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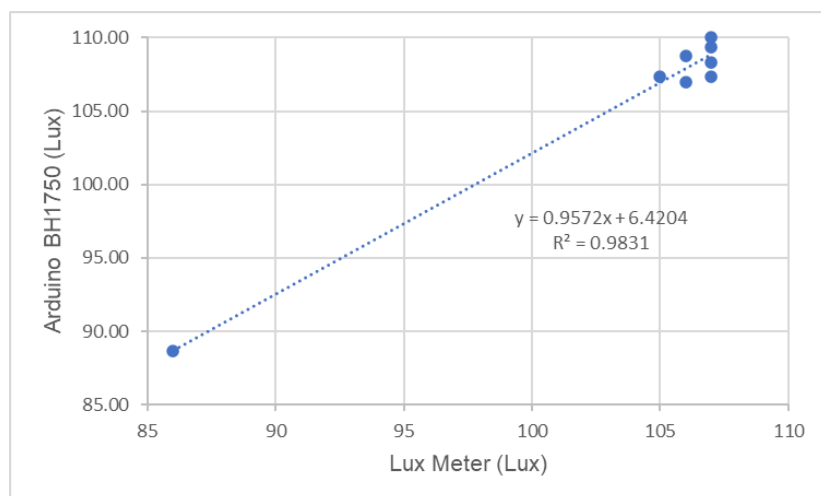
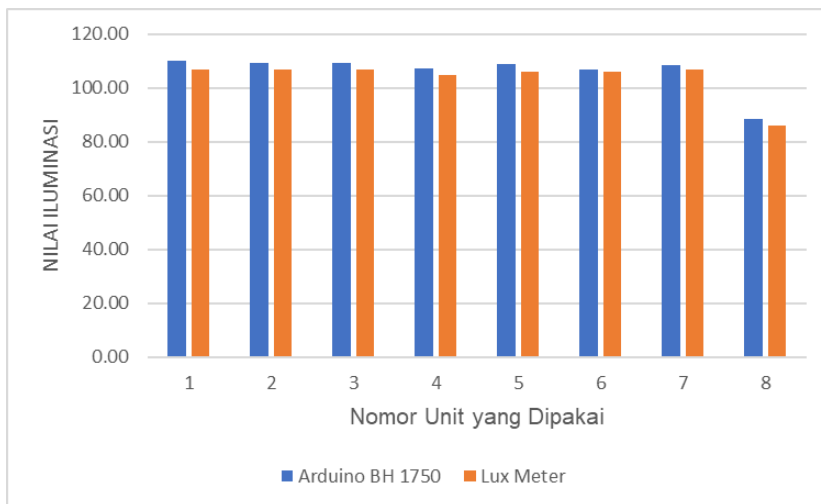
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LAMPIRAN

Lampiran 1. Grafik dan tabel hasil kalibrasi arduino BH1750, 30 Maret 2024

	1	2	3	4	5	6	7	8
Arduino BH 1750 (lux)	110.00	109.33	109.33	107.33	108.75	107.00	108.33	88.7
Lux Meter (lux)	107	107	107	105	106	106	107	86
Error Percentage	2.80%	2.18%	2.18%	2.22%	2.59%	1.0%	1.25%	3.14%

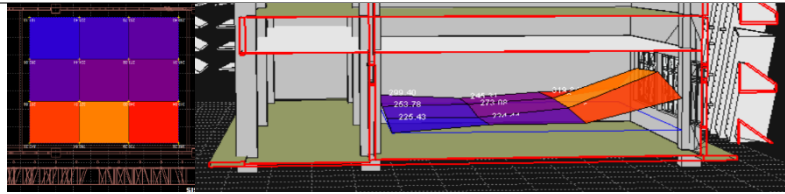


Lampiran 2. Bentuk tabel pengumpulan data

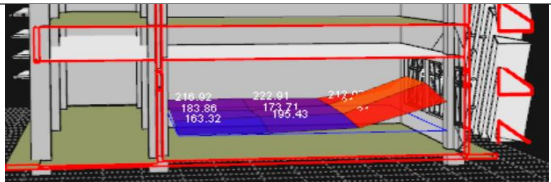
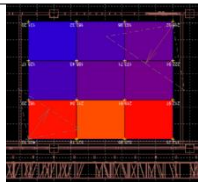
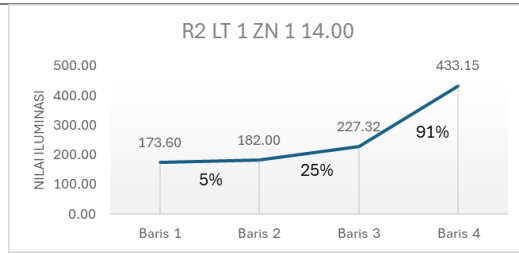
No.	Nama Ruang	Waktu	Titik Ukur (lux)															
			Baris 1				Baris 2				Baris 3				Baris 4			
			A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
1.	RK 1 zona 1 lt.2	08.00																
2.	RK 4 zona 1 lt.2																	
3.	RK 5 zona 1 lt.2																	
4.	RK 3 zona 2 lt.2																	
5.	RK 2 zona 1 lt.1																	
6.	RK 2 zona 2 lt.1																	
7.	RK 1 zona 1 lt.2	10.00																
8.	RK 4 zona 1 lt.2																	
9.	RK 5 zona 1 lt.2																	
10.	RK 3 zona 2 lt.2																	
11.	RK 2 zona 1 lt.1																	
12.	RK 2 zona 2 lt.1																	
13.	RK 1 zona 1 lt.2	12.00																
14.	RK 4 zona 1 lt.2																	

Lampiran 3. Grafik rata-rata intensitas dan distribusi masing-masing jam pada ruang kelas 2 zona 1 lantai 1

