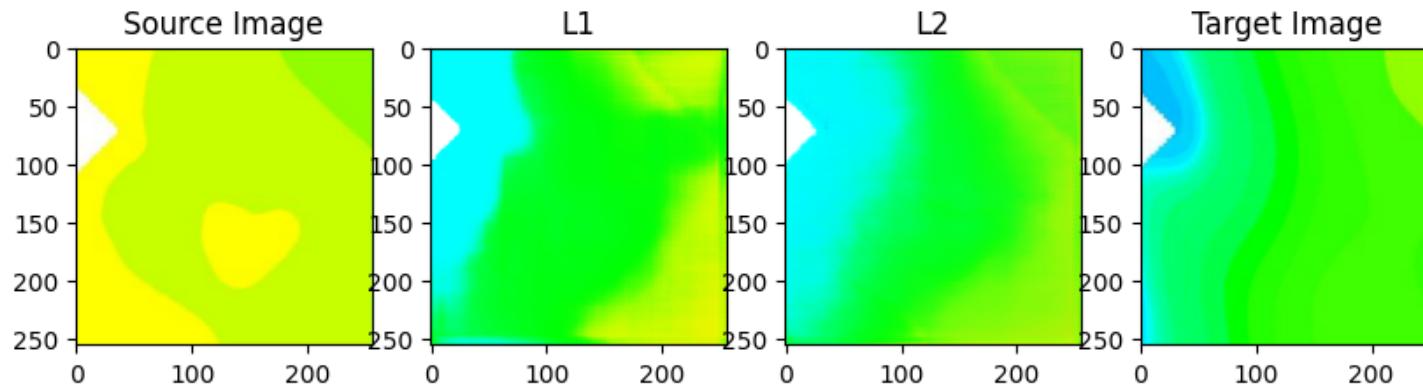


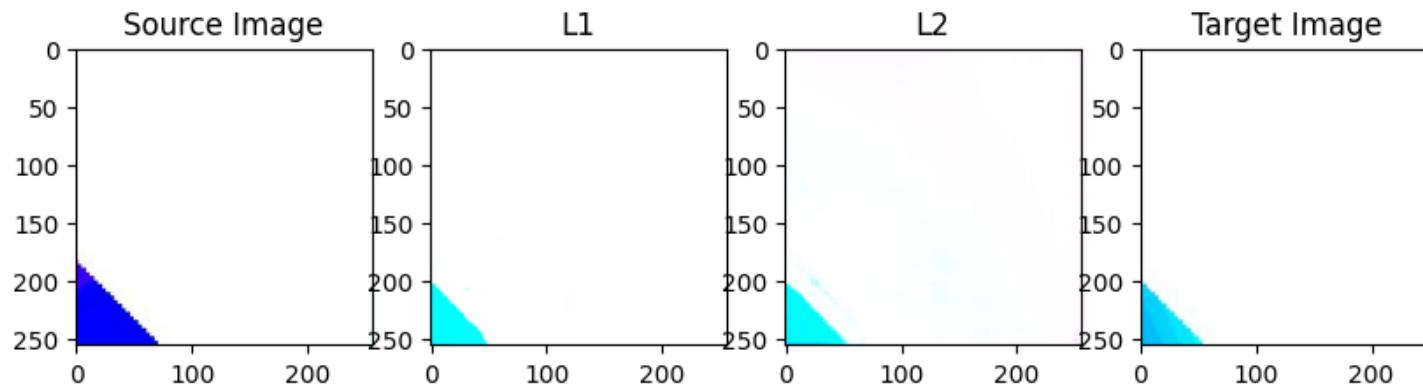
Index: 53

1/1 [=====] - 0s 368ms/step
1/1 [=====] - 0s 339ms/step



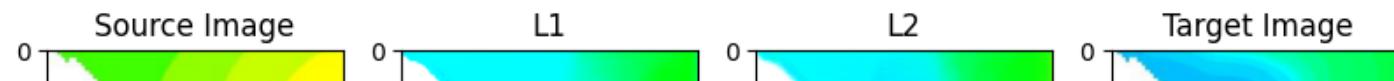
Index: 54

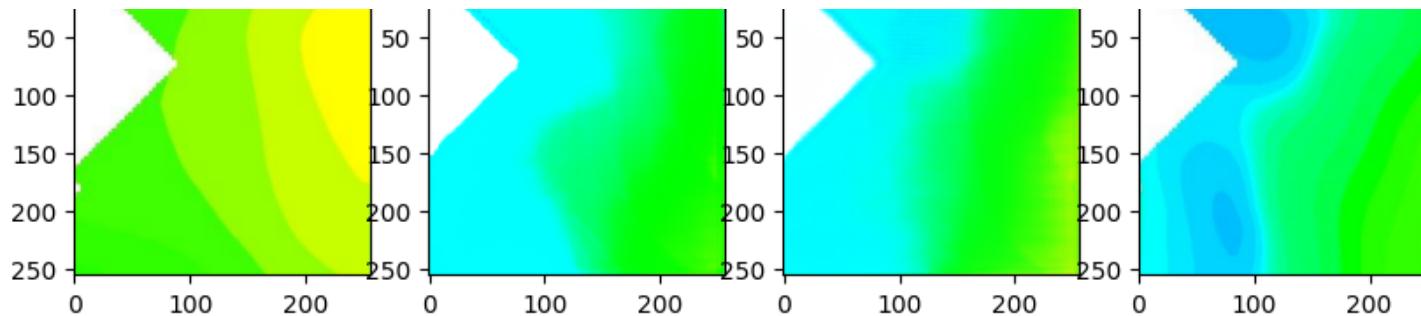
1/1 [=====] - 0s 340ms/step
1/1 [=====] - 0s 374ms/step



