	NO GAMBAR
1:500	07

Lampiran 6. Tampak Belakang Gedung Teknik Sipil Polinema

MATA KULIAH

SKRIPSI ARSITEKTUR

JUDUL TUGAS

EVALUASI BUKAAN BANGUNAN UNTUK MENDAPATKAN KENYAMANAN VISUAL PADA RUANG PERKULIAHAN

NAMA

DWI RISKY FEBRIAN DHINI

NIM

12506050011010

DOSEN PEMBIMBING

Ir. JUSUF THOJIB, M.Sc

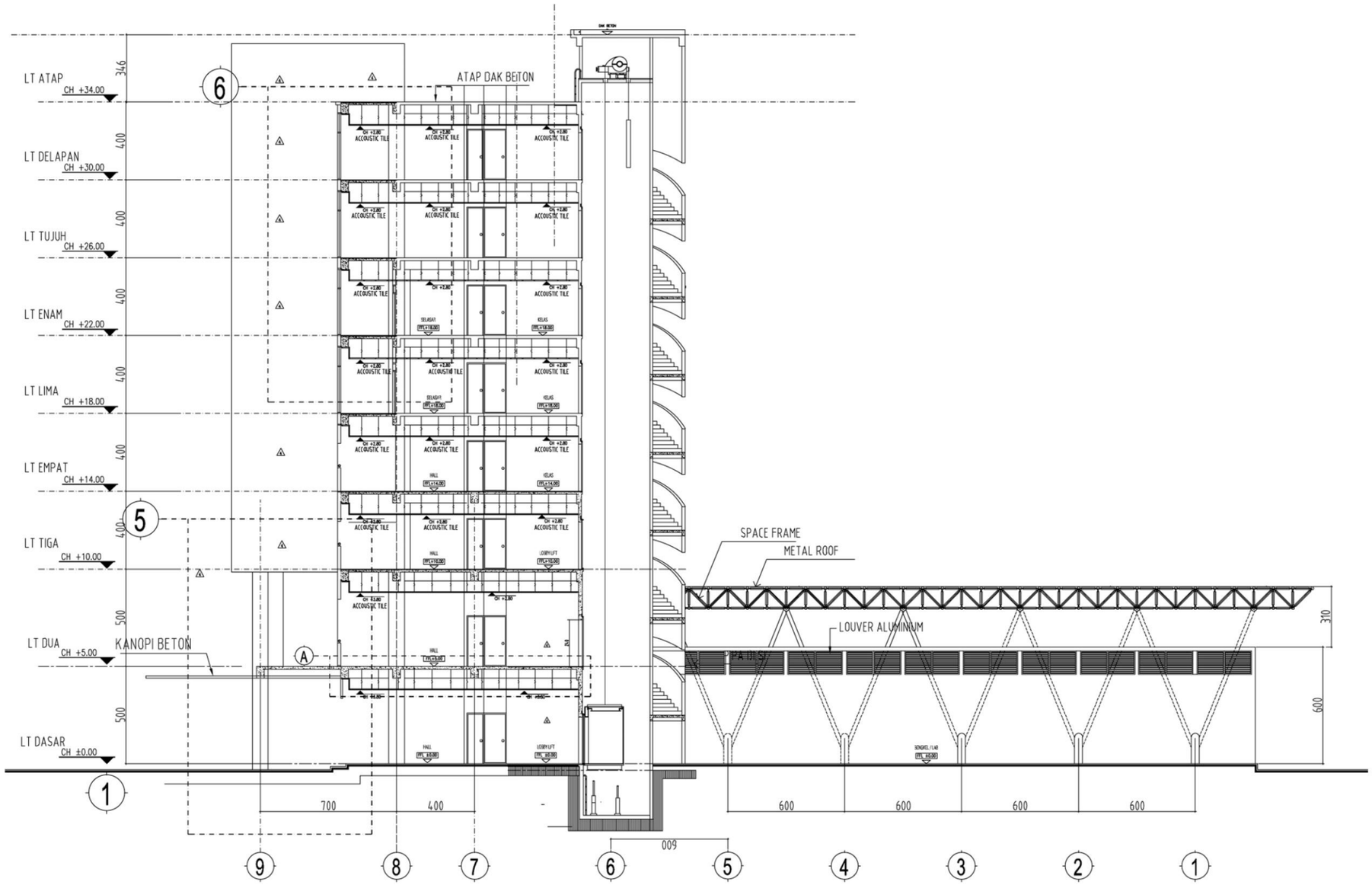
M. SATYA ADHITAMA,ST,MSA

JUDUL GAMBAR

TAMPAK BELAKANG

SKALA	NO GAMBAR
1:500	08

Lampiran 7. Potongan A-A Gedung Teknik Sipil Polinema



MATA KULIAH

SKRIPSI ARSITEKTUR

JUDUL TUGAS

EVALUASI BUKAAN BANGUNAN UNTUK MENDAPATKAN KENYAMANAN VISUAL PADA RUANG PERKULIAHAN

NAMA

DWI RISKY FEBRIAN DHINI

NIM

12506050011010

DOSEN PEMBIMBING

Ir. JUSUF THOJIB, M.Sc

M. SATYA ADHITAMA,ST,MSA

JUDUL GAMBAR

POTONGAN A-A'