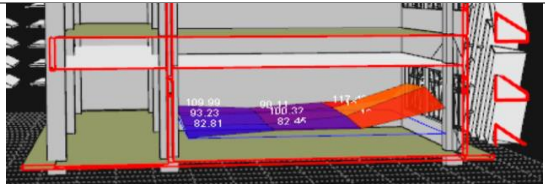
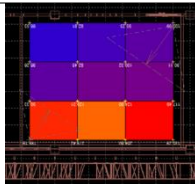
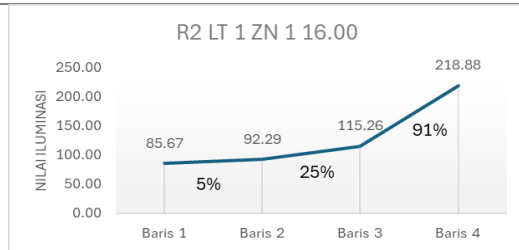
Waktu	Grafik dan Visual															
08.00	<p style="text-align: center;">R2 LT 1 ZN 1 08.00</p> <table border="1"> <thead> <tr> <th>Baris</th> <th>Nilai Iluminasi</th> <th>Persentase</th> </tr> </thead> <tbody> <tr> <td>Baris 1</td> <td>355.00</td> <td>5%</td> </tr> <tr> <td>Baris 2</td> <td>371.70</td> <td>27%</td> </tr> <tr> <td>Baris 3</td> <td>464.23</td> <td>87%</td> </tr> <tr> <td>Baris 4</td> <td>869.59</td> <td></td> </tr> </tbody> </table>	Baris	Nilai Iluminasi	Persentase	Baris 1	355.00	5%	Baris 2	371.70	27%	Baris 3	464.23	87%	Baris 4	869.59	
Baris	Nilai Iluminasi	Persentase														
Baris 1	355.00	5%														
Baris 2	371.70	27%														
Baris 3	464.23	87%														
Baris 4	869.59															
10.00	<p style="text-align: center;">R2 LT 1 ZN 1 10.00</p> <table border="1"> <thead> <tr> <th>Baris</th> <th>Nilai Iluminasi</th> <th>Persentase</th> </tr> </thead> <tbody> <tr> <td>Baris 1</td> <td>367.24</td> <td>5%</td> </tr> <tr> <td>Baris 2</td> <td>384.52</td> <td>25%</td> </tr> <tr> <td>Baris 3</td> <td>480.24</td> <td>91%</td> </tr> <tr> <td>Baris 4</td> <td>915.09</td> <td></td> </tr> </tbody> </table>	Baris	Nilai Iluminasi	Persentase	Baris 1	367.24	5%	Baris 2	384.52	25%	Baris 3	480.24	91%	Baris 4	915.09	
Baris	Nilai Iluminasi	Persentase														
Baris 1	367.24	5%														
Baris 2	384.52	25%														
Baris 3	480.24	91%														
Baris 4	915.09															
12.00	<p style="text-align: center;">R2 LT 1 ZN 1 12.00</p> <table border="1"> <thead> <tr> <th>Baris</th> <th>Nilai Iluminasi</th> <th>Persentase</th> </tr> </thead> <tbody> <tr> <td>Baris 1</td> <td>239.93</td> <td>5%</td> </tr> <tr> <td>Baris 2</td> <td>251.22</td> <td>25%</td> </tr> <tr> <td>Baris 3</td> <td>313.76</td> <td>91%</td> </tr> <tr> <td>Baris 4</td> <td>597.86</td> <td></td> </tr> </tbody> </table>	Baris	Nilai Iluminasi	Persentase	Baris 1	239.93	5%	Baris 2	251.22	25%	Baris 3	313.76	91%	Baris 4	597.86	
Baris	Nilai Iluminasi	Persentase														
Baris 1	239.93	5%														
Baris 2	251.22	25%														
Baris 3	313.76	91%														
Baris 4	597.86															



14.00

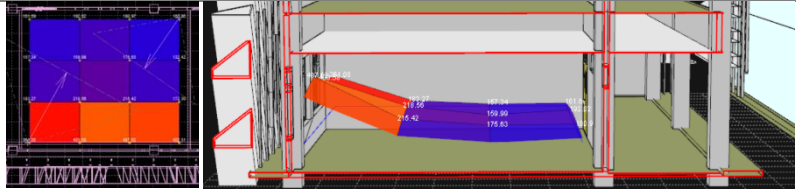


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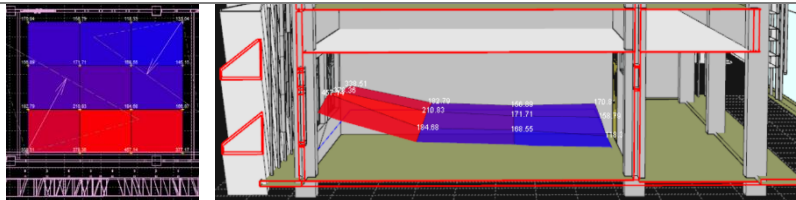
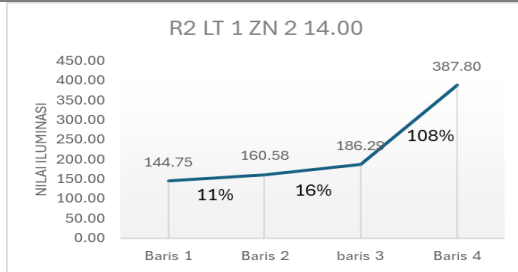


Lampiran 4. Grafik rata-rata simulasi masing-masing jam pada ruang kelas 2 zona 2 lantai 1