Index: 55

1/1 [=====] - 0s 358ms/step
1/1 [=====] - 0s 330ms/step

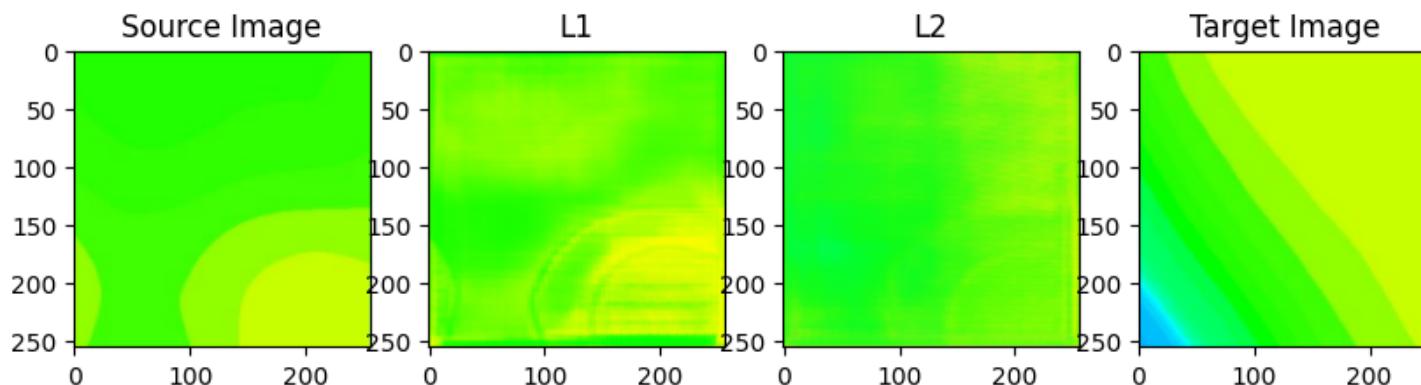




Index: 56

1/1 [=====] - 0s 487ms/step

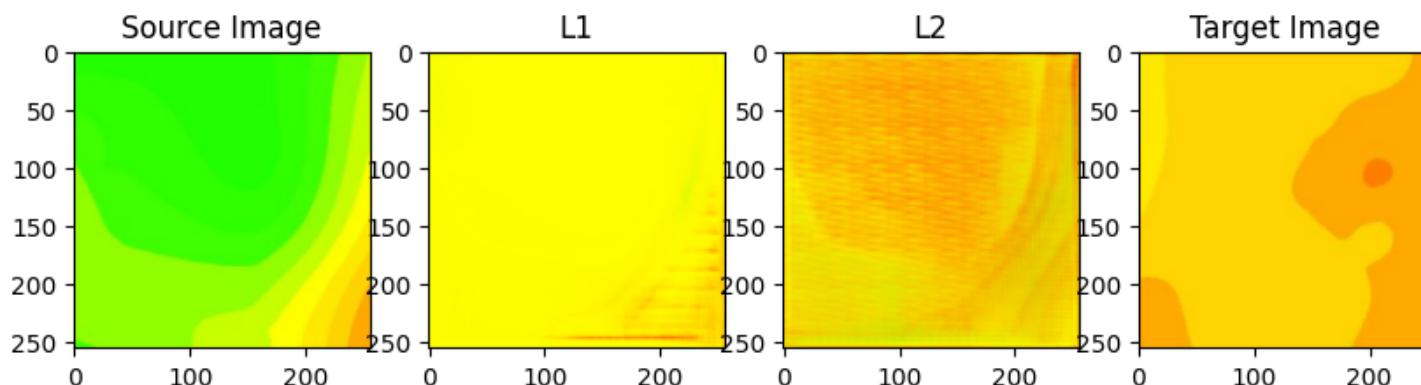
1/1 [=====] - 1s 509ms/step



Index: 57

1/1 [=====] - 0s 396ms/step

1/1 [=====] - 0s 355ms/step

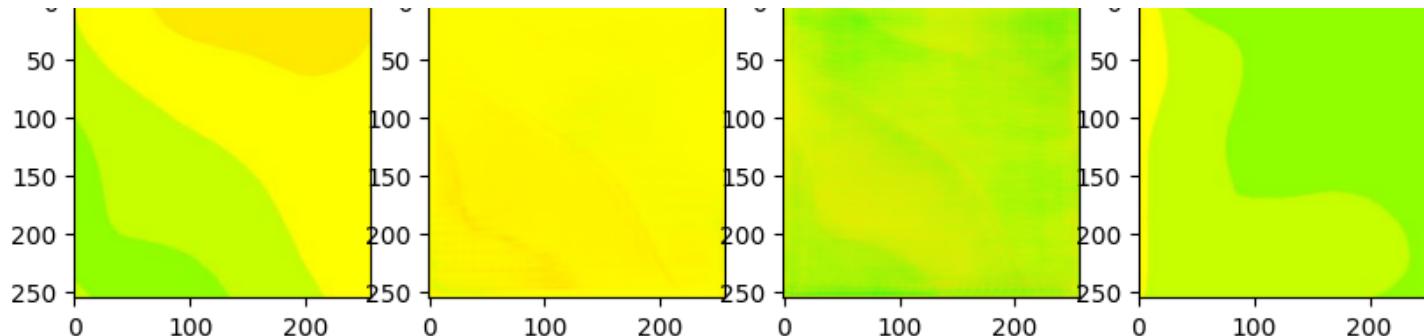


Index: 58

1/1 [=====] - 0s 348ms/step

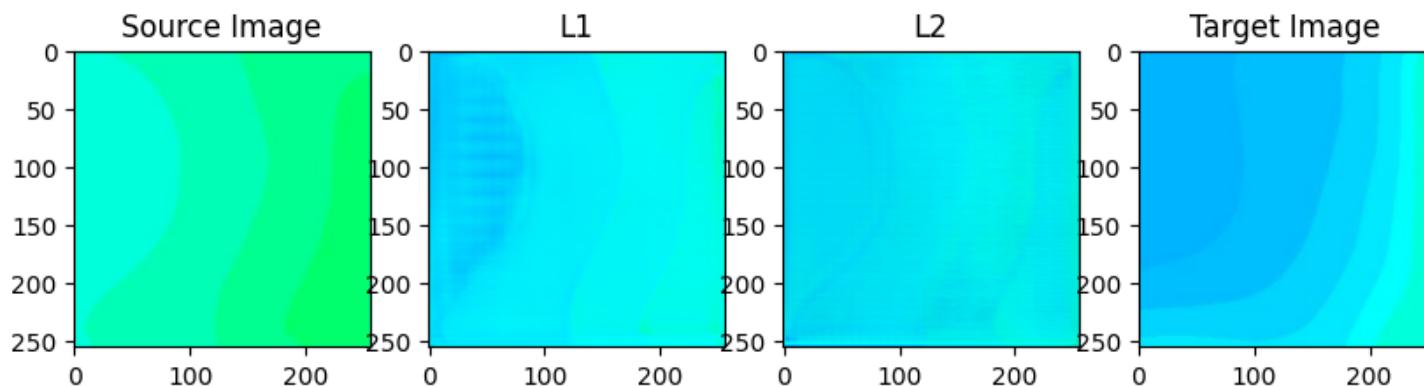
1/1 [=====] - 0s 347ms/step





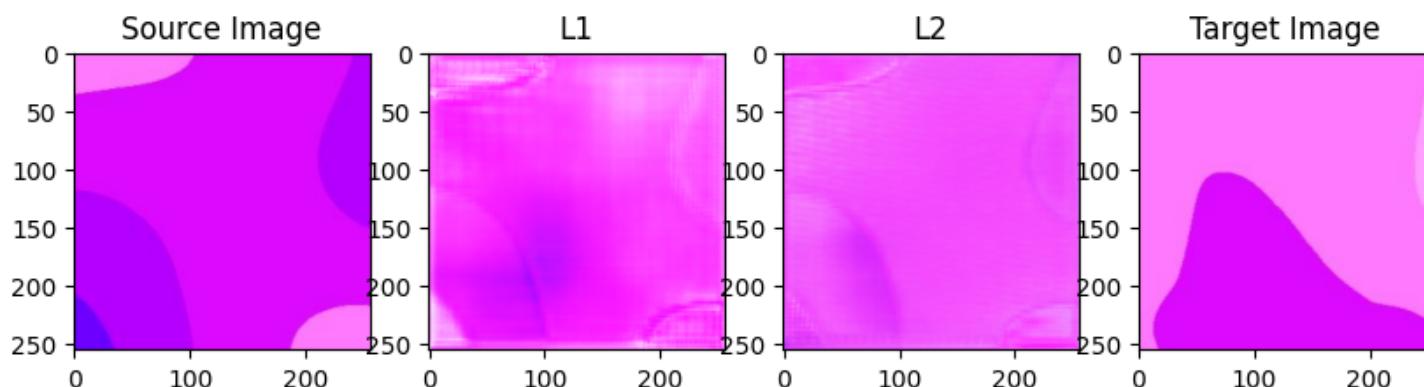
Index: 59

```
1/1 [=====] - 0s 374ms/step  
1/1 [=====] - 0s 356ms/step
```



Index: 60

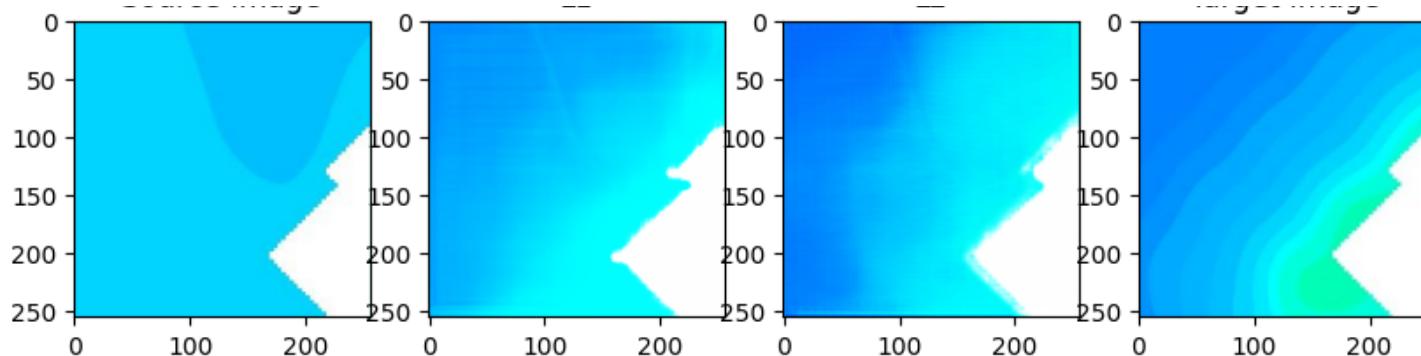
```
1/1 [=====] - 0s 355ms/step  
1/1 [=====] - 0s 356ms/step
```



Index: 61

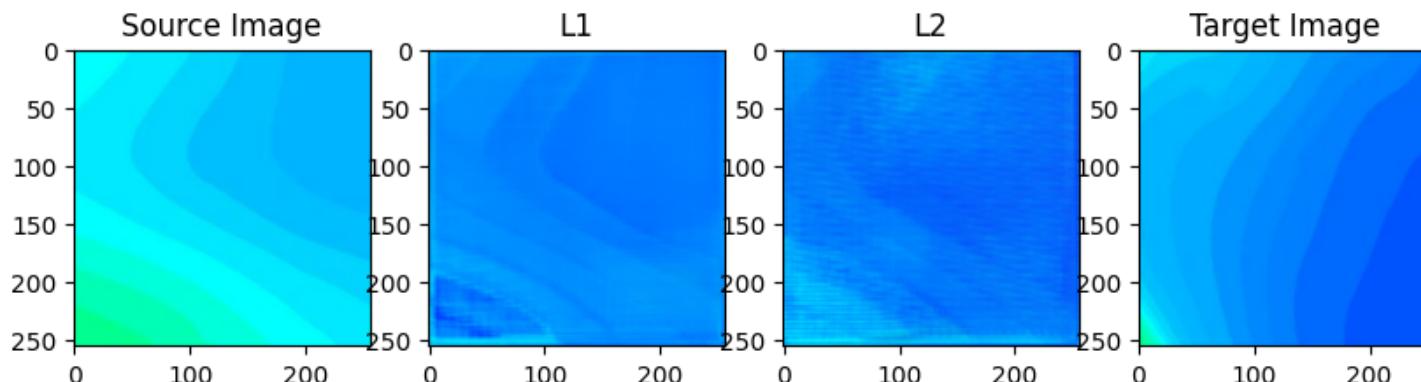
```
1/1 [=====] - 0s 324ms/step  
1/1 [=====] - 0s 326ms/step
```

Source Image L1 L2 Target Image



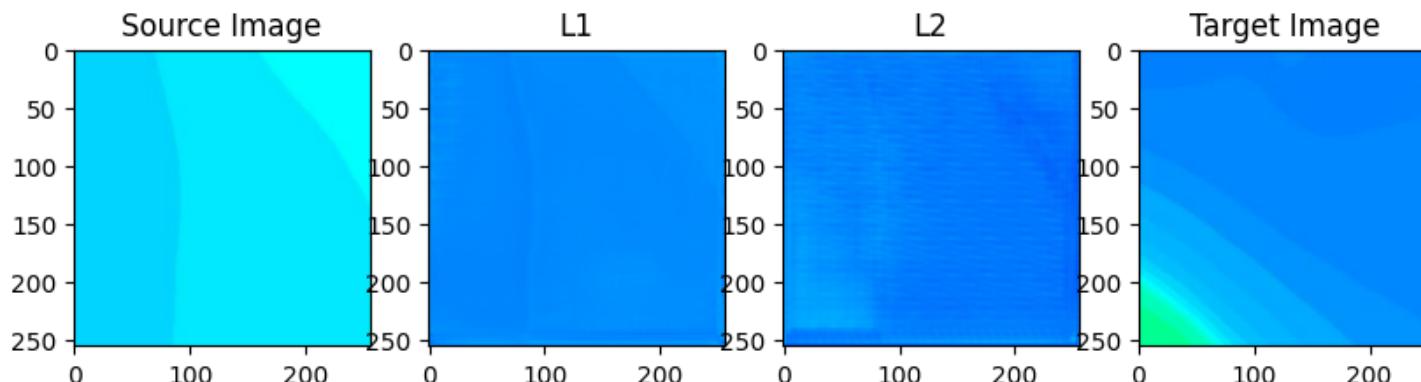
Index: 62

```
1/1 [=====] - 0s 352ms/step  
1/1 [=====] - 0s 349ms/step
```