SKALA	NO GAMBAR
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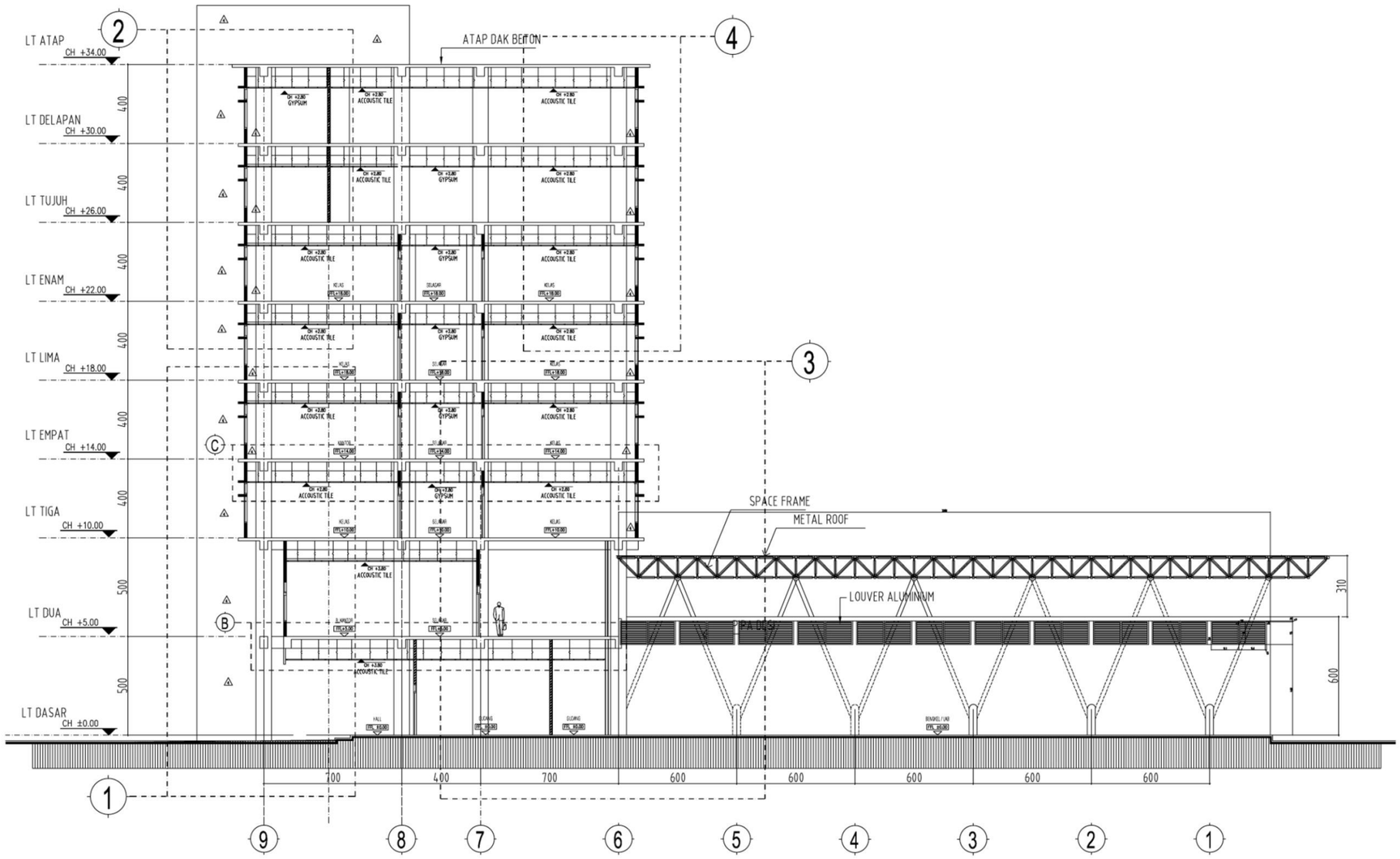
Lampiran 8. Potongan B-B Gedung Teknik Sipil Polinema



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MATA KULIAH

SKRIPSI ARSITEKTUR

JUDUL TUGAS

EVALUASI BUKAAN BANGUNAN UNTUK MENDAPATKAN KENYAMANAN VISUAL PADA RUANG PERKULIAHAN

NAMA

DWI RISKY FEBRIAN DHINI

NIM

12506050011010

DOSEN PEMBIMBING

Ir. JUSUF THOJIB, M.Sc

M. SATYA ADHITAMA,ST,MSA

JUDUL GAMBAR

POTONGAN B-B'