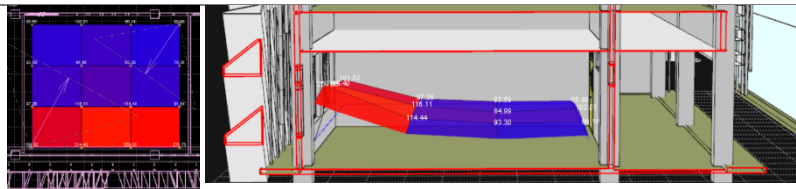
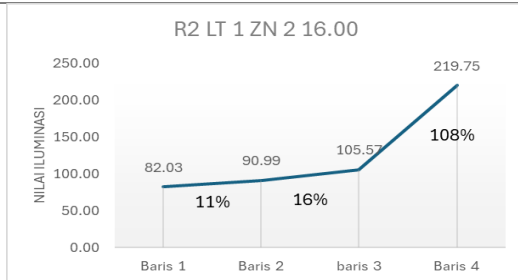
Waktu	Grafik dan Visual															
08.00	<p style="text-align: center;">R2 LT 1 ZN 2 08.00</p> <table border="1"> <thead> <tr> <th>Baris</th> <th>Nilai Iluminasi</th> <th>Persentase</th> </tr> </thead> <tbody> <tr> <td>Baris 1</td> <td>120.62</td> <td>11%</td> </tr> <tr> <td>Baris 2</td> <td>133.81</td> <td>16%</td> </tr> <tr> <td>Baris 3</td> <td>155.24</td> <td></td> </tr> <tr> <td>Baris 4</td> <td>323.16</td> <td>108%</td> </tr> </tbody> </table>	Baris	Nilai Iluminasi	Persentase	Baris 1	120.62	11%	Baris 2	133.81	16%	Baris 3	155.24		Baris 4	323.16	108%
Baris	Nilai Iluminasi	Persentase														
Baris 1	120.62	11%														
Baris 2	133.81	16%														
Baris 3	155.24															
Baris 4	323.16	108%														
10.00	<p style="text-align: center;">R2 LT 1 ZN 2 10.00</p> <table border="1"> <thead> <tr> <th>Baris</th> <th>Nilai Iluminasi</th> <th>Persentase</th> </tr> </thead> <tbody> <tr> <td>Baris 1</td> <td>168.65</td> <td>11%</td> </tr> <tr> <td>Baris 2</td> <td>187.34</td> <td>16%</td> </tr> <tr> <td>Baris 3</td> <td>217.33</td> <td></td> </tr> <tr> <td>Baris 4</td> <td>452.43</td> <td>108%</td> </tr> </tbody> </table>	Baris	Nilai Iluminasi	Persentase	Baris 1	168.65	11%	Baris 2	187.34	16%	Baris 3	217.33		Baris 4	452.43	108%
Baris	Nilai Iluminasi	Persentase														
Baris 1	168.65	11%														
Baris 2	187.34	16%														
Baris 3	217.33															
Baris 4	452.43	108%														
12.00	<p style="text-align: center;">R2 LT 1 ZN 2 12.00</p> <table border="1"> <thead> <tr> <th>Baris</th> <th>Nilai Iluminasi</th> <th>Persentase</th> </tr> </thead> <tbody> <tr> <td>Baris 1</td> <td>154.40</td> <td>11%</td> </tr> <tr> <td>Baris 2</td> <td>171.28</td> <td>16%</td> </tr> <tr> <td>Baris 3</td> <td>198.71</td> <td></td> </tr> <tr> <td>Baris 4</td> <td>414.40</td> <td>109%</td> </tr> </tbody> </table>	Baris	Nilai Iluminasi	Persentase	Baris 1	154.40	11%	Baris 2	171.28	16%	Baris 3	198.71		Baris 4	414.40	109%
Baris	Nilai Iluminasi	Persentase														
Baris 1	154.40	11%														
Baris 2	171.28	16%														
Baris 3	198.71															
Baris 4	414.40	109%														



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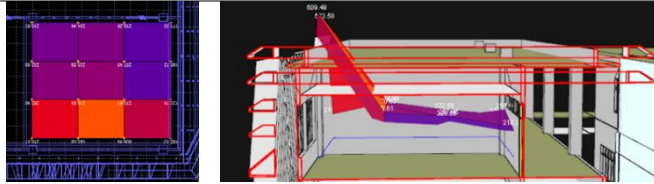


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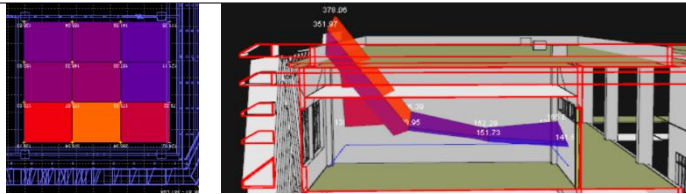
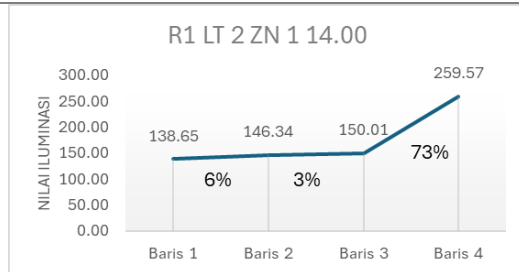


Lampiran 5. Grafik rata-rata simulasi masing-masing jam pada ruang kelas 1 zona 1 lantai 2

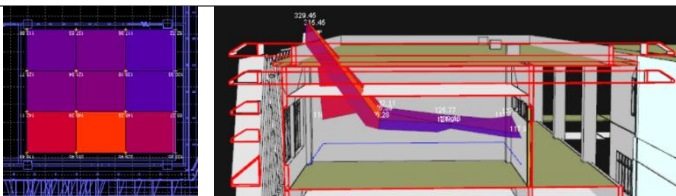
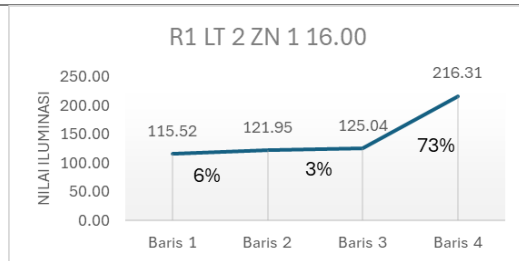
Waktu	Grafik dan Visual															
08.00	<p>R1 LT 2 ZN 1 08.00</p> <table border="1"> <thead> <tr> <th>Baris</th> <th>Nilai Iluminasi</th> <th>Perubahan (%)</th> </tr> </thead> <tbody> <tr> <td>Baris 1</td> <td>288.81</td> <td>6%</td> </tr> <tr> <td>Baris 2</td> <td>304.88</td> <td>3%</td> </tr> <tr> <td>Baris 3</td> <td>312.53</td> <td>3%</td> </tr> <tr> <td>Baris 4</td> <td>540.77</td> <td>73%</td> </tr> </tbody> </table>	Baris	Nilai Iluminasi	Perubahan (%)	Baris 1	288.81	6%	Baris 2	304.88	3%	Baris 3	312.53	3%	Baris 4	540.77	73%
Baris	Nilai Iluminasi	Perubahan (%)														
Baris 1	288.81	6%														
Baris 2	304.88	3%														
Baris 3	312.53	3%														
Baris 4	540.77	73%														
10.00	<p>R1 LT 2 ZN 1 10.00</p> <table border="1"> <thead> <tr> <th>Baris</th> <th>Nilai Iluminasi</th> <th>Perubahan (%)</th> </tr> </thead> <tbody> <tr> <td>Baris 1</td> <td>300.36</td> <td>6%</td> </tr> <tr> <td>Baris 2</td> <td>317.07</td> <td>3%</td> </tr> <tr> <td>Baris 3</td> <td>325.03</td> <td>3%</td> </tr> <tr> <td>Baris 4</td> <td>562.91</td> <td>73%</td> </tr> </tbody> </table>	Baris	Nilai Iluminasi	Perubahan (%)	Baris 1	300.36	6%	Baris 2	317.07	3%	Baris 3	325.03	3%	Baris 4	562.91	73%
Baris	Nilai Iluminasi	Perubahan (%)														
Baris 1	300.36	6%														
Baris 2	317.07	3%														
Baris 3	325.03	3%														
Baris 4	562.91	73%														
12.00	<p>R1 LT 2 ZN 1 12.00</p> <table border="1"> <thead> <tr> <th>Baris</th> <th>Nilai Iluminasi</th> <th>Perubahan (%)</th> </tr> </thead> <tbody> <tr> <td>Baris 1</td> <td>213.72</td> <td>6%</td> </tr> <tr> <td>Baris 2</td> <td>225.61</td> <td>3%</td> </tr> <tr> <td>Baris 3</td> <td>231.27</td> <td>3%</td> </tr> <tr> <td>Baris 4</td> <td>400.13</td> <td>73%</td> </tr> </tbody> </table>	Baris	Nilai Iluminasi	Perubahan (%)	Baris 1	213.72	6%	Baris 2	225.61	3%	Baris 3	231.27	3%	Baris 4	400.13	73%
Baris	Nilai Iluminasi	Perubahan (%)														
Baris 1	213.72	6%														
Baris 2	225.61	3%														
Baris 3	231.27	3%														
Baris 4	400.13	73%														