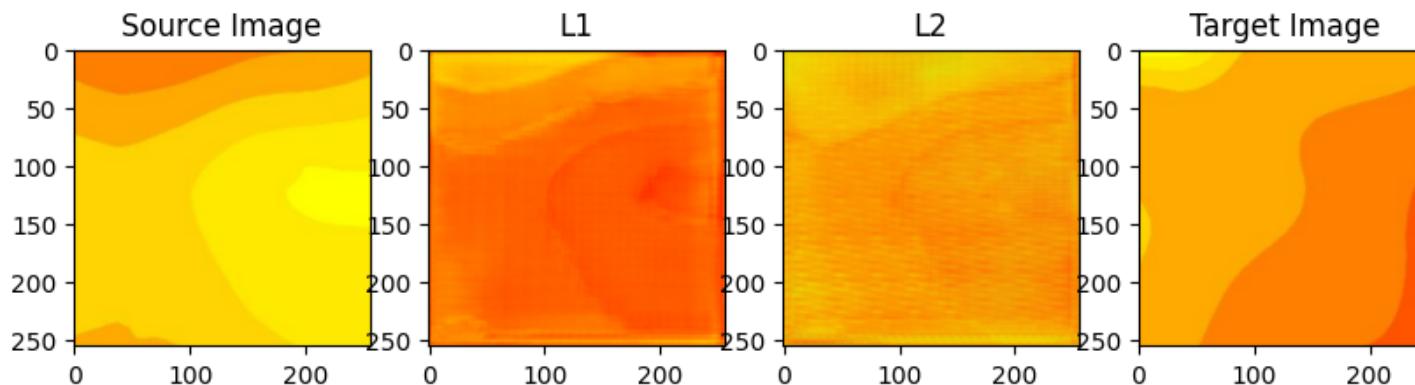
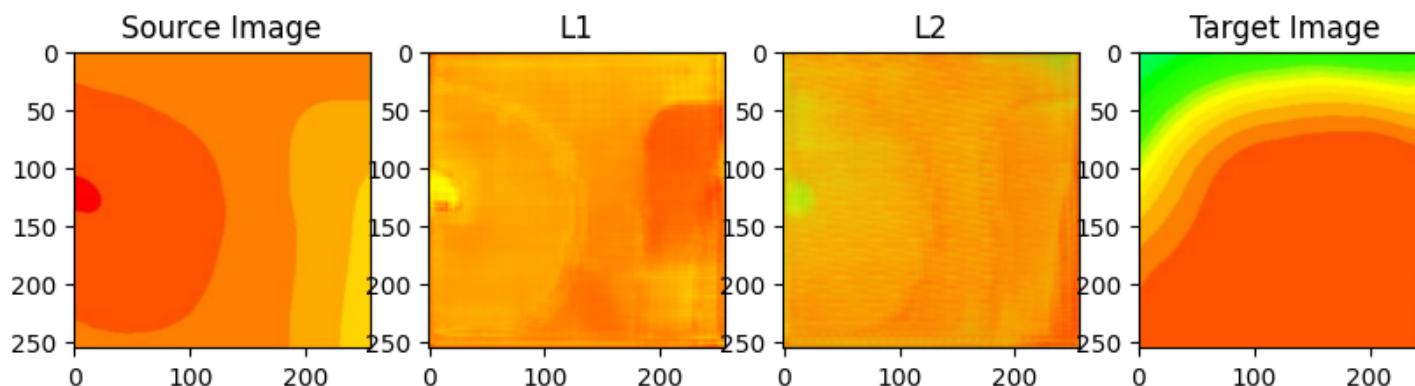
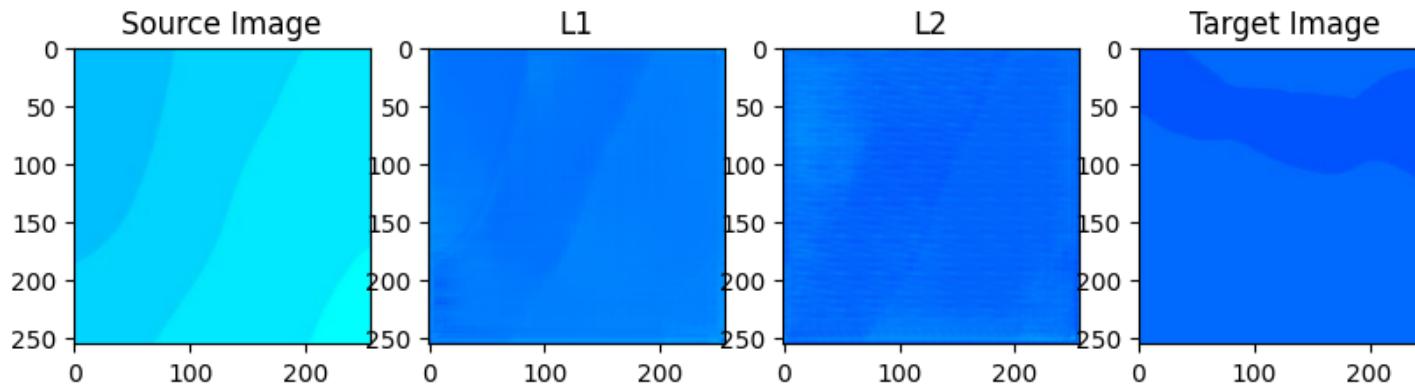
Index: 63

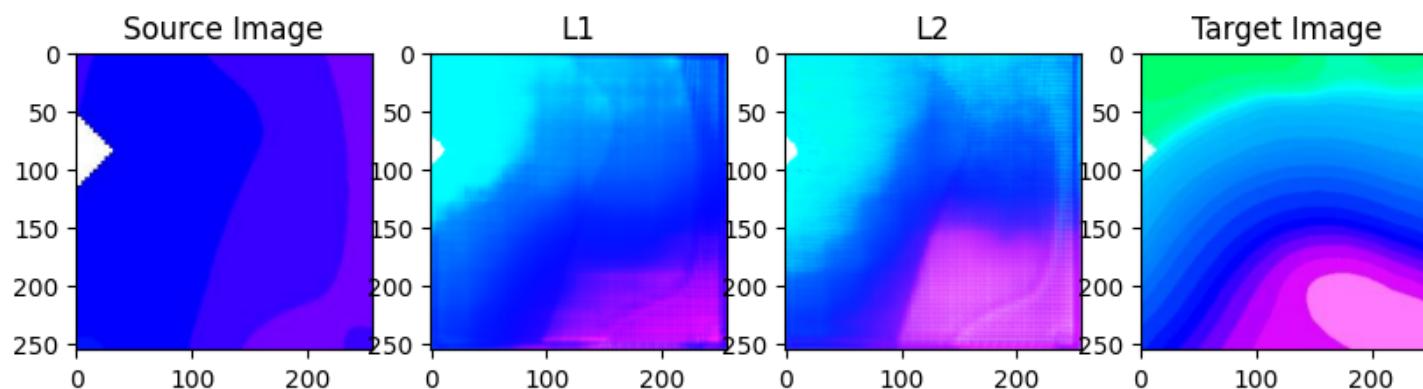
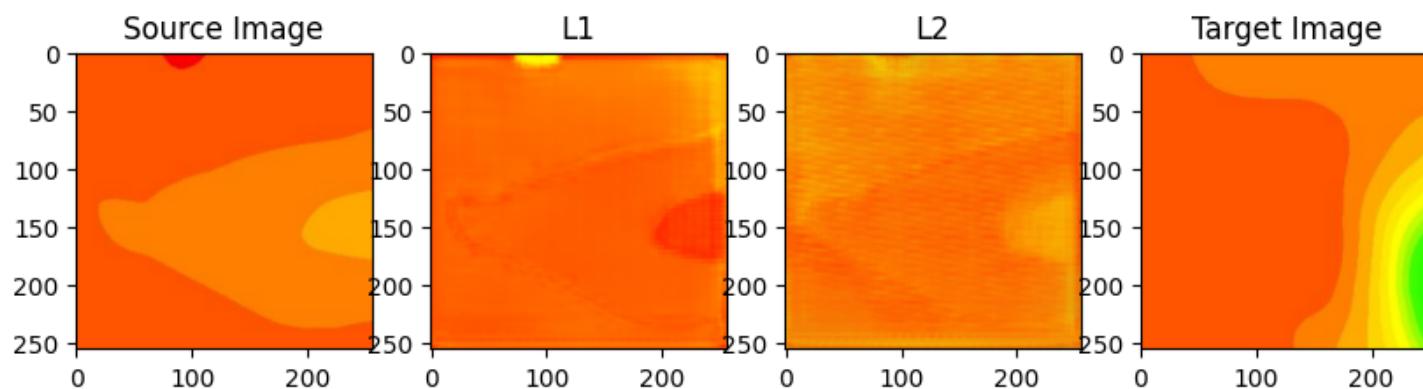
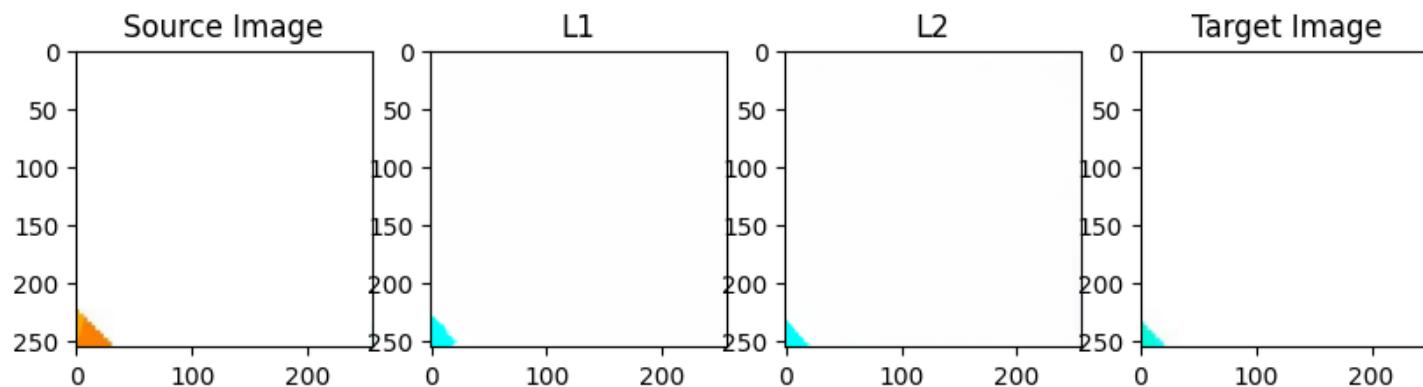
```
1/1 [=====] - 0s 351ms/step  
1/1 [=====] - 0s 336ms/step
```



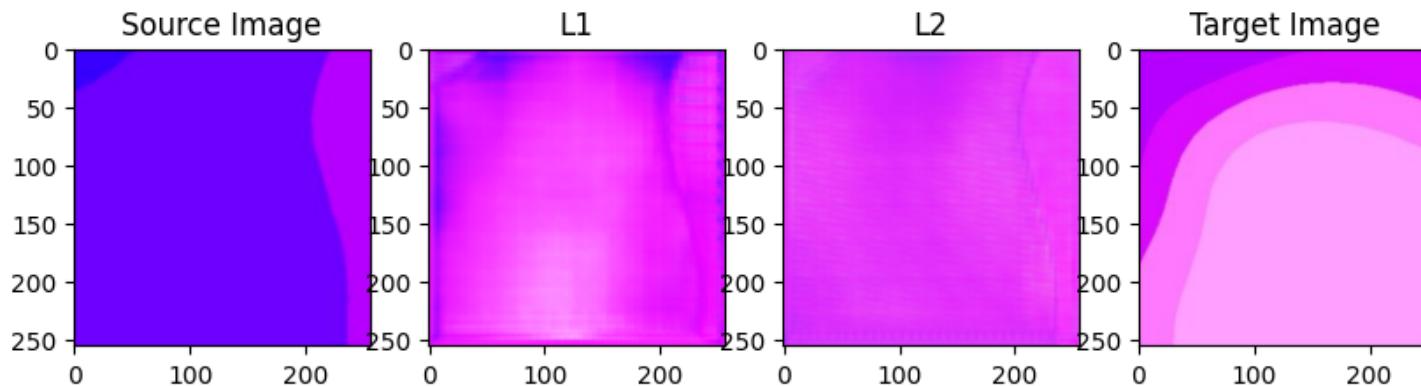
Index: 64

```
1/1 [=====] - 0s 465ms/step  
1/1 [=====] - 0s 480ms/step
```