SKALA	NO GAMBAR
1:500	05

UNIVERSITAS BRAWIJAYA

Lampiran 9. Hasil Simulasi Dialux Rekomendasi Eksterior Ruang Teori

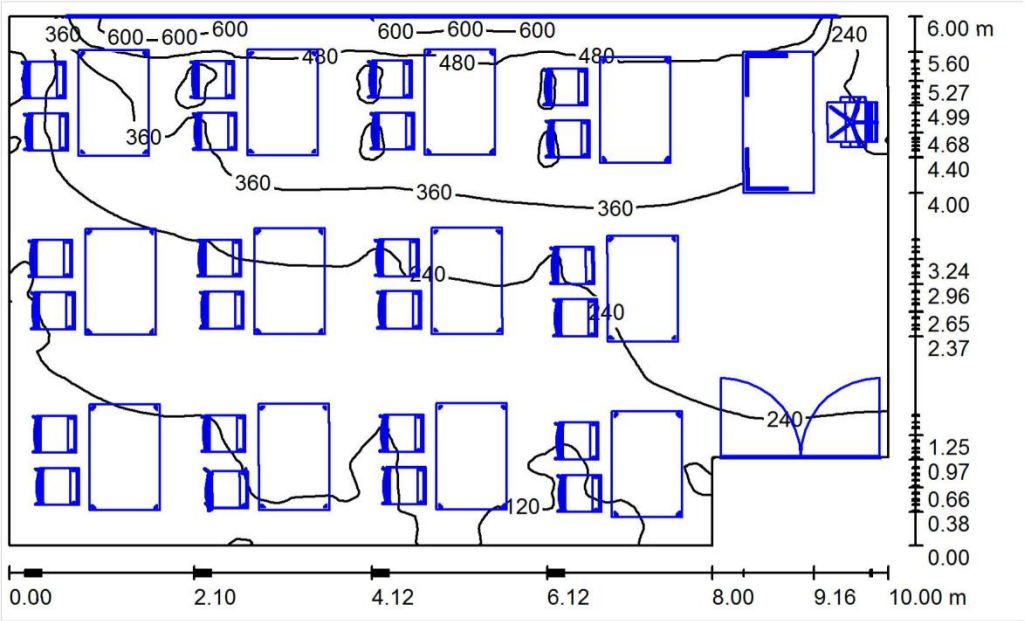
Project 1

DIALux

01.07.2016

Operator
Telephone
Fax
e-Mail

Room 1 / Light scene 4 / Summary



Height of Room: 4.000 m, Maintenance factor: 0.80 Values in Lux, Scale 1:78

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0
Workplane	/	265	66	663	0.251
Floor	63	149	67	283	0.452
Ceiling	70	124	55	267	0.446
Walls (6)	50	0.00	0.00	0.00	/

Workplane:

Height: 0.750 m
Grid: 128 x 128 Points
Boundary Zone: 0.000 m

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.489, Ceiling / Working Plane: 0.471.

Pure daylight scene, no luminaires involved.

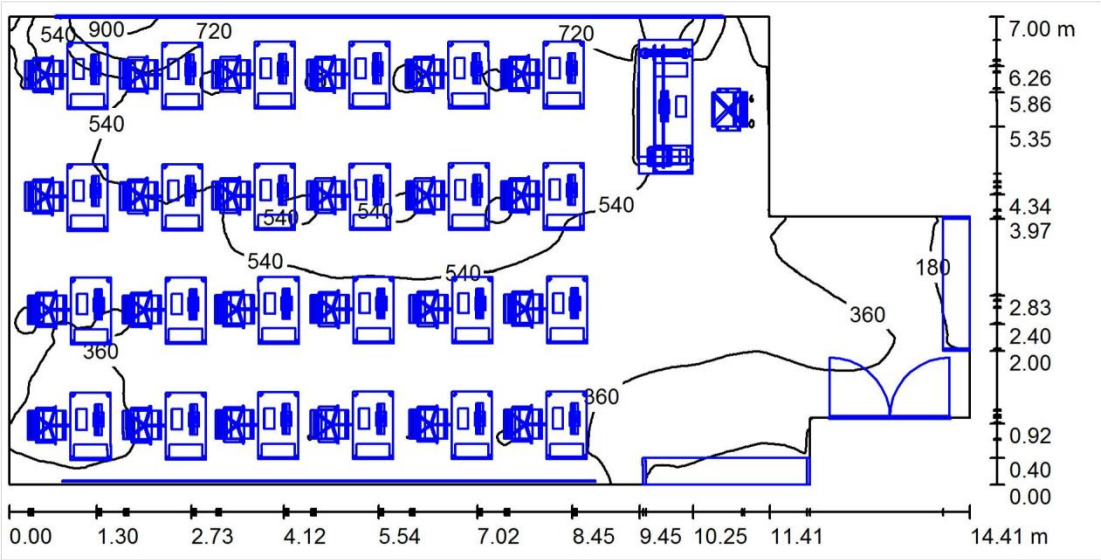
Lampiran 10. Hasil Simulasi Dialux Rekomendasi Eksterior Ruang Komputer

Project 1 DIALux

01.07.2016

Operator
Telephone
Fax
e-Mail

Room 1 / Light scene 2 / Summary



Height of Room: 5.000 m, Maintenance factor: 0.80 Values in Lux, Scale 1:103

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0
Workplane	/	471	101	997	0.214
Floor	68	263	119	464	0.452
Ceiling	70	396	179	826	0.451
Walls (8)	82	0.00	0.00	0.00	/

Workplane:
Height: 0.750 m
Grid: 128 x 128 Points
Boundary Zone: 0.000 m

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.736, Ceiling / Working Plane: 0.842.

Pure daylight scene, no luminaires involved.