14.00

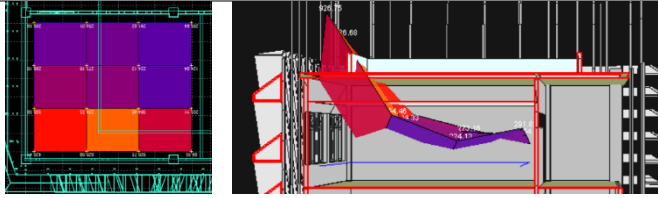


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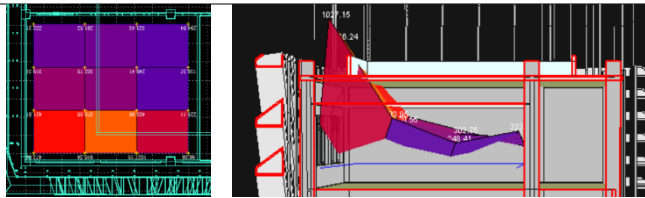
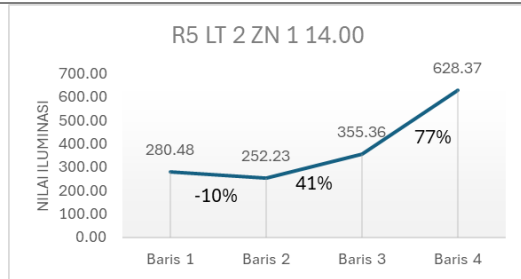


Lampiran 6. Grafik rata-rata simulasi masing-masing jam pada ruang kelas 5 zona 1 lantai 2

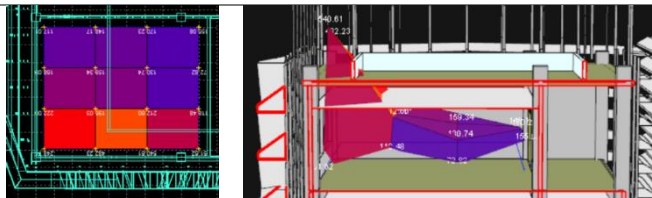
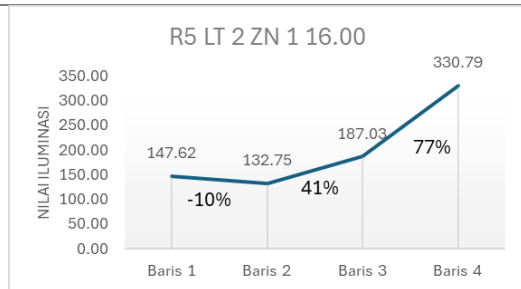
Waktu	Grafik dan Visual															
08.00	<p style="text-align: center;">R5 LT 2 ZN 1 08.00</p> <table border="1"> <thead> <tr> <th>Baris</th> <th>Nilai Iluminasi</th> <th>Perubahan (%)</th> </tr> </thead> <tbody> <tr> <td>Baris 1</td> <td>316.33</td> <td>-</td> </tr> <tr> <td>Baris 2</td> <td>284.42</td> <td>-10%</td> </tr> <tr> <td>Baris 3</td> <td>400.65</td> <td>41%</td> </tr> <tr> <td>Baris 4</td> <td>708.86</td> <td>77%</td> </tr> </tbody> </table>	Baris	Nilai Iluminasi	Perubahan (%)	Baris 1	316.33	-	Baris 2	284.42	-10%	Baris 3	400.65	41%	Baris 4	708.86	77%
Baris	Nilai Iluminasi	Perubahan (%)														
Baris 1	316.33	-														
Baris 2	284.42	-10%														
Baris 3	400.65	41%														
Baris 4	708.86	77%														
10.00	<p style="text-align: center;">R5 LT 2 ZN 1 10.00</p> <table border="1"> <thead> <tr> <th>Baris</th> <th>Nilai Iluminasi</th> <th>Perubahan (%)</th> </tr> </thead> <tbody> <tr> <td>Baris 1</td> <td>379.60</td> <td>-</td> </tr> <tr> <td>Baris 2</td> <td>341.36</td> <td>-10%</td> </tr> <tr> <td>Baris 3</td> <td>480.93</td> <td>41%</td> </tr> <tr> <td>Baris 4</td> <td>850.63</td> <td>77%</td> </tr> </tbody> </table>	Baris	Nilai Iluminasi	Perubahan (%)	Baris 1	379.60	-	Baris 2	341.36	-10%	Baris 3	480.93	41%	Baris 4	850.63	77%
Baris	Nilai Iluminasi	Perubahan (%)														
Baris 1	379.60	-														
Baris 2	341.36	-10%														
Baris 3	480.93	41%														
Baris 4	850.63	77%														
12.00	<p style="text-align: center;">R5 LT 2 ZN 1 12.00</p> <table border="1"> <thead> <tr> <th>Baris</th> <th>Nilai Iluminasi</th> <th>Perubahan (%)</th> </tr> </thead> <tbody> <tr> <td>Baris 1</td> <td>250.56</td> <td>-</td> </tr> <tr> <td>Baris 2</td> <td>227.57</td> <td>-9%</td> </tr> <tr> <td>Baris 3</td> <td>320.62</td> <td>41%</td> </tr> <tr> <td>Baris 4</td> <td>567.09</td> <td>77%</td> </tr> </tbody> </table>	Baris	Nilai Iluminasi	Perubahan (%)	Baris 1	250.56	-	Baris 2	227.57	-9%	Baris 3	320.62	41%	Baris 4	567.09	77%
Baris	Nilai Iluminasi	Perubahan (%)														
Baris 1	250.56	-														
Baris 2	227.57	-9%														
Baris 3	320.62	41%														
Baris 4	567.09	77%														