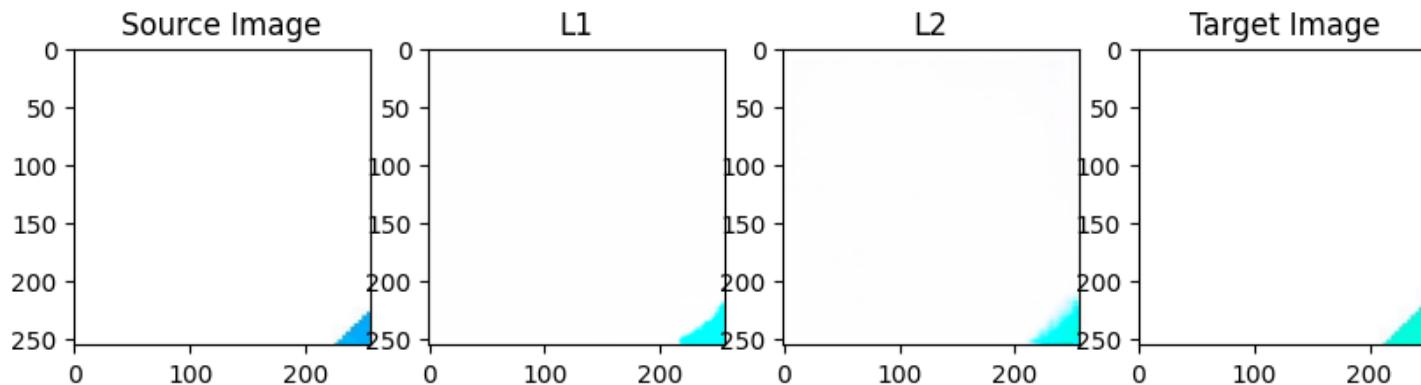
1/1 [=====] - 0s 360ms/step



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1/1 [=====] - 0s 336ms/step

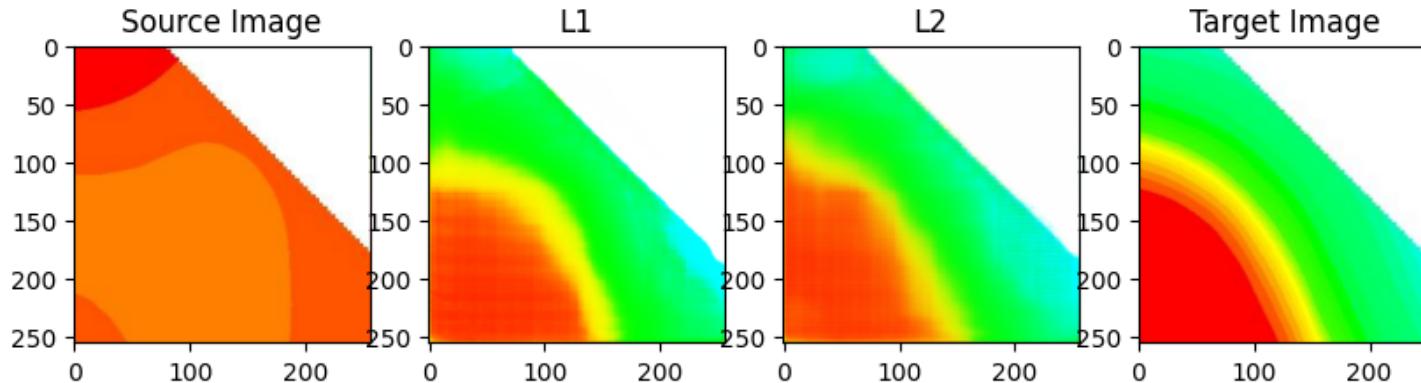
1/1 [=====] - 0s 346ms/step



Index: 72

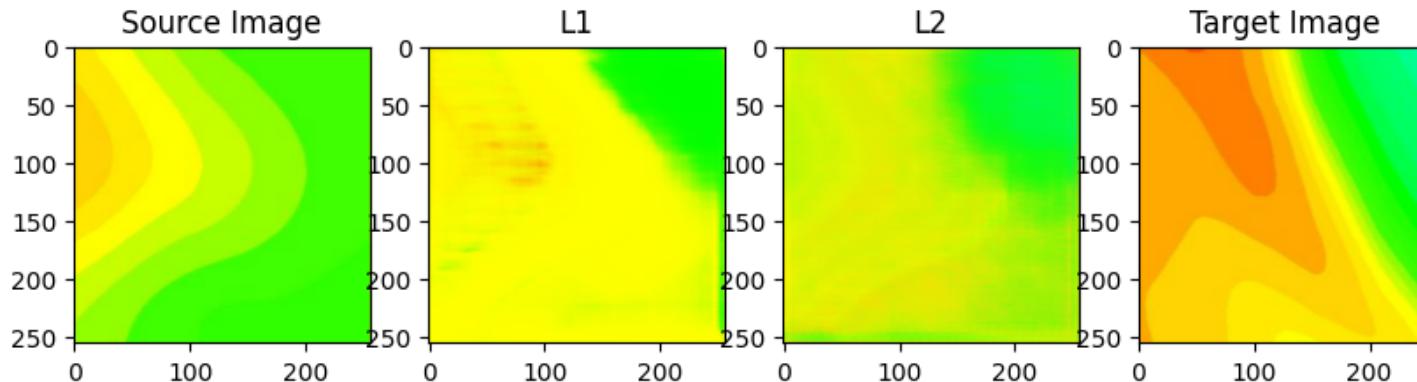
1/1 [=====] - 1s 539ms/step

1/1 [=====] - 0s 349ms/step



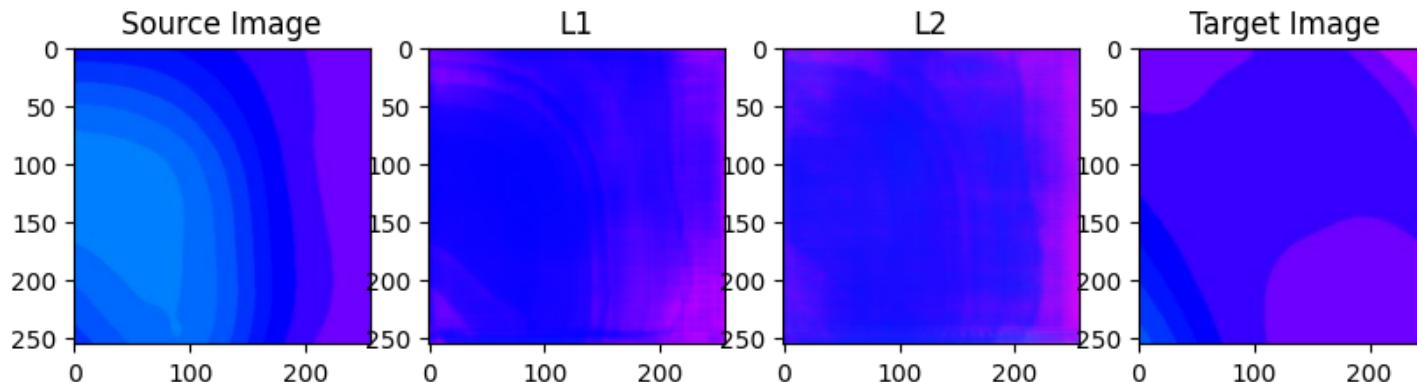
Index: 73

```
1/1 [=====] - 0s 334ms/step  
1/1 [=====] - 0s 330ms/step
```



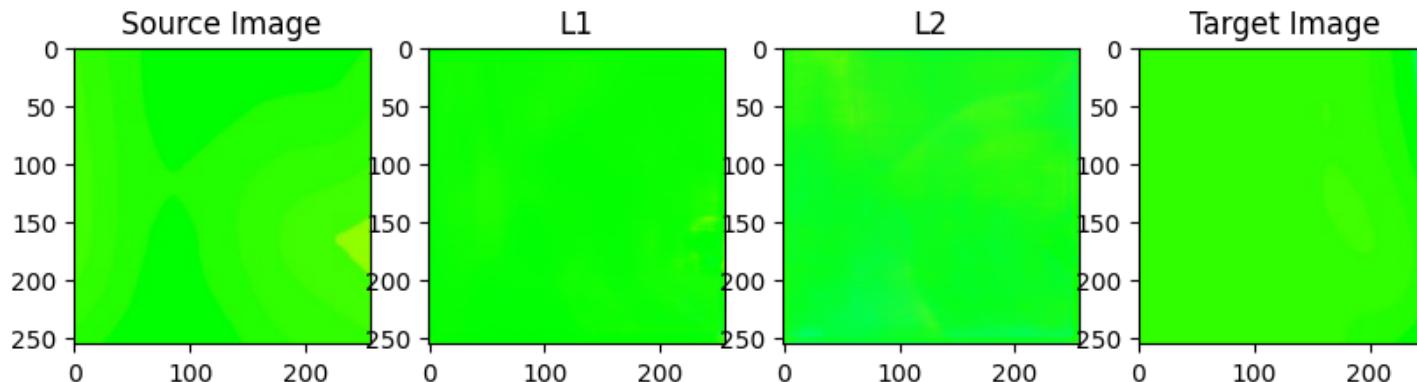
Index: 74

```
1/1 [=====] - 0s 351ms/step  
1/1 [=====] - 0s 363ms/step
```



Index: 75

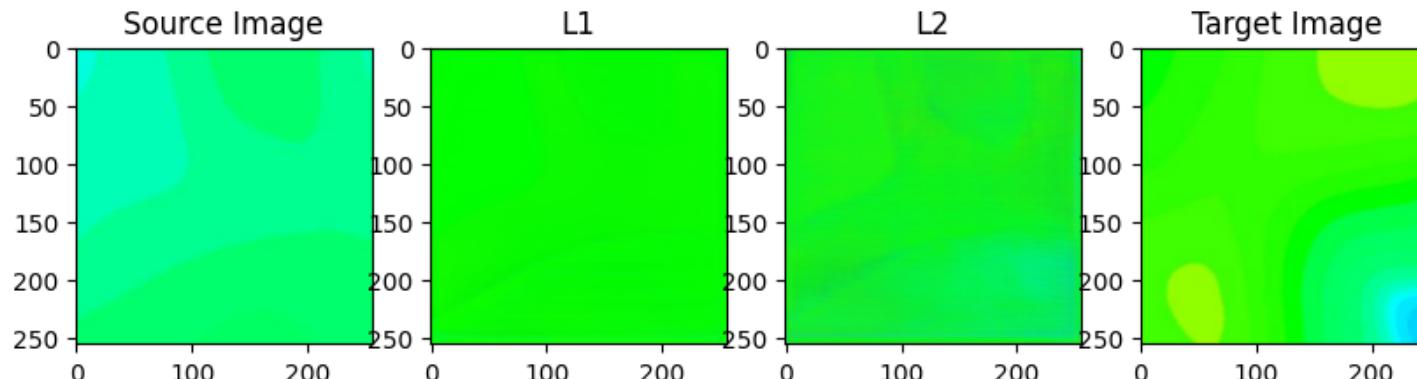
```
1/1 [=====] - 0s 362ms/step  
1/1 [=====] - 0s 361ms/step
```