Lampiran 11. Hasil Simulasi Dialux Rekomendasi Eksterior Ruang Gambar

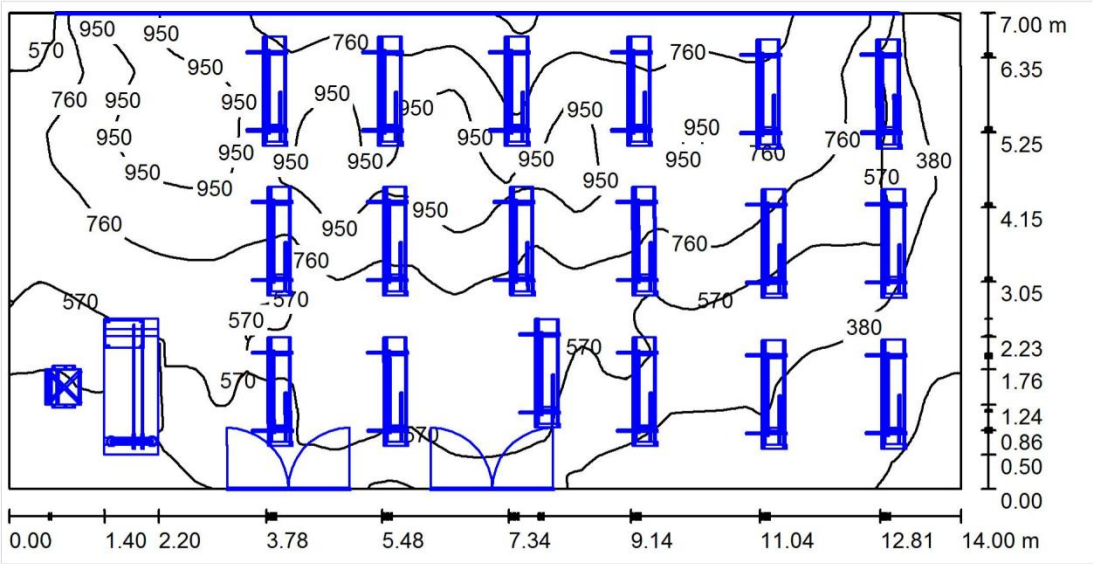
Project 1

DIALux

01.07.2016

Operator
Telephone
Fax
e-Mail

Room 1 / Light scene 1 / Summary



Height of Room: 5.000 m, Maintenance factor: 0.80 Values in Lux, Scale 1:101

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0
Workplane	/	656	124	1071	0.189
Floor	68	527	151	880	0.287
Ceiling	70	583	151	1342	0.260
Walls (4)	39	0.00	0.00	0.00	/

Workplane:

Height: 0.750 m
Grid: 128 x 128 Points
Boundary Zone: 0.000 m

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.765, Ceiling / Working Plane: 0.888.

Pure daylight scene, no luminaires involved.

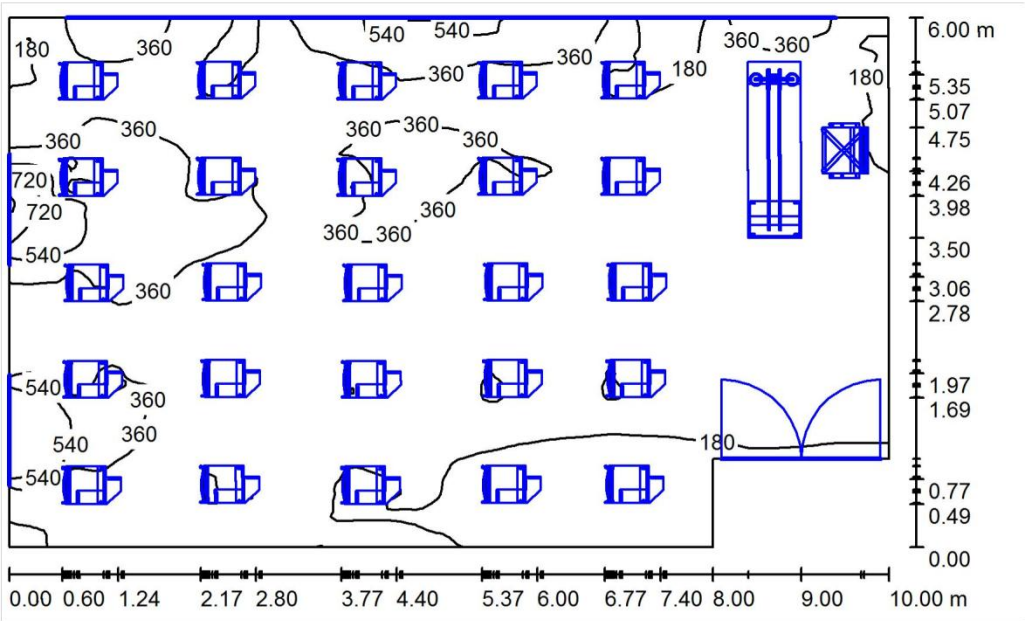
Lampiran 12. Hasil Simulasi Dialux Rekomendasi Eksterior Ruang Hitungan

Project 1 DIALux

01.07.2016

Operator
Telephone
Fax
e-Mail

Room 1 / Light scene 1 / Summary



Height of Room: 4.000 m, Maintenance factor: 0.80 Values in Lux, Scale 1:78

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0
Workplane	/	291	91	958	0.314
Floor	20	200	91	333	0.455
Ceiling	70	138	67	270	0.486
Walls (6)	56	0.00	0.00	0.00	/

Workplane:
Height: 0.750 m
Grid: 128 x 128 Points
Boundary Zone: 0.000 m
Illuminance Quotient (according to LG7): Walls / Working Plane: 0.570, Ceiling / Working Plane: 0.474.

Pure daylight scene, no luminaires involved.