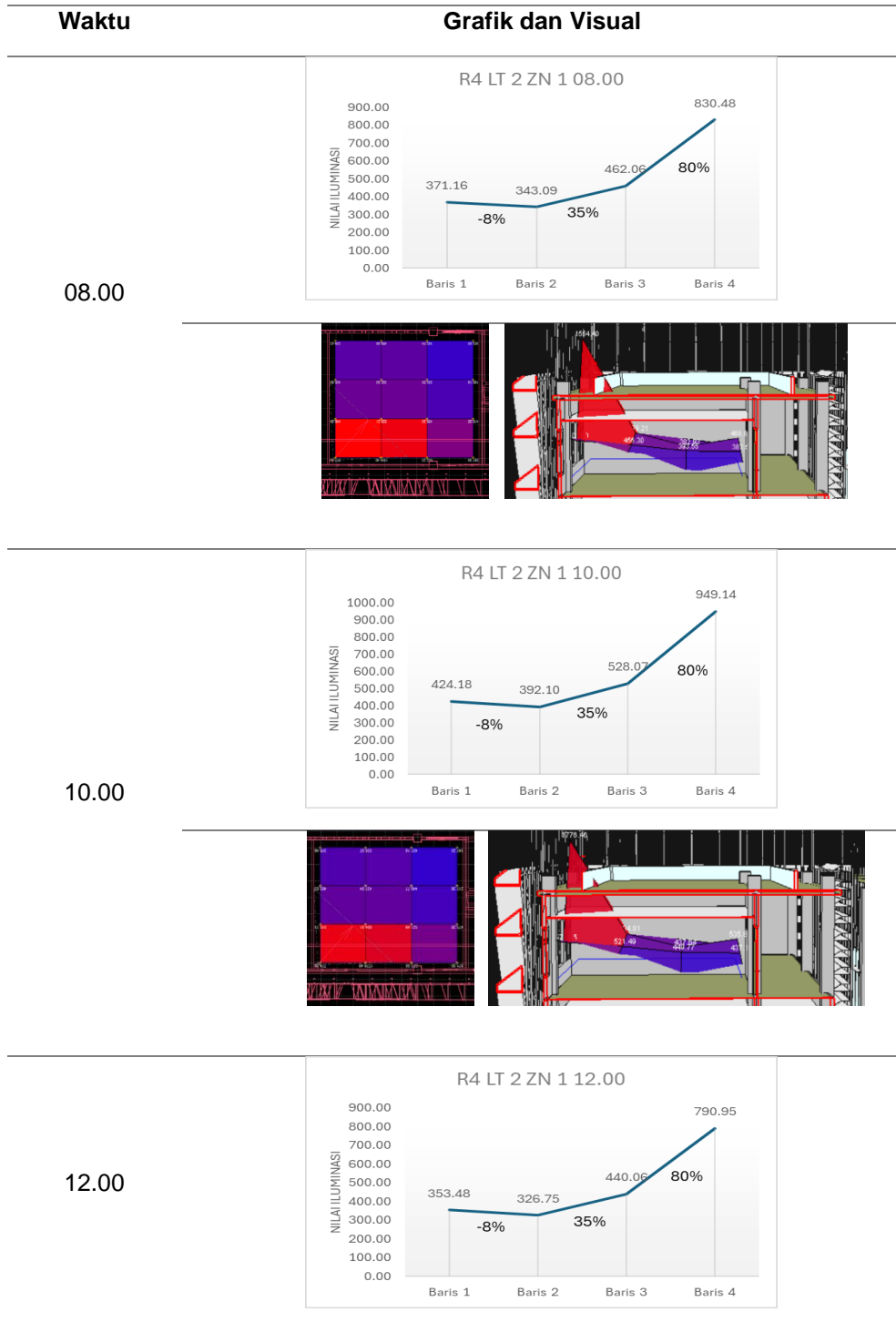
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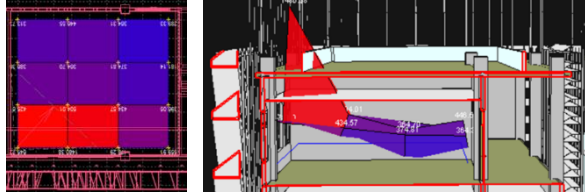


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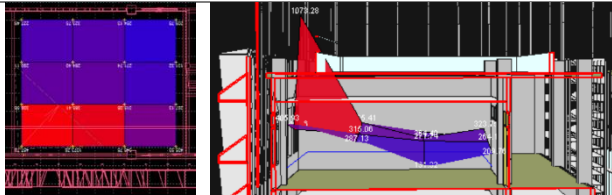
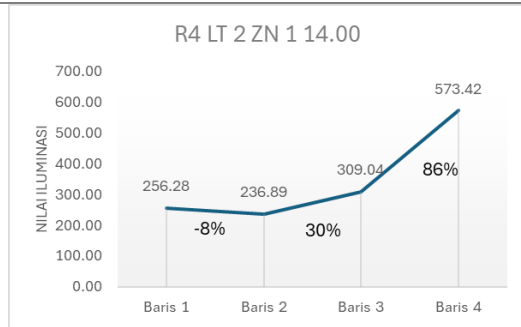


Lampiran 7. Grafik rata-rata simulasi masing-masing jam pada ruang kelas 4 zona 1 lantai 2