Index: 76

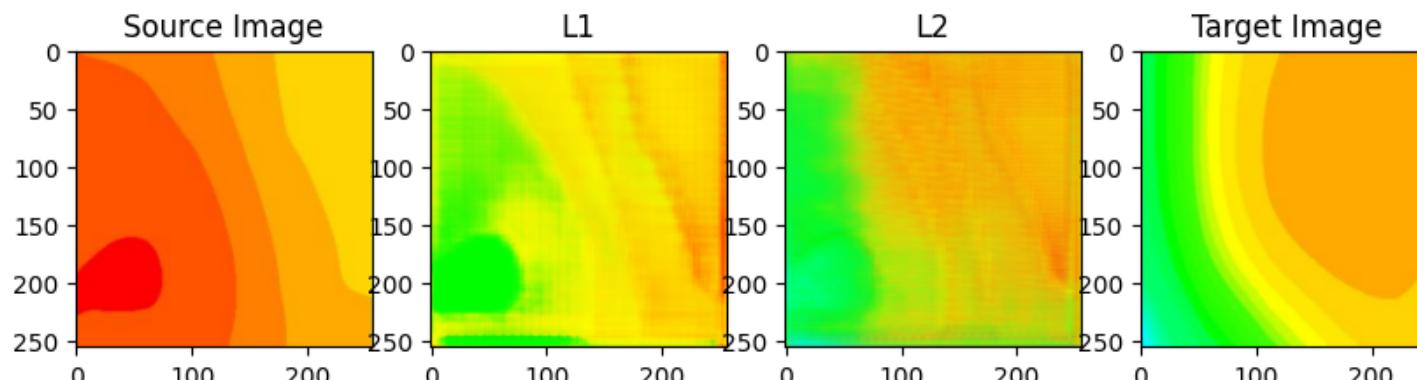
Index: 76

```
1/1 [=====] - 0s 389ms/step  
1/1 [=====] - 0s 358ms/step
```



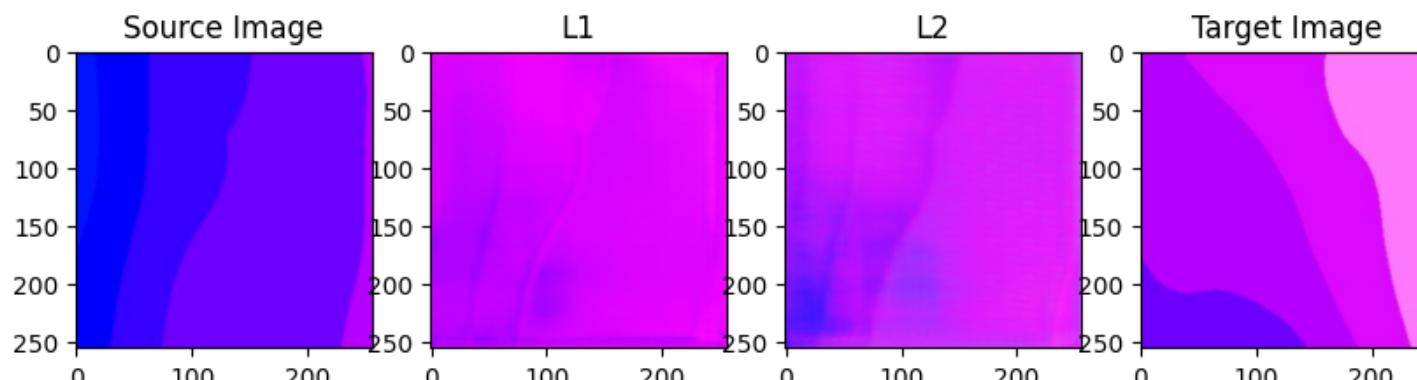
Index: 77

```
1/1 [=====] - 0s 346ms/step  
1/1 [=====] - 0s 347ms/step
```



Index: 78

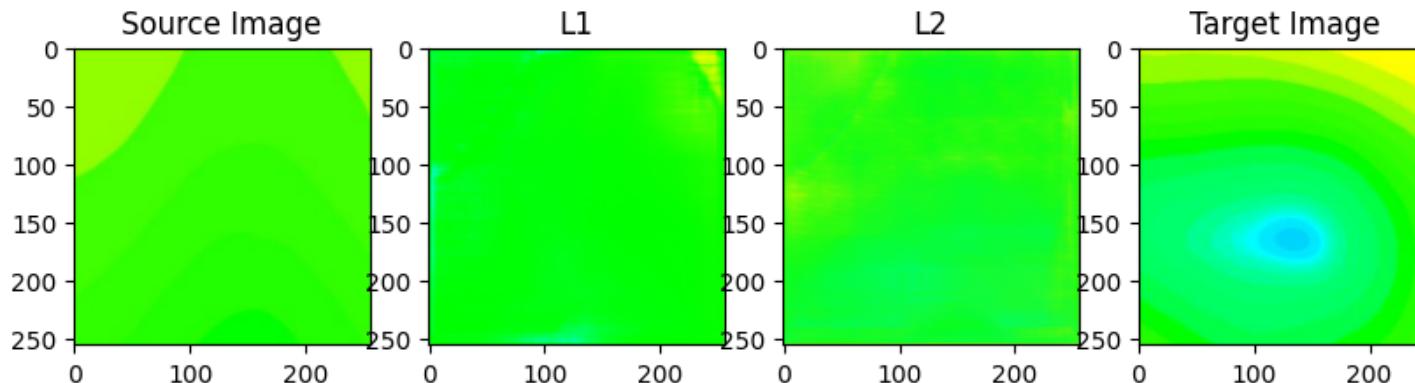
```
1/1 [=====] - 0s 351ms/step  
1/1 [=====] - 0s 359ms/step
```