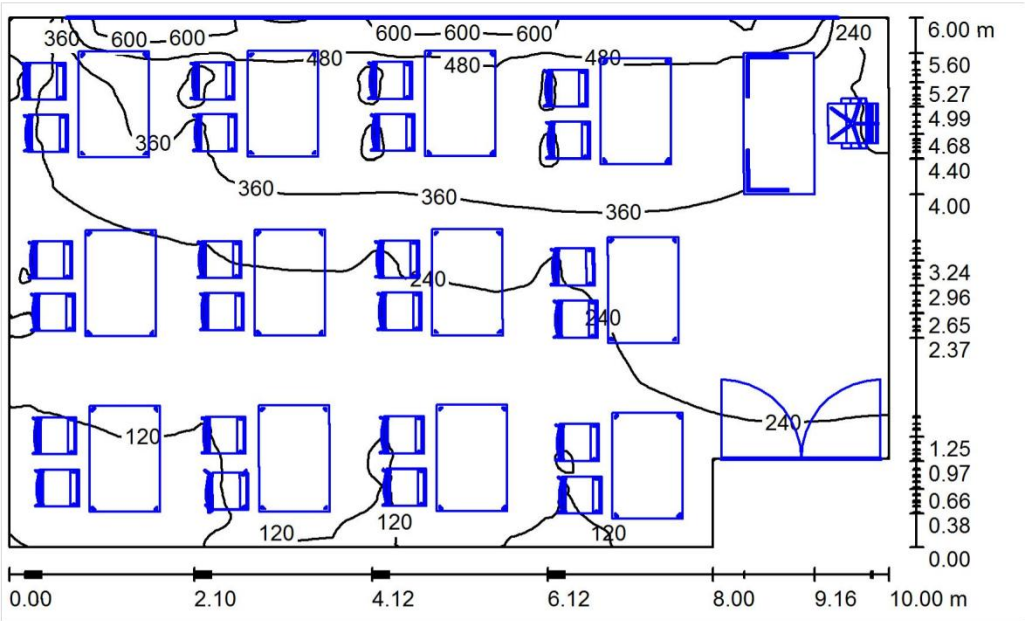
Lampiran 13. Hasil Simulasi Dialux Rekomendasi Interior Ruang Teori

Project 1 DIALux

30.07.2016

Operator
Telephone
Fax
e-Mail

Room 1 / Light scene 4 / Summary



Height of Room: 4.000 m, Maintenance factor: 0.80 Values in Lux, Scale 1:78

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0
Workplane	/	272	80	667	0.294
Floor	26	152	70	278	0.459
Ceiling	73	120	56	262	0.467
Walls (6)	66	0.00	0.00	0.00	/

Workplane:
Height: 0.750 m
Grid: 128 x 128 Points
Boundary Zone: 0.000 m
Illuminance Quotient (according to LG7): Walls / Working Plane: 0.466, Ceiling / Working Plane: 0.441.

Pure daylight scene, no luminaires involved.

Lampiran 14. Hasil Simulasi Dialux Rekomendasi Interior Ruang Komputer

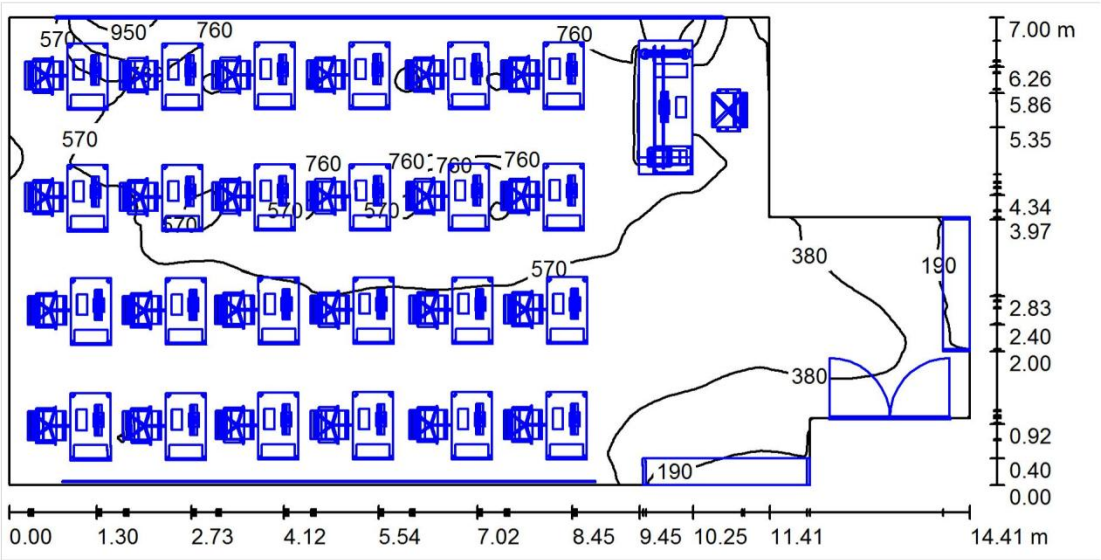
Project 1

DIALux

30.07.2016

Operator
Telephone
Fax
e-Mail

Room 1 / Light scene 2 / Summary



Height of Room: 5.000 m, Maintenance factor: 0.80 Values in Lux, Scale 1:103

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0
Workplane	/	523	122	1046	0.232
Floor	63	298	142	514	0.478
Ceiling	80	432	214	851	0.496
Walls (8)	90	0.00	0.00	0.00	/

Workplane:

Height: 0.750 m
Grid: 128 x 128 Points
Boundary Zone: 0.000 m

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.746, Ceiling / Working Plane: 0.827.

Pure daylight scene, no luminaires involved.