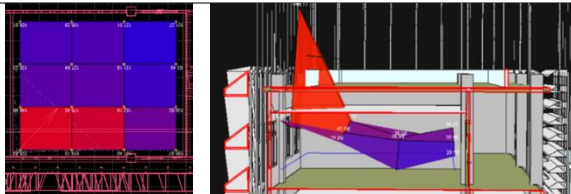
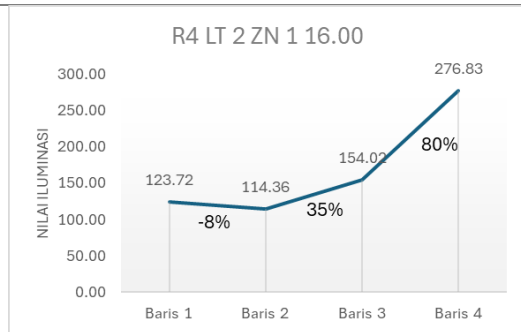




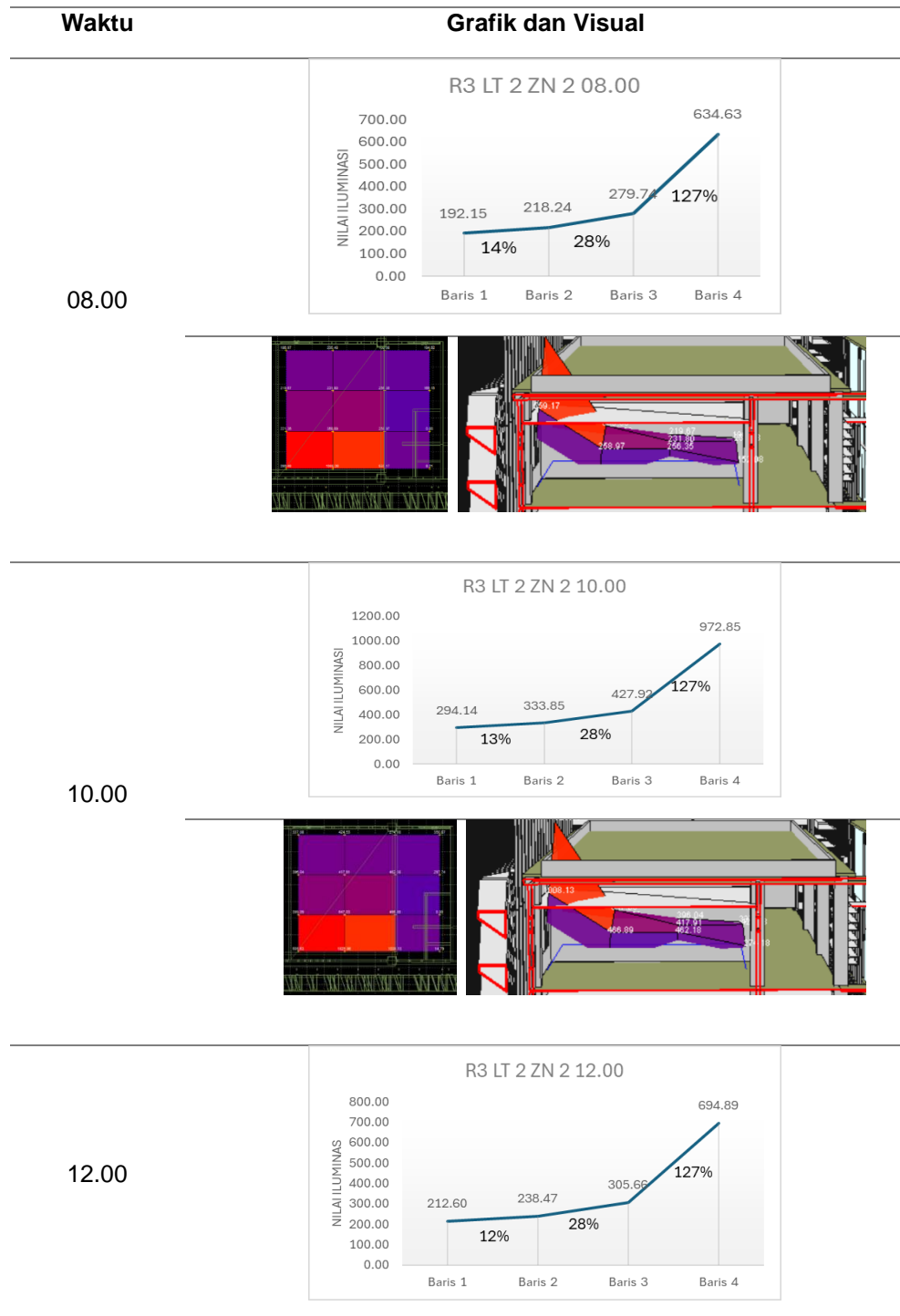
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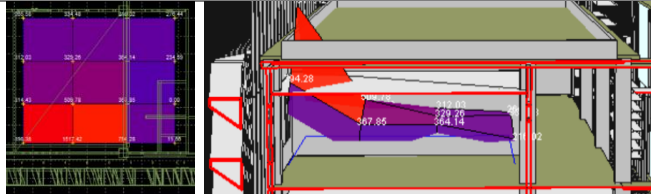


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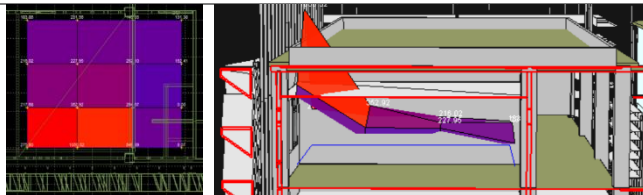
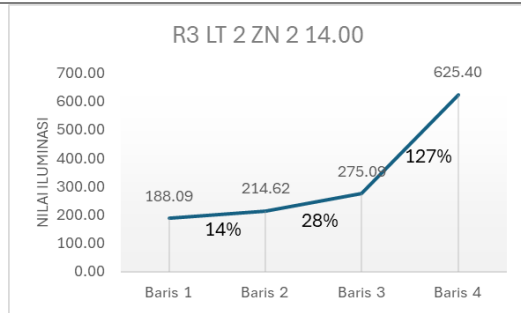


Lampiran 8. Grafik rata-rata simulasi masing-masing jam pada ruang kelas 3 zona 2 lantai 2