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1/1 [=====] - 1s 529ms/step

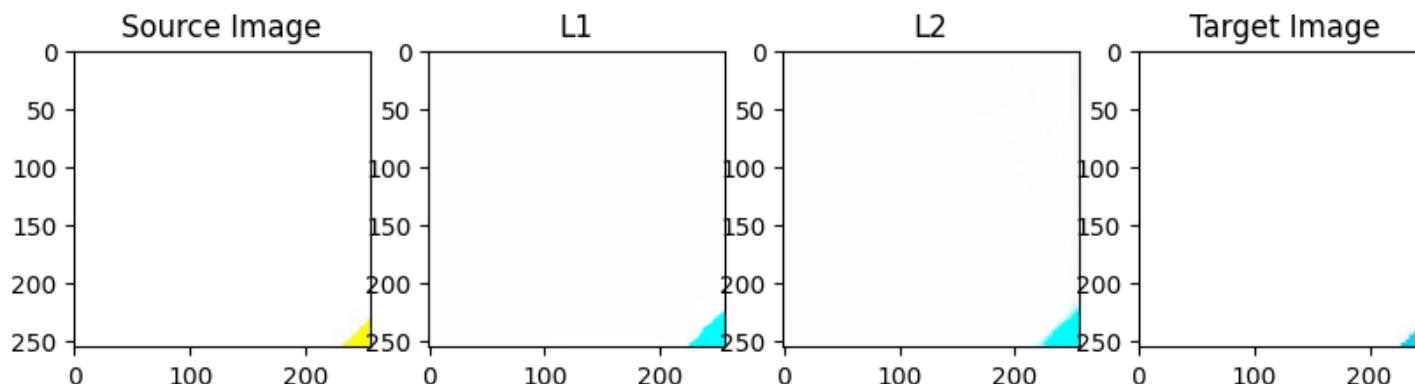
1/1 [=====] - 1s 543ms/step



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1/1 [=====] - 0s 350ms/step

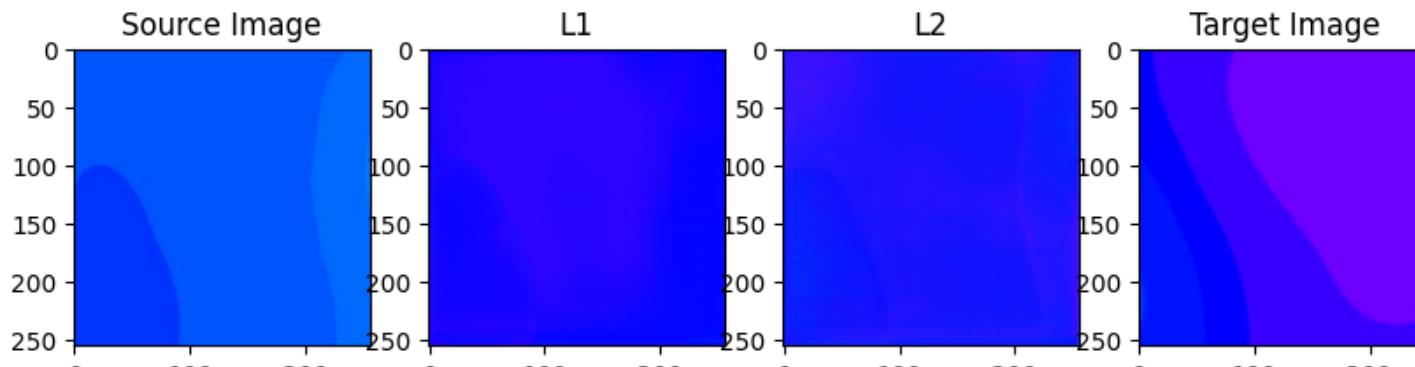
1/1 [=====] - 0s 349ms/step



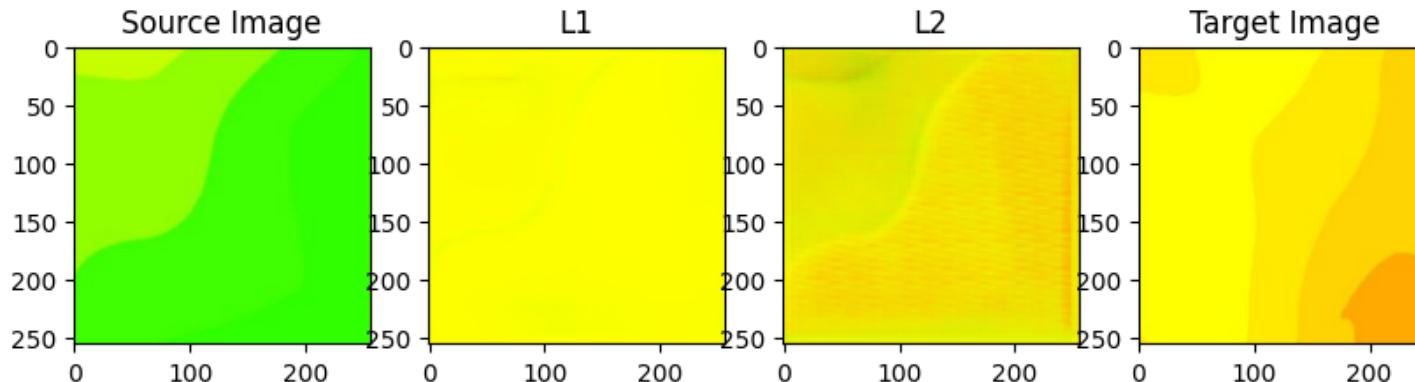
Index: 81

1/1 [=====] - 0s 341ms/step

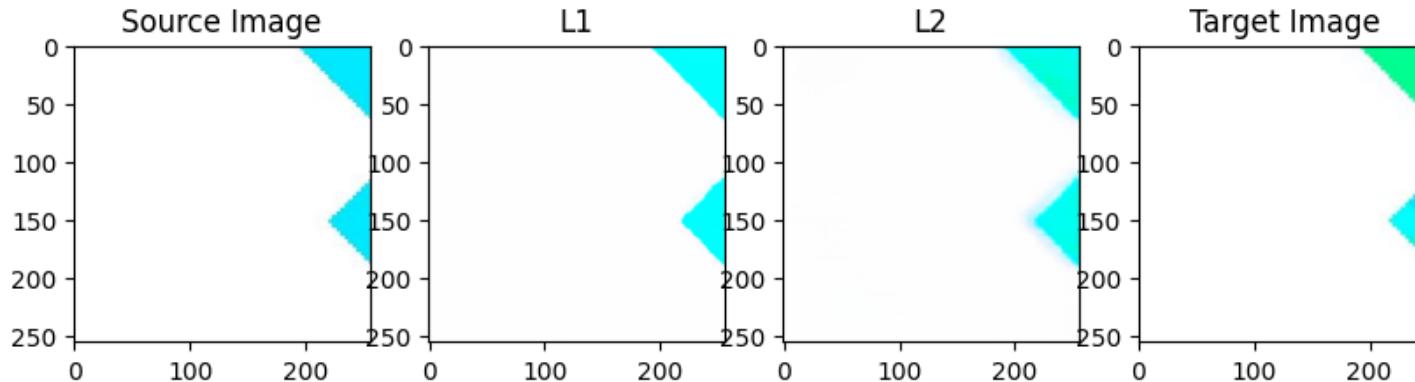
1/1 [=====] - 0s 358ms/step



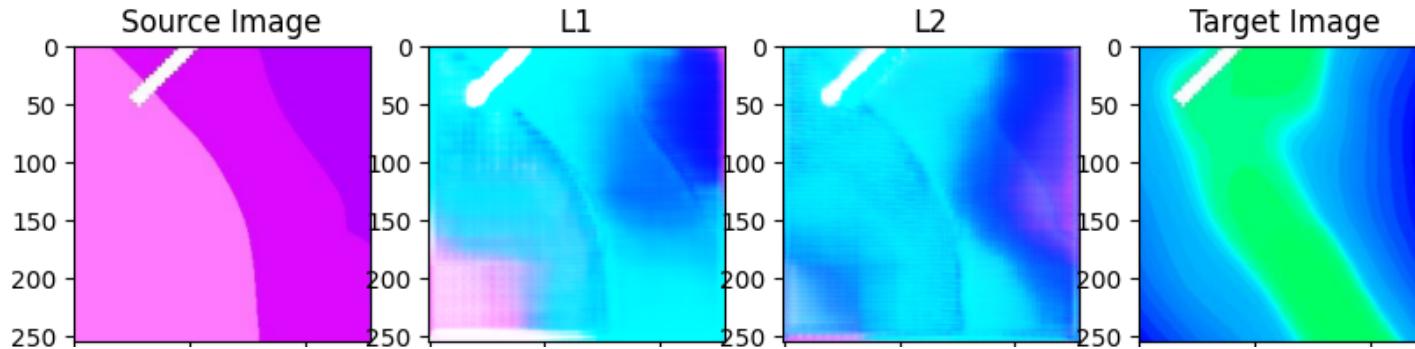
Index: 82

1/1 [=====] - 0s 380ms/step
1/1 [=====] - 0s 354ms/step

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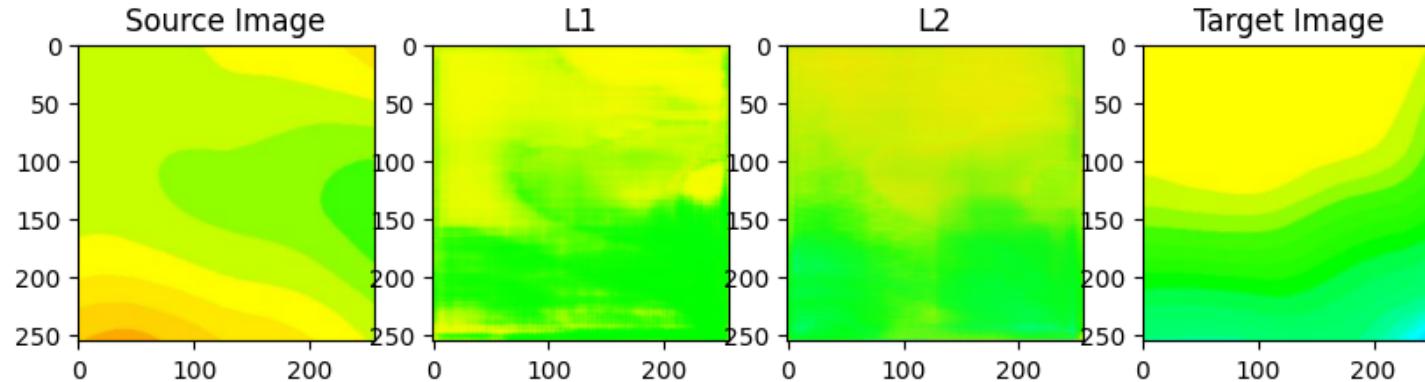
1/1 [=====] - 0s 383ms/step
1/1 [=====] - 0s 361ms/step

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1/1 [=====] - 0s 377ms/step
1/1 [=====] - 0s 364ms/step

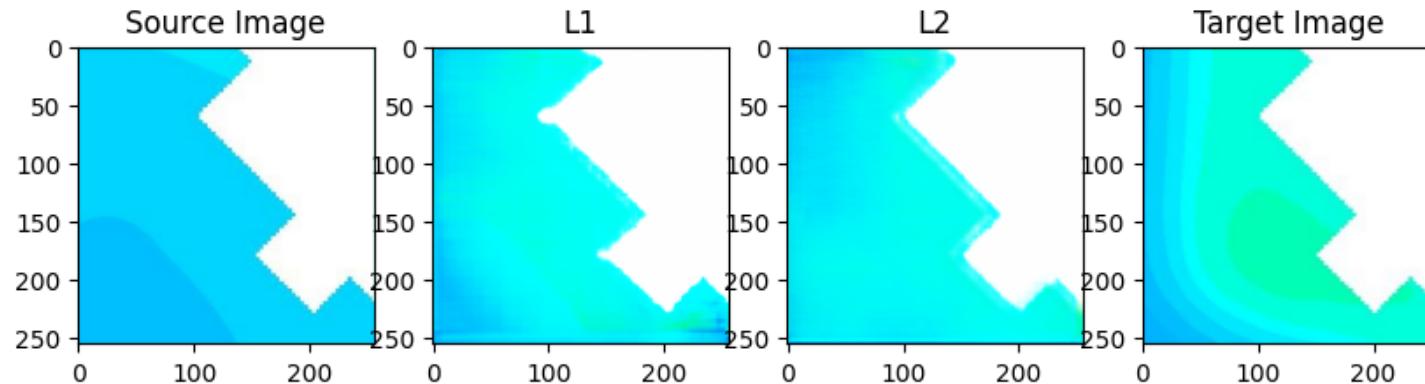
Index: 85

```
1/1 [=====] - 0s 343ms/step  
1/1 [=====] - 0s 332ms/step
```



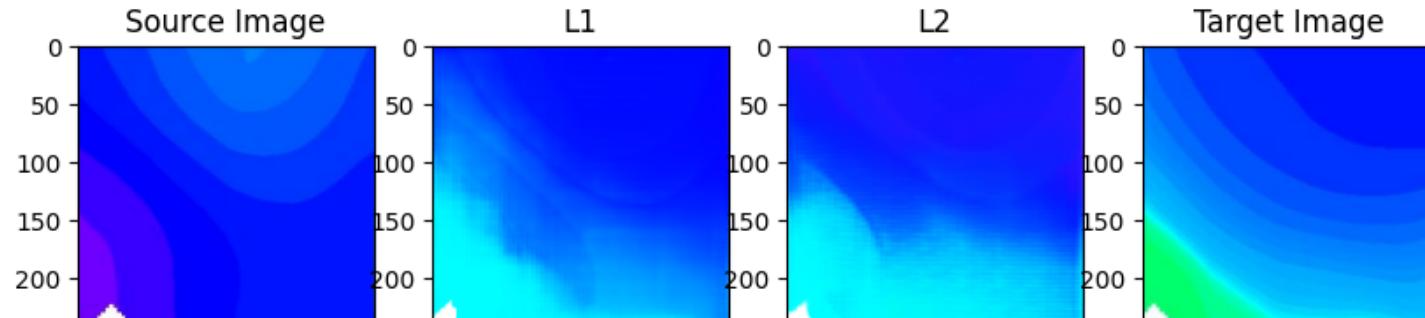
Index: 86

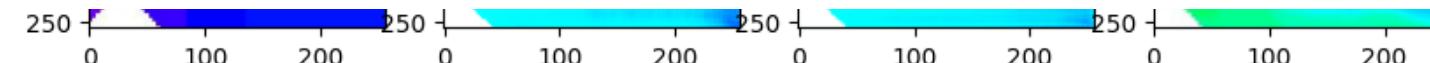
```
1/1 [=====] - 0s 474ms/step  
1/1 [=====] - 0s 477ms/step
```



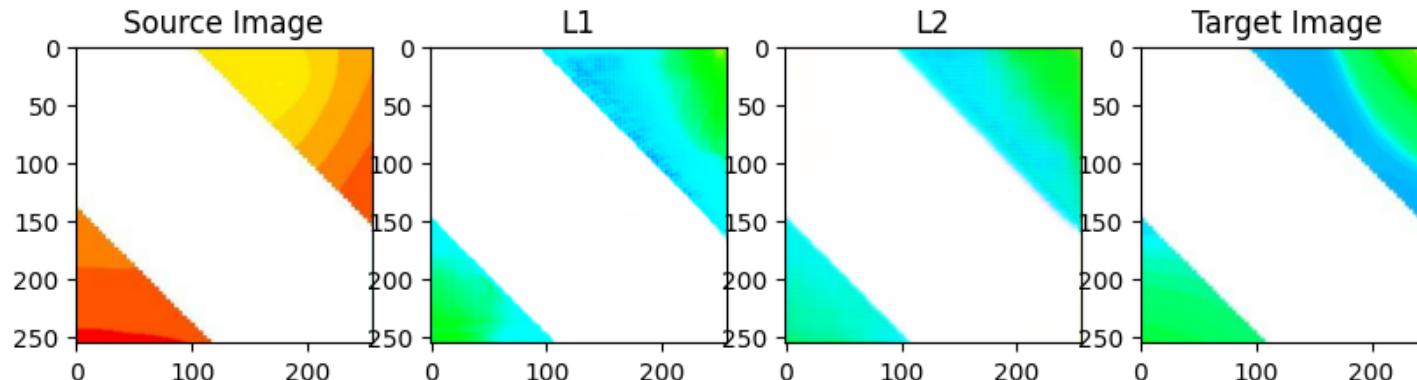
Index: 87

```
1/1 [=====] - 0s 370ms/step  
1/1 [=====] - 0s 362ms/step
```