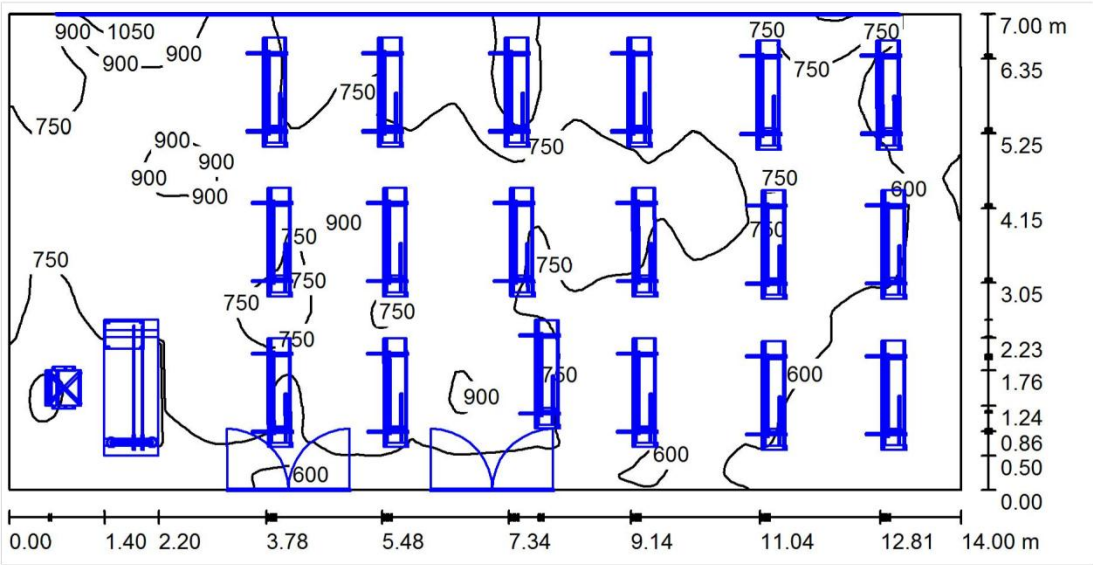
Lampiran 15. Hasil Simulasi Dialux Rekomendasi Interior Ruang Gambar

Project 1 DIALux

30.07.2016

Operator
Telephone
Fax
e-Mail

Room 1 / Light scene 1 / Summary



Height of Room: 5.000 m, Maintenance factor: 0.80 Values in Lux, Scale 1:101

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0
Workplane	/	728	450	1175	0.619
Floor	79	630	385	840	0.612
Ceiling	90	736	457	1995	0.621
Walls (4)	83	0.00	0.00	0.00	/

Workplane:
Height: 0.750 m
Grid: 128 x 128 Points
Boundary Zone: 0.000 m
Illuminance Quotient (according to LG7): Walls / Working Plane: 0.999, Ceiling / Working Plane: 1.011.

Pure daylight scene, no luminaires involved.

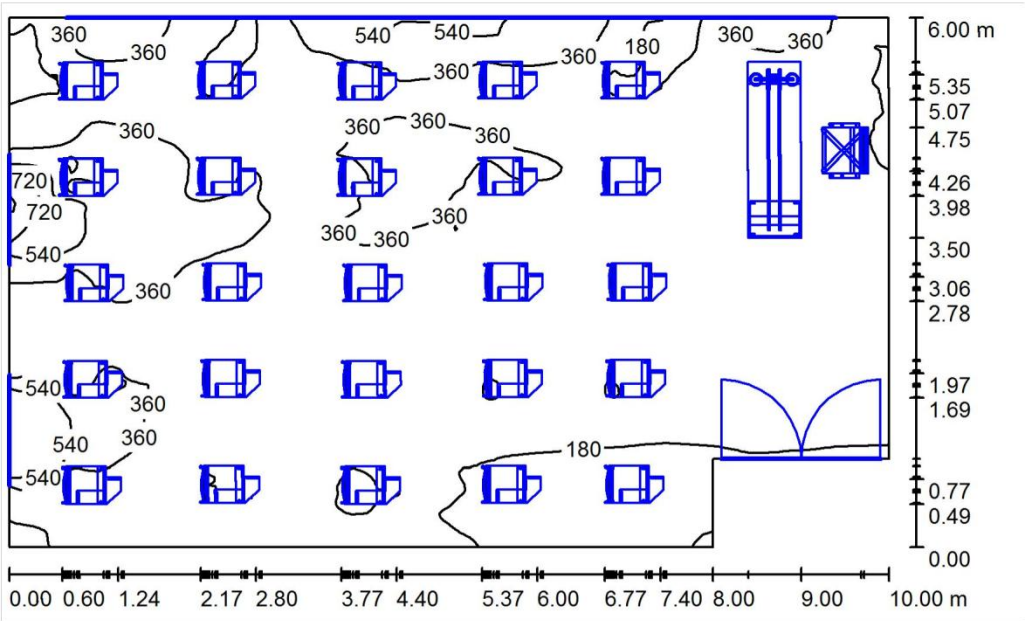
Lampiran 16. Hasil Simulasi Dialux Rekomendasi Interior Ruang Hitungan

Project 1 DIALux

30.07.2016

Operator
Telephone
Fax
e-Mail

Room 1 / Light scene 1 / Summary



Height of Room: 4.000 m, Maintenance factor: 0.80 Values in Lux, Scale 1:78

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0
Workplane	/	295	99	959	0.337
Floor	26	204	97	333	0.478
Ceiling	73	142	75	259	0.527
Walls (6)	52	0.00	0.00	0.00	/

Workplane:
Height: 0.750 m
Grid: 128 x 128 Points
Boundary Zone: 0.000 m
Illuminance Quotient (according to LG7): Walls / Working Plane: 0.579, Ceiling / Working Plane: 0.483.

Pure daylight scene, no luminaires involved.