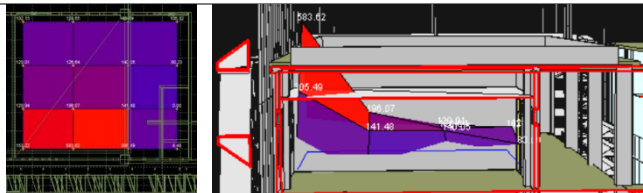
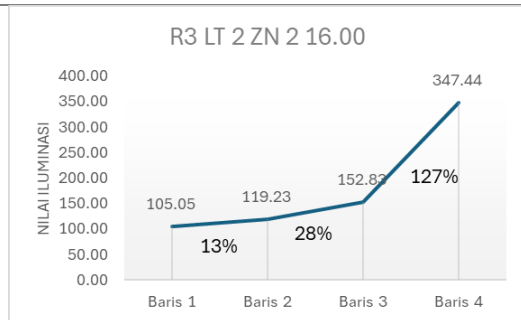




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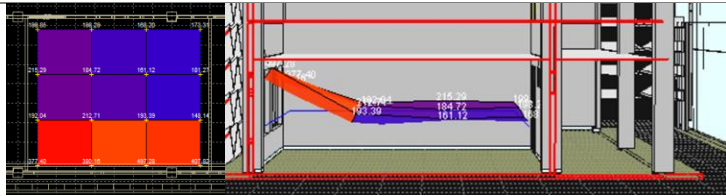


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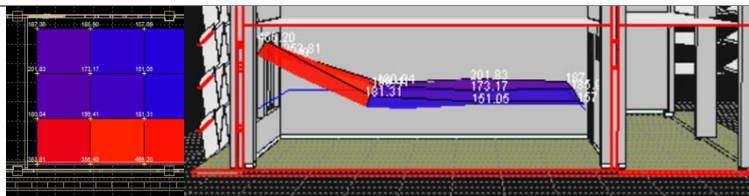
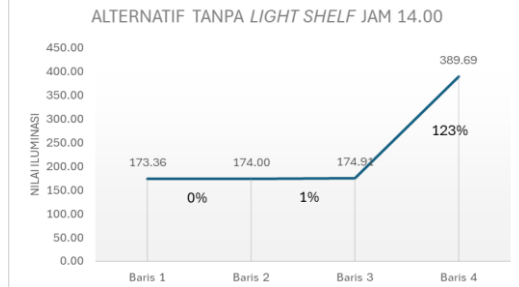


Lampiran 9. Grafik rata-rata simulasi masing-masing jam pada model alternatif *sun-shading*

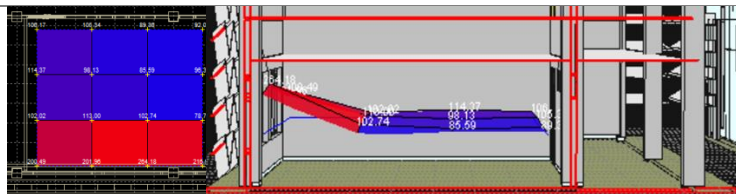
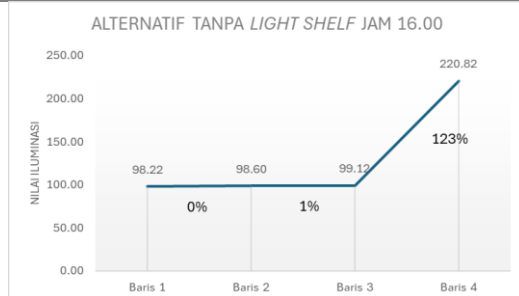
Waktu	Grafik dan Visual															
08.00	<p style="text-align: center;">ALTERNATIF TANPA <i>LIGHT SHELF</i> JAM 08.00</p> <table border="1"> <caption>Data for 08.00 Graph</caption> <thead> <tr> <th>Baris</th> <th>Nilai Luminansi</th> <th>Perubahan (%)</th> </tr> </thead> <tbody> <tr> <td>Baris 1</td> <td>144.46</td> <td>0%</td> </tr> <tr> <td>Baris 2</td> <td>145.00</td> <td>1%</td> </tr> <tr> <td>Baris 3</td> <td>145.75</td> <td>1%</td> </tr> <tr> <td>Baris 4</td> <td>322.24</td> <td>121%</td> </tr> </tbody> </table>	Baris	Nilai Luminansi	Perubahan (%)	Baris 1	144.46	0%	Baris 2	145.00	1%	Baris 3	145.75	1%	Baris 4	322.24	121%
Baris	Nilai Luminansi	Perubahan (%)														
Baris 1	144.46	0%														
Baris 2	145.00	1%														
Baris 3	145.75	1%														
Baris 4	322.24	121%														
10.00	<p style="text-align: center;">ALTERNATIF TANPA <i>LIGHT SHELF</i> JAM 10.00</p> <table border="1"> <caption>Data for 10.00 Graph</caption> <thead> <tr> <th>Baris</th> <th>Nilai Luminansi</th> <th>Perubahan (%)</th> </tr> </thead> <tbody> <tr> <td>Baris 1</td> <td>202.25</td> <td>0%</td> </tr> <tr> <td>Baris 2</td> <td>203.00</td> <td>1%</td> </tr> <tr> <td>Baris 3</td> <td>204.00</td> <td>1%</td> </tr> <tr> <td>Baris 4</td> <td>454.63</td> <td>123%</td> </tr> </tbody> </table>	Baris	Nilai Luminansi	Perubahan (%)	Baris 1	202.25	0%	Baris 2	203.00	1%	Baris 3	204.00	1%	Baris 4	454.63	123%
Baris	Nilai Luminansi	Perubahan (%)														
Baris 1	202.25	0%														
Baris 2	203.00	1%														
Baris 3	204.00	1%														
Baris 4	454.63	123%														
12.00	<p style="text-align: center;">ALTERNATIF TANPA <i>LIGHT SHELF</i> JAM 12.00</p> <table border="1"> <caption>Data for 12.00 Graph</caption> <thead> <tr> <th>Baris</th> <th>Nilai Luminansi</th> <th>Perubahan (%)</th> </tr> </thead> <tbody> <tr> <td>Baris 1</td> <td>182.16</td> <td>0%</td> </tr> <tr> <td>Baris 2</td> <td>185.60</td> <td>1%</td> </tr> <tr> <td>Baris 3</td> <td>186.50</td> <td>1%</td> </tr> <tr> <td>Baris 4</td> <td>415.67</td> <td>123%</td> </tr> </tbody> </table>	Baris	Nilai Luminansi	Perubahan (%)	Baris 1	182.16	0%	Baris 2	185.60	1%	Baris 3	186.50	1%	Baris 4	415.67	123%
Baris	Nilai Luminansi	Perubahan (%)														
Baris 1	182.16	0%														
Baris 2	185.60	1%														
Baris 3	186.50	1%														
Baris 4	415.67	123%														