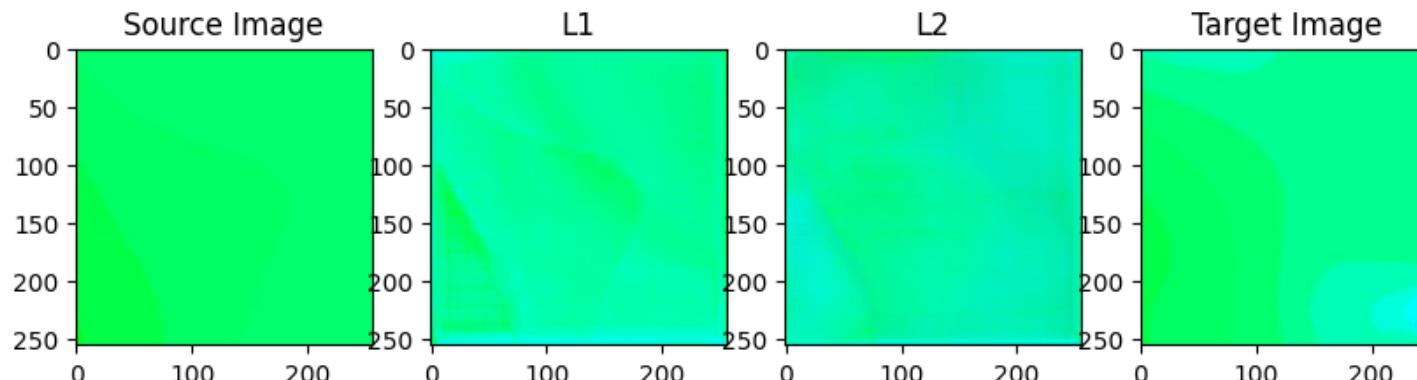




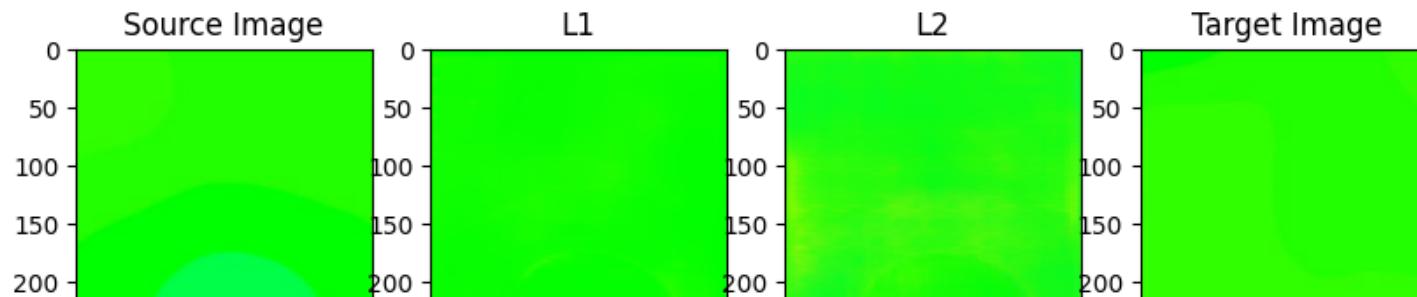
Index: 88

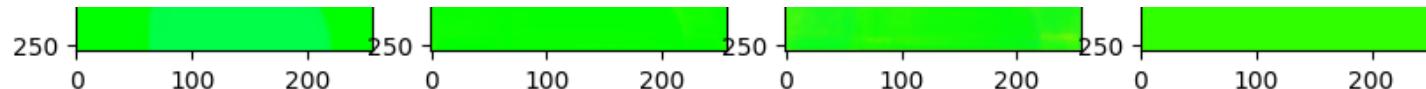
1/1 [=====] - 0s 376ms/step
1/1 [=====] - 0s 358ms/step

Index: 89

1/1 [=====] - 0s 362ms/step
1/1 [=====] - 0s 343ms/step

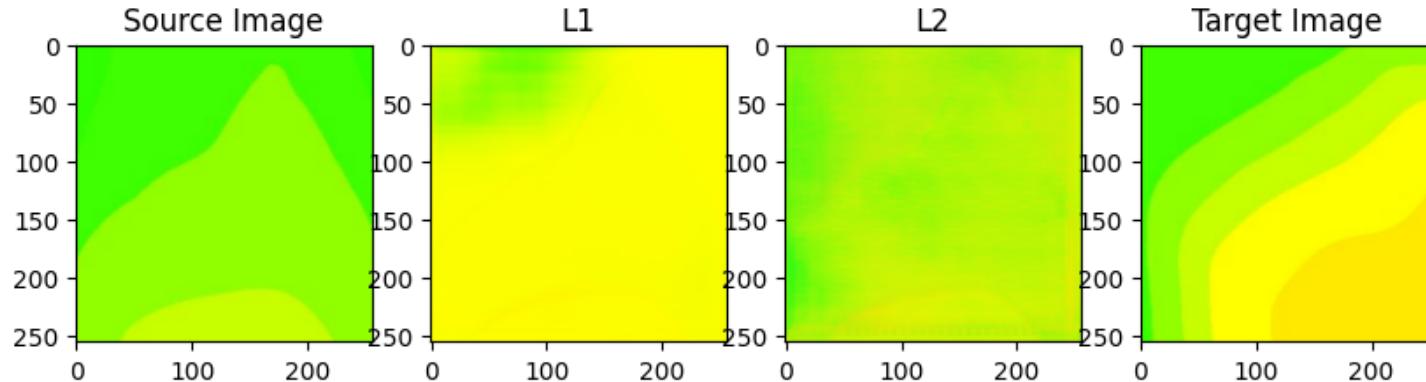
Index: 90

1/1 [=====] - 0s 363ms/step
1/1 [=====] - 0s 350ms/step



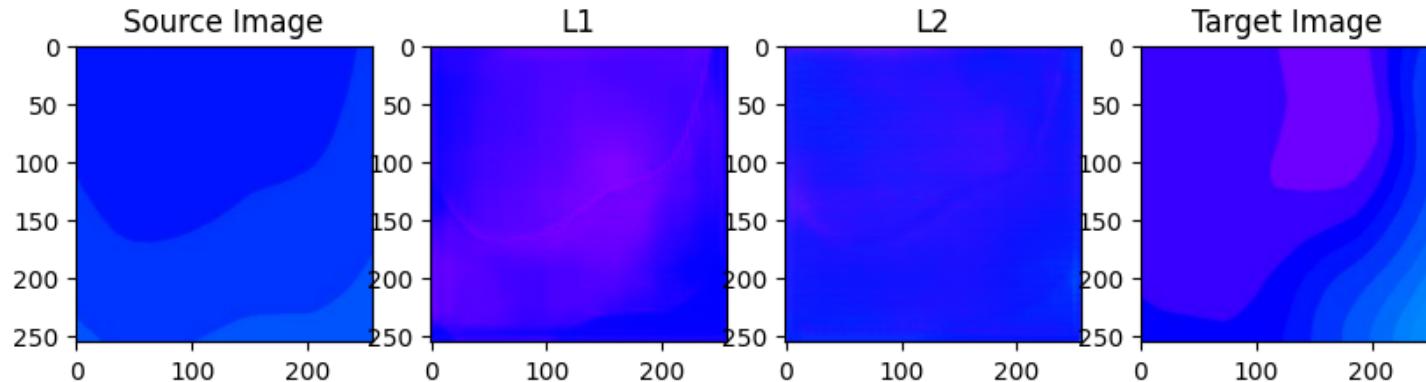
Index: 91

1/1 [=====] - 0s 334ms/step
1/1 [=====] - 0s 345ms/step



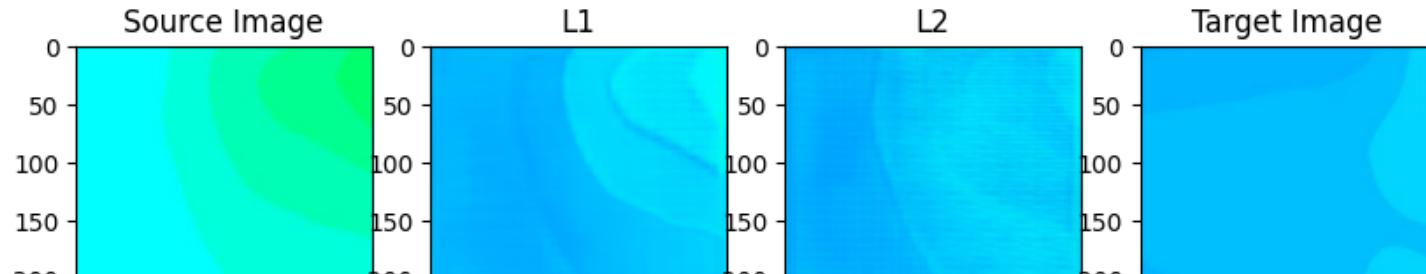
Index: 92

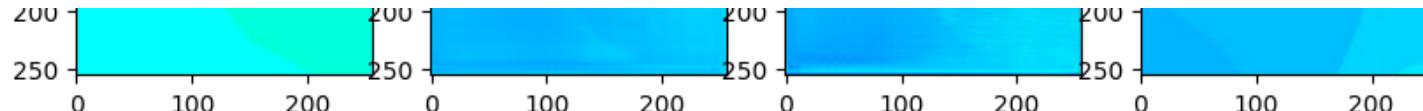
1/1 [=====] - 0s 366ms/step
1/1 [=====] - 0s 351ms/step



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1/1 [=====] - 0s 385ms/step
1/1 [=====] - 0s 363ms/step