Lampiran 17. Hasil Simulasi Dialux Rekomendasi *Lightshelves* Ruang Teori

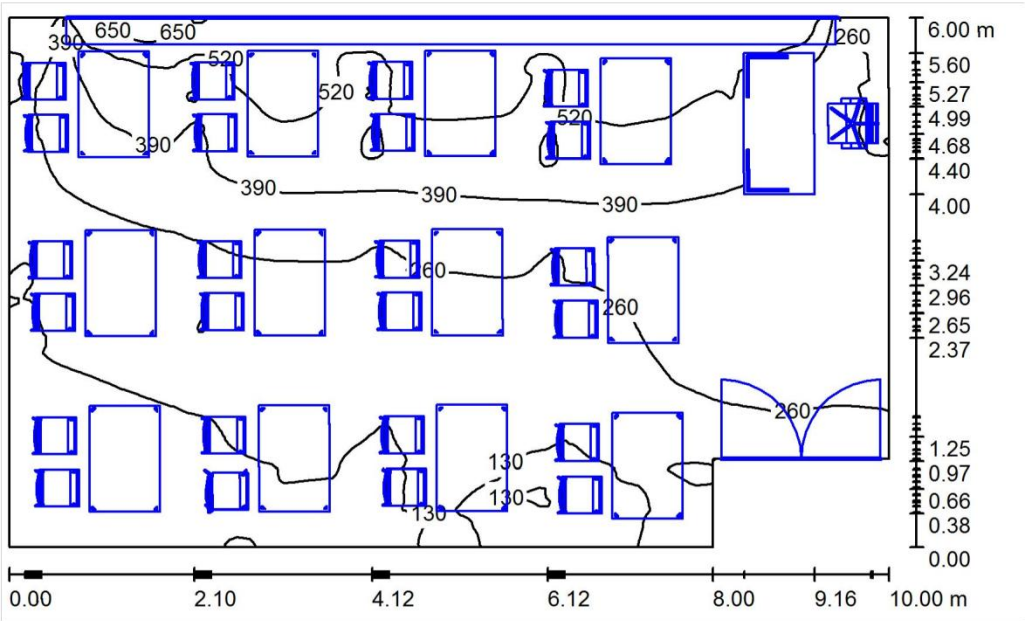
Project 1

DIALux

29.07.2016

Operator
Telephone
Fax
e-Mail

Room 1 / Light scene 4 / Summary



Height of Room: 4.000 m, Maintenance factor: 0.80 Values in Lux, Scale 1:78

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0
Workplane	/	289	77	706	0.265
Floor	26	160	67	324	0.419
Ceiling	73	96	52	212	0.538
Walls (6)	66	0.00	0.00	0.00	/

Workplane:

Height: 0.750 m
Grid: 128 x 128 Points
Boundary Zone: 0.000 m

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.414, Ceiling / Working Plane: 0.333.

Pure daylight scene, no luminaires involved.

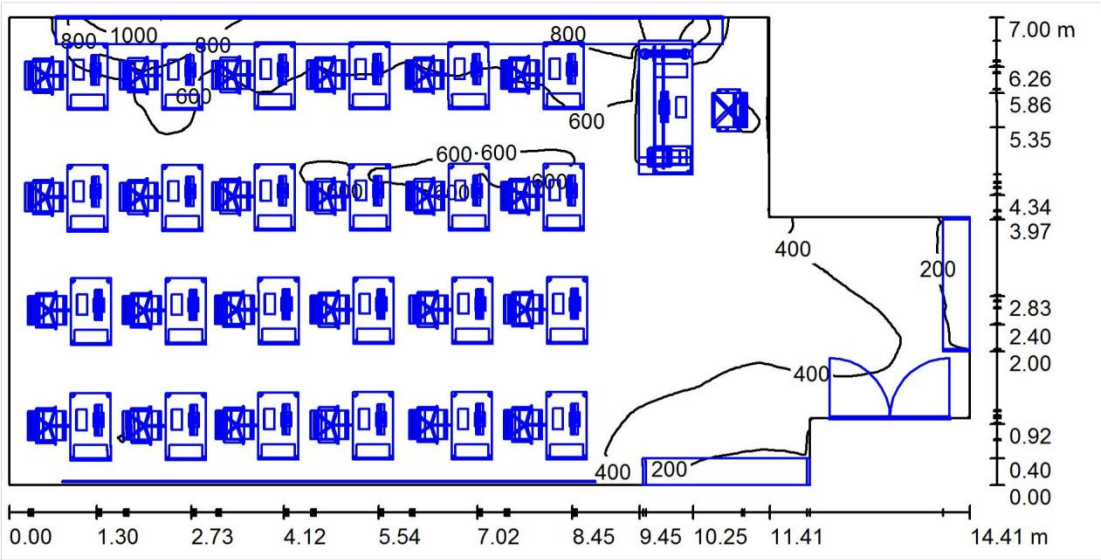
Lampiran 18. Hasil Simulasi Dialux Rekomendasi *Lightshelves* Ruang Komputer

Project 1 DIALux

29.07.2016

Operator
Telephone
Fax
e-Mail

Room 1 / Light scene 2 / Summary



Height of Room: 5.000 m, Maintenance factor: 0.80 Values in Lux, Scale 1:103

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0
Workplane	/	507	133	1099	0.262
Floor	63	292	147	436	0.505
Ceiling	80	549	226	1449	0.412
Walls (8)	90	0.00	0.00	0.00	/

Workplane:

Height: 0.750 m
Grid: 128 x 128 Points
Boundary Zone: 0.000 m

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.831, Ceiling / Working Plane: 1.085.

Pure daylight scene, no luminaires involved.