14.00

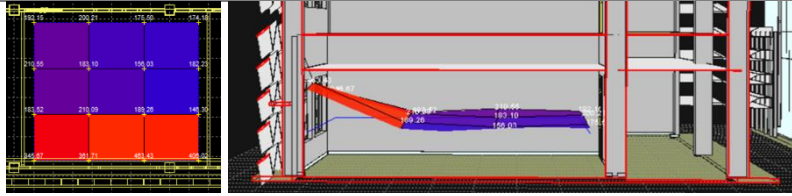


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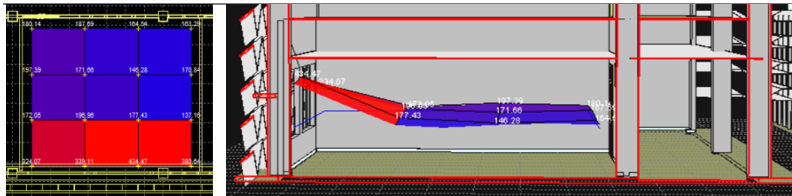
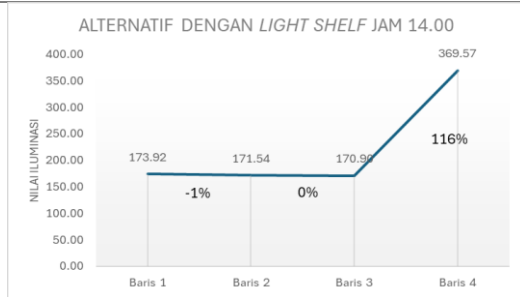


Lampiran 10. Grafik rata-rata simulasi masing-masing jam pada model alternatif sun-shading dengan *light shelf*

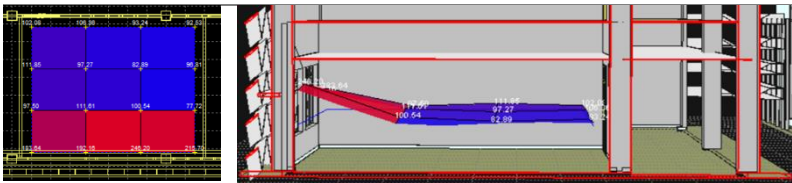
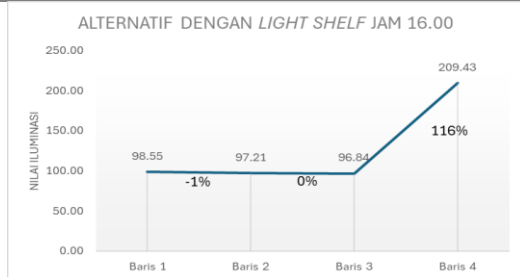
Waktu	Grafik dan Visual															
08.00	<p style="text-align: center;">ALTERNATIF DENGAN <i>LIGHT SHELF</i> JAM 08.00</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Baris</th> <th>Nilai (lx)</th> <th>Perubahan (%)</th> </tr> </thead> <tbody> <tr> <td>Baris 1</td> <td>144.93</td> <td>-</td> </tr> <tr> <td>Baris 2</td> <td>142.95</td> <td>-1%</td> </tr> <tr> <td>Baris 3</td> <td>142.47</td> <td>0%</td> </tr> <tr> <td>Baris 4</td> <td>307.98</td> <td>116%</td> </tr> </tbody> </table>	Baris	Nilai (lx)	Perubahan (%)	Baris 1	144.93	-	Baris 2	142.95	-1%	Baris 3	142.47	0%	Baris 4	307.98	116%
Baris	Nilai (lx)	Perubahan (%)														
Baris 1	144.93	-														
Baris 2	142.95	-1%														
Baris 3	142.47	0%														
Baris 4	307.98	116%														
10.00	<p style="text-align: center;">ALTERNATIF DENGAN <i>LIGHT SHELF</i> JAM 10.00</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Baris</th> <th>Nilai (lx)</th> <th>Perubahan (%)</th> </tr> </thead> <tbody> <tr> <td>Baris 1</td> <td>202.91</td> <td>-</td> </tr> <tr> <td>Baris 2</td> <td>200.13</td> <td>-1%</td> </tr> <tr> <td>Baris 3</td> <td>199.33</td> <td>0%</td> </tr> <tr> <td>Baris 4</td> <td>431.17</td> <td>116%</td> </tr> </tbody> </table>	Baris	Nilai (lx)	Perubahan (%)	Baris 1	202.91	-	Baris 2	200.13	-1%	Baris 3	199.33	0%	Baris 4	431.17	116%
Baris	Nilai (lx)	Perubahan (%)														
Baris 1	202.91	-														
Baris 2	200.13	-1%														
Baris 3	199.33	0%														
Baris 4	431.17	116%														
12.00	<p style="text-align: center;">ALTERNATIF DENGAN <i>LIGHT SHELF</i> JAM 12.00</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Baris</th> <th>Nilai (lx)</th> <th>Perubahan (%)</th> </tr> </thead> <tbody> <tr> <td>Baris 1</td> <td>185.51</td> <td>-</td> </tr> <tr> <td>Baris 2</td> <td>182.98</td> <td>-1%</td> </tr> <tr> <td>Baris 3</td> <td>182.23</td> <td>0%</td> </tr> <tr> <td>Baris 4</td> <td>394.21</td> <td>116%</td> </tr> </tbody> </table>	Baris	Nilai (lx)	Perubahan (%)	Baris 1	185.51	-	Baris 2	182.98	-1%	Baris 3	182.23	0%	Baris 4	394.21	116%
Baris	Nilai (lx)	Perubahan (%)														
Baris 1	185.51	-														
Baris 2	182.98	-1%														
Baris 3	182.23	0%														
Baris 4	394.21	116%														



14.00



16.00



Lampiran 11. Dokumentasi