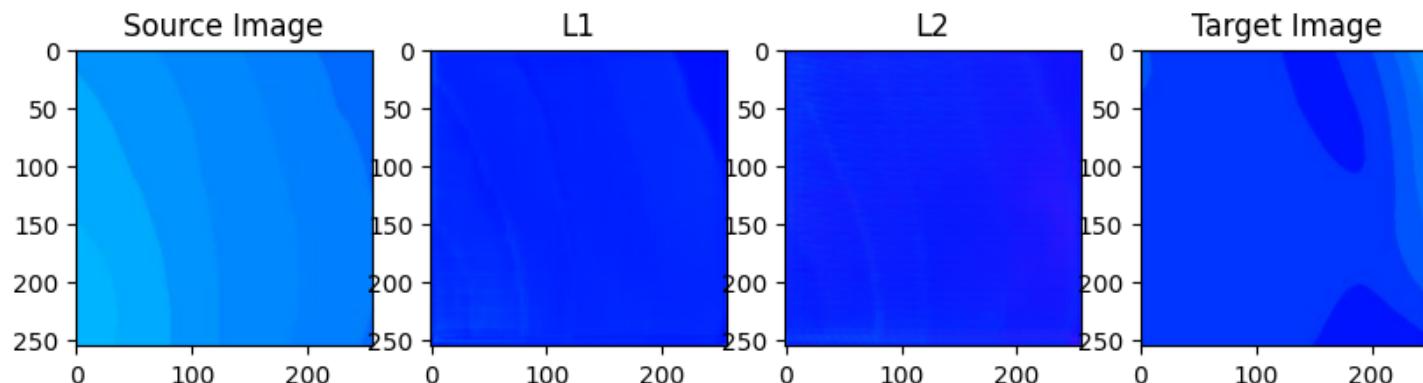




Index: 94

1/1 [=====] - 0s 441ms/step

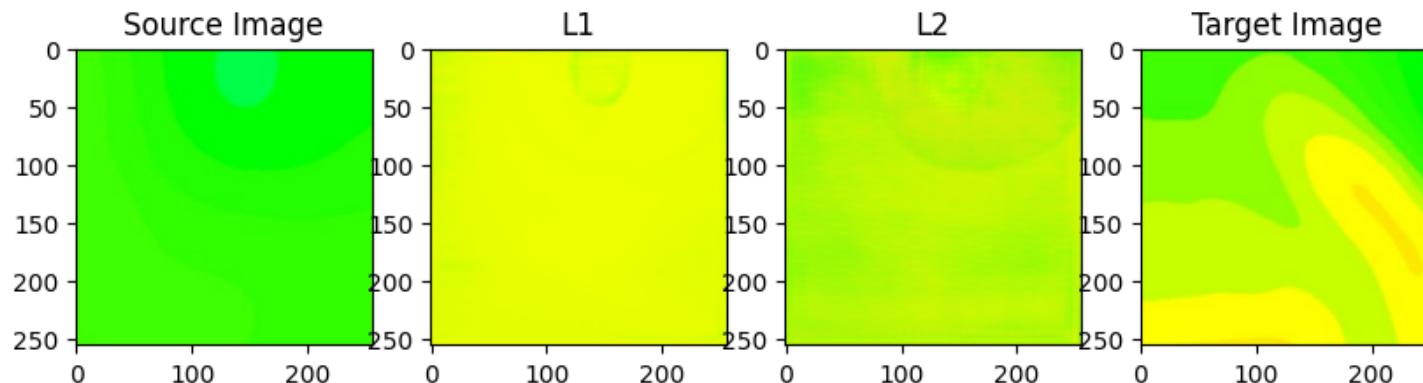
1/1 [=====] - 0s 350ms/step



Index: 95

1/1 [=====] - 0s 343ms/step

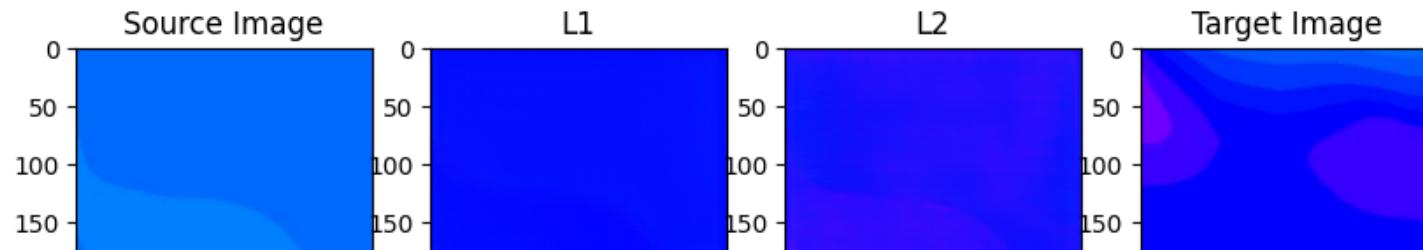
1/1 [=====] - 0s 359ms/step

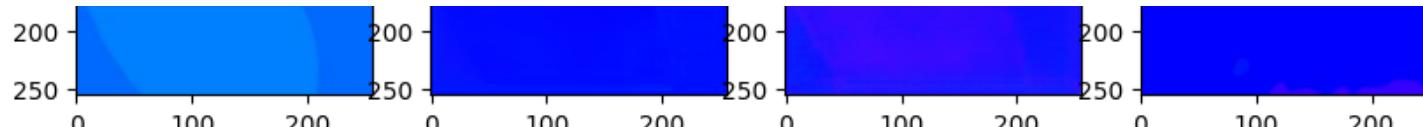


Index: 96

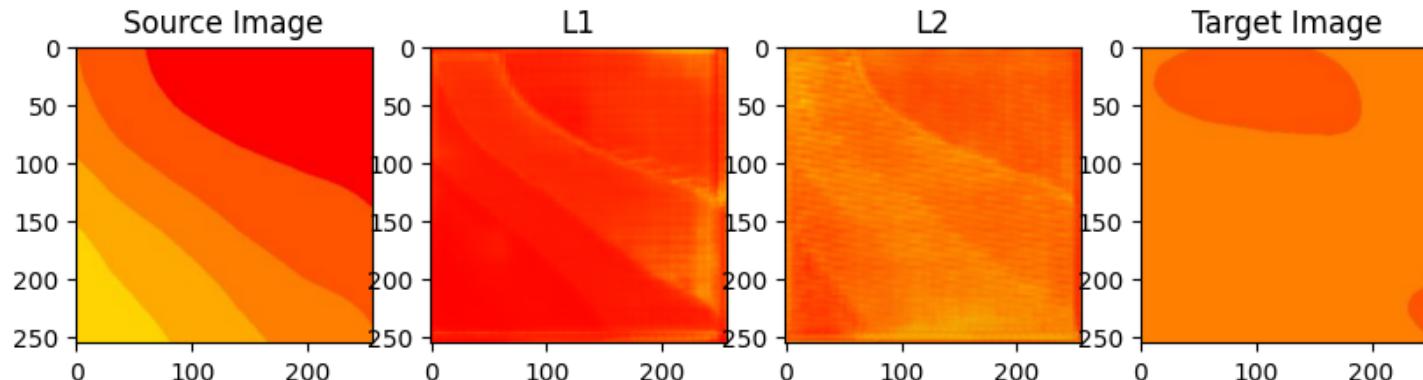
1/1 [=====] - 0s 340ms/step

1/1 [=====] - 0s 364ms/step

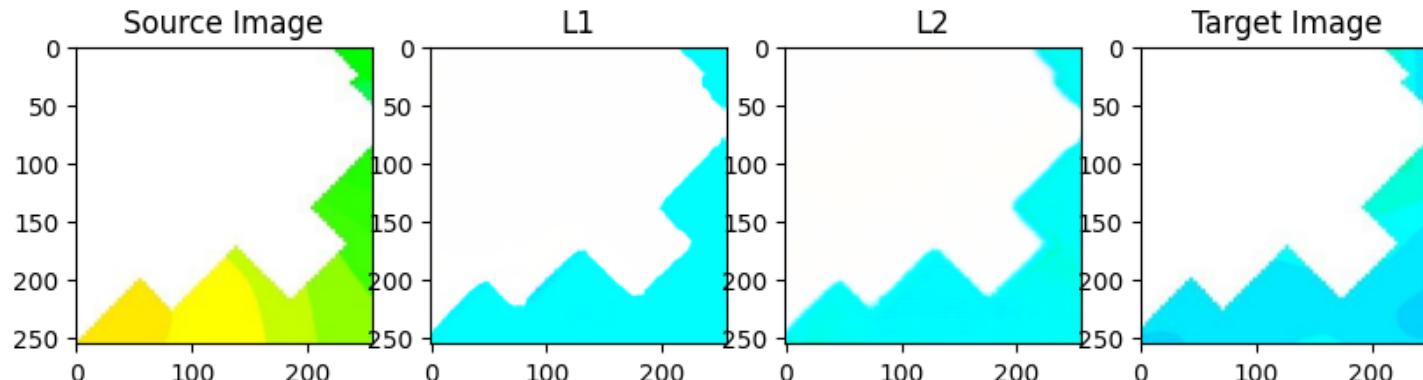




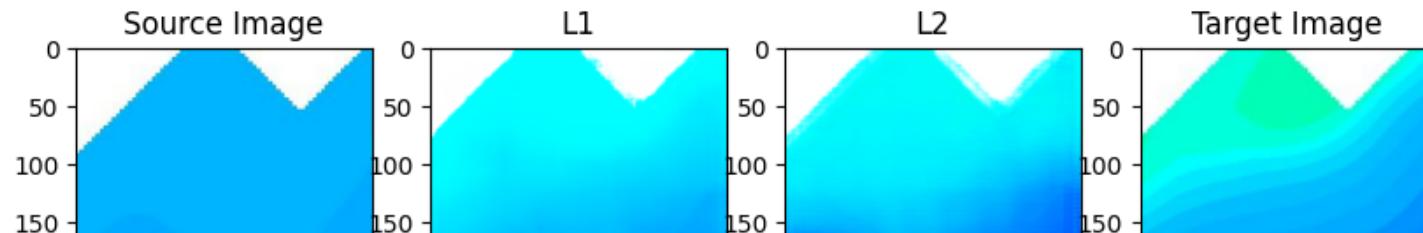
Index: 97

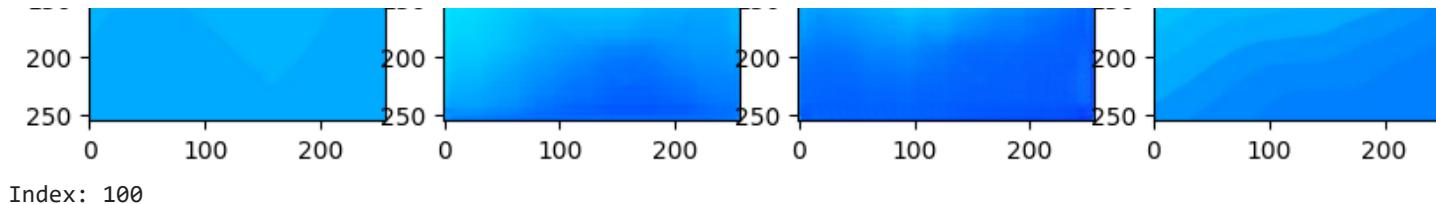
1/1 [=====] - 0s 364ms/step
1/1 [=====] - 0s 359ms/step

Index: 98

1/1 [=====] - 0s 374ms/step
1/1 [=====] - 0s 371ms/step

Index: 99

1/1 [=====] - 0s 345ms/step
1/1 [=====] - 0s 364ms/step



```
images_directory = "/content/drive/MyDrive/kaggle/l2learning/output_concatenated7"
```

```
from keras.models import load_model
from matplotlib import pyplot
import numpy as np
from skimage.metrics import peak_signal_noise_ratio, structural_similarity
from sklearn.metrics import accuracy_score, jaccard_score
from sklearn.metrics import confusion_matrix, accuracy_score
# Load the trained model
model = load_model('/content/drive/MyDrive/kaggle/l2learning/Giorgis_2/kaggle/working/model_109120.h5')
[X1, X2] = dataset
```

WARNING:tensorflow:No training configuration found in the save file, so the model was *not* compiled. Compile it manually.

```
# Select the source image and target image based on the input index
src_image = X1[input_index]
tar_image = X2[input_index]
```