Lampiran 19. Hasil Simulasi Dialux Rekomendasi *Lightshelves* Ruang Gambar

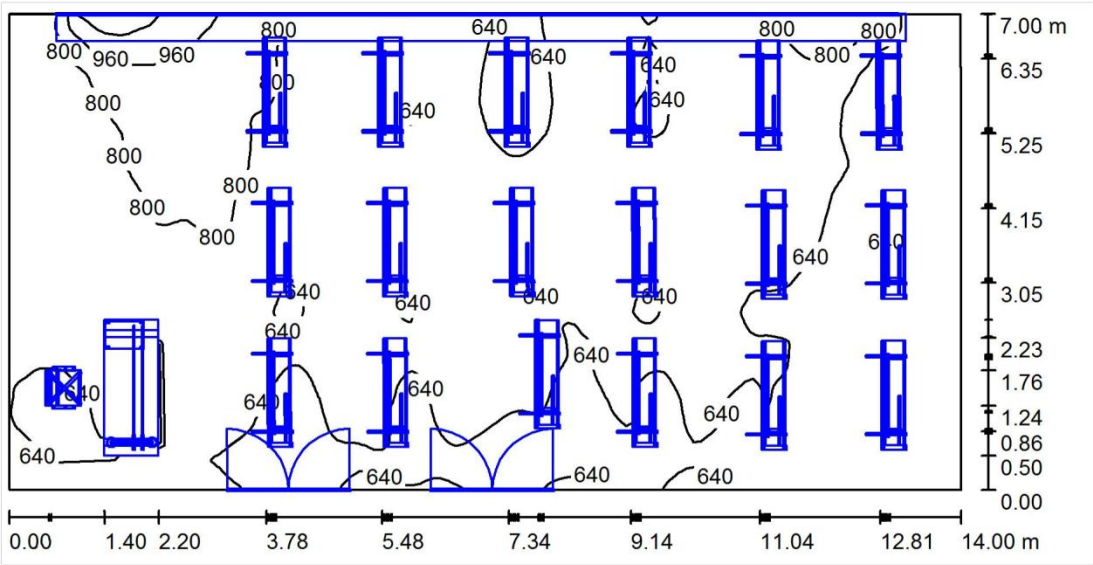
Project 1

DIALux

30.07.2016

Operator
Telephone
Fax
e-Mail

Room 1 / Light scene 1 / Summary



Height of Room: 5.000 m, Maintenance factor: 0.80 Values in Lux, Scale 1:101

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0
Workplane	/	684	472	1261	0.690
Floor	79	600	382	822	0.638
Ceiling	90	841	479	2608	0.570
Walls (4)	83	0.00	0.00	0.00	/

Workplane:

Height: 0.750 m
Grid: 128 x 128 Points
Boundary Zone: 0.000 m

Illuminance Quotient (according to LG7): Walls / Working Plane: 1.115, Ceiling / Working Plane: 1.229.

Pure daylight scene, no luminaires involved.

Lampiran 20. Hasil Simulasi Dialux Rekomendasi *Lightshelves* Ruang Hitungan

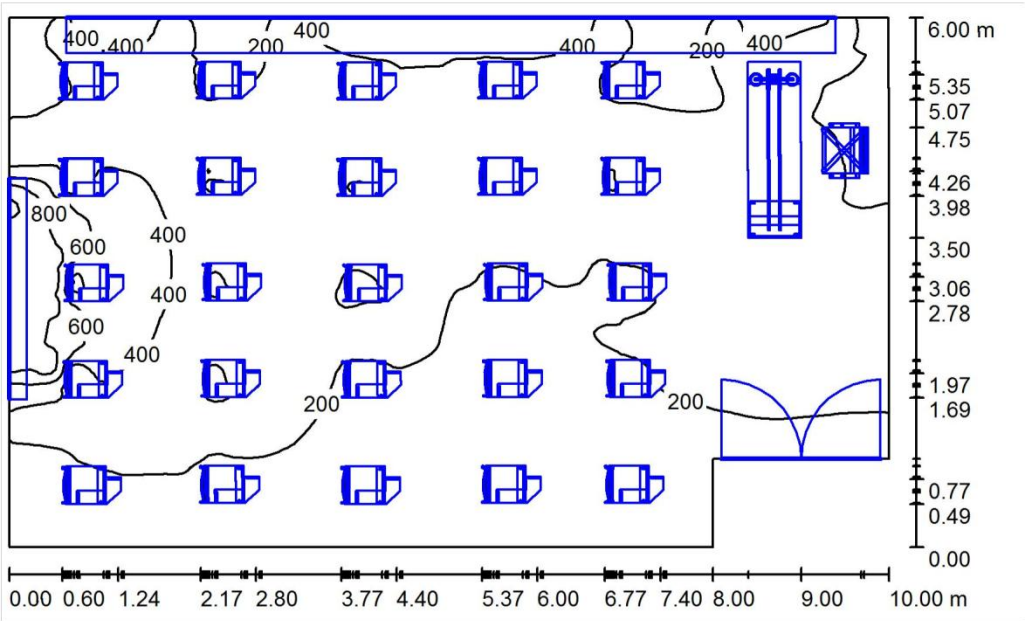
Project 1

DIALux

16.08.2016

Operator
Telephone
Fax
e-Mail

Room 1 / Light scene 1 / Summary



Height of Room: 4.000 m, Maintenance factor: 0.80 Values in Lux, Scale 1:78

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0
Workplane	/	263	87	1086	0.331
Floor	26	181	90	389	0.497
Ceiling	73	128	66	238	0.514
Walls (6)	52	0.00	0.00	0.00	/

Workplane:
Height: 0.750 m
Grid: 128 x 128 Points
Boundary Zone: 0.000 m
Illuminance Quotient (according to LG7): Walls / Working Plane: 0.562, Ceiling / Working Plane: 0.486.

Pure daylight scene, no luminaires involved.